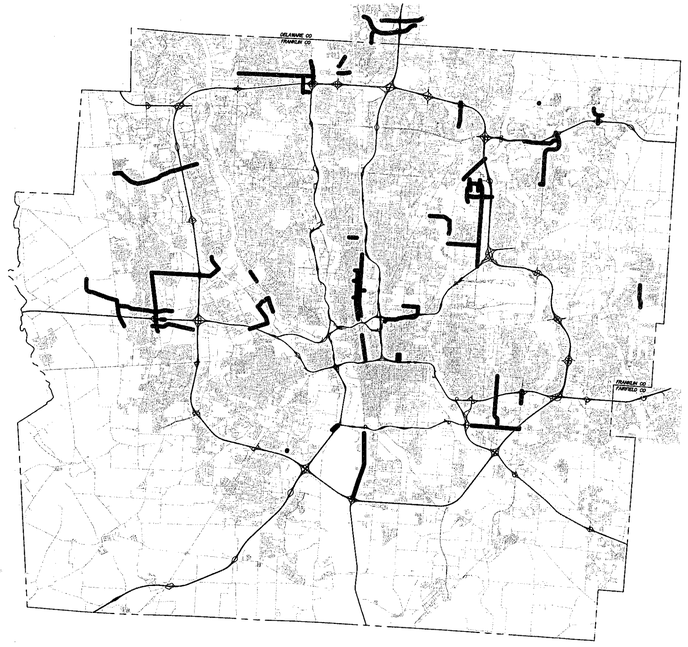


LOCATION MAP

■ – PROJECT AREA

P.O.B. = LATITUDE: 40° 06' 54" N LONGITUDE: 82° 59' 34" W

SCALE IN MILES

0 1 2 3 6 12

Connell R Robertson — 9/7/18
FRANKLIN COUNTY ENGINEER — DATE

W. Eric Crim — 09/07/18
FRANKLIN COUNTY CHIEF DEPUTY ENGINEER — DATE

WE, THE COMMISSIONERS OF FRANKLIN COUNTY IN FORMAL SESSION, HEREBY APPROVE THESE PLANS.

Kevin L. Boyce
COUNTY COMMISSIONER — DATE

Marilyn Brown
COUNTY COMMISSIONER — DATE

John O'Grady — 9/11/18
COUNTY COMMISSIONER — DATE

UTILITY LEGENDS ON PLAN SHEETS REFERENCE CITY OF COLUMBUS UTILITIES ONLY

HNTB
88 East Broad Street, Suite 1600
Columbus, Ohio 43215

Matthew J. Graf — 9/16/18
REGISTERED ENGINEER — DATE

STATE OF OHIO · MATTHEW J. GRAF · E-73963 · REGISTERED PROFESSIONAL ENGINEER

CITY OF COLUMBUS, OHIO
DEPARTMENT OF PUBLIC SERVICE
DIVISION OF DESIGN AND CONSTRUCTION

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM (CTSS) PHASE E

FRA–COLUMBUS TRAFFIC SIGNAL SYSTEM–PHASE E

STUDY AREA
SEE SHEET 2 OF 915

VOL. 1 – INTERCONNECT SHEETS 1 TO 307
VOL. 2 – INTERCONNECT SHEETS 308 TO 605
VOL. 3 – COMMUNICATIONS SHEETS 606 TO 915

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SPECIAL PROVISIONS
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM PHASE E SPECIAL PROVISIONS

CITY OF COLUMBUS STANDARD CONSTRUCTION DRAWINGS				
1441 (12/01/14)	1500 (09/15/15)	1510 (09/15/15)	1511 (09/15/15)	1520 (09/15/15)
1530 (09/15/15)	1540 (09/15/15)	1550 (09/15/15)	2000 (03/30/18)	2020 (03/30/18)
2160 (04/30/18)	2161 (04/30/18)	2179 (04/30/18)	2201 (04/30/18)	2300 (04/30/18)
2319 (03/30/18)	2331 (04/30/18)	4000 (08/10/17)	4001 (08/01/15)	4002 (05/01/14)
4020 (05/01/14)	4021 (08/10/17)	4022 (08/10/17)	4023 (08/10/17)	4110 (08/10/17)
4111 (08/10/17)	4122 (05/01/14)	4160 (02/14/18)	4162 (08/10/17)	4170 (08/10/17)
4330 (08/10/17)	4331 (05/01/14)	---------	---------	---------

ODOT STANDARD CONSTRUCTION DRAWINGS			
HL 30.11	(07/20/18)	MT 95.61	(07/19/13)
HL 30.21	(01/17/14)	MT 97.10	(07/18/14)
HL 30.22	(01/17/14)	MT 105.10	(07/19/13)
MT 95.30	(07/21/17)	TC 21.20	(07/20/18)
MT 95.31	(07/21/17)	TC 81.10	(07/15/16)
MT 95.32	(07/21/17)	TC 84.20	(10/18/13)
MT 95.50	(07/21/17)	TC 84.21	(10/18/13)
MT 95.60	(07/19/13)	ITS 14.11	(07/17/15)

ODOT SUPPLEMENTAL SPECIFICATIONS	
SS–800	(07/21/17)
SS–804	(01/20/17)
SS–809	(07/21/17)
SS–815	(01/19/07)
SS–904	(07/15/16)
SS–906	(10/15/10)

COLUMBUS SUPPLEMENTAL SPECIFICATIONS	
1100	(11/01/17)
1551	(03/01/04)
1611	(02/01/13)
1630	(11/13/09)

PROJECT DESCRIPTION

THE CTSS PHASE PROJECTS MIGRATE THE EXISTING COLUMBUS TRAFFIC SIGNAL SYSTEM TO AN OPEN ARCHITECTURE THAT WILL SERVE CENTRAL OHIO STAKEHOLDERS WITH REGIONAL SYSTEM CONNECTIVITY AND INTEROPERABILITY. PHASE E WILL UPGRADE SIGNAL AND COMMUNICATIONS INFRASTRUCTURE THAT WILL INTERCONNECT 213 SIGNALIZED INTERSECTIONS AND 9 PROPOSED COMMUNICATIONS NODE SITES WITH THE UPDATED CTSS CENTRAL SOFTWARE AND TRAFFIC MANAGEMENT CENTER.

EARTH DISTURBED AREA

TOTAL ESTIMATED DISTURBED AREA: N/A (IMPERVIOUS AREA UNCHANGED)
PRE–CONSTRUCTION IMPERVIOUS AREA : N/A (IMPERVIOUS AREA UNCHANGED)
POST–CONSTRUCTION IMPERVIOUS AREA: N/A (IMPERVIOUS AREA UNCHANGED)

THIS PROJECT IS CONSIDERED A LINEAR CONSTRUCTION PROJECT, WHICH DOES NOT RESULT IN THE INSTALLATION OF ADDITIONAL IMPERVIOUS SURFACE AND THEREFORE IS NOT REQUIRED TO PROVIDE STORMWATER QUANTITY CONTROL PER THE SWDM. NO FILL WILL BE ADDED IN THE 100–YEAR FLOODPLAIN.

2012 SPECIFICATIONS

THE CITY OF COLUMBUS CONSTRUCTION AND MATERIALS SPECIFICATIONS (CMSC), 2012 EDITION INCLUDING ALL REVISIONS AND SUPPLEMENTS THERETO, SHALL GOVERN ALL CONSTRUCTION ITEMS THAT ARE A PART OF THIS PLAN UNLESS NOTED OTHERWISE.

Steven Kinney — 9/11/18
DESIGN SECTION ENGINEER, DIVISION OF DESIGN AND CONSTRUCTION — DATE

Sam B. Hill for Patricia Austin — 10-2-18
ADMINISTRATOR, DIVISION OF POWER — DATE

MDT for JA — 10-3-18
ADMINISTRATOR, DIVISION OF SEWERAGE AND DRAINAGE — DATE

for RC — 10/5/18
ADMINISTRATOR, DIVISION OF WATER — DATE

Gracie Davis by my mark — 10.5.2018
DIRECTOR, DEPARTMENT OF PUBLIC UTILITIES — DATE

C182 — 9/27/18
FIRE PREVENTION BUREAU, DIVISION OF FIRE — DATE

Daniel Joyce — 9/27/18
ENGINEERING SUPERVISOR, DEPARTMENT OF TECHNOLOGY — DATE

Tony Collins by Kelly — 9/27/18
DIRECTOR, DEPARTMENT OF RECREATION AND PARKS — DATE

Dan Day by tkp — 10/8/18
CITY ENGINEER/ADMINISTRATOR, DIVISION OF DESIGN AND CONSTRUCTION — DATE

Monnie J. Gallo — 10-9-18
DIRECTOR, DEPARTMENT OF PUBLIC SERVICE — DATE

REV NO	REVISION DESCRIPTION	SHEET(S)	INITIAL	DATE
1	UPDATED EXISTING EASEMENTS, NOTES, QUANTITIES, AND SPLICING	SEE Δ BELOW	JDY	11-7-18

Δ 2,26,32-34,36-37,88-90,94,152-153,156,165,173,180,189,191,248,309,328,329-330,390-392,394-395 397-398,401,486,527,533,545,563-564,607,611,614,638,639-641,649,667-670

OHIO Utilities Protection SERVICE
Call Before You Dig
800-362-2764 or 8-1-1
www.oups.org

3378-E

FEDERAL PROJECT NUMBER E150(399)

CIP: 540007–100012
PID NUMBER: 99733

TITLE SHEET

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM (CTSS) PHASE E – FINAL SUBMITTAL

1
915

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Legend

- Columbus Signal
- Franklin County Signal
- Wireless Signal
- Wireless Link
- Phase E 144 SMF Interconnect
- Existing 288 SMF Backbone
- Proposed 288 SMF Backbone
- Existing Phase Comm Node
- Proposed Phase E Comm Node
- Future Phase Comm Node

POWELL RD
GEMINI PKWY
POLARIS PKWY
SMOKY ROW RD
PARK RD
SANCUS BLVD
E CAMPUS VIEW BLVD
WORTHINGTON RD
WESTERVILLE
SMOTHERS RD
S SPRING RD
SUNBURY RD
HARLEM RD
CENTRAL COLLEGE RD
WARNER RD
ULRY RD
HARD RD
SNOUFFER RD
WORTHINGTON
DUBLIN
DUBLIN-GRANVILLE RD
MINERVA PARK
SAWMILL RD
GLENWORTH RD
N HIGH ST
COSGRAY RD
AVERY RD
HAYDEN RUN RD
BETHEL RD
MORSE RD
THOMPSON RD
HENDERSON RD
LEPPERT RD
HILLIARD
UPPER ARLINGTON
WESTERVILLE RD
EASTON WAY
INNIS RD
MCCUTCHEON RD
HAMILTON RD
SCIOTO DARBY CREEK RD
WEBER RD
AGLER RD
GAHANNA
ALTON DARBY CREEK RD
KENNY RD
TREMONT RD
RIVERSIDE DR
STELZER RD
CASSADY AVE
ROBERTS RD
DUBLIN RD
TRABUE RD
MCKINLEY AVE
CLEVELAND AVE
JOYCE AVE
WOODLAND AVE
WALKER RD
RENNER RD
HILLIARD ROME RD
W FIFTH AVE
E FIFTH AVE
GRANDVIEW HEIGHTS
BEXLEY
E BROAD ST
Franklin County Engineer WMF
FCEO
LONG ST
VALLEYVIEW
WHITEHALL
REYNOLDSBURG
LINCOLN VILLAGE
W BROAD ST
MOUND ST
FULTON ST
E MAIN ST
E LIVINGSTON AVE
OHIO AVE
CHAMPION AVE
SULLIVANT AVE
HALL RD
CLIME RD
HIGH ST
COURTRIGHT RD
TUSSING RD
REFUGEE RD
HINES RD
NORTON RD
HARRISBURG PIKE
GANTZ RD
HARDY PKWY ST
ALKIRE RD
DYER RD
PARSONS AVE
WILLIAMS RD
BRICE RD
WINCHESTER PIKE
HAMILTON RD
OBETZ RD
GROVE CITY
OBETZ
PICKERINGTON
Franklin County Engineer EMF
RATHMELL RD
GROVEPORT RD
HIGH ST
GROVEPORT
LONDON GROVEPORT RD
ROWE RD

1 REVISION 1.0 11-02-2018

3378-E

NOT TO SCALE

CIP: 540007 - 100012
PID NUMBER: 99733

COMMUNICATIONS OVERVIEW MAP

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

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EXISTING TRAFFIC SYMBOL LEGEND

- SIGNAL HEAD
- TR — EXISTING TRAFFIC CONDUIT
- EXISTING WOODEN UTILITY POLE
- EXISTING OVERHEAD SIGN
- EXISTING STRAIN POLE
- CB — EXISTING SIGNAL CONTROLLER
- PS — EXISTING POWER SUPPLY
- MAST ARM
- RAMP METER, EXISTING
- CONCRETE MEDIAN BARRIER WITHOUT MULTI–CELL CONDUIT
- CCTV — CCTV DEVICE, EXISTING
- BRACKET ARM, EXISTING
- OVERHEAD SIGN STRUCTURE, EXISTING
- DETECTOR LOOP, EXISTING
- DETECTOR STATION, EXISTING
- VDS CABINET, EXISTING
- EXISTING PULL BOXES (18", 24", 30", 36" SQUARE)
- EXISTING PULL BOX (30" x 48" RECTANGULAR DOUBLE DOOR)
- EXISTING PULL BOX (18", 725.06 RECTANGULAR; POLYCONCRETE)
- EXISTING PULL BOXES (27", 32", 48" ROUND)
- EXISTING JUNCTION BOX IN BARRIER WALL
- EXISTING ITS EQUIPMENT CABINET
- E — EXISTING 4' SQUARE VAULT
- EXISTING COMMUNICATION NODE
- EXISTING PEDESTRIAN SIGNAL/CROSSWALK PUSH BUTTON POLE
- PED — PEDESTRIAN CROSSWALK SIGNAL
- AMP — COAXIAL AMPLIFIER CABINET
- VD — EXISTING VIDEO TRAFFIC DETECTOR
- EXISTING FIBER OPTIC CABLE
- TRANSMISSION TOWER
- T — GROUND MOUNTED TRANSFORMER

UTILITY LEGEND

- CATCH BASIN
- CURB INLET
- HYDRANT
- MANHOLE
- C — COMBINED MANHOLE
- D ST — STORM MANHOLE
- S — SANITARY MANHOLE
- W — WATER VALVE
- ST — STORM SEWER
- S — SANITARY SEWER
- CS — COMBINED SEWER
- W — WATER
- E — E — UNDERGROUND ELECTRIC/POWER LINE
- G — G — G — GAS LINE AND VALVE
- P — PETROLEUM TRANSMISSION LINE
- CATV — UNDERGROUND CABLE TV
- CATV — CABLE TV PULL BOX

POWER, LIGHTING AND COMMUNICATIONS LEGEND

- LIGHTING CENTER
- L — LIGHTING CONDUIT
- T — TELECOMMUNICATIONS CONDUIT
- 4 — HIGH MAST LIGHTING TOWERS
- CM T — EXISTING TELECOMMUNICATIONS PULL BOX
- E — EXISTING ELECTRICAL PULL BOX
- LUMINARIES
- UTILITY POLE
- LIGHT POLE
- POWER/LIGHT POLE
- TELEPHONE/POWER POLE
- TELEPHONE POLE
- POWER POLE
- TRANSMISSION POWER POLE
- 1234 — STREET ADDRESS
- GUY WIRE
- GUY ANCHOR

LAND FEATURE LEGEND

- RAILROAD W/ CROSSBUCK FLASHERS AND BARRIER
- LAKES, RIVERS AND STREAMS
- HEADWALL
- UT — EXISTING UNDERGROUND TANKS
- NOISE WALL
- CABLE BARRIER
- GUARDRAIL
- FENCE
- CENTER LINE
- CORPORATION BOUNDARY
- LA RW — RIGHT OF WAY WITH LIMITED ACCESS
- RR R/W — RAILROAD RIGHT OF WAY / PROPERTY LINE
- R/W — RIGHT OF WAY LINE
- WS — WARRANTY DEED FOR SCENIC PURPOSES
- UTILITY EASEMENT
- SH — SH — STANDARD HIGHWAY RIGHT OF WAY EASEMENT
- EDGE OF PAVEMENT
- ROAD DASH STRIPING
- LANE STRIPING
- FLX — FLOODWAY FRINGE BOUNDARY
- FLAE — FLOODWAY ZONE AE BOUNDARY
- FLAG POLE

ABBREVIATIONS

BTW – BETWEEN
CFN – COLUMBUS FIBERNET
CN – CITYNET (HYLAND)
COC – CITY OF COLUMBUS
CONT. – CONTROLLER
CTSS – COLUMBUS TRAFFIC SIGNAL SYSTEM
DOP – DIVISION OF POWER
DOW – DIVISION OF WATER
DOT – DEPARTMENT OF TECHNOLOGY
EA – EACH
EX – EXISTING
FOC – FIBER OPTIC CABLE
FO – FIBER OPTIC
FT – FEET
FV – FIELD VERIFIED
IC – INTERCONNECT
INT – INTERSECTION
ITS – INTELLIGENT TRANSPORTATION SYSTEM
OH – OVERHEAD
PB – PULL BOX
PR – PROPOSED
RU – RACK UNIT
SMF – SINGLE MODE FIBER
STA. – STATION
TR or TRF – TRAFFIC
UG – UNDERGROUND
UNK – UNKNOWN
UT – UNDERGROUND TANKS
W/ – WITH

EXISTING UTILITY POLES

- AEP 1865463 7606536 — AEP POLE WITH XY COORDINATES
- AT&T 1877088 7585521 — AT&T POLE WITH XY COORDINATES
- DOP 760636 — DOP POLE WITH SIX DIGIT ID
- UNK NO ID FV — EXISTING POLE MISSING ID (FIELD VERIFIED)

CONNECTION TYPE

- PC — POLE CLAMP
- SO — STAND OFF
- NC — NO CONTACT

POLE TYPE

- SP — STRAIN POLE
- LP — LIGHT POLE
- MP — MISC. UTILITY POLE

3378-E

CIP: 540007–100012
PID NUMBER: 99733

EXISTING LEGEND & ABBREVIATIONS

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

3
915

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PROPOSED ITS LINETYPES, EXISTING INFRASTRUCTURE

AEF 24 AEF 24 AEF 24	EXISTING AERIAL INTERCONNECT, PROPOSED 24 FIBER OVERLASHED TO EXISTING IC
AEF DROP 24 AEF DROP 24	EXISTING AERIAL INTERCONNECT, PROPOSED 24 FIBER DROP OVERLASHED TO EXISTING IC
AEF 144	EXISTING AERIAL INTERCONNECT, PROPOSED 144 FIBER OVERLASHED TO EXISTING IC
ARF 24 ARF 24 ARF 24	EXISTING AERIAL INTERCONNECT, REPLACE WITH 24 FIBER
ARF DROP 24 ARF DROP 24	EXISTING AERIAL INTERCONNECT, REPLACE WITH 24 FIBER DROP
ARF 144	EXISTING AERIAL INTERCONNECT, REPLACE WITH 144 FIBER
ARP ARP	EXISTING AERIAL POWER, REPLACE WITH PROPOSED POWER CABLE
UE5 UE5	EXISTING UNDERGROUND CONDUIT, PROPOSED CAT 5
UEF 24 UEF 24 UEF 24	EXISTING UNDERGROUND CONDUIT, PROPOSED 24 FIBER
UEF DROP 24 UEF DROP 24	EXISTING UNDERGROUND CONDUIT, PROPOSED 24 FIBER DROP
UEF DROP 72 UEF DROP 72	EXISTING UNDERGROUND CONDUIT, PROPOSED 72 FIBER DROP
UEF 144	EXISTING UNDERGROUND CONDUIT, PROPOSED 144 FIBER
UEF 288	EXISTING UNDERGROUND CONDUIT, PROPOSED 288 FIBER
URF 24 URF 24 URF 24	EXISTING UNDERGROUND CONDUIT, REPLACE EX IC WITH PROPOSED 24 FIBER
URF DROP 24 URF DROP 24	EXISTING UNDERGROUND CONDUIT, REPLACE EX IC WITH PROPOSED 24 FIBER DROP
URF 144	EXISTING UNDERGROUND CONDUIT, REPLACE EX IC WITH PROPOSED 144 FIBER
SEF 144	EXISTING STRUCTURAL CONDUIT, PROPOSED 144 FIBER
SRF 144	EXISTING STRUCTURAL CONDUIT, REPLACE EX IC WITH PROPOSED 144 FIBER
SEF 288	EXISTING STRUCTURAL CONDUIT, PROPOSED 288 FIBER
X X X X	EXISTING INTERCONNECT TO BE REMOVED
EX-IC	EXISTING INTERCONNECT

PROPOSED ITS LINETYPES, PROPOSED INFRASTRUCTURE

AP5 AP5	PROPOSED AERIAL CABLE, PROPOSED CAT 5
APC APC APC APC	PROPOSED AERIAL CABLE, PROPOSED CCTV COMPOSITE CABLE
APF 24 APF 24 APF 24	PROPOSED AERIAL INTERCONNECT, PROPOSED 24 FIBER
APF DROP 24 APF DROP 24	PROPOSED AERIAL INTERCONNECT, PROPOSED 24 FIBER DROP
APF 144	PROPOSED AERIAL INTERCONNECT, PROPOSED 144 FIBER
UPF 24 UPF 24 UPF 24	PROPOSED UNDERGROUND CONDUIT, PROPOSED 24 FIBER
UPF DROP 24 UPF DROP 24	PROPOSED UNDERGROUND CONDUIT, PROPOSED 24 FIBER DROP
UPF 144	PROPOSED UNDERGROUND CONDUIT, PROPOSED 144 FIBER
UPF 288	PROPOSED UNDERGROUND CONDUIT, PROPOSED 288 FIBER
UPP UPP	PROPOSED UNDERGROUND CONDUIT, PROPOSED UNDERGROUND POWER
UP5 UP5	PROPOSED UNDERGROUND CONDUIT, PROPOSED CAT 5
UPC UPC UPC UPC	PROPOSED UNDERGROUND CONDUIT, PROPOSED CCTV COMPOSITE CABLE
SPF 144	PROPOSED STRUCTURAL CONDUIT, PROPOSED 144 FIBER
SPF 288	PROPOSED STRUCTURAL CONDUIT, PROPOSED 288 FIBER
// // // // //	PROPOSED GUY WIRE
APP APP	PROPOSED AERIAL POWER

INTERCONNECT CALLOUTS

QUANTITIES INCLUDE ALL FIBER OPTIC CABLE AND ANY ASSOCIATED EQUIPMENT OR INFRASTRUCTURE REQUIRED TO INSTALL THE CABLE BETWEEN PROPOSED FIBER OPTIC SPLICE ENCLOSURES AT ADJACENT CONNECTED INTERSECTIONS. THE FIBER OPTIC SPLICE ENCLOSURE SERVES AS A DELINEATION POINT BETWEEN INTERCONNECT AND INTERSECTION QUANTITIES AND IS ITSELF TYPICALLY INCLUDED WITHIN THE INTERCONNECT QUANTITIES.

THE FOLLOWING ITEMS ARE QUANTIFIED WITHIN THE ASSOCIATED INTERCONNECT QUANTITY SHEET:

IC–# — FIBER OPTIC CABLE
INSTALLED IN EXISTING CONDUIT (CONDUIT CLEANED) OR NEW CONDUIT
- INSTALLED IN NEW CONDUIT
- INSTALLED ON NEW MESSENGER WIRE
- OVERLASHED TO EXISTING OVERHEAD INTERCONNECT
- REPLACING EXISTING OVERHEAD INTERCONNECT

SE %–# — FIBER OPTIC SPLICE ENCLOSURE
- % – DENOTES ENCLOSURE TYPE
- A: AERIAL, U: UNDERGROUND

SLK–% ###' — FIBER OPTIC CABLE SLACK
- % – DENOTES SLACK TYPE
- A: AERIAL, U: UNDERGROUND
- ###': LENGTH OF SLACK

R–# — REMOVE EXISTING EQUIPMENT

CN–# — COMMUNICATIONS NODE CABINET

TC–# — SIGNAL CONTROL CABINET
- 24 STRAND FIBER OPTIC TERMINATION PANEL
- LAYER 2 ETHERNET NETWORK SWITCH
- FIBER OPTIC–ETHERNET TRANSCEIVER
- ETHERNET–SERIAL DATA TERMINAL SERVER OR TRAFFIC SIGNAL CONTROLLER

EC–# — EQUIPMENT DATA/POWER CABLE

EC–# / IC–# — EQUIPMENT DATA/POWER CABLE AND FIBER OPTIC CABLE

IC–# / IC–# — FIBER OPTIC CABLE, TWO VARYING TYPES

WR–# — WIRELESS NETWORK RADIO

CTV–# — CCTV TRAFFIC SURVEILLANCE CAMERA

CITY OF COLUMBUS UTILITY LEGEND

☒	SEWER	EXISTING SEWER LINES IN THE VICINITY OF PROPOSED UNDERGROUND WORK.
☒	WATER	EXISTING WATER LINES IN THE VICINITY OF PROPOSED UNDERGROUND WORK.
☒	POWER	EXISTING UNDERGROUND POWER LINES OR FACILITIES ARE WITHIN THE VICINITY OF PROPOSED UNDERGROUND WORK – OR – PROPOSED AERIAL INTERCONNECT CABLE IS TO BE INSTALLED IN THE VICINITY OF EXISTING OVERHEAD POWER LINES.
☒	LIGHTING	EXISTING UNDERGROUND LIGHTING LINES OR FACILITIES ARE WITHIN THE VICINITY OF PROPOSED UNDERGROUND WORK – OR – PROPOSED AERIAL INTERCONNECT CABLE IS TO BE INSTALLED IN THE VICINITY OF EXISTING OVERHEAD STREET LIGHTING LINES.
(#)		EXISTING UTILITY CROSSING. SEE UTILITY CROSSING INFO SHEET XX.
(S#)		EXISTING OVERHEAD SIGN CALLOUT

PROPOSED ITS SYMBOL LEGEND

⊗	PROPOSED WOODEN UTILITY POLE
S	PROPOSED STRAIN POLE
	PROPOSED GUY WIRE ANCHOR
CB	SIGNAL CONTROLLER REPLACED
	CCTV DEVICE, PROPOSED
	PROPOSED WIRELESS ANTENNA
	PROPOSED ITS EQUIPMENT CABINET
	PROPOSED COMMUNICATION NODE
	PROPOSED MEDIAN JUNCTION BOX, 36"
	PROPOSED PULL BOXES (18" 725.06; POLYCONCRETE)
	PROPOSED PULL BOXES (18", 24" SQUARE)
	PROPOSED PULL BOXES (32", 48" ROUND)
	BORE PIT, 4'X8'
	PROPOSED BRACKET ARM
	TRENCH IN PAVEMENT
	CONDUIT RESTORATION
	SIDEWALK REPLACED

3378-E

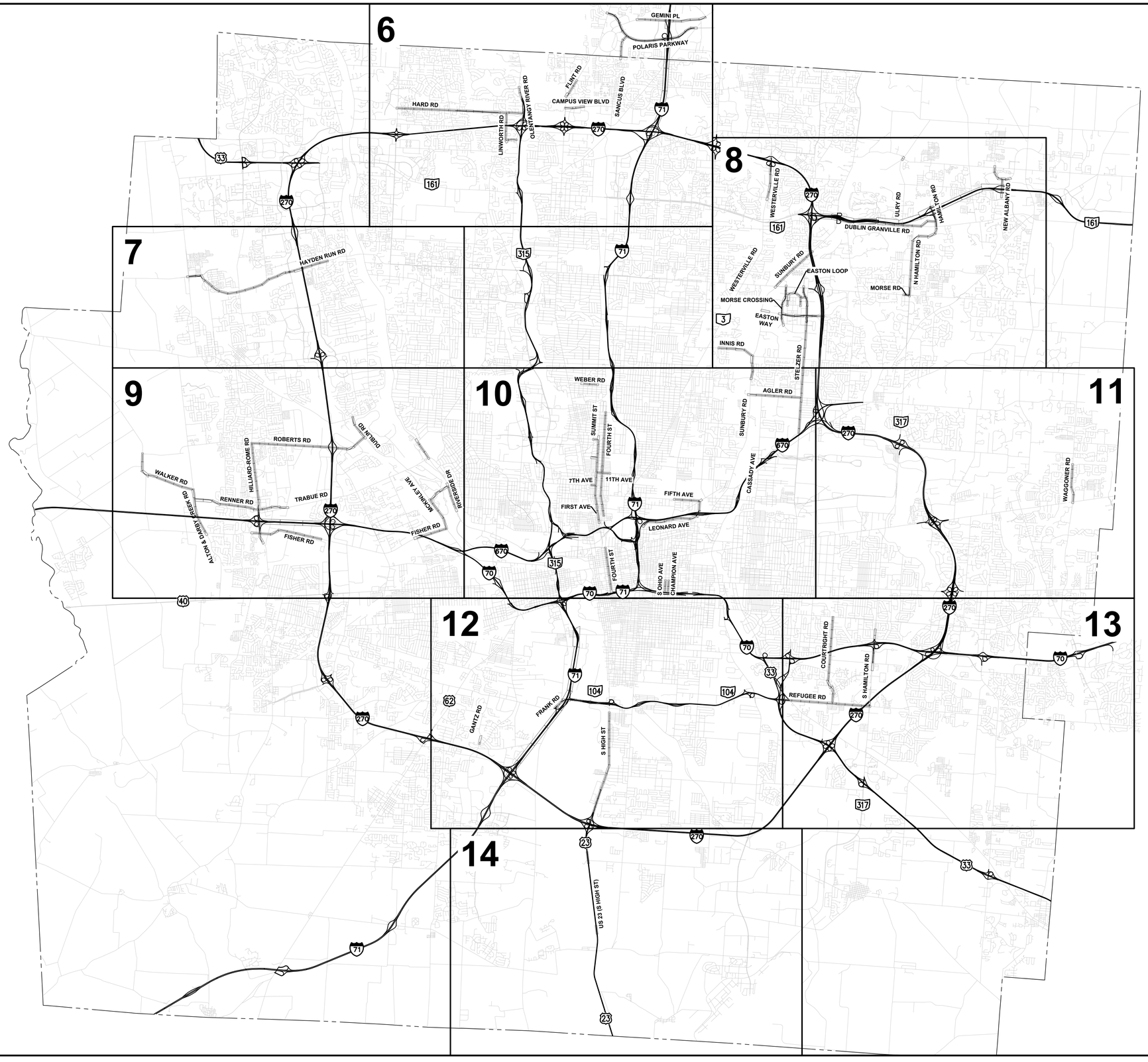
CIP: 540007–100012
PID NUMBER: 99733

PROPOSED LINETYPE AND SYMBOL LEGEND

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

4
915

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HORIZONTAL SCALE IN FEET

CIP: 540007–100012
PID NUMBER: 99733

INTERCONNECT SHEET INDEX
OVERVIEW

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

5
915

3378-E

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DELAWARE CO
FRANKLIN CO

SUMMIT VIEW RD
SAWMILL RD
HARD RD
347 348 349 350 351 353 354 355 356 358 359 360
SMOKY ROW RD
LINWORTH RD
363 364 365 366
OLENTANGY RIVER RD
369 370 371 372
WILSON BRIDGE RD
362
SNOUFFER RD
315
161
23
FLINT RD
378 379 380
CAMPUS VIEW BLVD
374 375 376
N HIGH ST
SANCUS BLVD
382 383 384
387 388 389 390 385 391 392 394 395 396 397 399 400 401
GEMINI PLACE
406 407 408 409 410 412 413 414
404 403
POLARIS PARKWAY
420 419 418 417 416
WORTHINGTON GALENA RD
SCHROCK RD
KARL RD
INTERSTATE 270
INTERSTATE 71
23

KEY PLAN
7 8
9 10 11
12 13
14

3378-E

HORIZONTAL SCALE IN FEET
0 1500 3000

CIP: 540007-100012
PID NUMBER: 99733

INTERCONNECT SHEET INDEX
1 OF 9

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

6
915

3378-E

0 1500 3000
HORIZONTAL SCALE IN FEET

CIP: 540007-100012
PID NUMBER: 99733

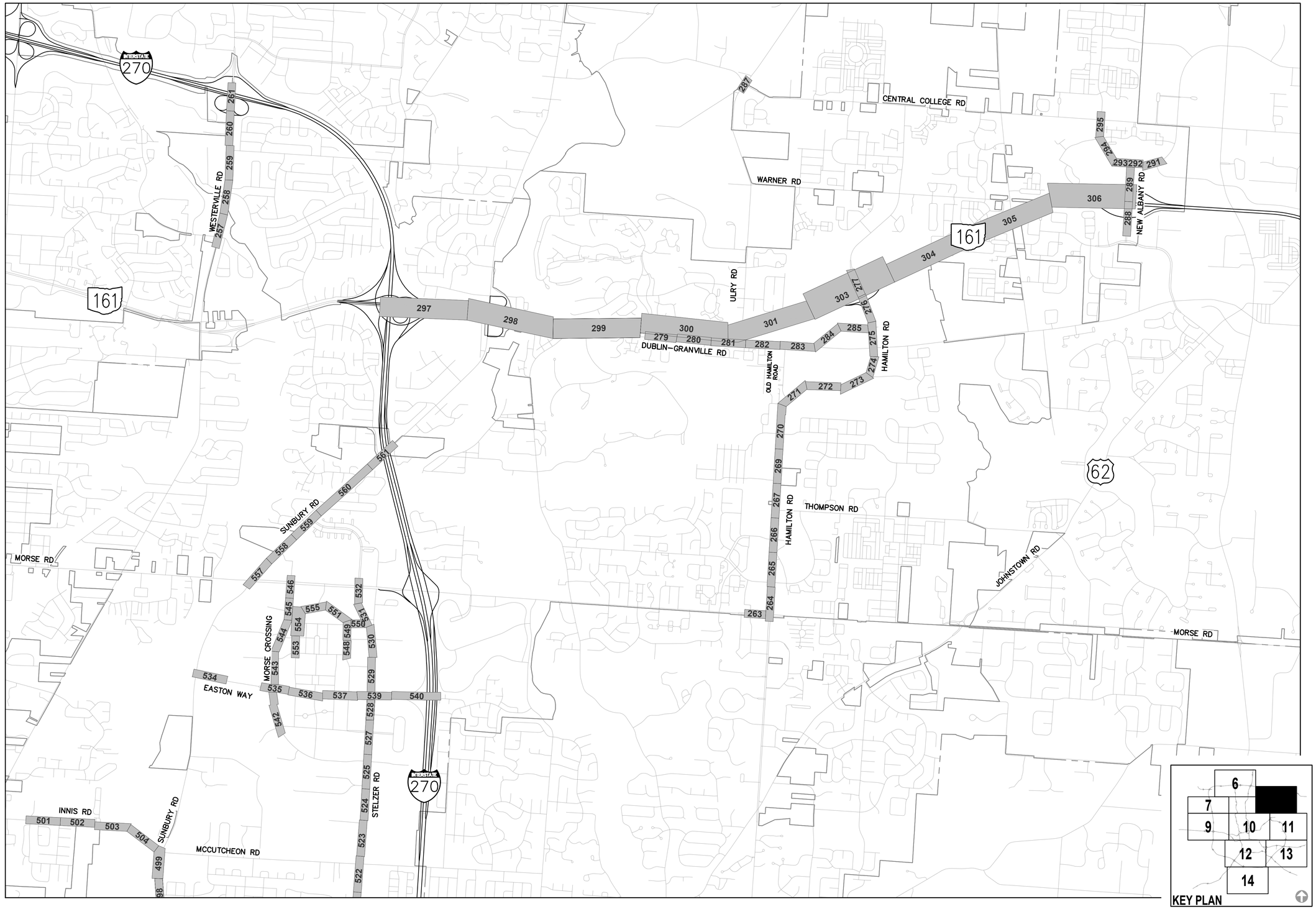
INTERCONNECT SHEET INDEX
2 OF 9

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

7
915

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3378-E

HORIZONTAL SCALE IN FEET
0 1500 3000

CIP: 540007-100012
PID NUMBER: 99733

INTERCONNECT SHEET INDEX
3 OF 9

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

8
915

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MAIN ST
HILLIARD ROME RD
FISHINGER RD
SCIOTO DARBY CREEK RD
DUBLIN RD
INTERSTATE 270
ROBERTS RD
LANE AVE
RIVERSIDE DR
TRABUE RD
WALTHAM RD
FIFTH AVE
NOCKLEY AVE
DUBLIN RD
WALKER RD
ALTON & DARBY CREEK RD
RENNER RD
HILLIARD ROME RD
TRABUE RD
INTERSTATE 70
FEDER RD
FISHER RD
INTERSTATE 70
W BROAD ST
US 33
US 40

66 67 68 69 70 71 72 73 80 79 78 77 76 75 74 116 115 114 113 112 111 108 107 106 105 104 118 119 120 121 122 123 125 126 127 128 129 130 131 145 146 147 82 83 84 85 86 87 88 90 91 92 93 178 179 180 181 95 96 97 98 99 100 101 102 154 155 156 133 134 135 136 138 139 140 141 142 143 151 150 149

KEY PLAN
6 7 8 10 11 12 13 14

3378-E

0 1500 3000
HORIZONTAL SCALE IN FEET

CIP: 540007-100012
PID NUMBER: 99733

INTERCONNECT SHEET INDEX
4 OF 9

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

9
915

3378-E

0 1500 3000
HORIZONTAL SCALE IN FEET

CIP: 540007-100012
PID NUMBER: 99733

INTERCONNECT SHEET INDEX
5 OF 9

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

10
915

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3378-E

CIP: 540007-100012
PID NUMBER: 99733

INTERCONNECT SHEET INDEX
6 OF 9

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

11
915

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3378-E

0 1500 3000
HORIZONTAL
SCALE IN FEET

CIP: 540007-100012
PID NUMBER: 99733

INTERCONNECT SHEET INDEX
7 OF 9

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

12
915

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3378-E

0 1500 3000
HORIZONTAL SCALE IN FEET

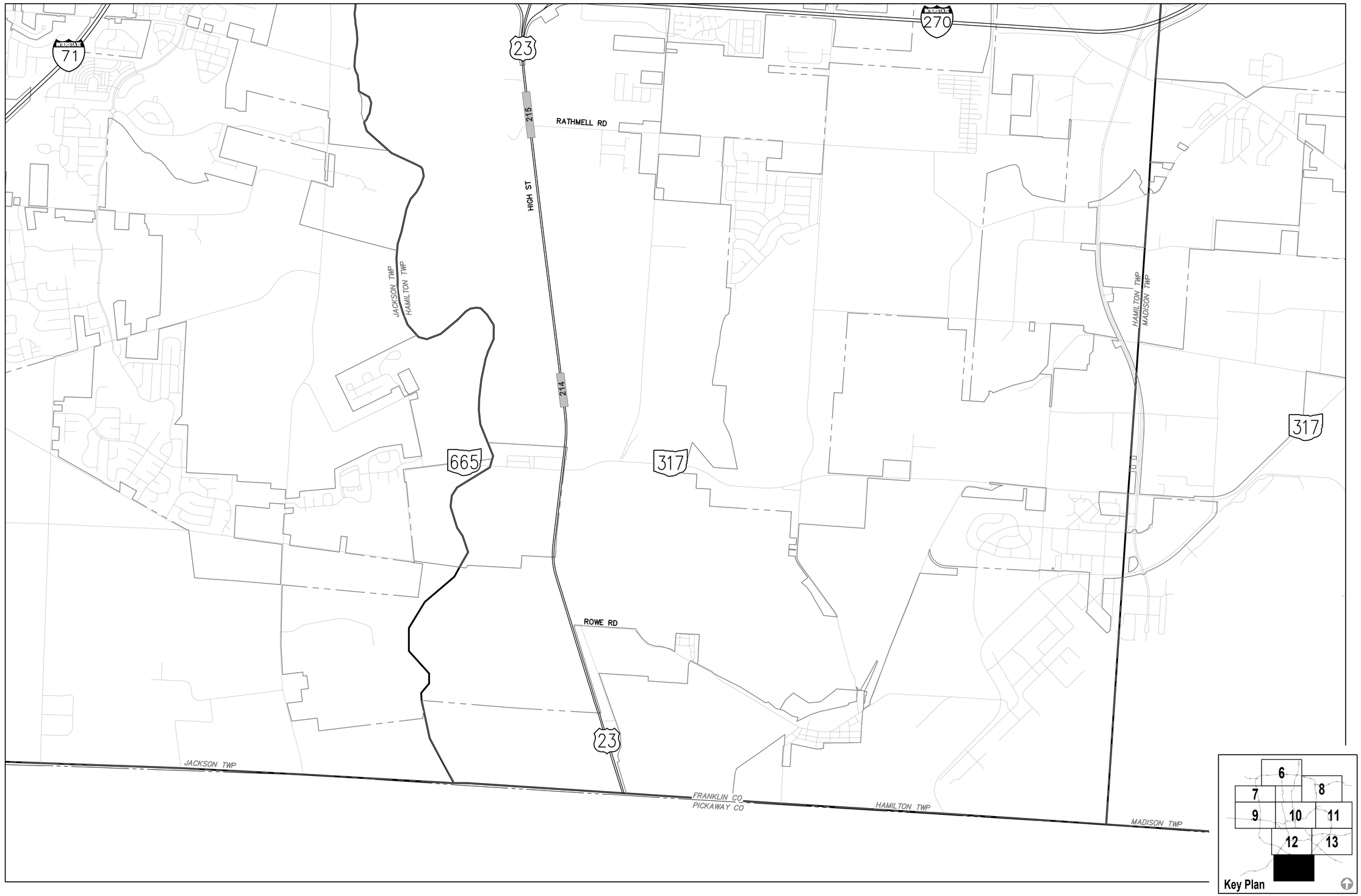
CIP: 540007-100012
PID NUMBER: 99733

INTERCONNECT SHEET INDEX
8 OF 9

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

13
915

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3378-E

HORIZONTAL SCALE IN FEET
0
1500
3000

CIP: 540007-100012
PID NUMBER: 99733

INTERCONNECT SHEET INDEX
9 OF 9

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

14
915

J:\Jobs\63721 ctss phase e\TECHPROD\Sheets\Index\CTSS_PhE_Index01B.dwg – IC_Index_10_V1 layout ~ last saved by: gburch 08/28/2018 05:23pm ~ printed 09/12/2018 08:05am PSLTS: 1 LTS: 1 CAS: 1" = 1'

INT #	PLAN SHEET #	INTERSECTION NAME	CORRIDOR	STATION
1068	187	INT# 1068: JACKSON PKE. AT SR-104	SR-104	STA. 312+50 TO 325+00
1069	186	INT# 1069: FRANK RD. AT I-71 NB	FRANK RD.	STA. 303+00 TO 312+50
1070	184	INT# 1070: FRANK RD. AT I-71 SB	FRANK RD.	STA. 289+00 TO 292+00
1077	573	INT# 1077: GREENLAWN AVE AT I-71 NB RAMPS	GREENLAWN AVE.	
1080	185	INT# 1080: FRANK RD. AT HARMON AVE.	FRANK RD.	STA. 292+00 TO 303+00
1112	183	INT# 1112: GANTZ RD. AT HARDY PKWY.	GANTZ RD.	
2025	249	INT# 2025: COURTRIGHT RD. AT LIVINGSTON AVE.	COURTRIGHT RD.	STA. 94+00 TO 110+50
2034	474	INT# 2034: MAIN ST. AT OHIO AVE.	OHIO AVE.	STA. 10+00 TO 18+00
2035	477	INT# 2035: CHAMPION AVE. AT MAIN ST.	CHAMPION AVE.	STA. 10+00 TO 18+00
2054	465	INT# 2054: FRONT ST. AT GREENLAWN AVE.	GREENLAWN AVE.	STA. 55+00 TO 60+00
2064	231	INT# 2064: DERING AVE. AT HIGH ST.	HIGH ST.	STA. 398+00 TO 409+00
2065	228	INT# 2065: HIGH ST. AT SOUTHGATE DR.	HIGH ST.	STA. 365+00 TO 376+00
2066	224	INT# 2066: HIGH ST. AT WILLIAMS RD.	HIGH ST.	STA. 322+00 TO 333+00
2067	222	INT# 2067: GREAT SOUTHERN BLVD. NORTH AT HIGH ST.	HIGH ST.	STA. 311+00 TO 322+00
2068	221	INT# 2068: GREAT SOUTHERN BLVD. SOUTH AT HIGH ST.	HIGH ST.	STA. 300+00 TO 311+00
2069	220	INT# 2069: HIGH ST. AT OBETZ RD.	HIGH ST.	STA. 289+00 TO 300+00
2070	214	INT# 2070: HIGH ST. AT SCIOTO DOWNS	HIGH ST.	STA. 129+00 TO 140+00
2105	474	INT# 2105: MOUND ST. AT OHIO AVE.	OHIO AVE.	STA. 10+00 TO 18+00
2106	477	INT# 2106: CHAMPION AVE. AT MOUND ST.	CHAMPION AVE.	STA. 10+00 TO 18+00
2109	473	INT# 2109: FULTON ST. AT OHIO AVE.	OHIO AVE.	STA. 2+00 TO 10+00
2110	476	INT# 2110: CHAMPION AVE. AT FULTON ST.	CHAMPION AVE.	STA. 2+00 TO 10+00
2117	243	INT# 2117: COURTRIGHT RD. AT PETZINGER RD.	COURTRIGHT RD.	STA. 40+00 TO 51+00
2140	193	INT# 2140: REFUGEE RD. AT WINCHESTER PIKE	REFUGEE RD.	STA. 3+00 TO 14+00
2147	248	INT# 2147: COURTRIGHT RD. AT ROSWELL DR.	COURTRIGHT RD.	STA. 83+00 TO 94+00
2148	245	INT# 2148: COURTRIGHT RD. AT GROVES RD.	COURTRIGHT RD.	STA. 51+00 TO 62+00
2149	199	INT# 2149: ASKINS RD. / COURTRIGHT RD. AT REFUGEE RD.	REFUGEE RD.	STA. 58+00 TO 69+00
2150	237	INT# 2150: DUNDEE AVE. AT HAMILTON RD.	HAMILTON RD.	STA. 287+00 TO 295+00
2151	235	INT# 2151: HAMILTON RD. AT I-70 EB	HAMILTON RD.	STA. 265+00 TO 276+00
2152	236	INT# 2152: HAMILTON RD. AT I-70 WB	HAMILTON RD.	STA. 276+00 TO 287+00
2153	233	INT# 2153: GROVES RD. AT HAMILTON RD.	HAMILTON RD.	STA. 243+00 TO 254+00
2159	202	INT# 2159: EASTLAND FIVE AT REFUGEE RD.	REFUGEE RD.	STA. 89+00 TO 100+50
2160	203	INT# 2160: HAMILTON RD. AT REFUGEE RD.	REFUGEE RD.	STA. 100+50 TO 112+00
2182	215	INT# 2182: HIGH ST. AT RATHMELL RD.	HIGH ST.	STA. 217+00 TO 228+00
2184	192	INT# 2184: STATE ROUTE 104 / REFUGEE RD. AT US-33 OFF RAMPS	STATE ROUTE 104 / REFUGEE RD.	STA. 574+00 TO 3+00
2200	240	INT# 2200: COURTRIGHT RD. AT KIMBERLY PKWY.	COURTRIGHT RD.	STA. 12+00 TO 21+00
2206	222	INT# 2206: HIGH ST. AT HIGHVIEW BLVD.	HIGH ST.	STA. 311+00 TO 322+00
2215	229	INT# 2215: ALCOTT RD. AT HIGH ST.	HIGH ST.	STA. 376+00 TO 387+00
3040	450	INT# 3040: FOURTH ST. AT HUDSON ST.	FOURTH ST.	STA. 164+00 TO 169+00
3048	459	INT# 3048: INDIANOLA AVE. AT WEBER RD.	WEBER RD.	STA. 26+00 TO 37+00
3050	458	INT# 3050: CALUMET ST. AT WEBER RD.	WEBER RD.	STA. 15+00 TO 26+00
3094	479	INT# 3094: LEONARD AVE. AT ST CLAIR AVE.	LEONARD AVE.	STA. 3+00 TO 12+00
3095	482	INT# 3095: CHAMPION AVE. / JOYCE AVE. AT LEONARD AVE.	LEONARD AVE.	STA. 33+00 TO 44+00
3097	485	INT# 3097: LEONARD AVE. AT TAYLOR AVE.	LEONARD AVE.	STA. 54+00 TO 65+00
3098	491	INT# 3098: FIFTH AVE. AT LEONARD AVE.	FIFTH AVE.	STA. 263+00 TO 268+00
3118	279	INT# 3118: BLENDON POND DR. / LITTLE TURTLE WAY AT DUBLIN GRANVILLE RD.	DUBLIN GRANVILLE RD.	STA. 0+00 TO 9+00
3121	522	INT# 3121: MCCUTHCEON RD. AT STELZER RD.	STELZER RD.	STA. 186+00 TO 197+50
3122	493	INT# 3122: FIFTH AVE. AT JOYCE AVE.	FIFTH AVE.	STA. 232+00 TO 243+00
3138	497	INT# 3138: AGLER RD. / CASSADY AVE. AT SUNBURY RD.	SUNBURY RD.	STA. 191+00 TO 201+00
3139	499	INT# 3139: INNIS RD. / MCCUTCHEON RD. AT SUNBURY RD.	SUNBURY RD.	STA. 212+00 TO 222+00
3140	507	INT# 3140: AGLER RD. AT CASSADY AVE.	AGLER RD.	STA. 8+00 TO 19+00
3169	436	INT# 3169: FIRST AVE. AT FOURTH ST.	FOURTH ST.	STA. 39+00 TO 46+00
3170	437	INT# 3170: FOURTH ST. AT SECOND AVE.	FOURTH ST.	STA. 46+00 TO 54+00
3171	440	INT# 3171: FIFTH ST. AT FOURTH ST.	FOURTH ST.	STA. 64+50 TO 75+00
3172	441	INT# 3172: FOURTH ST. AT SEVENTH AVE.	FOURTH ST.	STA. 75+00 TO 86+00
3173	442	INT# 3173: ELEVENTH AVE. AT FOURTH ST.	FOURTH ST.	STA. 86+00 TO 95+00
3174	443	INT# 3174: CHITTENDEN AVE. AT FOURTH ST.	FOURTH ST.	STA. 95+00 TO 102+00
3176	444	INT# 3176: FOURTH ST. AT SEVENTEENTH AVE.	FOURTH ST.	STA. 102+00 TO 119+00
3178	448	INT# 3178: FOURTH ST. AT WYANDOTTE AVE.	FOURTH ST.	STA. 147+00 TO 153+00
3180	454	INT# 3180: ELEVENTH AVE. AT GRANT AVE.	ELEVENTH AVE.	STA. 23+50 TO 33+00
3181	422	INT# 3181: SUMMIT ST. AT WARREN ST.	SUMMIT ST.	STA. 13+00 TO 18+00
3182	423	INT# 3182: FIRST AVE. AT SUMMIT ST.	SUMMIT ST.	STA. 18+00 TO 29+00
3183	424	INT# 3183: SECOND AVE. AT SUMMIT ST.	SUMMIT ST.	STA. 29+00 TO 37+00
3184	427	INT# 3184: FIFTH AVE. AT SUMMIT ST.	SUMMIT ST.	STA. 48+00 TO 59+00
3185	428	INT# 3185: SEVENTH AVE. AT SUMMIT ST.	SUMMIT ST.	STA. 59+00 TO 70+00
3186	429	INT# 3186: ELEVENTH AVE. AT SUMMIT ST.	SUMMIT ST.	STA. 70+00 TO 78+00
3187	430	INT# 3187: CHITTENDEN AVE. AT SUMMIT ST.	SUMMIT ST.	STA. 78+00 TO 89+00
3188	430	INT# 3188: SUMMIT ST. AT TWELFTH AVE.	SUMMIT ST.	STA. 78+00 TO 89+00
3189	432	INT# 3189: FIFTEENTH AVE. AT SUMMIT ST.	SUMMIT ST.	STA. 89+00 TO 100+00
3190	433	INT# 3190: SEVENTEENTH AVE. AT SUMMIT ST.	SUMMIT ST.	STA. 100+00 TO 111+00
3191	434	INT# 3191: LANE AVE. AT SUMMIT ST.	SUMMIT ST.	STA. 111+00 TO 122+00
3194	452	INT# 3194: INDIANOLA AVE. AT SEVENTH AVE.	SEVENTH AVE.	STA. 6+00 TO 11+00
3195	455	INT# 3195: FIFTEENTH AVE. AT INDIANOLA AVE.	FIFTEENTH AVE.	STA. 11+00 TO 18+00
3196	456	INT# 3196: INDIANOLA AVE. AT LANE AVE.	LANE AVE.	STA. 141+50 TO 147+50

INT #	PLAN SHEET #	INTERSECTION NAME	CORRIDOR	STATION
3207	487	INT# 3207: I-670 WB AT LEONARD AVE.	LEONARD AVE.	STA. 74+00 TO 82+00
3209	557	INT# 3209: MORSE RD. AT SUNBURY RD.	SUNBURY RD.	STA. 312+00 TO 323+00
3210	283	INT# 3210: DUBLIN GRANVILLE RD. AT HAMILTON RD. W.	DUBLIN GRANVILLE RD.	STA. 42+00 TO 53+00
3211	397	INT# 3211: I-71 NB AT POLARIS PKWY.	POLARIS PKWY.	STA. 153+00 TO 163+00
3213	408	INT# 3213: GEMINI PLACE AT LYRA DR.	GEMINI PLACE	STA. 145+00 TO 156+00
3214	409	INT# 3214: GEMINI PLACE AT I-71 SB	GEMINI PLACE	STA. 156+00 TO 167+00
3215	409	INT# 3215: GEMINI PLACE AT I-71 NB	GEMINI PLACE	STA. 156+00 TO 167+00
3216	281	INT# 3216: DUBLIN GRANVILLE RD. AT ULRY RD.	DUBLIN GRANVILLE RD.	STA. 20+00 TO 31+00
3217	406	INT# 3217: GEMINI PLACE AT SOLSTICE PKWY.	GEMINI PLACE	STA. 121+00 TO 132+00
3219	383	INT# 3219: CHASE BANK DR. AT SANCUS BLVD.	SANCUS BLVD.	STA. 267+00 TO 278+00
3220	525	INT# 3220: MONTCLAIR DR. AT STELZER RD.	STELZER RD.	STA. 219+00 TO 230+00
3221	525	INT# 3221: MORSE CROSSING AT STELZER RD.	STELZER RD.	STA. 219+00 TO 230+00
3222	265	INT# 3222: BROADVIEW DR. / CHESTNUT HILL DR. AT HAMILTON RD.	HAMILTON RD.	STA. 722+00 TO 733+00
3223	487	INT# 3223: I-670 EB AT LEONARD AVE.	LEONARD AVE.	STA. 74+00 TO 82+00
3224	399	INT# 3224: ORION PL. AT POLARIS PKWY.	POLARIS PKWY.	STA. 163+00 TO 174+00
3228	532	INT# 3228: MORSE RD. AT STELZER RD.	STELZER RD.	STA. 279+00 TO 287+00
3229	539	INT# 3229: EASTON WAY AT STELZER RD.	EASTON WAY	STA. 52+00 TO 63+00
3230	540	INT# 3230: EASTON WAY AT I-270 NB	EASTON WAY	STA. 63+00 TO 77+45
3232	390	INT# 3232: POLARIS PKWY. AT SANCUS BLVD.	POLARIS PKWY.	STA. 89+00 TO 100+00
3233	390	INT# 3233: CAPELLA DR. AT POLARIS PKWY.	POLARIS PKWY.	STA. 89+00 TO 100+00
3234	389	INT# 3234: GEMINI PLACE AT POLARIS PKWY.	POLARIS PKWY.	STA. 79+00 TO 89+00
3235	384	INT# 3235: CHASE BANK NORTH / KROGER AT SANCUS BLVD.	SANCUS BLVD.	STA. 278+00 TO 287+00
3236	387	INT# 3236: OLD STATE RD. AT POLARIS PKWY.	POLARIS PKWY.	STA. 57+00 TO 68+00
3237	546	INT# 3237: MORSE CROSSING AT MORSE RD.	MORSE CROSSING	STA. 88+00 TO 93+25
3238	545	INT# 3238: MORSE CROSSING AT SETON ST.	MORSE CROSSING	STA. 81+00 TO 88+00
3239	501	INT# 3239: BOYLESTON BLVD. AT INNIS RD.	INNIS RD.	STA. 40+00 TO 51+00
3240	275	INT# 3240: HAMILTON RD. AT OLD DUBLIN GRANVILLE RD.	HAMILTON RD.	STA. 817+00 TO 828+00
3241	535	INT# 3241: EASTON WAY AT MORSE CROSSING	EASTON WAY	STA. 21+00 TO 30+00
3242	257	INT# 3242: COOPER RD. AT WESTERVILLE RD.	WESTERVILLE RD.	STA. 268+00 TO 279+00
3243	382	INT# 3243: LAZELLE RD. AT SANCUS BLVD.	SANCUS BLVD.	STA. 262+00 TO 267+00
3244	543	INT# 3244: GRAMERCY ST. AT MORSE CROSSING	MORSE CROSSING	STA. 59+50 TO 70+00
3245	394	INT# 3245: POLARIS PKWY. AT POLARIS TOWNE CENTRE EAST	POLARIS PKWY.	STA. 121+00 TO 132+00
3246	392	INT# 3246: POLARIS PKWY. AT POLARIS TOWNE CENTRE WEST	POLARIS PKWY.	STA. 110+00 TO 121+00
3247	277	INT# 3247: HAMILTON RD. AT SR-161 WB	HAMILTON RD.	STA. 837+00 TO 846+00
3248	264	INT# 3248: HAMILTON RD. AT MORSE RD.	HAMILTON RD.	STA. 711+00 TO 722+00
3249	263	INT# 3249: KOHL'S AND STONE RIDGE PL. AT MORSE RD.	MORSE RD.	STA. 423+00 TO 429+75
3250	536	INT# 3250: EASTON SQUARE PL. AT EASTON WAY	EASTON WAY	STA. 30+00 TO 41+00
3251	536	INT# 3251: EASTON LOOP W. AT EASTON WAY	EASTON WAY	STA. 30+00 TO 41+00
3252	295	INT# 3252: CENTRAL COLLEGE RD. AT NEW ALBANY RD. W.	NEW ALBANY RD. W.	STA. 14+00 TO 22+00
3253	292	INT# 3253: NEW ALBANY RD. AT NEW ALBANY RD. E.	NEW ALBANY RD. E.	STA. 1+00 TO 4+00
3254	537	INT# 3254: EASTON LOOP E. AT EASTON WAY	EASTON WAY	STA. 41+00 TO 52+00
3255	395	INT# 3255: LYRA DR. AT POLARIS PKWY.	POLARIS PKWY.	STA. 132+00 TO 143+00
3256	561	INT# 3256: SUNBURY RD. AT WATT RD.	SUNBURY RD.	STA. 367+00 TO 378+00
3257	288	INT# 3257: NEW ALBANY RD. AT SR-161 EB	NEW ALBANY RD.	STA. 2+00 TO 13+00
3258	289	INT# 3258: NEW ALBANY RD. AT SR-161 WB	NEW ALBANY RD.	STA. 13+00 TO 24+00
3259	529	INT# 3259: COLLIERY AVE. AT STELZER RD.	STELZER RD.	STA. 250+00 TO 261+00
3261	267	INT# 3261: HAMILTON RD. AT THOMPSON RD.	HAMILTON RD.	STA. 744+00 TO 755+00
3262	270	INT# 3262: HAMILTON RD. AT MENEREY LN. / PRESERVE BLVD.	HAMILTON RD.	STA. 766+00 TO 780+00
3264	251	INT# 3264: BROAD ST. AT WAGGONER RD.	WAGGONER RD.	STA. 1018+00 TO 1029+00
3266	509	INT# 3266: AGLER RD. AT CITYGATE DR.	AGLER RD.	STA. 30+00 TO 41+00
3268	548	INT# 3268: EASTON LOOP E. AT GRAMERCY ST.	EASTON LOOP E.	STA. 23+00 TO 29+00
3269	549	INT# 3269: EASTON LOOP E. AT WORTH AVE.	EASTON LOOP E.	STA. 29+00 TO 35+00
3270	553	INT# 3270: EASTON LOOP W. AT GRAMERCY ST.	EASTON LOOP W.	STA. 22+00 TO 29+00
3271	531	INT# 3271: STELZER RD. AT WORTH AVE.	STELZER RD.	STA. 271+00 TO 279+00
3272	534	INT# 3272: EASTON WAY AT SUNBURY RD.	EASTON WAY	STA. 0+00 TO 10+00
3273	559	INT# 3273: STELZER RD. AT SUNBURY RD.	SUNBURY RD.	STA. 334+00 TO 345+00
3275	542	INT# 3275: EASTON COMMONS AT MORSE CROSSING	MORSE CROSSING	STA. 43+00 TO 57+00
3276	527	INT# 3276: EASTON OVAL / EASTON COMMONS AT STELZER RD.	STELZER RD.	STA. 230+00 TO 241+00
3277	400	INT# 3277: POLARIS NEIGHBORHOOD CENTER AT POLARIS PKWY.	POLARIS PKWY.	STA. 174+00 TO 182+00
3280	530	INT# 3280: ALSTON ST. AT STELZER RD.	STELZER RD.	STA. 261+00 TO 271+00
3281	276	INT# 3281: HAMILTON RD. AT SR-161 EB	HAMILTON RD.	STA. 828+00 TO 837+00
3283	284	INT# 3283: CENTRAL BLVD. AT DUBLIN GRANVILLE RD.	DUBLIN GRANVILLE RD.	STA. 53+00 TO 63+00
3293	266	INT# 3293: CHILMARK DR. AT HAMILTON RD.	HAMILTON RD.	STA. 733+00 TO 744+00
3294	291	INT# 3294: NEW ALBANY RD. E. AT WALTON PKWY.	NEW ALBANY RD. E.	STA. 4+00 TO 11+00
3295	293	INT# 3295: GIANT EAGLE AT NEW ALBANY RD. W.	NEW ALBANY RD. W.	STA. 1+00 TO 5+00
3298	517	INT# 3298: AGLER RD. AT STELZER RD.	STELZER RD.	STA. 142+00 TO 153+00
3299	521	INT# 3299: GOVERNORS CLUB BLVD. / MIDDLEMORE DR. AT STELZER RD.	STELZER RD.	STA. 175+00 TO 186+00
3300	287	INT# 3300: CENTRAL COLLEGE RD. AT ULRY RD.	ULRY RD.	STA. 82+00 TO 87+00
3303	255	INT# 3303: CHAPEL STONE RD. AT WAGGONER RD.	WAGGONER RD.	STA. 1061+00 TO 1068+00
3304	515	INT# 3304: CITYGATE DR. AT STELZER RD.	STELZER RD.	STA 120+00 TO 131+00
3305	523	INT# 3305: EASTON SQUARE PL. AT STELZER RD.	STELZER RD.	STA. 197+50 TO 209+00
3308	401	INT# 3308: OLDE WORTHINGTON RD. AT POLARIS PKWY.	POLARIS PKWY.	STA. 182+00 TO 190+00
3311	410	INT# 3311: IKEA WAY AT ORION PL.	IKEA WAY	STA. 167+00 TO 177+00
3312	412	INT# 3312: IKEA WAY AT ROAD A	IKEA WAY	STA. 177+00 TO 188+00
3313	414	INT# 3313: IKEA WAY AT WORTHINGTON RD.	IKEA WAY	STA. 199+00 TO 208+00

INDEX LIST
FOR PLAN SHEETS SET 1 OF 2

CIP: 540007–100012
PID NUMBER: 99733

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

3378-E

J:\Jobs\63721 ctss phase e\TECHPROD\Sheets\Index\CTSS_PhE_Index-List-placeholder.dwg – INDEX LIST 1 OF 2 (VOL I) layout ~ last saved by: skoppitt 09/05/2018 05:19pm ~ printed 09/12/2018 08:06am PSLTS: 0 LTS: 30 CAS: 1" = 1"

INT #	PLAN SHEET #	INTERSECTION NAME	CORRIDOR	STATION
3814	447	INT# 3814: FOURTH ST. AT NORTHWOOD AVE.	FOURTH ST.	STA. 136+00 TO 147+00
4124	156	INT# 4124: LANE AVE. AT RIVERSIDE DR.	RIVERSIDE DR.	STA. 63+00 TO 71+00
4132	149	INT# 4132: DUBLIN RD. AT STELLA CT.	DUBLIN RD.	STA. 80+00 TO 90+00
4140	90	INT# 4140: HILLIARD ROME RD. AT RENNER RD.	RENNER RD.	STA. 75+00 TO 86+00
4146	374	INT# 4146: CAMPUS VIEW BLVD. AT HIGH ST.	CAMPUS VIEW BLVD.	STA. 5+00 TO 15+00
4148	353	INT# 4148: HARD RD. AT SMOKY ROW RD.	HARD RD.	STA. 163+00 TO 174+00
4149	145	INT# 4149: DUBLIN RD. AT ROBERTS RD.	DUBLIN RD.	STA. 223+00 TO 234+00
4150	129	INT# 4150: ROBERTS RD. AT WILSON RD.	ROBERTS RD.	STA. 117+00 TO 128+00
4151	128	INT# 4151: I-270 NB AT ROBERTS RD.	ROBERTS RD.	STA. 106+00 TO 117+00
4152	127	INT# 4152: 1-270 SB AT ROBERTS RD.	ROBERTS RD.	STA. 95+00 TO 106+00
4153	127	INT# 4153: ROBERTS RD. AT WESTBELT DR.	ROBERTS RD.	STA. 95+00 TO 106+00
4168	141	INT# 4168: FIFTH AVE. AT MCKINLEY AVE.	MCKINLEY AVE.	STA. 178+00 TO 185+00
4172	378	INT# 4172: FLINT RD. AT HIGH ST.	FLINT RD.	STA. 0+00 TO 5+00
4178	347	INT# 4178: HARD RD. AT SAWMILL RD.	HARD RD.	STA. 98+00 TO 109+00
4181	121	INT# 4181: ROBERTS RD. AT WALCUTT CT.	ROBERTS RD.	STA. 42+00 TO 53+00
4182	118	INT# 4182: HILLIARD ROME RD. AT ROBERTS RD.	ROBERTS RD.	STA. 9+00 TO 20+00
4193	138	INT# 4193: FISHER RD. AT MCKINLEY AVE.	MCKINLEY AVE.	STA. 141+00 TO 156+00
4198	356	INT# 4198: HARD RD. AT WORTHINGTON KILBOURNE HS	HARD RD.	STA. 194+00 TO 205+00
4199	108	INT# 4199: HILLIARD ROME RD. AT MEIJER STORE DR.	HILLIARD ROME RD.	STA. 116+00 TO 127+00
4204	371	INT# 4204: OLENTANGY RIVER RD. / MASON PL. AT SR-315	SR-315	STA. 666+00 TO 677+00
4207	359	INT# 4207: HARD RD. AT LINWORTH RD.	HARD RD.	STA. 227+00 TO 238+00
4208	116	INT# 4208: HILLIARD ROME RD. AT SILVERHORN CENTER DR.	HILLIARD ROME RD.	STA. 185+00 TO 196+00
4210	376	INT# 4210: CAMPUS VIEW BLVD. AT CROSSWOODS DR. / HUNTINGTON PARK	CAMPUS VIEW BLVD.	STA. 19+00 TO 30+00
4212	375	INT# 4212: CAMPUS VIEW BLVD. AT HIGH CROSS BLVD.	CAMPUS VIEW BLVD.	STA. 15+00 TO 19+00
4215	147	INT# 4215: DUBLIN RD. AT DUNLAVIN GLEN RD. / SCIOTO DARBY CREEK RD.	DUBLIN RD.	STA. 245+00 TO 256+00
4217	91	INT# 4217: RENNER RD. AT WESTPOINTE PLAZA DR.	RENNER RD.	STA. 86+00 TO 97+00
4219	363	INT# 4219: LINWORTH RD. AT PARSIPHONY PL. / WILSON BRIDGE RD.	LINWORTH RD.	STA. 0+00 TO 2+00
4224	123	INT# 4224: INTERNATIONAL ST. AT ROBERTS RD.	ROBERTS RD.	STA. 64+00 TO 75+00
4225	111	INT# 4225: HILLIARD ROME RD. AT WESTCHESTER WOODS BLVD.	HILLIARD ROME RD.	STA. 127+00 TO 138+00
4226	362	INT# 4226: OLENTANGY RIVER RD. AT WILSON BRIDGE RD.	WILSON BRIDGE RD.	STA. 16+50 TO 27+50
4227	349	INT# 4227: HARD RD. AT STANBURN RD.	HARD RD.	STA. 120+00 TO 131+00
4228	175	INT# 4228: CAMDEN PLACE DR. AT HAYDEN RUN RD.	HAYDEN RUN RD.	STA. 181+75 TO 192+00
4230	93	INT# 4230: RENNER RD. / TRABUE RD. AT WALCUTT CT.	RENNER RD. / TRABUE RD.	STA. 108+00 TO 30+00
4233	105	INT# 4233: HILLIARD ROME RD. AT I-70 EB	HILLIARD ROME RD.	STA. 84+00 TO 95+00
4234	105	INT# 4234: FISHER RD./FEDER RD. AT HILLIARD ROME RD.	HILLIARD ROME RD.	STA. 84+00 TO 95+00
4239	114	INT# 4239: HILLIARD ROME RD. AT NIKE DR.	HILLIARD ROME RD.	STA. 161+00 TO 172+00
4240	112	INT# 4240: GIANT EAGLE AT HILLIARD ROME RD.	HILLIARD ROME RD.	STA. 138+00 TO 150+00
4241	354	INT# 4241: HARD RD. AT SADDLE RUN	HARD RD.	STA. 174+00 TO 185+00
4243	350	INT# 4243: FOXBORO LN. AT HARD RD.	HARD RD.	STA. 131+00 TO 142+00
4249	176	INT# 4249: DEXTER FALLS RD. AT HAYDEN RUN RD.	HAYDEN RUN RD.	STA. 192+00 TO 203+00
4252	160	INT# 4252: BOW FALLS BLVD. / LEPPERT RD. AT HAYDEN RUN RD.	HAYDEN RUN RD.	STA. 38+00 TO 49+00
4256	113	INT# 4256: HILLIARD ROME RD. AT TANGLEWOOD PARK BLVD.	HILLIARD ROME RD.	STA. 150+00 TO 161+00
4257	88	INT# 4257: RENNER RD. AT TANGLEWOOD PARK BLVD.	RENNER RD.	STA. 64+00 TO 75+00
4258	174	INT# 4258: EDWARDS FARMS RD. AT HAYDEN RUN RD.	HAYDEN RUN RD.	STA. 170+50 TO 181+75
4259	159	INT# 4259: HAYDEN RUN BLVD./SPRING RIVER AVE. AT HAYDEN RUN RD.	HAYDEN RUN RD.	STA. 29+00 TO 38+00
4262	356	INT# 4262: HARD RD. AT MCCORD MIDDLE SCHOOL	HARD RD.	STA. 194+00 TO 205+00
4266	107	INT# 4266: HILLIARD ROME RD. AT I-70 WB	HILLIARD ROME RD.	STA. 105+00 TO 113+50
6253	154	INT# 6253: CAMBRIDGE BLVD./ TRABUE RD. AT RIVERSIDE DR.	RIVERSIDE DR.	STA. 41+00 TO 52+00
6700	152	INT# 6700: DUBLIN RD. / RIVERSIDE DR. AT FIFTH AVE.	DUBLIN RD. / RIVERSIDE DR.	STA. 112+00 TO 4+00
6801	369	INT# 6801: OLENTANGY RIVER RD. AT SR-315	SR-315	STA. 645+00 TO 656+00
6802	372	INT# 6802: CLUBVIEW BLVD. AT OLENTANGY RIVER RD.	OLENTANGY RIVER RD.	STA. 677+00 TO 685+00
SIG4015	506	INT# SIG4015: AGLER RD. AT SUNBURY RD. & SUNBURY DR.	AGLER RD.	STA. 0+00 TO 8+00
SIG4120	133	INT# SIG4120: FISHER RD. AT HAGUE AVE.	FISHER RD.	STA. 32+00 TO 43+00
SIG4725	380	INT# SIG4725: FLINT RD. AT PARK RD.	FLINT RD.	STA. 16+00 TO 25+00
SIG4765	75	INT# SIG4765: ALTON & DARBY CREEK RD. AT FEDER RD.	ALTON & DARBY CREEK RD.	STA. 16+00 TO 22+00
SIG4780	165	INT# SIG4780: AVERY RD. AT HAYDEN RUN RD.	HAYDEN RUN RD.	STA. 82+00 TO 93+00
SIG4805	85	INT# SIG4805: RENNER RD. AT SPINDLER RD.	RENNER RD.	STA. 33+00 TO 44+00
SIG4835	158	INT# SIG4835: COSGRAY RD. AT HAYDEN RUN RD.	HAYDEN RUN RD.	STA. 12+00 TO 29+00
SIG4870	66	INT# SIG4870: ROBERTS RD. AT WALKER RD.	WALKER RD.	STA. 32+00 TO 43+00
SIG4880	79	INT# SIG4880: ALTON & DARBY CREEK RD. AT RENNER RD.	ALTON & DARBY CREEK RD.	STA. 55+00 TO 66+00
SIG4885	80	INT# SIG4885: ALTON & DARBY CREEK RD. AT WALKER RD.	ALTON & DARBY CREEK RD.	STA. 66+00 TO 77+00
SPLICE-01	275	SPLICE-01: HAMILTON RD. AT OLD DUBLIN GRANVILLE RD.	HAMILTON RD.	STA. 817+00 TO 828+00
SPLICE-02	513	SPLICE-02: OLE COUNTRY LN. AT STELZER RD.	STELZER RD.	STA. 103+00 TO 109+00
FCEO FACILITY	102	INT# FCEO FACILITY: FACILITY AT FISHER RD. (WEST MAINTENANCE)	FISHER RD. (WEST MAINTENANCE)	STA. 93+00 TO 104+00
SE_161_Sunbury	298	SE_161_Sunbury: SR-161 AT SUNBURY RD.	SR-161	STA. 858+00 TO 886+00
XXXX	104	INT# XXXX: HILLIARD & ROME RD. AT MENARDS	HILLIARD & ROME RD.	STA. 71+00 TO 84+00

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CIP: 540007-100012
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CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

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PRIMARY SHEET #	SECONDARY SHEET #	UTILITY CROSSING ID#	STATION	UTILITY TYPE/SIZE	TOP OF EXISTING UTILITY	EXISTING GROUND ELEVATION	BOTTOM OF PROPOSED ELEVATION	VERTICAL SEPARTION FEET	UTILITY REFERENCE PLAN OR OWNER
98		1	50+15, 37' LT	27" SANITARY	900.6 C	923.8 SURV	920.8	20.2	RP02705
98		2	50+21, 50' LT	36" WATER	916.0 C	919.6 SURV	917.0 *(+)	1.0	CTP0359_010
98		3	50+24, 58' LT	8" GAS	918.1 LEV A	920.7 SURV	916.3 *(-)	-1.8	COLUMBIA GAS B724800875
100		1	73+90, 43' LT	36" WATER	903.2 C	909.3 SURV	906.3	3.1	CTO0359_011
100		2	79+61, 33' RT	15" SANITARY	896.2 C	927.0 SURV	924.0	27.8	CC01370
101		1	85+10, 29' LT	12" STORM	918.7 C	920.3 SURV	916.0 *(-)	-2.7	SURVEY
101		2	88+87, 30' LT	TELECOMS	-	906.1 SURV	903.1	-	
101		3	89+19, 30' LT	2" GAS	900.5 LEV A	904.3 SURV	901.5 *(+)	1.0	COLUMBIA GAS B724800924
101		4	90+39, 42' LT	8" SANITARY	888.1 C	898.8 SURV	895.8	7.7	RP03219
101		5	90+70, 48' LT	SANITARY	888.8 C	896.9 SURV	893.9	5.1	CC11382_001
101		6	91+35, 53' LT	6" WATER	887.2 LEV A	896.0 SURV	893.0	5.8	P2824_05
101		7	91+85, 54' LT	12" SANITARY	887.0 C	897.3 SURV	894.3	7.3	WO-1029552
101		8	92+58, 53' LT	6" SANITARY	886.4 C	893.5 SURV	890.5	4.1	RP17411
101		9	92+74, 53' LT	GAS	887.6 LEV A	896.2 SURV	893.2	5.5	
102		1	94+48, 35' LT	38" STORM	893.5 C	893.5 SURV	888.5 *(-)	-5.0	E1091
102		2	94+84, 36' LT	10" WATER	887.0 LEV A	892.7 SURV	889.7	2.7	P0020_01
102		3	95+23, 45' LT	2" WATER	-	894.3 SURV	891.3	-	TAP ID 177195
102		4	95+46, 45' LT	4" WATER	891.5 C	893.9 SURV	892.5 *(+)	1.0	CTP0359
102		5	63+60, 45' LT	12" STORM	893.2 C	895.2 SURV	894.2 *(+)	1.0	SURVEY
102		6	98+23, 37' LT	8" SANITARY	879.8 C	896.0 SURV	893.0	13.2	RP09141
102		7	98+49, 35' LT	1" GAS	892.7 LEV A	895.6 SURV	893.7 *(+)	1.0	
102		8	99+69, 39' LT	1" GAS	890.9 LEV A	895.0 SURV	892.0	1.1	
102		9	101+21, 46' LT	10" SANITARY	876.7 C	894.1 SURV	891.1	14.4	CC06702, CC15437
102		10	101+44, 56' LT	36" WATER	887.5 C	893.7 SURV	890.7	3.2	CTP0359_012
102		11	101+45, 78' LT	8" SANITARY	876.3 C	892.6 SURV	889.6	13.3	CC06702
105	563	1	93+11, 38' RT	LIGHTING	-	941.2 FG	938.2	-	
105	563	2	93+13, 62' LT	LIGHTING	-	942.4 FG	939.4	-	
106		1	98+88, 121' RT	LIGHTING	-	930.0 S	927.0	-	
106		2	99+90, 123' RT	24" STORM	924.0 C	930.1 S	927.1	3.1	
133		1	41+36, 124' LT	LIGHTING	-	816.1 FG	813.1	-	
134		1	45+18, 63' LT	TELECOMS	-	790.5 SURV	787.5	-	
141		1	183+69, 25' LT	TRAFFIC	-	782.9 SURV	779.9	-	
141		2	183+69, 26' LT	ELECTRIC	-	782.9 SURV	779.9	-	
145		1	232+40, 18' RT	TELECOMS	-	850.0 FG	847.0	-	AT&T
147		1	254+36, 35' RT	18" STORM	850.0 C	851.0 SURV	847.0 *(-)	-3.0	E01270
155		1	57+60, 34' LT	CABLE TV	-	780.9 SURV	777.9	-	SURVEY
155		2	57+61, 34' LT	ELECTRIC	-	780.9 SURV	777.9	-	SURVEY
155		3	57+94, 34' LT	ELECTRIC	-	781.4 SURV	778.4	-	SURVEY
155		4	57+96, 34' LT	CABLE TV	-	781.4 SURV	778.4	-	SURVEY
155		5	58+92, 37' LT	2" FIBER OPTIC	779.5 LEV A	781.6 SURV	778.4 *(-)	-1.1	SURVEY
155		6	62+86, 37' LT	8" WATER	781.6 C	785.7 SURV	782.7	1.2	WL2001-07_004
156		1	63+89, 45' LT	2" FIBER OPTIC	783.3 LEV A	786.2 SURV	784.3 *(+)	1.0	SURVEY
156		2	65+60, 52' LT	TRAFFIC	-	787.0 SURV	784.0	-	SURVEY
156		3	65+84, 60' LT	ELECTRIC	-	786.7 SURV	783.7	-	SURVEY
156		4	65+84, 60' LT	CABLE TV	-	786.7 SURV	783.7	-	SURVEY
156		5	65+85, 61' LT	ELECTRIC	-	786.7 SURV	783.7	-	SURVEY
156		6	65+85, 61' LT	CABLE TV	-	786.7 SURV	783.7	-	SURVEY
156		7	65+86, 64' LT	TRAFFIC	-	786.5 SURV	783.5	-	SURVEY
160		1	43+88, 46' LT	TRAFFIC	-	941.2 SURV	938.2	-	SURVEY
160		2	44+38, 37' LT	TELECOMS	-	940.9 SURV	937.9	-	SURVEY
160		3	44+39, 36' LT	UNKNOWN	-	940.9 SURV	937.9	-	SURVEY
160		4	45+07, 26' LT	2" WATER	933.8 C	940.9 SURV	937.9	4.1	E02300
160		5	45+08, 26' LT	TRAFFIC	-	940.8 SURV	937.8	-	SURVEY
160		6	45+38, 25' LT	4" GAS	931.7 C	940.3 SURV	937.3	-	COLUMBIA GAS B715701099
160		7	45+53, 26' LT	TELECOMS	-	940.3 SURV	937.3	-	SURVEY
160		8	46+67, 27' LT	6" PETROLEUM	931.5 C	938.5 SURV	935.5	4.0	MARATHON PIPELINE/EO2300
160		9	47+71, 27' LT	6" WATER	932.5 C	938.0 SURV	935.0	2.5	WL2006-28_007
160		10	48+77, 26' LT	18" STORM	935.4 C	937.6 SURV	936.4 *(+)	1.0	E02300
161		1	54+74, 26' LT	15" STORM	931.9 C	937.2 SURV	934.2	2.3	E02300
161		2	59+49, 19' LT	10" SANITARY	920.7 C	938.1 SURV	935.1	14.4	RP11621
162		1	61+06, 16' LT	15" STORM	927.6 C	938.0 FG	935.0	7.4	CC14092
165		1	86+31, 50' RT	6" GAS	918.8 LEV A	922.1 SURV	919.8 *(+)	1.0	COLUMBIA GAS B801200166
165		2	86+32, 47' RT	TELECOMS	-	922.0 SURV	919.0	-	SURVEY
165		3	86+33, 45' RT	12" STORM	916.3 C	922.0 SURV	919.0	2.7	SURVEY
165		4	86+35, 42' RT	TELECOMS	-	921.9 SURV	918.9	-	SURVEY
165		5	86+40, 31' RT	FIBER OPTIC	908.5 LEV B	921.5 SURV	918.5	10.0	SURVEY
165		6	88+02, 17' RT	12" STORM	921.6 C	924.2 SURV	922.6 *(+)	1.0	SURVEY
165		7	89+36, 16' RT	FIBER OPTIC	920.8 LEV A	927.1 SURV	924.1	3.3	SURVEY
178		1	283+21, 112' RT	6" STORM (FUTURE)	923.5 C	925.4 S	921.8 *(-)	1.0	FRA-70-3.41
178		2	284+46, 109' RT	27" STORM	921.8 C	923.8 S	922.8 *(+)	1.0	FRA-70-3.41
178		3	286+85, 141' RT	LIGHTING (FUTURE)	-	923.2 S	920.2	-	FRA-70-3.41
178		4	290+71, 129' RT	6" STORM (FUTURE)	919.1 C	921.2 S	917.4 *(-)	1.0	FRA-70-3.41

PRIMARY SHEET #	SECONDARY SHEET #	UTILITY CROSSING ID#	STATION	UTILITY TYPE/SIZE	TOP OF EXISTING UTILITY	EXISTING GROUND ELEVATION	BOTTOM OF PROPOSED ELEVATION	VERTICAL SEPARTION FEET	UTILITY REFERENCE PLAN OR OWNER
178		5	291+91, 129' RT	15" STORM (FUTURE)	915.6 C	920.6 S	917.6	2.0	FRA-70-3.41
178		6	292+18, 129' RT	FIBER OPTIC	911.1 LEV A	920.7 SURV	917.7	6.5	COLUMBUS FIBERNET
178		7	292+45, 128' RT	24" WATER	911.3 C	920.3 S	917.3	6.0	CTP0446_012
178		8	292+56, 128' RT	TELECOMS	-	920.2 S	917.2	-	AT&T
178		9	292+88, 127' RT	16" GAS	913.1 LEV A	920.6 SURV	917.6	4.4	COLUMBIA GAS
178		10	294+75, 124' RT	TELECOMS	-	919.3 S	916.3	-	AT&T
178		11	294+92, 123' RT	TELECOMS	-	919.2 S	916.2	-	AT&T
178		12	295+71, 122' RT	6" STORM (FUTURE)	916.3 C	918.7 S	914.6 *(-)	1.0	FRA-70-3.41
178		13	300+71, 114' RT	6" STORM (FUTURE)	913.6 C	916.0 S	911.9 *(-)	1.0	FRA-70-3.41
178		14	301+70, 113' RT	15" STORM	911.4 C	915.6 S	912.6	1.2	FRA-70-3.41
179		1	305+71, 109'RT	6" STORM (FUTURE)	910.9 C	913.3 S	909.2 *(-)	1.0	FRA-70-3.41
179		2	307+21, 108' RT	15" STORM (FUTURE)	909.1 C	912.5 S	910.1 *(+)	1.0	FRA-70-3.41
179		3	310+71, 109' RT	6" STORM (FUTURE)	908.0 C	910.3 S	906.3 *(-)	1.0	FRA-70-3.41
179		4	313+29, 109' RT	18" STORM	904.2 C	909.5 S	906.5	2.3	FRA-70-3.41
179		5	313+45, 109' RT	6" STORM (FUTURE)	907.0 C	909.5 S	905.3 *(-)	1.0	FRA-70-3.41
179		6	317+70, 109' RT	6" STORM (FUTURE)	909.1 C	910.2 S	907.2 *(-)	1.2	FRA-70-3.41
180		1	345+19, 116' RT	LIGHTING (FUTURE)	-	907.5 S	904.5	-	
180		2	347+78, 118' RT	LIGHTING (FUTURE)	-	902.5 S	899.5	-	
180		3	347+86, 118' RT	LIGHTING (ABAN)	-	902.4 S	899.4	-	
180		4	348+98, 119' RT	LIGHTING (ABAN)	-	901.7 S	898.7	-	
180		5	351+09, 134' RT	LIGHTING (FUTURE)	-	899.4 S	896.4	-	
180		6	351+44, 136' RT	15" STORM (FUTURE)	897.5 C	900.2 S	898.5 *(+)	1.0	FRA-70-3.41
180		7	352+12, 141' RT	LIGHTING (ABAN)	-	899.7 S	896.7	-	
180		8	353+65, 108' RT	LIGHTING	-	899.4 S	896.4	-	
180		9	356+38, 128' RT	60" STORM	885.4 C	891.6 FG	888.6	3.2	FRA-70-3.41
181		1	362+35, 145' RT	42" STORM	879.2 C	882.9 FG	880.2 *(+)	1.0	FRA-70-3.41
181		2	363+27, 146' RT	LIGHTING	-	881.7 FG	878.7	-	
181	565	3	364+33, 100' RT	15" STORM	878.5 C	881.5 FG	879.5 *(+)	1.0	FRA-70-3.41
181	565	4	366+93, 162' RT	LIGHTING	-	880.0 FG	877.0	-	
186	209, 571	1	305+64, 62' LT	120" SANITARY	691.2 C	700.0 FG	697.0	5.8	CC13074
187		1	317+08, 70' RT	108" SANITARY	690.3 C	708.5 FG	705.5	15.2	RP01044
187		2	318+02, 66' RT	240" COMBINED	554.0 C	712.6 FG	709.6	155.6	CC15684
189		1	332+69, 109' RT	TELECOMS	-	708.5 FG	705.5	-	AT&T
189		2	338+35, 67' RT	8" WATER	10.0 BG	708.6 FG	705.6	-	FRA-104-8.04_040
189		3	340+25, 71' RT	TELECOMS	-	706.0 FG	703.0	-	AT&T
189		4	341+05, 72' RT	16" SANITARY (ABAN)	-	707.3 FG	704.3	-	C00512 (ABAN PER FRA-104-8.73)
190		1	351+75, 93' RT	16" SANITARY (ABAN)	-	705.4 FG	702.4	-	C00512 (ABAN PER FRA-104-8.73)
190		2	352+20, 92' RT	TELECOMS	-	706.1 FG	703.1	-	AT&T
190		3	352+47, 48' RT	LIGHTING	-	708.3 FG	705.3	-	
190		4	357+19, 44' RT	18" STORM	708.8 C	712.0 FG	709.8 *(+)	1.0	FRA-104-8.73
190	578	7	359+15, 40' RT	8" SANITARY (ABAN)	-	714.0 FG	711.0	-	CC0952 (ABAN PER FRA-104-8.73)
202		1	89+88, 60' LT	4" ELECTRIC	755.8 LEV A	759.4 SURV	756.8 *(+)	1.0	
202		2	89+88, 64' LT	ELECTRIC	-	758.5 SURV	755.5	-	
202		3	89+91, 66' LT	ELECTRIC	-	758.8 SURV	755.8	-	
202		4	89+93, 60' LT	TRAFFIC	-	759.2 SURV	756.2	-	
202		5	89+98, 60' LT	GAS	LEV A PENDING	756.0 SURV	753.0	-	
202		6	90+00, 60' LT	ELECTRIC	-	759.5 SURV	756.5	-	
202		7	90+02, 60' LT	TRAFFIC	-	759.6 SURV	756.6	-	
202		8	91+28, 51' LT	ELECTRIC	-	759.1 SURV	756.1	-	
202		9	95+14, 49' LT	ELECTRIC	-	757.2 SURV	754.2	-	
202		10	96+20, 48' LT	12" WATER	752.0 S	757.2 SURV	754.2	2.2	WL1966-53_004
202		11	97+27, 54' LT	ELECTRIC	-	756.3 SURV	753.3	-	
202		12	97+82, 62' LT	ELECTRIC	-	756.0 SURV	753.0	-	
202		13	97+93, 61' LT	8" GAS	752.0 LEV A	756.0 SURV	753.0	1.0	B801200189
203		1	101+12, 60' LT	90" STORM	739.8 C	749.2 SURV	746.2	6.4	FRA-270-18.15S
203		2	103+04, 60' LT	15" STORM	736.9 C	744.4 SURV	741.4	4.5	FRA-270-18.15S
203		3	106+65, 41' LT	12" STORM	745.9 C	751.1 SURV	748.1	2.2	FRA-270-18.15S
209	186, 571	1	305+64, 62' LT	120" SANITARY	691.2 C	700.0 FG	697.0	5.8	CC13074
212	573	1	761+62, 143' RT	LIGHTING	-	707.8 FG	704.8	-	
212	573	2	761+62, 145' RT	LIGHTING	-	707.2 FG	704.2	-	
212	573	3	761+60, 158' RT	24" STORM	700.7 C	704.0 FG	701.7 *(+)	1.0	RP11200
218		1	270+45, 107' LT	12" WATER	687.3 LEV A	690.8 SURV	688.3 *(+)	1.0	CTP0600_014
218		2	273+60, 56' LT	LIGHTING	-	699.2 FG	696.2	-	
218		3	273+84, 50' LT	LIGHTING	-	700.0 FG	697.0	-	
235		1	271+58, 78' LT	LIGHTING	-	794.4 FG	791.4	-	
235		2	275+25, 83' LT	LIGHTING	-	768.0 FG	765.0	-	
236	581	1	277+84, 66' LT	15" STORM (ABAN)	-	782.4 FG	779.4	-	FRA-317-2.72 (FRA-70-21.33)
277	587	4	843+24, 92' LT	15" STORM	964.5 C	974.4 FG	971.4	6.9	FRA-161-16.75
277	303, 587	5	841+16, 76' LT	42" STORM	961.2 C	970.4 FG	967.4	6.2	FRA-161-16.75
277	587	6	843+08, 64' LT	TELECOMS	-	974.7 FG	971.7	-	
277	587	7	843+08, 63' LT	TRAFFIC	-	974.2 FG	971.2	-	
277	587	8	843+10, 57' LT	LIGHTING	-	975.4 FG	972.4	-	

FG: SURFACE ELEVATION DETERMINED BY FRANKLIN COUNTY GIS, ACCURACY OF ±0.5'
BG: ELEVATION BELOW GRADE
SURV: SURFACE ELEVATION DETERMINED BY SURVEY
LEVA: FIELD VERIFIED ELEVATION, LEVEL A SUE
LEVB: FIELD VERIFIED ELEVATION, LEVEL B SUE
LEVC: FIELD VERIFIED ELEVATION, LEVEL C SUE
S: ELEVATION SCALED FROM PLANS
C: ELEVATION CALCULATED USING INVERT FROM COC DEPT OF PUBLIC WORKS GIS DATABASE
UND: ELEVATIONS COULD NOT BE DETERMINED FROM RECORD PLANS AND WILL BE SHOWN AFTER THE FIELD SUE INVESTIGATION
–: VARYING ELEVATIONS. DEPTHS ARE UNKNOWN
*(+): PROPOSED CONDUIT HAS BEEN ADJUSTED ABOVE THE TOP OF EXISTING UTILITY TO MEET MINIMUM VERTICAL CLEARANCE REQUIREMENT OF 1.0'
*(–): PROPOSED CONDUIT HAS BEEN ADJUSTED BELOW THE BOTTOM OF EXISTING UTILITY TO MEET MINIMUM VERTICAL CLEARANCE REQUIREMENT OF 1.0'
LEVA PENDING: LEVEL A SUE ELEVATION PENDING

IF THE VERTICAL SEPARATION IS LESS THAN ONE FOOT (1') OR IF THE ELEVATION IS NOT SHOWN OR IS LISTED AS UND, THE CONTRACTOR SHALL EXPOSE THE EXISTING UTILITY AND ADJUST THE PROPOSED CONDUIT DEPTH TO 18"–60" TO MEET VERTICAL CLEARANCE REQUIREMENTS BY DIRECTION OF THE CITY OF COLUMBUS REPRESENTATIVE.

3378-E

CIP: 540007–10012
PID NUMBER: 99733

UTILITY CROSSING INDEX
1 OF 3

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

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915

J:\Jobs\63721 ctss phase e\TECHPROD\Sheets\Index\CTSS_PhE_UC_Index.dwg ~ UTILITY_CROSSINGS (VOL I) layout ~ last saved by: gburch 08/30/2018 10:34am ~ printed 09/12/2018 08:06am PSLTS: 1 LTS: 1 CAS: 1" = 1'

PRIMARY SHEET #	SECONDARY SHEET #	UTILITY CROSSING ID#	STATION	UTILITY TYPE/SIZE	TOP OF EXISTING UTILITY	EXISTING GROUND ELEVATION	BOTTOM OF PROPOSED ELEVATION	VERTICAL SEPARTION FEET	UTILITY REFERENCE PLAN OR OWNER
277	303, 587	9	843+57, 93' RT	TRAFFIC	-	975.3 FG	972.3	-	
277	303, 587	10	843+58, 96' RT	TRAFFIC	-	975.1 FG	972.1	-	
297	585	1	1615+21, 217' LT	TRAFFIC	-	848.0 FG	845.0	-	
300		1	915+82, 78' LT	60" STORM	906.9 C	914.3 S	911.3	4.4	FRA-161-25.90
300		2	916+15, 79' LT	ELECTRIC	-	915.0 S	912.0	-	FRA-161-25.90
300		3	917+13, 82' LT	TELECOMS	-	917.6 S	914.6	-	FRA-161-25.90
300		4	917+17, 82' LT	TELECOMS	-	917.7 S	914.7	-	FRA-161-25.90
300		5	917+31, 83' LT	15" STORM	913.3 C	919.9 S	916.9	3.6	FRA-161-25.90
300		6	929+55, 80' LT	48" STORM	927.2 C	931.7 FG	928.7	1.5	FRA-161-16.75_077
300		7	934+03, 72' LT	36" STORM	931.0 C	936.7 FG	933.7	2.7	FRA-161-16.75_078
300		8	938+64, 61' LT	18" STORM	936.0 C	939.0 FG	937.0 *(+)	1.0	FRA-161-16.75_078
301		1	946+02, 66' LT	TELECOMS	-	947.9 FG	944.9	-	AT&T
301		2	946+36, 67' LT	TELECOMS	-	947.9 FG	944.9	-	AT&T
301		3	947+40, 67' LT	24" WATER	940.0 C	948.3 FG	945.3	5.3	CTP0461_011
301		4	947+59, 67' LT	21" STORM	945.9 C	948.2 FG	946.9 *(+)	1.0	FRA-161-16.75_079
301		5	959+89, 76' LT	15" SANITARY	960.6 C	972.0 FG	969.0	8.4	RP06418
303		1	972+58, 80' LT	15" STORM	978.4 C	988.2 FG	985.2	6.8	FRA-161-16.75
303	587	2	843+00, 273' LT	42" STORM	966.3 C	975.1 FG	972.1	5.8	FRA-161-16.75
303	277, 587	5	841+16, 76' LT	42" STORM	961.2 C	970.4 FG	967.4	6.2	FRA-161-16.75
303	277, 587	9	843+57, 93' RT	TRAFFIC	-	975.3 FG	972.3	-	
303	277, 587	10	843+58, 96' RT	TRAFFIC	-	975.1 FG	972.1	-	
303		11	996+91, 82' LT	LIGHTING	-	975.1 FG	972.1	-	
303		12	997+26, 117' LT	LIGHTING	-	972.2 FG	969.2	-	
304		1	999+26, 89' LT	54" STORM	957.3 C	965.7 FG	962.7	5.4	FRA-161-16.75
304		2	1009+15, 65' LT	24" SANITARY	943.8 C	961.4 FG	958.4	14.6	RP07485
304		3	1015+54, 62' LT	GAS	952.5 LEV A	964.5 SURV	961.5	9.0	COLUMBIA GAS B132
304		4	1021+59, 61' LT	15" STORM	959.9 C	966.0 FG	963.0	3.1	FRA-161-16.75
305		1	1031+55, 62' LT	21" STORM	961.5 C	969.5 FG	966.5	5.0	FRA-161-16.75
305		2	1040+03, 65' LT	TELECOMS	-	971.7 FG	968.7	-	AT&T
305		3	1041+61, 66' LT	16" WATER	961.0 C	971.7 FG	968.7	7.7	CTP0860_006
305		4	1043+31, 67' LT	24" STORM	966.0 C	972.0 FG	969.0	3.0	FRA-161-16.75
305		5	1052+57, 67' LT	15" STORM	973.3 C	981.5 FG	978.5	5.2	FRA-161-16.75
306		1	1061+57, 85' LT	15" STORM	982.5 C	988.1 FG	985.1	2.6	FRA-161-16.75
306		2	1062+24, 88' LT	30" SANITARY	961.5 C	988.0 FG	985.0	23.5	FRA-161-16.75
306		3	1068+35, 114' LT	20" GAS	985.8 C	990.7 FG	987.7	1.9	COLUMBIA GAS B100
306		4	1068+63, 119' LT	20" GAS	986.3 C	991.0 FG	988.0	1.7	COLUMBIA GAS B115
306		5	1071+34, 230' LT	60" STORM	991.5 C	996.1 FG	993.1	1.6	FRA-161-20.51
306	590	6	1076+26, 453' LT	TRAFFIC (FUTURE)	-	1010.1 FG	1007.1	-	
362		1	16+57, 30' LT	6" WATER	814.3 LEV A	818.4 SURV	815.4	1.1	WL1973-52_003
362		2	16+59, 30' LT	GAS	LEV A	818.0 SURV	815.0	-	COLUMBIA GAS B801200199
362		3	19+89, 19' LT	3" WATER	799.9 LEV A	805.9 SURV	802.9	3.0	WL1973-52_004
362		4	20+34, 18' LT	8" SANITARY	793.3 C	804.3 SURV	800.5 *(-)	7.2	RP03227
362		5	20+34, 18' LT	ELECTRIC	-	804.3 SURV	800.5 *(-)	-	
362		6	20+35, 18' LT	CABLE TV	-	804.2 SURV	800.5 *(-)	-	
362		7	20+36, 18' LT	2" GAS	801.7 LEV A	804.2 SURV	800.5 *(-)	-1.2	COLUMBIA GAS B801200199
362		8	20+61, 18' LT	36" STORM	797.5 C	803.7 SURV	800.7	3.2	D02646
362		9	21+16, 20' LT	TELECOMS	-	801.8 SURV	798.8	-	AT&T
362		10	21+67, 24' LT	TELECOMS	-	803.0 SURV	800.0	-	
362		11	21+83, 29' LT	FIBER OPTIC	793.8 LEV A	797.8 SURV	794.8	1.0	
362		12	22+97, 33' LT	12" STORM	-	797.1 SURV	794.1	-	SURVEY
362		13	23+16, 34' LT	2" GAS	792.0 LEV A	793.7 SURV	790.7	-1.3	COLUMBIA GAS B801200199
362		14	23+49, 34' LT	3" WATER	788.3 LEV A	793.0 SURV	790.0	1.7	WL1973-52_005
362		15	23+68, 33' LT	12" STORM	791.8 C	795.0 SURV	792.8 *(+)	1.0	
362		16	24+97, 36' LT	ELECTRIC	-	792.2 SURV	789.2	-	
363		1	15+04, 35' LT	CABLE TV	-	822.6 SURV	819.6	-	
363		2	15+67, 33' LT	9" FIBER OPTIC	815.9 LEV A	820.0 SURV	817.0	1.1	
363		3	15+83, 32' LT	TELECOMS	-	818.1 SURV	815.1	-	
368		1	640+81, 82' LT	TELECOMS	-	764.0 FG	761.0	-	
368		2	643+93, 81' LT	LIGHTING	-	759.5 FG	756.5	-	
368		3	644+71, 77' LT	27" SANITARY	753.6 C	762.4 FG	759.4	5.8	RP02711
369		1	649+54, 75' LT	LIGHTING	-	769.8 S	766.8	-	
369		2	649+74, 83' LT	LIGHTING	-	770.0 S	767.0	-	
369		3	649+87, 94' LT	42" STORM	766.3 C	770.5 S	767.5	1.2	FRA-CR61-4.34
397	420, 596	1	154+75, 104' RT	TELECOMS	-	911.9 S	908.9	-	
397	420, 596	2	154+78, 94' RT	TRAFFIC	-	911.7 S	908.7	-	
397	420, 596	3	154+84, 90' RT	12" STORM	905.9 C	911.8 S	908.8	2.9	FRA-71-28.64
397	420, 596	4	154+95, 95' RT	12" STORM	905.5 C	911.6 S	908.6	3.1	FRA-71-28.64
397	420, 596	5	155+79, 76' RT	TELECOMS	-	903.7 S	900.7	-	
399		1	163+32, 95' RT	8" SANITARY	871.5 C	882.7 S	879.7	8.2	RP07451
409	598	1	156+75, 72' LT	24" STORM	897.9 C	906.0 S	903.0	5.1	FRA-71-28.64
409	598	2	156+91, 74' LT	18" SANITARY	858.9 C	906.5 S	903.5	44.6	RP11928
409	598	3	158+25, 64' LT	TRAFFIC	-	909.0 S	906.0	-	

PRIMARY SHEET #	SECONDARY SHEET #	UTILITY CROSSING ID#	STATION	UTILITY TYPE/SIZE	TOP OF EXISTING UTILITY	EXISTING GROUND ELEVATION	BOTTOM OF PROPOSED ELEVATION	VERTICAL SEPARTION FEET	UTILITY REFERENCE PLAN OR OWNER
409	598	4	158+78, 58' RT	LIGHTING	-	910.0 S	907.0	-	
409	598	5	159+20, 120' RT	LIGHTING	-	903.0 S	900.0	-	
409	598	6	159+44, 129' RT	18" SANITARY	856.2 C	902.0 S	899.0	42.8	RP11928
409	598	7	159+82, 142' RT	8" SANITARY(ABAN)	878.3 C	902.0 S	899.0	20.7	RP09095(RP11928)
409	598	8	160+10, 59' RT	18" SANITARY(ABAN)	857.3 C	904.0 S	901.0	43.7	RP08314
409	598	9	160+33, 128' RT	18" SANITARY	856.1 C	901.0 S	898.0	41.9	RP08313
420	397, 596	1	154+75, 104' RT	TELECOMS	-	911.9 S	908.9	-	
420	397, 596	2	154+78, 94' RT	TRAFFIC	-	911.7 S	908.7	-	
420	397, 596	3	154+84, 90' RT	12" STORM	905.9 C	911.8 S	908.8	2.9	FRA-71-28.64
420	397, 596	4	154+95, 95' RT	12" STORM	905.5 C	911.6 S	908.6	3.1	FRA-71-28.64
420	397, 596	5	155+79, 76' RT	TELECOMS	-	903.7 S	900.7	-	
465		1	57+08, 2' LT	15" STORM	735.8 C	746.3 FG	743.3	7.5	RP01438
487		1	76+15, 54' RT	ELECTRIC	-	822.2 FG	819.2	-	
521		1	176+47, 49' LT	6" GAS	826.8 LEV A	830.7 SURV	827.8 *(+)	1.0	E01643_019(COLUMBIA B801200216
521		2	176+48, 33' LT	TELECOMS	-	830.4 SURV	827.4	-	
521		3	176+51, 16' RT	48" WATER	826.3 LEV A	830.2 SURV	821.1 *(-)	1.0	CTP0182_009 (E01643_019)
521		4	179+67, 61' RT	WATER SERVICE	-	832.2 SURV	829.2	-	
521		5	181+06, 79' RT	ELECTRIC	-	833.7 SURV	830.7	-	
521		6	181+08, 79' RT	2" FIBER OPTIC	829.1 LEV A	834.1 SURV	831.1	1.9	
521		7	181+14, 78' RT	LIGHTING	-	833.5 SURV	830.5	-	
521		8	181+89, 66' RT	LIGHTING	-	833.5 SURV	830.5	-	
521		9	182+01, 64' RT	2" GAS	831.1 LEV A	833.9 SURV	832.1 *(+)	1.0	COLUMBIA GAS B801200216
525		1	226+91, 48' LT	TELECOMS	-	842.0 SURV	839.0	-	AT&T
525		2	227+03, 53' LT	6" GAS	836.2 LEV A	841.8 SURV	838.8	2.6	COLUMBIA GAS A805401191
527		1	236+15, 56' LT	6" GAS	841.2 LEV A	844.2 SURV	842.2 *(+)	1.0	
527		2	236+15, 62' LT	TELECOMS	-	844.2 SURV	841.2	-	AT&T
527		3	236+17, 64' LT	TELECOMS	-	844.2 SURV	841.2	-	AT&T
527		4	236+20, 67' LT	TRAFFIC	-	844.5 SURV	841.5	-	
527		5	236+28, 70' LT	FIBER OPTIC	840.8 LEV A	844.6 SURV	841.8 *(+)	1.0	
527		6	236+43, 71' LT	TRAFFIC	-	844.3 SURV	841.3	-	
527		7	236+44, 71' LT	TRAFFIC	-	844.3 SURV	841.3	-	
527		8	236+48, 70' LT	TRAFFIC	-	844.1 SURV	841.1	-	
531		1	273+46, 57' LT	ELECTRIC	-	855.8 SURV	852.8	-	
531		2	273+49, 63' LT	21" STORM	849.6 C	855.6 SURV	852.6	3.0	FRA-STELZER-ROAD
531		3	273+53, 74' LT	TRAFFIC	-	855.3 SURV	852.3	-	
531		4	273+54, 76' LT	ELECTRIC	-	855.3 SURV	852.3	-	
531		5	273+54, 76' LT	ELECTRIC	-	855.3 SURV	852.3	-	
531		6	273+59, 86' LT	LIGHTING	-	855.5 SURV	852.5	-	
539		1	248+12, 53' LT	48" WATER	843.9 LEV A	850.5 SURV	847.5	3.6	CTP0410_009
539		2	248+12, 54' LT	LIGHTING	-	850.5 SURV	847.5	-	
549		1	34+32, 50' RT	TRAFFIC		857.1 SURV	854.1	-	
549		2	34+38, 51' RT	TRAFFIC		857.1 SURV	854.1	-	
549		3	34+38, 51' RT	3" WATER	853.5 LEV A	857.6 SURV	854.6	1.1	P2655_06
563	105	1	93+11, 38' RT	LIGHTING	-	941.2 FG	938.2	-	
563	105	2	93+13, 62' LT	LIGHTING	-	942.4 FG	939.4	-	
565	181	3	364+33, 100' RT	15" STORM	878.5 C	881.5 FG	879.5 *(+)	1.0	FRA-70-3.41
565	181	4	366+93, 162' RT	LIGHTING	-	880.0 FG	877.0	-	
571	186, 209	1	305+64, 62' LT	120" SANITARY	691.2 C	700.0 FG	697.0	5.8	CC13074
573	212	1	761+62, 143' RT	LIGHTING	-	707.8 FG	704.8	-	
573	212	2	761+62, 145' RT	LIGHTING	-	707.2 FG	704.2	-	
573	212	3	761+60, 158' RT	24" STORM	700.7 C	704.0 FG	701.7 *(+)	1.0	RP11200
578	190	4	357+19, 44' RT	18" STORM	708.8 C	712.0 FG	709.8 *(+)	1.0	FRA-104-8.73
578		5	358+91, 172' LT	8"SANITARY(ABAN)	725.2 C	729.9 FG	726.9	1.7	CC0953
578		6	359+05, 155' LT	LIGHTING	-	729.4 FG	726.4	-	
578	190	7	359+15, 40' RT	8" SANITARY (ABAN)	-	714.0 FG	711.0	-	CC0952 (ABAN PER FRA-104-8.73)
578		8	359+95, 190' LT	ELECTRIC	-	734.0 FG	731.0	-	
581	236	1	277+84, 66' LT	15" STORM (ABAN)	-	782.4 FG	779.4	-	FRA-317-2.72 (FRA-70-21.33)
585	297	1	1615+21, 217' LT	TRAFFIC	-	848.0 FG	845.0	-	
587		2	843+00, 273' LT	42" STORM	966.3 C	975.1 FG	972.1	5.8	FRA-161-16.75
587		3	843+20, 174' LT	TELECOMS	-	974.1 FG	971.1	-	AT&T
587	277	4	843+24, 92' LT	15" STORM	964.5 C	974.4 FG	971.4	6.9	FRA-161-16.75
587	277, 303	5	841+16, 76' LT	42" STORM	961.2 C	970.4 FG	967.4	6.2	FRA-161-16.75
587	277	6	843+08, 64' LT	TELECOMS	-	974.7 FG	971.7	-	
587	277	7	843+08, 63' LT	TRAFFIC	-	974.2 FG	971.2	-	
587	277	8	843+10, 57' LT	42" STORM	961.6 C	973.3 FG	970.3	8.7	FRA-161-16.75
587	277, 303	9	843+57, 93' RT	TRAFFIC	-	975.3 FG	972.3	-	
587	277, 303	10	843+58, 96' RT	TRAFFIC	-	975.1 FG	972.1	-	
590	306	6	1076+26, 453' LT	TRAFFIC (FUTURE)	-	1010.1 FG	1007.1	-	
596	397, 420	1	154+75, 104' RT	TELECOMS	-	911.9 S	908.9	-	
596	397, 420	2	154+78, 94' RT	TRAFFIC	-	911.7 S	908.7	-	
596	397, 420	3	154+84, 90' RT	12" STORM	905.9 C	911.8 S	908.8	2.9	FRA-71-28.64
596	397, 420	4	154+95, 95' RT	12" STORM	905.5 C	911.6 S	908.6	3.1	FRA-71-28.64

FG: SURFACE ELEVATION DETERMINED BY FRANKLIN COUNTY GIS, ACCURACY OF ±0.5'
BG: ELEVATION BELOW GRADE
SURV: SURFACE ELEVATION DETERMINED BY SURVEY
LEVA: FIELD VERIFIED ELEVATION, LEVEL A SUE
LEVB: FIELD VERIFIED ELEVATION, LEVEL B SUE
LEVC: FIELD VERIFIED ELEVATION, LEVEL C SUE
S: ELEVATION SCALED FROM PLANS
C: ELEVATION CALCULATED USING INVERT FROM COC DEPT OF PUBLIC WORKS GIS DATABASE
UND: ELEVATIONS COULD NOT BE DETERMINED FROM RECORD PLANS AND WILL BE SHOWN AFTER THE FIELD SUE INVESTIGATION
–: VARYING ELEVATIONS. DEPTHS ARE UNKNOWN
*(+): PROPOSED CONDUIT HAS BEEN ADJUSTED ABOVE THE TOP OF EXISTING UTILITY TO MEET MINIMUM VERTICAL CLEARANCE REQUIREMENT OF 1.0'
*(–): PROPOSED CONDUIT HAS BEEN ADJUSTED BELOW THE BOTTOM OF EXISTING UTILITY TO MEET MINIMUM VERTICAL CLEARANCE REQUIREMENT OF 1.0'
LEVA PENDING: LEVEL A SUE ELEVATION PENDING

IF THE VERTICAL SEPARATION IS LESS THAN ONE FOOT (1') OR IF THE ELEVATION IS NOT SHOWN OR IS LISTED AS UND, THE CONTRACTOR SHALL EXPOSE THE EXISTING UTILITY AND ADJUST THE PROPOSED CONDUIT DEPTH TO 18"–60" TO MEET VERTICAL CLEARANCE REQUIREMENTS BY DIRECTION OF THE CITY OF COLUMBUS REPRESENTATIVE.

CIP: 540007–100012
PID NUMBER: 99733

UTILITY CROSSING INDEX
2 OF 3

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

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PRIMARY SHEET #	SECONDARY SHEET #	UTILITY CROSSING ID#	STATION	UTILITY TYPE/SIZE	TOP OF EXISTING UTILITY	EXISTING GROUND ELEVATION	BOTTOM OF PROPOSED ELEVATION	VERTICAL SEPARTION FEET	UTILITY REFERENCE PLAN OR OWNER
596	397, 420	5	155+79, 76' RT	TELECOMS	-	903.7 S	900.7	-	
598	409	1	156+75, 72' LT	24" STORM	897.9 C	906.0 S	903.0	5.1	FRA-71-28.64
598	409	2	156+91, 74' LT	18" SANITARY	858.9 C	906.5 S	903.5	44.6	RP11928
598	409	3	158+25, 64' LT	TRAFFIC	-	909.0 S	906.0	-	
598	409	4	158+78, 58' RT	LIGHTING	-	910.0 S	907.0	-	RP09095
598	409	5	159+20, 120' RT	LIGHTING	-	903.0 S	900.0	-	RP08313
598	409	6	159+44, 129' RT	18" SANITARY	857.3 C	902.0 S	899.0	41.7	RP08314
598	409	7	159+82, 142' RT	8" SANITARY(ABAN)	878.3 C	902.0 S	899.0	20.7	RP09095(RP11928)
598	409	8	160+10, 59' RT	18" SANITARY(ABAN)	857.3 C	904.0 S	901.0	43.7	RP08314
598	409	9	160+33, 128' RT	18" SANITARY	856.1 C	901.0 S	898.0	41.9	RP08313
602	203	3	106+65, 41' LT	12" STORM	745.9 C	751.1 SURV	748.1	2.2	FRA-270-18.15S

FG: SURFACE ELEVATION DETERMINED BY FRANKLIN COUNTY GIS, ACCURACY OF ±0.5'
BG: ELEVATION BELOW GRADE
SURV: SURFACE ELEVATION DETERMINED BY SURVEY
LEVA: FIELD VERIFIED ELEVATION, LEVEL A SUE
LEVB: FIELD VERIFIED ELEVATION, LEVEL B SUE
LEVC: FIELD VERIFIED ELEVATION, LEVEL C SUE
S: ELEVATION SCALED FROM PLANS
C: ELEVATION CALCULATED USING INVERT FROM COC DEPT OF PUBLIC WORKS GIS DATABASE
UND: ELEVATIONS COULD NOT BE DETERMINED FROM RECORD PLANS AND WILL BE SHOWN AFTER THE FIELD SUE INVESTIGATION
–: VARYING ELEVATIONS. DEPTHS ARE UNKNOWN
*(+): PROPOSED CONDUIT HAS BEEN ADJUSTED ABOVE THE TOP OF EXISTING UTILITY TO MEET MINIMUM VERTICAL CLEARANCE REQUIREMENT OF 1.0'
*(–): PROPOSED CONDUIT HAS BEEN ADJUSTED BELOW THE BOTTOM OF EXISTING UTILITY TO MEET MINIMUM VERTICAL CLEARANCE REQUIREMENT OF 1.0'
LEVA PENDING: LEVEL A SUE ELEVATION PENDING

IF THE VERTICAL SEPARATION IS LESS THAN ONE FOOT (1') OR IF THE ELEVATION IS NOT SHOWN OR IS LISTED AS UND, THE CONTRACTOR SHALL EXPOSE THE EXISTING UTILITY AND ADJUST THE PROPOSED CONDUIT DEPTH TO 18"–60" TO MEET VERTICAL CLEARANCE REQUIREMENTS BY DIRECTION OF THE CITY OF COLUMBUS REPRESENTATIVE.

3378-E

CIP: 540007–100012
PID NUMBER: 99733

UTILITY CROSSING INDEX
3 OF 3

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

19
915

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R3-1
S1



R3-2
S2



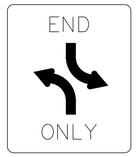
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S3



R3-3
S4



R3-9B
S5



S6



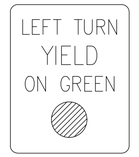
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S7



R3-5L
S8



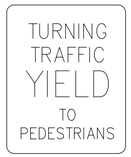
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S9



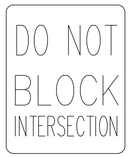
R10-12
S10



S10



S11



R10-7
S12



R5-1
S13



R6-2L
S14



R6-2R
S15



R6-7
S16



R6-6
S17



S18



R9-3a
S19



R3-5a
S20



R3-6R
S21



R3-6LU
S22



R3-17
S23



S24



R5-1A
S25



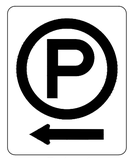
R5-2
S26



S27



D4-1
S28



D4-1
S29



D4-1
S30



R5-H2c
S31



R3-6L
S32



S33



S34



R3-4
S35



S36



R10-5
S37



S38



S39

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R10-12
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EXISTING OVERHEAD SIGNAGE SHOWN ON PLAN SHEETS

3378-E

CIP: 540007-100012
PID NUMBER: 99733

EXISTING OVERHEAD SIGNS

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

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PLAN SHEET DISCLAIMER

EVERY REASONABLE EFFORT HAS BEEN MADE TO ASSURE THE ACCURACY OF THESE PLANS AND ASSOCIATED DATA WITH THE CITY OF COLUMBUS, DEPARTMENT OF PUBLIC UTILITIES FACILITIES. THE CITY OF COLUMBUS, OHIO ASSUMES NO LIABILITY ARISING FROM THE ACCURACY OF THE DEPARTMENT OF PUBLIC UTILITIES FACILITIES DATA IN THESE PLANS OR FOR USE OF THIS DATA FOR PURPOSES NOT RELATED TO THE SUBJECT PROJECT. THIS DISCLAIMER APPLIES TO SHEETS 66-605 OF THIS PLAN SET.

IN AN EFFORT TO INCREASE THE CLARITY AND LEGIBILITY OF THE PLANS, EXISTING UNDERGROUND UTILITIES WILL NOT BE SHOWN UNLESS THERE IS PROPOSED WORK THAT WILL REQUIRE EXCAVATION OR ANY OTHER EARTH DISTURBING ACTIVITY. IF PROPOSED WORK WILL REQUIRE THIS TYPE OF ACTIVITY, EXISTING UNDERGROUND UTILITIES WILL BE PROPERLY INVESTIGATED AND REPRESENTED ON THE PLAN SHEET OF THE RESPECTIVE WORK LOCATION.

PRE-CONSTRUCTION CONFERENCE

UNLESS OTHERWISE PROVIDED FOR IN THE CONTRACT DOCUMENTS, NO WORK SHALL BE COMMENCED UNDER THIS CONTRACT UNTIL A PRECONSTRUCTION CONFERENCE HAS BEEN HELD.

AFTER THE CONTRACT IS FULLY EXECUTED, THE CITY WILL SEND PRECONSTRUCTION CONFERENCE NOTICES TO ALL PARTIES. IN GENERAL, FOURTEEN DAYS ARE REQUIRED TO NOTIFY ALL INTERESTED PARTIES OF A PRECONSTRUCTION CONFERENCE. THE CONTRACTOR SHALL TAKE DUE NOTE OF THIS REQUIREMENT AND AID IN THE TIMELY SCHEDULING OF THE PRECONSTRUCTION CONFERENCE TO AVOID UNNECESSARY DELAYS IN THE COMMENCEMENT OF THE WORK.

PERMITS

WHEN EXCAVATING WITHIN COLUMBUS PUBLIC RIGHT OF WAY LIMITS, THE CONTRACTOR SHALL OBTAIN AND EXCAVATION PERMIT FROM CITY OF COLUMBUS, DEPT. OF PUBLIC SERVICE – PERMIT OFFICE BETWEEN THE HOURS OF 7:30 AM AND 4:00 PM MONDAY THROUGH FRIDAY. PHONE 614-645-7497; FAX: 614-645-1876 EMAIL: COLSPERMITS@COLUMBUS.GOV

UTILITIES

THE IDENTITY AND LOCATION OF EXISTING UNDERGROUND UTILITIES LOCATED IN AND AROUND THE CONSTRUCTION AREA HAVE BEEN SHOWN AND LABELED ON THE PLANS BY USING INFORMATION PROVIDED BY THE RESPECTIVE UTILITY OWNERS. THE CITY OF COLUMBUS OR THE CONSULTING ENGINEER WILL NOT ASSUME RESPONSIBILITY FOR THE ACCURACY OF THE LOCATION OR DEPTH OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON THE PLANS.

SUPPORT AND PROTECTION OF ALL UTILITIES AND APPURTENANCES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. COSTS FOR THE REPAIR AND RESTORATION OF EXISTING UTILITIES DAMAGED BY THE CONTRACTOR SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CITY OF COLUMBUS UTILITIES WILL ONLY LOCATE AND MARK MAIN LINE FACILITIES. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL SERVICE LATERALS AND LINES. COSTS ASSOCIATED WITH THE ABOVE WORK AND RESPONSIBILITIES SHALL BE INCLUDED IN THE PRICE BID FOR VARIOUS ITEMS.

PRIOR TO EXCAVATION THE CONTRACTOR SHALL GIVE A 48-HOUR NOTICE TO THE OHIO UTILITIES PROTECTION SERVICE (OUPS) BY CALLING 800-362-2764. A MINIMUM NOTICE OF 2 WORKING DAYS SHALL ALSO BE GIVEN TO THE OWNERS OF UNDERGROUND UTILITIES SHOWN ON THE PLANS WHO ARE NOT MEMBERS OF A REGISTERED UNDERGROUND PROTECTION SERVICE, EXCEPT FOR ODOT FREEWAY MANAGEMENT SYSTEM FACILITIES WHICH WILL REQUIRE A MINIMUM NOTICE OF 5 WORKING DAYS.

LISTED BELOW ARE UTILITY COMPANIES THAT HAVE FACILITIES LOCATED WITHIN THE WORK LIMITS OF THIS PROJECT AND DO NOT SUBSCRIBE TO A REGISTERED UNDERGROUND PROTECTION SERVICE.

ODOT
FREEWAY MANAGEMENT SYSTEM
1606 WEST BROAD STREET
COLUMBUS, OHIO 43223
PRIMARY: 614-387-4113
SECONDARY: 614-387-4099
CEN.ITS.LAB@DOT.STATE.OH.US

MARTIN E. WHITE
DISTRICT RIGHT OF WAY AGENT
BUCKEYE PIPELINE COMPANY, LP
940 BUCKEYE ROAD
LIMA, OHIO 45804
419-993-8008 – PHONE
419-236-7766 – CELL
MWHITE@BUCKEYE.COM

CHAD HARKNESS
C/O METROPOLITAN COMMUNICATIONS GROUP
AT&T LONG DISTANCE
155 COMMERCE PARK DRIVE
SUITE #1
WESTERVILLE, OHIO 43082
770-584-7083 – CELL
CHAD.HARKNESS@MCGFIBER.COM

THE FOLLOWING CITY OF COLUMBUS, ODOT, FRANKLIN COUNTY, AND PRIVATE UTILITIES ARE LOCATED WITHIN THE WORK LIMITS OF THIS PROJECT AND SUBSCRIBE TO A REGISTERED UNDERGROUND PROTECTION SERVICE:
FAX ALL LOCATION REQUESTS (2) WORKING DAYS PRIOR TO THE START OF CONSTRUCTION

CITY OF COLUMBUS
SUPPORT SERVICES DIVISION – COMM
4211 GROVES ROAD
COLUMBUS, OHIO 43232
JOHN GREMBOWSKI
614-724-4006 – RADIO ROOM
JAGREMBOWSKI@COLUMBUS.GOV
WILLIAM GRIFFITH
614-645-7344 X100 – PHONE
WRGRIFFITH@COLUMBUS.GOV

STEPHEN A RENNER
DIRECTOR, FRANKLIN COUNTY
SANITARY ENGINEERS
280 EAST BROAD STREET, STE. 201
COLUMBUS, OH 43215
614-525-5850 – DIRECT
614-525-3940 – OFFICE
614-525-5210 – FAX
SARENNER@FRANKLINCOUNTYOHIO.GOV

CITY OF COLUMBUS
DIVISION OF POWER
3500 INDIANOLA AV.
COLUMBUS, OHIO 43214
614-645-7267 – VOICE

CITY OF COLUMBUS
DIVISION OF WATER
910 DUBLIN ROAD
COLUMBUS, OHIO 43215
614-645-7788 – OFFICE

ODOT
DISTRICT 6 MAINTENANCE OF TRAFFIC
400 E. WILLIAMS STREET
DELAWARE, OHIO 43015
740-833-8433 – OFFICE
MOT ENGINEER – GARY FETHEROLF
740-833-8162 – OFFICE
740-601-8817 – CELL
TRAFFIC ENGINEER – DAVID CARLIN
740-833-8267 – OFFICE

ROD SLONEKER
(CITY PROJECTS/DISTRIBUTION)
ENGINEERING LIAISON COORDINATOR
AMERICAN ELECTRIC POWER
700 MORRISON ROAD
GAHANNA, OHIO 43230
614-883-6817 – OFFICE
614-301-4977 – CELL
614-883-6868 – FAX
RISLONEKER@AEP.COM
SOLUTION CENTER: 800-277-2177

MICHAEL CARR (TRANSMISSION)
TRANSMISSION LINE
PROJECT ENGINEERING
AMERICAN ELECTRIC POWER
700 MORRISON ROAD
GAHANNA, OHIO 43230
614-552-1893 – OFFICE
614-552-1818 – FAX
TL_PUBLICPROJECTS@AEP.COM

CITY OF COLUMBUS
DEPARTMENT OF TECHNOLOGY
1355 MCKINLEY AVENUE
BUILDING C
COLUMBUS, OHIO 43222
614-645-7756
DWMCNALLY@COLUMBUS.GOV
ALSO COPY:
DARRYL JOYCE, DHJOYCE@COLUMBUS.GOV
SIDNEY HALE, SJHALE@COLUMBUS.GOV
BRIAN MICKLEY,
BCMICKLEY@COLUMBUS.GOV

CITY OF COLUMBUS
DEPARTMENT OF PUBLIC SERVICE
TRAFFIC MANAGEMENT
1820 E 17TH AVE
COLUMBUS, OHIO 43219
614-645-7393 – OFFICE

JAMES (JIM) SCOTT
LAND AGENT
TRANSCANADA/COLUMBIA PIPELINE GROUP
1440 MCNAUGHTEN ROAD
COLUMBUS, OHIO 43232
740-746-2234 – OFFICE
740-304-4304 – CELL
JAMES_SCOTT@TRANSCANADA.COM

MATT BLACKSTONE
OPERATIONS MANAGER
COLUMBUS FIBERNET
1600 WALCUTT ROAD
COLUMBUS, OHIO 43228
614-921-8524 – OFFICE
614-395-9701 – CELL
MABLACKSTONE@COLUMBUSFIBER.NET
CFNINFO@COLUMBUSFIBER.NET

JON TARNOWSKI
MANAGER-FIBER CONSTRUCTION
LIGHTOWER FIBER NETWORKS (AKA FIBERTECH NETWORKS)
470 -B SCHROCK ROAD
COLUMBUS, OHIO 43229
585-445-5813 – OFFICE
585-465-1261 – CELL
JTARNOWSKI@LIGHTOWER.COM
FOR LIGHTOWER MAPPING COPY
MAPPINGREQUESTS@LIGHTOWER.COM

WARREN "MIKE" BATH
CONSTRUCTION SUPERVISOR
CHARTER COMMUNICATIONS
(AKA TIME WARNER COMM/INSIGHT)
3760 INTERCHANGE ROAD
COLUMBUS, OHIO 43204
614-827-7974 – OFFICE
614-332-2337 – CELL
WARREN.BATH@CHARTER.COM

ERIC L. ALEXANDER
DIRECTOR, RETAIL FIELD OPERATIONS
CITYNET
779 BROOKSEDGE BOULEVARD
WESTERVILLE, OH 43081
614-364-7825 – OFFICE
614-989-9655 – CELL
ERIC.ALEXANDER@CITYNET.NET

GROVER CRAWFORD
ENGINEERING PROJECT MANAGER
HORIZON NETWORK PARTNERS
500 S. FRONT STREET
COLUMBUS, OHIO 43215
740-772-8273 – OFFICE
GROVER.CRAWFORD@HORIZONTEL.COM

CHARLES JOHNSON
MANAGER OSPE
AT&T (FKA SBC)
2932 6TH STREET
IRONTON, OHIO 45638
740-532-9943 – OFFICE
740-601-4380 – CELL
CJ3237@ATT.COM
REPAIR SERVICE:
888-611-4466
DAMAGE PREVENTION:
937-296-3929

GARY VANALMSICK
TELECOM SPECIALIST
AT&T (FKA SBC)
111 NORTH 4TH STREET
COLUMBUS, OHIO 43215
614-223-7276
GV2758@ATT.COM

JOSEPH J. THOMAS
OSP ENGINEER
SPRINT ACCOUNT
11370 ENTERPRISE PARK DR.
SHARONVILLE, OHIO 45241
440-447-6163 – OFFICE
937-209-9754 – CELL
JOSEPH.J.THOMAS@SPRINT.COM

AARON ROLL
DIRECTOR OF FIELD OPERATIONS
SUBURBAN NATURAL GAS
2626 LEWIS CENTER RD.
LEWIS CENTER, OHIO 43035
740-548-2450 – OFFICE
614-419-1103 – CELL
740-548-2455 – FAX
AROLL@SNGCO.COM

KEN WULF
MANAGER FIELD OPERATIONS
LEVEL 3 COMMUNICATIONS
580 N. FOURTH ST., SUITE 100
COLUMBUS, OH 43215
614-441-0103 – OFFICE
720-567-1042 – FAX
614-286-7393 – CELL
KEN.WULF@LEVEL3.COM

SAM LUTZ
CONSTRUCTION SUPERVISOR
CHARTER COMMUNICATIONS
(AKA TIME WARNER COMM)
3760 INTERCHANGE ROAD
COLUMBUS, OHIO 43204
614-481-5047 – OFFICE
614-348-2966 – CELL
SAMUEL.LUTZ@CHARTER.COM

GREG NEWMAN
ADV. SENIOR R/W SPECIALIST
MARATHON PIPE LINE LLC
LEXINGTON, OHIO 44904
419-884-0800, X-236
419-564-8826 – CELL
419-884-3717 – FAX
GCNEWMAN@
MARATHONPETROLEUM.COM
ALSO COPY ED MAY AT
EDMAY@
MARATHONPETROLEUM.COM

ROB CALDWELL
LEADER FIELD ENGINEERING
COLUMBIA GAS OF OHIO
3350 JOHNNY APPLESEED CT.
COLUMBUS, OHIO 43231
614-818-2104 – OFFICE
614-370-1906 – CELL
RCALDWELL@NISOURCE.COM
CUSTOMER SERVICE:
800-344-4077
DAMAGE PREVENTION:
866-632-6243
COLUMBIAGAS_COLUMBUSENG
@NISOURCE.COM

STEVEN CALLAHAN
CONSTRUCTION ENGINEER
WOW! INTERNET CABLE & PHONE
3675 CORPORATE DRIVE
COLUMBUS, OH 43231
614-948-4636 – OFFICE
614-749-2225 – CELL
111-111-1111 – FAX
STEVEN.CALLAHAN@WOWINC.COM
COLFR@WOWINC.COM

AL GUEST
OUTSIDE PLANT ENGINEER
VERIZON BUSINESS (AKA MCI)
XO COMMUNICATIONS
120 RAVINE STREET
AKRON, OHIO 44303
330-253-8267 – OFFICE
330-535-9056 – FAX
330-329-5495 – CELL
ALLAN.GUEST
@VERIZONBUSINESS.COM

TOM MUSICK
VP, ENGINEERING & OPERATIONS
SOUTH CENTRAL POWER
P.O. BOX 250
LANCASTER, OHIO 43130
740-653-4422
MUSICK@SOUTHCENTRALPOWER.COM

LEON TAYLOR
OSPE ENGINEERING &
CONSTRUCTION MANAGER
WINDSTREAM-KDL INC.
50 EXECUTIVE PKWY
HUDSON, OH 44236
330-650-7663 – OFFICE
937-725-5358 – CELL
LEON.TAYLOR@WINDSTREAM.COM

MARK CALLAHAN
OPERATIONS ENGINEER
NE OHIO NATURAL GAS CORP.
5640 LANCASTER-NEWARK RD.
PLEASANTVILLE, OHIO 43148
740- 862-3300 X247 – OFFICE
740-862-6330 – FAX
740-808-6040 – CELL
MCALLAHAN@NEOGAS.COM

LEVEL 3 COMMUNICATIONS
(FKA TW TELECOM INC.)
250 W. OLD WILSON BRIDGE,
SUITE 130
RELO@LEVEL3.COM
LEVEL3.NETWORKRELOCATIONS
@LEVEL3.COM

SEAN PUMMEL
PRODUCT ENGINEER
WOW! BUSINESS (AKA BLUEMILE)
22 DATA CENTER DIRECTOR
6 NORTH 5TH ST.
COLUMBUS, OH 43215
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614-270-2978 – CELL
SPUMMEL@WIDEOPENWEST.COM

FRANKLIN COUNTY
ENGINEER'S OFFICE
STEVE BUSKIRK UTIL COORDINATOR
970 DUBLIN ROAD
COLUMBUS, OH 43215
614-525-3063
614-525-3072 24-HR
STORM SEWER & TRAFFIC LOOPS

CATHY BITLER
VP, MEMBER SERVICE
AND COMMUNITY RELATIONS
SOUTH CENTRAL POWER
PO BOX 250
LANCASTER, OH 43130
740-689-6282 – OFFICE
BITLER@SOUTHCENTRALPOWER.COM

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CHARTER COMMUNICATIONS
(AKA TIME WARNER COMM/INSIGHT)
3760 INTERCHANGE ROAD
COLUMBUS, OHIO 43204
614-255-0855 – OFFICE
614-679-1521 – CELL
ANTHONY.ADAMS1@CHARTER.COM

ANDY VOLENIK
PLANNING AND OPERATIONS
TRAFFIC SIGNALS
1820 E. 17TH AVE.
COLUMBUS, OHIO 43219
614-645-7799 – OFFICE
AMVOLENIK@COLUMBUS.GOV

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CIVIL ENGINEER
33 NORTH HIGH STREET
8TH FLOOR OF
WILLIAM J. LHOTA BUILDING
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CITY OF COLUMBUS
DIV. OF SEWERAGE AND DRAINAGE
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SMOC (SEWER MAINTENANCE
OPERATIONS CENTER)
614-645-7102
THIS OFFICE OPERATES 24/7.

DAVE WOLF
ENGINEERING SUPERVISOR
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CIP: 540007-100012
PID NUMBER: 99733

GENERAL NOTES SHEET
1 OF 11

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

3378-E

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EMERGENCY PROVISIONS

THE CONTRACTOR SHALL PROVIDE TO THE CITY OF COLUMBUS 24–HOUR EMERGENCY TELEPHONE NUMBERS, IN WRITING, PRIOR TO THE START OF CONSTRUCTION.

CONFLICTS WITH STREET TREES

CONTRACTOR SHALL CONTACT THE FORESTRY SECTION OF RECREATION AND PARKS DEPARTMENT WHEN A CONFLICT WITH STREET TREES EXISTS AT (614) 645–6640. APPROVAL REQUIRED PRIOR TO WORK COMMENCING.

CONTINGENCY QUANITIES

THE CONTRACTOR SHALL NOT ORDER MATERIALS OR PERFORM WORK SHOWN, LABELED, OR LISTED AS CONTINGENCY OR REFERENCED BY PLAN NOTE TO BE USED "AS DIRECTED BY THE ENGINEER," UNLESS AUTHORIZED BY THE ENGINEER, OR AN ACCEPTABLE REPRESENTATIVE FOR THE CITY OF COLUMBUS DIVISION OF DESIGN AND CONSTRUCTION.

DUST CONTROL

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED TO BE USED AT THE DIRECTION OF THE ENGINEER FOR THE PURPOSE OF DUST CONTROL WITHIN THE PROJECT LIMITS:

ITEM 616 – CALCIUM CHLORIDE	24 TONS
ITEM 616 – WATER	10 THOUSAND GALLONS

WATERING PERMANENT SEEDED AREAS

THE FOLLOWING ESTIMATED QUANTITY IS TO BE USED AS DIRECTED BY THE ENGINEER TO PROMOTE GROWTH FOR THE PERMANENT SEEDED AREAS AS PER 659.09:

ITEM 659 – WATER	10 THOUSAND GALLONS

CONCRETE WALKS, AS PER PLAN

ALL EXISTING CONCRETE SIDEWALKS BEING REPLACED WITH NEW CONCRETE SIDEWALKS SHALL BE REMOVED AT AN EXISTING JOINT AND REPLACED AS PER SCD 2300.

ALL EXISTING CONCRETE SIDEWALKS NOT SCHEDULED FOR REPLACEMENT BUT BEING CROSSED BY THE INSTALLATION OF TRAFFIC ITEMS, ELECTRICAL CONDUIT, PIPING, ETC SHALL BE FULLY REMOVED AT AN EXISTING JOINT AND REPLACED AS PER STANDARD DRAWING 2300 UNLESS NOTED OTHERWISE. PAYMENT SHALL BE INCLUDED IN THE PRICE BID FOR ITEM 608, CONCRETE WALK.

IF EXISTING CURB RAMPS ARE DISTURBED – REPLACE WITH TYPE 'A' CURB RAMPS PER SCD 2319.

DEPENDENT ON LOCATION OF EXISTING WALK BEING REPLACED – 8" THICK WALK MAY BE REQUIRED WITHIN TURN RADIUS, SEE SCD 2303 FOR DETAILS.

IN CONJUNCTION WITH ANY CURB RAMP REPLACEMENT: TYPE 'E' DETECTABLE WARNINGS SHALL BE INSTALLED.

WORK LIMITS

THE WORK LIMITS SHOWN ON THESE PLANS ARE FOR PHYSICAL CONSTRUCTION ONLY. THE INSTALLATION AND OPERATION OF ALL TEMPORARY TRAFFIC CONTROL AND TEMPORARY TRAFFIC CONTROL DEVICES REQUIRED BY THESE PLANS SHALL BE PROVIDED BY THE CONTRACTOR WHETHER INSIDE OR OUTSIDE OF THESE WORK LIMITS.

C.O.T.A. – BUS SHELTERS/PADS

THE CONTRACTOR SHALL NOTIFY SENIOR SERVICE PLANNER OF COTA AT PH – (614) 308–4373 OR FAX – (614) 275–5933 A MINIMUM OF TWO WEEKS PRIOR TO THE REQUIRED REMOVAL OF A BUS SHELTER. COTA WILL DISASSEMBLE THE SHELTER AND THEN REINSTALL IT ONCE THE NEW CONCRETE SLAB IS IN PLACE. CONTRACTOR SHALL CONSTRUCT THE SLAB AS DIRECTED BY THE PLANS OR OTHER CONTRACT DOCUMENTS. ALL CONTRETE BUS PAD WORK REQUIRES PRIOR AUTHORIZATION OF THE ENGINEER AND SHALL BE PAID FOR VIA FORCE ACCOUNT AS A PER ITEM SPECIAL, REMOVE AND REPLACE BUS SHELTER SLAB, WITH THE CONTRACT UNIT PRICE PER EACH. THIS PAY ITEM SHALL INCLUDE ALL EXCAVATION AND REMOVAL WORK, EXPANSION JOINT MATERIAL, ITEM 608 – 6" CONCRETE WALK, AND ANY OTHER WORK AS REQUIRED OR DIRECTED BY THE ENGINEER.

BENCHMARKS AND SURVEY MONUMENTS

ANY ELEVATIONS IDENTIFIED ARE BASED ON 1988 NORTH AMERICAN VERTICAL DATUM (NAVD 88).

ANY VERTICAL CONTROL POINTS SET USED A COUNTY, OR CITY CERTIFIED SOURCE MONUMENT FOR ITS POINT OF ORIGIN, AND ARE CALLED OUT AND SHOWN ON THE PLAN AND PROFILE SHEETS AND/OR SCHEMATIC SHEET.

DO NOT DISTURB ANY FRANKLIN COUNTY CERTIFIED BENCHMARKS (VERTICAL AND/OR HORIZONTAL) LOCATED WITHIN THE WORKING LIMITS OF THE PROJECT. CONTRACTOR SHALL CONTACT THE FRANKLIN COUNTY SURVEY DEPARTMENT (614) 462–3026, PRIOR TO CONSTRUCTION, TO COORDINATE THE PROPER PROCEDURES FOR THE RESETTING, RELOCATION, OR REPLACEMENT OF ANY FRANKLIN COUNTY CERTIFIED BENCHMARK OR SURVEY MONUMENT.

ALL EXISTING RIGHT–OF–WAY MARKERS, CENTERLINE MARKERS, OR SURVEY MONUMENTS FOUND WITHIN THE WORK LIMITS OF OR ADJACENT TO THE PROJECT ARE SHOWN AND LABELED ON THE PLANS.

ANY CONSTRUCTION CONTROL POINTS SET FOR THIS PROJECT HAVE BEEN SUPPLIED WITH THREE POINT REFERENCES.

LIMITED ACCESS RIGHT OF WAY (LA R/W)

THE LA R/W INFORMATION SHOWN ON THE PLANS CAME FROM A VARIETY OF SOURCES; FOR MOST AREAS, AN ACTUAL FIELD SURVEY OF AREAS WAS NOT CONDUCTED; AND THE LA R/W INFORMATION WAS OBTAINED FROM FRANKLIN COUNTY MAPPING, FRANKLIN COUNTY AUDITOR AND EXISTING RECORD PLANS.

RIGHT OF WAY ENCROACHMENTS

DURING THE DESIGN STAGES OF THIS PROJECT, ZERO POTENTIAL ENCROACHMENTS INTO PUBLIC RIGHT OF WAY WERE IDENTIFIED. FIELD INVESTIGATION, AND COLUMBUS AND FRANKLIN COUNTY RECORD PLANS WERE USED TO RESEARCH THE POTENTIAL ENCROACHMENTS.

CLEARING AND GRUBBING

THE CITY OF COLUMBUS RESERVES THE RIGHT TO ORDER THE REMOVAL OF TREES OR STUMPS OUTSIDE THE LIMITS OF CONSTRUCTION BUT WITHIN THE RIGHT–OF–WAY AND / OR EASEMENT LINES. PAYMENT FOR REMOVAL OF THESE TREES OR STUMPS SHALL BE INCLUDED IN THE LUMP SUM BID PRICE FOR ITEM 201, CLEARING AND GRUBBING.

ALL TREES AND STUMPS SPECIFICALLY MARKED FOR REMOVAL WITHIN THE CONSTRUCTION LIMITS SHALL BE REMOVED UNDER THE LUMP SUM BID FOR ITEM 201, CLEARING AND GRUBBING. THE FOLLOWING IS AN APPROXIMATE ESTIMATE OF THE NUMBER OF TREES AND STUMPS TO BE REMOVED.

SIZES	NO. TREES	NO. STUMPS	TOTAL
18	0	0	0
30	0	0	0
48	0	0	0
60	0	0	0

BRICK SEWERS

THE CONTRACTOR SHALL MAINTAIN A MINIMUM CLEARANCE OF 10' HORIZONTAL AND 5' VERTICAL FROM THE OUTSIDE DIAMETER OF ALL BRICK/SEGMENTED BLOCK SEWERS. THE SEWERS MUST BE LABELED "BRICK" AND THE OUTSIDE DIAMETER PIPE SIZE INDICATED ON THE PLANS. BRICK/BLOCK SEWERS SHALL NOT BE EXPOSED, AS IT MAY CAUSE COLLAPSE OF THE SEWER DUE TO REMOVAL OF THE BACKFILL MATERIAL.

C.O.T.A. SIGN AND/OR BUS STOPS

PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL CONTACT THE SENIOR SERVICE PLANNER OF THE CENTRAL OHIO TRANSIT AUTHORITY (COTA) @ PH– (614) 308–4373 OR FAX– (614) 275–5933 A MINIMUM OF TWO WEEKS PRIOR TO THE CONSTRUCTION NEAR A COTA BUS STOP TO COORDINATE PROPER BUS MOVEMENTS THROUGH OR AROUND THE JOB SITE DURING THE PROJECT. THIS WILL INCLUDE, BUT NOT BE LIMITED TO, THE TEMPORARY RELOCATION OR REMOVAL OF COTA SIGNS AND/OR BUS STOP LOCATIONS.

ITEM 633 – SIGNALIZATION, MISC.: SYSTEM INTEGRATION, LUMP SUM

THIS PAY ITEMS INCLUDES ALL WORK REQUIRED TO SEAMLESSLY INTEGRATE PHASE E SIGNALS AND COMPONENTS INTO THE CSS SYSTEM, IN ORDER TO ACHIEVE THE SAME LEVEL OF FUNCTIONALITY OF THE PHASE E INTERSECTIONS AS HAS BEEN ESTABLISHED THROUGH THE PREVIOUS CTSS PHASE INSTALLATION. FOR MORE INFORMATION, SEE SP–103.

MANHOLE AND / OR INLET ADJUSTED TO GRADE

BEFORE ADJUSTING EXISTING MANHOLES AND/OR CURB INLETS TO GRADE, THE CONTRACTOR, IN THE PRESENCE OF THE CITY ENGINEER OR AN ACCEPTABLE REPRESENTATIVE, SHALL INSPECT SAID STRUCTURES. IF STRUCTURES ARE IN POOR CONDITION, THEY SHALL BE REPLACED WITH NEW STRUCTURES AT THE APPROPRIATE ELEVATIONS.

MAINTAIN DRAINAGE

THE CONTRACTOR AT HIS OWN EXPENSE SHALL MAINTAIN THE FLOW IN ALL SEWERS, DRAINS, FIELD TILES, AND WATERCOURSES ENCOUNTERED IN AND AROUND THE PROJECT SITE. IF SUCH WATERCOURSES OR DRAINS ARE DISTURBED OR DESTROYED DURING THE EXECUTION OF THE PROJECT, THEY SHALL BE RESTORED BY THE CONTRACTOR AT HIS OWN EXPENSE TO A CONDITION SATISFACTORY TO THE ENGINEER.

USE OF HYDRANTS

THE CONTRACTOR SHALL OBTAIN THE PROPER HYDRANT PERMIT(S), AND PAY ANY APPLICABLE FEES, FOR ANY APPROVED HYDRANT USAGE DEEMED NECESSARY FOR WORK UNDER THIS IMPROVEMENT. PERMITS MAY BE OBTAINED THROUGH THE DIVISION OF WATER PERMIT OFFICE (645–7330). THE CONTRACTOR SHALL ADHERE TO ALL RULES AND REGULATIONS GOVERNING SAID PERMIT AND MUST HAVE THE ORIGINAL PERMIT ON SITE ANY TIME IN WHICH THE HYDRANT IS IN USE. COST TO BE INCLUDED IN THE VARIOUS BID ITEMS.

MONUMENTED RIGHT–OF–WAY AND PROPERTY CORNERS

AVOID DISTURBING EXISTING RIGHT–OF–WAY OR PROPERTY CORNER MARKERS DURING CONSTRUCTION. IF DISTURBED DURING CONSTRUCTION, THE MARKERS SHALL BE REPLACED PER CITY OF COLUMBUS CONSTRUCTION AND MATERIAL SPECIFICATIONS, SECTION 107.12.

SECURING EXCAVATIONS & TRENCHES FOR NON–WORKING HOURS

EXCAVATIONS AND TRENCHES OVER 24–INCHES DEEP SHALL BE SECURELY PLATED, OR BACKFILLED DURING NON–WORKING HOURS.

ITEM SPEC. – CRITICAL PATH METHOD PROGRESS SCHEDULE FOR LONG DURATION PROJECTS

THIS ITEM SHALL COMPLY WITH CMSC SECTION 108.3 – "TYPE 'B' CPM PROGRESS SCHEDULE"

PAVEMENT CUTTING, SAWING AND EXCAVATION OPERATIONS NOTE:

ALL PUBLIC AGENCIES AND PRIVATE CONTRACTORS PERFORMING PAVEMENT–CUTTING OPERATIONS ON CITY OF COLUMBUS STREETS AND ROADWAYS SHALL PROTECT THE ENVIRONMENT FROM DISCHARGES CREATED BY THEIR PAVEMENT CUTTING OPERATIONS. NOTE THAT COLUMBUS CITY CODE 1145 PROHIBITS NON–STORMWATER DISCHARGE INTO THE CITY OF COLUMBUS SEWER SYSTEM, CURB INLETS AND ANY PART OF ITS MS4 (MUNICIPAL SEPARATE STORM SEWER SYSTEM).

THIS REQUIREMENT INCLUDES BUT IS NOT LIMITED TO WET OR DRY SAW CUTTING, JACK HAMMERING, EXCAVATION EQUIPMENT USE, ETC. THE PUBLIC AGENCY AND/OR PRIVATE CONTRACTOR WORK CREWS SHALL RECOVER AND DISPOSE OF DETRITUS, POLLUTED WATERS, OR OTHER SUCH DISCHARGES RESULTING FROM THEIR PAVEMENT CUTTING OPERATIONS AND PROTECT ALL STORM SEWER INLETS FROM RECEIVING ANY DISCHARGES FROM THE CONSTRUCTION OPERATIONS. THE AGENCY OR CONTRACTOR RESPONSIBLE FOR EACH PAVEMENT CUTTING ACTIVITY SHALL BE SOLELY LIABLE FOR NOTICE OF VIOLATIONS (NOVs) AND FINES ISSUED BY THE CITY OF COLUMBUS AND/OR STATE OF OHIO AUTHORITIES.

EQUIPMENT, MATERIALS AND METHODS SHALL BE PROVIDED BY THE RESPONSIBLE PUBLIC AGENCY AND/OR PRIVATE CONTRACTOR TO WORK CREWS PERFORMING THE PAVEMENT CUTTING ACTIVITY AND MADE AVAILABLE TO WORK CREWS FOR USE IN CLEANING UP DISCHARGES RESULTING FROM SUCH CUTTING ACTIVITIES AND PREVENTING RUNOFF. ALL WORK CREWS SHALL BE TRAINED TO EXERCISE AND EMPLOY EQUIPMENT, MATERIALS, AND ENVIRONMENTAL PROTECTIVE MEASURES TO PREVENT POLLUTED DISCHARGES FROM ENTERING THE CITY OF COLUMBUS STORM SEWER SYSTEM AND WATERS OF THE STATE OF OHIO.

THE PUBLIC AGENCY AND/OR PRIVATE CONTRACTOR IS SOLELY RESPONSIBLE FOR ENSURING THAT THE INLET PROTECTION IS ADEQUATE. THE MOST STRINGENT PROJECT PLANS, NOTES AND/OR DRAWINGS INCLUDING STORMWATER POLLUTION PREVENTION PLAN (SWP3) OR SPILL PREVENTION/REMEDIATION PLAN SHALL APPLY TO ALL PAVEMENT CUTTING, SAWING OR EXCAVATION OPERATIONS.

NOTE TO SPECIFICATION WRITERS: IF SWP3 OR SPILL PREVENTION/REMEDIATION PLANS ARE INCLUDED IN CONTRACT DOCUMENTS, THEY SHOULD BE CITED IN THE LAST PARAGRAPH ABOVE BY VOLUME, PAGE OR SHEET NUMBERS; SO DIRECTING THE READER TO SUCH PLAN.

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GENERAL NOTES SHEET
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CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

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TREE PROTECTION DURING CONSTRUCTION

PUBLIC TREES WILL BE PROTECTED AGAINST INJURY OR DAMAGE TO ROOTS, TRUNKS, OR BRANCHES FROM EXCAVATIONS AND CONSTRUCTION. THIS SHALL BE DONE IN ACCORDANCE WITH THE CITY OF COLUMBUS, FORESTRY SECTION AND BY THE FOLLOWING REQUIREMENTS:

- ALL TREE PRUNING AND REMOVAL MUST BE DONE IN ACCORDANCE TO ANSI A300 AND ANSI Z133.1 STANDARDS. THE CONTRACTOR PERFORMING THE WORK MUST BE A PROFESSIONAL TREE CARE COMPANY WITH A CERTIFIED ARBORIST ON STAFF AND AVAILABLE TO DIRECT THE ON-SITE CREW.
- HEAVY EQUIPMENT WILL NOT BE ALLOWED TO COMPACT THE SOIL OVER THE CRITICAL ROOT ZONE (AREA FROM TRUNK TO ONE FOOT BEYOND DRIPLINE) OF EXISTING TREES. RESTRICTED EQUIPMENT ACCESS ROUTES WILL BE ESTABLISHED BEFORE WORK IS BEGUN. TEMPORARY PAVING MATERIALS SUCH AS PLYWOOD OR RUBBER MATTING SPREAD OVER THE ROOT ZONE MAY BE REQUIRED TO PREVENT COMPACTION.
- INSTALLATION OF UTILITIES UNDER THE DRIPLINE OF EXISTING TREES MUST BE DIRECTIONALLY BORED OR DRILLED BELOW THE ROOT ZONE. TOP OF THE BORE OR TUNNEL SHOULD BE NO HIGHER THAN 3 FEET DEEP. OPEN TRENCHES WITHIN THE ROOT ZONE MUST BE AVOIDED. WHEN ROOTS MUST BE SEVERED, CLEAN CUTS MUST BE MADE WITH PROPER PRUNING TOOLS.
- WHERE GRADE CHANGE IS REQUIRED WITHIN THE ROOT ZONE OF PUBLIC TREES, A SUFFICIENT RESIDUAL ROOT ZONE TO PROVIDE FOR THE GOOD HEALTH OF THE TREES SHOULD REMAIN UNDISTURBED AND PROTECTED BY EITHER A DRY WELL OR RETAINING WALL IF THE GRADE IS TO BE RAISED OR LOWERED.
- CONSTRUCTION MATERIALS, EXCAVATION DEBRIS, CHEMICALS, FUEL, EQUIPMENT OR VEHICLES ARE NOT TO BE STOCKPILED, STORED, DUMPED OR PARKED WITHIN THE DRIPLINE OF PUBLIC TREES.
- FIRES ARE NOT PERMITTED WITHIN THE DRIPLINE OF ANY TREES.
- ALL EXISTING TREES DESIGNATED FOR PRESERVATION WILL BE PROTECTED WITH A GOOD, SUBSTANTIAL FENCE, FRAME OR BOX NOT LESS THAN FOUR FEET HIGH AND AS FAR FROM THE TREE AS POSSIBLE. DRIPLINE IS PREFERABLE, HOWEVER, ACTUAL LOCATION WILL BE DETERMINED BY SITE LIMITATIONS.
- FENCING WILL BE INSTALLED BEFORE COMMENCING SITE PREPARATION WORK. FENCE MUST BE MAINTAINED DURING THE FULL CONSTRUCTION PERIOD.

ANY TREES DAMAGED OR DESTROYED DUE TO CONTRACTOR NEGLIGENCE WILL BE TREATED OR REMOVED AT THE CONTRACTOR'S EXPENSE. IF DAMAGED BEYOND REPAIR, THE CITY WILL REQUIRE REIMBURSEMENT FOR THE VALUE OF THE TREE AS DETERMINED BY THE CURRENT EDITION OF THE 'GUIDE FOR PLANT APPRAISAL' PUBLISHED BY THE INTERNATIONAL SOCIETY OF ARBORICULTURE.

DIVISION OF POWER

THE DIVISION OF POWER (DOP) MAY HAVE UNDERGROUND AND OVERHEAD PRIMARY, SECONDARY, AND STREET LIGHTING, AT THIS WORK LOCATION. THE CONTRACTOR IS HEREBY REQUIRED TO CONTACT OUPS AT 811 OR 1-800-362-2764 FORTY-EIGHT HOURS PRIOR TO CONDUCTING ANY ACTIVITY WITHIN THE CONSTRUCTION AREA.

ANY REQUIRED RELOCATION, SUPPORT, PROTECTION, OR ANY OTHER ACTIVITY CONCERNED WITH THE CITY'S ELECTRICAL FACILITIES IN THE CONSTRUCTION AREA IS TO BE PERFORMED BY THE CONTRACTOR UNDER THE DIRECTION OF DOP PERSONNEL AND AT THE EXPENSE OF THE PROJECT. THE CONTRACTOR SHALL USE MATERIAL AND MAKE REPAIRS TO A CITY OF COLUMBUS STREET LIGHTING SYSTEM BY FOLLOWING DOP'S "MATERIAL AND INSTALLATION SPECIFICATIONS" (MIS) AND THE CITY OF COLUMBUS "CONSTRUCTION AND MATERIAL SPECIFICATIONS" (CMS). ANY NEW OR RE-INSTALLED UNDERGROUND STREETLIGHT SYSTEM SHALL REQUIRE TESTING AS REFERRED TO IN SECTION 1000.18 OF THE CMS MANUAL. THE CONTRACTOR SHALL CONFORM TO DOP'S EXISTING CONDUCTOR SAFETY POLICY AND HOLD CARD SYSTEM, MIS-95, COPIES OF WHICH ARE AVAILABLE FROM DOP.

IF ANY ELECTRIC FACILITY BELONGING TO DOP IS DAMAGED IN ANY MANNER BY THE CONTRACTOR, ITS AGENTS, SERVANTS, OR EMPLOYEES, AND REQUIRES EMERGENCY REPAIRS, THE DOP DISPATCH OFFICE SHOULD BE CONTACTED IMMEDIATELY AT 614-645-7627. DOP SHALL MAKE ALL NECESSARY REPAIRS, AND THE EXPENSE OF SUCH REPAIRS AND OTHER RELATED COSTS SHALL BE PAID BY THE CONTRACTOR TO THE DIVISION OF POWER, CITY OF COLUMBUS, OHIO.

THE CONTRACTOR SHALL EXERCISE CAUTION AND FOLLOW ALL APPLICABLE SAFETY PROCEDURES WHEN WORKING ON OR NEAR A COMBINATION POLE--TRAFFIC SIGNAL POLE WITH AN ATTACHED STREET LIGHT LUMINAIRE. THE MAJORITY OF STREET LIGHTS OPERATE ON 480 VAC; SO GIVEN THAT SITUATION, THE CONTRACTOR CAN EXPECT 480 VAC STREET LIGHT WIRING TO BE CONTAINED INSIDE OR ATTACHED TO THE TRAFFIC SIGNAL POLE. IN CASE OF QUESTIONS REGARDING THE VOLTAGE OF A STREET LIGHT ON A COMBINATION POLE, THE CONTRACTOR SHALL CONTACT THE DIVISION OF POWER AT (614) 645-7627 OR THE DIVISION OF PLANNING AND OPERATIONS AT (614) 645-7933.

MISCELLANEOUS WORK ITEMS

THE CONTRACTOR SHALL PERFORM ALL ITEMS OF WORK CALLED FOR ON THE PLANS, FOR WHICH NO SPECIFIC METHOD OF PAYMENT IS PROVIDED. THE COST OF IT SHALL BE INCLUDED IN THE VARIOUS UNIT PRICES BID FOR THE PROJECT IMPROVEMENT.

DIVISION OF WATER

IF DURING THE EXCAVATION, THE POLYETHYLENE ENCASEMENT ON THE EXISTING WATER MAIN BECOMES DAMAGED, THE CONTRACTOR SHALL REPAIR THE POLYETHYLENE ENCASEMENT PER MANUFACTURER'S SPECIFICATIONS AND DOW STANDARD DRAWINGS L-1003 AND L-1004, AT THEIR OWN EXPENSE. ENSURE THAT THE ENTIRE EXPOSED AREA IS COVERED WITH NEW POLYETHYLENE ENCASEMENT AND SECURELY TAPED, PRIOR TO BACKFILLING.

EXPOSE WATER LINE AT CROSSING(S) TO VERIFY DEPTH AND LOCATION PRIOR TO AND DURING ANY DIRECTIONAL BORING (DIMENSIONED BORE PITS WILL BE IDENTIFIED AFTER THE FIELD SUBSURFACE UTILITY ENGINEERING (SUE) INVESTIGATION PRIOR TO STAGE 3).

THE CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL CUSTOMERS OWNED SERVICE LINES. THE CONTRACTOR SHALL FIELD VERIFY THE HORIZONTAL AND VERTICAL LOCATION OF ANY CITY OR CUSTOMER OWNED MAIN OR SERVICE LINE THAT MAY BE AFFECTED BY THE PROPOSED CONSTRUCTION ACTIVITIES. FIELD VERIFICATION SHALL TAKE PLACE PRIOR TO ANY ACTIVITY THAT MAY JEOPARDIZE THE INTEGRITY OF THE FACILITY AND AT A LOCATION NEAREST THE POINT OF POSSIBLE CONFLICT.

ANY REPAIR TO CITY OR CUSTOMER OWNED WATER LINES ARE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL CONTACT THE CITY OF COLUMBUS, DIVISION OF WATER AT 645-7788 PRIOR TO ANY REPAIRS ON CITY OWNED WATER FACILITIES. THE CONTRACTOR SHALL MAINTAIN A MINIMUM OF 3' HORIZONTAL AND 1' VERTICAL CLEARANCE FROM THE OUTSIDE DIAMETER OF ALL WATER LINES AND 8' FROM ANY "TEE" CONNECTION, BENDS AND ENDS OF THE WATER LINES, FROM OUTSIDE DIAMETER TO THE NEAREST EDGE OF THE FACILITY BEING PLACED.

IT SHALL BE UNLAWFUL FOR ANY PERSON TO PERFORM ANY WORK ON CITY OF COLUMBUS WATER LINE SYSTEMS WITHOUT FIRST SECURING LICENSE TO ENGAGE IN SUCH WORK, AS INDICATED IN COLUMBUS CITY CODE SECTION 1103.02 AND 1103.06. THIS WORK INCLUDES ANY ATTACHMENTS, ADDITIONS TO OR ALTERATIONS IN ANY CITY SERVICE PIPE OR APPURTENANCES (INCLUDING WATER SERVICE LINES AND TAPS). THIS REQUIREMENT MAY BE MET BY UTILIZATION OF A SUBCONTRACTOR WHO HOLDS A CITY OF COLUMBUS WATER CONTRACTOR LICENSE OR A COMBINES WATER/SEWER CONTRACTOR LICENSE TO PERFORM THIS WORK. UTILIZATION OF A SUBCONTRACTOR MUST MEET THE LICENSING REQUIREMENTS OF CITY OF COLUMBUS BUILDING CODE, IN PARTICULAR SECTION 4114.119 AND 4114.529.

ALL WATER LINE MATERIALS AND INSTALLATIONS SHALL BE IN ACCORDANCE WITH THE CURRENT RULES AND REGULATIONS OF THE CITY OF COLUMBUS, DIVISION OF WATER.

THE CITY OF COLUMBUS, CONSTRUCTION AND MATERIAL SPECIFICATIONS, 2012 EDITION AND ALL REVISIONS, INCLUDING ALL SUPPLEMENTS THERETO, SHALL GOVERN ALL CONSTRUCTION ITEMS THAT ARE PART OF THIS PLAN, UNLESS OTHERWISE NOTED.

FOR ANY EMERGENCIES INVOLVING THE WATER DISTRIBUTION SYSTEM, PLEASE CONTACT THE DIVISION OF WATER DISTRIBUTION MAINTENANCE OFFICE AT 614-645-7788.

ALL WATER LINE VALVE BOXES, SERVICE BOXES, TEST STATIONS, PITOMETER TAP STRUCTURES, METER PIT COVERS, AND OTHER SURFACE UTILITY STRUCTURES WITHIN THE DISTURBED AREA SHALL BE ADJUSTED TO GRADE. ANY OF THESE STRUCTURES LOCATED WITHIN PAVEMENT, DRIVEWAYS, OR OTHER TRAVELED AREAS, WHETHER EXISTING OR PROPOSED, SHALL BE EQUIPPED WITH A TRAFFIC RATED, HEAVY DUTY VALVE BOX AND/OR COVER IN ACCORDANCE WITH THE STANDARD DRAWINGS. EXISTING WATER SERVICE BOXES TO REMAIN THAT ARE ENCOUNTERED WITHIN THE PROJECT LIMITS SHALL BE CLEANED OUT, CENTERED OVER THE CURB STOP, AND ADJUSTED TO THE PROPOSED GRADE.

WHERE NEW CONDUIT IS PROPOSED TO CROSS AN EXISTING OR PROPOSED WATER MAIN OR WATER SERVICE, A MINIMUM OF 12-INCHES VERTICAL CLEARANCE SHALL BE MAINTAINED BETWEEN THE CONDUIT AND THE WATER MAIN OR SERVICE. A MINIMUM OF 3-FEET OF HORIZONTAL CLEARANCE (OUT TO OUT) IS REQUIRED AT LOCATIONS WHERE THE CONDUIT IS PARALLEL TO THE WATER MAIN AND AT LOCATIONS OF WATER LINE THRUST BLOCKS.

A MINIMUM OF 3 FEET OF HORIZONTAL CLEARANCE (OUT TO OUT) SHALL BE MAINTAINED BETWEEN ALL EXISTING WATER MAINS AND FOUNDATIONS FOR POLES, PULL BOXES, PUSH BUTTON PEDESTALS, AND ANY OTHER MISCELLANEOUS ELECTRICAL STRUCTURE.

COLUMBIA GAS DAMAGE PREVENTION CENTER

FOR INFORMATION CONCERNING COLUMBIA GAS LINES OR EQUIPMENT, OR IF DAMAGE OCCURS TO GAS LINES OR EQUIPMENT THE CONTRACTOR CAN CALL THE COLUMBIA GAS DAMAGE PREVENTION CENTER AT (614) 280-7372 OR TOLL FREE AT (866) 632-6243.

EXCAVATION OF ROADWAY AND RIGHT-OF-WAY AREAS

ANY CONTRACTOR PERFORMING EXCAVATION, INCLUDING BUT NOT LIMITED TO DISTURBING THE EARTH WITH POWERED OR NON-POWERED EQUIPMENT, DRILLING AND/OR BORING, SHALL CAUSE NOTICE TO BE GIVEN TO THE OHIO UTILITIES PROTECTION SERVICE (OUPS) BY CALLING 811 OR (800) 362-2764, OR ONLINE AT WWW.OUPS.ORG AT LEAST 48 HOURS BUT NOT MORE THAN 10 WORKING DAYS BEFORE EXCAVATING.

UPON NOTIFICATION BY OUPS, THE CITY OF COLUMBUS WILL MARK THE APPROXIMATE LOCATION OF CITY OWNED WATER, SEWER, AND ELECTRIC FACILITIES TO THE BEST OF ITS ABILITY. THE EXCAVATOR SHALL PROTECT AND PRESERVE THE MARKINGS UNTIL THOSE MARKINGS ARE NO LONGER NEEDED.

IF AN EXCAVATION WILL COVER A LARGE AREA AND/OR PROGRESS FROM ONE AREA TO THE NEXT OVER A PERIOD OF TIME, THE EXCAVATOR SHALL COORDINATE THE MARKING OF APPROXIMATE LOCATIONS OF CITY OWNED FACILITIES WITH THE ACTUAL EXCAVATION.

THE CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL CUSTOMER OWNED SERVICE LINES/LATERALS. THE CONTRACTOR SHALL FIELD VERIFY THE HORIZONTAL AND VERTICAL LOCATION OF ANY CITY OR CUSTOMER OWNED MAIN OR SERVICE LINE/LATERALS THAT MAY BE AFFECTED BY THE PROPOSED CONSTRUCTION ACTIVITIES. FIELD VERIFICATION SHALL TAKE PLACE PRIOR TO ANY ACTIVITY THAT MAY JEOPARDIZE THE INTEGRITY OF THE FACILITY AND AT A LOCATION NEAREST THE POINT OF POSSIBLE CONFLICT.

ANY DAMAGES TO CITY OR CUSTOMER OWNED FACILITIES SHOULD FIRST BE REPORTED TO THE UTILITY OWNER THEN IMMEDIATELY NOTIFY THE PROJECT ENGINEER.

ANY REPAIR TO CITY OR CUSTOMER OWNED WATER OR SEWER FACILITIES ARE THE RESPONSIBILITY OF THE CONTRACTOR. SUCH REPAIRS SHALL BE COMPLETED BY A CITY OF COLUMBUS LICENSED SEWER AND/OR WATER CONTRACTOR. REPAIRS TO SEWER FACILITIES SHALL REQUIRE A SEPARATE SEWER PERMIT.

THE CONTRACTOR SHALL MAINTAIN A MINIMUM OF 3' HORIZONTAL AND 1' VERTICAL CLEARANCE FROM THE OUTSIDE DIAMETER OF ALL SEWER AND WATER LINES AND 5' FROM SUPPORTING BLOCKS TO THE NEAREST EDGE OF THE FACILITY BEING PLACED.

THE CONTRACTOR SHALL MAINTAIN A MINIMUM CLEARANCE OF 10' HORIZONTAL AND 5' VERTICAL FROM THE OUTSIDE DIAMETER OF ALL BRICK SEWERS. BRICK SEWERS SHALL NOT BE EXPOSED AS THIS MAY CAUSE A COLLAPSE OF THE SEWER.

PROJECT INSPECTION, PLAN CHANGES & NOTIFICATION

IN ADDITION TO PROJECT INSPECTION PERSONNEL, THE ENGINEER SHALL BE PRESENT TO INSPECT THE INSTALLATION AT ALL NEW NODE CABINETS. ANY CHANGE TO THE PLANS SHALL BE APPROVED BY THE ENGINEER PRIOR TO ITS IMPLEMENTATION.

MATERIAL INFORMATION SUBMITTAL

THE CONTRACTOR SHALL SUBMIT ALL REQUIRED MATERIALS FOR APPROVAL TO THE CITY OF COLUMBUS, DIVISION OF DESIGN AND CONSTRUCTION, TO THE CONSTRUCTION ENGINEER, 1800 E. 17TH AVENUE, COLUMBUS, OHIO 43219. THE MATERIAL SUBMISSION SHALL CONTAIN ONE (1) COMPLETE SET OF CATALOG CUTS, DIAGRAMS, SHOP DRAWINGS, BROCHURES OR OTHER DESCRIPTIVE MATERIAL FOR THE SIGNAL ITEMS THAT THE CONTRACTOR INTENDS TO FURNISH. THE CONTRACTOR SHALL ALSO PROVIDE A DETAILED LIST OF ALL VARIANCES FROM CMSC AND FROM THE SPECIFICATIONS CONTAINED HEREIN FOR EACH NONSPECIFIED ITEM THAT DOES NOT COMPLY 100% WITH THESE SPECIFICATIONS. UNLESS OTHERWISE STATED BY THE CONTRACTOR THE SUPPLIED ITEMS WILL BE CONSIDERED AS BEING IN STRICT ACCORDANCE WITH ALL SPECIFICATIONS, INCLUDING ALL SUPPLEMENTAL SPECIFICATIONS.

THE DOCUMENTS AND MATERIALS SHALL BE SUBMITTED AS A COMPLETE BID ITEM PACKAGE VIA THE CITY OF COLUMBUS'S PROJECT MANAGEMENT SOFTWARE (PMIS). THE CONTRACTOR SHALL REQUEST A PASSWORD FROM THE DIVISION OF DESIGN AND CONSTRUCTION FOR THIS PROJECT AND USE THE FOLLOWING LINK TO ACCESS THE SYSTEM:

HTTPS://ARCADIS.ORIONPMIS.COM/COLUMBUSPMIS/DBIASV4/INDEX.CFM?FUSEACTION=SECURITY.LOGINFORM&RETURNURL=&UNITID=116&PROJECTID=32&FACILITYID=39

VALVE BOXES & OTHER SURFACE STRUCTURES

ALL VALVE BOXES; METER PITS & OTHER UTILITY STRUCTURES SHALL BE ADJUSTED TO GRADE WHERE NEW WALK, PAVERS, CURBS, AND ETCETERA ARE CONSTRUCTED.

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ENVIRONMENTAL COMMITMENTS MADE AND RESOURCES TO BE AVOIDED.

PULLBOXES WILL NOT BE INSTALLED WITHIN THE FLOODWAY. WHEN NECESSARY, PULLBOXES WILL BE INSTALLED WITHIN THE FLOODWAY FRINGE PORTION OF THE 100-YEAR FLOODPLAIN AND ANY CONDUITS ON BRIDGE STRUCTURES WILL CLEAR THE BASE FLOOD ELEVATION BY AT LEAST 18 INCHES.

EXCAVATION ADJACENT TO IDENTIFIED ESA SITES WILL BE LIMITED TO A DEPTH OF 36 INCHES BELOW FINISHED GRADE. IF DEEP EXCAVATION BECOMES NECESSARY, THE CITY OF COLUMBUS WILL COORDINATE WITH ODOT-OES TO DETERMINE IF ADDITIONAL ENVIRONMENTAL SITE ASSESSMENT IS WARRANTED.

WATERSHED PROTECTION

THE WORK ASSOCIATED WITH THIS PROJECT IS BEING PERFORMED WITHIN THE DIRECT DRAINAGE AREA OF A MAJOR DRINKING WATER SUPPLY FOR THE CITY OF COLUMBUS. IT IS ESSENTIAL THAT ALL ACTIVITIES ASSOCIATED WITH THIS WORK BE PERFORMED IN A MANNER CONSISTENT WITH BEST WATERSHED MANAGEMENT PRACTICES INCLUDING, BUT NOT LIMITED TO:

AREAS OF DISTURBED GROUND SHALL HAVE APPROPRIATE EROSION AND SEDIMENT CONTROLS. IF HAZARDOUS/TOXIC MATERIALS INCLUDING BUT NOT LIMITED TO FUELS, OILS, BITUMEN'S PAINTS, SEALANTS, OR OTHER CHEMICALS, ARE STORED ON SITE, THEY SHALL BE STORED IN A DOUBLE-CONTAINMENT MANNER. ALL EQUIPMENT REPAIRS, MAINTENANCE, AND MECHANICAL WORK THAT COULD RESULT IN THE RELEASE OF HAZARDOUS/TOXIC MATERIALS SHALL BE PERFORMED IN AN APPROPRIATELY CONTAINED AREA, PREFERABLY OFF SITE OR AN APPROPRIATE OFF-SITE FACILITY.

IN THE EVENT THAT ANY HAZARDOUS/TOXIC MATERIALS INCLUDING, BUT NOT LIMITED TO FUELS, OILS, BITUMEN'S PAINTS, SEALANTS, OR OTHER CHEMICALS ARE SPILLED INTO THE SCIOTO RIVER OR ITS TRIBUTARIES, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE CITY OF COLUMBUS DUBLIN ROAD WATER TREATMENT PLANT AT (614) 645-8297. THE CONTRACTOR SHOULD BE PREPARED TO PROVIDE DETAILED INFORMATION RELATIVE TO THE TYPE AND QUANTITY OF MATERIAL THAT HAS BEEN SPILLED AS WELL AS THE EXACT LOCATION AND THE EXACT TIME AT WHICH THE SPILL OCCURRED.

THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR INFORMING ALL SUBCONTRACTORS AND OTHER AGENTS OF THESE RESPONSIBILITIES, PRECAUTIONS, AND PROHIBITIONS.

STREAM/WETLAND/WATER COURSE AVOIDANCE

NO FILLING, GRADING, OPERATION OR PLACEMENT OF EQUIPMENT OF OTHER WORK SHALL BE PERMITTED BELOW THE ORDINARY HIGH WATER MARK OF ANY STREAM OR OTHER WATER COURSES OR WITHIN ANY WETLANDS UNLESS THE REQUIRED STATE AND/OR FEDERAL PERMITS HAVE BEEN OBTAINED IN ACCORDANCE WITH ALL APPLICABLE STATE AND/OR FEDERAL LAWS AND REGULATIONS. UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR STORE EQUIPMENT AND/OR MATERIALS IN ANY WETLANDS, STREAMS AND OTHER WATER COURSES OR WITHIN 100-YEAR FLOODPLAIN LIMITS OF ANY WATER COURSES.

WORK OCCURRING AT RAILROAD CROSSINGS

THE CONTRACTOR MUST SECURE ALL NECESSARY PERMITS AND/OR FORMS REQUIRED TO PERFORM WORK AT RAILROAD CROSSINGS AS SHOWN IN THE PLANS. ANY AND ALL COSTS INCURRED FROM THE RAILROAD INCLUDING, BUT NOT LIMITED TO, RIGHT-OF-WAY ENTRY FEES, APPLICATIONS, AND ON SITE RAILROAD INSPECTION FEES ARE THE RESPONSIBILITY OF THE CONTRACTOR AND WILL BE CONSIDERED INCIDENTAL TO THE COST OF ITEM 632: FIBER OPTIC CABLE, MISC.: 144 STRAND CABLE. NOTIFY THE ENGINEER IN WRITING TWO WEEKS PRIOR TO CONTACTING RAILROAD COMPANY, FOR COORDINATION.

CITY OF COLUMBUS DEPARTMENT OF TECHNOLOGY (COC-DOT)

COC-DOT HAS OVERHEAD AND/OR UNDERGROUND FIBER CABLES EXISTING AT THIS WORK SITE. ANY REQUIRED RELOCATION, SUPPORT, PROTECTION, OR ANY OTHER ACTIVITY CONCERNED WITH COC-DOT'S CABLE, CONDUIT FACILITIES, AND MATERIALS IN THE CONSTRUCTION AREA IS TO BE PERFORMED BY THE CONTRACTOR UNDER THE DIRECTION OF COC-DOT PERSONNEL AND AT THE EXPENSE OF THE PROJECT. THE CONTRACTOR SHALL USE MATERIALS AND MAKE REPAIRS TO A COC-DOT'S SYSTEM BY FOLLOWING THE COC-DOT MATERIAL AND INSTALLATION SPECIFICATIONS IN I-NET'S GENERAL SPECIFICATIONS DOCUMENT, HEREAFTER REFERRED TO IN IGSD. THE CONTRACTOR SHALL BE CITY OF COLUMBUS APPROVED FOR FIBER SPLICING PLUS MEET IGSD REQUIREMENTS. IF ANY CABLE FACILITY BELONGING TO THE COC-DOT IS DAMAGED IN ANY MANNER BY THE CONTRACTOR, HIS AGENTS, SERVANTS OR EMPLOYEES, THAT WOULD REQUIRE EMERGENCY REPAIRS, THE COC-DOT MAINTENANCE CONTRACTOR SHALL MAKE ALL NECESSARY REPAIRS, AND THE EXPENSE OF SUCH REPAIRS AND OTHER RELATED COSTS SHALL BE PAID BY THE CONTRACTOR TO THE DIVISION OF TECHNOLOGY CITY OF COLUMBUS. CONTACT 614-645-7756 COC-DOT FIBER PHYSICAL PERSONNEL FOR QUESTIONS.

EROSION AND SEDIMENT CONTROL

LAND DISTURBANCE AREAS LESS THAN ONE ACRE AND NOT PART OF A LARGER COMMON PLAN DEVELOPMENT ARE NOT REQUIRED TO SUBMIT TO THE CITY OF COLUMBUS A FULL SCALE EROSION AND SEDIMENT CONTROL PLAN FOR APPROVAL. HOWEVER, THE PROPOSED LAND DISTURBING ACTIVITIES MUST COMPLY WITH ALL OF THE PROVISIONS OF THE DIVISION OF SEWERAGE AND DRAINAGE EROSION AND SEDIMENT CONTROL REGULATION. ALL LAND DISTURBING ACTIVITIES SHALL BE SUBJECT TO INSPECTION AND SITE INVESTIGATION BY THE CITY OF COLUMBUS TO DETERMINE COMPLIANCE WITH CITY STANDARDS AND REGULATIONS. FAILURE TO COMPLY WITH THESE REGULATIONS MAY SUBJECT THE SITE TO ENFORCEMENT ACTION BY THE CITY. QUESTIONS REGARDING EROSION AND SEDIMENT CONTROL MAY BE REFERRED TO THE STORMWATER MANAGEMENT OFFICE AT (614) 645-6311

ON-SITE CONTACT: RYAN BOLLO
PHONE: (614) 645-3946
FAX: (614) 645-7805
E-MAIL: RJBOLLO@COLUMBUS.GOV
SITE IS TRIBUTARY TO: SCIOTO RIVER, OLENTANGY RIVER, ALUM CREEK, BIG WALNUT CREEK

STREET CLEANING (ON AN AS-NEEDED BASIS) IS REQUIRED THROUGH THE DURATION OF THIS CONSTRUCTION PROJECT. THIS INCLUDES SWEEPING, POWER CLEANING AND (IF NECESSARY) MANUAL REMOVAL OF DIRT OR MUD IN THE STREET GUTTERS.

DIRECT DISCHARGE OF SEDIMENT LADEN WATER TO THE CITY'S SEWER SYSTEM OR A RECEIVING STREAM IS A VIOLATION OF OHIO EPA AND CITY OF COLUMBUS REGULATIONS. THE CONTRACTOR WILL BE HELD LIABLE FOR THE VIOLATION AND SUBSEQUENT FINES.

THE USE OF STRAW WATTLES HAS PROVEN TO BE A VERSATILE AND EFFECTIVE ESC BMP, ESPECIALLY IN RESIDENTIAL SETTINGS. STRAW WATTLES MAY BE SUBSTITUTED FOR SILT FENCE. ADDITIONALLY, THE USE OF COMPOST FILTER SOCKS AND COMPOST BLANKETS ARE GAINING WIDER ACCEPTANCE NATIONWIDE. THEY ARE NOW APPROVED FOR USE ON ALL COLUMBUS SWP3 PLANS AND CONSTRUCTION SITES.

WATER QUALITY PROTECTION

NO TOXIC OR HAZARDOUS MATERIALS SUCH AS SEALANTS, SOLVENTS, CLEANING AGENTS, WASTE-WATER, FUELS OR DEBRIS OF ANY KIND SHALL BE DISCHARGED TO ANY STREAMS, DRAINAGE COURSES, OR BODIES OF WATER. NO DEBRIS SHALL BE PLACED WITHIN THE 100-YEAR FLOODPLAIN BOUNDARY OF ANY WATERCOURSE.

THE CONTRACTOR SHALL TAKE GREAT CARE TO MINIMIZE THE POTENTIAL TO CONTAMINATE THE PUBLIC DRINKING WATER SUPPLY. ALL PROJECT RELATED REFUELING AND MAINTENANCE ACTIVITIES SHALL BE PERFORMED IN AN ENVIRONMENTALLY RESPONSIBLE MANNER.

THE CONTRACTOR SHALL TAKE THE APPROPRIATE ACTIONS IN THE EVENT OF A RELEASE AND WILL BE HELD RESPONSIBLE FOR THE CLEAN UP AND REMEDIATION OF ANY AND ALL SPILLS.

UNDERGROUND FIBER OPTIC CABLE INSTALLATION

THE QUANTITY FOR INSTALLATION OF UNDERGROUND FIBER OPTIC CABLE (FOC) IS CARRIED TO THE GENERAL SUMMARY AND WAS CALCULATED BY COMBINING UNDERGROUND INSTALLATION ELEMENT QUANTITIES AND WAS DERIVED AS FOLLOWS:

TOTAL LINEAR UNDERGROUND INSTALLATION	=	59,867 FT	(1)
TOTAL UNDERGROUND SLACK	=	5,250 FT	(2)
TOTAL UNDERGROUND SPLICE SLACK	=	2,700 FT	(3)
FIBER OPTIC CABLE, MISC.: UNDERGROUND FIBER OPTIC INSTALLATION	=	SUM(1-3)	
	=	67,817 FT	

FRANKLIN COUNTY

THE CONTRACTOR SHALL SECURE A WRITTEN PERMIT FROM THE FRANKLIN COUNTY ENGINEER'S OFFICE, 970 DUBLIN RD, A MINIMUM OF TWO WORKING DAYS PRIOR TO BEGINNING WORK WITHIN FRANKLIN COUNTY R/W. THE CONTRACTOR MAY BE REQUIRED TO POST A BOND WITH THE FRANKLIN COUNTY ENGINEER PRIOR TO ISSUANCE OF THE PERMIT TO INSURE PROPER RESTORATION OF THE PAVEMENT AND R/W. THE CONTRACTOR SHALL PROVIDE THE FRANKLIN COUNTY ENGINEER'S OFFICE A 24-HOUR TELEPHONE NUMBER TO BE USED IN CASE OF AN EMERGENCY.

CONTACT STEVE BUSKIRK AT 614-525-3063

CITY OF GAHANNA FIBER

FOR WORK LOCATIONS INVOLVING THE CONNECTION TO CITY OF GAHANNA FACILITIES THE CONTRACTOR SHALL COORDINATE WORK WITH GAHANNA AT LEAST TWO WEEKS PRIOR TO START OF WORK. THE CONTRACTOR SHALL REQUEST INSTALLATION INSTRUCTION INCLUDING, BUT NOT LIMITED TO: APPROPRIATE GAHANNA PULL BOX AND/OR AERIAL SPLICE ENCLOSURE TO CONNECT TO, CONSTRUCTION METHOD AND DEPTH OF ENTRY POINT OF PULL BOX, AND SPLICE ENCLOSURE AND SLACK STORAGE MOUNTING WITHIN GAHANNA PULL BOX OR AERIAL SPAN.

THE CONTRACTOR WILL BE REQUIRED TO EXTEND THE PROPOSED CTSS FIBER LATERAL AND LOCATING WIRE TO THE PROPOSED SPLICE POINT AND PROVIDE 75' OF CABLE SLACK TO ALLOW FOR SPLICING INTO THE CITY'S FIBER OPTIC NETWORK. AT NO TIME SHOULD THE CITY'S FIBER BE DISTURBED OR ANY SPLICE ENCLOSURES BE ACCESSED DURING THIS PROCESS. ONCE ALL LATERAL CONSTRUCTION IS COMPLETE, THE CONTRACTOR MUST NOTIFY THE CITY DEPARTMENT OF PUBLIC SERVICE AND THE CITY WILL SCHEDULE THE SPLICE(S) TO BE PERFORMED. THE APPLICANT WILL BE RESPONSIBLE FOR ANY COSTS ASSOCIATED WITH THE CONSTRUCTION OF THE PRIVATE LATERAL AND ALL SPLICING WORK NEEDED TO CONNECT TO THE CITY'S FIBER OPTIC NETWORK.

ADDITIONAL PERMITS MAY BE REQUIRED WHEN WORKING WITHIN CITY OF GAHANNA RIGHT-OF-WAY. CONTACT GAHANNA DEPARTMENT OF PUBLIC SERVICE TO REQUEST A RIGHT-OF-WAY APPLICATION. THE WORK TO EXTEND THE CTSS FIBER LATERAL TO THE PROPOSED SPLICE LOCATION WILL REQUIRE INSPECTION. PLEASE CALL THE PUBLIC SERVICE DEPARTMENT 24 HOURS IN ADVANCE OF WORK TO SCHEDULE AN INSPECTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY COSTS INCURRED AS PART OF THE INSPECTION PROCESS.

CONTACT INFORMATION:

GAHANNA DEPARTMENT OF PUBLIC SERVICE
200 SOUTH HAMILTON RD.
GAHANNA, OHIO 43230
(614) 342-4005.

POST-CONSTRUCTION STORM WATER POLLUTION PREVENTION PLAN

IN ACCORDANCE WITH THE OHIO ENVIRONMENTAL PROTECTION AGENCY'S GENERAL PERMIT AUTHORIZATION FOR STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY UNDER THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (PERMIT NO. OHC000004), THIS PROJECT IS CONSIDERED A LINEAR CONSTRUCTION PROJECT, WHICH DOES NOT RESULT IN THE INSTALLATION OF ADDITIONAL IMPERVIOUS SURFACE, AND THEREFORE IS NOT REQUIRED TO COMPLY WITH THE CONDITIONS OF THE POST-CONSTRUCTION STORM WATER MANAGEMENT REQUIREMENTS OF THE PERMIT. HOWEVER, LINEAR CONSTRUCTION PROJECTS SHALL BE DESIGNED TO MINIMIZE THE NUMBER OF STREAM CROSSINGS AND THE WIDTH OF DISTURBANCE AND ACHIEVE FINAL STABILIZATION OF THE DISTURBED AREA.
FINAL STABILIZATION IS DEFINED AS ALL SOIL DISTURBING ACTIVITIES AT THE SITE ARE COMPLETE AND A UNIFORM PERENNIAL VEGETATIVE COVER (E.G., EVENLY DISTRIBUTED, WITHOUT LARGE BARE AREAS) WITH A DENSITY OF AT LEAST 70 PERCENT COVER FOR THE AREA HAS BEEN ESTABLISHED ON ALL UNPAVED AREAS AND AREAS NOT COVERED BY PERMANENT STRUCTURES OR EQUIVALENT STABILIZATION MEASURES (SUCH AS THE USE OF MULCHES, RIP-RAP, GABIONS OR GEOTEXTILES) HAVE BEEN EMPLOYED. IN ADDITION, ALL TEMPORARY EROSION AND SEDIMENT CONTROL PRACTICES ARE REMOVED AND DISPOSED OF AND ALL TRAPPED SEDIMENT IS PERMANENTLY STABILIZED TO PREVENT FURTHER EROSION.

SUMMARY OF POST-CONSTRUCTION STORMWATER CONTROL FACILITY

CONTROL/OUTLET STRUCTURE NO. (AS REFERENCED ON PLANS)	CONTROL FUNCTIONS	DRAINAGE AREA TO CONTROL FACILITY (ACRES)	FACILITY TYPES
N/A	N/A	N/A	N/A

IN ACCORDANCE WITH THE CITY OF COLUMBUS STORMWATER DRAINAGE MANUAL, DE MINIMIS EXCEPTION, THIS PROJECT IS EXEMPT FROM POST CONSTRUCTION STORM WATER DETENTION AND WATER QUALITY FACILITIES BECAUSE THERE IS LESS THAN 10,000 SQUARE FEET OF DISTURBANCE AND LESS THAN 2,000 SQUARE FEET OF ADDITIONAL IMPERVIOUS AREA.

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CONTRACTOR ACCESS TO EXISTING CONTROL CABINET

WHEN THE CONTRACTOR REQUIRES ENTRANCE TO AN EXISTING CONTROL CABINET, CONTRACTOR MUST PROVIDE THE ENGINEER WITH A MINIMUM NOTICE OF THREE (3) BUSINESS DAYS. A REPRESENTATIVE FROM THE DIVISION OF PLANNING AND OPERATIONS SHALL BE PRESENT ANYTIME THE CONTRACTOR REQUIRES ENTRY INTO AN EXISTING CITY OF COLUMBUS CONTROL CABINET TO PERFORM ANY WORK. THE CONTRACTOR SHALL CONTACT (614) 645-7933 TO MAKE ARRANGEMENTS. THE REPRESENTATIVE SHALL ACT IN A SUPERVISORY AND/OR INFORMATIONAL CAPACITY ONLY UNLESS OTHERWISE STATED IN THESE PLANS. EXISTING CABINET WIRING THAT WAS PREVIOUSLY DISCONNECTED BY THIS DIVISION SHALL BE CONNECTED BY THIS DIVISION IF CONNECTION IS REQUIRED FOR PROPER OPERATION OF THE TRAFFIC SIGNAL. ALL CONTRACTOR INSTALLED CABLE SHALL BE CONNECTED BY THE CONTRACTOR BUT OVERSEEN BY THE DIVISION'S REPRESENTATIVE. THERE IS NO CHARGE FOR THIS REPRESENTATIVE BETWEEN THE HOURS OF 8AM AND 3PM, MONDAY THROUGH FRIDAY. PRIOR TO OR AFTER THESE HOURS AND ON SATURDAYS THE HOURLY CHARGE IS $30 WITH A MINIMUM CHARGE OF $120 ON SATURDAY. SUNDAY HOURLY CHARGE IS $40 WITH A MINIMUM CHARGE OF $160.

DRAINAGE

D100 – STORMWATER FACILITIES: BEFORE ANY WORK IS STARTED ON THE PROJECT AND AGAIN BEFORE FINAL ACCEPTANCE BY THE OWNER, THE ENGINEER AND THE CONTRACTOR SHALL MAKE AN INSPECTION OF ALL EXISTING SEWERS WHICH ARE TO REMAIN IN SERVICE AND WHICH MAY BE AFFECTED BY THE WORK. THE CONDITION OF THE EXISTING CONDUITS AND THEIR APPURTENANCES SHALL BE DETERMINED FROM FIELD OBSERVATIONS. THE ENGINEER SHALL KEEP RECORDS OF THE INSPECTION IN WRITING.

ALL NEW CONDUITS, INLETS, CATCH BASINS, AND MANHOLES CONSTRUCTED OR RECONSTRUCTED AS A PART OF THE PROJECT SHALL BE FREE OF ALL FOREIGN MATTER AND IN A CLEAN CONDITION BEFORE THE PROJECT WILL BE ACCEPTED BY THE OWNER. ALL EXISTING MANHOLES, CATCH BASINS, DRAINS, SEWERS, AND APPURTENANCES INSPECTED INITIALLY BY THE ABOVE MENTIONED PARTIES SHALL BE MAINTAINED AND LEFT IN A CONDITION REASONABLE COMPARABLE TO THAT DETERMINED BY THE ORIGINAL INSPECTION. THE CONTRACTOR SHALL CORRECT ANY CHANGE IN THE CONDITION RESULTING FROM THE CONTRACTOR'S OPERATIONS TO THE SATISFACTION OF THE ENGINEER. THE ABOVE IS NOT APPLICABLE FOR STRUCTURES TO BE ABANDONED. THE CONTRACTOR SHALL REMOVE DEBRIS, SILT, ETC. FROM THE EXISTING MANHOLES AND CATCH BASINS THAT HAVE BEEN AFFECTED BY CONSTRUCTION OPERATIONS. THE CONTRACTOR SHALL MAINTAIN SERVICE IN EXISTING SEWERS DURING CONSTRUCTION.

D101 – EXISTING DRAINAGE SYSTEMS: EXISTING DRAINAGE SYSTEMS (FIELD TILES, ROOF IN OUTLETS, SUMP PUMPS, ETC.) ENCOUNTERED DURING CONSTRUCTION OF THE NEW STORM WERE OR REMOVAL OF EXISTING STORM SEWERS SHALL BE EXTENDED AS NECESSARY AND BLIND TAPPED TO THE NEW STORM SEWER PER DIVISION OF SEWERAGE AND DRAINAGE STANDARD DRAWING AA-S159 OR CONNECTED TO THE CATCH BASIN AS DIRECTED BY THE ENGINEER. ALL COSTS ASSOCIATED WITH THIS WORK SHALL BE INCLUDED IN THE UNIT PRICE BID FOR CMSC ITEM 901.

IF THE CONTRACTOR ENCOUNTERS A PIPE OR CONNECTION TO THE STORM SEWER THAT IN THE ESTIMATE OF THE ENGINEER MAY BE AN ILLICIT CONNECTION FROM AN ON-SITE SEWAGE DISPOSAL SYSTEM, COLUMBUS PUBLIC HEALTH SHALL BE CONTACTED AT 645-6448 TO DETERMINE WHETHER THE PIPE MAY BE RECONNECTED TO THE CITY'S STORM SEWER SYSTEM.

D102 – STORM STRUCTURE ADJUSTMENT: THE CONTRACTOR SHALL FIELD VERIFY THE TOP OF CASTING ELEVATION OF ALL NEW STORMWATER STRUCTURES. IF PRECAST STRUCTURES ARE UTILIZED, THE TOP 6 INCHES MINIMUM SHALL BE FIELD PLACED EITHER WITH GRADE RINGS OR BRICK AND MORTAR TO ALLOW FOR FIELD ADJUSTMENT. THE COST FOR THIS WORK SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE APPLICABLE CMSC ITEM 604.

IF THE ENGINEER DETERMINES THAT AN INLET IS TOO LOW/HIGH AFTER IT HAS BEEN PLACED AND ROUGH GRADING PERFORMED, THE CONTRACTOR SHALL ADJUST THE INLET AS DIRECTED BY THE ENGINEER AND REGRADE THE AREA ACCORDINGLY. FOR ADJUSTMENTS OF+/- 6 INCHES, THE COST TO ADJUST THE INLET SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE APPLICABLE CMSC ITEM 604. FOR ADJUSTMENTS GREATER THAN +/- 6 INCHES, THE COST TO ADJUST THE INLET SHALL BE PAID FOR IN THE UNIT PRICE BID FOR CMSC ITEM SPECIAL - INLET ADJUSTED, AS DIRECTED BY ENGINEER, AND SHALL CONSTITUTE FULL PAYMENT FOR ADJUSTING THE INLET INCLUDING GRADE RINGS, CONCRETE SAWING, MORTAR, EXCAVATION, BACKFILL, REGRADING, ETC.

TRENCH IN ROCK

TRENCH IN ROCK WILL BE PERFORMED AT THE DIRECTION OF THE ENGINEER. FOR ANY INSTANCE WHERE THIS WORK IS PERFORMED, THE COST FOR TRENCHING IN ROCK SHALL BE CONSIDERED INCIDENTAL TO THE BID ITEM 625 TRENCH, 36" DEEP, AS PER PLAN.

IT IS ANTICIPATED THAT APPROXIMATELY 2%, OR 1500 FT OF TRENCHING WILL BE LOCATED IN ROCK.

PAVEMENT CUTTING, SAWING AND EXCAVATION OPERATIONS

ALL PUBLIC AGENCIES AND PRIVATE CONTRACTORS PERFORMING PAVEMENT-CUTTING OPERATIONS ON CITY OF COLUMBUS STREETS AND ROADWAYS SHALL PROTECT THE ENVIRONMENT FROM DISCHARGES CREATED BY THEIR PAVEMENT CUTTING OPERATIONS. NOTE THAT COLUMBUS CITY CODE 1145 PROHIBITS NON-STORMWATER DISCHARGE INTO THE CITY OF COLUMBUS SEWER SYSTEM, CURB INLETS AND ANY PART OF ITS MS4 (MUNICIPAL SEPARATE STORM SEWER SYSTEM).

THE REQUIREMENT INCLUDES BUT IS NOT LIMITED TO WET OR DRY SAW-CUTTING, JACK HAMMERING, EXCAVATION EQUIPMENT USE, ETC. THE PUBLIC AGENCY AND/OR PRIVATE CONTRACTOR WORK CREWS SHALL RECOVER AND DISPOSE OF DETRITUS, POLLUTED WATERS, OR OTHER SUCH DISCHARGES RESULTING FROM THEIR PAVEMENT CUTTING OPERATIONS AND PROTECT ALL STORM SEWER INLETS FROM RECEIVING ANY DISCHARGES FROM THE CONSTRUCTION OPERATIONS . THE AGENCY OR CONTRACTOR RESPONSIBLE FOR EACH PAVEMENT CUTTING ACTIVITY SHALL BE SOLELY LIABLE FOR NOTICE OF VIOLATIONS (NOV/S) AND FINES ISSUED BY CITY OF COLUMBUS AND/OR STATE OF OHIO AUTHORITIES.

EQUIPMENT, MATERIALS AND METHODS SHALL BE PROVIDED BY THE RESPONSIBLE PUBLIC AGENCY AND/OR PRIVATE CONTRACTOR TO WORK CREWS PERFORMING THE PAVEMENT CUTTING ACTIVITY AND MADE AVAILABLE TO WORK CREWS FOR USE IN CLEANING UP DISCHARGES RESULTING FROM SUCH CUTTING ACTIVITIES AND PREVENTING RUNOFF. ALL WORK CREWS SHALL BE TRAINED TO EXERCISE AND EMPLOY EQUIPMENT, MATERIALS, AND ENVIRONMENTAL PROTECTIVE MEASURES TO PREVENT POLLUTED DISCHARGES FROM ENTERING THE CITY OF COLUMBUS STORM SEWER SYSTEM AND WATERS OF THE STATE OF OHIO.

THE PUBLIC AGENCY AND/OR PRIVATE CONTRACTOR IS SOLELY RESPONSIBLE FOR ENSURING THAT THE INLET PROTECTION IS ADEQUATE. THE MOST STRINGENT PROJECT PLANS, NOTES AND/OR DRAWINGS INCLUDING STORMWATER POLLUTION PREVENTION PLAN (SWP3)OR SPILL PREVENTION/REMEDIATION PLAN SHALL APPLY TO ALL PAVEMENT CUTTING, SAWING OR EXCAVATION OPERATIONS.

NOTE TO SPECIFICATION WRITERS: IF SWP3 OR SPILL PREVENTION/REMEDIATION PLANS ARE INCLUDED IN CONTRACT DOCUMENTS, THEY SHOULD BE CITED IN THE LAST PARAGRAPH ABOVE BY VOLUME, PAGE OR SHEET NUMBERS; SO DIRECTING THE READER TO SUCH PLAN.

FULL WIDTH PAVEMENT REPAIR

AT LOCATIONS WHERE TRENCHING IN PAVED AREA FOR DISTANCES GREATER THAN 100FT THE CONTRACTOR SHALL REPLACE THE SURFACE COURSE FOR THE FULL WIDTH OF THE LANE IN WHICH THE TRENCH HAS BEEN CONSTRUCTED.

LOCATIONS TO BE DIRECTED BY ENGINEER, CONTINGENCY ITEMS IN PLACE FOR ANY NECESSARY SURFACE COURSE REPLACEMENT.

SEPARATE BID ITEMS HAVE BEEN PROVIDED IN THE DETAILS OF THE PLANS AND CARRIED TO THE GENERAL SUMMARY FOR PAVING ITEMS.
REFER TO COLUMBUS STANDARD DRAWING 1441 FOR DETAILS.

		LOCATION		LENGTH	WIDTH	ITEM 254, PAVEMENT PLANING, 1-1/2" DEEP	ITEM 407, TACK COAT	ITEM 448, 1-1/2" ASPHALT CONCRETE SURFACE COURSE, MEDIUM TRAFFIC, PG70-22M,
	SHEET NO.	FROM	TO	FT	FT	SY	GAL	CY
HAYDEN RUN RD	165	86+50	90+75	450	12	600	48	23

DIVISION OF SEWERAGE AND DRAINAGE UTILITIES

CITY OF COLUMBUS LOCATORS WILL ONLY LOCATE AND MARK MAIN LINE SEWERS. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL SERVICE LATERALS AND FIELD VERIFYING THE LOCATION OF MAIN SEWER LINES. ANY DAMAGE AND/OR REPAIRS TO THE MAIN SEWER LINES OR SERVICE LATERALS ARE THE RESPONSIBILITY OF THE CONTRACTOR. REPAIRS MUST BE COMPLETED BY A LICENSED SEWER CONTRACTOR UNDER A SEPARATE SEWER PERMIT.

THE CONTRACTOR SHALL MAINTAIN A MINIMUM CLEARANCE OF 3' HORIZONTAL AND 1' VERTICAL FROM THE OUTSIDE DIAMETER OF ALL SEWER AND WATER LINES.

JACKING OR DRILLING IN ROCK

JACKING OR DRILLING IN ROCK WILL BE PERFORMED AT THE DIRECTION OF THE ENGINEER. FOR ANY INSTANCE WHERE JACKING OR DRILLING IN ROCK WORK IS PERFORMED, THE COST FOR JACKING OR DRILLING IN ROCK SHALL BE CONSIDERED INCIDENTAL TO THE BID ITEM 625 CONDUIT, JACKED OR DRILLED, 3", AS PER PLAN AND ITEM 625 CONDUIT, JACKED OR DRILLED, 4", AS PER PLAN.

IT IS ANTICIPATED THAT APPROXIMATELY 2%, OR 500 FT OF JACKING OR DRILLING WILL BE LOCATED IN ROCK.

CONTINGENT QUANTITIES

THE PAY ITEM QUANTITIES IN THE FOLLOWING TABLE ARE CARRIED TO THE GENERAL SUMMARY AND ARE TO BE PERFORMED ONLY AT THE DIRECTION OF THE ENGINEER.

ITEM	QUANTITY	UNIT	DESCRIPTION
202	1,000	FT	CONDUIT, MISC.: CONDUIT RESTORATION
202	100	FT	CURB AND GUTTER REMOVED
202	100	FT	CURB REMOVED
202	4,100	FT	EXISTING CONDUIT CLEANED, AS PER PLAN
202	5	EACH	REMOVAL, MISC.: REMOVE EXISTING WOOD POLE
202	600	FT	CONCRETE BARRIER REMOVED
202	400	SF	WALK REMOVED
207	1	LS	ESC/SWP3, AS PER PLAN
254	100	SY	PAVEMENT PLANING, 1-1/2" DEEP
407	5	GAL	TACK COAT
448	100	CY	1-1/2" ASPHALT CONCRETE SURFACE COURSE, MEDIUM TRAFFIC, PG70-22M
605	20	EACH	4" PIPE UNDERDRAIN
608	200	SF	4" CONCRETE WALK
608	200	SF	8" CONCRETE WALK
608	4	EACH	CURB RAMP
608	8	EACH	DETECTABLE WARNING, TYPE E
609	50	LF	COMBINATION CURB AND GUTTER, TYPE SPECIAL 8"
609	50	LF	COMBINATION CURB AND GUTTER, TYPE STANDARD
609	50	FT	CURB, STRAIGHT 18"
614	100	HR	LAW ENFORCEMENT OFFICER WITH PATROL CAR
614	40	HR	LAW ENFORCEMENT OFFICER WITHOUT PATROL CAR
622	600	FT	BARRIER, MISC.: MEDIAN BARRIER WALL
625	1	EACH	36" MEDIAN JUNCTION BOX
625	2	EACH	BRACKET ARM, 30', AS PER PLAN
625	250	FT	CONDUIT, 2", AS PER PLAN
625	3,050	FT	CONDUIT, 3", AS PER PLAN
625	500	FT	CONDUIT, 4", AS PER PLAN
625	1,000	FT	CONDUIT, CONCRETE ENCASED, 2-3", 725.05, AS PER PLAN
625	100	FT	CONDUIT, CONCRETE ENCASED, 4-3", 725.05, AS PER PLAN
625	2,000	FT	CONDUIT, JACKED OR DRILLED, 3", AS PER PLAN
625	200	FT	CONDUIT, JACKED OR DRILLED, 4", AS PER PLAN
625	600	FT	CONDUIT, MISC.: CONDUIT REPAIR
625	20	EACH	GROUND ROD
625	2	EACH	PULL BOX, 18", 725.06, AS PER PLAN
625	8	EACH	PULL BOX, 18", 725.08, AS PER PLAN
625	2	EACH	PULL BOX, 24", 725.08
625	30	EACH	PULL BOX, CONCRETE 32", AS PER PLAN
625	2	EACH	PULL BOX, CONCRETE 48", AS PER PLAN
625	20	EACH	PULL BOX, MISC.: PULL BOX REPAIRED
625	5	EACH	PULL BOX, REMOVED, AS PER PLAN
625	100	FT	TRENCH IN PAVED AREA, AS PER PLAN
625	2,500	FT	TRENCH, 36" DEEP, AS PER PLAN
632	15	EACH	CONDUIT RISER, 2", 725.04, AS PER PLAN
632	15	EACH	DOWN GUY
632	6,000	FT	INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 144 STRAND
632	2,000	FT	INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 24 STRAND
632	1,000	FT	INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 288 STRAND
632	500	FT	INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 72 STRAND
632	1,000	FT	INTERCONNECT CABLE, MISC.: FIBER OPTIC DROP CABLE, 24 STRAND
632	2,000	EACH	INTERCONNECT CABLE, MISC.: FIBER OPTIC FUSION SPLICE
632	750	FT	INTERCONNECT CABLE, MISC.: OVERLASH TO EXISTING INTERCONNECT
632	2,500	FT	INTERCONNECT CABLE, MISC.: REMOVE EXISTING OVERHEAD INTERCONNECT
632	1,000	FT	INTERCONNECT CABLE, MISC.: REMOVE EXISTING UNDERGROUND INTERCONNECT
632	50	EACH	INTERCONNECT CABLE, MISC.: TERMINATION PANEL, 24 FIBER
632	2,000	FT	INTERCONNECT, MISC.: CAT 5E CABLE, OUTDOOR RATED
632	1	EACH	INTERCONNECT, MISC.: DUAL PANEL ASSEMBLY, 24 FIBER, 1 RU, PRE-TERMINATED
632	12	EACH	INTERCONNECT, MISC.: SPLICE ENCLOSURE, CLAMSHELL, 288 SPLICE
632	6	EACH	INTERCONNECT, MISC.: SPLICE ENCLOSURE, DOME, 800 SPLICE
632	2	EACH	INTERCONNECT, MISC.: TERMINATION PANEL, 144 FIBER, 4 RU
632	2	EACH	INTERCONNECT, MISC.: TERMINATION PANEL, 24 FIBER, 1 RU
632	2	EACH	INTERCONNECT, MISC.: TERMINATION PANEL, 288 FIBER, 4 RU
632	500	FT	INTERCONNECT, MISC.: UNDERGROUND FIBER OPTIC INSTALLATION
632	2,000	FT	MESSENGER WIRE, 7 STRAND, 1/4" DIAMETER WITH ACCESSORIES, AS PER PLAN
632	2	EACH	SIGNALIZATION, MISC.: CCTV IP-CAMERA SYSTEM
632	6	EACH	SIGNALIZATION, MISC.: CELLULAR ETHERNET COMMUNICATIONS UNIT
632	6	EACH	SPREAD SPECTRUM RADIO, AS PER PLAN
632	1	EACH	STRAIN POLE, DESIGN NO. 6
632	1	EACH	STRAIN POLE FOUNDATION, DESIGN NO. 6
632	10	EACH	WOOD POLE, CLASS 5, 35 FT
633	1	EACH	CABINET, TYPE 334, AS PER PLAN
633	1	EACH	CABINET, POLE MOUNTED, TYPE TS-2, AS PER PLAN
633	1	EACH	CABINET, GROUND MOUNTED, TYPE TS-2, AS PER PLAN
633	4	EACH	CONTROLLER ITEM, MISC.: ETHERNET EXTENDER
633	40	EACH	CONTROLLER ITEM, MISC.: FIBER OPTIC ETHERNET TRANSCEIVER, SHORT RANGE
633	5	EACH	CONTROLLER ITEM, MISC.: INTERNAL ETHERNET MODULE
633	20	EACH	CONTROLLER ITEM, MISC.: LAYER 2 ETHERNET SWITCH
633	2	EACH	CONTROLLER ITEM, MISC.: LAYER 3 ETHERNET SWITCH, ENVIRONMENTALLY HARDENED
633	8	EACH	CONTROLLER UNIT, TYPE TS2/A2, AS PER PLAN
807	5	EACH	VALVE BOX ADJUSTED TO GRADE
807	5	EACH	VALVE BOX ADJUSTED TO GRADE USING RISER
SPEC	50	EACH	TOWING PARKED CARS

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CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
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SCENIC RIVER COMMITMENTS

THE OLENTANGY RIVER IS DESIGNATED A STATE SCENIC RIVER FROM THE OLD WILSON BRIDGE ROAD IN WORTHINGTON (WITHIN THE PROJECT LIMITS) TO JUST BELOW THE DELAWARE DAM IN DELAWARE (NORTH OF THE PROJECT LIMITS).

THE CONTRACTOR SHALL NOT DISCHARGE TOXIC OR HAZARDOUS MATERIALS SUCH AS SEALANTS, PAINT, SOLVENTS, CLEANING AGENTS, EARTHEN MATERIALS, WASTE-WATER, FUELS OR DEBRIS OF ANY KIND TO A SCENIC RIVER, ITS TRIBUTARIES, OR DRAINAGE WAYS. IF REFUELING OF IMMOBILE EQUIPMENT IS NECESSARY WITHIN THE FLOODPLAIN OR NEAR ANY TRIBUTARY DRAINAGE WAYS, DITCHES, OR STREAM, THE CONTRACTOR SHALL PROVIDE SECONDARY CONTAINMENT WITH ENOUGH CAPACITY TO COMPLETELY CONTAIN AND COLLECT ALL POTENTIAL LIQUID WASTES IN THE EVENT OF A SPILL.

ANY AND ALL CONSTRUCTION DEBRIS, EARTHEN DEBRIS, EXCESS ASPHALT OR CONCRETE, WOOD DEBRIS FROM CLEARING, EXCESS FILL MATERIAL, AND TRASH SHOULD BE DISPOSED OF AT AN APPROVED UPLAND SITE OR LAND FILL ABOVE FEMA 100-YEAR FLOOD ELEVATIONS. DISPOSAL OF ANY SUCH MATERIALS WITHIN 1000 FEET OF THE OLENTANGY RIVER IS PROHIBITED.

IN ACCORDANCE WITH ORC 3750.06, REPORTABLE SPILLS MUST BE REPORTED TO THE LOCAL FIRE DEPARTMENT (911); THE LOCAL EMERGENCY COORDINATOR (740-368-1911 (DELAWARE COUNTY) OR 614-794-0213 (FRANKLIN COUNTY)), AND THE OHIO SPILL LINE (1-800-282-9378).

THE CONTRACTOR SHALL KEEP ALL IDLE EQUIPMENT, FUELS, LUBRICANTS, AND ANY STORAGE FOR/OF POTENTIALLY TOXIC OR HAZARDOUS MATERIALS OUT OF THE FEMA DESIGNATED SPECIAL FLOOD HAZARD AREA AND NOT WITHIN 1000 FEET OF THE STATE SCENIC RIVER SECTION OF THE OLENTANGY RIVER.

THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER 40 DAYS PRIOR TO WORK WITHIN 1000 FEET OF THE STATE SCENIC RIVER SECTION OF THE OLENTANGY RIVER. THE PROJECT ENGINEER SHALL NOTIFY THE DISTRICT ENVIRONMENTAL COORDINATOR 35 DAYS PRIOR TO WORK WITHIN 1000 FEET OF THE STATE SCENIC RIVER SECTION OF THE OLENTANGY RIVER. IF COORDINATION WITH ODNR HAS NOT ALREADY OCCURED, AND THE PROJECT REQUIRES NOTIFICATION TO THE SCENIC RIVER MANAGER PRIOR TO CONSTRUCTION PER THE SCENIC RIVER MOA, THE DISTRICT ENVIRONMENTAL COORDINATOR SHALL COORDINATE WITH ODNR SCENIC RIVERS 30 DAYS PRIOR TO ANY WORK WITHIN 1000 FEET OF STATE SCENIC RIVER SECTION OF THE OLENTANGY RIVER.

THE CONTRACTOR SHALL DEVELOP AND IMPLEMENT A SWPPP, PER CITY OF COLUMBUS CMS SECTION 207, BEFORE EARTHWORK COMMENCES. SEDIMENT AND EROSION CONTROLS SHALL BE PROPERLY INSTALLED AND MAINTAINED THROUGHOUT THE DURATION OF THE PROJECT. STRAW BALES SHALL NOT BE PERMITTED AS A FORM OF SEDIMENT CONTROL. ENSURE TIMELY ADHERENCE TO THE GENERAL CONSTRUCTION PERMIT FOR ALL SEDIMENT AND EROSION CONTROLS, INCLUDING SEEDING AND MULCHING. PARTICULAR ATTENTION SHALL BE GIVEN TO ANY DRAINAGE WAYS, UNPROTECTED SLOPES, DITCHES AND STREAMS THAT COULD CONVEY SEDIMENT LADEN WATERS DIRECTLY TO THE STATE SCENIC RIVER SECTION OF THE OLENTANGY RIVER.

WHEN CUTTING AND CLEARING OF ANY VEGETATION WITHIN 1000 FEET OF THE STATE SCENIC RIVER SECTION OF THE OLENTANGY RIVER, THE CONTRACTOR SHALL LIMIT THE AMOUNT OF VEGETATION BEING CLEARED TO THE ABSOLUTE MINIMUM NECESSARY TO ACCOMPLISH THE GOAL OF THE PROJECT. VERTICAL PRUNING OF TREES IS PERMITTED IF ANY OVERHANGING LIMBS CAUSE A SAFETY HAZARD OR OBSTRUCT VIEW. THE CONTRACTOR SHALL NOT USE A FLAIL MOWER FOR VERTICAL PRUNING. THE CONTRACTOR MUST AVOID GIRDLING OR SCUFFING TREE TRUNKS.

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FIELD OFFICE

THE CONTRACTOR SHALL FURNISH AND MAINTAIN A FIELD OFFICE, TYPE C, FOR USE BY CITY OF COLUMBUS CONSTRUCTION PERSONNEL, AT A LOCATION TO BE APPROVED BY THE ENGINEER, THROUGHOUT THE DURATION OF THE PROJECT. REFER TO CMSC SECTION 619 FOR DETAILS AND REQUIREMENTS.

ITEM 619 - FIELD OFFICE, TYPE C - 18 MONTHS

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CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E - FINAL SUBMITTAL

ITEM 614 – MAINTAINING TRAFFIC, LUMP SUM AS PER PLAN

IN ADDITION TO THE REQUIREMENTS OF ITEM 614 MAINTAINING TRAFFIC, THE FOLLOWING REQUIREMENTS SHALL ALSO APPLY:

TEMPORARY TRAFFIC CONTROL ITEMS

1. ALL TEMPORARY TRAFFIC CONTROL (TTC) DEVICES SHALL BE FURNISHED, ERECTED, MAINTAINED AND REMOVED BY THE CONTRACTOR IN ACCORDANCE WITH THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS (CURRENT EDITION). COPIES ARE AVAILABLE FROM THE OHIO DEPARTMENT OF TRANSPORTATION, OFFICE OF CONTRACTS, 1980 WEST BROAD STREET, COLUMBUS, OHIO 43223. NOTE: ALL DEVICES SHALL COMPLY, FOR CONDITION AND LOCATION, WITH THE CURRENT EDITION OF THE NCHRP 350 CRASH TESTING GUIDELINES.
2. CONSTRUCTION OPERATIONS SHALL NOT BEGIN UNTIL ALL TRAFFIC CONTROL IS IN PLACE AND APPROVED BY THE DIVISION OF DESIGN AND CONSTRUCTION INSPECTOR. IF THE CONTRACTOR DOES NOT COMPLY WITH THE STANDARDS, INCLUDING THE INSTALLATION OF TEMPORARY PAVEMENT MARKINGS AND THE REMOVAL OF CONFLICTING TRAFFIC CONTROLS, THEIR PERMIT SHALL BE REVOKED AND ALL WORK SHALL BE TERMINATED. TEMPORARY PAVEMENT MARKINGS TO INCLUDE, BUT NOT BE LIMITED TO, CHANNELIZING LINES, EDGE LINES, AND CENTERLINES SHALL BE INSTALLED AND MAINTAINED ON ALL CONSTRUCTION OPERATIONS LASTING A MINIMUM OF 14 CALENDAR DAYS OR AS DIRECTED BY THE TEMPORARY TRAFFIC CONTROL COORDINATOR OR THE PROJECT ENGINEER.
3. PORTABLE CHANGEABLE MESSAGE SIGNS (PCMS) SHALL BE INSTALLED A MINIMUM OF 7 DAYS PRIOR TO CLOSURE OF A ROADWAY. THE MESSAGE SHALL ADVISE THE MOTORIST OF THE DATES, TIMES, AND DURATION OF THE CLOSURE. THE PCMS SHALL REMAIN IN PLACE FOR 7 DAYS AFTER THE START OF THE CLOSURE.
4. THE CONTRACTOR SHALL GIVE ADVANCED NOTIFICATION (WRITTEN AND VERBALLY) TO THE TEMPORARY TRAFFIC CONTROL COORDINATOR AT (614) 645–6269 OR (614) 645–5845, THE COLUMBUS PAVING THE WAY PROGRAM COORDINATOR AT (614) 645–7283 OR (614) 645–6016, AND THE PROJECT MANAGER, INFORMING THEM OF ALL UPCOMING TRAFFIC PATTERN CHANGES. NOTIFICATION SHALL INCLUDE, BUT NOT BE LIMITED TO, WHAT, WHERE, WHEN, AND HOW PEDESTRIAN AND VEHICULAR TRAFFIC WILL BE AFFECTED, AND THE TEMPORARY TRAFFIC CONTROL PROCEDURES THE CONTRACTOR IS PLANNING TO USE. THE TYPE OF TRAFFIC CHANGE SHALL DETERMINE THE LENGTH OF ADVANCE NOTIFICATION REQUIRED:

TYPE OF CHANGE	ADVANCE NOTIFICATION NEEDED
DETOURS/ROAD CLOSURES	30–DAY NOTIFICATION PRIOR TO CLOSURE.
LANE CLOSURES LASTING 2 WEEKS OR MORE	2–WEEKS
LANE CLOSURES OF LESS THAN 2 WEEKS	3–DAYS
LANE CLOSURES OF 2 DAYS OR LESS	1–DAY

ANY OTHER UNFORESEEN IMPACTS TO TRAFFIC SHALL BE IMMEDIATELY REPORTED AS THEY OCCUR.

5. A TTC PLAN (TTCP) INCLUDING PEDESTRIAN CONTROL SHALL BE SUBMITTED TO THE TTC COORDINATOR AT (614) 645–6269 OR (614) 645–5845 AT THE PRE–CONSTRUCTION MEETING OR A MINIMUM OF TEN (10) WORKING DAYS PRIOR TO BEGINNING WORK. COPIES OF THE APPROVED TTCP SHALL BE GIVEN TO THE PROJECT ENGINEER AND KEPT ON SITE ALONG WITH THE STREET CLOSURE/OCCUPANCY PERMIT.
6. TYPE C STEADY–BURN OR TYPE D 360–DEGREE STEADY–BURN WARNING LIGHTS SHALL BE REQUIRED ON ALL BARRICADES, DRUMS, AND SIMILAR TRAFFIC CONTROL DEVICES IN USE AT NIGHT. ONLY 42 REFLECTORIZED CHANNELIZING DEVICES (DRUMS) SHALL BE PERMITTED FOR NIGHTTIME WORK WITH THE APPROVAL OF THE TTC COORDINATOR AT (614) 645–6269 OR (614) 645–5845 PER O.D.O.T. STANDARDS.
7. A FLASHING ARROW PANEL (48" X 96"–TYPE C) SHALL BE USED IN LANE CLOSURES AS PER THE OHIO MANUAL.
8. ALL TRENCHES WITHIN THE ROAD RIGHT–OF–WAY SHALL BE BACKFILLED OR SECURELY PLATED PER (CITY OF COLUMBUS GENERAL POLICY ON STEEL PLATE USAGE DATED 11/15/2006 AND 2007 STD. DWG. 1441) DURING NON–WORKING HOURS.
9. ACCESS FOR PEDESTRIAN AND VEHICULAR TRAFFIC TO ALL ADJOINING PROPERTIES SHALL BE MAINTAINED AT ALL TIMES.
11. ALL TRAFFIC LANES SHALL BE FULLY OPEN TO TRAFFIC FROM 6:00 AM TO 9:00 AM AND 4:00 PM AND TO 6:00 PM, OR 5:00 AM TO 9:00 AND 3:00 PM TO 7:00 PM WITHIN THE COLUMBUS BUSINESS DISTRICT (CBD) PARKING AREA, MONDAY THROUGH FRIDAY. TRAFFIC LANE CLOSURE(S) ARE PERMITTED DURING WORKING HOURS ON ONLY THOSE STREET IDENTIFIED ON THE MAINTENANCE OF TRAFFIC TABLE SHEETS 28 THRU 30.
14. TWO–WAY, ONE–LANE TRAFFIC MAY BE MAINTAINED DURING CONSTRUCTION OPERATIONS ON ONLY THOSE STREET IDENTIFIED ON THE MAINTENANCE OF TRAFFIC TABLE, PER FIGURE 6H–10 (TA–10) OF THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
17. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION AND SAFE MOVEMENT OF PEDESTRIANS THROUGH, AROUND, OR DETOURED AWAY FROM THE CONSTRUCTION SITE. TRAFFIC CONTROL FOR PEDESTRIAN MOVEMENT SHALL BE AS PER FIGURE 6H–28 (TA–28) AND 6H–29 (TA–29) OF PART IV OF THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. ALL SIDEWALK DIVERSIONS AND TEMPORARY MID–BLOCK CROSSINGS SHALL BE PRE–APPROVED BY THE PROJECT ENGINEER OR THE TEMPORARY TRAFFIC CONTROL COORDINATOR.
18. THE DEPARTMENT OF PUBLIC SERVICE, DIVISION OF PLANNING AND OPERATIONS WILL REMOVE OR COVER ALL PARKING METER HEADS PUT OUT OF SERVICE BY THIS PROJECT. THERE IS A $60.00 DOLLAR CHARGE FOR THE REMOVAL AND REINSTALLATION OF EACH METER. IN ADDITION, A DAILY METER FEE WILL BE CHARGED FOR ALL ENFORCEMENT HOURS FOR EACH METER TAKEN OUT OF SERVICE. THESE CHARGES WILL BE COLLECTED FROM THE CONTRACTOR IN ADVANCE WITH THE ISSUANCE OF THE STREET OCCUPANCY/EXCAVATION PERMIT FROM THE DIVISION OF PLANNING AND OPERATIONS' PERMIT OFFICE (614) 645–7497. THE PROJECT ENGINEER SHALL BE NOTIFIED A MINIMUM OF FORTY–EIGHT (48) HOURS (EXCLUDING SAT, SUN, & HOLIDAYS) PRIOR TO BEGINNING WORK.
19. TEMPORARY "EMERGENCY NO PARKING" SIGNS SHALL BE INSTALLED AT 50' C/C MINIMUM BY USE OF EXISTING SIGN POSTS AND/OR DRUMS AND REMOVED BY THE CONTRACTOR IN AREAS WITH NO PARKING METERS. THE SIGNS SHALL HAVE THE INSTALLATION DATE, WORKING DATES, AND HOURS OF RESTRICTION SHOWN ON EACH SIGN. THESE SIGNS MAY BE OBTAINED FROM THE DIVISION OF PLANNING AND OPERATIONS' PERMIT OFFICE. THE POLICE DIVISION REQUIRES THE "EMERGENCY NO PARKING" SIGNS BE POSTED A MINIMUM OF SEVENTY–TWO (72) HOURS PRIOR TO ANY VEHICLES BEING TOWED. WITHIN TWENTY–FOUR (24) HOURS OF POSTING, THE CONTRACTOR SHALL SUPPLY THE DIVISION OF DESIGN AND CONSTRUCTION WITH A WRITTEN RECORD OF POSTED LOCATIONS (FAX: (614) 645–3298).
20. TRAFFIC OPERATIONS' PERSONNEL SHALL LOCATE AND MARK ALL UNDERGROUND TRAFFIC CONTROL CABLES. THE TRAFFIC OPERATIONS SHOP SHALL BE NOTIFIED AT (614) 645–7393 (FAX: (614) 645–5967) AT LEAST FORTY–EIGHT (48) HOURS (EXCLUDING SAT. & SUN.) PRIOR TO THE BEGINNING OF ANY WORK WITHIN 450 FEET OF ANY SIGNALIZED INTERSECTION(S) OR WITHIN ANY POSTED AREA WHERE THE DIVISION HAS UNDERGROUND CABLE. THE SIGNAL OPERATION ENGINEER (645–6418) SHALL BE NOTIFIED SIX (6) WEEKS IN ADVANCE FOR SIGNAL REVISIONS OR POLE RELOCATIONS.
21. NO EXCAVATION SHALL BE MADE WITHIN FIVE (5) FEET OF ANY FOUNDATION THAT SUPPORTS SIGNAL POLES, TRAFFIC SIGNAL DISPLAYS OR SIGNS BY MAST ARM OR SIGNAL SPAN. EXCAVATION WITHIN EIGHT (8) FEET, BUT MORE THAN FIVE (5) FEET SHALL REQUIRE ADDITIONAL SUPPORT (DOWN GUY, HEAD GUY, BASE GUY, ETC.). THE CONTRACTOR SHALL CONTACT THE PROJECT ENGINEER AT LEAST FORTY–EIGHT (48) HOURS (EXCLUDING SAT. & SUN.) PRIOR TO THE BEGINNING OF SUCH EXCAVATION SO THAT THE CITY CAN APPROVE THE STABILIZATION SETUP BY THE CONTRACTOR. STABILIZATION SHALL BE APPROVED BY THE ENGINEER AND WILL BE DONE BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE.
22. WHEN ANY TRAFFIC CONTROL DEVICE, CONDUIT, OR CABLE IS DAMAGED, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER. IF UNABLE TO CONTACT THE ENGINEER CALL (614) 645–7393.
23. THE ROADWAY SHALL NOT BE OPENED TO NON–CONSTRUCTION TRAFFIC UNTIL THE CRITICAL PERMANENT TRAFFIC CONTROLS ARE IN PLACE, OR UNTIL TEMPORARY TRAFFIC CONTROLS APPROVED BY THE ENGINEER, ARE INSTALLED. THE CRITICAL PERMANENT TRAFFIC CONTROLS ARE STOP, YIELD, ONE WAY, DO NOT ENTER AND RESTRICTED TURN SIGNS. OTHER CRITICAL SIGNS MAY BE NOTED ON THE PLANS AS WELL. THE CONTRACTOR ASSUMES ALL LIABILITY FOR THE PREMATURE REMOVAL OF TEMPORARY TRAFFIC CONTROLS.
24. THE ROADWAY OR ANY SECTION OF ROADWAY SHALL NOT BE OPENED TO NON–CONSTRUCTION TRAFFIC UNTIL ALL TEMPORARY, NON–REFLECTIVE, BLACKOUT TAPE HAS BEEN COMPLETELY REMOVED FROM NON–CONFLICTING PERMANENT PAVEMENT MARKINGS FOR THAT AREA OF THE ROADWAY, OR UNLESS OTHERWISE DIRECTED IN WRITING BY THE ENGINEER. THIS IS SUPPLEMENTAL TO CMS–614.11–F, AND SHALL BE PAID FOR THROUGH THE (614) LUMP SUM.
25. THE CONTRACTOR SHALL MAINTAIN ALL PERMANENT TRAFFIC CONTROLS NOT IN CONFLICT WITH THE TEMPORARY TRAFFIC CONTROLS THROUGHOUT THIS PROJECT. PERMANENT TRAFFIC CONTROLS MAY BE TEMPORARILY RELOCATED OR COVERED, AS APPROVED BY THE ENGINEER. THE CONTRACTOR SHALL ASSUME ALL LIABILITY FOR MISSING, DAMAGED, OR IMPROPERLY PLACED SIGNS.
26. ANY WORK DONE BY THE DIVISION OF PLANNING AND OPERATIONS, INCLUDING INSTALLATION, RELOCATION, REMOVAL AND/OR REPLACEMENT OF TEMPORARY TRAFFIC CONTROL DEVICES AS A RESULT OF WORK DONE BY THE CONTRACTOR OR AS A RESULT OF NEGLIGENCE OF THE CONTRACTOR, SHALL BE AT THE CONTRACTORS' EXPENSE.
27. WHENEVER YELLOW CENTERLINES OR TURN–LANE LINES ARE PAVED OVER, REMOVED, OR OTHERWISE UNSERVICEABLE, THE CONTRACTOR SHALL INSTALL CLASS II TEMPORARY STRIPING (MINIMUM 4' LONG SEGMENTS). TEMPORARY PAINT SHALL BE USED ON ALL MILLED SURFACES. TEMPORARY TAPE SHALL BE USED ON ALL FINAL COURSES OF ASPHALT. PAINT OR TAPE MAY BE USED ON INTERMEDIATE COURSES OF ASPHALT. IF APPROVED BY THE ENGINEER, DRUMS WITH STEADY BURNING TYPE C OR TYPE D 360 DEGREE WARNING LIGHTS AND KEEP RIGHT SIGNS MAY BE SUBSTITUTED FOR CENTERLINE MARKINGS.
28. CLASS II TEMPORARY STRIPING (MINIMUM 4' LONG SEGMENTS) SHALL BE AS PER ITEM 614 – WORK ZONE PAVEMENT MARKING AND SHALL BE PLACED WITHIN ONE (1) FOOT LONGITUDINAL TOLERANCE OF THE PERMANENT STRIPE(S). ALL TEMPORARY STRIPING NOT TO WITHIN ONE (1) FOOT TOLERANCE SHALL BE REMOVED AND REPLACED IN THE PROPER LOCATION BY THE CONTRACTOR. CLASS II TEMPORARY STRIPING SHALL BE OF THE APPROPRIATE COLOR AND SPACED A MAXIMUM OF FORTY (40) FEET CENTER TO CENTER.
29. ALL COSTS THAT CONSIST OF MAINTAINING AND PROTECTING VEHICULAR AND PEDESTRIAN TRAFFIC ACCORDING TO THE LATEST EDITION OF THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (OMUTCD), AND PER THE REQUIREMENTS DESIGNATED IN THE PLAN INCLUDING ALL LAW ENFORCEMENT OFFICER (LEO) AND FLAGGER HOURS SHALL BE INCLUDED IN THE LUMP SUM, ITEM 614.

IN ADDITION TO THE REQUIREMENTS HEREIN, AND THE LATEST EDITION OF THE OMUTCD, A UNIFORMED LAW ENFORCEMENT OFFICER (LEO) SHALL BE PROVIDED FOR CONTROLLING TRAFFIC UNDER THE FOLLOWING CONDITIONS:

- WORK WITHIN A SIGNALIZED INTERSECTION, DEFINED AS THE AREA BOUNDED BY THE REAR X–WALK LINES
- WHEN FLAGGING WITHIN THE INTERSECTION OF TWO ARTERIAL ROADWAYS
- WHEN SPECIFIED IN THE MAINTENANCE OF TRAFFIC PLAN OR AS DIRECTED BY THE PROJECT ENGINEER
- WORK ON MAINLINE LANES OF TRAVEL ON INTERSTATES AND STATE ROUTES (FREEWAYS)
- ANY ENTRANCE OR EXIT RAMPS
- ANY OTHER SITUATION THE CONTRACTOR DEEMS NECESSARY FOR THE SAFETY OF ITS EMPLOYEES OR THE PUBLIC

A FLAGGER SHALL BE UTILIZED TO ASSIST IN CONTROLLING TRAFFIC WHILE EQUIPMENT IS ENTERING OR EXITING AN INTERSECTION OR WORK ZONE. THE CONTRACTOR MAY UTILIZE HIS OWN FLAGGER OR LEO UNDER ITEM 614 MAINTAINING TRAFFIC, LUMP SUM.

FLAGGERS AND LEOS SHALL BE EQUIPPED ACCORDING TO THE STANDARDS FOR FLAGGING TRAFFIC CONTAINED IN THE OMUTCD. FLAGGING OPERATIONS PERFORMED BY LEO'S OR DESIGNATED FLAGGERS SHALL ONLY BE PERMITTED AS LONG AS ALL TRAFFIC CONTROL IS IN PLACE ACCORDING TO FIGURE 6H–10 (TA–10) IN THE OMUTCD.

IF THE CONTRACTOR WISHES TO UTILIZE LEO'S FOR TRAFFIC CONTROL OTHER THAN FOR THAT REQUIRED IN THE PLANS, THEY MAY DO SO AT THEIR OWN EXPENSE. THE CONTRACTOR SHALL MAKE ARRANGEMENTS THROUGH THE COLUMBUS POLICE DIVISION AT (614) 645–4795.

LEO'S SHALL BE CONSIDERED TO BE EMPLOYED BY THE CONTRACTOR AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR THEIR ACTIONS. ALTHOUGH EMPLOYED BY THE CONTRACTOR, THE CITY REPRESENTATIVE SHALL HAVE CONTROL OVER THEIR PLACEMENT.

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IF A SAFETY HAZARD DEVELOPS, A LEO MAY BE ASSIGNED BY THE COLUMBUS SAFETY AND SERVICE DIRECTOR AT THE CONTRACTOR'S EXPENSE.

EXISTING PERMANENT TRAFFIC CONTROL ITEMS

1. ALL OVERHEAD CABLE, DOWN GUYS OR BACK GUYS SHALL NOT BLOCK ANY PORTION OF A TRAFFIC SIGNAL, TRAFFIC CONTROL SIGN, OR OTHER TRAFFIC CONTROL DEVICE SUCH THAT VISIBILITY OR OPERATION OF THE TRAFFIC CONTROL DEVICE IS IMPAIRED.

2. THE ROADWAY SHALL NOT BE OPENED TO NON-CONSTRUCTION TRAFFIC UNTIL THE CRITICAL PERMANENT TRAFFIC CONTROLS ARE IN PLACE, OR UNTIL TEMPORARY TRAFFIC CONTROLS APPROVED BY THE ENGINEER, ARE INSTALLED. THE CRITICAL PERMANENT TRAFFIC CONTROLS ARE STOP, YIELD, ONE WAY, DO NOT ENTER AND RESTRICTED TURN SIGNS. OTHER CRITICAL SIGNS MAY BE NOTED ON THE PLANS AS WELL. THE CONTRACTOR ASSUMES ALL LIABILITY FOR THE PREMATURE REMOVAL OF TEMPORARY TRAFFIC CONTROLS.

3. ALL PROPOSED PERMANENT PAVEMENT MARKINGS AND TRAFFIC CONTROL SIGNS AS SHOWN ON THIS PLAN SHALL BE INSTALLED BY THE CONTRACTOR AT THE PROJECTS EXPENSE. THE PROJECT ENGINEER SHALL BE NOTIFIED TO DIRECT APPROPRIATE PERSONNEL A MINIMUM OF FORTY-EIGHT (48) HOURS (EXCLUDING SAT. & SUN.) PRIOR TO THE INSTALLATION OF PERMANENT MARKINGS TO INSPECT AND APPROVE THE PAVEMENT MARKING LAYOUT PRIOR TO PLACING THE PERMANENT MARKINGS.

4. ANY WORK DONE BY THE DIVISION OF PLANNING AND OPERATIONS, INCLUDING INSTALLATION, RELOCATION, REMOVAL AND/OR REPLACEMENT OF PERMANENT TRAFFIC CONTROL DEVICES AS A RESULT OF WORK DONE BY THE CONTRACTOR OR AS A RESULT OF NEGLIGENCE OF THE CONTRACTOR, SHALL BE AT THE CONTRACTORS' EXPENSE.

5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REINSTALLATION AND/OR REPLACEMENT OF ALL PERMANENT TRAFFIC CONTROL DEVICES DAMAGED OR REMOVED DURING CONSTRUCTION. PERMANENT TRAFFIC CONTROL NO LONGER IN CONFLICT WITH TEMPORARY TRAFFIC CONTROL SHALL BE REPLACED IMMEDIATELY.

6. PERMANENT STRIPING OR CLASS I TEMPORARY STRIPING SHALL BE INSTALLED NO LATER THAN FOURTEEN (14) CALENDAR DAYS AFTER THE FINAL PAVING COURSE IS COMPLETED. THE PAVING CONTRACTOR SHALL BE RESPONSIBLE TO NOTIFY THE STRIPING CONTRACTOR TO INSURE THE PERMANENT STRIPING IS INSTALLED WITHIN THE FOURTEEN (14) CALENDAR DAY LIMIT.

7. AT ANY LOCATION WHERE THE CONTRACTOR DAMAGES DETECTORS AND/OR THEIR LEAD-IN CABLES THE CONTRACTOR SHALL REPLACE THEM. AT ANY LOCATION WHERE DETECTION IS CHANGED FROM MAG PROBE UNITS TO LOOPS, THE CONTRACTOR SHALL REPLACE THE PROBE LEAD-IN WITH LOOP LEAD-IN CABLE. ALL REPAIRS TO DETECTION SHALL BE COMPLETED WITHIN 21 DAYS FROM DAMAGE TO DETECTION ON A PER INTERSECTION BASIS. IF THE 21 DAY REPAIR REQUIREMENT CANNOT BE SATISFIED AT ANY LOCATION WHERE THE CONTRACTOR DAMAGES DETECTORS AND/OR THEIR LEAD-IN CABLES, THE CONTRACTOR, AT THE DISCRETION OF ENGINEER, MAY BE REQUIRED TO INSTALL TEMPORARY VIDEO DETECTION OR TEMPORARY LOOP DETECTION. ANY CONTRACTOR FAILING TO COMPLY WITH THESE GUIDELINES SHALL BE SUBJECT TO PENALTY TO THE SUM OF $100.00 PER DAY FOR EACH DAY BEYOND THE 21 DAY REPAIR PERIOD ON A PER INTERSECTION BASIS, UNTIL CONDITIONS ARE MET TO THE SATISFACTION OF THE ENGINEER. THIS PENALTY DEDUCTION SHALL BE SPECIFIC FOR EACH SIGNALIZED INTERSECTION EFFECTED BY THIS PROJECT AND SEPARATE FROM ANY LIQUIDATED DAMAGES FOR THE PROJECT AS A WHOLE. THE WORK TO INSTALL THE DETECTION SHALL CONFORM TO ODOT STANDARD CONSTRUCTION DRAWING TC-82.10 (DATED 01/21/11 OR LATER) AND TO THE CURRENT CITY OF COLUMBUS (COC) CONSTRUCTION AND MATERIAL SPECIFICATIONS WITH THE FOLLOWING PROVISIONS:

   A) THE CONTRACTOR SHALL PROVIDE THE DIVISION OF DESIGN AND CONSTRUCTION'S INSPECTOR, PRIOR TO THE COMMENCEMENT OF WORK, THE IMSA (INTERNATIONAL MUNICIPAL SIGNAL ASSOCIATION) CERTIFICATION PAPERS FOR ALL SIGNAL TECHNICIANS WORKING ON THIS PROJECT.

   B) LOCATIONS OF THE REPLACEMENT DETECTION SHALL BE FIELD MARKED OR DIMENSIONED DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER. LOCATION OF FINAL PAVEMENT MARKINGS OR THE MARKINGS THEMSELVES SHALL BE CLEARLY INDICATED ON THE ASPHALT PRIOR TO DETECTOR LOCATIONS BEING MARKED. THE CONTRACTOR SHALL LAYOUT THE LOOPS ON THE PAVEMENT IF DRAWINGS ARE SUBMITTED. IF DRAWINGS HAVE NOT BEEN PROVIDED, CONTACT THE ENGINEER AT LEAST TWO WORKING DAYS PRIOR TO NEEDING THE LOCATION MARKED.

   C) THE SAWSLOT DEPTH FOR LOOP WIRE INSTALLATION SHALL BE FOUR (4) INCHES WITH SIX (6) INCHES AT THE CONDUIT ENTRANCE. IF ADVERSE PAVEMENT CONDITIONS WARRANT, DEPTH MAY BE INCREASED TO SIX (6) INCHES THROUGHOUT AND SHALL BE DETERMINED BY THE DIVISION OF DESIGN AND CONSTRUCTION INSPECTOR.

   D) EACH LOOP SHALL HAVE ITS OWN CONDUIT FROM EDGE OF PAVEMENT TO PULL BOX UNLESS SPECIFIED OTHERWISE BY THE DIVISION OF DESIGN AND CONSTRUCTION INSPECTOR.

   E) THE PULLBOX ASSEMBLY SHALL BE RATED AS MEDIUM TO HEAVY DUTY, TO BE INSTALLED IN CONCRETE WALKWAYS, AND SHALL HAVE ALL STAINLESS STEEL HARDWARE. THE PULLBOX COVER SHALL HAVE THE WORD "TRAFFIC" ON IT. THE COVER SHALL BE BOLTED TO THE BOX AND SHALL BE EITHER POLYMER CONCRETE OR STEEL PLATE. THE COVER PLUS HOUSING AS A UNIT SHALL BE RATED TO WITHSTAND A MINIMUM 20,000 LB. STATIC LOAD OVER A 10 X10 AREA AS PER ASTM C-857. THE BOX DEPTH SHALL BE 18 INCHES MINIMUM TO 30 INCHES MAXIMUM. IF THE PROJECT DOES NOT SPECIFY CMSC 725.06 POLYMER CONCRETE PULL BOXES, THE SUPPLIED ASSEMBLIES SHALL BE AS FOLLOWS: CDR SYSTEMS MODEL SA32-1015-18, OR OLD CASTLE SYNERTECH MODEL 11 X18 X18". SIX (6) INCHES OF #4 AGGREGATE SHALL BE PLACED AT THE BOTTOM OF THE PULLBOX. NO CONDUIT SHALL PROTRUDE MORE THAN THREE (3) INCHES INSIDE THE PULLBOX. CONDUIT ELLS OR EXTENSIONS MAY BE USED TO ALIGN THE CONDUIT WITH THE HOUSING. THE COST FOR EXTENSIONS OR ELLS IF NEEDED SHALL BE INCIDENTAL TO THE PER UNIT PRICE.

   F) WHEN A PULLBOX IS NOT USED, THE SOLDERED SPLICE SHALL BE MADE IN AN ANCHOR BASE STRAIN POLE OR A CONDUIT RISER SPECIFIED BY THE ENGINEER, EXCEPT WHERE A CONTROLLER CABINET IS MOUNTED ON THAT POLE IN WHICH CASE THE LOOP WIRE SHALL BE ROUTED DIRECTLY INTO THE CABINET.

   G) THE CONTRACTOR SHALL NOT MAKE ANY WIRING CONNECTIONS OR ADJUSTMENTS INSIDE THE CONTROL CABINET. WHEN SUCH CONNECTIONS ARE REQUIRED, THE CONTRACTOR SHALL NOTIFY THE TRAFFIC OPERATIONS SHOP 645-7393, MON.-FRI., 8 AM TO 4 PM, TO SCHEDULE CITY FORCES FOR MAKING THE ACTUAL CONNECTIONS. THE CONTRACTOR SHALL BE AVAILABLE AT THE AGREED TIME. THE CONTRACTOR WILL BE BILLED FOR ANY TIME THAT CITY FORCES ARE REQUIRED TO WAIT FOR THE CONTRACTORS' WORK TO BE COMPLETED.

   H) CONDUIT PLACED IN RIGHT OF WAY AREAS BEARING NO TRAFFIC FOR DETECTOR LEAD IN SHALL BE ITEM 725.051 CMSC, LATEST EDITION. CONDUIT PLACED UNDER A ROADWAY OR IN AREAS THAT MAY BEAR TRAFFIC SHALL BE ITEM 725.04 (SIZES AND TYPE TO BE DETERMINED BY THE ENGINEER). ALL CONDUITS SHALL BE PLACED AT A MINIMUM DEPTH OF 24 INCHES.

   I) LOOP WIRE SHALL BE IDENTIFIED WITH A PLASTIC TAG (WBLT, EBRT, ETC.) AT THE SPLICE POINT OR AT ENTRANCE TO THE CABINET IF LEAD-IN CABLE IS NOT USED.

   J) THE ITEMS AND ESTIMATED QUANTITIES FOR THE REPLACEMENT OF THE DIVISION OF PLANNING AND OPERATIONS' DETECTION ITEMS SHALL BE INCLUDED IN THESE PLANS OR AS DIRECTED BY THE DIVISION OF DESIGN AND CONSTRUCTION'S PLAN REVIEWER. THESE ESTIMATES ARE FOR THE PURPOSE OF BIDDING THE PROJECT.

THE CONTRACTOR SHALL NOTIFY THE ENGINEER AFTER ALL LOOPS HAVE BEEN INSTALLED AT EACH INTERSECTION. IF UNABLE TO MAKE CONTACT, CALL 645-7393. THE DIVISION OF PLANNING AND OPERATIONS SHALL INSPECT ALL SENSORS AND TEST AS NECESSARY. THE CONTRACTOR SHALL REPLACE ALL LOOPS NOT MEETING SPECIFICATIONS.

PEDESTRIAN PATHWAY PROVISIONS AND MAINTENANCE – TO BE INCLUDED WITH ITEM 614

NOTE: ALONG WITH SPECIFIC CITY OF COLUMBUS REQUIREMENTS THE PROVISIONS AND MAINTENANCE OF PEDESTRIAN PATHWAYS FOR THIS PROJECT SHALL BE COMPLIANT WITH, BUT NOT LIMITED TO, CHAPTER 6D – PEDESTRIAN AND WORKER SAFETY FROM THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (LATEST EDITION). NOTE: TEMPORARY MID-BLOCK CROSSWALKS ARE NOT APPROVED FOR CITY OF COLUMBUS APPLICATIONS.

SPECIAL ATTENTION SHALL BE GIVEN TO THE FOLLOWING:

1) ADVANCED WRITTEN NOTIFICATION OF SIDEWALK CLOSURES, DETOURS, SIGNAGE, AND OTHER PEDESTRIAN GUIDANCE SHALL BE PROVIDED TO THE SURROUNDING COMMUNITY AND THE APPROPRIATE CITY OF COLUMBUS PERSONNEL (THIS SHALL BE ACCOMPLISHED AS PER THE PRE- CONSTRUCTION AND ADVANCED NOTIFICATION REQUIREMENTS AS PRESCRIBED IN THE PLAN NOTES SECTION AND MAINTENANCE OF TRAFFIC NOTES SECTION RESPECTIVELY IN THIS SET OF PLANS). SIDEWALK CLOSURE AND/OR DETOUR SIGNS SHALL BE MOUNTED ON BARRICADES THAT COMPLETELY BLOCK THE AREA THAT IS CLOSED.

2) PEDESTRIAN ACCESS TO RESIDENCES AND BUSINESSES SHALL BE MAINTAINED AT ALL TIMES. MAINTAIN ACCESS TO BLOCKS FROM ONE END OR THE OTHER. FINISH WORK AT ONE END OF A BLOCK BEFORE DISTURBING THE OTHER END, OR INSTALL TEMPORARY SIDEWALK.

3) THERE SHALL NOT BE ANY ABRUPT CHANGES IN GRADE OR TERRAIN THAT COULD CAUSE A TRIPPING HAZARD OR COULD BE A BARRIER TO WHEELCHAIR USE. TEMPORARY WALKWAYS SHALL HAVE A SMOOTH HARD SURFACE, BE A MINIMUM OF 60" WIDE, AND WILL BE FREE OF ANY PROTRUSIONS.

4) IF A SIGNIFICANT POTENTIAL EXISTS FOR VEHICLE INCURSIONS INTO THE PEDESTRIAN PATH, PEDESTRIANS SHALL BE REROUTED OR TEMPORARY TRAFFIC DIVIDERS SHALL BE INSTALLED. IF A TEMPORARY TRAFFIC DIVIDER IS USED TO SHIELD PEDESTRIANS, IT SHALL BE DESIGNED TO ACCOMMODATE SITE CONDITIONS, PROVIDE AN ACCESSIBLE PASSAGE, AND BE DETECTABLE BY PEOPLE WITH DISABILITIES.

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CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
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COORDINATION WITH OTHER PROJECTS

THE CONTRACTOR IS ADVISED OF THE POSSIBILITY OF OTHER CONSTRUCTION CONTRACTS IN THE SAME AREAS. THE OTHER PROJECTS MAY BE GOING ON CONCURRENTLY WITH THE PROJECT AND CLOSE COOPERATION BETWEEN CONTRACTORS IS NECESSARY TO ENSURE THAT THE TRAFFIC MAINTENANCE OPERATIONS FOR EACH AREA ARE, AT ALL TIMES, COMPATIBLE. THE ENGINEERS SHALL WORK TOGETHER TO RESOLVE ANY CONFLICTS.

THE CONTRACTOR'S ATTENTION IS DIRECTED TO SECTION 105.08 OF THE CMS.

ITEM 614 – LAW ENFORCEMENT OFFICER (LEO) WITH PATROL CAR, AS PER PLAN

IN ADDITION TO THE LEO AND FLAGGER HOURS INCLUDED IN ITEM 614 MAINTAINING TRAFFIC, LUMP SUM; THE FOLLOWING QUANTITIES HAVE BEEN CARRIED FORWARD TO THE GENERAL SUMMARY TO BE USED AS DIRECTED BY THE ENGINEER OR AN ACCEPTABLE REPRESENTATIVE OF THE CITY OF COLUMBUS. THE OFFICIAL PATROL CAR WITH WORKING TOP MOUNTED EMERGENCY FLASHING LIGHTS SHALL BE A PUBLIC SAFETY VEHICLE AS REQUIRED BY THE OHIO REVISED CODE. THE CONTRACTOR SHALL BE PAID FOR THIS BID ITEM ONLY IF DIRECTED BY THE ENGINEER.

ITEM 614 – LAW ENFORCEMENT OFFICER WITH PATROL CAR, AS PER PLAN – 200 HOURS

ITEM 614 – LAW ENFORCEMENT OFFICER (LEO) WITHOUT PATROL CAR, AS PER PLAN

IN ADDITION TO LEO AND FLAGGER HOURS INCLUDED IN THE ITEM 614 MAINTAINING TRAFFIC, LUMP SUM; THE FOLLOWING QUANTITIES HAVE BEEN CARRIED FORWARD THE GENERAL SUMMARY TO BE USED AS DIRECTED BY THE ENGINEER OR AN ACCEPTABLE REPRESENTATIVE OF THE CITY OF COLUMBUS. THE CONTRACTOR SHALL BE PAID FOR THIS BID ITEM ONLY IF DIRECTED BY THE ENGINEER.

ITEM 614 – LAW ENFORCEMENT OFFICER WITHOUT PATROL CAR, AS PER PLAN – 200 HOURS

LANES OPEN DURING HOLIDAYS

NO WORK SHALL BE PERFORMED AND THE SAME NUMBER OF LANES AS WERE AVAILABLE AT THE START OF THE PROJECT SHALL BE OPEN TO TRAFFIC DURING THE FOLLOWING DESIGNATED HOLIDAYS OR EVENTS:

CHRISTMAS	FOURTH OF JULY
NEW YEARS	LABOR DAY
MEMORIAL DAY	THANKSGIVING

THE PERIOD OF TIME THAT THE LANES ARE TO BE OPEN DEPENDS ON THE DAY OF THE WEEK ON WHICH THE HOLIDAY OR EVENT FALLS. THE FOLLOWING SCHEDULE SHALL BE USED TO DETERMINE THIS PERIOD:

DAY OF HOLIDAY OR EVENT	TIME ALL LANES MUST BE OPEN TO TRAFFIC
SUNDAY	12:00N FRIDAY THROUGH 6:00 AM MONDAY
MONDAY	12:00N FRIDAY THROUGH 6:00 AM TUESDAY
TUESDAY	12:00N MONDAY THROUGH 6:00 AM WEDNESDAY
WEDNESDAY	12:00N TUESDAY THROUGH 6:00 AM THURSDAY
THURSDAY	12:00N WEDNESDAY THROUGH 6:00 AM FRIDAY
THURSDAY (THANKSGIVING ONLY)	5:00AM WEDNESDAY THROUGH 6:00 AM MONDAY
FRIDAY	12:00N THURSDAY THROUGH 6:00 AM MONDAY
SATURDAY	12:00N FRIDAY THROUGH 6:00 AM MONDAY

CITY OF COLUMBUS NOISE ORDINANCE

THE CONTRACTOR SHALL CONFORM TO THE CITY OF COLUMBUS CODE SECTION 2329.11.

CITY OF COLUMBUS SPECIAL EVENTS

THE CONTRACTOR SHALL CONTACT THE CITY OF COLUMBUS TEMPORARY TRAFFIC CONTROL COORDINATOR FOR ANY ADDITIONAL MOT REQUIREMENTS FOR SPECIAL EVENTS, INCLUDING OSU FOOTBALL HOME GAMES.

USE OF WEIGHTED CHANNELIZERS

THE WEIGHTED CHANNELIZER MAY BE USED IN ACCORDANCE WITH THIS SECTION. THE WEIGHTED CHANNELIZER SHALL BE PREDOMINANTLY ORANGE IN COLOR AND SHALL BE MADE OF LIGHTWEIGHT, FLEXIBLE, AND DEFORMABLE MATERIAL. THEY SHALL BE AT LEAST 42 INCHES IN HEIGHT WITH A WEIGHTED BASE. THE MAY HAVE A HANDLE OR LIFTING DEVICE WHICH EXTENDS ABOVE THE 42 INCHES MINIMUM HEIGHT.

THE MARKINGS ON THE WEIGHTED CHANNELIZER SHALL BE HORIZONTAL, CIRCUMFERENTIAL, ALTERNATING ORANGE AND WHITE RETROREFLECTIVE STRIPES 6 INCHES WIDE. EACH WEIGHTED CHANNELIZER SHALL HAVE A MINIMUM OF TWO ORANGE AND TWO WHITE STRIPES. ANY NON-RETROREFLECTIVE SPACES BETWEEN THE HORIZONTAL ORANGE AND WHITE STRIPES SHALL NOT EXCEED 2 INCHES WIDE. THE WEIGHTED CHANNELIZER SHALL HAVE A 4-INCH MINIMUM WIDTH, REGARDLESS OF ORIENTATION.

USE OF WEIGHTED CHANNELIZERS ON FREEWAYS AND MULTILANE HIGHWAYS SHALL BE LIMITED TO SHORT-TERM OPERATIONS FOR EITHER DAY OR NIGHT. UPON COMPLETION OF WORK, THE WEIGHTED CHANNELIZERS SHALL BE REMOVED. THE WEIGHTED CHANNELIZERS MAY AGAIN BE PLACED ON THE HIGHWAY WHEN THE WORK IS TO RESUME ON THE FOLLOWING DAY OR NIGHT. ANY LANE CLOSURE WORK USING CHANNELIZATION DEVICES, EXPECTED TO REMAIN FOR MORE THAN TWELVE HOUSE, SHALL REQUIRE THE USE OF DRUMS OR BARRICADES.

WHEN USED AT NIGHT, WEIGHTED CHANNELIZERS SHALL ONLY BE PLACED IN THE TANGENT AREA AND AT A MAXIMUM SPACING OF 40 FEET. THE TANGENT AREA IS DEFINED AS THE AREA AFTER THE TRANSITION TAPER WHERE THE WORK TAKES PLACE. DRUMS SHALL BE USED IN THE TRANSITION TAPERS FOR NIGHT OPERATIONS.

STEPS SHOULD BE TAKEN TO ENSURE THAT THE WEIGHTED CHANNELIZERS WILL NOT BE BLOWN OVER OR DISPLACED BY WIND OR MOVING TRAFFIC. BALLASTS SHOULD NOT PRESENT A HAZARD IF THE WEIGHTED CHANNELIZERS ARE INADVERTENTLY STRUCK, NOR SHOULD THEY AFFECT THE VISIBILITY OF THE WEIGHTED CHANNELIZERS. ALL BALLASTS USED SHOULD BE IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS.

PAYMENT SHALL BE INCLUDED IN THE LUMP SUM CONTRACT PRICE FOR ITEM 614 MAINTAINING TRAFFIC.

ITEM SPECIAL – TOWING PARKED CARS, EACH

THE CONTRACTOR IS TO BE RESPONSIBLE FOR NOTIFYING, BY LETTER WITH HIS COMPANY LETTERHEAD, RESIDENTS AND BUSINESSES ON STREETS WITH WORK TO BE PERFORMED. ADVANCED NOTICE SHALL BE TWO (2) WEEKS PRIOR TO THE FIRST DAY OF WORK ON THAT STREET. DOWNTOWN BUSINESS DISTRICT (DBD), DURATION OF THREE (3) WEEKS IS REQUIRED PRIOR TO MAKING NOTIFICATION IN THE DOWN TOWN AREA. FAILURE TO PROVIDE THE REQUIRED ADVANCED NOTICE WILL RESULT IN A ONE-HUNDRED (100) DOLLARS PER DAY PENALTY AS DETAILED IN NOTIFICATION REQUIREMENTS.

AFTER THE MINIMUM POSTING TIME HAS PASSED FOR "NO PARKING" RESTRICTION, VEHICLES IN THE WAY OF WORK CAN BE TOWED TO THE NEAREST ON STREET LOCATION OUTSIDE OF PLANNED WORK. THE CONTRACTOR MUST MAINTAIN A LIST OF VEHICLES TOWED INCLUDING THEIR LICENSE PLATE NUMBER AND LOCATION WHERE THEY WERE TOWED TO. PAYMENT FOR ALL WORK ASSOCIATED WITH TOWING VEHICLES WILL BE INCLUDED IN ITEM SPECIAL – TOWING PARKED CARS, EACH.

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CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
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Maintenance of Traffic Table for Multiple Locations

EXISTING CONDITIONS								MAINTENANCE OF TRAFFIC CONDITIONS						
STREET NAME	WORK LIMITS	SIGNALIZED INTERSECTIONS	PAVEMENT WIDTH	LANE WIDTH(S)	PARKING	COTA ROUTE	TRAFFIC PATTERN	TRAFFIC PATTERN	TYPE CLOSURE	LEO REQUIRED	SCD # OR DETAIL NAME/PG. #	DETOUR PG.#	WEEKDAY WORK HOURS	WEEKEND WORK HOURS
THIRD ST.	MOUND ST. TO NAGHTEN ST.	FOURTH AT MOUND	53'	11'/11'/17'	YES W/ PK HR RESTRICT.	Y	1W-3L	1W-2L	RIGHT LANE	Y	1510 & 1520	N	9AM - 3:30 PM	SEE NOTE
		FOURTH AT MAIN	53'	11'/11'/18'			1W-3L	1W-2L	RIGHT LANE	Y	1510 & 1520	N	9AM - 3:30 PM	SEE NOTE
		FOURTH AT RICH	53'	11'/11'/18'			1W-3L	1W-2L	RIGHT LANE	Y	1510 & 1530	N	9AM - 3:30 PM	SEE NOTE
		FOURTH AT TOWN	54'	11'/11'/21'			1W-3L	1W-2L	RIGHT LANE	Y	1510 & 1530	N	9AM - 3:30 PM	SEE NOTE
		FOURTH AT STATE	52'	11'/11'/18'			1W-3L	1W-2L	RIGHT LANE	Y	1510 & 1520	N	9AM - 3:30 PM	SEE NOTE
		FOURTH AT BROAD	54'	11'/11'/11'/12'			1W-4L	1W-3L	RIGHT LANE	Y	1510 & 1520	N	9AM - 3:30 PM	SEE NOTE
		FOURTH AT GAY	52'	11'/12'/11'			1W-3L	1W-2L	RIGHT LANE	Y	1510 & 1530	N	9AM - 3:30 PM	SEE NOTE
		FOURTH AT LONG	52'	11'/12'/11'			1W-3L	1W-2L	RIGHT LANE	Y	1510 & 1530	N	9AM - 3:30 PM	SEE NOTE
		FOURTH AT SPRING	53'	11'/11'/11'/11'			1W-4L	1W-3L	RIGHT LANE	Y	1510 & 1520	N	9AM - 3:30 PM	SEE NOTE
		FOURTH AT CHESTNUT	54'	11'/11'/11'/12'			1W-4L	1W-3L	RIGHT LANE	Y	1510 & 1520	N	9AM - 3:30 PM	SEE NOTE
		FOURTH AT NAGHTEN	53'	11'/11'/11'/12'			1W-4L	1W-2L	RIGHT 2 LANES	Y	1510 & 1520	N	9AM - 3:30 PM	SEE NOTE
WORTH AVE.	STELZER RD. AT WORTH AVE. INT	STELZER AT WORTH	57'	12'/11'/11'/12'	N	N	2W-4L	2W-3L	RIGHT LANE	Y	1510 & 1520	N	9AM - 3:30 PM	SEE NOTE

SEE CITY OF COLUMBUS STANDARD DRAWINGS FOR STANDARD MOT LANE CLOSURE DIAGRAMS.

FLAGGING OPERATIONS ARE NOT PERMITTED DURING NIGHT WORK HOURS.

WEEKEND DAY WORK HOURS
7:00 AM TO 7:00 PM SAT/SUN

WEEKEND CLOSURE HOURS
8:00 PM FRI TO 5:00 AM MON

WEEKDAY NIGHT WORK HOURS
8:00 PM TO 5:00 AM

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INNERBELT NOTE

NO WORK SHALL BE PERMITTED BETWEEN THE HOURS OF 5:00 A.M. AND 9:00 P.M., WEEKDAYS*, ON ANY INNERBELT, FREEWAY OR CONNECTOR ROADWAY WITHIN THE INNERBELT RIGHT-OF-WAY. [THE INNERBELT IS DEFINED BY I-670 ON THE NORTH, I-71 ON THE EAST, I-70 ON THE SOUTH, AND SR-315 ON THE WEST.]

WHEN MORE THAN ONE THROUGH LANE IS CLOSED AND/OR IF THE INTERSTATE IS REDUCED TO ONE LANE BETWEEN 9:00 P.M. AND 5:00 A.M., WEEKDAYS* OR ON THE WEEKENDS*** FROM 10:00 P.M. FRIDAY NIGHT UNTIL 5:00 A.M. MONDAY, ALL ENTRANCE RAMPS SHALL BE CLOSED USING THE STANDARDS SET FORTH IN THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES AND THE TYPICAL DETAIL FOR RAMP CLOSURES INCLUDED.

RAMP CLOSURES MAY ALSO BE NECESSARY WHEN ONLY ONE LANE IS CLOSED IN A HIGHLY CONGESTED AREA. AS DIRECTED BY THE ENGINEER.

NO STAGING OF EQUIPMENT OR OCCUPYING SHOULDERS SHALL OCCUR PRIOR TO THE PERMITTED HOURS.

* WEEKDAYS ARE DEFINED AS MONDAY MORNING 5:00 A.M. UNTIL FRIDAY 10:00 P.M.

** AN ADD/DROP LANE BETWEEN INTERCHANGES IS NOT CONSIDERED A THROUGH DRIVING LANE.

***WEEKENDS ARE DEFINED AS FRIDAY NIGHT AT 10:00 P.M. UNTIL MONDAY AT 5:00 A.M.

NOTIFICATION OF TRAFFIC RESTRICTIONS ON FREEWAYS

THROUGHOUT THE DURATION OF THE PROJECT, THE CONTRACTOR SHALL NOTIFY THE ODOT-DISTRICT 6 OFFICE OF COMMUNICATIONS VIA EMAIL (d06.mot@dot.state.oh.us AND d06.pio@dot.state.oh.us) OF ALL TRAFFIC RESTRICTIONS AND UPCOMING MAINTENANCE OF TRAFFIC CHANGES ON THE FREEWAY. THE CONTRACTOR SHALL ENSURE THE WRITTEN NOTIFICATION IS SUBMITTED IN TIME TO MEET THE REQUIREMENTS SET FORTH IN THE TABLE BELOW AND PRIOR TO THE PHYSICAL SETUP OF ANY APPLICABLE SIGNS OR MESSAGE BOARDS.

INFORMATION SHOULD INCLUDE BUT IS NOT LIMITED TO ALL CONSTRUCTION ACTIVITIES THAT IMPACT OR INTERFERE WITH TRAFFIC AND SHALL LIST THE SPECIFIC LOCATION, TYPE OF WORK, ROAD STATUS, DATE AND TIME OF RESTRICTION, DURATION OF RESTRICTION, NUMBER OF LANES MAINTAINED, NUMBER OF LANES CLOSED, MINIMUM VERTICAL CLEARANCE, MINIMUM WIDTH OF DRIVABLE PAVEMENT, DETOUR ROUTES, IF APPLICABLE, AND ANY OTHER INFORMATION REQUESTED BY THE DISTRICT 6 OFFICE OF COMMUNICATIONS.

NOTIFICATION TIME FRAME TABLE

ITEM	DURATION OF CLOSURE	NOTIFICATION DUE TO DISTRICT 6 COMMUNICATION OFFICE
RAMP AND ROAD CLOSURE	> = 2 WEEKS	21 CALENDAR DAYS PRIOR TO CLOSURE
	> 12 HOURS AND < 2 WEEKS	14 CALENDAR DAYS PRIOR TO CLOSURE
	< 12 HOURS	4 BUSINESS DAYS PRIOR TO CLOSURE
LANE CLOSURES/RESTRICTIONS	> = 2 WEEKS	14 CALENDAR DAYS PRIOR TO CLOSURE
	< 2 WEEKS	5 BUSINESS DAYS PRIOR TO CLOSURE

ANY UNFORESEEN CONDITIONS NOT SPECIFIED IN THE PLANS REQUIRING TRAFFIC RESTRICTIONS SHALL ALSO BE REPORTED TO THE DISTRICT 6 OFFICE OF COMMUNICATION USING THE NOTIFICATION TIME FRAME TABLE.

SEND ALL NOTIFICATIONS TO D6.PIO@DOT.STATE.OH.US

LANE CLOSURE HOURS FOR WORK ON FREEWAYS (NON INNERBELT)

LANE, RAMP, AND/OR SHOULDER CLOSURE TIMES FOR ALL NON INNERBELT FREEWAYS AND MULTILANE HIGHWAYS ARE SHOWN IN THE FOLLOWING TABLES. ANY CHANGES TO THESE GUIDELINES SHALL RECEIVE PRIOR APPROVAL FROM THE DISTRICT WORK ZONE TRAFFIC MANAGER. ADDITIONAL PERMITTED LANE CLOSURE INFORMATION CAN BE VIEWED FROM THE DESIGN REFERENCE RESOURCE CENTER (DRRC) ON THE ODOT WEBSITE, WWW.DOT.STATE.OH.US.

SHORT DURATION RAMP CLOSURES

FOR THE PURPOSE OF PERFORMING THE REQUIRED WORK OR WHEN REQUIRED BY THE INTERSTATE ENTRANCE RAMP CLOSURE NOTE, RAMPS MAY BE CLOSED FOR SHORT DURATIONS AND DETOURED IN ACCORDANCE WITH THE RAMP CLOSURE TABLE IF APPROVED BY THE ENGINEER. RAMP CLOSURES ARE SUBJECT TO DISINCENTIVES.

FOR ALL SERVICE RAMP CLOSURES LASTING MORE THAN 12 HOURS BUT LESS THAN 60 HOURS AND/OR,

FOR ALL SYSTEM RAMP CLOSURES LASTING MORE THAN 12 HOURS BUT LESS THAN 24 HOURS

THE CONTRACTOR SHALL PROVIDE THE FOLLOWING:

- A MINIMUM OF TWO PORTABLE CHANGEABLE MESSAGE SIGNS (PCMS) PLACED, AS DIRECTED BY THE ENGINEER, TO WARN DRIVERS OF THE CLOSURE AND TO PROVIDE THE DESIGNATED DETOUR ROUTE.
- POSITIVE GUIDANCE ALONG THE DETOUR ROUTE WITH DETOUR SIGNS (M4-9 SERIES) IN ACCORDANCE WITH THE DETOUR SIGNS NOTE.

FOR ALL RAMP CLOSURES LASTING LESS THAN 12 HOURS, THE CONTRACTOR SHALL PROVIDE THE FOLLOWING:

- A MINIMUM OF TWO PORTABLE CHANGEABLE MESSAGE SIGNS (PCMS) PLACED, AS DIRECTED BY THE ENGINEER, TO WARN DRIVERS OF THE CLOSURE AND TO PROVIDE THE DESIGNATED DETOUR ROUTE.

WHEN CLOSING ENTRANCE RAMPS, CORRESPONDING LEAD-IN LANES AND TURN LANES SHALL BE CLOSED.

IF A DESIGNATED DETOUR ROUTE IS NOT PROVIDED IN THE PLANS, TRAFFIC SHALL BE DIRECTED TO THE NEXT INTERCHANGE, IF AVAILABLE, TO TURN AROUND. IF THE USE OF THE NEXT INTERCHANGE IS NOT POSSIBLE, AN ALTERNATIVE DETOUR ROUTE SHALL BE PROVIDED BY THE ENGINEER.

SERVICE RAMP: INTERCHANGE RAMPS BETWEEN FREEWAYS (OR EXPRESSWAYS) AND NON-FREEWAYS (OR NONEXPRESSWAYS). THESE RAMPS PROVIDE ACCESS (CONNECTIONS) BETWEEN FREEWAYS/EXPRESSWAYS AND OTHER PRINCIPAL/MINOR ARTERIALS, COLLECTORS OR LOCAL ROADS.

SYSTEM RAMP: INTERCHANGE RAMPS (OR CONNECTORS) BETWEEN FREEWAYS (OR EXPRESSWAYS) AND FREEWAYS (OR EXPRESSWAYS).

COORDINATION WITH ADJACENT PROJECTS

THE CONTRACTOR SHALL COORDINATE WORK WITH ODOT AND THE CONTRACTORS ON THE ADJACENT PROJECTS. COORDINATION SHALL BE MADE TO PREVENT CONFLICTING ADVANCE WARNING SIGNS, CONFLICTING DETOUR ROUTES, OVERLAPING/CONFLICTING LANE CLOSURES, AND TO ENSURE THAT A MINIMUM DISTANCE OF 2 MILES BETWEEN ADJACENT LANE CLOSURES IS MAINTAINED. THIS IS NOT AN EXHAUSTIVE LIST OF COORDINATION ITEMS THAT MAY NEED TO BE RESOLVED BETWEEN PROJECTS. THE DEPARTMENT RESERVES THE RIGHT TO DECIDE WHICH PROJECT'S ACTIVITIES TAKE PRECEDENCE. PROJECTS THAT HAVE ACTIVITIES DELAYED DUE TO CONFLICTS WILL CONSIDER THIS AN EXCUSABLE, NON-COMPENSABLE DELAY PER 108.06.B. ON PROJECTS THAT HAVE ACTIVITIES DELAYED DUE TO CONFLICTS WHERE THE CONTRACTOR FAILED TO MEET THE NOTIFICATION REQUIREMENTS, THE DELAYS SHALL NOT BE CONSIDERED EXCUSABLE OR COMPENSABLE.

ATTENDANCE AT DEPARTMENT ORDERED TRAFFIC COORDINATION MEETINGS BETWEEN ADJACENT PROJECTS SHALL BE CONSIDERED MANDATORY FOR EACH PROJECT'S SUPERINTENDENT AND WORKSITE TRAFFIC SUPERVISOR (WTS), AND INCIDENTAL TO THE LUMP SUM MAINTENANCE OF TRAFFIC PAYMENT ITEM.

SPECIAL EVENTS

MEMORIAL GOLF TOURNAMENT – LANE OR SHOULDER CLOSURES ARE NOT PERMITTED DURING THE WEEK OF THE GOLF TOURNAMENT 5AM-10PM DAILY ON THE FOLLOWING ROUTES:
I-270 BETWEEN I-70 (WEST SIDE) AND I-71 (NORTH SIDE)
SR 257 BETWEEN SR 161 AND US 42
SR 745 BETWEEN SR 161 AND US 42
SR 161 BETWEEN US 42 AND I-71
US 33 BETWEEN US 42 AND I-70
SR 750 BETWEEN SR 257 AND US 23

SPECIAL EVENTS

CIRCLEVILLE PUMPKIN SHOW – LANE OR SHOULDER CLOSURES ARE NOT PERMITTED ANY TIME DURING THE WEEK OF THE CIRCLEVILLE PUMPKIN SHOW ON THE FOLLOWING ROUTES:
US 22 IN PICKAWAY COUNTY
US 23 IN PICKAWAY COUNTY
SR 104 IN PICKAWAY COUNTY

TOUR OF THE SCIOTO RIVER VALLEY – LANE OR SHOULDER CLOSURES ARE NOT PERMITTED ANY TIME DURING THE WEEKEND OF THE TOUR OF SCIOTO RIVER VALLEY ON THE FOLLOWING ROUTES:
US 23 BETWEEN EAST FULTON ST AND DERING AVE
SR 188 BETWEEN N COURT ST AND WATER ST
US 22 BETWEEN SCIOTO ST AND MILL RD
SR 104 BETWEEN CANAL RD AND PICKAWAY COUNTY LINE (SOUTH SIDE)

OSU HOME FOOTBALL GAME DAYS – LANE, RAMP OR SHOULDER CLOSURES ARE NOT PERMITTED FROM 3 HOURS PRIOR TO KICKOFF TO 2 HOURS FOLLOWING THE CONCLUSION OF THE GAME ON THE FOLLOWING ROUTES:
US 23 BETWEEN I-270 (NORTH SIDE) AND SR 229 (DELAWARE COUNTY)
US 23 BETWEEN I-270 (SOUTH SIDE) AND SR 361 (PICKAWAY COUNTY)
SR 315 BETWEEN I-70 AND US 23 (DELAWARE COUNTY)

OHIO STATE FAIR – LANE AND SHOULDER CLOSURES ON I-71 BETWEEN I-70 AND SR 161 AND RAMP CLOSURES TO AND FROM 11TH AVENUE AND 17TH AVENUE ARE NOT PERMITTED DURING FAIR HOURS FROM 2 HOURS PRIOR TO GATES OPENING TO 2 HOURS FOLLOWING THE END OF THE LAST EVENT INCLUDING BUT NOT LIMITED TO RELATED CONCERTS.

MAPFRE (CREW) STADIUM EVENTS WITH EXPECTED ATTENDANCE OVER 10,000 – LANE AND SHOULDER CLOSURES ON I-71 BETWEEN I-70 AND SR 161 AND RAMP CLOSURES TO AND FROM 11TH AVENUE, 17TH AVENUE AND HUDSON STREET ARE NOT PERMITTED FROM 2 HOURS PRIOR TO KICKOFF (INBOUND AND OUTBOUND) TO 2 HOURS FOLLOWING THE CONCLUSION OF THE EVENT (OUTBOUND ONLY).

GOOD GUYS NATIONAL – LANE AND SHOULDER CLOSURES ON I-71 BETWEEN I-70 AND SR 161 AND RAMP CLOSURES TO AND FROM 17TH AVENUE ARE NOT PERMITTED DURING SCHEDULED EVEN HOURS INCLUDING 2 HOURS PRIOR TO SCHEDULED EVENT HOURS.

QUARTERHORSE CONGRESS – I-71 RAMP CLOSURES TO AND FROM 17TH AVENUE ARE NOT PERMITTED 5AM-10PM DAILY DURING THE QUARTERHORSE CONGRESS EVENT.

EQUINE AFFAIR – I-71 RAMP CLOSURES TO AND FROM 17TH AVENUE ARE NOT PERMITTED FROM FRIDAY AT 6AM TO SUNDAY AT 6PM DURING THE EQUINE AFFAIR.

FARM SCIENCE REVIEW – LANE OR SHOULDER CLOSURES ARE NOT PERMITTED DURING THE FARM SCIENCE REVIEW 5AM-10PM DAILY ON THE FOLLOWING ROUTES:
I-70 BETWEEN SR 54 (CLARK COUNTY) AND SR 142
SR 38 BETWEEN SR 29 AND US 42
SR 56 BETWEEN HOUSTON PIKE AND US 42
US 40 BETWEEN SR 54 (CLARK COUNTY) AND SR 142
US 42 BETWEEN SR 38 AND SR 29
SR 29 BETWEEN I-70 AND SR 187

DELAWARE COUNTY FAIR – LANE OR SHOULDER CLOSURES ARE NOT PERMITTED DURING THE DELAWARE COUNTY FAIR 6AM-10PM DAILY ON THE FOLLOWING ROUTES:
US 23 BETWEEN SR 750 AND SR 98
US 36 BETWEEN SR 257 AND I-71
SR 37 BETWEEN SR 257 AND I-71
US 42 BETWEEN SR 229 AND SR 745
SR 521 BETWEEN US 36 AND SR 61

ALL OHIO BALLOON FESTIVAL – LANE OR RAMP CLOSURES ARE NOT PERMITTED DURING THE ALL OHIO BALLOON FESTIVAL AT THE UNION COUNTY AIRPORT 12PM-12AM DAILY ON THE FOLLOWING ROUTES:
US 33 BETWEEN US 42 AND SR 739
US 36 BETWEEN MIDDLEBURG-PLAIN CITY RD AND MACKAN RD
SR 4 BETWEEN MIDDLEBURG-PLAIN CITY RD AND COUNTY HOME RD
SR 31 BETWEEN AMRINE WOOD RD AND SR 38
SR 38 BETWEEN SR 161 AND SR 31
SR 245 BETWEEN BUCK RUN RD AND US 33
SR 736 BETWEEN US 42 AND SR 38

IRON MAN 70.3 – LANE OR SHOULDER CLOSURES ARE NOT PERMITTED DURING THE IRON MAN OHIO DURING THE EVENT OR THE WEEK PRECEDING IT ON THE FOLLOWING ROUTES:
US 23 BETWEEN WILLEY RD AND SR 98
SR 98 BETWEEN US 23 AND SR 309
SR 309 BETWEEN SR 98 AND SR 746
SR 746 BETWEEN SR 309 AND US 42
US 42 BETWEEN SR 746 AND WHEELER RD

J:\Jobs\63721 CTSS Phase E\TECHPROD\Sheets\CTSS_PhE_General_Notes.dwg ~ 001_GN-13 ODOT FREEWAY MOT layout ~ last saved by: gburch 09/14/2018 08:41am ~ printed 09/14/2018 08:42am PSLTS: 1 LTS: 1 CAS: 1" = 1"

SUB SUMMARY																				GENERAL NOTES							PARTICIPATION		ITEM	QUANTITY	UNIT	DESCRIPTION	REFERENCE
34	35	36	37	38	39	40	41	42	43	328	329	330	331	332	333	334	335	336	337	22	23	24	25	26	27	29	CMAQ	LOCAL					
ROADWAY																																	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	1		201	1	LS	CLEARING AND GRUBBING	CMSC
																							100	-	-	-	100		202	100	FT	CURB REMOVED	CMSC
131	-	-	-	-	-	-	-	-	-	92	-	-	-	-	40	-	-	-	-	-	-	-	400	-	-	-	683		202	683	SF	WALK REMOVED	CMSC
																							100	-	-	-	100		202	100	FT	CURB AND GUTTER REMOVED	CMSC
70,007	-	-	-	-	6,035	-	-	-	-	80,617	-	-	-	-	16,510	-	-	-	-	-	-	-	4,100	-	-	-	177,269		202	177,269	FT	EXISTING CONDUIT CLEANED, AS PER PLAN	SP-103
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	-	-	-	5		202	5	EACH	REMOVAL, MISC.: REMOVE EXISTING WOOD POLE	SHEET 25, SP-103
1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	202	1	EACH	REMOVAL, MISC.: REMOVE EXISTING OVERHEAD EQUIPMENT	CMSC
-	-	-	-	-	-	-	-	-	-	-	2,078	-	-	-	-	30	-	-	-	-	-	-	1,000	-	-	-	3,108		202	3,108	FT	CONDUIT, MISC.: CONDUIT RESTORATION	SP-103
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	1		207	1	LS	ESC/SWP3, AS PER PLAN	CMSC
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	700	-	-	-	700		254	700	SY	PAVEMENT PLANING, 1-1/2" DEEP	CMSC
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	53	-	-	-	53		407	53	GAL	TACK COAT	CMSC
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	123	-	-	-	123		448	123	CY	1-1/2" ASPHALT CONCRETE SURFACE COURSE, MEDIUM TRAFFIC, PG70-22M	CMSC
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8	-	-	-	8		608	8	EACH	DETECTABLE WARNING, TYPE E	SHEET 22, SCD 2319
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	200	-	-	-	200		608	200	SF	4" CONCRETE WALK	SHEET 22, SCD 2300
151	-	-	-	-	-	-	-	-	-	92	-	-	-	-	40	-	-	-	-	-	-	-	200	-	-	-	483		608	483	SF	8" CONCRETE WALK	SHEET 22, SCD 2301
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	-	-	-	4		608	4	EACH	CURB RAMP	CMSC, SCD 2319
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	50	-	-	-	50	1	609	50	FT	COMBINATION CURB AND GUTTER, TYPE STANDARD	SCD 2010
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	50	-	-	-	50		609	50	FT	COMBINATION CURB AND GUTTER, TYPE SPECIAL 8"	SCD 2020
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	50	-	-	-	50		609	50	FT	CURB, STRAIGHT 18"	SCD 2000
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	100	-	-	200	300		614	300	HR	LAW ENFORCEMENT OFFICER WITH PATROL CAR	SHEET 28
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	40	-	-	200	240		614	240	HR	LAW ENFORCEMENT OFFICER WITHOUT PATROL CAR	SHEET 28
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1		614	1	LS	MAINTAINING TRAFFIC, AS PER PLAN	SHEETS 22 - 28
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	24	-	-	-	-	-	-	24		616	24	TON	CALCIUM CHLORIDE	SHEET 22
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10	-	-	-	-	-	-	10		616	10	M GAL	WATER	SHEET 22
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	18		619	18	MONTH	FIELD OFFICE, TYPE C	CMSC
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	1		624	1	LS	MOBILIZATION	CMSC
-	-	14,847	-	-	-	-	-	-	-	-	-	6,610	-	-	-	-	261	-	-	-	-	-	750	-	-	-	22,468	1	632	22,468	FT	INTERCONNECT CABLE, MISC.: OVERLASH TO EXISTING INTERCONNECT	SP-103
-	-	8,853	-	-	-	-	-	-	-	-	-	10,405	-	-	-	-	-	-	-	-	-	-	2,500	-	-	-	21,758		632	21,758	FT	INTERCONNECT CABLE, MISC.: REMOVE EXISTING OVERHEAD INTERCONNECT	SP-103
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	196	-	-	-	-	-	1,000	-	-	-	1,196		632	1,196	FT	INTERCONNECT CABLE, MISC.: REMOVE EXISTING UNDERGROUND INTERCONNECT	SP-103
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	67,817	500	-	-	-	68,317		632	68,317	FT	INTERCONNECT, MISC.: UNDERGROUND FIBER OPTIC INSTALLATION	SP-103
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10	-	-	-	-	-	-	10		659	10	M GAL	WATER	SHEET 22
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	-	-	-	5		807	5	EACH	VALVE BOX ADJUSTED TO GRADE	CMSC
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	-	-	-	5		807	5	EACH	VALVE BOX ADJUSTED TO GRADE USING RISER	CMSC
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	1		SPEC	1	LS	CRITICAL PATH METHOD PROGRESS SCHEDULE FOR LONG DURATION PROJECTS	CMSC
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	50	-	-	-	50		SPEC	50	EACH	TOWING PARKED CARS	CMSC
INTERCONNECT																																	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	600	-	-	-	600		202	600	FT	CONCRETE BARRIER REMOVED	CMSC
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	20	-	-	-	20		605	20	EACH	4" PIPE UNDERDRAIN	CMSC
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	600	-	-	-	600		622	600	FT	BARRIER, MISC.: MEDIAN BARRIER WALL	SP-103
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	1		625	1	EACH	36" MEDIAN JUNCTION BOX	SHEET 49
22	-	-	-	-	-	-	-	-	-	57	-	-	-	-	311	-	-	-	-	-	-	-	250	-	-	-	640		625	640	FT	CONDUIT, 2", AS PER PLAN	SP-103, SCD 4000
23,590	-	-	-	-	32,724	-	-	-	-	562	-	-	-	-	1,653	-	-	-	-	-	-	-	3,050	-	-	-	61,579		625	61,579	FT	CONDUIT, 3", AS PER PLAN	SP-103, SCD 4000
-	-	-	-	-	-	-	-	-	-	1,970	-	-	-	-	436	-	-	-	-	-	-	-	500	-	-	-	2,906		625	2,906	FT	CONDUIT, 4", AS PER PLAN	CMSC, SCD 4000
13,213	-	-	-	-	-	-	-	-	-	2,938	-	-	-	-	113	-	-	-	-	-	-	-	1,000	-	-	-	17,264		625	17,264	FT	CONDUIT, CONCRETE ENCASED, 2-3", 725.05, AS PER PLAN	SP-103, SCD 4001
1,879	-	-	-	-	-	-	-	-	-	9	-	-	-	-	-	-	-	-	-	-	-	-	100	-	-	-	1,988		625	1,988	FT	CONDUIT, CONCRETE ENCASED, 4-3", 725.05, AS PER PLAN	SP-103, SCD 4001
9,191	-	-	-	-	564	-	-	-	-	3,101	-	-	-	-	703	-	-	-	-	-	-	-	2,000	-	-	-	15,559		625	15,559	FT	CONDUIT, JACKED OR DRILLED, 3", AS PER PLAN	SP-103, SCD 4000
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	200	-	-	-	200		625	200	FT	CONDUIT, JACKED OR DRILLED, 4", AS PER PLAN	SP-103, SCD 4000
-	3,396	-	-	-	-	222	-	-	-	-	1,098	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4,716		625	4,716	FT	CONDUIT, MISC.: 4" CONDUIT, FIBER-GLASS REINFORCED, ATTACHED TO STRUCTURE	SHEETS 47, 48, SP-103
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	600	-	-	-	600	1	625	600	FT	CONDUIT, MISC.: CONDUIT REPAIR	SHEET 50, SP-103
-	-	119	-	-	-	-	38	-	-	-	-	38	-	-	-	-	3	-	-	-	-	-	30	-	-	-	213	15	625	228	EACH	PULL BOX, CONCRETE 32", AS PER PLAN	SP-103, SCD 4022
-	-	4	-	-	-	-	-	-	-	-	-	1	-	-	-	-	9	-	-	-	-	-	2	-	-	-	16		625	16	EACH	PULL BOX, CONCRETE 48", AS PER PLAN	SP-103, SCD 4023
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	20	-	-	-	20		625	20	EACH	PULL BOX, MISC.: PULL BOX REPAIRED	SP-103
-	-	5	-	-	-	-	-	-	-	-	-	12	-	-	-	-	-	-	-	-	-	-	5	-	-	-	22		625	22	EACH	PULL BOX, REMOVED, AS PER PLAN	SP-103
												11															11		625	11	EACH	PULL BOX, MISC.: REFURBISH CONCRETE PULL BOX	SP-103
-	-	26,683	-	-	-	-	16,350	-	-	-	-	4,521	-	-	-	-	2,186	-	-	-	-	-	2,500	-	-	-	52,240		625	52,240	FT	TRENCH, 36" DEEP, AS PER PLAN	SP-103, SCD 4000
-	-	450	-	-	-	-	-	-	-	-	-	30	-	-	-	-	-	-	-	-	-	-	100	-	-	-	580		625	580	FT	TRENCH IN PAVED AREA, AS PER PLAN	SP-103
-	-	3,816	-	-	-	-	288	-	-	-	-	6,684	-	-	-	-	11,892	-	-	-	-	-	2,000	-	-	-	13,360	11,320	632	24,680	EACH	INTERCONNECT CABLE, MISC.: FIBER OPTIC FUSION SPLICE	SP-103
-	-	26	-	-	-	-	-	-	-	-	-	27	-	-	-	-	-	-	-	-	-	-	15	-	-	-	68		632	68	EACH	CONDUIT RISER, 2", 725.04, AS PER PLAN	SP-103, SCD 4050
-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	-	-	-	-	-	-	-	-	-	4	1	632	4	EACH	CONDUIT RISER, 2", 725.051, AS PER PLAN	SP-103
-	-	30	-	-	-	-	-	-	-	-	-	9	-	-	-	-	-	-	-	-	-	-	15	-	-	-	54		632	54	EACH	DOWN GUY	CMSC
-	-	-	77	-	-	-	-	-	-	-	-	-	98	-	-	-	-	20	-	-	-	-	50	-	-	-	245		632	245	EACH	INTERCONNECT CABLE, MISC.: TERMINATION PANEL, 24 FIBER	SP-103

1 REVISION 1.0
11-02-2018

3378-E

CIP: 540007-100012
PID NUMBER: 99733

GENERAL SUMMARY
1 OF 2

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E - FINAL SUBMITTAL

32
915

J:\Jobs\63721 CTSS Phase E\TECHPROD\Sheets\CTSS_PhE_GEN_SUM.dwg ~ VOLUME 1 ~ SHEET 1 OF 2 layout1 ~ last saved by: jbeans 11/05/2018 04:04pm ~ printed 11/06/2018 11:50am PSLTS: 0 LTS: 30 CAS: 1" = 1"

SUB SUMMARY																			GENERAL NOTES							PARTICIPATION		ITEM	QUANTITY	UNIT	DESCRIPTION	REFERENCE
34	35	36	37	38	39	40	41	42	43	328	329	330	331	332	333	334	335	336	337	22	23	24	25	26	27	29	CMAQ	LOCAL					
INTERCONNECT (CONTINUED)																																	
-	-	191,578	-	-	-	-	-	-	-	-	-	154,833	-	-	-	-	21,717	-	-	-	-	-	6,000	-	-	-	230,126	144,000	632	374,126	FT	INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 144 STRAND	SP-103
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	-	-	-	-	-	-	-	1	3		632	3	EACH	INTERCONNECT, MISC.: PRE-TERMINATED FIBER OPTIC DROP CABLE, 24 STRAND, 150FT	SP-103
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	71	-	-	-	-	-	-	-	1	44	27	632	71	EACH	INTERCONNECT, MISC.: PRE-TERMINATED FIBER OPTIC DROP CABLE, 144 STRAND, 150FT	SP-103
-	-	-	-	-	-	-	-	-	-	-	-	-	4	-	-	-	-	2	-	-	-	-	-	-	-	-	6		632	6	EACH	INTERCONNECT, MISC.: PRE-TERMINATED FIBER OPTIC DROP CABLE, 144 STRAND, 475FT	SP-103
-	-	15,056	-	-	-	-	-	-	-	-	-	19,564	-	-	-	-	3,567	-	-	-	-	-	1,000	-	-	-	39,187		632	39,187	FT	INTERCONNECT CABLE, MISC.: FIBER OPTIC DROP CABLE, 24 STRAND	SP-103
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12	-	-	-	-	1	-	-	-	13		632	13	EACH	INTERCONNECT, MISC.: DUAL PANEL ASSEMBLY, 24 FIBER, 1 RU, PRE-TERMINATED	SP-103
-	-	-	-	-	-	-	-	-	-	-	-	1,378	-	-	-	-	11,722	-	-	-	-	-	2,000	-	-	-	15,100		632	15,100	FT	INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 24 STRAND	SP-103
-	-	38,323	-	-	-	-	24,453	-	-	-	-	20,009	-	-	-	-	1,399	-	-	-	-	-	1,000	-	-	-	62,507	22,677	632	86,184	FT	INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 288 STRAND	SP-103
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	500	-	1	-	500		632	500	FT	INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 72 STRAND	SP-103
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	-	-	-	-	2	-	-	-	5		632	5	EACH	INTERCONNECT, MISC.: TERMINATION PANEL, 24 FIBER, 1 RU	SP-103
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	27	-	-	-	-	2	-	-	-	17	12	632	29	EACH	INTERCONNECT, MISC.: TERMINATION PANEL, 144 FIBER, 4 RU	SP-103
-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	23	-	-	-	-	2	-	-	-	22	5	632	27	EACH	INTERCONNECT, MISC.: TERMINATION PANEL, 288 FIBER, 4 RU	SP-103
-	-	-	89,880	-	-	-	-	-	-	-	-	-	59,751	-	-	-	-	6,290	-	-	-	-	2,000	-	-	-	157,921		632	157,921	FT	MESSENGER WIRE, 7 STRAND, 1/4" DIAMETER WITH ACCESSORIES, AS PER PLAN	SP-103
-	-	-	-	48	-	-	-	-	-	-	-	-	-	23	-	-	-	-	-	-	-	-	10	-	-	-	81		632	81	EACH	WOOD POLE, CLASS 5, 35 FT	CMSC
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1		632	1	EACH	INTERCONNECT, MISC.: SPLICE ENCLOSURE, CLAMSHELL, 144 SPLICE	SP-103
-	-	-	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	3		632	3	EACH	INTERCONNECT, MISC.: SPLICE ENCLOSURE, DOME, 144 SPLICE	SP-103
-	-	-	71	-	-	-	-	-	-	-	-	-	76	-	-	-	-	43	-	-	-	-	12	-	-	-	126	76	632	202	EACH	INTERCONNECT, MISC.: SPLICE ENCLOSURE, CLAMSHELL, 288 SPLICE	SP-103
1	-	-	1	-	-	-	-	-	-	-	-	-	6	-	-	-	-	11	-	-	-	-	6	-	-	-	9	15	632	24	EACH	INTERCONNECT, MISC.: SPLICE ENCLOSURE, DOME, 800 SPLICE	SP-103
-	-	-	1,216	-	-	-	-	-	-	-	-	-	777	-	-	-	-	324	-	-	-	-	2,000	-	-	-	4,317		632	4,317	FT	INTERCONNECT, MISC.: CAT 5E CABLE, OUTDOOR RATED	SP-103
-	-	-	6	-	-	-	-	-	-	-	-	-	4	-	-	-	-	2	-	-	-	-	6	-	-	-	18		632	18	EACH	SPREAD SPECTRUM RADIO, AS PER PLAN	SP-103
SIGNAL EQUIPMENT																																	
1	-	-	-	-	-	-	-	-	-	15	-	-	-	-	2	-	-	-	-	-	-	-	2	-	-	-	20		625	20	EACH	BRACKET ARM, 30', AS PER PLAN	SP-103, SCD 4110
-	-	-	-	-	-	-	-	-	-	-	2,433	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2,433		625	2,433	FT	DISTRIBUTION CABLE, NO. 1	CMSC
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3,909	-	-	-	-	-	-	-	-	-	-	3,909		625	3,909	FT	DISTRIBUTION CABLE, NO. 2	CMSC
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	696	-	-	-	-	-	-	-	-	-	-	696		625	696	FT	DISTRIBUTION CABLE, NO. 3	CMSC
-	2,880	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	2,880		625	2,880	FT	DISTRIBUTION CABLE, NO. 3/0	CMSC
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,305	-	-	-	-	-	-	-	-	-	-	1,305		625	1,305	FT	DISTRIBUTION CABLE, NO. 4	CMSC
-	-	-	-	-	-	-	-	-	-	-	171	-	-	-	-	1,690	-	-	-	-	-	-	-	-	-	-	1,861		625	1,861	FT	DISTRIBUTION CABLE, NO. 6	CMSC
-	3	-	-	-	-	-	-	-	-	-	3	-	-	-	-	21	-	-	-	-	-	-	20	-	-	-	47		625	47	EACH	GROUND ROD	CMSC
-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1		625	1	EACH	POWER SERVICE, TYPE A, AS PER PLAN	SHEETS 338 - 346, SP-103
-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1		625	1	EACH	POWER SERVICE, TYPE B, AS PER PLAN	SHEETS 338 - 346, SP-103
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	1		625	1	EACH	POWER SERVICE, TYPE C, AS PER PLAN	SHEETS 338 - 346, SP-103
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	1		625	1	EACH	POWER SERVICE, TYPE D, AS PER PLAN	SHEETS 338 - 346, SP-103
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	1		625	1	EACH	POWER SERVICE, TYPE E, AS PER PLAN	SHEETS 338 - 346, SP-103
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	1		625	1	EACH	POWER SERVICE, TYPE F, AS PER PLAN	SHEETS 338 - 346, SP-103
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	1		625	1	EACH	POWER SERVICE, TYPE G, AS PER PLAN	SHEETS 338 - 346, SP-103
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	1		625	1	EACH	POWER SERVICE, TYPE H, AS PER PLAN	SHEETS 338 - 346, SP-103
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	1		625	1	EACH	POWER SERVICE, TYPE I, AS PER PLAN	SHEETS 338 - 346, SP-103
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	2	-	-	-	3		625	3	EACH	PULL BOX, 18", 725.06, AS PER PLAN	SP-103
-	-	3	-	-	-	-	-	-	-	-	-	5	-	-	-	-	19	-	-	-	-	-	8	-	-	-	35		625	35	EACH	PULL BOX, 18", 725.08, AS PER PLAN	SP-103
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	2		625	2	EACH	PULL BOX, 24", 725.08	CMSC
-	-	-	4,173	-	-	-	-	-	-	-	-	-	4,968	-	-	-	-	-	-	-	-	-	-	-	-	-	9,141		632	9,141	FT	SIGNALIZATION, MISC.: CCTV COMPOSITE CABLE	SP-103
-	-	-	17	-	-	-	-	-	-	-	-	-	18	-	-	-	-	-	-	-	-	-	2	-	-	-	37		632	37	EACH	SIGNALIZATION, MISC.: CCTV IP-CAMERA SYSTEM	SHEET 55, SP-103, SCD 4117
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	-	-		632	-	EACH	STRAIN POLE, DESIGN NO. 6	CMSC
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	1		632	1	EACH	STRAIN POLE FOUNDATION, DESIGN NO. 6	CMSC
-	-	-	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	-	-	-	12		632	12	EACH	SIGNALIZATION, MISC.: CELLULAR ETHERNET COMMUNICATIONS UNIT	SP-103
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	1		633	1	EACH	CABINET, POLE MOUNTED, TYPE TS-2, AS PER PLAN	SP-103
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	1		633	1	EACH	CABINET, GROUND MOUNTED, TYPE TS-2, AS PER PLAN	SP-103, SCD 4162
-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	1	-	-	-	2		633	2	EACH	CABINET, TYPE 334, AS PER PLAN	SP-103, SCD 4162
-	-	-	-	58	-	-	-	-	-	-	-	-	-	46	-	-	-	-	15	-	-	-	8	-	-	-	127		633	127	EACH	CONTROLLER UNIT, TYPE TS2/A2, AS PER PLAN	SP-103
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	-	-	-	4		633	4	EACH	CONTROLLER ITEM, MISC.: ETHERNET EXTENDER	SP-103
NETWORK EQUIPMENT																																	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9	-	-	-	-	-	-	-	-	9		633	9	EACH	CONTROLLER ITEM, MISC.: COMMUNICATIONS NODE	SHEET 64, SP-103
-	-	-	-	138	-	-	-	-	-	-	-	-	-	158	-	-	-	-	104	-	-	-	40	-	-	-	440		633	440	EACH	CONTROLLER ITEM, MISC.: FIBER OPTIC ETHERNET TRANSCEIVER, SHORT RANGE	SP-103
-	-	-	-	1	-	-	-	-	-	-	-	-	-	3	-	-	-	-	-	-	-	-	5	-	-	-	9		633	9	EACH	CONTROLLER ITEM, MISC.: INTERNAL ETHERNET MODULE	SP-103
-	-	-	-	76	-	-	-	-	-	-	-	-	-	82	-	-	-	-	15	-	-	-	20	-	-	-	193		633	193	EACH	CONTROLLER ITEM, MISC.: LAYER 2 ETHERNET SWITCH	SP-103
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11	-	-	-	2	-	-	-	13		633	13	EACH	CONTROLLER ITEM, MISC.: LAYER 3 ETHERNET SWITCH, ENVIRONMENTALLY HARDENED	SP-103
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	1		633	1	LS	SIGNALIZATION, MISC.: SYSTEM INTEGRATION	SP-103

J:\Jobs\63721 CTSS Phase E\TECHPROD\Sheets\CTSS_PhE_GEN_SUM.dwg – VOLUME 1 – SHEET 2 OF 2 layout1 ~ last saved by: jbeans 11/05/2018 04:04pm ~ printed 11/06/2018 11:50am PSLTS: 0 LTS: 30 CAS: 1" = 1"

1 REVISION 1.0
11–02–2018

3378-E

CIP: 540007–100012
PID NUMBER: 99733

GENERAL SUMMARY
2 OF 2

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

LOCATION	SHEET NO.	202 EXISTING CONDUIT CLEANED, AS PER PLAN	202 REMOVAL, MISC.; REMOVE EXISTING AERIAL STANDOFF, POLE MOUNTED	202 REMOVAL, MISC.; REMOVE EXISTING OVERHEAD EQUIPMENT	202 REMOVAL, MISC.; REMOVE EXISTING WOOD POLE	202 CONCRETE BARRIER REMOVED	202 WALK REMOVED	605 4" PIPE UNDERDRAIN	608 8" CONCRETE WALK	609 CURB, STRAIGHT 18"	622 BARRIER, MISC.: MEDIAN BARRIER WALL	625 36" MEDIAN JUNCTION BOX	625 BRACKET ARM, 30', AS PER PLAN	625 CONDUIT, 2", AS PER PLAN	625 CONDUIT, 3", AS PER PLAN	625 CONDUIT, 4", AS PER PLAN	625 CONDUIT, CONCRETE ENCASED, 2-3", 725.05, AS PER PLAN	625 CONDUIT, CONCRETE ENCASED, 4-3", 725.05, AS PER PLAN	625 CONDUIT, JACKED OR DRILLED, 3", AS PER PLAN	625 CONDUIT, JACKED OR DRILLED, 4", AS PER PLAN
		FT	EACH	EACH	EACH	FT	SF	EACH	SF	FT	FT	EACH	EACH	FT	FT	FT	FT	FT	FT	FT
WALKER RD.	74	21	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ALTON DARBY CREEK RD.	81	34	-	-	-	-	-	-	-	-	-	-	-	-	-	-	232	-	-	-
RENNER RD.	89	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RENNER RD.	94	314	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10	-	-
FISHER RD.	103	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2,623	-	2,556	-
HILLIARD ROME RD.	109	2,358	-	-	-	-	-	-	-	-	-	-	-	22	448	-	189	-	577	-
HILLIARD ROME RD.	110	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HILLIARD ROME RD.	117	7,050	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ROBERTS RD.	124	635	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ROBERTS RD.	132	4,964	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10	-	-	-
FISHER RD.	137	136	-	-	-	-	37	-	37	-	-	-	-	-	-	-	535	-	442	-
FIFTH AVE.	144	2,847	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12	-	-	-
DUBLIN RD.	148	17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2,861	-	-	-
RIVERSIDE DR.	153	244	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10	-	-	-
RIVERSIDE DR.	157	1 17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1 851	-	-	-
HAYDEN RUN RD.	164	3,073	-	-	-	-	50	-	50	-	-	-	-	-	-	-	1,373	-	778	-
HAYDEN RUN RD.	173	341	-	-	-	-	64	-	64	-	-	-	-	-	-	-	659	-	-	-
HAYDEN RUN RD.	177	78	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
I-70	182	229	-	-	-	-	-	-	-	-	-	-	-	-	16,584	-	-	-	432	-
FRANK RD.	188	2,753	-	-	-	-	-	-	-	-	-	-	-	-	-	-	173	-	- 1	-
SR-104	191	-	-	-	-	-	-	-	-	-	-	-	-	-	6,420	-	-	-	280	-
REFUGEE RD.	198	5	-	-	-	-	-	-	-	-	-	-	-	-	1 -	-	1,164	-	1,114	-
REFUGEE RD.	204	355	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,869	1,504	-
I-71	213	21,427	-	-	-	-	-	-	-	-	-	-	-	-	138	-	-	-	-	-
HIGH ST.	216	25	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-
HIGH ST.	223	37	-	-	-	-	-	-	-	-	-	-	-	-	-	-	839	-	366	-
HIGH ST.	232	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HAMILTON RD.	238	548	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,607	-	1,142	-
COURTRIGHT RD.	244	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
COURTRIGHT RD.	250	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
WAGGONER RD.	256	4,609	-	-	-	-	-	-	-	-	-	-	-	-	-	-	18	-	-	-
WESTERVILLE RD.	262	947	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HAMILTON RD.	268	4,882	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HAMILTON RD.	278	6,757	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DUBLIN GRANVILLE RD.	286	436	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	-	-	-
NEW ALBANY RD.	290	1,811	-	-	-	-	-	-	-	-	-	-	-	-	-	-	52	-	-	-
NEW ALBANY RD. WEST	296	3,031	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SUB TOTAL		**70,007**	**-**	**1**	**-**	**-**	**151**	**-**	**151**	**-**	**-**	**-**	**1**	**22**	**23,590**	**-**	**13,213**	**1,879**	**9,191**	**-**

1 REVISION 1.0 11-02-2018 **3378-E**

CIP: 540007-100012
PID NUMBER: 99733

SUB SUMMARY
VOLUME 1 – SHEET 1A

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

34
915

J:\Jobs\63721 CTSS Phase E\TECHPROD\Sheets\CTSS_PhE_SUB_SUM_Volume1.dwg – VOLUME 1 – SHEET 1 OF 10 layout ~ last saved by: jbeons 11/06/2018 03:08pm ~ printed 11/06/2018 03:10pm PSLTS: 0 LTS: 30 CAS: 1" = 1'

LOCATION	SHEET NO.	625 CONDUIT, MISC.: 4" CONDUIT, FIBER-GLASS REINFORCED, ATTACHED TO STRUCTURE FT	625 CONDUIT, MISC.: CONDUIT RESTORATION FT	625 DISTRIBUTION CABLE, NO. 1 FT	625 DISTRIBUTION CABLE, NO. 2 FT	625 DISTRIBUTION CABLE, NO. 3 FT	625 DISTRIBUTION CABLE, NO. 3/0 FT	625 DISTRIBUTION CABLE, NO. 4 FT	625 DISTRIBUTION CABLE, NO. 6 FT	625 GROUND ROD EACH	625 POWER SERVICE, TYPE A, AS PER PLAN EACH	625 POWER SERVICE, TYPE B, AS PER PLAN EACH	625 POWER SERVICE, TYPE C, AS PER PLAN EACH	625 POWER SERVICE, TYPE D, AS PER PLAN EACH	625 POWER SERVICE, TYPE E, AS PER PLAN EACH	625 POWER SERVICE, TYPE F, AS PER PLAN EACH	625 POWER SERVICE, TYPE G, AS PER PLAN EACH	625 POWER SERVICE, TYPE H, AS PER PLAN EACH	625 POWER SERVICE, TYPE I, AS PER PLAN EACH	625 PULL BOX, 18", 725.06, AS PER PLAN EACH
WALKER RD.	74	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ALTON DARBY CREEK RD.	81	616	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RENNER RD.	89	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RENNER RD.	94	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FISHER RD.	103	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HILLIARD ROME RD.	109	-	-	-	-	-	2,880	-	-	3	1	-	-	-	-	-	-	-	-	-
HILLIARD ROME RD.	110	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HILLIARD ROME RD.	117	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ROBERTS RD.	124	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ROBERTS RD.	132	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FISHER RD.	137	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FIFTH AVE.	144	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DUBLIN RD.	148	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RIVERSIDE DR.	153	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RIVERSIDE DR.	157	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HAYDEN RUN RD.	164	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HAYDEN RUN RD.	173	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HAYDEN RUN RD.	177	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
I-70	182	1,100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FRANK RD.	188	1,262	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SR-104	191	418	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
REFUGEE RD.	198	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
REFUGEE RD.	204	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
I-71	213	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HIGH ST.	216	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HIGH ST.	223	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HIGH ST.	232	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HAMILTON RD.	238	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
COURTRIGHT RD.	244	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
COURTRIGHT RD.	250	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
WAGGONER RD.	256	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
WESTERVILLE RD.	262	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HAMILTON RD.	268	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HAMILTON RD.	278	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DUBLIN GRANVILLE RD.	286	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NEW ALBANY RD.	290	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NEW ALBANY RD. WEST	296	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SUB TOTAL		**3,396**	**-**	**-**	**-**	**-**	**2,880**	**-**	**-**	**3**	**1**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**

3378-E

CIP: 540007-100012
PID NUMBER: 99733

SUB SUMMARY
VOLUME 1 – SHEET 1B

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

35
915

J:\Jobs\63721 ctss phase e\TECHPROD\Sheets\CTSS_PhE_SUB_SUM_Volume1.dwg – VOLUME 1 – SHEET 2 OF 10 layout – last saved by: gburch 10/31/2018 10:13am – printed 10/31/2018 10:41am PSITS: 0 LTS: 30 CAS: 1" = 1'

LOCATION	SHEET NO.	625 PULL BOX, 18", 725.08, AS PER PLAN EACH	625 PULL BOX, 24", 725.08 EACH	625 PULL BOX, CONCRETE 32", AS PER PLAN EACH	625 PULL BOX, CONCRETE 48", AS PER PLAN EACH	625 PULL BOX, MISC.: REFURBISH CONCRETE PULL BOX EACH	625 PULL BOX, REMOVED, AS PER PLAN EACH	625 TRENCH, 36" DEEP, AS PER PLAN FT	625 TRENCH IN PAVED AREA, AS PER PLAN FT	632 CONDUIT RISER, 2", 725.04, AS PER PLAN EACH	632 CONDUIT RISER, 2", 725.051, AS PER PLAN EACH	632 DOWN GUY EACH	632 INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 144 STRAND FT	632 INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 24 STRAND FT	632 INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 288 STRAND FT	632 INTERCONNECT CABLE, MISC.: FIBER OPTIC DROP CABLE, 24 STRAND FT	632 INTERCONNECT CABLE, MISC.: FIBER OPTIC FUSION SPLICE EACH	632 INTERCONNECT CABLE, MISC.: OVERLASH TO EXISTING INTERCONNECT FT	632 INTERCONNECT CABLE, MISC.: REMOVE EXISTING OVERHEAD INTERCONNECT FT	632 INTERCONNECT CABLE, MISC.: REMOVE EXISTING UNDERGROUND INTERCONNECT FT
WALKER RD.	74	-	-	-	-	-	-	-	-	-	-	6	9,944	-	-	423	12	-	-	-
ALTON DARBY CREEK RD.	81	-	-	4	-	-	-	232	-	2	-	4	7,418	-	-	885	264	-	-	-
RENNER RD.	89	-	-	-	-	-	-	-	-	-	-	4	7,831	-	-	444	48	-	-	-
RENNER RD.	94	-	-	-	1	-	-	10	-	-	-	-	4,495	⚠1 -	-	801 ⚠1	348	-	-	-
FISHER RD.	103	-	-	18	-	-	-	2,623	-	5	-	5	7,650	-	-	-	144	-	-	-
HILLIARD ROME RD.	109	3	-	2	-	-	-	659	-	-	1	-	3,061	-	-	442	48	-	-	-
HILLIARD ROME RD.	110	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HILLIARD ROME RD.	117	-	-	-	-	-	-	-	-	-	-	-	7,935	-	-	740	120	-	-	-
ROBERTS RD.	124	-	-	-	-	-	-	-	-	-	-	-	7,987	-	-	602	72	-	6,244	-
ROBERTS RD.	132	-	-	-	-	-	-	10	-	1	-	1	8,624	-	-	529	96	-	-	-
FISHER RD.	137	-	-	4	-	-	-	535	-	2	-	-	4,658	-	-	180	180	1,316	-	-
FIFTH AVE.	144	-	-	-	-	-	-	12	-	1	-	-	8,066	-	-	346	48	4,177	-	-
DUBLIN RD.	148	-	-	10	-	-	-	2,861	-	1	-	-	3,268	-	-	462	36	-	-	-
RIVERSIDE DR.	153	-	-	-	-	-	-	10	-	-	-	-	3,763	-	-	159	168	-	-	-
RIVERSIDE DR.	157	-	-	4	-	-	-	⚠1 851	-	1	-	1	⚠1 2,580	-	-	⚠1 157	12	-	-	-
HAYDEN RUN RD.	164	-	-	6	-	-	-	1,373	-	1	-	1	7,551	-	-	689	60	-	-	-
HAYDEN RUN RD.	173	-	-	3	-	-	-	209	450	2	-	1	10,934	-	-	188	24	-	-	-
HAYDEN RUN RD.	177	-	-	-	-	-	-	-	-	-	-	-	⚠1 -	-	-	-	-	-	-	-
I-70	182	-	-	23	2	-	-	8,292	-	-	-	-	-	-	10,087	-	-	-	-	-
FRANK RD.	188	-	-	5	-	-	3	173	-	-	-	-	3,241	-	2,133	627	72	-	-	-
SR-104	191	-	-	14	-	-	-	3,210 ⚠1	-	-	-	-	-	-	3,959	-	-	-	-	-
REFUGEE RD.	198	-	-	10	1	-	-	1,164	-	2	-	1	7,752	-	⚠1 -	386	36	-	-	-
REFUGEE RD.	204	-	-	8	-	-	1	1,869	-	1	-	-	6,714	-	-	682	252	-	2,609	-
I-71	213	-	-	-	-	-	-	69	-	-	-	-	-	-	22,144	-	-	-	-	-
HIGH ST.	216	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HIGH ST.	223	-	-	5	-	-	-	839	-	1	-	1	6,815	-	-	981	96	-	-	-
HIGH ST.	232	-	-	-	-	-	-	-	-	2	-	-	10,251	-	-	640	216	-	-	-
HAMILTON RD.	238	-	-	2	-	-	-	1,607	-	-	-	-	3,148	-	-	416	48	92	-	-
COURTRIGHT RD.	244	-	-	-	-	-	-	-	-	1	-	2	6,053	-	-	357	48	-	-	-
COURTRIGHT RD.	250	-	-	-	-	-	-	-	-	1	-	-	7,171	-	-	691	252	5,427	-	-
WAGGONER RD.	256	-	-	-	-	-	-	18	-	1	-	1	5,626	-	-	324	216	-	-	-
WESTERVILLE RD.	262	-	-	-	-	-	-	-	-	-	-	-	5,149	-	-	327	12	1,086	-	-
HAMILTON RD.	268	-	-	-	-	-	-	-	-	-	-	-	5,455	-	-	755	108	-	-	-
HAMILTON RD.	278	-	-	-	-	-	-	-	-	-	-	-	7,831	-	-	149	312	-	-	-
DUBLIN GRANVILLE RD.	286	-	-	-	-	-	-	5	-	1	-	2	5,149	-	-	653	180	2,749	-	-
NEW ALBANY RD.	290	-	-	1	-	-	1	52	-	-	-	-	1,966	-	-	145	12	-	-	-
NEW ALBANY RD. WEST	296	-	-	-	-	-	-	-	-	-	-	-	3,490	-	-	876	276	-	-	-
SUB TOTAL		**3**	**-**	**119**	**4**	**-**	**5**	**26,683**	**450**	**26**	**1**	**30**	**191,576**	**-**	**38,323**	**15,056**	**3,816**	**14,847**	**8,853**	**-**

⚠1 REVISION 1.0 11-02-2018 **3378-E**

CIP: 540007-100012
PID NUMBER: 99733

SUB SUMMARY
VOLUME 1 – SHEET 1C

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

J:\Jobs\63721 CTSS Phase E\TECHPROD\Sheets\CTSS_PhE_SUB_SUM_Volume1.dwg – VOLUME 1 – SHEET 3 OF 10 layout ~ last saved by: jbeans 11/06/2018 03:08pm ~ printed 11/06/2018 03:10pm PSLTS: 0 LTS: 30 CAS: 1" = 1'

LOCATION	SHEET NO.	632 INTERCONNECT CABLE, MISC.: TERMINATION PANEL, 24 FIBER EACH	632 INTERCONNECT, MISC.: CAT 5E CABLE, OUTDOOR RATED FT	632 INTERCONNECT, MISC.: DUAL PANEL ASSEMBLY, 24 FIBER, 1 RU, PRE-TERMINATED EACH	632 INTERCONNECT, MISC.: PRE-TERMINATED FIBER OPTIC DROP CABLE, 144 STRAND, 150FT EACH	632 INTERCONNECT, MISC.: PRE-TERMINATED FIBER OPTIC DROP CABLE, 144 STRAND, 475FT EACH	632 INTERCONNECT, MISC.: PRE-TERMINATED FIBER OPTIC DROP CABLE, 24 STRAND, 150FT EACH	632 INTERCONNECT, MISC.: PRE-TERMINATED FIBER OPTIC DROP CABLE, 24 STRAND, 475FT EACH	632 INTERCONNECT, MISC.: SPLICE ENCLOSURE, CLAMSHELL, 144 SPLICE EACH	632 INTERCONNECT, MISC.: SPLICE ENCLOSURE, CLAMSHELL, 288 SPLICE EACH	632 INTERCONNECT, MISC.: SPLICE ENCLOSURE, DOME, 144 SPLICE EACH	632 INTERCONNECT, MISC.: SPLICE ENCLOSURE, DOME, 800 SPLICE EACH	632 INTERCONNECT, MISC.: TERMINATION PANEL, 144 FIBER, 4 RU EACH	632 INTERCONNECT, MISC.: TERMINATION PANEL, 24 FIBER, 1 RU EACH	632 INTERCONNECT, MISC.: TERMINATION PANEL, 288 FIBER, 4 RU EACH	632 MESSENGER WIRE, 7 STRAND, 1/4" DIAMETER WITH ACCESSORIES, AS PER PLAN FT	632 SIGNALIZATION, MISC.: CCTV COMPOSITE CABLE FT	632 SIGNALIZATION, MISC.: CCTV IP-CAMERA SYSTEM EACH	632 SIGNALIZATION, MISC.: CELLULAR ETHERNET COMMUNICATIONS UNIT EACH	632 SPREAD SPECTRUM RADIO, AS PER PLAN EACH
WALKER RD.	74	1	-	-	-	-	-	-	-	1	-	-	-	-	-	9,051	-	-	-	-
ALTON DARBY CREEK RD.	81	4	-	-	-	-	-	-	-	3	-	-	-	-	-	5,874	298	1	-	-
RENNER RD.	89	2	115	-	-	-	-	-	-	2	-	-	-	-	-	7,972	-	-	-	1
RENNER RD.	94	4	208	-	-	-	-	-	-	2	-	1	-	-	- ⚠1	3,797	416	1	-	1
FISHER RD.	103	-	- ⚠1	-	-	-	-	-	-	-	-	-	-	-	-	2,584	-	-	-	- ⚠1
HILLIARD ROME RD.	109	2	-	-	-	-	-	-	-	2	-	-	-	-	-	1,006	-	-	3	-
HILLIARD ROME RD.	110	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HILLIARD ROME RD.	117	5	-	-	-	-	-	-	-	5	-	-	-	-	-	-	-	-	-	-
ROBERTS RD.	124	3	-	-	-	-	-	-	-	3	-	-	-	-	-	6,334	89	1	-	-
ROBERTS RD.	132	4	-	-	-	-	-	-	-	4	-	-	-	-	-	2,454	-	-	-	-
FISHER RD.	137	1	-	-	-	-	-	-	-	1	-	-	-	-	-	1,895	-	-	-	-
FIFTH AVE.	144	2	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-
DUBLIN RD.	148	2	-	-	-	-	-	-	-	2	-	-	-	-	-	87	302	1	-	-
RIVERSIDE DR.	153	2	-	-	-	-	-	-	-	1	-	-	-	-	-	2,963	69	1	-	-
RIVERSIDE DR.	157	1	-	-	-	-	-	-	-	1	-	-	-	-	-	1,356	⚠1 368	1	-	-
HAYDEN RUN RD.	164	3	-	-	-	-	-	-	-	3	-	-	-	-	-	2,088	-	-	-	-
HAYDEN RUN RD.	173	1	-	-	-	-	-	-	-	1	-	-	-	-	-	8,547	91	1	-	-
HAYDEN RUN RD.	177	-	231	-	-	-	-	-	-	-	-	-	-	-	-	⚠1 335	985	3	-	2
I-70	182	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FRANK RD.	188	4	-	-	-	-	-	-	-	4	-	-	-	-	-	109	369	1	1	-
SR-104	191	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
REFUGEE RD.	198	2	-	-	-	-	-	-	-	2	-	-	-	-	-	5,022	316	1	-	-
REFUGEE RD.	204	3	-	-	-	-	-	-	-	2	-	-	-	-	-	3,439	-	-	-	-
I-71	213	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HIGH ST.	216	-	304	-	-	-	-	-	-	-	-	-	-	-	-	162	148	1	-	2
HIGH ST.	223	4	-	-	-	-	-	-	-	4	-	-	-	-	-	5,220	330	1	-	-
HIGH ST.	232	3	-	-	-	-	-	-	-	3	-	-	-	-	-	9,086	90	1	-	-
HAMILTON RD.	238	2	228	-	-	-	-	-	-	2	-	-	-	-	-	87	-	-	1	-
COURTRIGHT RD.	244	2	-	-	-	-	-	-	-	2	-	-	-	-	-	5,170	-	-	-	-
COURTRIGHT RD.	250	3	-	-	-	-	-	-	-	2	-	-	-	-	-	634	-	-	-	-
WAGGONER RD.	256	2	-	-	-	-	-	-	-	2	-	-	-	-	-	333	-	-	-	-
WESTERVILLE RD.	262	1	-	-	-	-	-	-	-	1	-	-	-	-	-	2,913	-	-	-	-
HAMILTON RD.	268	5	-	-	-	-	-	-	-	5	-	-	-	-	-	-	111	1	-	-
HAMILTON RD.	278	1	-	-	-	-	-	-	-	3	-	-	-	-	-	-	191	1	-	-
DUBLIN GRANVILLE RD.	286	2	-	-	-	-	-	-	-	2	-	-	-	-	-	1,362	-	-	-	-
NEW ALBANY RD.	290	1	130	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1	-
NEW ALBANY RD. WEST	296	5	-	-	-	-	-	-	-	4	-	-	-	-	-	-	-	-	-	-
SUB TOTAL		**77**	**1,216**	**-**	**-**	**-**	**-**	**-**	**-**	**71**	**1**	**1**	**-**	**-**	**-**	**89,880**	**4,173**	**17**	**6**	**6**

⚠1 REVISION 1.0 11-02-2018 **3378-E**

CIP: 540007-100012
PID NUMBER: 99733

SUB SUMMARY
VOLUME 1 – SHEET 1D

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

37
915

J:\Jobs\63721 CTSS Phase E\TECHPROD\Sheets\CTSS_PhE_SUB_SUM_Volume1.dwg ~ VOLUME 1 – SHEET 4 OF 10 layout ~ last saved by: jbeans 11/06/2018 03:08pm ~ printed 11/06/2018 03:10pm PSLTS: 0 LTS: 30 CAS: 1" = 1'

LOCATION	SHEET NO.	632	632	632	633	633	633	633	633	633	633	633	633						
		STRAIN POLE, DESIGN NO. 6	STRAIN POLE FOUNDATION, DESIGN NO. 6	WOOD POLE, CLASS 5, 35 FT	CABINET, GROUND MOUNTED, TYPE TS-2, AS PER PLAN	CABINET, POLE MOUNTED, TYPE TS-2, AS PER PLAN	CABINET, TYPE 334, AS PER PLAN	CONTROLLER ITEM, MISC.: COMMUNICATIONS NODE	CONTROLLER ITEM, MISC.: ETHERNET EXTENDER	CONTROLLER ITEM, MISC.: FIBER OPTIC ETHERNET TRANSCEIVER, SHORT RANGE	CONTROLLER ITEM, MISC.: INTERNAL ETHERNET MODULE	CONTROLLER ITEM, MISC.: LAYER 2 ETHERNET SWITCH	CONTROLLER ITEM, MISC.: LAYER 3 ETHERNET SWITCH, ENVIRONMENTALLY HARDENED	CONTROLLER UNIT, TYPE TS2/A2, AS PER PLAN						
		EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH						
WALKER RD.	74	-	-	7	-	-	-	-	-	2	1	1	-	-						
ALTON DARBY CREEK RD.	81	-	-	-	-	-	-	-	-	6	-	3	-	3						
RENNER RD.	89	-	-	4	-	-	-	-	-	4	-	2	-	2						
RENNER RD.	94	-	-	8	-	-	-	-	-	6	-	3	-	2						
FISHER RD.	103	-	-	8	-	-	-	-	-	-	-	-	-	-						
HILLIARD ROME RD.	109	-	-	-	-	-	-	-	-	4	-	-	-	-						
HILLIARD ROME RD.	110	-	-	-	-	-	-	-	-	-	-	5	-	1						
HILLIARD ROME RD.	117	-	-	-	-	-	-	-	-	10	-	5	-	-						
ROBERTS RD.	124	-	-	-	-	-	-	-	-	6	-	3	-	3						
ROBERTS RD.	132	-	-	1	-	-	-	-	-	8	-	4	-	1						
FISHER RD.	137	-	-	-	-	-	-	-	-	-	-	-	-	-						
FIFTH AVE.	144	-	-	-	-	-	-	-	-	4	-	2	-	1						
DUBLIN RD.	148	-	-	-	-	-	-	-	-	4	-	2	-	2						
RIVERSIDE DR.	153	-	-	-	-	-	-	-	-	2	-	1	-	-						
RIVERSIDE DR.	157	-	-	-	-	-	-	-	-	2	-	1	-	1						
HAYDEN RUN RD.	164	-	-	-	-	-	-	-	-	6	-	3	-	3						
HAYDEN RUN RD.	173	-	-	10	-	-	-	-	-	2	-	1	-	1						
HAYDEN RUN RD.	177	-	-	-	-	-	-	-	-	-	-	1	-	-						
I-70	182	-	-	-	-	-	-	-	-	-	-	-	-	-						
FRANK RD.	188	-	-	-	-	-	-	-	-	8	-	5	-	5						
SR-104	191	-	-	-	-	-	-	-	-	-	-	-	-	-						
REFUGEE RD.	198	-	-	4	-	-	-	-	-	4	-	2	-	2						
REFUGEE RD.	204	-	-	-	-	-	-	-	-	4	-	2	-	2						
I-71	213	-	-	-	-	-	-	-	-	-	-	-	-	-						
HIGH ST.	216	-	-	-	-	-	-	-	-	-	-	1	-	-						
HIGH ST.	223	-	-	2	-	-	-	-	-	8	-	4	-	4						
HIGH ST.	232	-	-	-	-	-	-	-	-	6	-	3	-	3						
HAMILTON RD.	238	-	-	-	-	-	-	-	-	4	-	3	-	3						
COURTRIGHT RD.	244	-	-	-	-	-	-	-	-	4	-	2	-	2						
COURTRIGHT RD.	250	-	-	-	-	-	-	-	-	4	-	2	-	2						
WAGGONER RD.	256	-	-	1	-	-	-	-	-	2	-	-	-	-						
WESTERVILLE RD.	262	-	-	-	-	-	-	-	-	2	-	1	-	1						
HAMILTON RD.	268	-	-	-	-	-	-	-	-	10	-	4	-	4						
HAMILTON RD.	278	-	-	-	-	-	-	-	-	2	-	1	-	1						
DUBLIN GRANVILLE RD.	286	-	-	3	-	-	-	-	-	4	-	2	-	2						
NEW ALBANY RD.	290	-	-	-	-	-	-	-	-	2	-	3	-	3						
NEW ALBANY RD. WEST	296	-	-	-	-	-	-	-	-	8	-	4	-	4						
SUB TOTAL		**-**	**-**	**48**	**-**	**-**	**-**	**-**	**-**	**138**	**1**	**76**	**-**	**58**	**-**	**-**	**-**	**-**	**-**	**-**

3378-E

CIP: 540007-100012
PID NUMBER: 99733

SUB SUMMARY
VOLUME 1 – SHEET 1E

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

38
915

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LOCATION	SHEET NO.	202	202	202	202	202	202	605	608	609	622	625	625	625	625	625	625	625	625	625
		EXISTING CONDUIT CLEANED, AS PER PLAN	REMOVAL, MISC.: REMOVE EXISTING AERIAL STANDOFF, POLE MOUNTED	REMOVAL, MISC.: REMOVE EXISTING OVERHEAD EQUIPMENT	REMOVAL, MISC.: REMOVE EXISTING WOOD POLE	CONCRETE BARRIER REMOVED	WALK REMOVED	4" PIPE UNDERDRAIN	8" CONCRETE WALK	CURB, STRAIGHT 18"	BARRIER, MISC.: MEDIAN BARRIER WALL	36" MEDIAN JUNCTION BOX	BRACKET ARM, 30', AS PER PLAN	CONDUIT, 2", AS PER PLAN	CONDUIT, 3", AS PER PLAN	CONDUIT, 4", AS PER PLAN	CONDUIT, CONCRETE ENCASED, 2-3", 725.05, AS PER PLAN	CONDUIT, CONCRETE ENCASED, 4-3", 725.05, AS PER PLAN	CONDUIT, JACKED OR DRILLED, 3", AS PER PLAN	CONDUIT, JACKED OR DRILLED, 4", AS PER PLAN
		FT	EACH	EACH	EACH	FT	SF	EACH	SF	FT	FT	EACH	EACH	FT	FT	FT	FT	FT	FT	FT
SR-161	302	6,035	-	-	-	-	-	-	-	-	-	-	-	-	11,048	-	-	-	-	-
SR-161	307	-	-	-	-	-	-	-	-	-	-	-	-	-	21,676	-	-	-	564	-
SUB TOTAL		**6,035**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**32,724**	**-**	**-**	**-**	**564**	**-**

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CIP: 540007–100012
PID NUMBER: 99733

SUB SUMMARY
VOLUME 1 – SHEET 2A

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

LOCATION	SHEET NO.	625 CONDUIT, MISC.: 4" CONDUIT, FIBER-GLASS REINFORCED, ATTACHED TO STRUCTURE FT	625 CONDUIT, MISC.: CONDUIT RESTORATION FT	625 DISTRIBUTION CABLE, NO. 1 FT	625 DISTRIBUTION CABLE, NO. 2 FT	625 DISTRIBUTION CABLE, NO. 3 FT	625 DISTRIBUTION CABLE, NO. 3/0 FT	625 DISTRIBUTION CABLE, NO. 4 FT	625 DISTRIBUTION CABLE, NO. 6 FT	625 GROUND ROD EACH	625 POWER SERVICE, TYPE A, AS PER PLAN EACH	625 POWER SERVICE, TYPE B, AS PER PLAN EACH	625 POWER SERVICE, TYPE C, AS PER PLAN EACH	625 POWER SERVICE, TYPE D, AS PER PLAN EACH	625 POWER SERVICE, TYPE E, AS PER PLAN EACH	625 POWER SERVICE, TYPE F, AS PER PLAN EACH	625 POWER SERVICE, TYPE G, AS PER PLAN EACH	625 POWER SERVICE, TYPE H, AS PER PLAN EACH	625 POWER SERVICE, TYPE I, AS PER PLAN EACH	625 PULL BOX, 18", 725.06, AS PER PLAN EACH
SR-161	302	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SR-161	307	222	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SUB TOTAL		**222**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**

3378-E

CIP: 540007-100012
PID NUMBER: 99733

SUB SUMMARY
VOLUME 1 – SHEET 2B

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

40
915

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LOCATION	SHEET NO.	625	625	625	625	625	625	625	625	632	632	632	632	632	632	632	632	632	632
		PULL BOX, 18", 725.08, AS PER PLAN	PULL BOX, 24", 725.08	PULL BOX, CONCRETE 32", AS PER PLAN	PULL BOX, CONCRETE 48", AS PER PLAN	PULL BOX, MISC.: REFURBISH CONCRETE PULL BOX	PULL BOX, REMOVED, AS PER PLAN	TRENCH, 36" DEEP, AS PER PLAN	TRENCH IN PAVED AREA, AS PER PLAN	CONDUIT RISER, 2", 725.04, AS PER PLAN	CONDUIT RISER, 2", 725.051, AS PER PLAN	DOWN GUY	INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 144 STRAND	INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 24 STRAND	INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 288 STRAND	INTERCONNECT CABLE, MISC.: FIBER OPTIC DROP CABLE, 24 STRAND	INTERCONNECT CABLE, MISC.: FIBER OPTIC FUSION SPLICE	INTERCONNECT CABLE, MISC.: OVERLASH TO EXISTING INTERCONNECT	INTERCONNECT CABLE, MISC.: REMOVE EXISTING OVERHEAD INTERCONNECT	INTERCONNECT CABLE, MISC.: REMOVE EXISTING UNDERGROUND INTERCONNECT
		EACH	EACH	EACH	EACH	EACH	EACH	FT	FT	EACH	EACH	EACH	FT	FT	FT	FT	EACH	FT	FT	FT
SR-161	302	-	-	12	-	-	-	5,524	-	-	-	-	-	-	12,134	-	288	-	-	-
SR-161	307	-	-	26	-	-	-	10,826	-	-	-	-	-	-	12,319	-	-	-	-	-
SUB TOTAL		-	-	38	-	-	-	16,350	-	-	-	-	-	-	24,453	-	288	-	-	-

3378-E

CIP: 540007-100012
PID NUMBER: 99733

SUB SUMMARY
VOLUME 1 – SHEET 2C

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

41
915

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LOCATION				SUB TOTAL
SHEET NO.				
SR-161	SR-161			
302	307			
-	-	EACH	INTERCONNECT CABLE, MISC.: TERMINATION PANEL, 24 FIBER	632
-	-	FT	INTERCONNECT, MISC.: CAT 5E CABLE, OUTDOOR RATED	632
-	-	EACH	INTERCONNECT, MISC.: DUAL PANEL ASSEMBLY, 24 FIBER, 1 RU, PRE-TERMINATED	632
-	-	EACH	INTERCONNECT, MISC.: PRE-TERMINATED FIBER OPTIC DROP CABLE, 144 STRAND, 150FT	632
-	-	EACH	INTERCONNECT, MISC.: PRE-TERMINATED FIBER OPTIC DROP CABLE, 144 STRAND, 475FT	632
-	-	EACH	INTERCONNECT, MISC.: PRE-TERMINATED FIBER OPTIC DROP CABLE, 24 STRAND, 150FT	632
-	-	EACH	INTERCONNECT, MISC.: PRE-TERMINATED FIBER OPTIC DROP CABLE, 24 STRAND, 475FT	632
-	-	EACH	INTERCONNECT, MISC.: SPLICE ENCLOSURE, CLAMSHELL, 144 SPLICE	632
-	-	EACH	INTERCONNECT, MISC.: SPLICE ENCLOSURE, CLAMSHELL, 288 SPLICE	632
1	-	EACH	INTERCONNECT, MISC.: SPLICE ENCLOSURE, DOME, 144 SPLICE	632
-	-	EACH	INTERCONNECT, MISC.: SPLICE ENCLOSURE, DOME, 800 SPLICE	632
-	-	EACH	INTERCONNECT, MISC.: TERMINATION PANEL, 144 FIBER, 4 RU	632
-	-	EACH	INTERCONNECT, MISC.: TERMINATION PANEL, 24 FIBER, 1 RU	632
-	-	EACH	INTERCONNECT, MISC.: TERMINATION PANEL, 288 FIBER, 4 RU	632
-	-	FT	MESSENGER WIRE, 7 STRAND, 1/4" DIAMETER WITH ACCESSORIES, AS PER PLAN	632
-	-	FT	SIGNALIZATION, MISC.: CCTV COMPOSITE CABLE	632
-	-	EACH	SIGNALIZATION, MISC.: CCTV IP-CAMERA SYSTEM	632
-	-	EACH	SIGNALIZATION, MISC.: CELLULAR ETHERNET COMMUNICATIONS UNIT	632
-	-	EACH	SPREAD SPECTRUM RADIO, AS PER PLAN	632

LOCATION	SHEET NO.	632	632	632	633	633	633	633	633	633	633	633	633	633							
		STRAIN POLE, DESIGN NO. 6	STRAIN POLE FOUNDATION, DESIGN NO. 6	WOOD POLE, CLASS 5, 35 FT	CABINET, GROUND MOUNTED, TYPE TS-2, AS PER PLAN	CABINET, POLE MOUNTED, TYPE TS-2, AS PER PLAN	CABINET, TYPE 334, AS PER PLAN	CONTROLLER ITEM, MISC.: COMMUNICATIONS NODE	CONTROLLER ITEM, MISC.: ETHERNET EXTENDER	CONTROLLER ITEM, MISC.: FIBER OPTIC ETHERNET TRANSCEIVER, SHORT RANGE	CONTROLLER ITEM, MISC.: INTERNAL ETHERNET MODULE	CONTROLLER ITEM, MISC.: LAYER 2 ETHERNET SWITCH	CONTROLLER ITEM, MISC.: LAYER 3 ETHERNET SWITCH, ENVIRONMENTALLY HARDENED	CONTROLLER UNIT, TYPE TS2/A2, AS PER PLAN						
		EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH							
SR-161	302	-	-	-	-	-	-	-	-	-	-	-	-	-							
SR-161	307	-	-	-	-	-	-	-	-	-	-	-	-	-							
SUB TOTAL		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

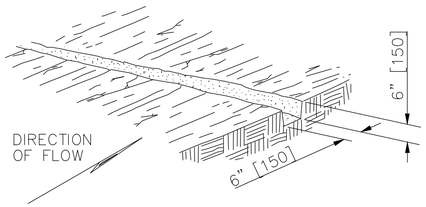
CIP: 540007-100012
PID NUMBER: 99733

SUB SUMMARY
VOLUME 1 – SHEET 2E

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

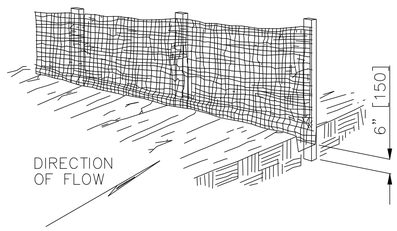
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PERIMETER FILTER FABRIC FENCE



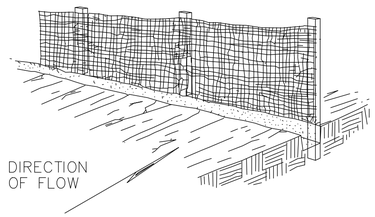
EXCAVATE A 6"X6" [150X150] TRENCH
ALONG THE PROPOSED FENCE LINE.

STEP 1



PLACE FABRIC AND SUPPORT STAKES
AND EXTEND FABRIC INTO THE TRENCH.

STEP 2



BACKFILL AND COMPACT THE EXCAVATED SOIL.

STEP 3

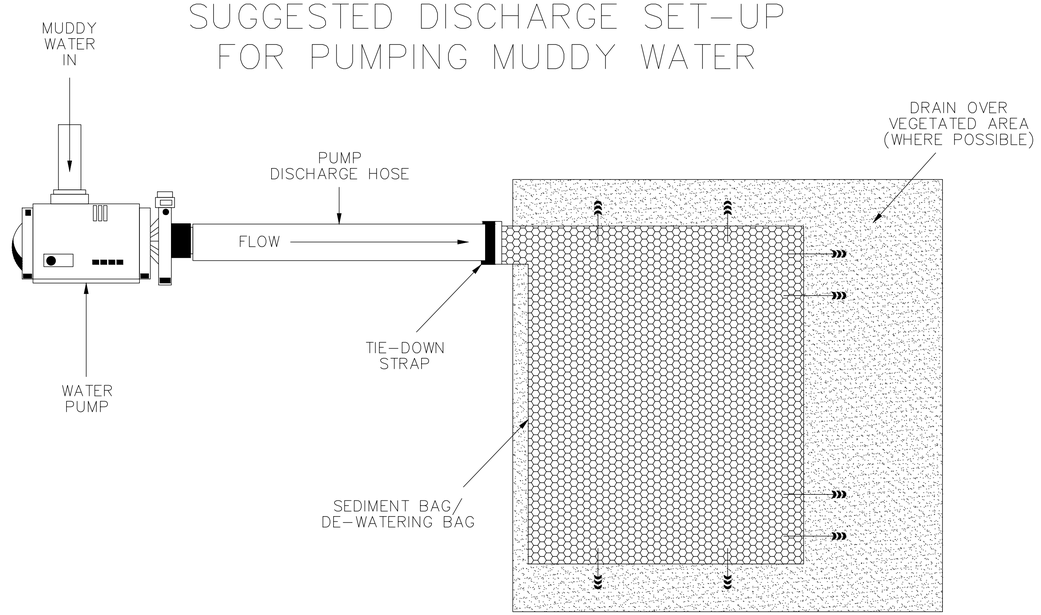
NOTES

MATERIALS:
FURNISH 30" [0.8 M] WIDE FILTER FABRIC WITH SOUND WOOD SUPPORTS WITH MAXIMUM ON-CENTER SPACING OF 10' [3.0 M]. USE FILTER FABRIC CONFORMING TO 712.09, TYPE C.

CONSTRUCTION:
TRENCH THE FILTER FABRIC FENCE AS DETAILED. THE CONTRACTOR MAY ELECT TO TRENCH THE FENCE DETAILED ON STEPS 1 THROUGH 3 IN ONE PLOWING OPERATION.

PAYMENT:
ALL LABOR AND MATERIALS REQUIRED FOR THE INSTALLATION OF PERIMETER FILTERS SHALL BE CONSIDERED INCIDENTAL TO THE COST OF ITEM 207: ESC/SWP3 PAY ITEMS – AS PER PLAN.

SUGGESTED DISCHARGE SET-UP FOR PUMPING MUDDY WATER



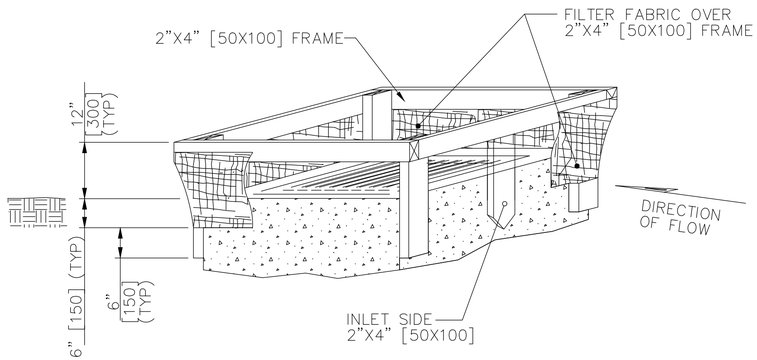
NOTES

THE PUMPING OR DIRECT DISCHARGE OF SEDIMENT-LADEN (MUDDY) WATER TO THE CITY'S SEWER SYSTEM OR A RECEIVING STREAM IS A VIOLATION OF OHIO EPA AND CITY OF COLUMBUS REGULATIONS.

ALL INLETS RECEIVING FLOW FROM RUNOFF, PUMPING ACTIVITIES, OR OTHER DIRECT DISCHARGES SHALL BE FITTED WITH AN INLET PROTECTION DEVICE THAT IS PROPERLY SIZED AND SECURED TO REDUCE THE DISCHARGE OF SEDIMENT INTO THE STORM SEWER SYSTEM AND RECEIVING STREAM. INLET PROTECTION IS REQUIRED ON ALL INLETS RECEIVING DISCHARGE REGARDLESS OF WHETHER OR NOT THE INLET IS TRIBUTARY TO ANY DOWNSTREAM EROSION AND SEDIMENT CONTROLS.

DISCHARGE HOSES USED DURING PUMPING ACTIVITIES SHALL BE FITTED WITH SEDIMENT BAGS THAT ARE PROPERLY SIZED PER MANUFACTURER'S RECOMMENDATIONS REGARDLESS OF WHAT OTHER SEDIMENT CONTROLS ARE IN PLACE FURTHER DOWNSTREAM. SEDIMENT BAGS MUST BE PROPERLY SECURED TO THE DISCHARGE HOSE AND PLACED OVER VEGETATED AREAS, WHERE FEASIBLE, DURING DISCHARGE. SEE DETAIL ABOVE OF A TYPICAL SEDIMENT BAG INSTALLATION.

INLET PROTECTION



INLET PROTECTION

NOTES

MATERIALS:
FURNISH INLET PROTECTION CONSISTING OF 18" [0.5 M] WIDE FILTER FABRIC FENCE WITH A SECURELY NAILED 2"X4" [50X100] WOOD FRAME WITH A VERTICALLY DRIVEN 2"X4" [50X100] ON THE INLET, OR FLOW, SIDE OF THE STRUCTURE. USE FILTER FABRIC CONFORMING TO 712.09, TYPE C.

CONSTRUCTION:
CONSTRUCT AN 18" [0.5 M] WIDE FILTER FABRIC FENCE SUPPORTED AROUND A STORM DRAIN INLET OR CATCH BASIN WITH A SECURELY NAILED 2"X4" [50X100] WOOD FRAME. EXCAVATE A 6" [150] TRENCH AROUND THE INLET, AND DRIVE SUPPORT POSTS 6" [150] BELOW THE EXCAVATED TRENCH BOTTOM. STRETCH THE FABRIC AROUND THE FRAME. SECURE IT TIGHTLY, ENSURING THAT 6" [150] OF FABRIC IS IN THE TRENCH. OVERLAP THE FABRIC ON ONE SIDE OF THE INLET SO THAT THE FABRIC ENDS ARE NOT ATTACHED TO THE SAME POST. BACKFILL AND COMPACT THE EXCAVATED SOIL TIGHTLY ONTO THE FABRIC. PLACE A VERTICAL 2"X4" [50X100] IN THE CENTER OF THE INLET SO THAT THE TOP IS AT THE TOP OF THE FENCE AND THE BOTTOM IS AT LEAST 6" [150] BELOW THE BOTTOM OF THE DITCH.

PAYMENT:
ALL LABOR AND MATERIALS REQUIRED, INCLUDING THOSE NOT SPECIFICALLY IDENTIFIED IN SS832, FOR THE INSTALLATION OF INLET PROTECTION SHALL BE CONSIDERED INCIDENTAL TO THE COST OF ITEM 207 – ESC/SWP3 PAY ITEMS – AS PER PLAN.

CIP: 540007-100012
PID NUMBER: 99733

EROSION CONTROL
STANDARD DETAILS

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

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Corridor	Sheet		FIRM Panel No.	Zone	BFE	
	from	to			start	end
Hayden Run Rd	158	161	39049C0194K	X	-	-
Hayden Run Rd	162	-	39049C0194K	AE	913	912
Hayden Run Rd	163	-	39049C0194K	AE	911	910
Hayden Run Rd	164	165	39049C0194K	X	-	-
Hayden Run Rd	166	171	39049C0142K	X	-	-
Hayden Run Rd	172	174	39049C0132K	AE	874	862
Hayden Run Rd	175	-	39049C0132K	X	-	-
Hayden Run Rd	176	-	39049C0132K	AE	849	845
I-270	178	180	39049C0282K	X	-	-
I-270	181	-	39049C0301K	X	-	-
Frank Rd	184	190	39049C0317K	AE	709	710
Refugee Rd	192	195	39049C0341K	X	-	-
Refugee Rd	196	200	39049C0342L	X	-	-
Refugee Rd	201		39049C0342L	AE	747	747
Refugee Rd	202	203	39049C0342L	X	-	-
I-71	205	206	39049C0318K	X	-	-
I-71	207	-	39049C0319K	AE	707	708
I-71	208	212	39049C0317K	AE	708	713
US-23	217	-	39049C0319K	AE	699	699
US-23	218	229	39049C0338K	X	-	-
US-23	230	-	39049C0336K	AE	708	708
US-23	231	-	39049C0336K	X	-	-
Hamilton Rd	236	-	39049C0334L	X	-	-
Courtright Rd	239	243	39049C0342L	X	-	-
Courtright Rd	245	246	39049C0342L	AE	760	769
Courtright Rd	247	249	39049C0334L	AE	769	771
Waggoner Rd	251	255	39049C0356K	X	-	-
Westerville Rd	257	258	39049C0183K	AE	792	792
Westerville Rd	259	-	39049C0183K	X	-	-
Westerville Rd	260	261	39049C0181K	X	-	-
Hamilton Rd	263	265	39049C0211K	X	-	-
Hamilton Rd	266	277	39049C0203K	X	-	-
Dublin-Granville Rd	279	-	39049C0184K	X	-	-
Dublin-Granville Rd	280	285	39049C0203K	X	-	-
New Albany Rd	288	293	39049C0202K	X	-	-
New Albany Rd	294	-	39049C0202K	AE	-	-

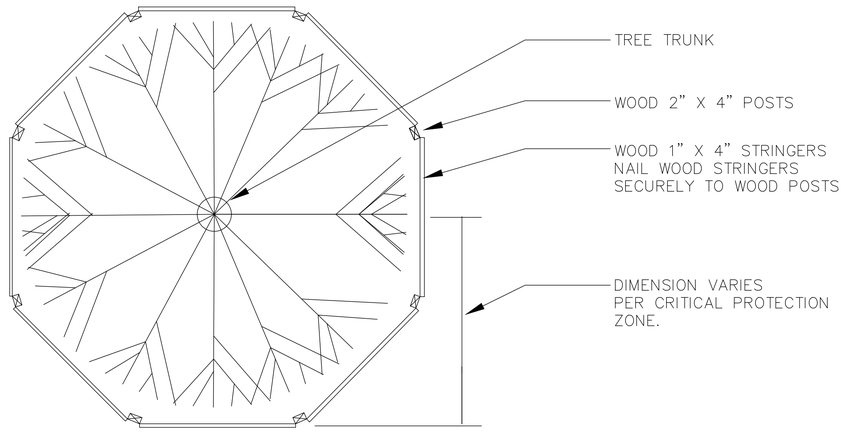
Corridor	Sheet		FIRM Panel No.	Zone	BFE	
	from	to			start	end
New Albany Rd	295	-	39049C0202K	X	982	982
SR-161	297	-	39049C0184K	X	-	-
SR-161	298	-	39049C0184K	AE	821	822
SR-161	299	303	39049C0203K	X	-	-
SR-161	304	-	39049C0203K	AE	958	958
SR-161	305	306	39049C0203K	X	-	-
Hard Rd	347	351	39049C0152K	X	-	-
Hard Rd	352	360	39049C0156K	X	-	-
Linworth Rd	362	366	39049C0156K	X	-	-
Olentangy River Rd	368	372	39049C0156K	X	-	-
Campus View Blvd	374	376	39049C0157K	X	-	-
Flint Rd	378	380	39049C0157K	X	-	-
Sancus Blvd	382	385	39049C0063K	X	-	-
Polaris Pkwy	387	401	39049C0063K	X	-	-
I-71	403	404	39049C0063K	X	-	-
Gemini/Ikea Way	406	414	39049C0063K	X	-	-
I-71	416	417	39049C0176K	X	-	-
I-71	418	420	39049C0063K	X	-	-
Summit St	422	432	39049C0307K	X	-	-
Summit St	433	434	39049C0169K	X	-	-
Fourth St	436	444	39049C0326K	X	-	-
Fourth St	446	456	39049C0188K	X	-	-
Fourth St	467	471	39049C0328K	X	-	-
Ohio/Champion Ave	473	477	39049C0328K	X	-	-
Leonard Ave	479	482	39049C0326K	X	-	-
Leonard Ave	483	495	39049C0327K	X	-	-
Sunbury Rd	497	-	39049C0193K	X	-	-
Sunbury Rd	498	499	39049C0191K	X	-	-
Innis Rd	501	504	39049C0187K	X	-	-
Innis Rd	504	-	39049C0191K	AE	771	771
Agler Rd	506	511	39049C0193K	X	-	-
Stelzer Rd	513	522	39049C0193K	X	-	-
Stelzer Rd	523	532	39049C0191K	X	-	-
Easton Area	535	555	39049C0191K	X	-	-
Sunbury Rd	557	558	39049C0191K	X	-	-
Sunbury Rd	559	561	39049C0183K	X	-	-

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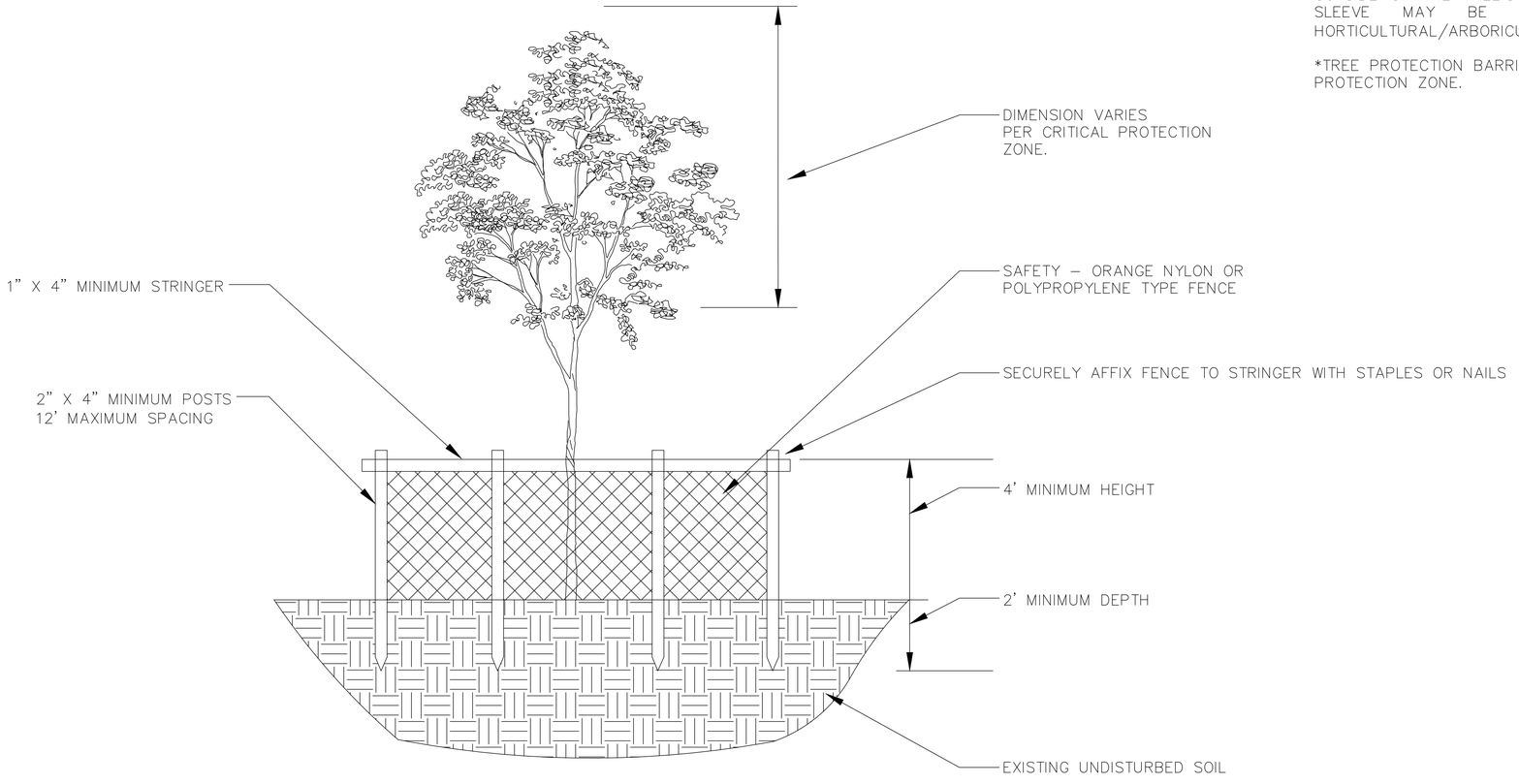
CIP: 540007-100012
PID NUMBER: 99733

FLOOD INSURANCE RATE MAP
STANDARD DETAILS

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL



NOTE: FOR GROUPS OF TREES PLACE BARRICADES BETWEEN TREES AND CONSTRUCTION ACTIVITY



NOTE:
1. FOR GROUPS OF TREES:
   A. PLACE THE BARRICADES AT THE DRIPLINE AROUND THE GROUPS PERIMETER.

2. INSTALLATION OF TREE PROTECTION BARRICADES SHALL BE PERFORMED BEFORE ANY SITE DEVELOPMENT ACTIVITY TAKES PLACE.

3. THE TREE PROTECTION BARRICADES SHALL REMAIN IN PLACE THROUGHOUT THE CONSTRUCTION PHASE AND UNTIL ALL SITE DEVELOPMENT ACTIVITIES ARE FULLY COMPLETE.

4. ANY DAMAGE THAT MAY OCCUR TO THE BARRICADES SHALL BE REPAIRED OR REPLACED TO THE ORIGINAL SPECIFICATIONS WITHIN 24 HOURS OF THE DAMAGE OCCURRING.

5. THE AREA WITHIN THE TREE PROTECTION BARRICADES SHALL NOT BE USED FOR THE STORAGE OF ANY MATERIALS, SUPPLIES OR DEBRIS OR THE DISPOSAL OF ANY SOLID, LIQUID OR GASEOUS MATERIALS THAT COULD CAUSE HARM TO THE TREES.

6. ANY TREE SCHEDULED TO REMAIN IF DAMAGED DURING CONSTRUCTION SHALL BE REPLACED BY PROVIDING EQUIVALENT MONETARY VALUE TO THE CITY'S TREE FUND.

7. MONETARY TREE VALUE SHALL BE DETERMINED BY USING THE GUIDE FOR PLANT APPRAISAL, PUBLISHED BY THE INTERNATIONAL SOCIETY OF ARBORICULTURE OR OTHER SOURCES AS DETERMINED BY THE CITY FORESTER.

8. BARRICADES SHALL PROTECT ALL TREES SCHEDULED TO REMAIN BEFORE AND DURING ALL CONSTRUCTION ACTIVITIES.

9. ANY PROPOSED UNDERGROUND UTILITIES SHALL BE ROUTED AROUND PROTECTED TREES TO THE OUTSIDE OF THE TREE'S DRIPLINE. IF THIS IS NOT FEASIBLE, AS DETERMINED BY THE COUNTY, A SLEEVE MAY BE USED UNDER THE TREE, PROVIDED THAT ALL ACCEPTABLE HORTICULTURAL/ARBORICULTURAL PRACTICES ARE ADHERED TO.

*TREE PROTECTION BARRICADES SHALL BE LOCATED TO PROTECT A MINIMUM OF 75% OF THE CRITICAL PROTECTION ZONE.

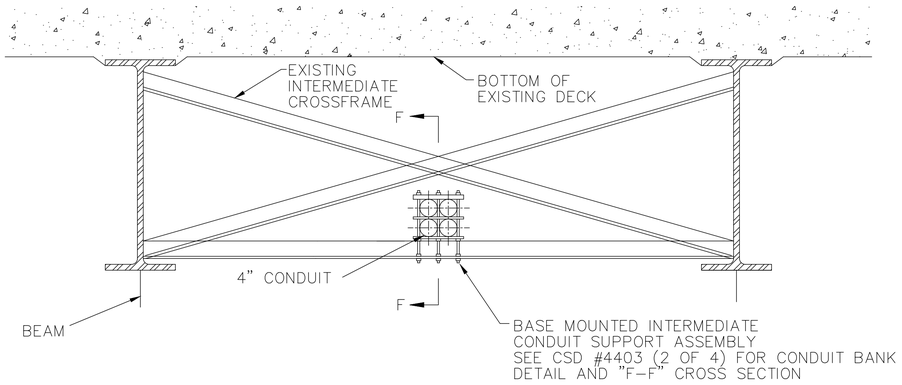
CIP: 540007-100012
PID NUMBER: 99733

TREE PROTECTION BARRICADE
STANDARD DETAILS

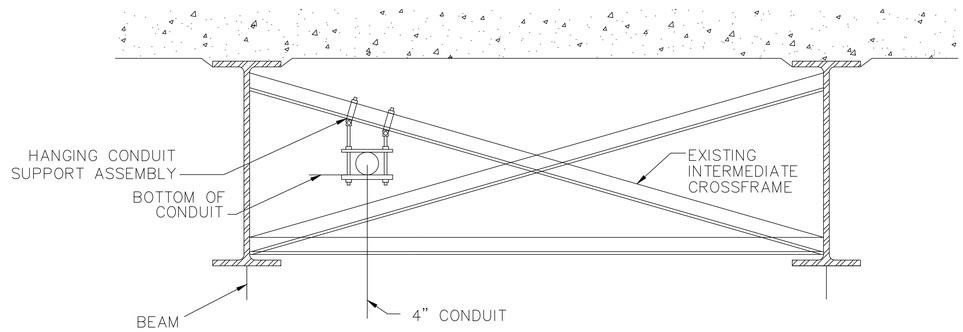
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

3378-E

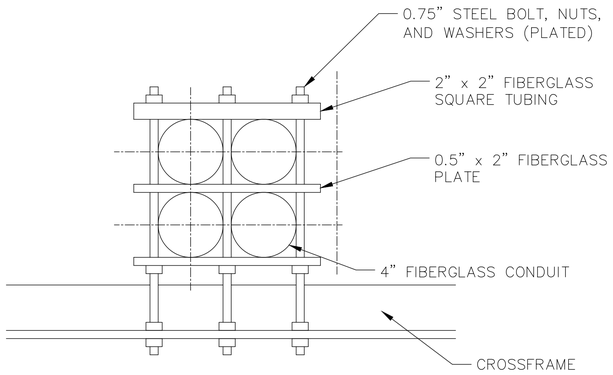
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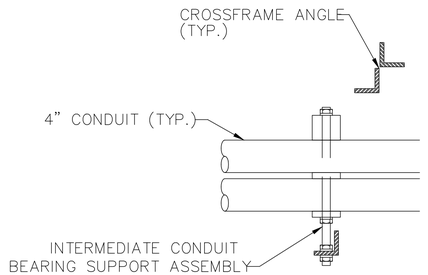
CONDUIT BEARING ATTACHMENT



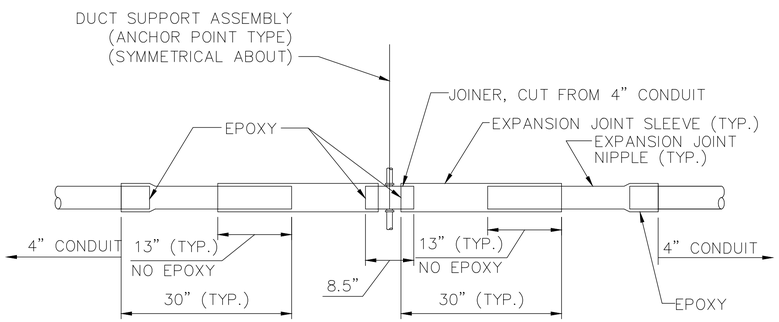
CONDUIT HANGING ATTACHMENT



CONDUIT BANK DETAIL

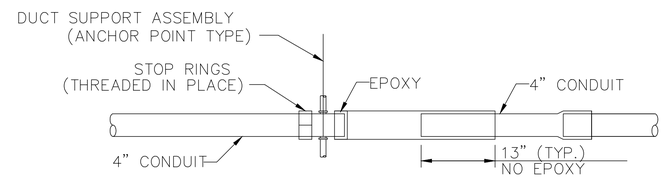


SECTION "F-F"



BACK-TO-BACK EXPANSION JOINT DETAIL

EXPANSION JOINT EVERY 150' AND AT
EACH RIGID ATTACHMENT - ENDS.



COMBINATION STOP RING AND EXPANSION JOINT

TYPICAL EXPANSION JOINT DETAILS

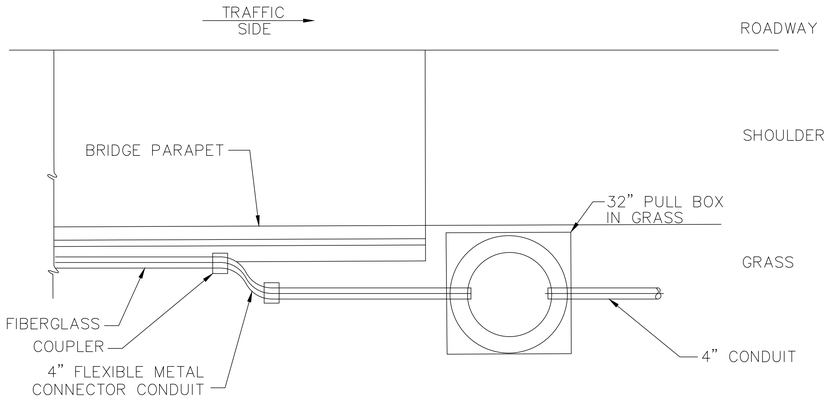
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CIP: 540007-100012
PID NUMBER: 99733

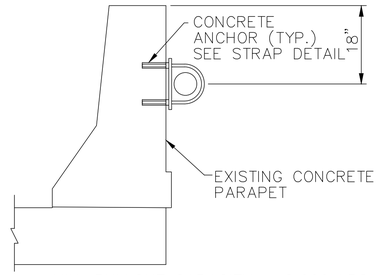
CONDUIT ATTACHED TO STRUCTURE DETAILS

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E - FINAL SUBMITTAL

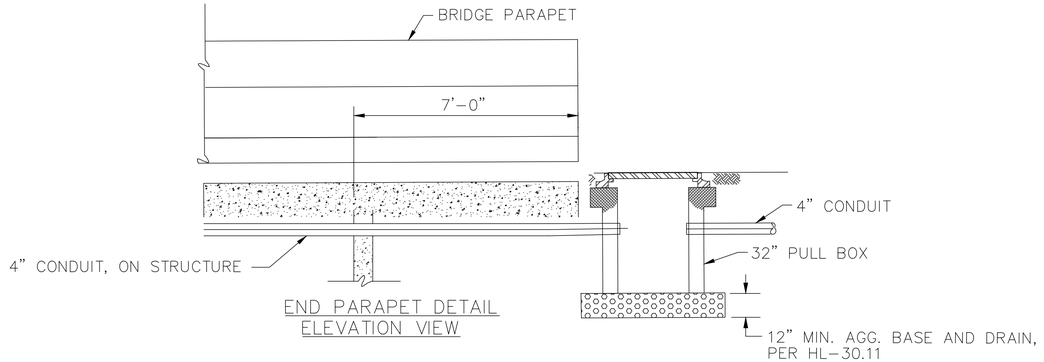
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END PARAPET DETAIL
PLAN VIEW

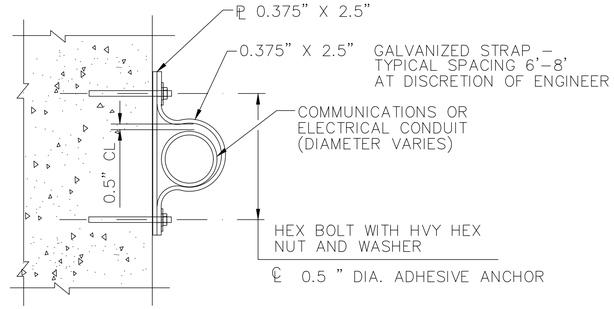


CONDUIT ATTACHMENT TO
PARAPET OR BACK OF
BARRIER WALL



END PARAPET DETAIL
ELEVATION VIEW

TYPICAL CONDUIT
TREATMENT AT END OF BRIDGE PARAPET



STRAP DETAIL
NOT TO SCALE

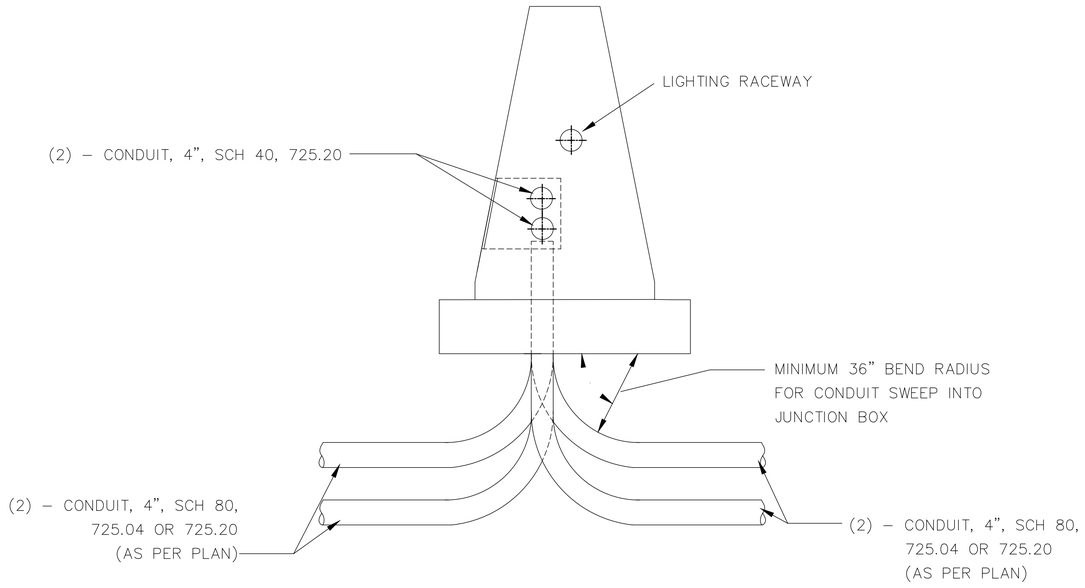
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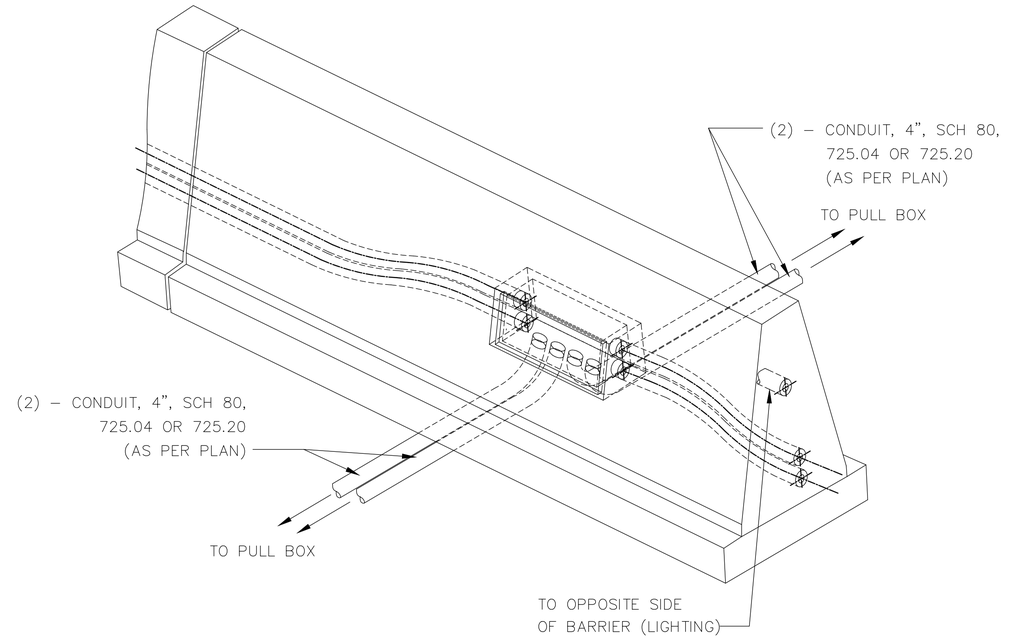
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PID NUMBER: 99733

PARAPET DETAILS

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E - FINAL SUBMITTAL



36" MEDIAN JUNCTION BOX, AS PER PLAN



NOTES

COST OF REFINISHING AROUND BOX IS INCIDENTAL TO THE COST OF BARRIER WALL JUNCTION BOX INSTALLATION

ITEM 625E MEDIAN JUNCTION BOX, AS PER PLAN

THE CONTRACTOR SHALL SUPPLY A PULL BOX THAT MEETS THE FOLLOWING SPECIFICATIONS:

SHALL BE OF TYPE POLYMER–CONCRETE AND SHALL MEET THE FOLLOWING SPECIFICATIONS:

SIZE: 17 INCHES (HEIGHT) X 30 INCHES (LENGTH)
MINIMUM WALL THICKNESS: 1/2 INCH
MINIMUM LID THICKNESS: 2 INCHES
ANSI TIER 22 RATING WITH A MINIMUM DESIGN LOAD OF 22,000 POUNDS

LID SHALL BE MARKED "TRAFFIC"

THE MEDIAN JUNCTION BOX SHALL BE SECURED IN THE MEDIAN BARRIER WALL USING DOWELS. (NON–SHRINK GROUT MAY BE USED WHEN NECESSARY)

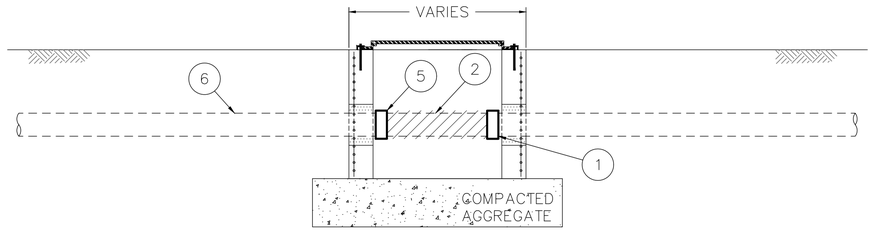
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PID NUMBER: 99733

TRAFFIC SURVEILLANCE
36" MEDIAN JUNCTION BOX DETAIL

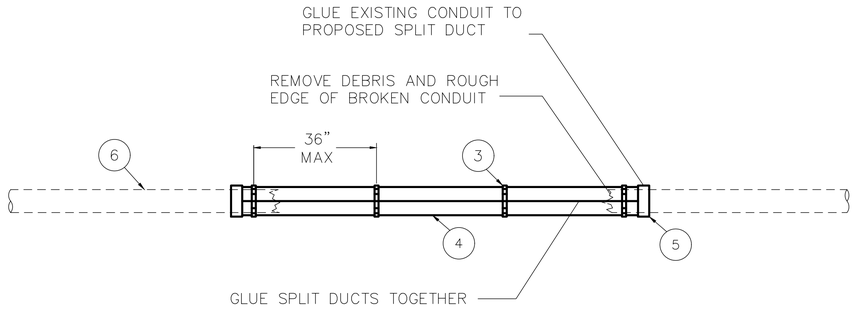
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

3378-E

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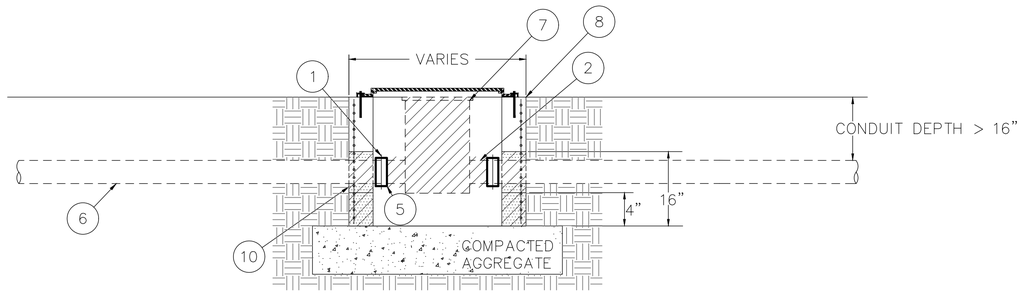
PROPOSED PULL BOX INTERCEPTING EXISTING CONDUIT RUN



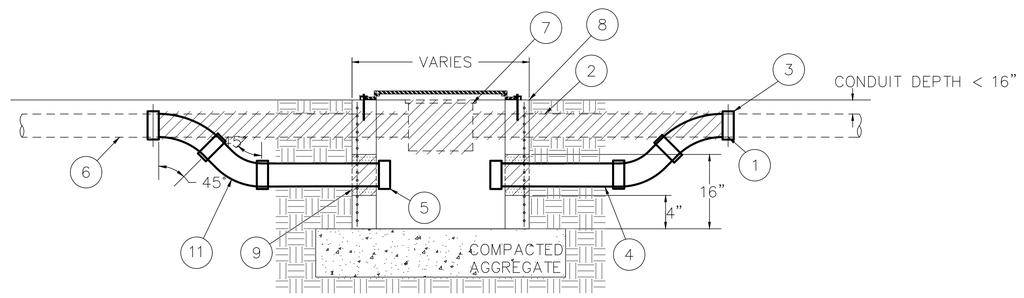
SPLIT DUCT CONDUIT REPAIR

1. CUT EXISTING CONDUIT
2. REMOVE EXISTING CONDUIT
3. CLAMP
4. PROPOSED SPLIT DUCT CONDUIT
5. CONDUIT BUSHING
6. EXISTING CONDUIT

* USE SPLIT DUCT CONDUIT AND BUSHINGS AS DIRECTED BY THE ENGINEER.



EXISTING PULLBOX W/ CONDUIT >16" BELOW SURFACE GRADE



EXISTING PULLBOX W/ CONDUIT <16" BELOW SURFACE GRADE

1. CUT EXISTING CONDUIT
2. REMOVE EXISTING CONDUIT
3. CONDUIT COUPLER
4. PROPOSED CONDUIT
5. CONDUIT BUSHING
6. EXISTING CONDUIT
7. REMOVE EXISTING PULLBOX
8. PROPOSED PULLBOX
9. REMOVE KNOCKOUT, INSERT CONDUIT, SEAL AROUND CONDUIT W/ MORTAR, COMPLETELY FILLING KNOCKOUT HOLE
10. REMOVE KNOCKOUT, LOWER PB OVER CONDUIT, SEAL AROUND CONDUIT W/ MORTAR, COMPLETELY FILLING KNOCKOUT HOLE
11. 45 DEGREE CONDUIT ELBOW

* USE SPLIT DUCT CONDUIT AND BUSHINGS AS DIRECTED BY THE ENGINEER.

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CONDUIT & PB DETAILS – INTERCEPTING EX. CONDUIT/SPLIT DUCT REPAIR & REMOVE AND REPLACE EX. PB

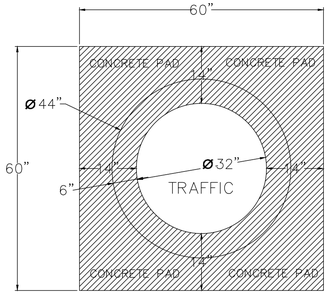
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM (CTSS) PHASE E – FINAL SUBMITTAL

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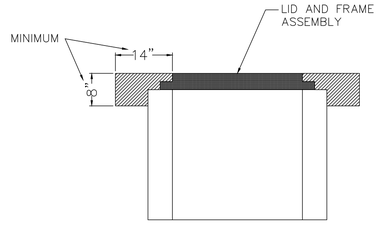
3378-E

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ITEM 625 – PULL BOX, 725.08, 32", AS PER PLAN



TOP VIEW



SIDE VIEW

32" PULL BOX PAD

CONTRACTOR SHALL MAKE NECESSARY PROVISIONS TO ENSURE THAT THE LID AND RING (FRAME ASSEMBLY) ARE SECURE BEFORE POURING CONCRETE. EXPANSION MATERIAL SHALL BE PLACED BETWEEN LID AND RING (FRAME ASSEMBLY). CONTRACTOR SHALL INSPECT THE FRAME ASSEMBLY FOR ANY DEFICIENCIES AND/OR VOIDS PRIOR TO POURING CONCRETE. ALL VOIDS SHALL BE FILLED PRIOR TO POURING PAD. ALL DEFICIENCIES SHALL BE REPORTED TO ODOT PERSONNEL ON SCENE SO THAT PROMPT CORRECTIONS CAN BE MADE. WORKPADS SHALL BE SLOPED SO THAT ALL SIDES ARE EVEN WITH THE GROUND. CONTRACTOR SHALL ENSURE THAT ALL DEBRIS AND EXCESS CONCRETE IS REMOVED FROM THE INSIDE OF THE RING SO THAT THE LID CAN BE EASILY BE REMOVED AND REPLACED.

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FEDERAL PROJECT NUMBER E100(958)

CIP: 540007–100012
PID NUMBER: 99733

32" PULLBOX PAD DETAILS

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

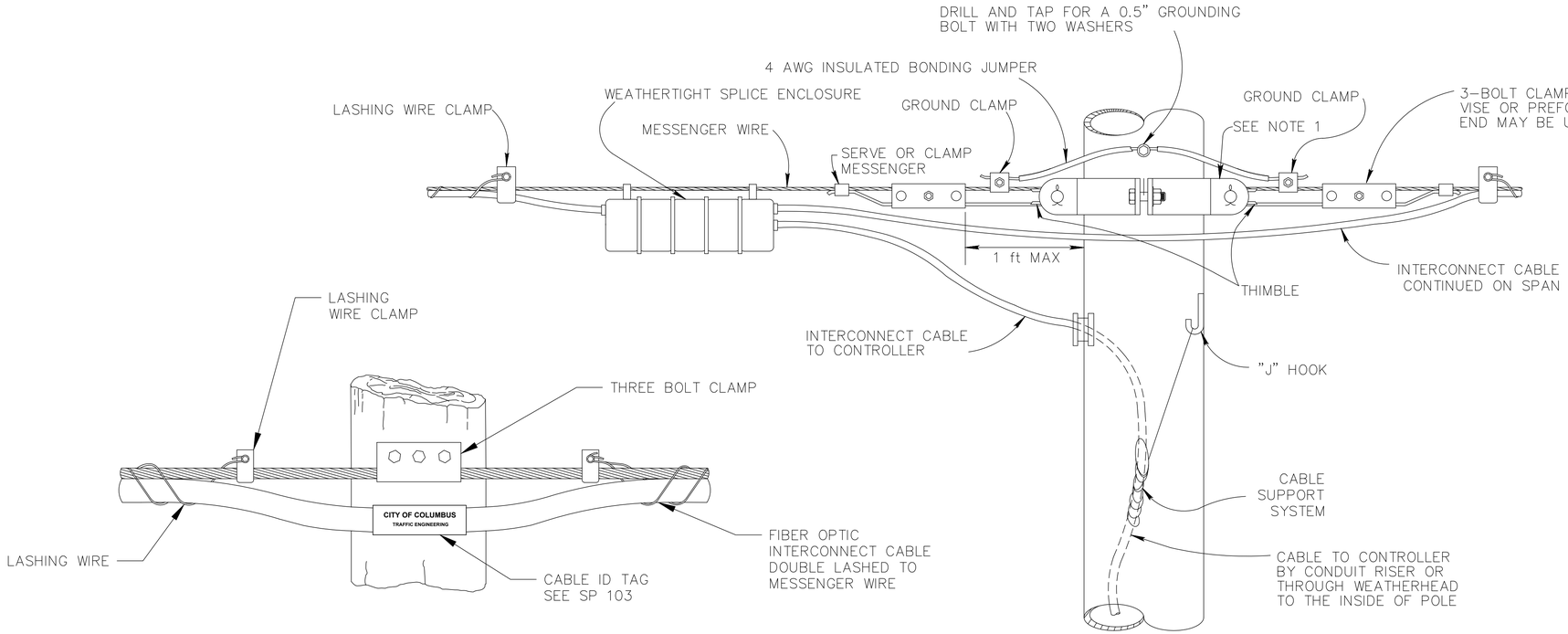
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CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

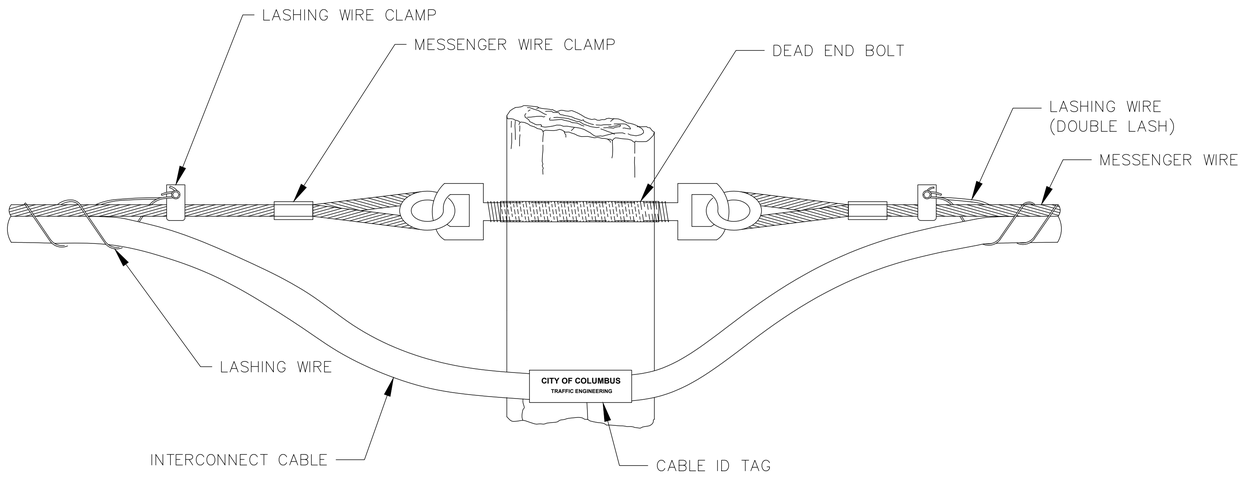


MESSENGER WIRE WITH ACCESSORIES – THREE BOLT CLAMP – WOOD POLE

MESSENGER WIRE WITH ACCESSORIES – STRAIN POLE

NOTES

1. MESSENGER WIRE POLE ATTACHMENT SHALL BE BY A POLE CLAMP ON STEEL POLES AND BE A 0.625 INCH THRU-BOLT (OR THIMBLE-EYE BOLT) WITH WASHERS ON WOOD POLES.
2. THE INTERCONNECT CABLE SHALL HAVE A SAG BETWEEN APPROXIMATELY 1.5% OR MATCH EXISTING UTILITY LINES.
3. THE MINIMUM 3-BOLT SIZE GALVANIZED CLAMP SHALL BE 6 INCHES LONG WITH 0.5 INCH DIAMETER BOLTS. PERFORMED GUY GRIPS SHALL NOT BE USED TO ATTACH THE MESSENGER WIRE TO THE SIGNAL POLES. THEIR USE IS LIMITED TO BULLRING ATTACHMENTS.
4. THE POWER SERVICE AERIAL CABLES WITH MESSENGER WIRE AND SPLICES SHALL BE PROVIDED BY THE APPROPRIATE POWER UTILITY AS INDICATED ON THE PLANS UNLESS OTHERWISE SPECIFIED.
5. PROVIDE A CLEVIS WITH INSULATOR ATTACHED TO THE WOOD POLE BY MEANS OF A 0.625 INCH THRU-BOLT FOR ATTACHMENT OF THE UTILITY PROVIDED POWER SERVICE AERIAL CABLES WITH MESSENGER WIRE.
6. FOR ALL AERIAL SPANS CROSSING ROADWAYS, THE CONTRACTOR SHALL INSTALL MESSENGER WIRE USING A DOUBLE DEAD END BOLT ASSEMBLY ON BOTH ENDS OF THE MESSENGER WIRE IN PLACE OF A POLE CLAMPS.
7. THIS METHOD OF ENTERING STRAIN POLE IS APPLICABLE ONLY TO LOOSE BUFFER TUBE CABLES WITH 24 FIBER STRANDS OR LESS. INSTALLER MUST ENSURE MINIMUM LOADED BEND RADII OF CABLES ARE NOT EXCEEDED DURING INSTALLATION.



MESSENGER WIRE WITH DOUBLE DEAD END BOLT ATTACHMENTS – WOOD POLE

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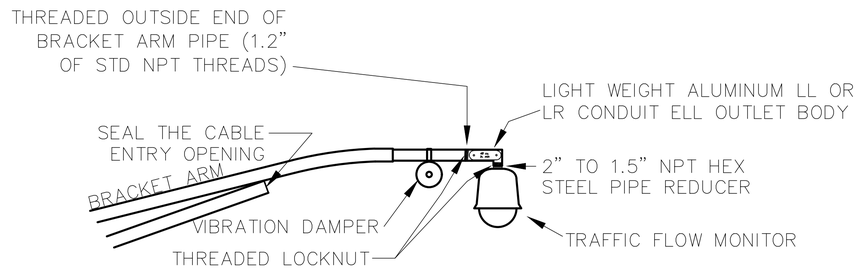
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MESSENGER WIRE ATTACHMENT DETAILS

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM (CTSS) PHASE E – FINAL SUBMITTAL

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RUN THE TRAFFIC FLOW MONITOR CABLE IN THE TOP ARM BRACKET.



ALL MOUNTING HARDWARE COLOR COATED TO MATCH BRACKET ARM COLOR.

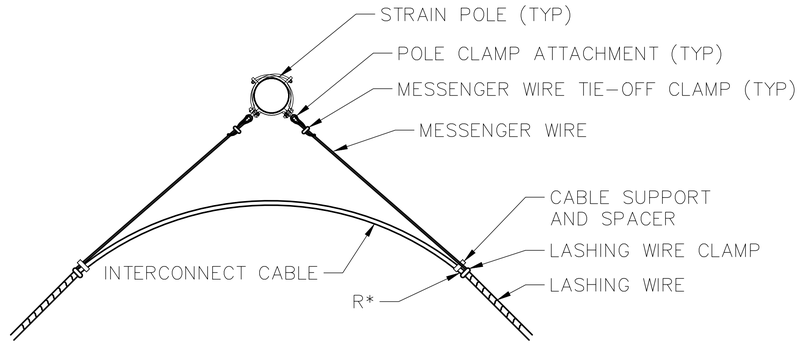
LL/LR CONDUIT ELL SPECS

- THREADED BODY (NPT) WITH NON-CORROSIVE HARDWARE
- 48 CU." INTERIOR AREA
- FLAT COVER WITH SOLID NEOPRENE GASKET
- COVER OPENING – 6" X 2.4"
- LIGHT WEIGHT ALUMINUM BODY
- PROVIDE #10 RUBBER STOPPER FOR OUTGOING CABLE; ENLARGE STOPPER HOLE AS NEEDED JUST ENOUGH TO FIT CABLE DIAMETER

NOTES

- REFER TO CSD 4110 FOR BRACKET ARM DETAILS.
- REFER TO CSD 4122 FOR VIBRATION DAMPENER DETAILS.

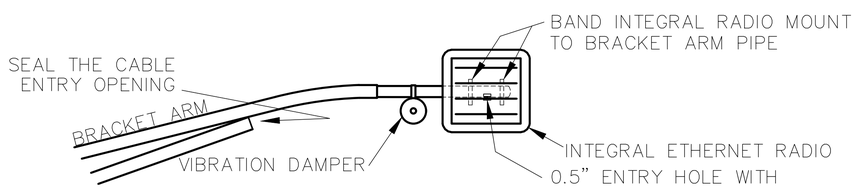
TRAFFIC FLOW MONITOR MOUNTING PROCEDURE
NOT TO SCALE



R* – DO NOT EXCEED MINIMUM BENDING RADIUS OF INTERCONNECT CABLE. REFER TO SP-103 FOR MINIMUM BENDING RADIUS VALUES.

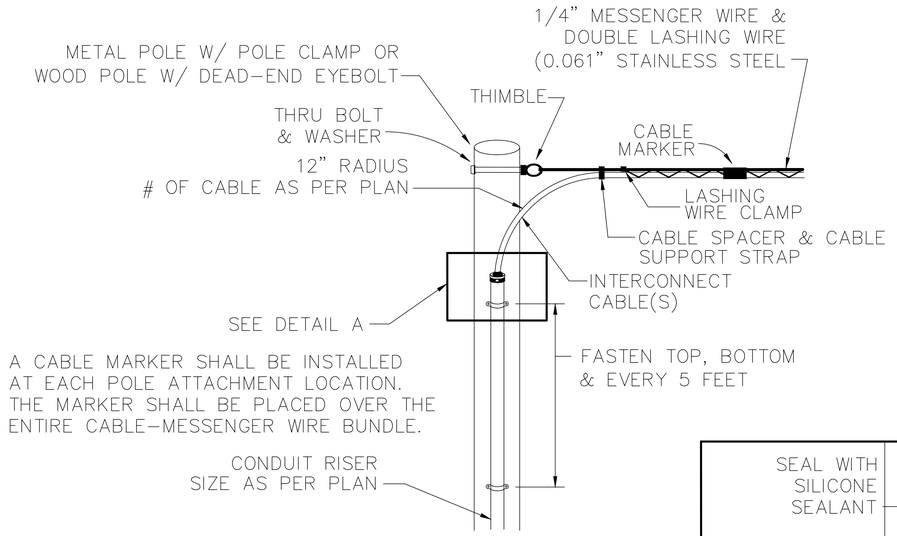
CABLE BEND AT STRAIN POLE
NOT TO SCALE

RUN THE INTEGRAL ETHERNET RADIO CABLE IN THE TOP ARM BRACKET.

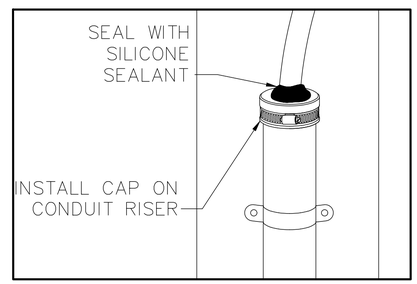


ALL MOUNTING HARDWARE COLOR COATED TO MATCH BRACKET ARM COLOR.

INTEGRAL ETHERNET RADIO MOUNTING PROCEDURE
NOT TO SCALE



MODIFIED CONDUIT RISER DETAIL
NOT TO SCALE



DETAIL A

3378-E

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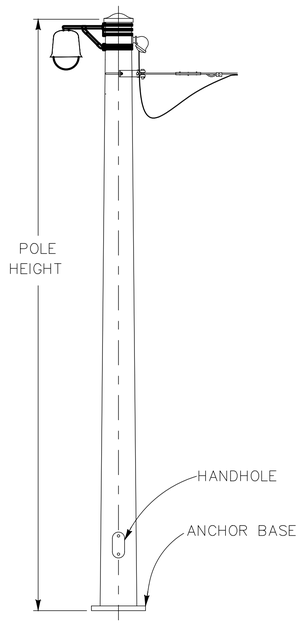
CIP: 540007-100012
PID NUMBER: 99733

STRAIN POLE TIE OFF

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

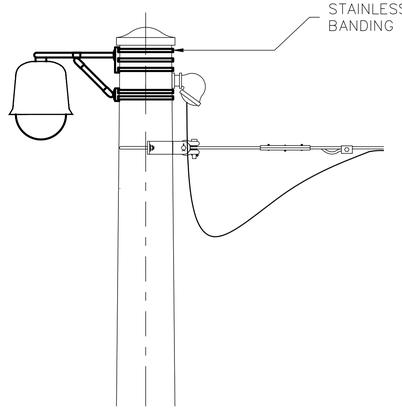
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915

J:\Jobs\63721 ctss phase e\TECHPROD\Sheets\Details\ST_CTSS_002_Detail5.dwg – BRACKET ARM AND MOD CON RISER layout ~ last saved by: nrubenstein 03/28/2017 09:13am ~ printed 09/12/2018 08:22am PSLTS: 1 LTS: 1 CAS: 1" = 1"



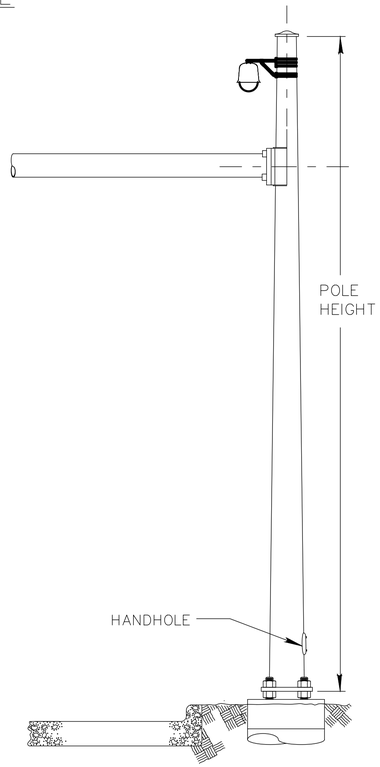
STRAIN POLE

NOT TO SCALE



DETAIL STRAIN POLE & BRACKET

NOT TO SCALE



SIGNAL POLE WITH MAST ARM

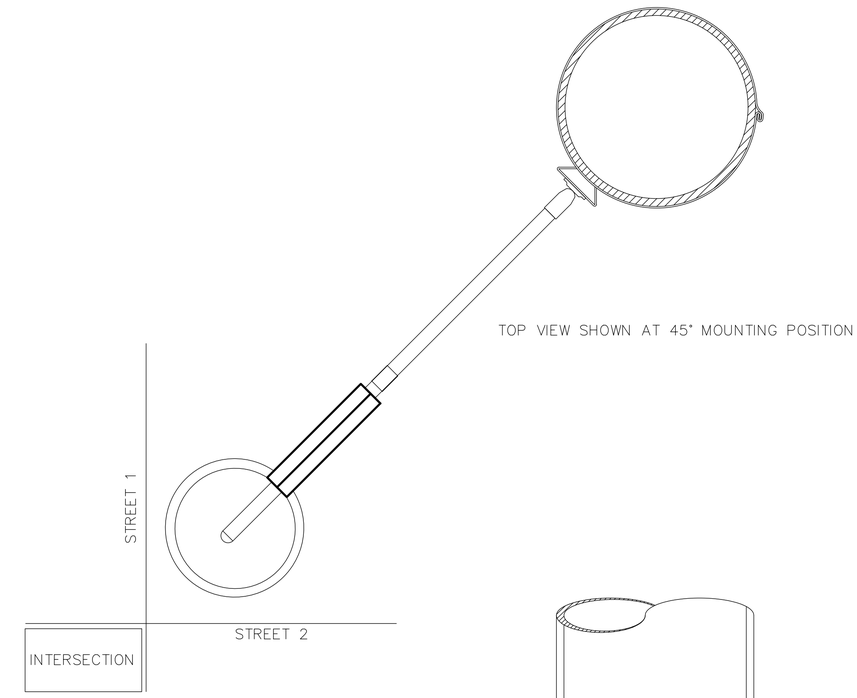
NOT TO SCALE

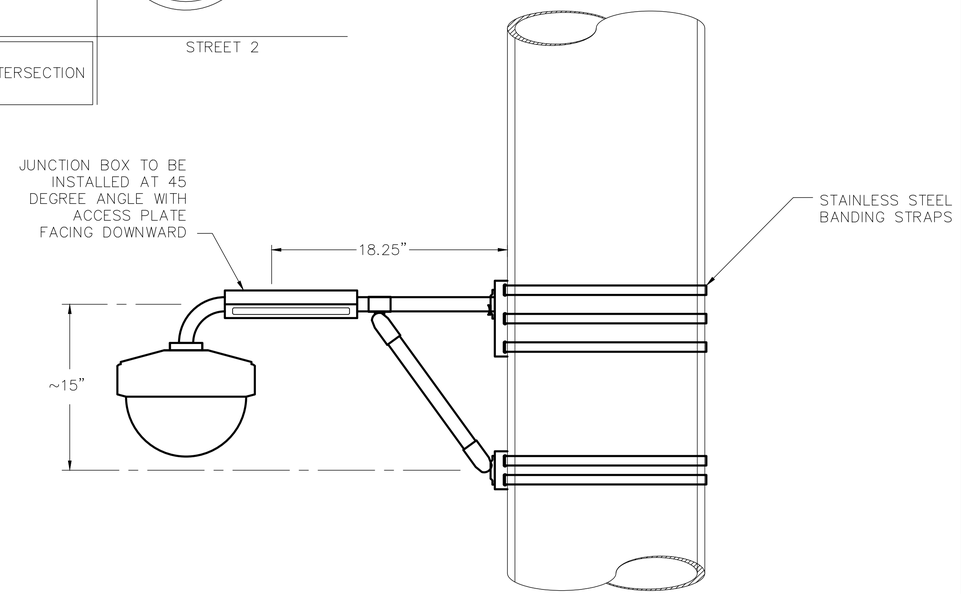
NOTES

1. CAMERA/CCTV DEVICES TO BE MOUNTED AT 45 DEGREES FROM EDGE OF PAVEMENT, OR AT THE DIRECTION OF THE ENGINEER.

POLE MOUNTED CAMERA BRACKET ASSEMBLY:

2. SHALL BE CONSTRUCTED OF LIGHTWEIGHT ALUMINUM
3. ALL HARDWARE SHALL BE STAINLESS STEEL
4. SHALL BE CAPABLE OF SUPPORTING CCTV ASSEMBLY UNITS UP TO 75LBS
5. NO EXPOSED CABLES – ALL CABLING SHALL BE HIDDEN BY BRACKET ASSEMBLY
6. SHALL INCLUDE ACCESS PANEL FOR INSTALLATION
7. ALL CONNECTION POINTS SHALL BE PROPOERLY SEALED TO ENSURE WEATHER PROOF CABLE PATHWAY FROM SIGNAL POLE INTO CCTV ASSEMBLY UNIT.





DETAIL POLE ADAPTERS & BRACKET

NOT TO SCALE

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CCTV INSTALLATION

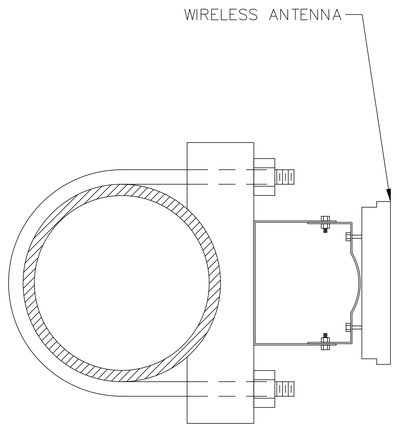
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

CIP: 540007-100012
PID NUMBER: 99733

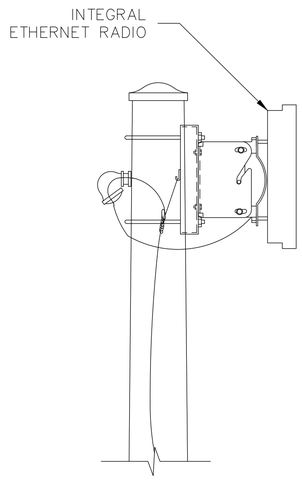
INSTALLATION AND STRAIN POLE DETAILS

3378-E

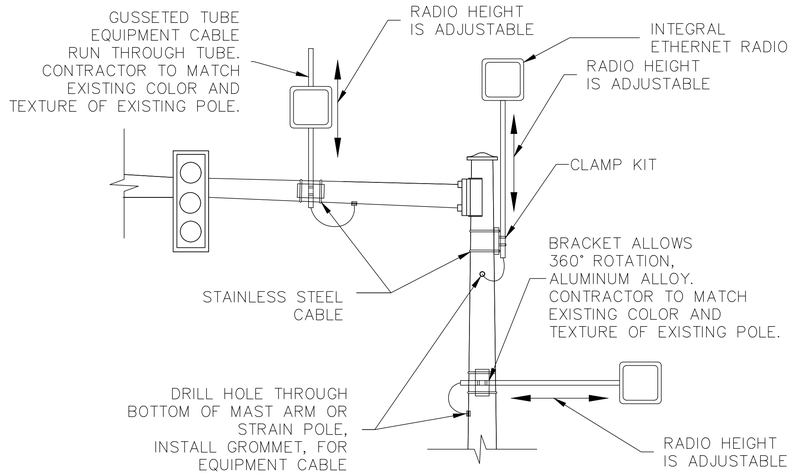
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TYPICAL WIRELESS
MOUNTING BRACKET DETAIL
TOP VIEW



TYPICAL WIRELESS MOUNTING
TO POLE DETAIL
SIDE VIEW



TYPICAL WIRELESS MOUNTING
TO POLE EXTENSION DETAIL
FRONT VIEW

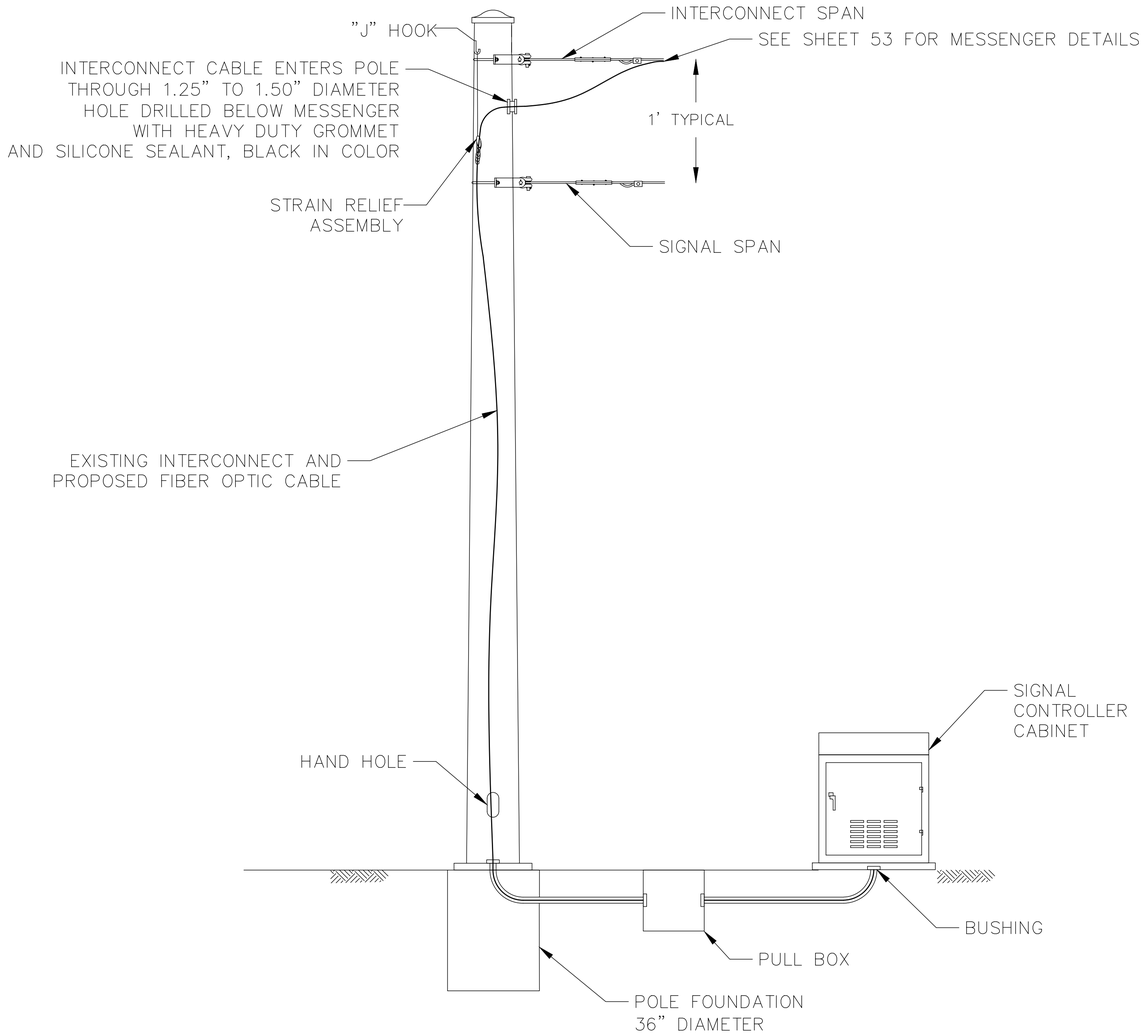
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CIP: 540007-100012
PID NUMBER: 99733

WIRELESS MOUNTING DETAILS

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

J:\Jobs\6372\1 ctss phase e\TECHPROD\Sheets\Details\ST_CTSS_002_Detail7.dwg – WIRELESS MOUNTING DETAILS layout ~ last saved by: sdlowry 01/04/2017 03:08pm ~ printed 09/12/2018 08:22am PSLTS: 1 LTS: 1 CAS: 1" = 1"



AERIAL SPAN TO
GROUND MOUNTED CABINET
THROUGH POLE

NOTES:

PROPOSED INTERCONNECT CABLE TO BE INSTALLED THROUGH DRILLED HOLE AS IDENTIFIED IN PLANS OR AS DIRECTED BY ENGINEER AND IS TO BE PAID INCIDENTAL TO DROP.

FIELD VERIFY CONDUIT BENDS ARE OF SUFFICIENT RADIUS TO PREVENT DAMAGE TO FIBER OPTIC CABLE.

NOT TO SCALE.

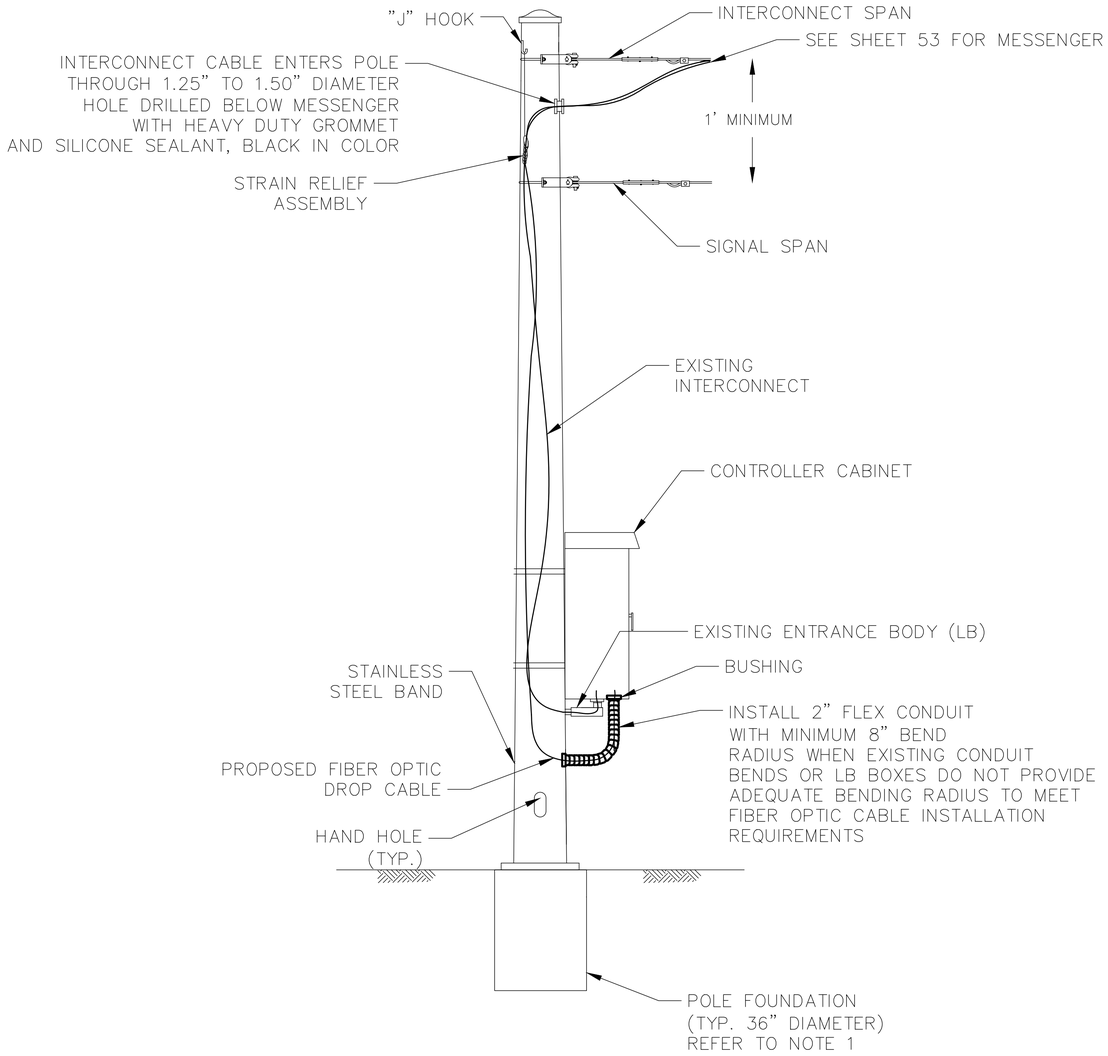
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AERIAL DROP CABLE INSTALLATION
SIGNAL POLE

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

CIP: 540007-100012
PID NUMBER: 99733

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AERIAL SPAN TO
POLE MOUNTED CABINET

NOTES:

PROPOSED INTERCONNECT CABLE TO BE INSTALLED THROUGH DRILLED HOLE AS IDENTIFIED IN PLANS OR AS DIRECTED BY ENGINEER AND IS TO BE PAID INCIDENTAL TO COMPOSITE CABLE, CAT5E CABLE, OR PATCH PANEL.

FLEXIBLE METAL CONDUIT TO BE INSTALLED AS DIRECTED BY OR APPROVED BY THE ENGINEER AND IS TO BE PAID INCIDENTAL TO COMPOSITE CABLE, CAT5E CABLE, OR PATCH PANEL.

NOT TO SCALE.

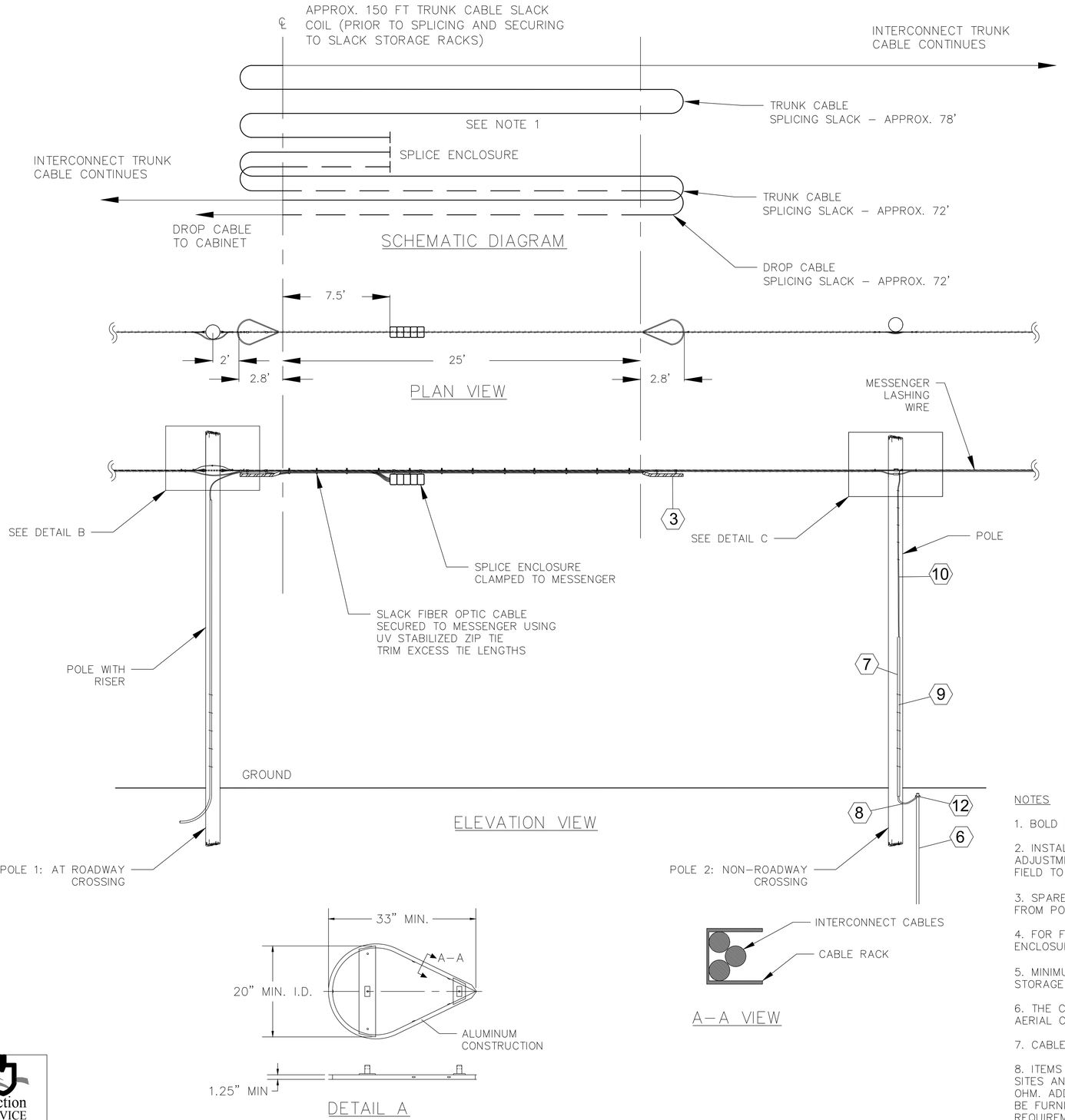
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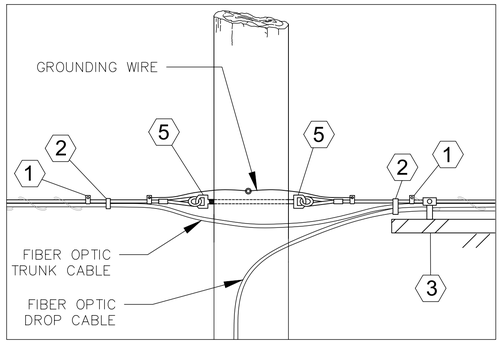
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CIP: 540007-100012
PID NUMBER: 99733

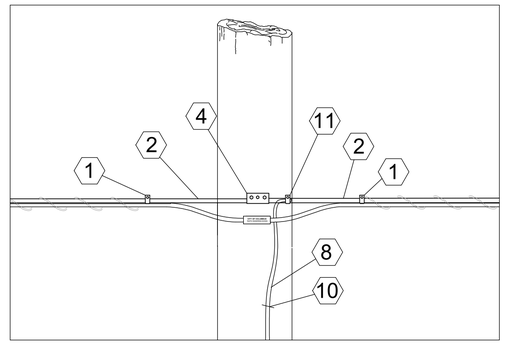
AERIAL DROP CABLE INSTALLATION
EMBEDDED POLE/WOOD POLE

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL





DETAIL B



DETAIL C

DETAIL A

A–A VIEW

1. MESSENGER/LASHING WIRE CLAMP
2. CABLE SUPPORT AND SPACER
3. CABLE STORAGE RACK, CLAMPED TO MESSENGER, SEE NOTE #2 AND DETAIL A
4. THREE BOLT CLAMP
5. DEAD END BOLT
6. ½"X10' GROUND ROD
7. GROUND WIRE WOOD MOLDING, 8'
8. COPPER COATED STEEL GROUND WIRE, NO. 6 AWG TYPICAL, VINYL COATED JACKET
9. STAPLE, 1–½" x 3"
10. STAPLE, ⅜" x 1–½"
11. COMPRESSION COUPLING
12. GROUND ROD CLAMP COUPLING

NOTES

1. BOLD LINE INDICATED COILED SLACK PORTION OF CABLES

2. INSTALLATION AND DIMENSIONS AS SHOWN ARE TYPICAL AND WILL VARY BETWEEN SITES. MANUAL ADJUSTMENT OF SPACING BETWEEN RACKS AND PLACEMENT OF SPLICE ENCLOSURE WILL BE REQUIRED IN FIELD TO ENSURE ALL CABLES AND HARDWARE IS SECURELY FASTENED TO AERIAL SPAN

3. SPARE CABLE SHALL NOT BE STORED OVER ROADWAYS OR DRIVEWAYS AND SHALL BE 10 FEET (MINIMUM) FROM POLES AT SIGNALIZED INTERSECTIONS.

4. FOR FIBER OPTIC CABLE STORE A MINIMUM OF 75 FEET OF EACH CABLE ENTERING THE ADJACENT SPLICE ENCLOSURE OR AS SHOWN ON PLANS.

5. MINIMUM INTERNAL DIAMETER OF 20", MINIMUM LENGTH OF 34", MINIMUM HEIGHT OF 1.25" FOR ALL STORAGE RACKS

6. THE COST OF THE STORAGE RACKS, HARDWARE, AND ACCESSORIES ARE CONSIDERED INCIDENTAL TO AERIAL CABLE INSTALLATION BID ITEMS.

7. CABLE STORAGE RACKS SHALL BE USED FOR ALL AERIAL INTERCONNECT CABLE SLACK STORAGE.

8. ITEMS 6 THROUGH 12 ARE TO BE USED FOR GROUNDING MESSENGER CABLE AT PROPOSED WOOD POLE SITES AND ANY OTHER POLES AS DIRECTED BY THE ENGINEER. MAXIMUM ACCEPTABLE RESISTANCE – 25 OHM. ADDITIONAL GROUNDING RODS MAY BE INSTALLED TO MEET THIS REQUIREMENT. GROUND RODS ARE TO BE FURNISHED IN ACCORDANCE WITH THE CMSC 725.16. INSTALLATION AND TESTING SHALL CONFORM TO THE REQUIREMENTS OF THE CMSC 625.16. COUPLINGS, CONNECTORS, STAPLES, AND MOLDING SHALL CONFORM TO THE REQUIREMENTS OF THE CITY OF COLUMBUS DEPARTMENT OF PUBLIC UTILITIES SPECIFICATION MIS–026.

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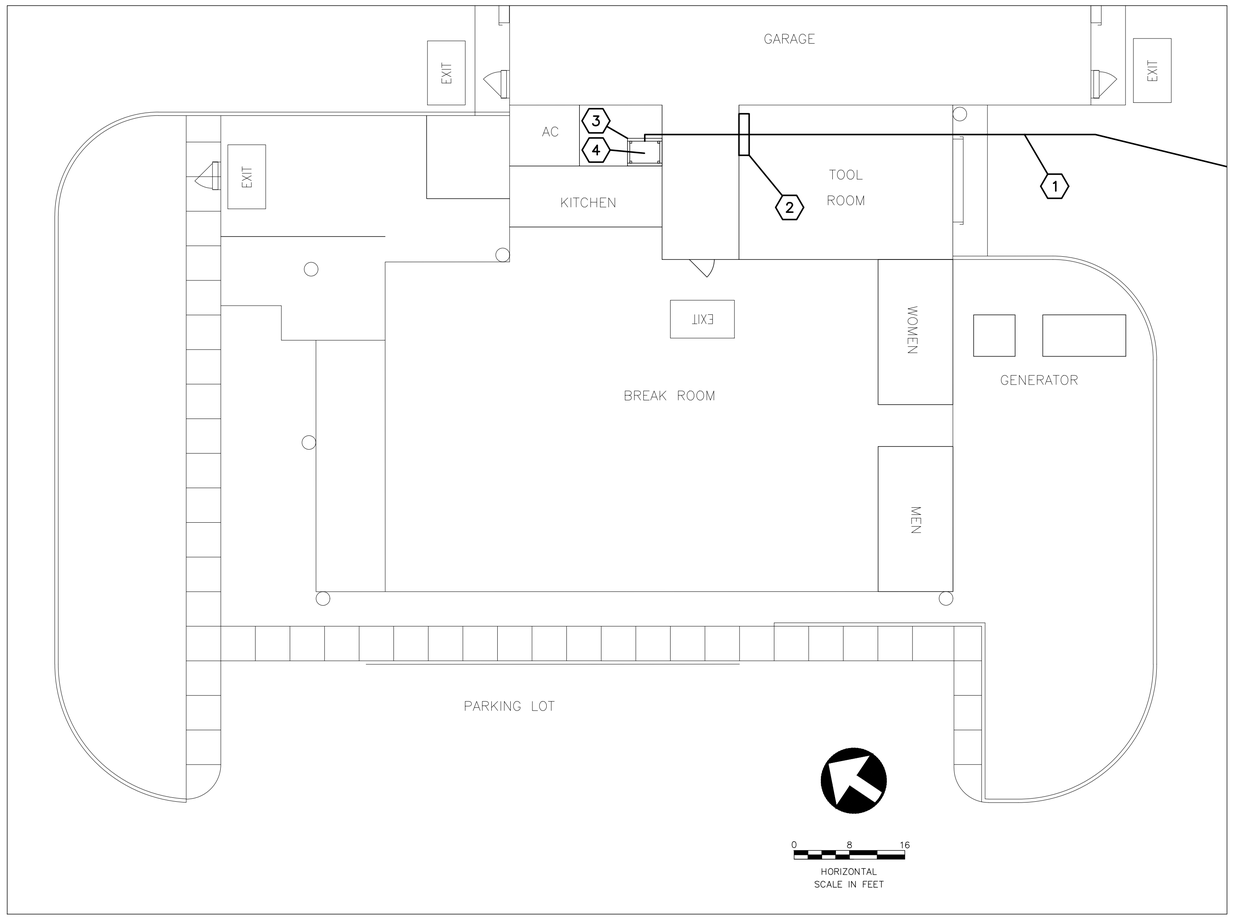
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CIP: 540007–100012
PID NUMBER: 99733

AERIAL CABLE SLACK STORAGE DETAIL

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

3378-E



FRANKLIN COUNTY ENGINEER WEST MAINTENANCE FACILITY – 4444 FISHER RD
FIRST FLOOR/SECOND FLOOR LAYOUT – PROPOSED COMMUNICATION CABLE PATH

NOTES:

1. SEE SHEET 643 FOR COMMUNICATIONS DIAGRAM.
2. SEE SHEET 102 FOR PLAN SHEET.

1. EXISTING 24 STRAND FOC PRE–TERMINATED DROP CABLE IN EXISTING 4" CONDUIT (CONNECTS TO SPLICE ENCLOSURE IN EXISTING PULL BOX)
2. EXISTING WALL MOUNTED JUNCTION BOX
3. EXISTING EQUIPMENT RACK
4. EXISTING 24 FIBER TERMINATION PANEL – 24 LC/UPC

CIP: 540007–100012
PID NUMBER: 99733

FRANKLIN COUNTY ENGINEER WEST MAINTENANCE FACILITY
PROPOSED COMMUNICATION CABLE PATH

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

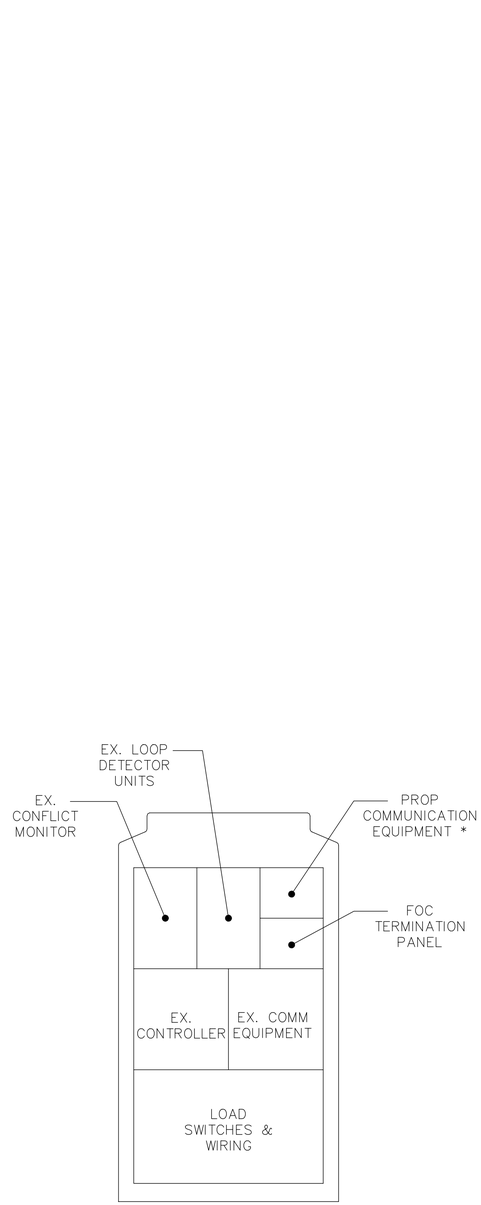
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915

3378-E

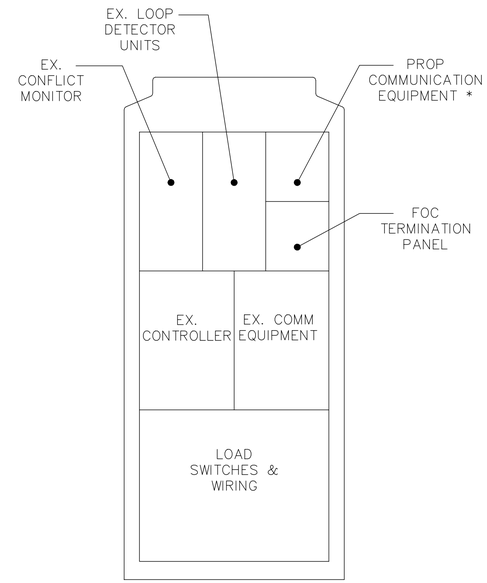
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TYPICAL DETAIL FOR "P" CABINET
44"W x 55" TALL



TYPICAL DETAIL FOR "M" CABINET
30"W x 50" TALL



TYPICAL DETAIL FOR "M STRETCH" CABINET
30"W x 68" TALL

* – EQUIPMENT MOUNTED TO BACK, SIDE OR SHELF IN EXISTING CABINET.

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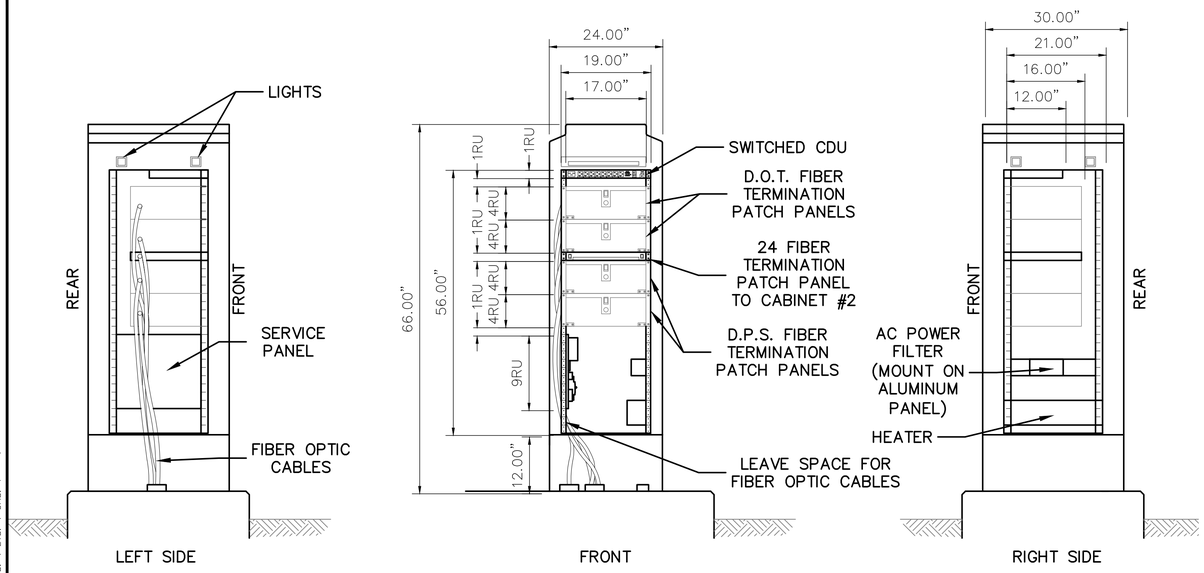
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

SIGNAL CABINET DETAILS
TYPICAL FOR "P" CABINET, "M" CABINET AND "M STRETCH" CABINET

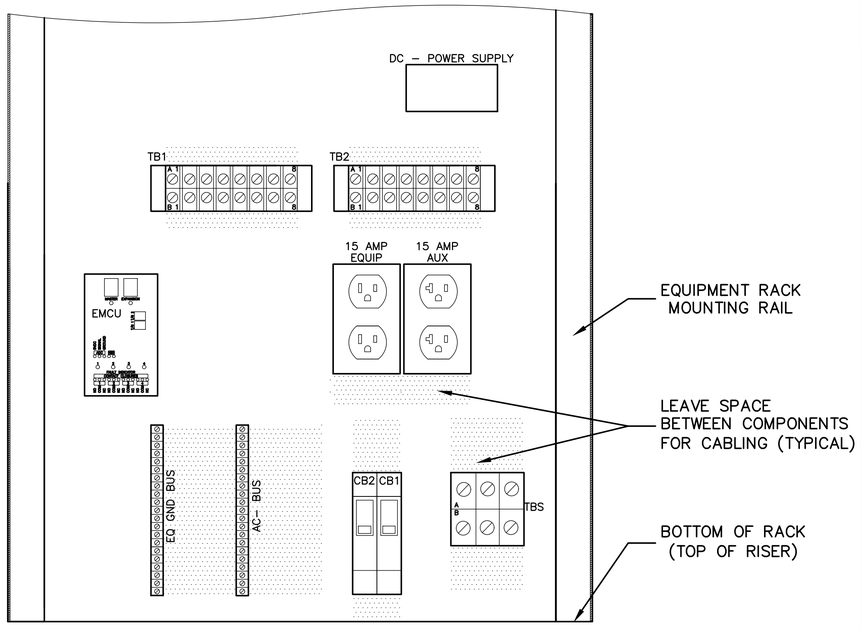
CIP: 540007-100012
PID NUMBER: 99733

3378-E

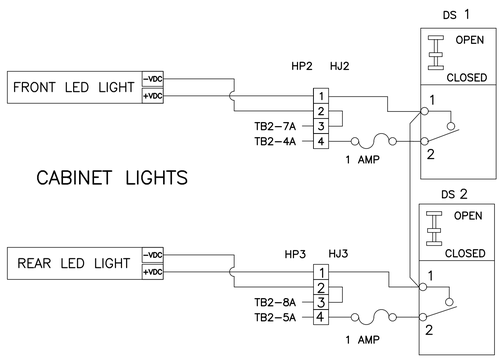
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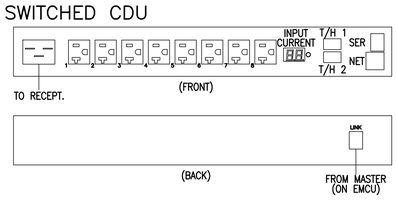


CABINET PROFILE

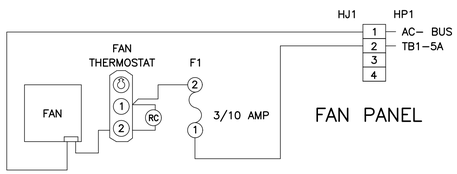


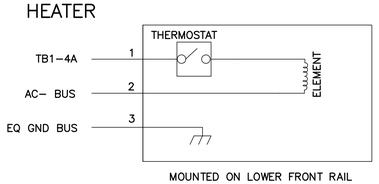
SERVICE PANEL – APPROXIMATE COMPONENT LAYOUT

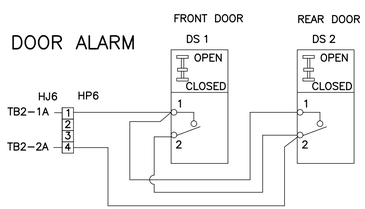


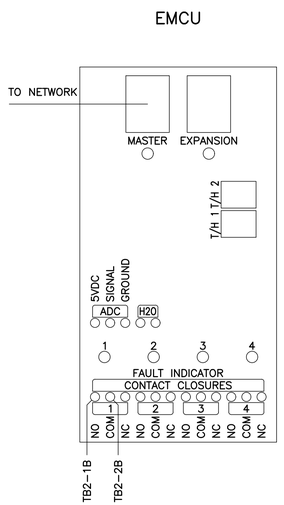


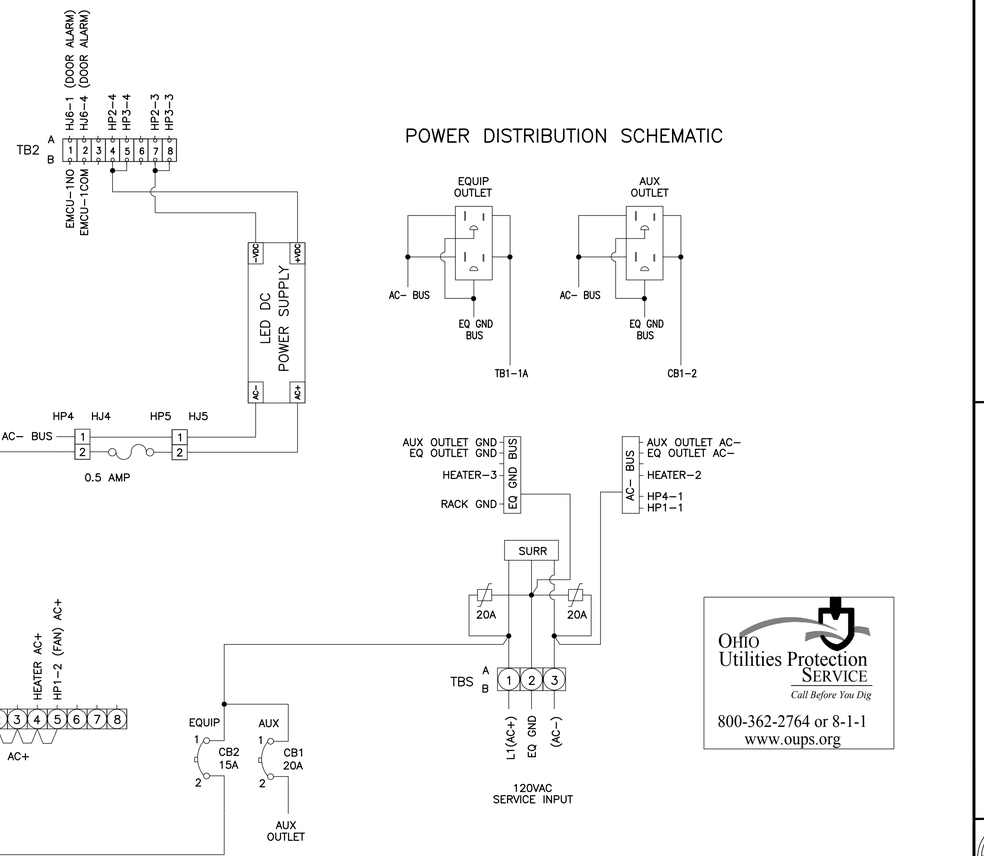
NOTE: 6 POSITION OUTLET STRIP PLUGS INTO OUTLET ON EQUIP. RACK SERVICE PANEL.











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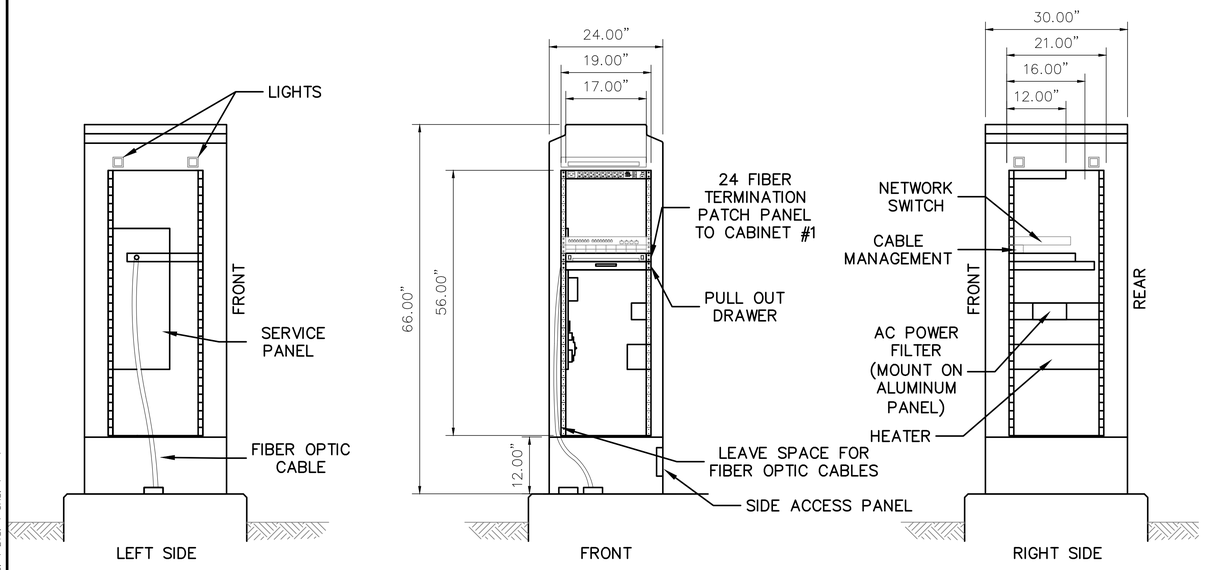
3378-E

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PID NUMBER: 99733

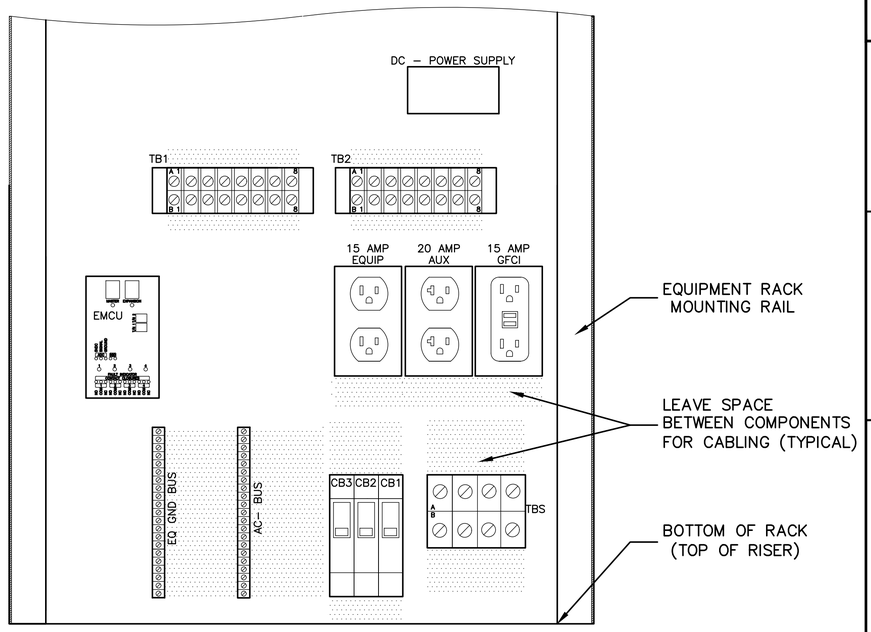
COMMUNICATIONS NODE
CABINET #1 LAYOUT

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

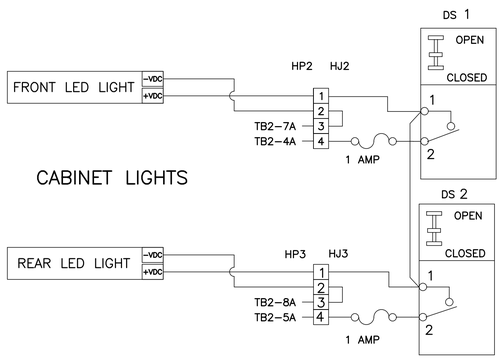
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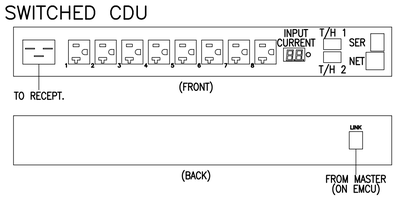


CABINET PROFILE

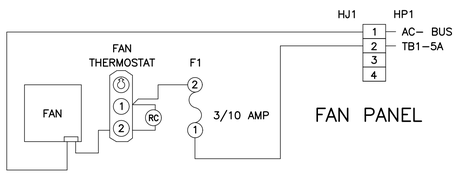


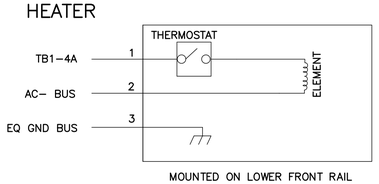
SERVICE PANEL – APPROXIMATE COMPONENT LAYOUT

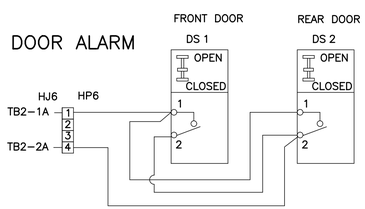


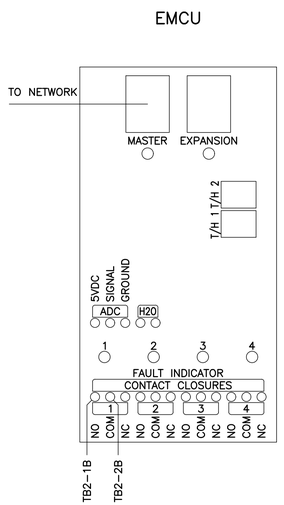


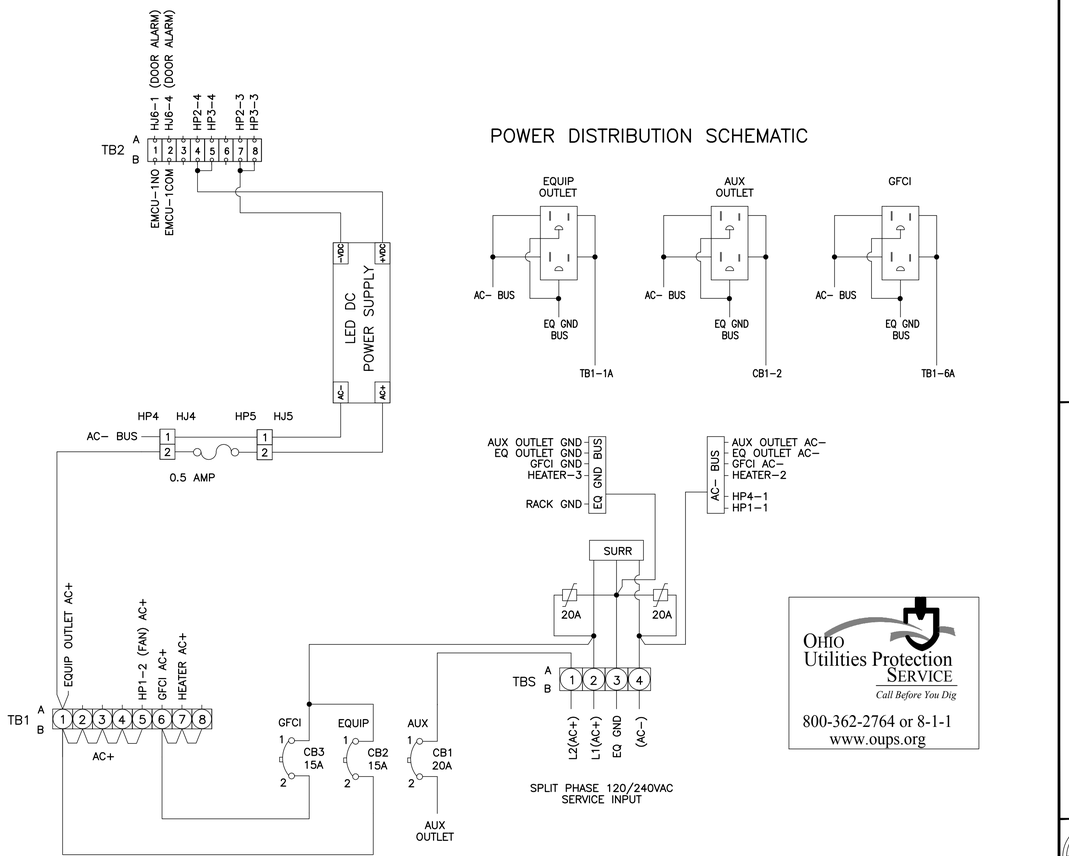
NOTE: 6 POSITION OUTLET STRIP PLUGS INTO OUTLET ON EQUIP. RACK SERVICE PANEL.











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3378-E

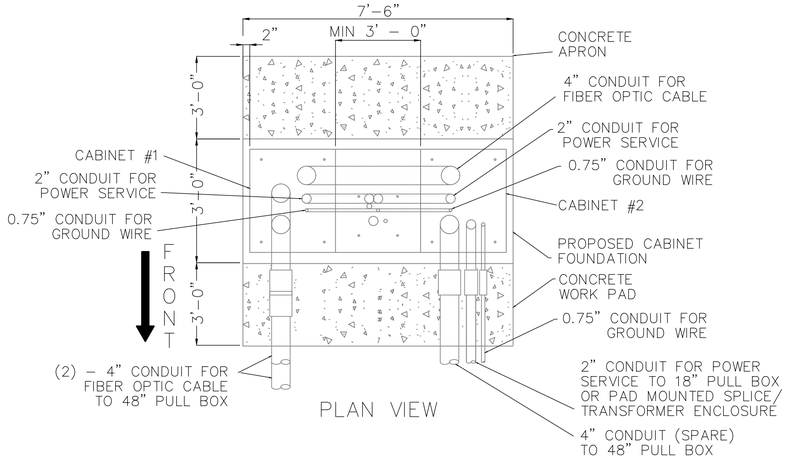
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PID NUMBER: 99733

COMMUNICATIONS NODE
CABINET #2 LAYOUT

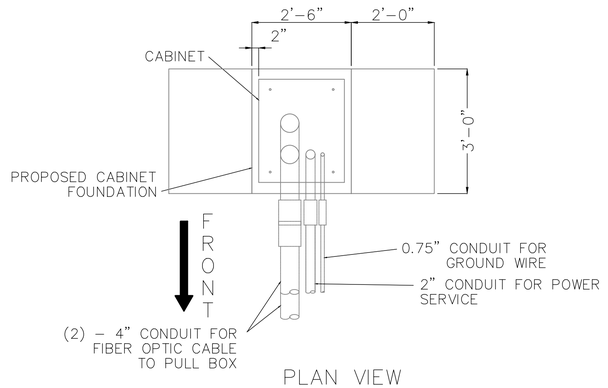
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

63
915

J:\Jobs\63721 ctss phase e\TECHPROD\Sheets\Details\ST_CTSS_002_Detail6.dwg – CABINET DETAILS 2 B layout ~ last saved by: gburch 08/30/2018 11:01am ~ printed 09/12/2018 08:23am PSLTS: 1 LTS: 1 CAS: 1" = 1'



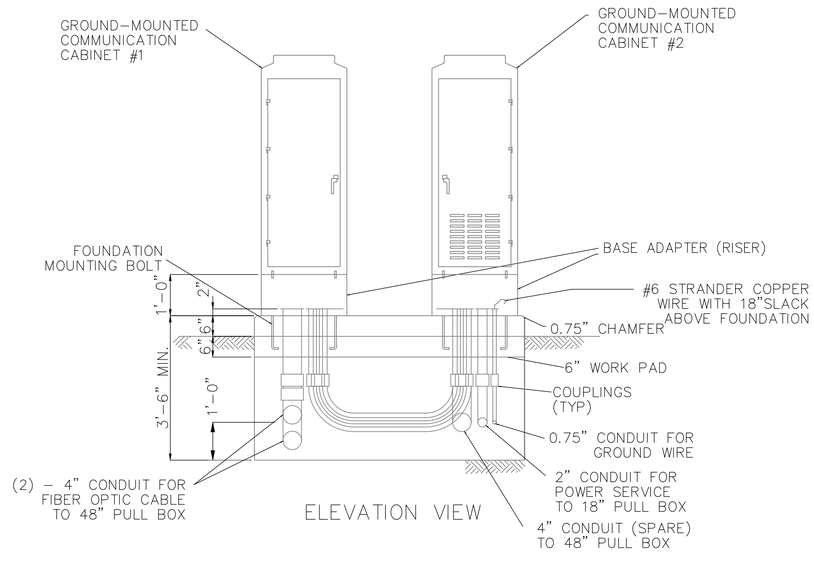
PLAN VIEW



PLAN VIEW

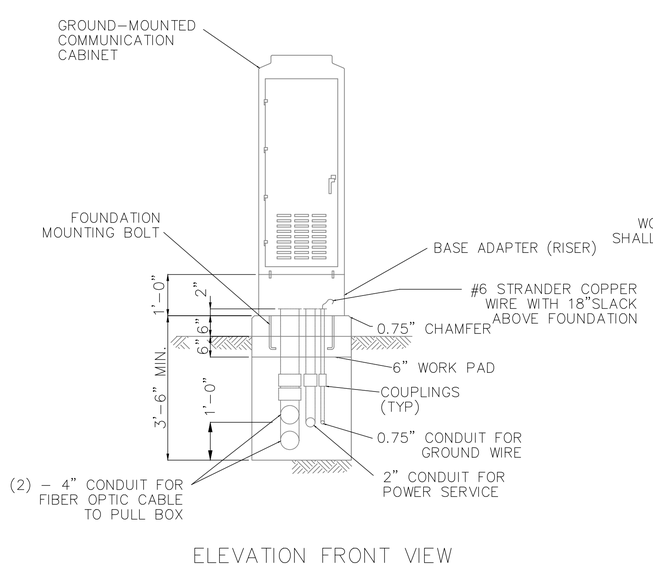
NOTES:

1. FOR 4" CONDUIT SWEEPS USE 36" BEND RADIUS.
2. FOR 0.75" AND 2" CONDUIT SWEEPS USE 24" BEND RADIUS.
3. CONDUIT SHALL TYPICALLY BE PVC SCH. 80 UNLESS OTHERWISE DIRECTED.
4. CABINET DOORS ARE TO BE POSITIONED AS TO NOT INTERFERE WITH CABINET DOORS OF ADJACENT CABINETS.
5. NOT TO SCALE.

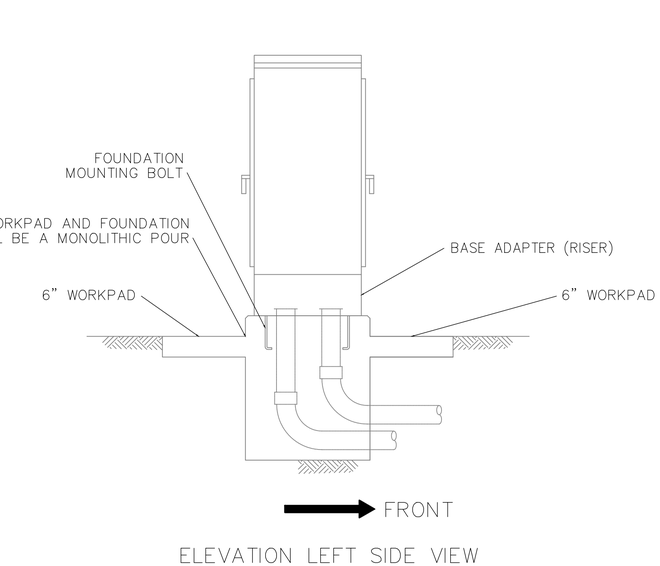


ELEVATION VIEW

DUAL 334 CABINET
COMMUNICATIONS NODE SITE



ELEVATION FRONT VIEW



ELEVATION LEFT SIDE VIEW

334 CABINET
FIBER ACCESS SITE

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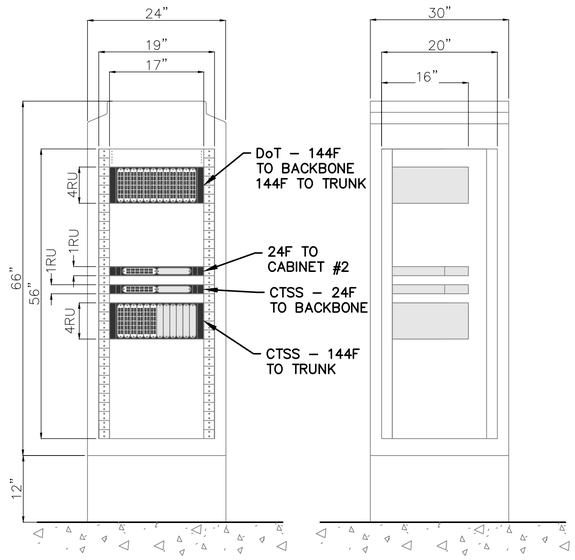
CIP: 540007-100012
PID NUMBER: 99733

COMMUNICATIONS NODE CABINET DETAILS

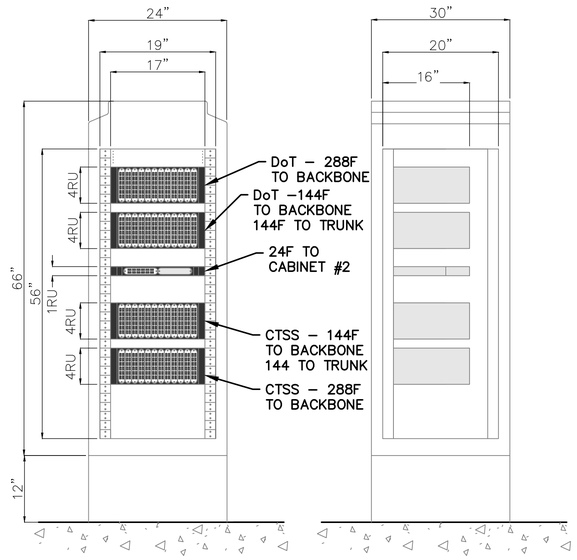
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E - FINAL SUBMITTAL

3378-E

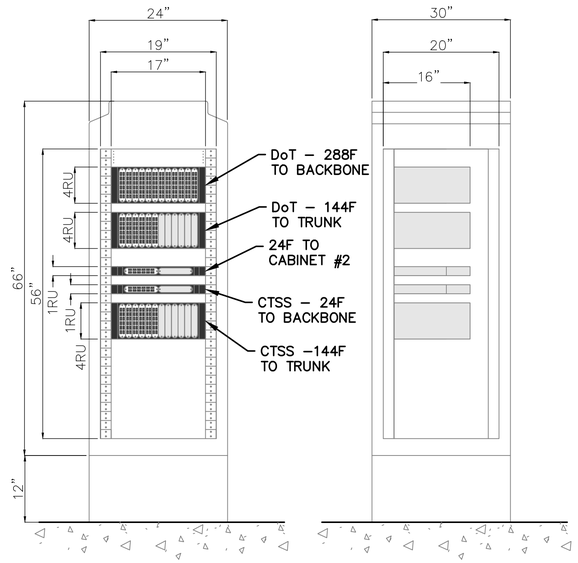
J:\Jobs\63721 ctss phase e\TECHPROD\Sheets\Details\ST_CTSS_002_Detail6.dwg - CABINET DETAILS 2 C layout ~ last saved by: gburch 08/30/2018 11:01am ~ printed 09/12/2018 08:23am PSLTS: 1 LTS: 1 CAS: 1" = 1'



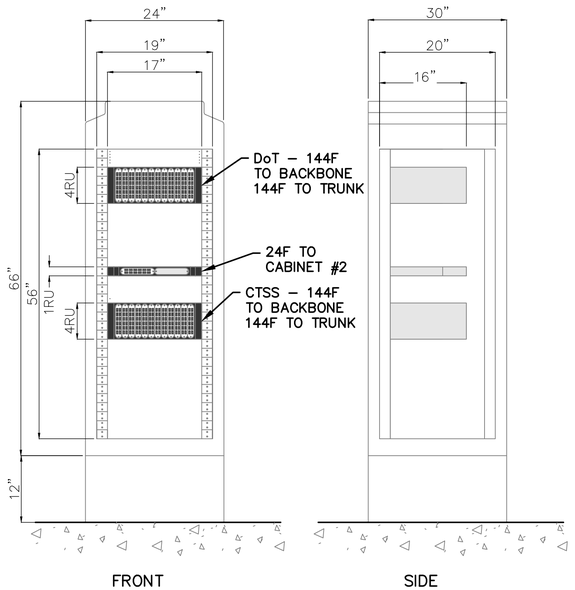
DETAIL 'A'



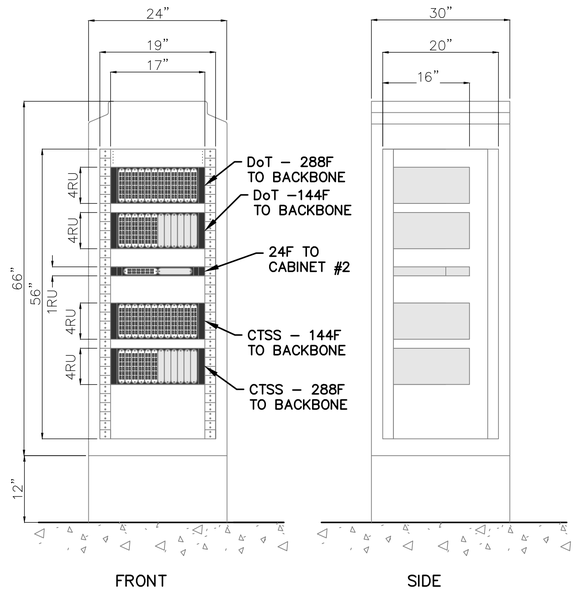
DETAIL 'B'



DETAIL 'C'



DETAIL 'D'



DETAIL 'E'

NODE SHEET INDEX

NODE #	MAJOR HIGHWAY	SECONDARY ROAD	PLAN SHEET #	COMM. SHEET #	DETAIL TYPE
270030.5	I–270	SR–161	585	899	E
070091.2	I–70	HILLIARD ROME RD	563	860	A
071104.0	I–71	SR–104	571	864	B
071105.4	I–71	GREENLAWN AVE	573	867	D
071121.4	I–71	POLARIS PKWY	596	870	C
071121.8	I–71	GEMINI PL	598	872	D
104091.0	SR–104	US–23	578	874	D
161043.8	SR–161	HAMILTON RD	587	876	C
161045.6	SR–161	NEW ALBANY RD	590	878	D

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NOTES

1. (1) RU = 1.75"
2. PATCH PANELS CAPABLE OF HOUSING TWELVE (12) HIGH DENSITY, DUPLEX LC–APC MODULES WITH 24F CAPACITY PER INSERT PLATE.
3. DoT – COLUMBUS DEPARTMENT OF TECHNOLOGY

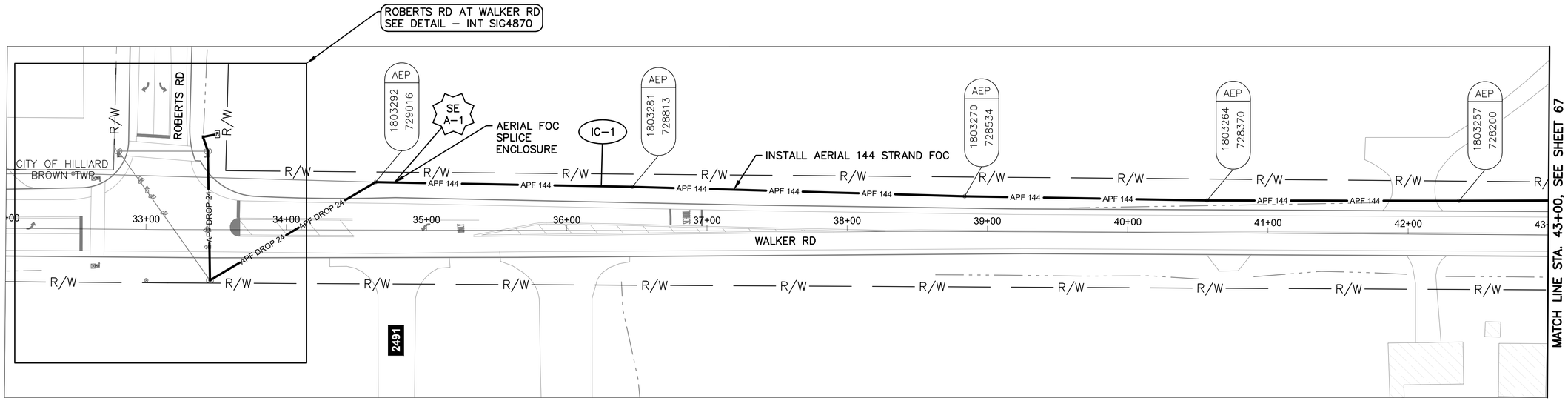
3378-E

COMMUNICATION NODE SHEET
TERMINATION PANEL INDEX

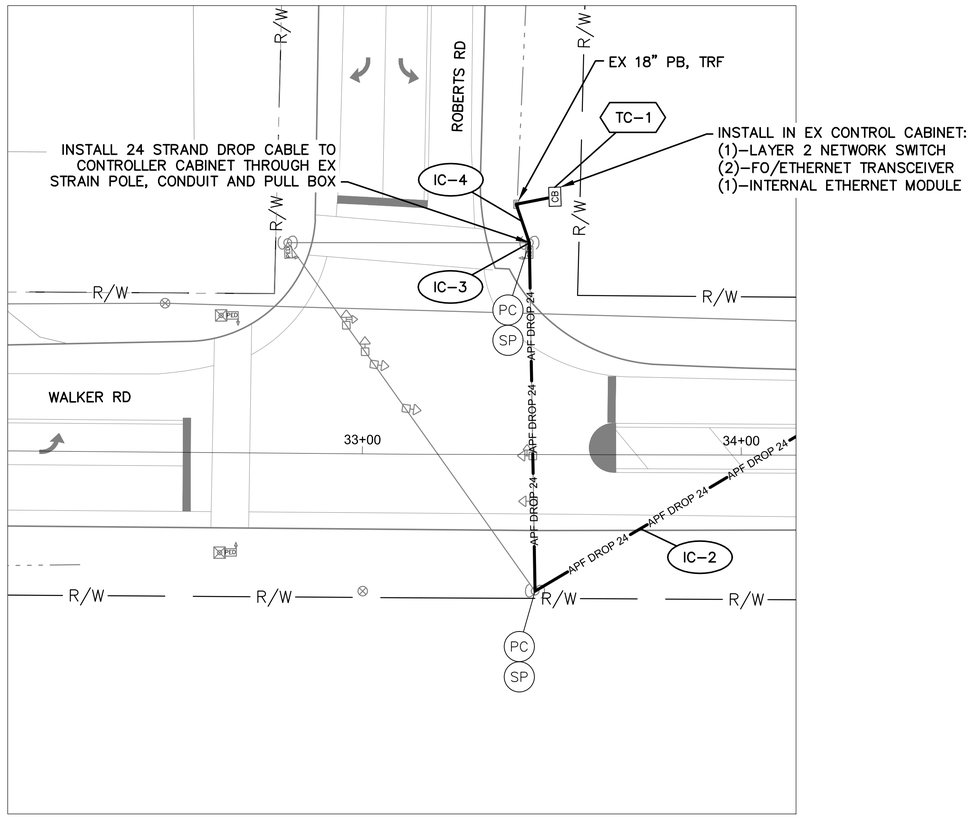
CIP: 540007–100012
PID NUMBER: 99733

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

J:\Jobs\63721 CTSS Phase E\TECHPROD\Sheets\Details\ST_CTSS_002_Detail6.dwg – CABINET DETAILS 4 layout ~ last saved by: rwegehaupt 10/01/2018 09:22am ~ printed 10/05/2018 10:13am PSLTS: 1 LTS: 1 CAS: 1" = 1'



WALKER RD BETWEEN STATION 32+00 AND 43+00



DETAIL - INT SIG4870

0 20 40
HORIZONTAL
SCALE IN FEET

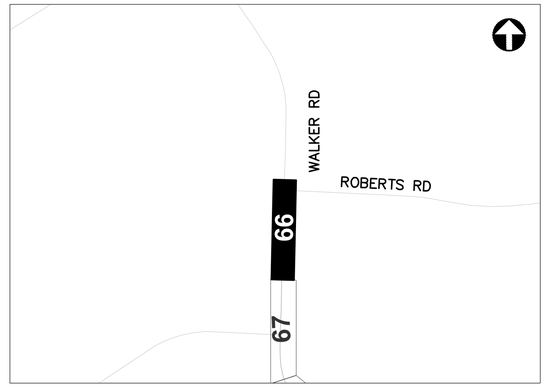
NOTES:

1. SEE SHEET 74 FOR QUANTITIES.
2. SEE SHEETS 611 & 634 FOR COMMUNICATION DETAILS.

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CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 9 FOR
INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

0 40 80
HORIZONTAL
SCALE IN FEET

CIP: 540007–100012
PID NUMBER: 99733

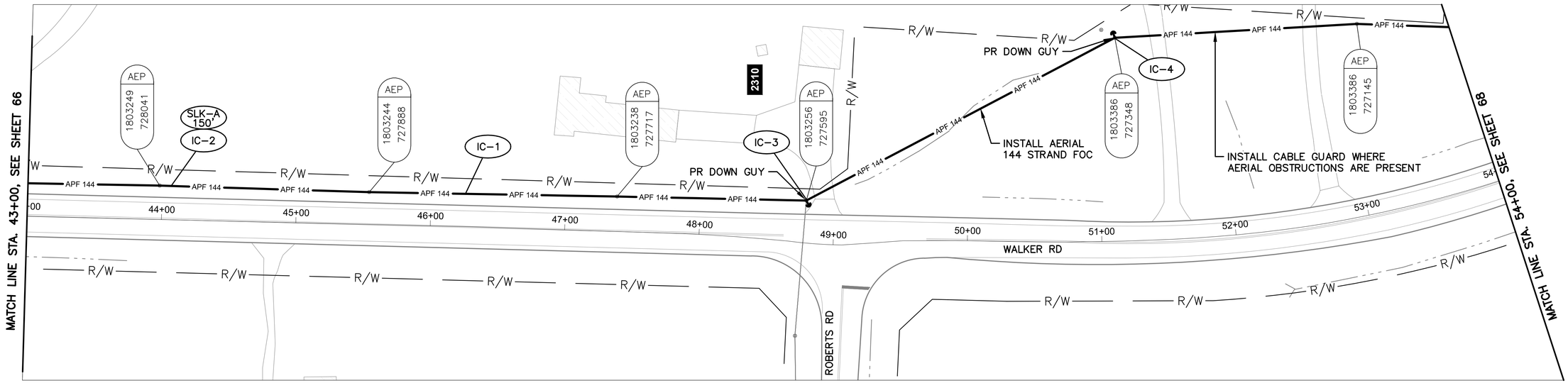
INTERCONNECT PLAN
WALKER RD BETWEEN STA. 32+00 AND 43+00, INT SIG4870

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

66
915

3378-E

J:\Jobs\63721 ctss phase e\TECHPROD\Sheets\CTSS_PhE_TrunkO_WALKER_INTERCONNECT.dwg ~ WALKER-2 layout ~ last saved by: rwegehaupt 08/22/2018 08:43am ~ printed 09/11/2018 04:16pm PSLTS: 1 LTS: 1 CAS: 1:1



WALKER RD BETWEEN STATION 43+00 AND 54+00

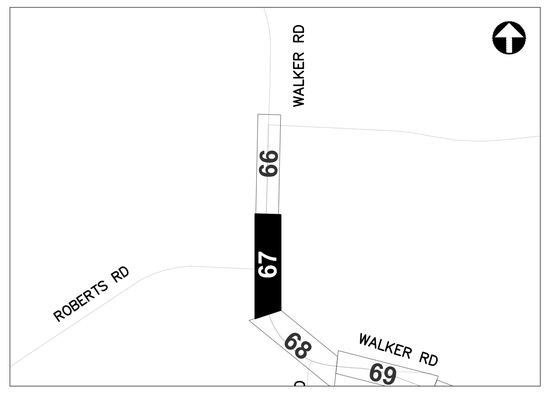
NOTES:

1. SEE SHEET 74 FOR QUANTITIES.
2. SEE SHEET 611 FOR COMMUNICATION DETAILS.

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CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 9 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

3378-E

HORIZONTAL SCALE IN FEET
0 40 80

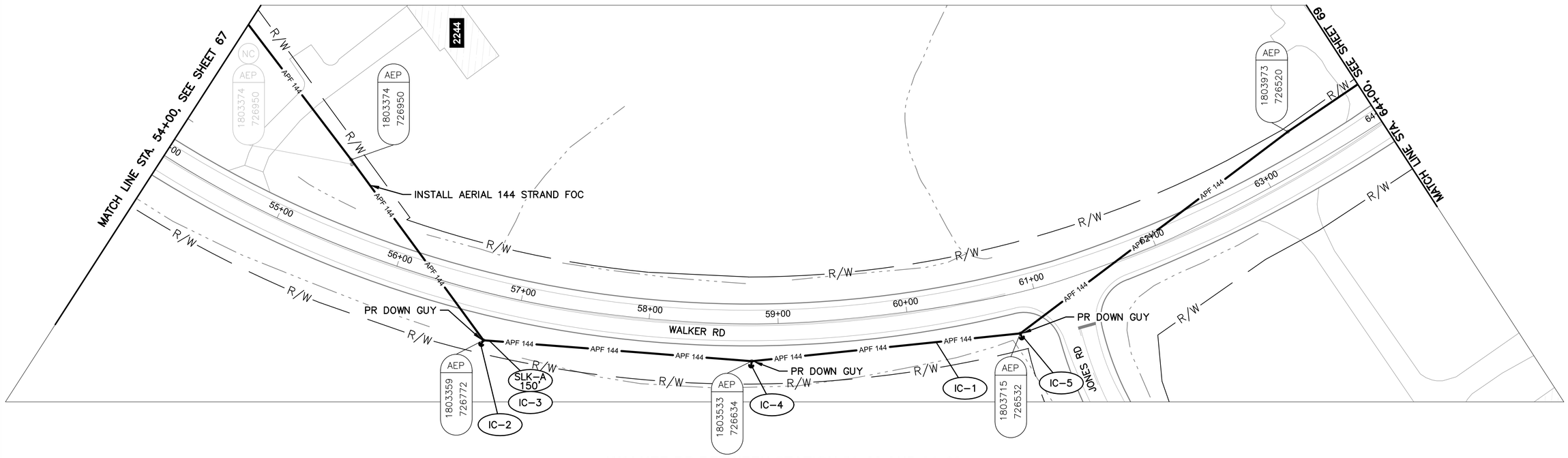
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PID NUMBER: 99733

INTERCONNECT PLAN
WALKER RD BETWEEN STA. 43+00 AND 54+00

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

67
915

J:\Jobs\63721 ctss phase e\TECHPROD\Sheets\CTSS_PhE_Trunk0_WALKER_INTERCONNECT.dwg – WALKER-3 layout ~ last saved by: rwegehaupt 08/22/2018 08:43am ~ printed 09/11/2018 04:18pm PSLTS: 1 LTS: 1 CAS: 1:1



WALKER RD BETWEEN STATION 54+00 AND 64+00

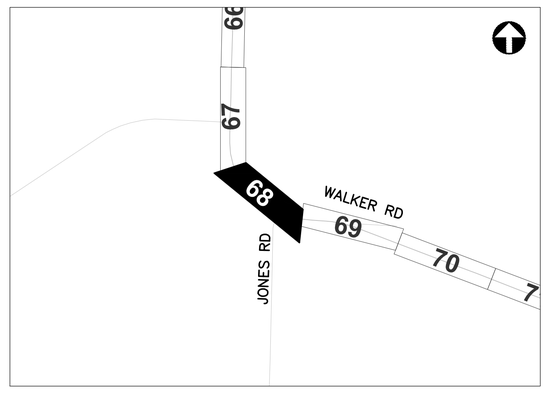
NOTES:

1. SEE SHEET 74 FOR QUANTITIES.
2. SEE SHEET 611 FOR COMMUNICATION DETAILS.

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CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 9 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

3378-E

HORIZONTAL SCALE IN FEET
0 40 80

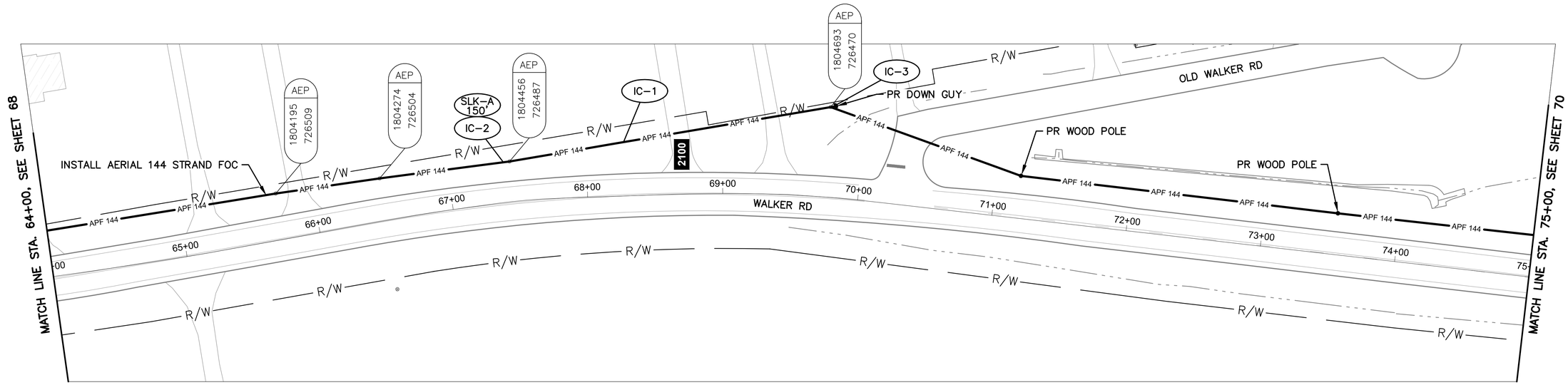
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PID NUMBER: 99733

INTERCONNECT PLAN
WALKER RD BETWEEN STA. 54+00 AND 64+00

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

68
915

J:\Jobs\63721 ctss phase e\TECHPROD\Sheets\CTSS_PhE_Trunk0_WALKER_INTERCONNECT.dwg – WALKER-4 layout ~ last saved by: rwegehaupt 08/22/2018 08:43am ~ printed 09/11/2018 04:19pm PSLTS: 1 LTS: 1 CAS: 1:1



WALKER RD BETWEEN STATION 64+00 AND 75+00

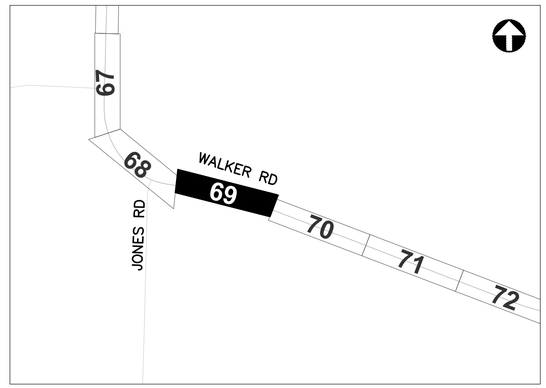
NOTES:

1. SEE SHEET 74 FOR QUANTITIES.
2. SEE SHEET 611 FOR COMMUNICATION DETAILS.

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CITY OF COLUMBUS UTILITY LEGEND

- ☒ SEWER
- ☒ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 9 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

3378-E

HORIZONTAL SCALE IN FEET
0 40 80

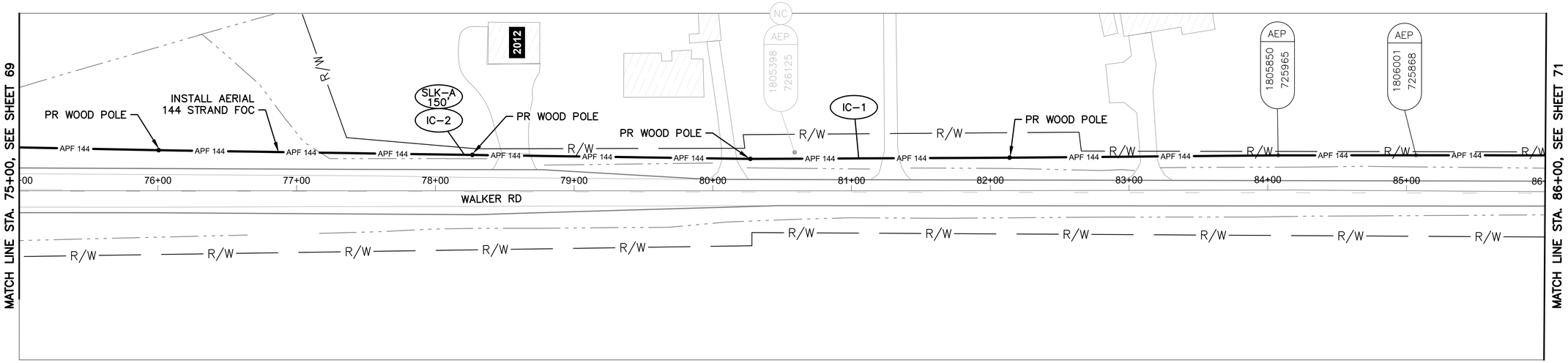
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PID NUMBER: 99733

INTERCONNECT PLAN
WALKER RD BETWEEN STA. 64+00 AND 75+00

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

69
915

J:\Jobs\63721 ctss phase e\TECHPROD\Sheets\CTSS_PhE_Trunk0_WALKER_INTERCONNECT.dwg – WALKER-5 layout ~ last saved by: rwegehaupt 08/22/2018 08:43am ~ printed 09/11/2018 04:21pm PSLTS: 1 LTS: 1 CAS: 1:1



WALKER RD BETWEEN STATION 75+00 AND 86+00

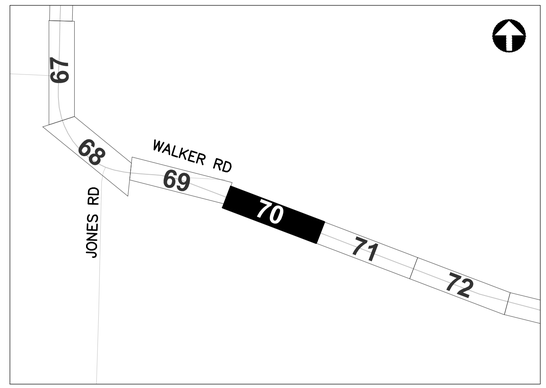
NOTES:

1. SEE SHEET 74 FOR QUANTITIES.
2. SEE SHEET 611 FOR COMMUNICATION DETAILS.

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CITY OF COLUMBUS UTILITY LEGEND

- ☒ SEWER
- ☒ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 9 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

3378-E

HORIZONTAL SCALE IN FEET
0 40 80

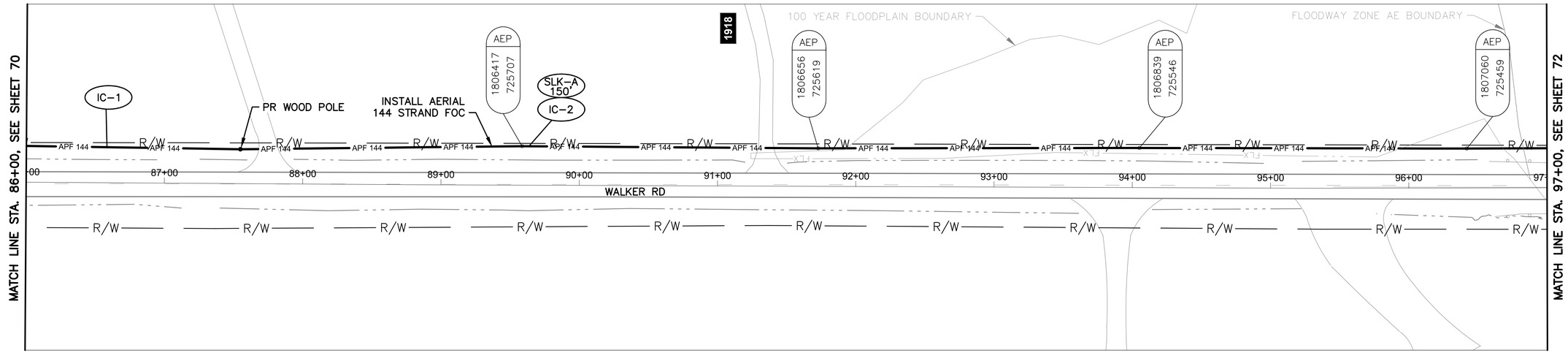
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INTERCONNECT PLAN
WALKER RD BETWEEN STA. 75+00 AND 86+00

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

70
915

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WALKER RD BETWEEN STATION 86+00 AND 97+00

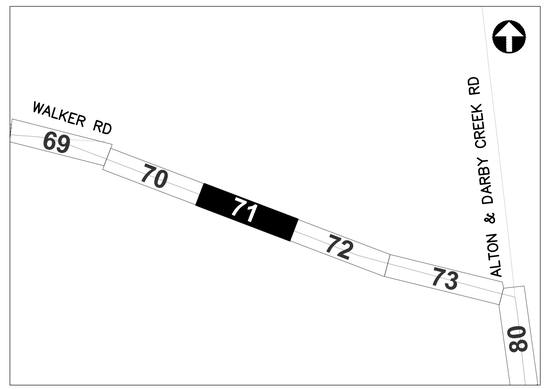
NOTES:

1. SEE SHEET 74 FOR QUANTITIES.
2. SEE SHEET 611 FOR COMMUNICATION DETAILS.

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CITY OF COLUMBUS UTILITY LEGEND

- ☒ SEWER
- ☒ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 9 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

3378-E

HORIZONTAL SCALE IN FEET
0 40 80

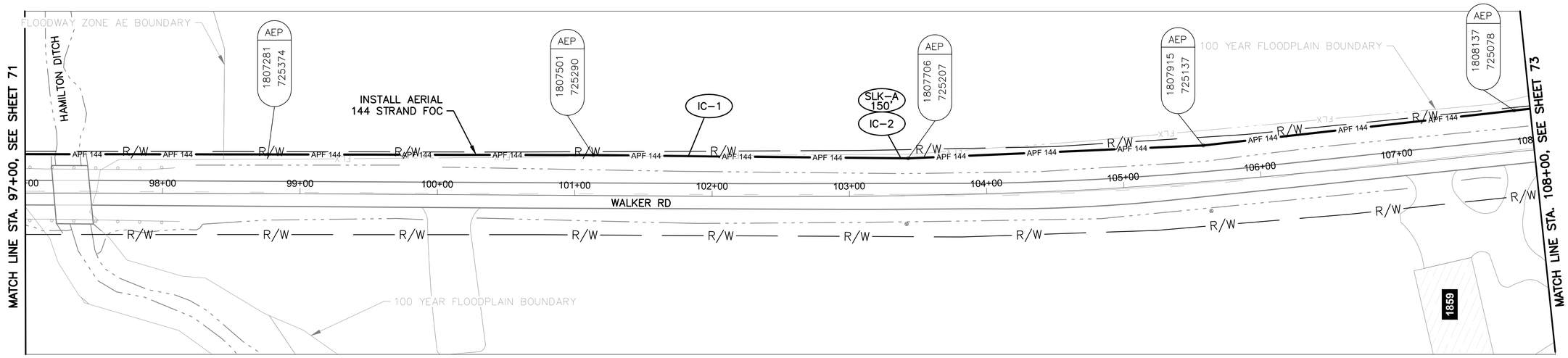
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PID NUMBER: 99733

INTERCONNECT PLAN
WALKER RD BETWEEN STA. 86+00 AND 97+00

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

71
915

J:\Jobs\63721 ctss phase e\TECHPROD\Sheets\CTSS_PhE_Trunk0_WALKER_INTERCONNECT.dwg – WALKER-7 layout ~ last saved by: rwegehaupt 08/22/2018 08:43am ~ printed 09/11/2018 04:24pm PSLTS: 1 LTS: 1 CAS: 1:1



WALKER RD BETWEEN STATION 97+00 AND 108+00

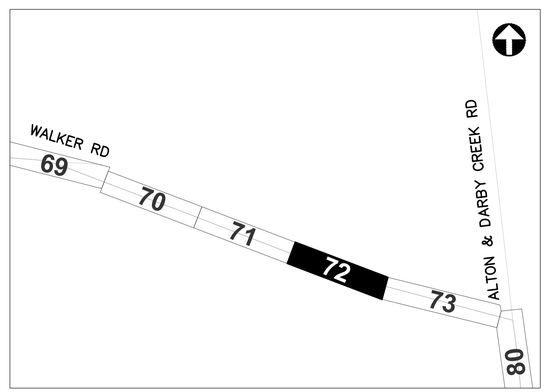
NOTES:

1. SEE SHEET 74 FOR QUANTITIES.
2. SEE SHEET 611 FOR COMMUNICATION DETAILS.

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CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 9 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

3378-E

HORIZONTAL SCALE IN FEET
0 40 80

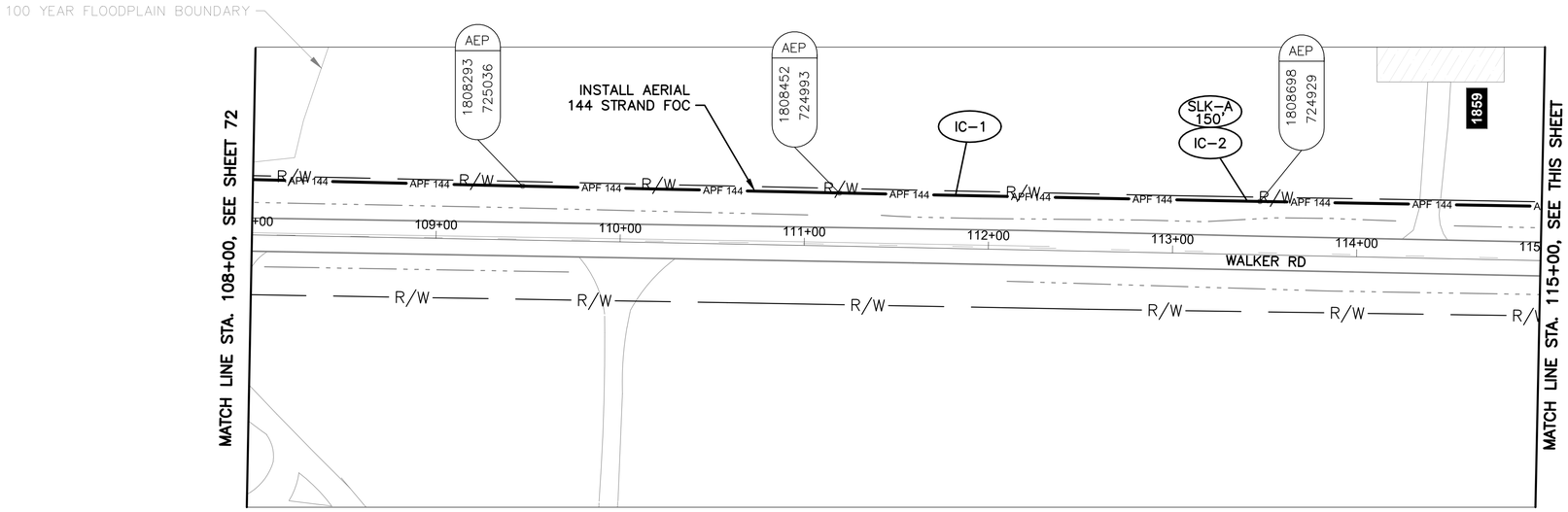
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PID NUMBER: 99733

INTERCONNECT PLAN
WALKER RD BETWEEN STA. 97+00 AND 108+00

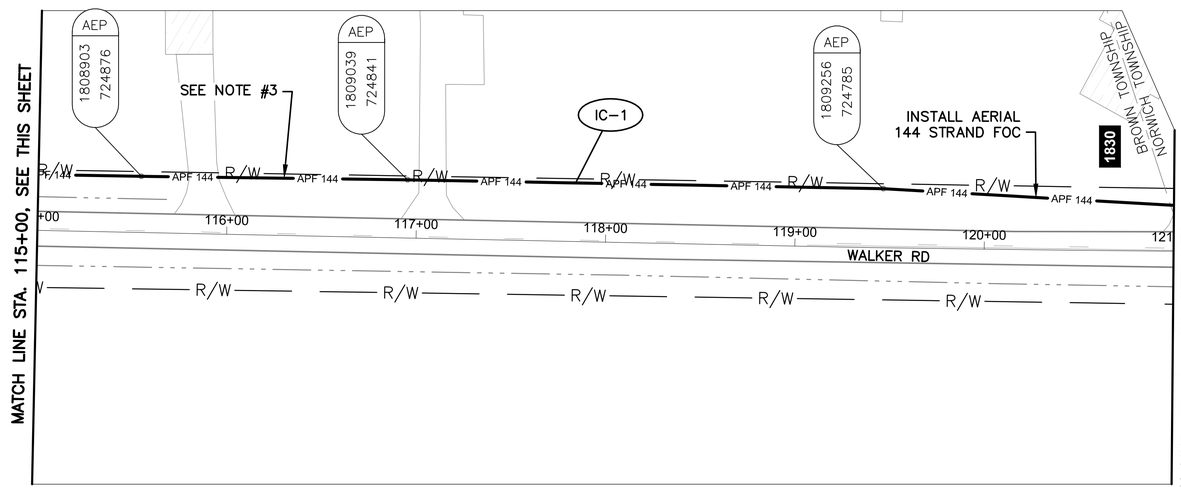
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

72
915

J:\Jobs\63721 ctss phase e\TECHPROD\Sheets\CTSS_PhE_Trunk0_WALKER_INTERCONNECT.dwg – WALKER-8 layout ~ last saved by rwegehaupt 08/22/2018 08:43am ~ printed 09/11/2018 04:26pm PSLTS: 1 LTS: 1 CAS: 1:1



WALKER RD BETWEEN STATION 108+00 AND 115+00



WALKER RD BETWEEN STATION 115+00 AND 121+00

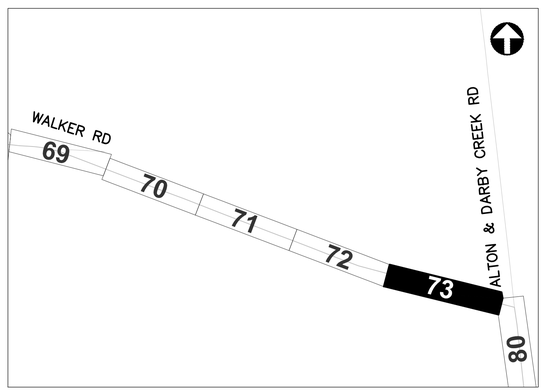
NOTES:

1. SEE SHEET 74 FOR QUANTITIES.
2. SEE SHEET 611 FOR COMMUNICATION DETAILS.
3. INSTALL CABLE GUARD WHERE AERIAL OBSTRUCTIONS ARE PRESENT.

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CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 9 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

HORIZONTAL SCALE IN FEET
0 40 80

CIP: 540007–100012
PID NUMBER: 99733

INTERCONNECT PLAN
WALKER RD BETWEEN STA. 108+00 AND 121+00

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

3378-E

73
915

J:\Jobs\63721 ctss phase e\TECHPROD\Sheets\CTSS_PhE_Trunk0_WALKER_INTERCONNECT.dwg – WALKER–9 layout ~ last saved by: rwegehaupt 08/22/2018 08:43am ~ printed 09/11/2018 04:28pm PSLTS: 1 LTS: 1 CAS: 1:1

ESTIMATED QUANTITIES

SHEET NO.	REFERENCE NO.	LOCATION	STATION		202	632	632	632	632	632	632	632	632	633	633	633								
					EXISTING CONDUIT CLEANED, AS PER PLAN	DOWN GUY	INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 144 STRAND	INTERCONNECT CABLE, MISC.: FIBER OPTIC DROP CABLE, 24 STRAND	INTERCONNECT CABLE, MISC.: FIBER OPTIC FUSION SPLICE	INTERCONNECT CABLE, MISC.: TERMINATION PANEL, 24 FIBER	INTERCONNECT, MISC.: SPLICE ENCLOSURE, CLAMSHELL, 288 SPLICE	MESSENGER WIRE, 7 STRAND, 1/4" DIAMETER WITH ACCESSORIES, AS PER PLAN	WOOD POLE, CLASS 5, 35 FT	CONTROLLER ITEM, MISC.: FIBER OPTIC ETHERNET TRANSCEIVER, SHORT RANGE	CONTROLLER ITEM, MISC.: INTERNAL ETHERNET MODULE	CONTROLLER ITEM, MISC.: LAYER 2 ETHERNET SWITCH							
			FROM	TO	FT	EACH	FT	FT	EACH	EACH	EACH	FT	EACH	EACH	EACH	EACH								
WALKER RD. BETWEEN STA. 32+00 AND 43+00, INT SIG4870																								
66	IC-3	WALKER RD	33+43, 56' LT					35																
66	IC-4	WALKER RD	33+43, 56' LT	33+50, 68' LT	21			21																
66	IC-2	WALKER RD	33+43, 56' LT	34+63, 34' LT				232				232												
66	TC-1	WALKER RD	33+50, 68' LT					10		1				2	1	1								
66	SE A-1	WALKER RD	34+63, 34' LT				75	125	12		1													
66	IC-1	WALKER RD	34+63, 34' LT	43+00, 25' LT			850					850												
WALKER RD. BETWEEN STA. 43+00 AND 54+00																								
67	IC-1	WALKER RD	43+00, 25' LT	54+00, 120' LT			1,103					1,103												
67	IC-2	WALKER RD	44+06, 25' LT				150																	
67	IC-3	WALKER RD	48+79, 32' LT			1																		
67	IC-4	WALKER RD	51+12, 151' LT			1																		
WALKER RD. BETWEEN STA. 54+00 AND 64+00																								
68	IC-1	WALKER RD	54+00, 120' LT	64+00, 34' LT			1,063					1,063												
68	IC-2	WALKER RD	56+79, 36' RT			1																		
68	IC-3	WALKER RD	56+82, 36' RT				150																	
68	IC-4	WALKER RD	58+79, 29' RT			1																		
68	IC-5	WALKER RD	60+82, 31' RT			1																		
WALKER RD. BETWEEN STA. 64+00 AND 75+00																								
69	IC-1	WALKER RD	64+00, 34' LT	75+00, 31' LT			1,136					1,136	2											
69	IC-2	WALKER RD	67+40, 30' LT				150																	
69	IC-3	WALKER RD	69+74, 67' LT			1																		
WALKER RD. BETWEEN STA. 75+00 AND 86+00																								
70	IC-1	WALKER RD	75+00, 31' LT	86+00, 26' LT			1,117					1,117	4											
70	IC-2	WALKER RD	78+21, 26' LT				150																	
WALKER RD. BETWEEN STA. 86+00 AND 97+00																								
71	IC-1	WALKER RD	86+00, 26' LT	97+00, 29' LT			1,117					1,117	1											
71	IC-2	WALKER RD	89+63, 28' LT				150																	
WALKER RD. BETWEEN STA. 97+00 AND 108+00																								
72	IC-1	WALKER RD	97+00, 29' LT	108+00, 30' LT			1,113					1,113												
72	IC-2	WALKER RD	103+38, 27' LT				150																	
WALKER RD. BETWEEN STA. 108+00 AND 121+00																								
73	IC-1	WALKER RD	108+00, 30' LT	121+00, 24' LT			1,320					1,320												
73	IC-2	WALKER RD	113+40, 29' LT				150																	
SHEET TOTAL					21	6	9,944	423	12	1	1	9,051	7	2	1	1	-	-	-	-	-	-	-	-

AERIAL SAG: 1.5% AERIAL SAG IS INCLUDED IN THE QUANTITIES FOR ANY AERIAL FIBER OR CABLE ITEMS.

3378-E

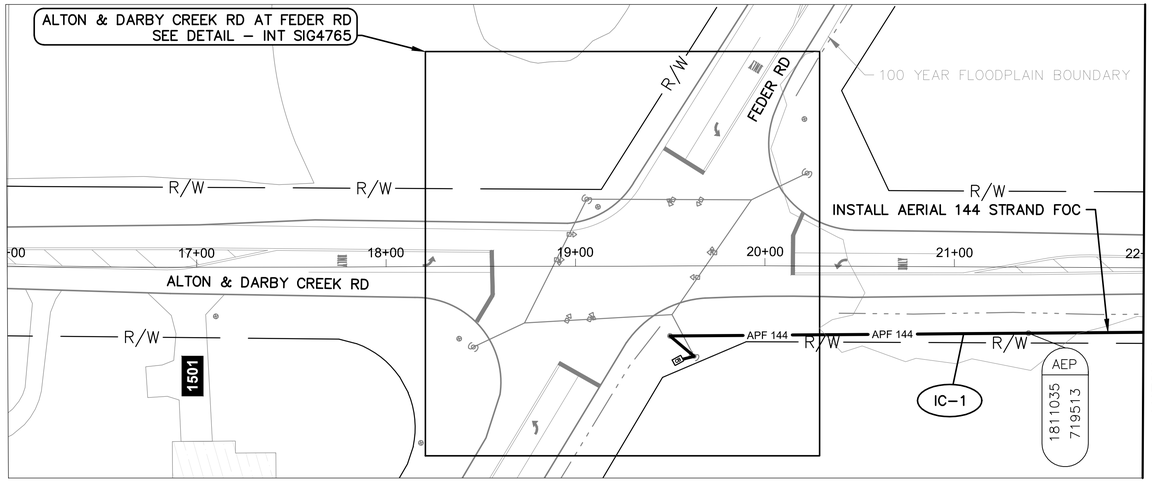
CIP: 540007-100012
PID NUMBER: 99733

WALKER RD BETWEEN STA. 32+00 & 121+00
INT SIG4870

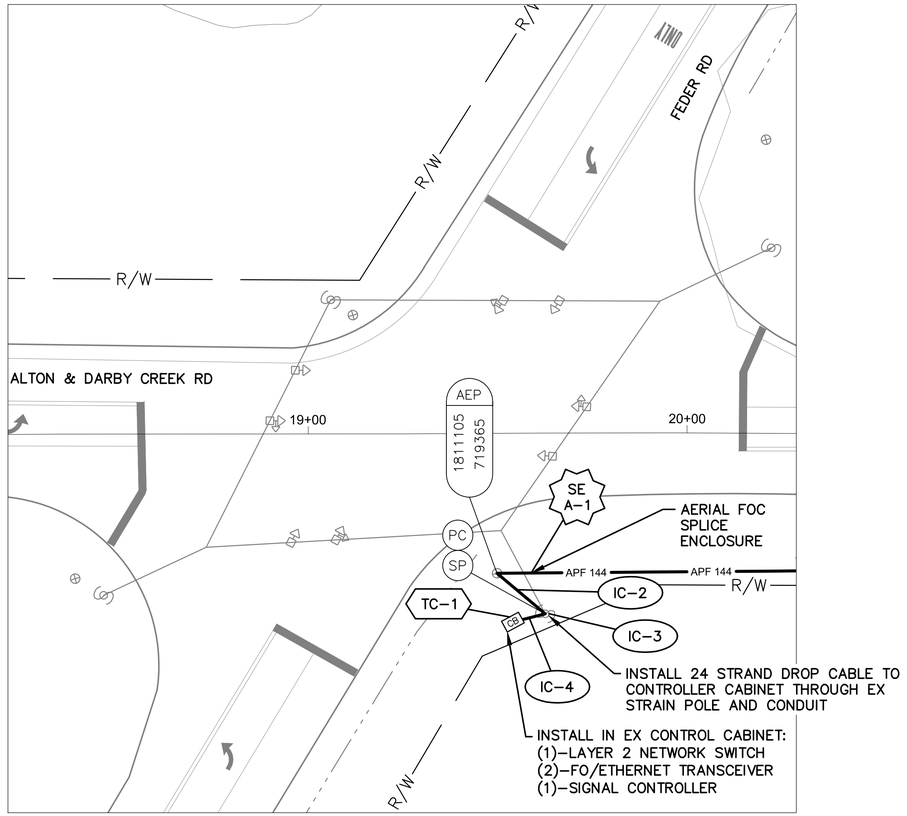
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

74
915

J:\Jobs\63721 CTSS Phase E\TECHPROD\Sheets\CTSS_PhE_TrunkO_WALKER_JC_QUANTITIES.dwg ~ WALKER-Q1 layout ~ last saved by: gburch 09/28/2017 10:10am ~ printed 09/18/2018 09:33am PS:TS: 1 LTS: 1 CAS: 1:1



ALTON & DARBY CREEK RD BETWEEN STATION 16+00 AND 22+00



DETAIL - INT SIG4765

0 20 40
HORIZONTAL
SCALE IN FEET

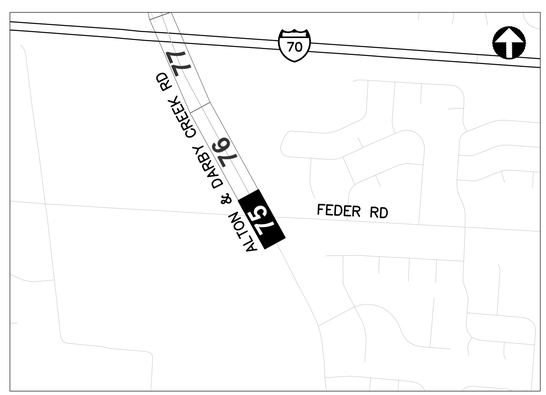
NOTES:

1. SEE SHEET 81 FOR QUANTITIES.
2. SEE SHEETS 611 & 637 FOR COMMUNICATION DETAILS.

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CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 9 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

0 40 80
HORIZONTAL
SCALE IN FEET

CIP: 540007–100012
PID NUMBER: 99733

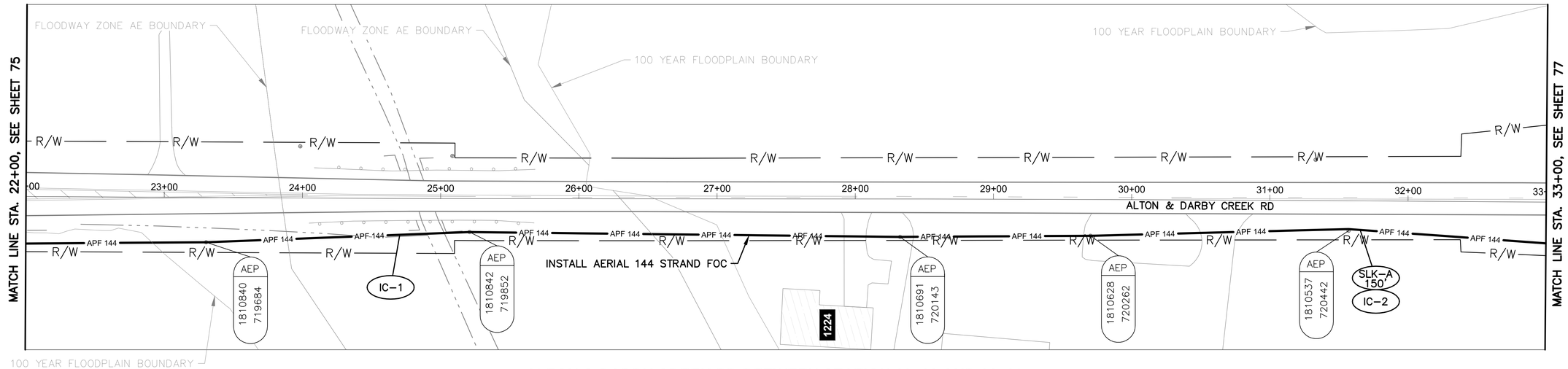
INTERCONNECT PLAN
ALTON & DARBY CREEK RD BETWEEN STA. 16+00 AND 22+00, INT SIG4765

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

75
915

3378-E

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ALTON & DARBY CREEK RD BETWEEN STATION 22+00 AND 33+00

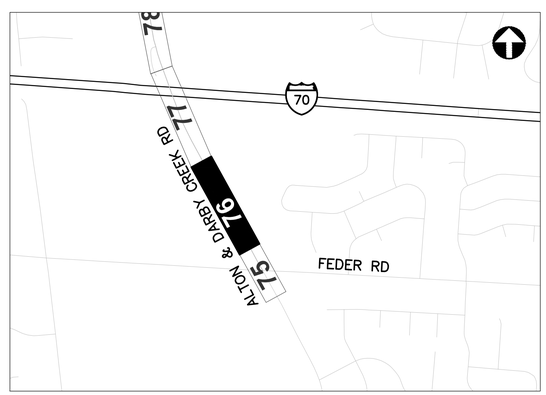
NOTES:

1. SEE SHEET 81 FOR QUANTITIES.
2. SEE SHEET 611 FOR COMMUNICATION DETAILS.

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CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 9 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

3378-E

HORIZONTAL SCALE IN FEET
0 40 80

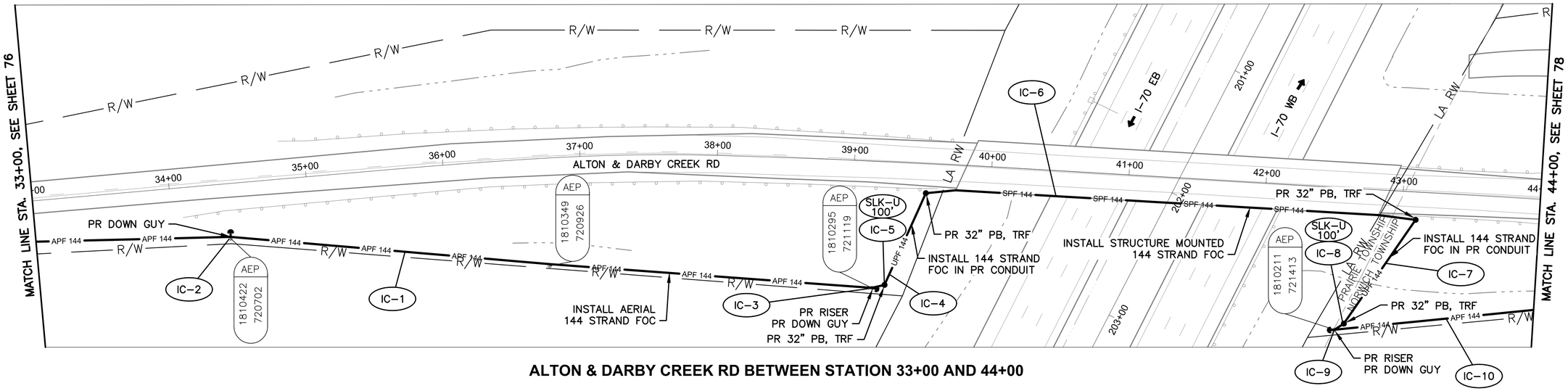
CIP: 540007-100012
PID NUMBER: 99733

INTERCONNECT PLAN
ALTON & DARBY CREEK RD BETWEEN STA. 22+00 AND 33+00

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

76
915

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ALTON & DARBY CREEK RD BETWEEN STATION 33+00 AND 44+00

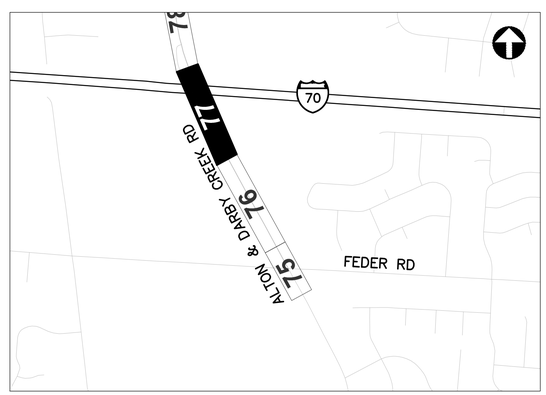
NOTES:

1. SEE SHEET 81 FOR QUANTITIES.
2. SEE SHEET 611 FOR COMMUNICATION DETAILS.

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CITY OF COLUMBUS UTILITY LEGEND

- ☒ SEWER
- ☒ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 9 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

HORIZONTAL SCALE IN FEET
0 40 80

CIP: 540007-100012
PID NUMBER: 99733

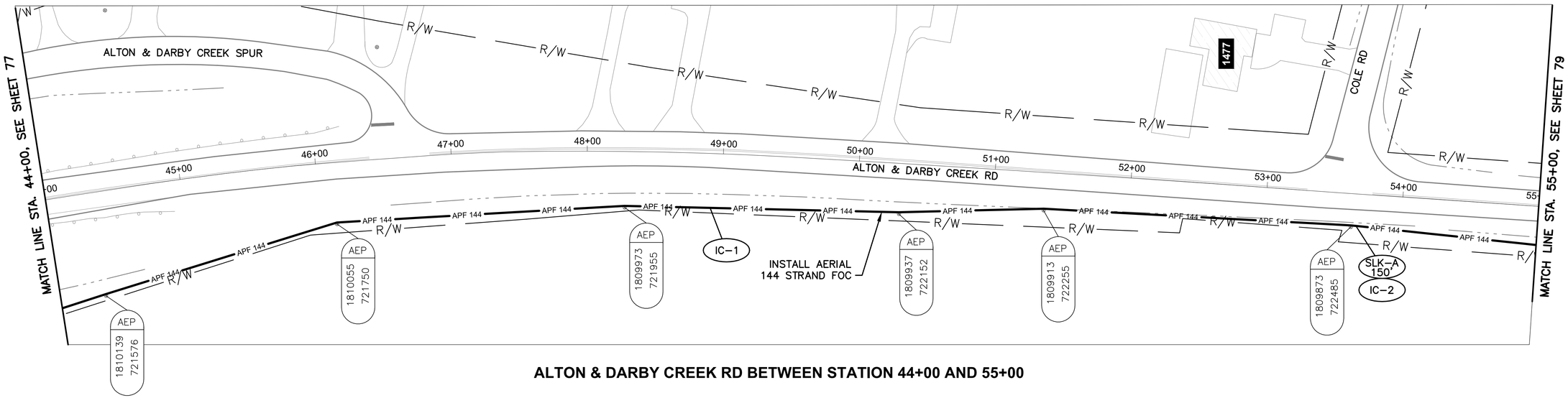
INTERCONNECT PLAN
ALTON & DARBY CREEK RD BETWEEN STA. 33+00 AND 44+00

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

77
915

3378-E

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ALTON & DARBY CREEK RD BETWEEN STATION 44+00 AND 55+00

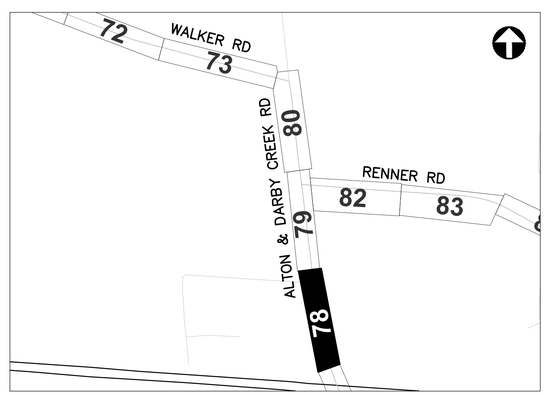
NOTES:

1. SEE SHEET 81 FOR QUANTITIES.
2. SEE SHEET 611 FOR COMMUNICATION DETAILS.

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CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 9 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

3378-E

HORIZONTAL SCALE IN FEET
0 40 80

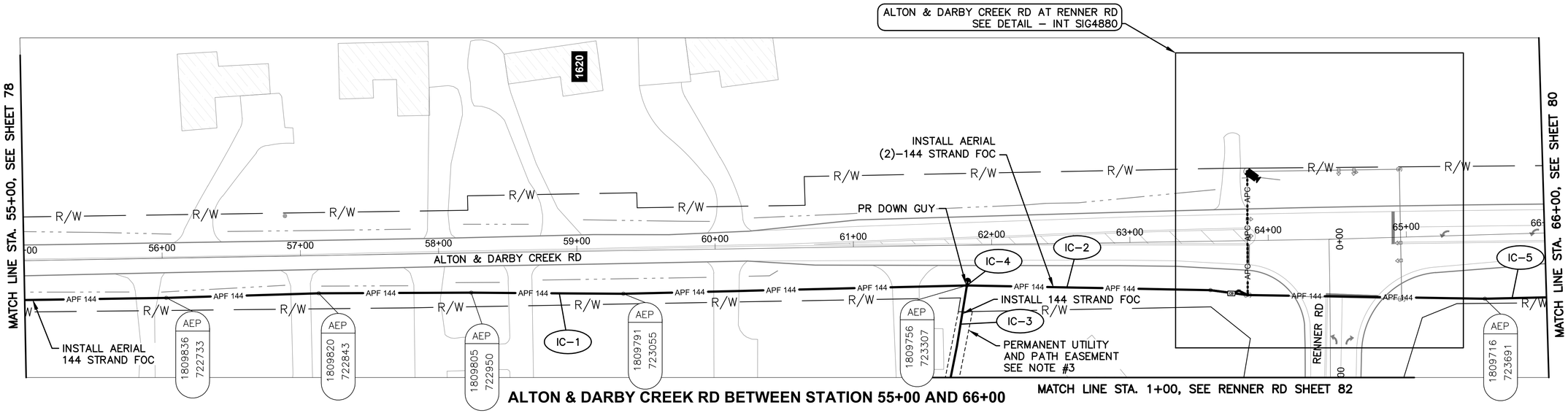
CIP: 540007-100012
PID NUMBER: 99733

INTERCONNECT PLAN
ALTON & DARBY CREEK RD BETWEEN STA. 44+00 AND 55+00

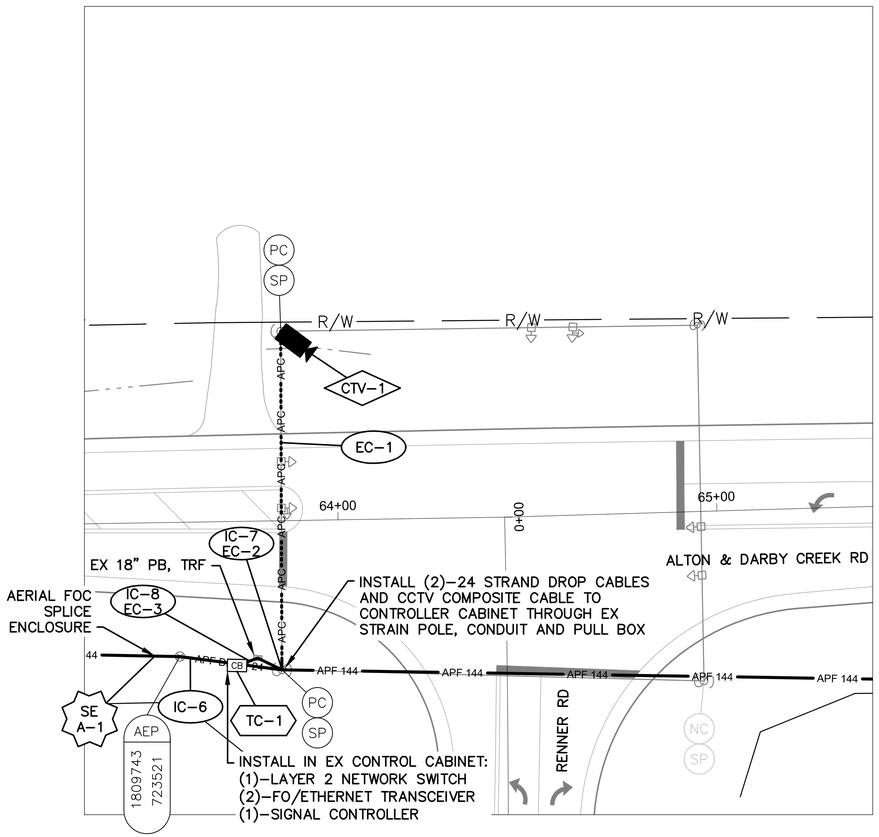
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

78
915

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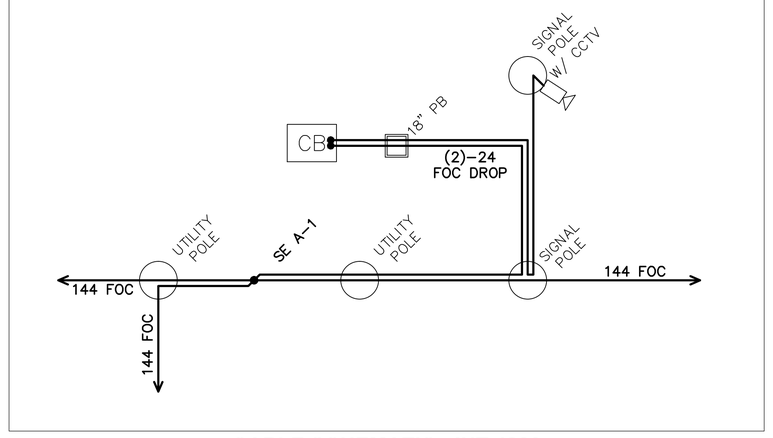


ALTON & DARBY CREEK RD BETWEEN STATION 55+00 AND 66+00



DETAIL - INT SIG4880

0 20 40
HORIZONTAL
SCALE IN FEET



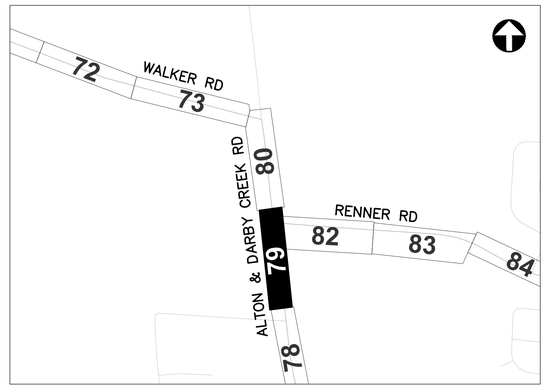
CABLE SCHEMATIC - INT 4880
NOT TO SCALE

NOTES:

1. SEE SHEET 81 FOR QUANTITIES.
2. SEE SHEETS 611 & 636 FOR COMMUNICATION DETAILS.
3. EXISTING POLE LINE EAST OF ALTON DARBY CREEK RD AND SOUTH OF RENNER RD IS DESCRIBED UNDER EASEMENT VOL 2494, PAGES 330 & 331, INSTRUMENT #196307240015069.

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CITY OF COLUMBUS
UTILITY LEGEND
- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 9 FOR
INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

0 40 80
HORIZONTAL
SCALE IN FEET

CIP: 540007–100012
PID NUMBER: 99733

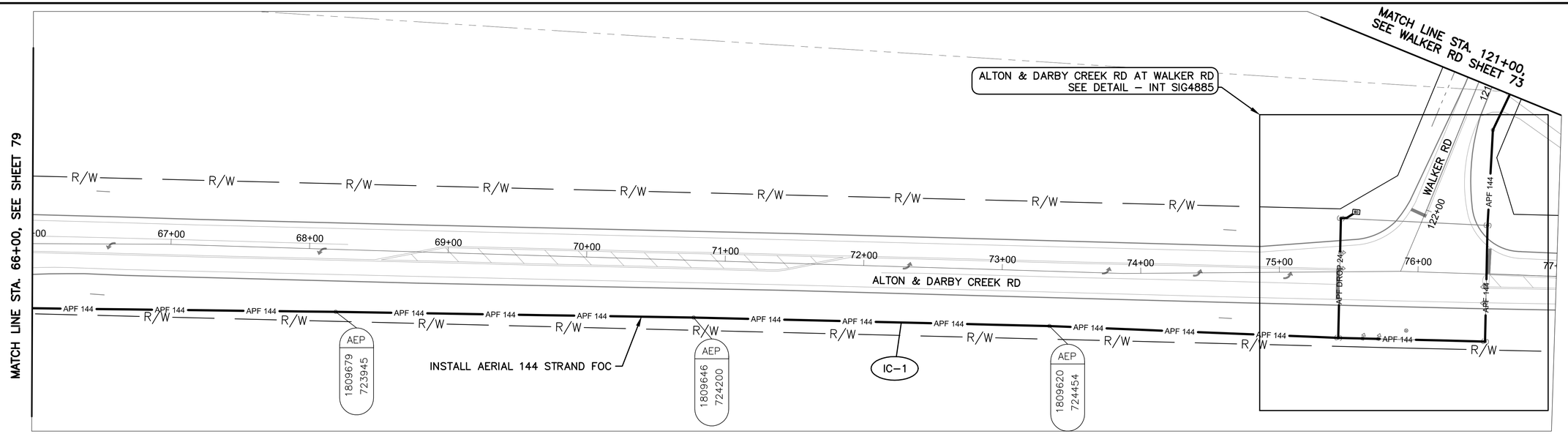
INTERCONNECT PLAN
ALTON & DARBY CREEK RD BETWEEN STA. 55+00 AND 66+00, INT SIG4880

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

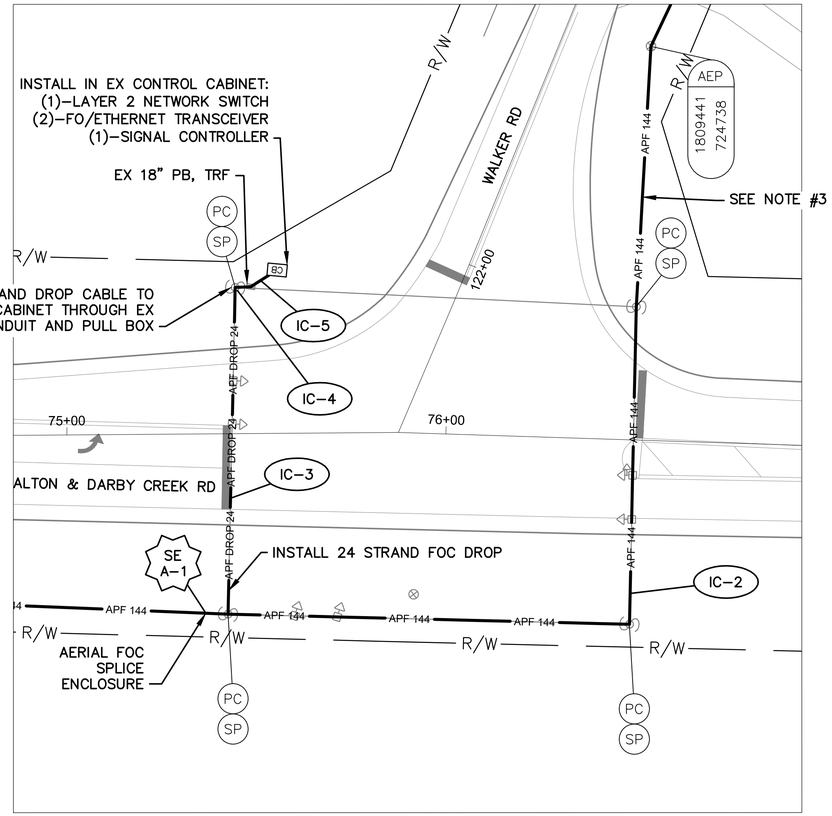
3378-E

79
915

J:\Jobs\63721 ctss phase e\TECHPROD\Sheets\CTSS_PhE_TrunkO_ALTON_DARBY_CREEK_INTERCONNECT.dwg – ALTON_DARBY_CREEK–6 layout ~ last saved by: rwegehaupt 08/22/2018 09:34am ~ printed 09/11/2018 04:39pm PSLTS: 1 LTS: 1 CAS: 1:1



ALTON & DARBY CREEK RD BETWEEN STATION 66+00 AND 77+00



DETAIL - INT SIG4885

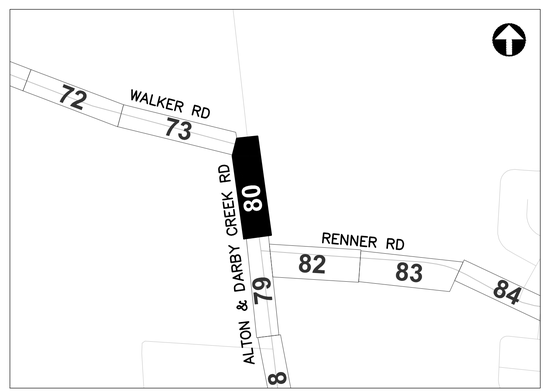
0 20 40
HORIZONTAL SCALE IN FEET

NOTES:

1. SEE SHEET 81 FOR QUANTITIES.
2. SEE SHEETS 611 & 635 FOR COMMUNICATION DETAILS.
3. INSTALL CABLE GUARD WHERE AERIAL OBSTRUCTIONS ARE PRESENT.

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www.oups.org

CITY OF COLUMBUS UTILITY LEGEND
- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 9 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

0 40 80
HORIZONTAL SCALE IN FEET

CIP: 540007–100012
PID NUMBER: 99733

INTERCONNECT PLAN
ALTON & DARBY CREEK RD BETWEEN STA. 66+00 AND 77+00, INT SIG4885

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

3378-E

80
915

J:\Jobs\63721 ctss phase e\TECHPROD\Sheets\CTSS_PhE_Trunk0_ALTON_DARBY_CREEK_INTERCONNECT.dwg – ALTON_DARBY_CREEK-7 layout ~ last saved by: rwegehaupt 08/22/2018 09:34am ~ printed 09/11/2018 04:42pm PSLTS: 1 LTS: 1 CAS: 1:1

ESTIMATED QUANTITIES

SHEET NO.	REFERENCE NO.	LOCATION	STATION		202	625	625	625	625	632	632	632	632	632	632	632	632	632	633	633	633		
					EXISTING CONDUIT CLEANED, AS PER PLAN	CONDUIT, CONCRETE ENCASED, 2-3", 725.05, AS PER PLAN	CONDUIT, MISC.: 4" CONDUIT, FIBER-GLASS REINFORCED, ATTACHED TO STRUCTURE	PULL BOX, CONCRETE 32", AS PER PLAN	TRENCH, 36" DEEP, AS PER PLAN	CONDUIT RISER, 2", 725.04, AS PER PLAN	DOWN GUY	INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 144 STRAND	INTERCONNECT CABLE, MISC.: FIBER OPTIC DROP CABLE, 24 STRAND	INTERCONNECT CABLE, MISC.: FIBER OPTIC FUSION SPLICE	INTERCONNECT CABLE, MISC.: TERMINATION PANEL, 24 FIBER	INTERCONNECT, MISC.: SPLICE ENCLOSURE, CLAMSHELL, 288 SPLICE	MESSENGER WIRE, 7 STRAND, 1/4" DIAMETER WITH ACCESSORIES, AS PER PLAN	SIGNALIZATION, MISC.: CCTV COMPOSITE CABLE	SIGNALIZATION, MISC.: CCTV IP-CAMERA SYSTEM	CONTROLLER ITEM, MISC.: FIBER OPTIC ETHERNET TRANSCEIVER, SHORT RANGE	CONTROLLER ITEM, MISC.: LAYER 2 ETHERNET SWITCH	CONTROLLER UNIT, TYPE TS2/A2, AS PER PLAN		
			FROM	TO	FT	FT	FT	EACH	FT	EACH	EACH	FT	FT	EACH	EACH	EACH	FT	FT	EACH	EACH	EACH	EACH		
ALTON & DARBY CREEK RD. BETWEEN STA. 16+00 AND 22+00, INT SIG4765																							
75	SE A-1	ALTON & DARBY CREEK RD	19+49, 37' RT									75	125	12		1							
75	IC-2	ALTON & DARBY CREEK RD	19+49, 37' RT	19+62, 48' RT									17				17						
75	IC-1	ALTON & DARBY CREEK RD	19+49, 37' RT	22+00, 34' RT								253					253						
75	TC-1	ALTON & DARBY CREEK RD	19+53, 50' RT										10		1					2	1	1	
75	IC-4	ALTON & DARBY CREEK RD	19+53, 50' RT	19+62, 48' RT	9								9										
75	IC-3	ALTON & DARBY CREEK RD	19+62, 48' RT										35										
ALTON & DARBY CREEK RD. BETWEEN STA. 22+00 AND 33+00																							
76	IC-1	ALTON & DARBY CREEK RD	22+00, 34' RT	33+00, 33' RT								1,117					1,117						
76	IC-2	ALTON & DARBY CREEK RD	31+65, 21' RT									150											
ALTON & DARBY CREEK RD. BETWEEN STA. 33+00 AND 44+00																							
77	IC-1	ALTON & DARBY CREEK RD	33+00, 33' RT	39+16, 92' RT								619					619						
77	IC-2	ALTON & DARBY CREEK RD	34+41, 39' RT								1												
77	IC-3	ALTON & DARBY CREEK RD	39+16, 92' RT							1	1	35											
77	IC-4	ALTON & DARBY CREEK RD	39+16, 92' RT	39+74, 18' RT		105		1	105			105											
77	IC-5	ALTON & DARBY CREEK RD	39+26, 90' RT					1				100											
77	IC-6	ALTON & DARBY CREEK RD	39+74, 18' RT	42+83, 18' RT			616					308											
77	IC-9	ALTON & DARBY CREEK RD	42+56, 103' RT							1	1	35											
77	IC-7	ALTON & DARBY CREEK RD	42+56, 103' RT	42+83, 18' RT		127		1	127			127											
77	IC-10	ALTON & DARBY CREEK RD	42+56, 103' RT	44+00, 81' RT								146					146						
77	IC-8	ALTON & DARBY CREEK RD	42+62, 99' RT					1				100											
ALTON & DARBY CREEK RD. BETWEEN STA. 44+00 AND 55+00																							
78	IC-1	ALTON & DARBY CREEK RD	44+00, 81' RT	55+00, 28' RT								1,109					1,109						
78	IC-2	ALTON & DARBY CREEK RD	53+67, 23' RT									150											
ALTON & DARBY CREEK RD. BETWEEN STA. 55+00 AND 66+00, INT SIG4880																							
79	IC-1	ALTON & DARBY CREEK RD	55+00, 28' RT	63+57, 35' RT								871					871						
79	IC-3	ALTON & DARBY CREEK RD	61+68, 96' RT	61+81, 29' RT								69					69						
79	IC-4	ALTON & DARBY CREEK RD	61+81, 29' RT								1												
79	IC-2	ALTON & DARBY CREEK RD	61+81, 29' RT	63+57, 35' RT								179											
79	SE A-1	ALTON & DARBY CREEK RD	63+57, 35' RT									225	250	228		1							
79	IC-6	ALTON & DARBY CREEK RD	63+57, 35' RT	63+84, 39' RT									54										
79	IC-5	ALTON & DARBY CREEK RD	63+57, 35' RT	66+00, 47' RT								247					247						
79	TC-1	ALTON & DARBY CREEK RD	63+72, 38' RT										20		2			20		2	1	1	
79	IC-8	ALTON & DARBY CREEK RD	63+72, 38' RT	63+84, 39' RT	13								26										
79	EC-3	ALTON & DARBY CREEK RD	63+72, 38' RT	63+84, 39' RT														26					
79	IC-7	ALTON & DARBY CREEK RD	63+84, 39' RT										70										
79	EC-2	ALTON & DARBY CREEK RD	63+84, 39' RT															70					
79	EC-1	ALTON & DARBY CREEK RD	63+84, 39' RT	63+86, 50' LT													91	182					
79	CTV-1	ALTON & DARBY CREEK RD	63+86, 50' LT																1				
ALTON & DARBY CREEK RD. BETWEEN STA. 66+00 AND 77+00, INT SIG4885																							
80	IC-1	ALTON & DARBY CREEK RD	66+00, 47' RT	75+42, 48' RT								957					957						
80	IC-3	ALTON & DARBY CREEK RD	75+42, 48' RT	75+44, 39' LT									87				87						
80	SE A-1	ALTON & DARBY CREEK RD	75+42, 48' RT									150	125	24		1							
80	IC-2	ALTON & DARBY CREEK RD	75+42, 48' RT	76+62, 130' LT								291					291						
80	IC-4	ALTON & DARBY CREEK RD	75+44, 39' LT										35										
80	IC-5	ALTON & DARBY CREEK RD	75+44, 39' LT	75+55, 43' LT	12								12										
80	TC-1	ALTON & DARBY CREEK RD	75+55, 43' LT										10		1					2	1	1	
SHEET TOTAL					34	232	616	4	232	2	4	7,418	885	264	4	3	5,874	298	1	6	3	3	-	-

AERIAL SAG: 1.5% AERIAL SAG IS INCLUDED IN THE QUANTITIES FOR ANY AERIAL FIBER OR CABLE ITEMS.

3378-E

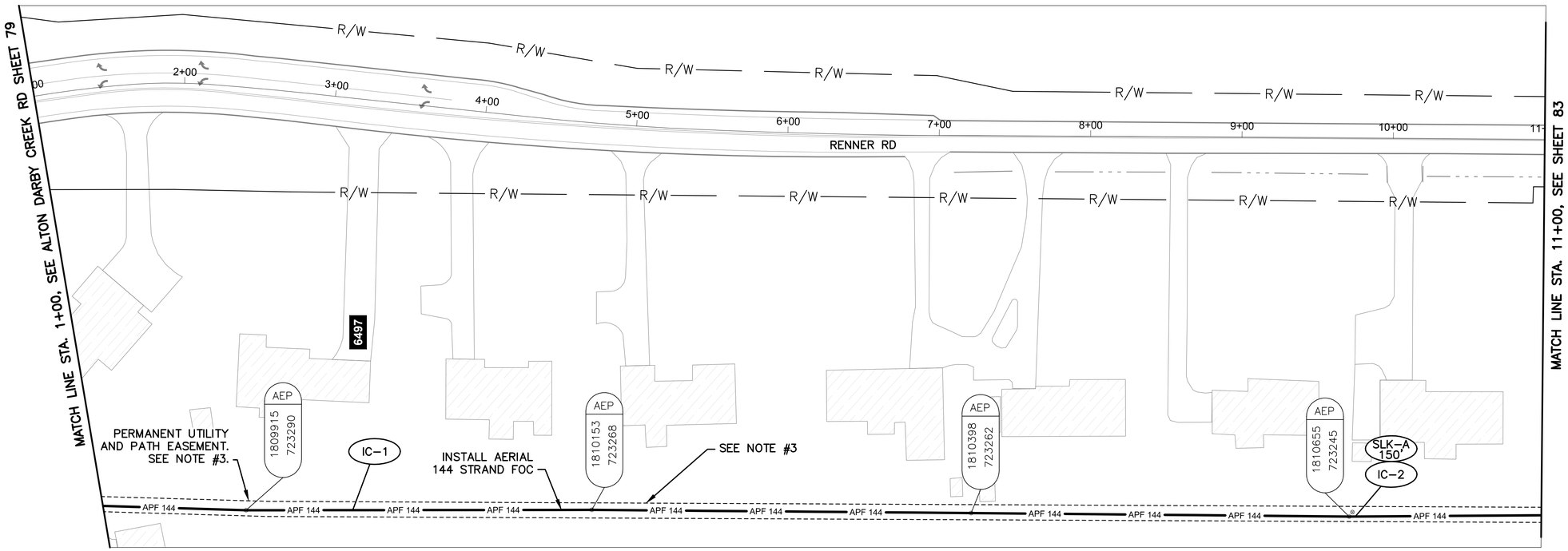
CIP: 540007-100012
PID NUMBER: 99733

ALTON & DARBY CREEK RD BETWEEN STA. 16+00 & 77+00
INTS SIG4765, SIG4880, SIG4885

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

81
915

J:\Jobs\63721 CTSS Phase E\TECHPROD\Sheets\CTSS_PhE_Trunk0_ALTON_DARBY_CREEK_JC_QUANTITIES.dwg – ALTON DARBY-Q1 layout ~ last saved by: gburch 05/17/2018 08:31am ~ printed 09/18/2018 09:34am PSLTS: 1 LTS: 1 CAS: 1:1



RENNER RD BETWEEN STATION 1+00 AND 11+00

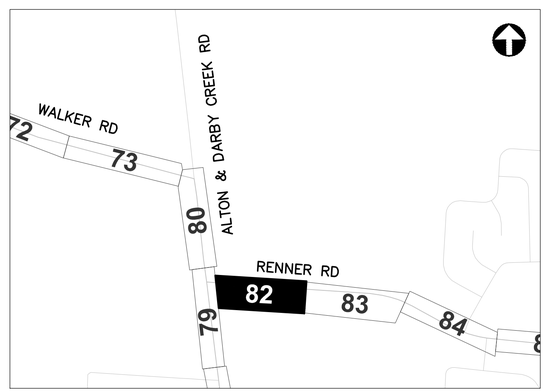
NOTES:

1. SEE SHEET 89 FOR QUANTITIES.
2. SEE SHEET 611 FOR COMMUNICATION DETAILS.
3. EXISTING AEP POLE LINE EAST OF ALTON DARBY CREEK RD AND SOUTH OF RENNER RD IS DESCRIBED UNDER EASEMENT VOL 2494, PAGES 330 & 331, INSTRUMENT #196307240015069.

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CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 9 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

3378-E

HORIZONTAL SCALE IN FEET
0 40 80

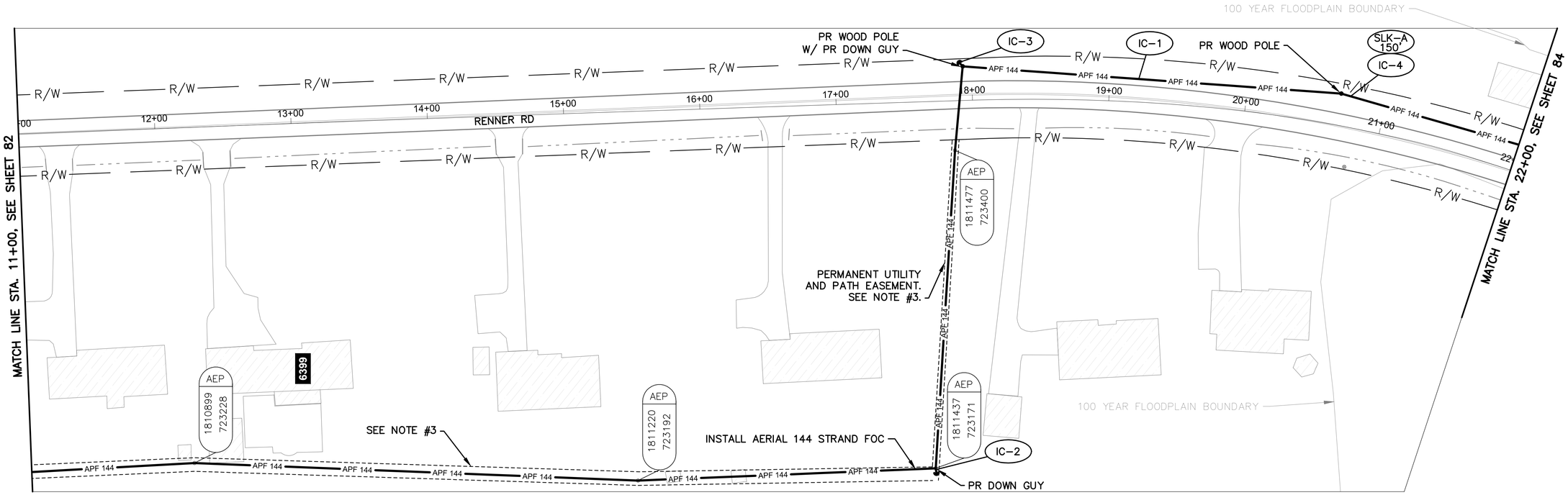
CIP: 540007-100012
PID NUMBER: 99733

INTERCONNECT PLAN
RENNER RD BETWEEN STA. 1+00 AND 11+00

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

82
915

J:\Jobs\63721 ctss phase e\TECHPROD\Sheets\CTSS_PhE_Trunk0_RENNER_INTERCONNECT.dwg – RENNER-1 layout ~ last saved by: gburch 09/06/2018 02:35pm ~ printed 09/11/2018 04:45pm PSLTS: 1 LTS: 1 CAS: 1:1



RENNER RD BETWEEN STATION 11+00 AND 22+00

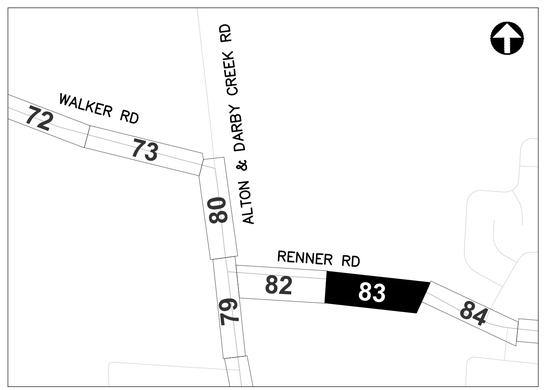
NOTES:

1. SEE SHEET 89 FOR QUANTITIES.
2. SEE SHEET 611 FOR COMMUNICATION DETAILS.
3. EXISTING AEP POLE LINE EAST OF ALTON DARBY CREEK RD AND SOUTH OF RENNER RD IS DESCRIBED UNDER EASEMENT VOL 2494, PAGES 330 & 331, INSTRUMENT #196307240015069.

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CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 9 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

3378-E

HORIZONTAL SCALE IN FEET
0 40 80

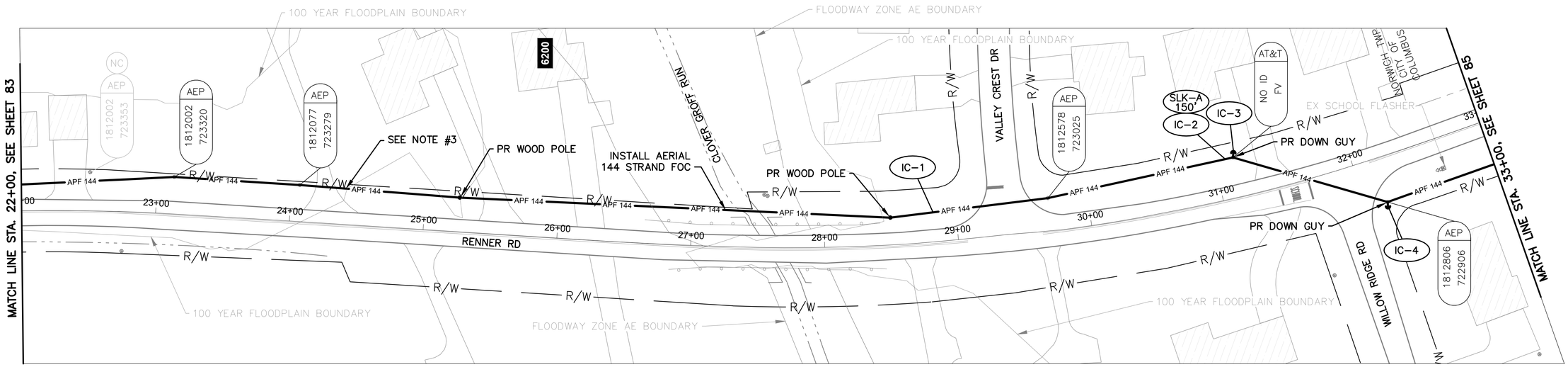
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PID NUMBER: 99733

INTERCONNECT PLAN
RENNER RD BETWEEN STA. 11+00 AND 22+00

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

83
915

J:\Jobs\63721 ctss phase e\TECHPROD\Sheets\CTSS_PhE_Trunk0_RENNER_INTERCONNECT.dwg – RENNER-2 layout ~ last saved by: gburch 09/06/2018 02:35pm ~ printed 09/11/2018 04:46pm PSLTS: 1 LTS: 1 CAS: 1:1



RENNER RD BETWEEN STATION 22+00 AND 33+00

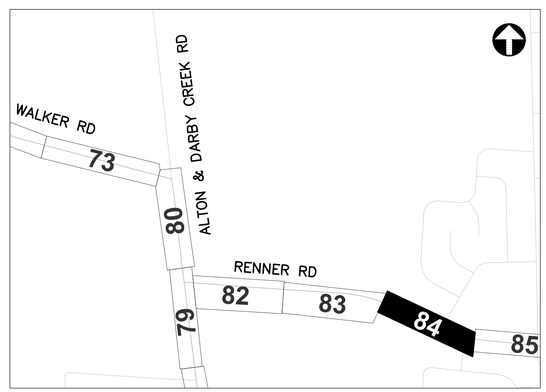
NOTES:

1. SEE SHEET 89 FOR QUANTITIES.
2. SEE SHEET 611 FOR COMMUNICATION DETAILS.
3. INSTALL CABLE GUARD WHERE AERIAL OBSTRUCTIONS ARE PRESENT.

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CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 9 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

3378-E

HORIZONTAL SCALE IN FEET
0 40 80

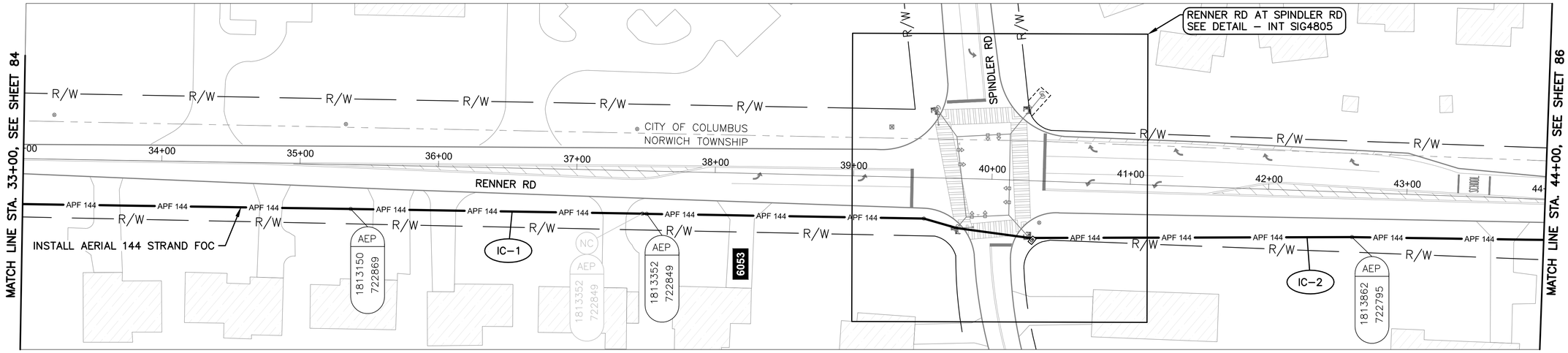
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PID NUMBER: 99733

INTERCONNECT PLAN
RENNER RD BETWEEN STA. 22+00 AND 33+00

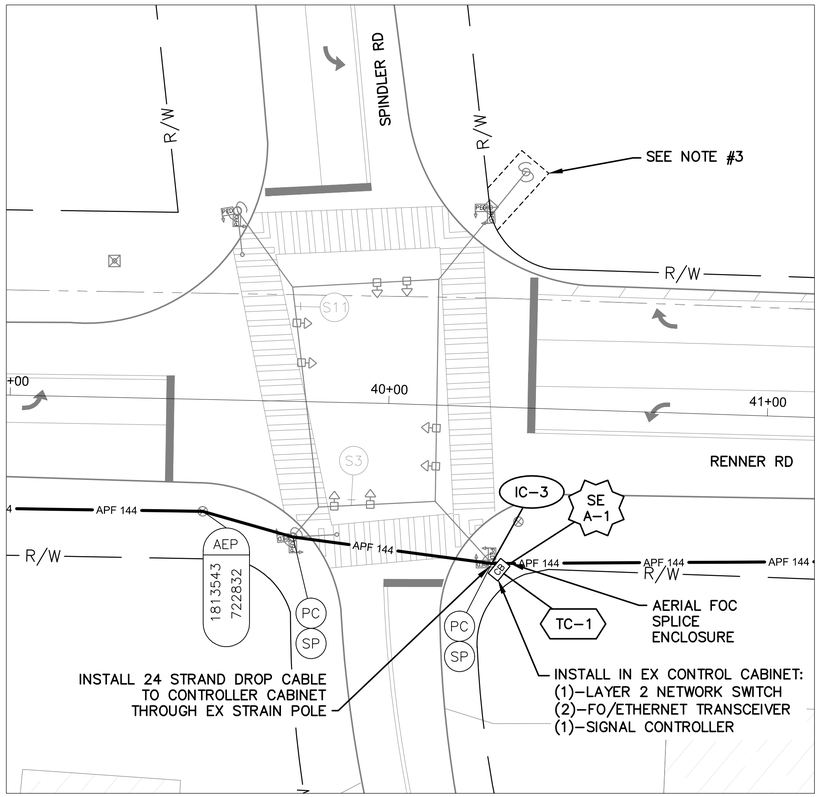
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

84
915

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RENNER RD BETWEEN STATION 33+00 AND 44+00



DETAIL - INT SIG4805

0 20 40
HORIZONTAL
SCALE IN FEET

NOTES:

1. SEE SHEET 89 FOR QUANTITIES.
2. SEE SHEETS 611 & 638 FOR COMMUNICATION DETAILS.
3. EXISTING EASEMENT PER INSTRUMENT NUMBER #200003150051398.

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CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 9 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

0 40 80
HORIZONTAL
SCALE IN FEET

CIP: 540007–100012
PID NUMBER: 99733

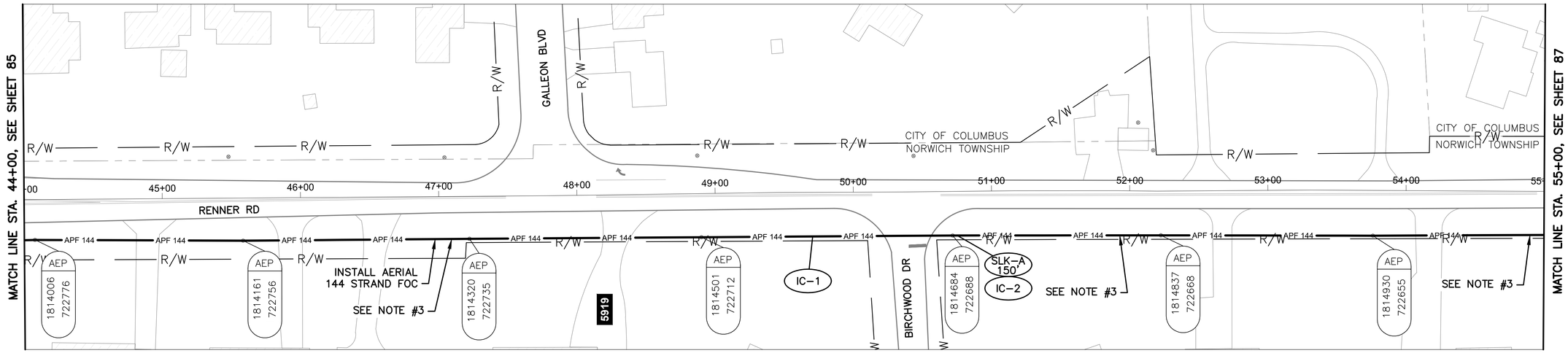
INTERCONNECT PLAN
RENNER RD BETWEEN STA. 33+00 AND 44+00, INT SIG4805

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

3378-E

85
915

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RENNER RD BETWEEN STATION 44+00 AND 55+00

NOTES:

1. SEE SHEET 89 FOR QUANTITIES.
2. SEE SHEET 611 FOR COMMUNICATION DETAILS.
3. INSTALL CABLE GUARD WHERE AERIAL OBSTRUCTIONS ARE PRESENT.

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CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 9 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

3378-E

HORIZONTAL SCALE IN FEET
0 40 80

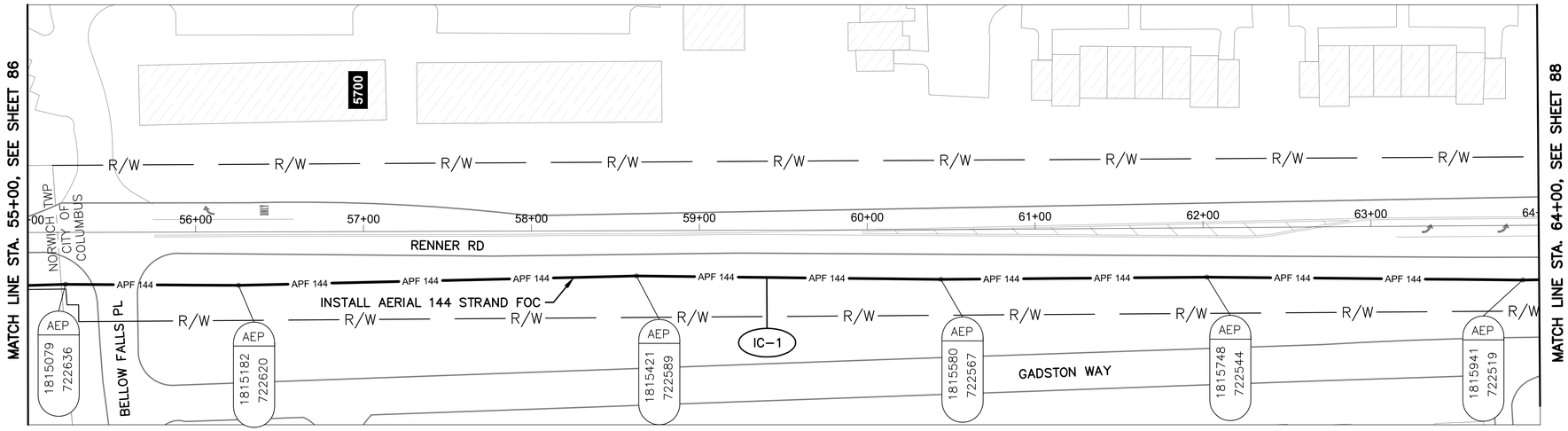
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PID NUMBER: 99733

INTERCONNECT PLAN
RENNER RD BETWEEN STA. 44+00 AND 55+00

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

86
915

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RENNER RD BETWEEN STATION 55+00 AND 64+00

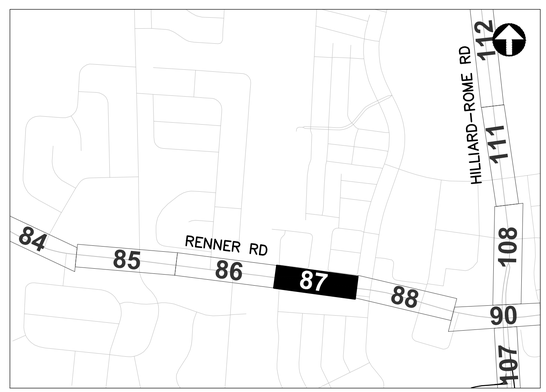
NOTES:

1. SEE SHEET 89 FOR QUANTITIES.
2. SEE SHEET 611 FOR COMMUNICATION DETAILS.

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CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 9 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

3378-E

HORIZONTAL SCALE IN FEET
0 40 80

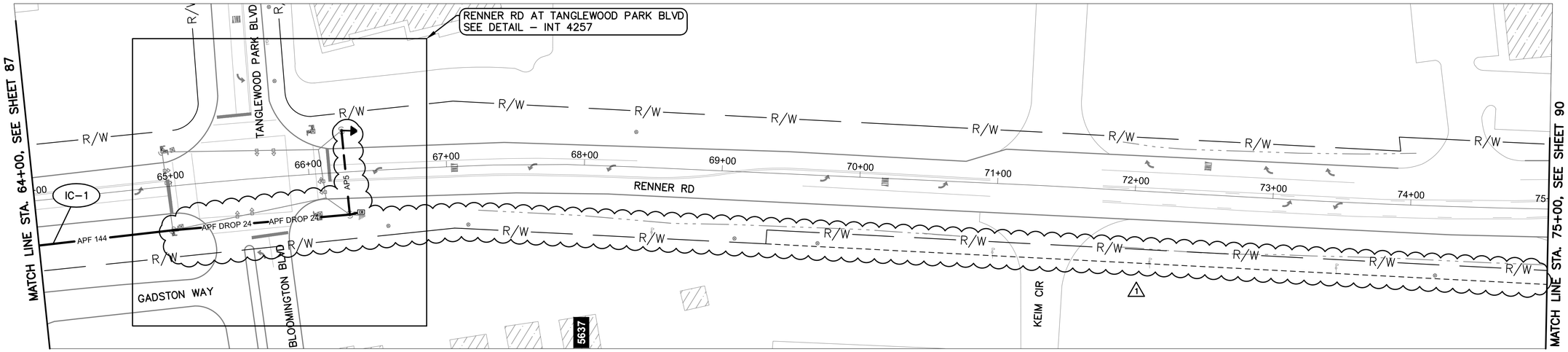
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PID NUMBER: 99733

INTERCONNECT PLAN
RENNER RD BETWEEN STA. 55+00 AND 64+00

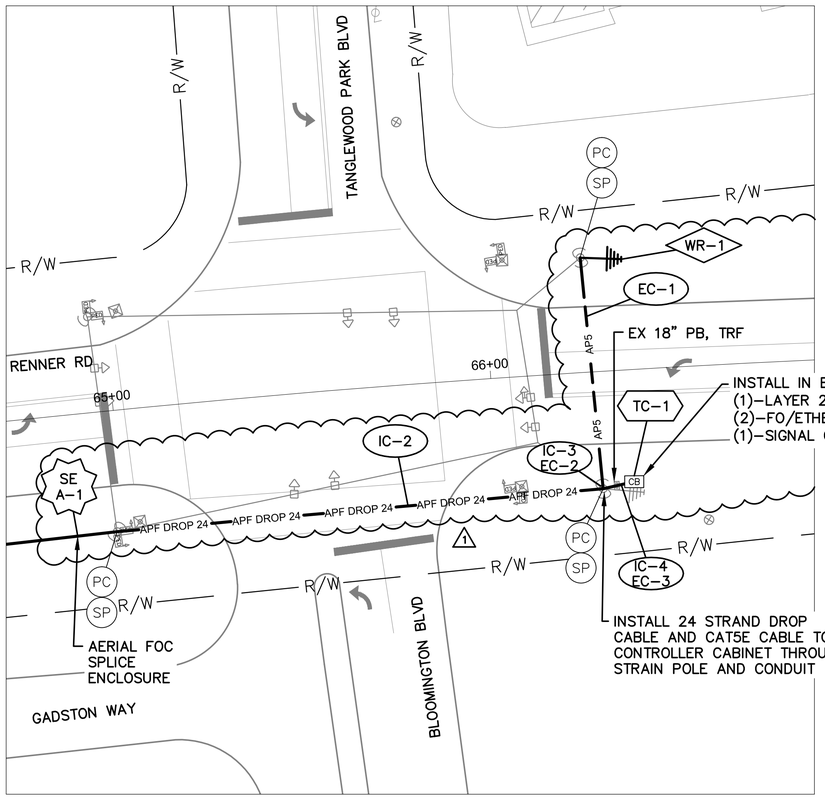
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

87
915

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RENNER RD BETWEEN STATION 64+00 AND 75+00



DETAIL - INT 4257

0 20 40
HORIZONTAL SCALE IN FEET

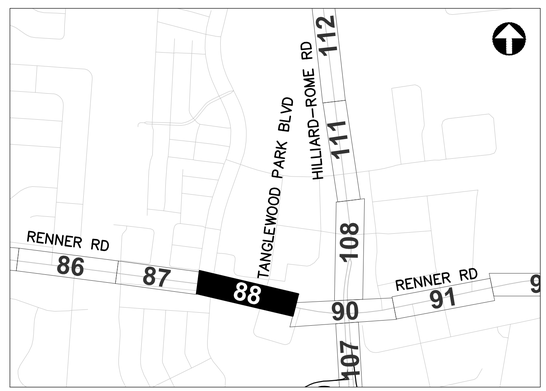
INT 4257 WITH PROPOSED SIGNAL CONTROLLER → PROPOSED WIRELESS SEE SHEET 90 INT 4140 – RENNER RD AT HILLIARD ROME RD

NOTES:

1. SEE SHEET 89 FOR QUANTITIES.
2. SEE SHEETS 611 & 639 FOR COMMUNICATION DETAILS.

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CITY OF COLUMBUS UTILITY LEGEND
- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 9 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

0 40 80
HORIZONTAL SCALE IN FEET

CIP: 540007–100012
PID NUMBER: 99733

INTERCONNECT PLAN
RENNER RD BETWEEN STA. 64+00 AND 75+00, INT 4257

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

1 REVISION 1.0
11–02–2018

3378-E

88
915

J:\Jobs\63721 CTSS Phase E\TECHPROD\Sheets\CTSS_PhE_Trunk0_RENNER_INTERCONNECT.dwg ~ RENNER–7 layout ~ last saved by jbeans 11/06/2018 03:02pm ~ printed 11/06/2018 03:13pm PSLTS: 1 LTS: 1 CAS: 1:1

ESTIMATED QUANTITIES

SHEET NO.	REFERENCE NO.	LOCATION	STATION		202	632	632	632	632	632	632	632	632	632	633	633	633						
					EXISTING CONDUIT CLEANED, AS PER PLAN	DOWN GUY	INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 144 STRAND	INTERCONNECT CABLE, MISC.: FIBER OPTIC DROP CABLE, 24 STRAND	INTERCONNECT CABLE, MISC.: FIBER OPTIC FUSION SPLICE	INTERCONNECT CABLE, MISC.: TERMINATION PANEL, 24 FIBER	INTERCONNECT, MISC.: CAT 5E CABLE, OUTDOOR RATED	INTERCONNECT, MISC.: SPLICE ENCLOSURE, CLAMSHELL, 288 SPLICE	MESSENGER WIRE, 7 STRAND, 1/4" DIAMETER WITH ACCESSORIES, AS PER PLAN	SPREAD SPECTRUM RADIO, AS PER PLAN	WOOD POLE, CLASS 5, 35 FT	CONTROLLER ITEM, MISC.: FIBER OPTIC ETHERNET TRANSCEIVER, SHORT RANGE	CONTROLLER ITEM, MISC.: LAYER 2 ETHERNET SWITCH	CONTROLLER UNIT, TYPE TS2/A2, AS PER PLAN						
			FROM	TO	FT	EACH	FT	FT	EACH	EACH	FT	EACH	FT	EACH	EACH	EACH	EACH	EACH						
RENNER RD. BETWEEN STA. 1+00 AND 11+00																							
82	IC-1	RENNER RD	1+00, 275' RT	11+00, 248' RT			964						964										
82	IC-2	RENNER RD	9+76, 250' RT				150																
RENNER RD. BETWEEN STA. 11+00 AND 22+00																							
83	IC-1	RENNER RD	11+00, 248' RT	22+00, 20' LT			1,394						1,394		2								
83	IC-2	RENNER RD	17+64, 269' RT			1																	
83	IC-3	RENNER RD	17+94, 25' LT			1																	
83	IC-4	RENNER RD	20+74, 23' LT				150																
RENNER RD. BETWEEN STA. 22+00 AND 33+00																							
84	IC-1	RENNER RD	22+00, 20' LT	33+00, 33' RT			1,159						1,159		2								
84	IC-2	RENNER RD	31+08, 30' LT				150																
84	IC-3	RENNER RD	31+14, 30' LT			1																	
84	IC-4	RENNER RD	32+16, 34' RT			1																	
RENNER RD. BETWEEN STA. 33+00 AND 44+00, INT SIG4805																							
85	IC-1	RENNER RD	33+00, 33' RT	40+28, 41' RT			741						741										
85	SE A-1	RENNER RD	40+28, 41' RT				150	125	24			1											
85	IC-3	RENNER RD	40+28, 41' RT	40+28, 41' RT				35															
85	TC-1	RENNER RD	40+28, 41' RT					10		1						2	1	1					
85	IC-2	RENNER RD	40+28, 41' RT	44+00, 29' RT			377						377										
RENNER RD. BETWEEN STA. 44+00 AND 55+00																							
86	IC-1	RENNER RD	44+00, 29' RT	55+00, 32' RT			1,117						1,117										
86	IC-2	RENNER RD	50+74, 32' RT				150																
RENNER RD. BETWEEN STA. 55+00 AND 64+00																							
87	IC-1	RENNER RD	55+00, 32' RT	64+00, 32' RT			914						914										
RENNER RD. BETWEEN STA. 64+00 AND 75+00, INT 4257																							
88	IC-1	RENNER RD	64+00, 32' RT	64+98, 32' RT			230						230										
88	SE A-1	RENNER RD	64+98, 32' RT				150	125	24			1											
88	IC-2	RENNER RD	64+98, 32' RT	66+28, 31' RT				131					131										
88	WR-1	RENNER RD	66+26, 30' LT											1									
88	EC-1	RENNER RD	66+26, 30' LT	66+28, 31' RT							62		62										
88	IC-3	RENNER RD	66+28, 31' RT				35																
88	EC-2	RENNER RD	66+28, 31' RT								35												
88	IC-4	RENNER RD	66+28, 31' RT	66+36, 30' RT	8			8					883										
88	EC-3	RENNER RD	66+28, 31' RT	66+36, 30' RT							8												
88	TC-1	RENNER RD	66+36, 30' RT					10		1	10			1		2	1	1					
SHEET TOTAL					8	4	7,831	444	48	2	115	2	7,972	1	4	4	2	2	-	-	-	-	-	-

AERIAL SAG: 1.5% AERIAL SAG IS INCLUDED IN THE QUANTITIES FOR ANY AERIAL FIBER OR CABLE ITEMS.

1 REVISION 1.0 11–02–2018

3378-E

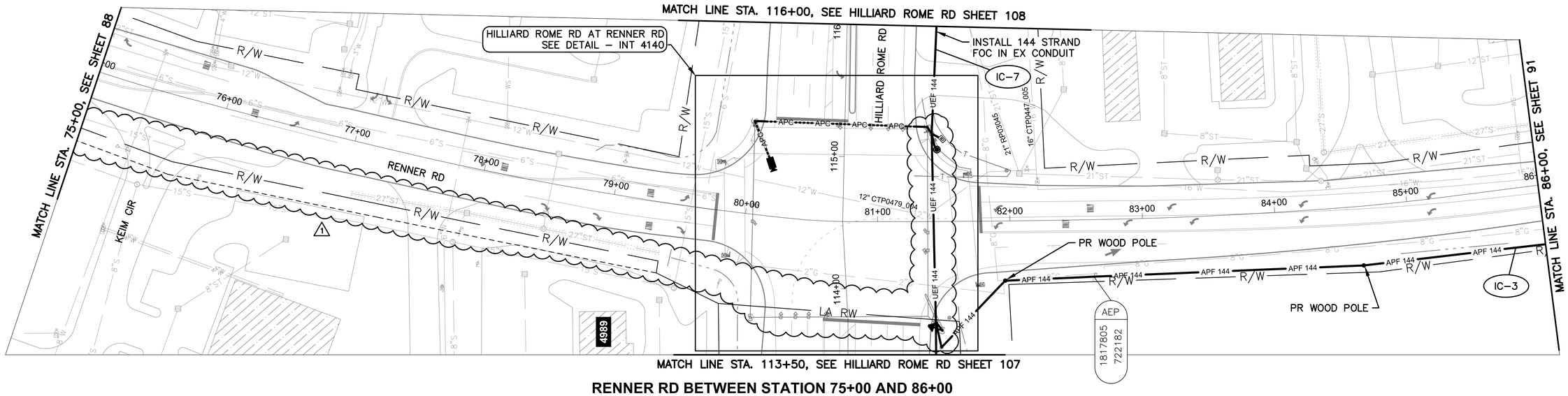
CIP: 540007–100012
PID NUMBER: 99733

RENNER RD BETWEEN STA. 1+00 & 75+00
INTS SIG4805, 4257

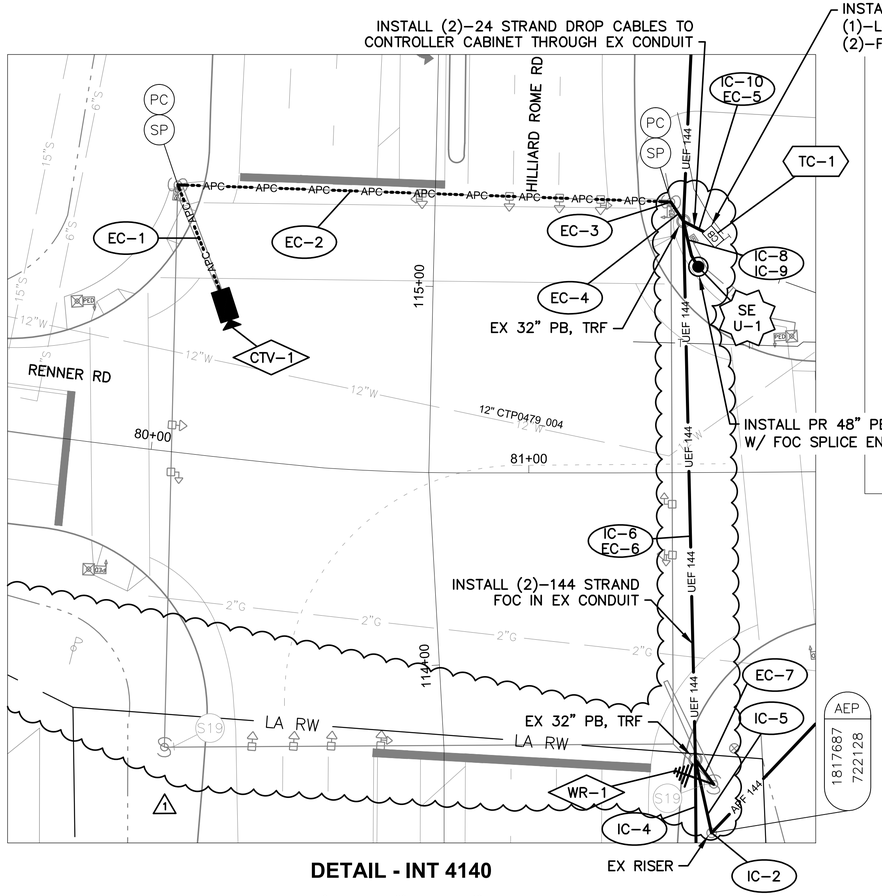
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

89
915

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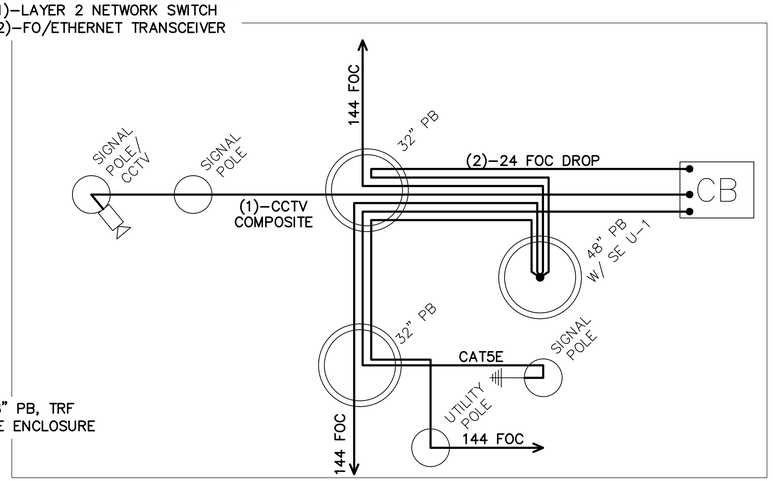


RENNER RD BETWEEN STATION 75+00 AND 86+00



DETAIL - INT 4140

0 20 40
HORIZONTAL
SCALE IN FEET



CABLE SCHEMATIC - INT 4140

NOT TO SCALE

PROPOSED WIRELESS
SEE SHEET 88
INT 4257 – RENNER RD
AT TANGLEWOOD PARK
BLVD

INT 4140 WITH
EXISTING SIGNAL
CONTROLLER

NOTES:

1. SEE SHEET 94 FOR QUANTITIES.
2. SEE SHEETS 611 & 640 FOR COMMUNICATION DETAILS.

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CITY OF COLUMBUS
UTILITY LEGEND

- ☐ SEWER
- ☒ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 9 FOR
INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

0 40 80
HORIZONTAL
SCALE IN FEET

CIP: 540007–100012
PID NUMBER: 99733

INTERCONNECT PLAN
RENNER RD BETWEEN STA. 75+00 AND 86+00, INT 4140

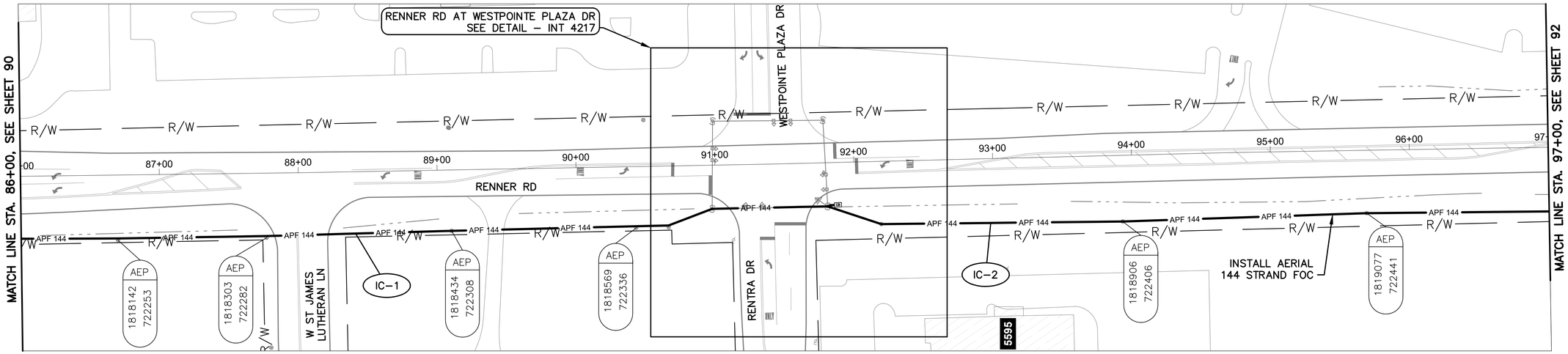
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

1 REVISION 1.0
11–02–2018

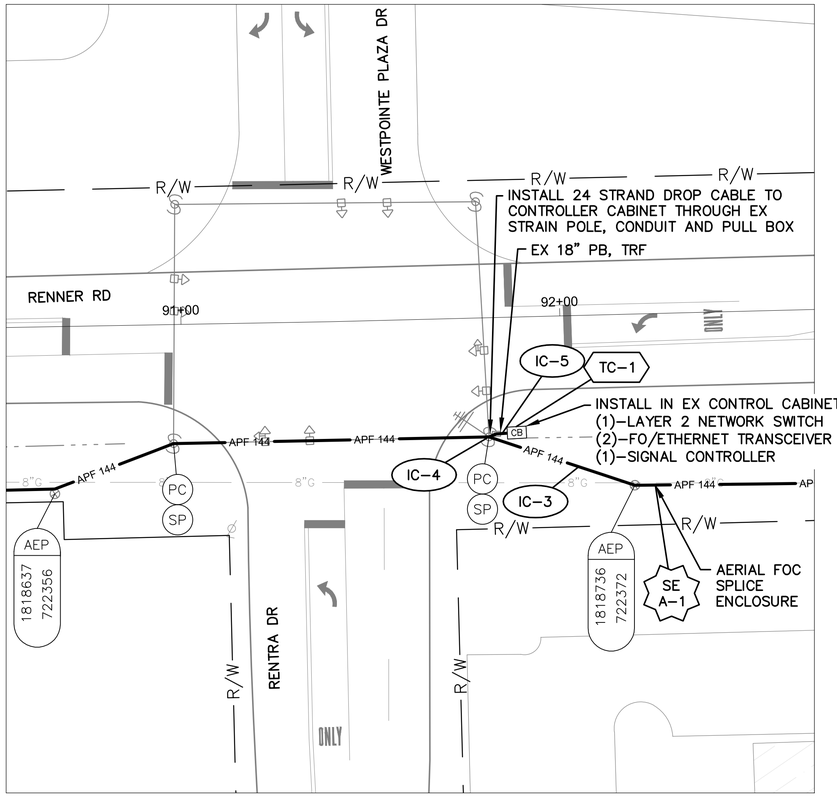
3378-E

90
915

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RENNER RD BETWEEN STATION 86+00 AND 97+00



DETAIL - INT 4217

0 20 40
HORIZONTAL
SCALE IN FEET

NOTES:

1. SEE SHEET 94 FOR QUANTITIES.
2. SEE SHEETS 611 & 641 FOR COMMUNICATION DETAILS.

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CITY OF COLUMBUS
UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 9 FOR
INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

0 40 80
HORIZONTAL
SCALE IN FEET

CIP: 540007–100012
PID NUMBER: 99733

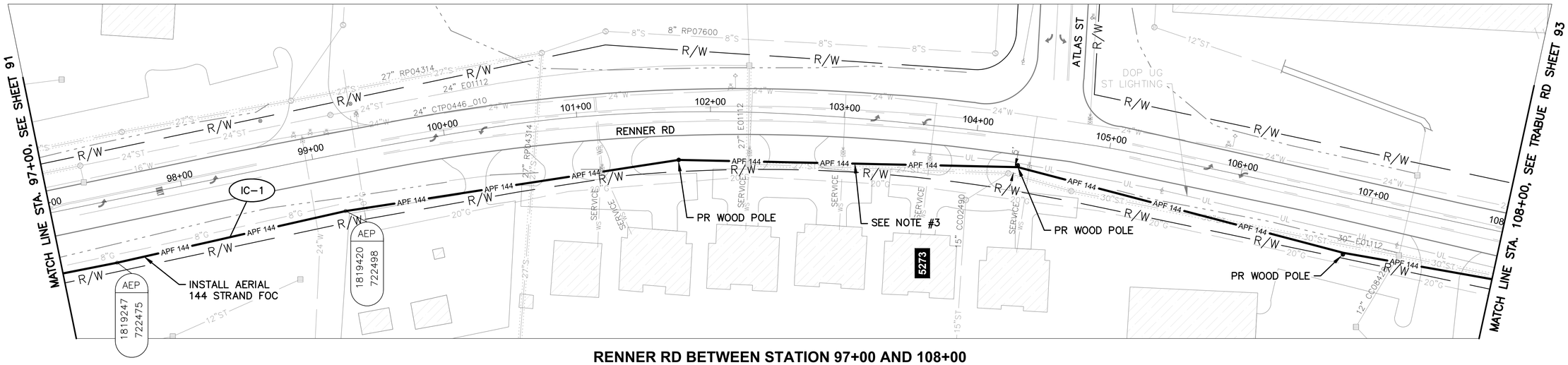
INTERCONNECT PLAN
RENNER RD BETWEEN STA. 86+00 AND 97+00, INT 4217

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

91
915

3378-E

J:\Jobs\63721 CTSS Phase E\TECHPROD\Sheets\CTSS_PhE_Trunk0_RENNER_INTERCONNECT.dwg ~ RENNER-9 layout ~ last saved by: gburch 09/13/2018 03:24pm ~ printed 09/13/2018 04:48pm PSLTS: 1 LTS: 1 CAS: 1:1



RENNER RD BETWEEN STATION 97+00 AND 108+00

NOTES:

1. SEE SHEET 94 FOR QUANTITIES.
2. SEE SHEET 611 FOR COMMUNICATION DETAILS.
3. INSTALL CABLE GUARD WHERE AERIAL OBSTRUCTIONS ARE PRESENT.

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CITY OF COLUMBUS UTILITY LEGEND

☒	SEWER
☒	WATER
☐	POWER
☒	LIGHTING



REFER TO SHEET 9 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

HORIZONTAL SCALE IN FEET
0 40 80

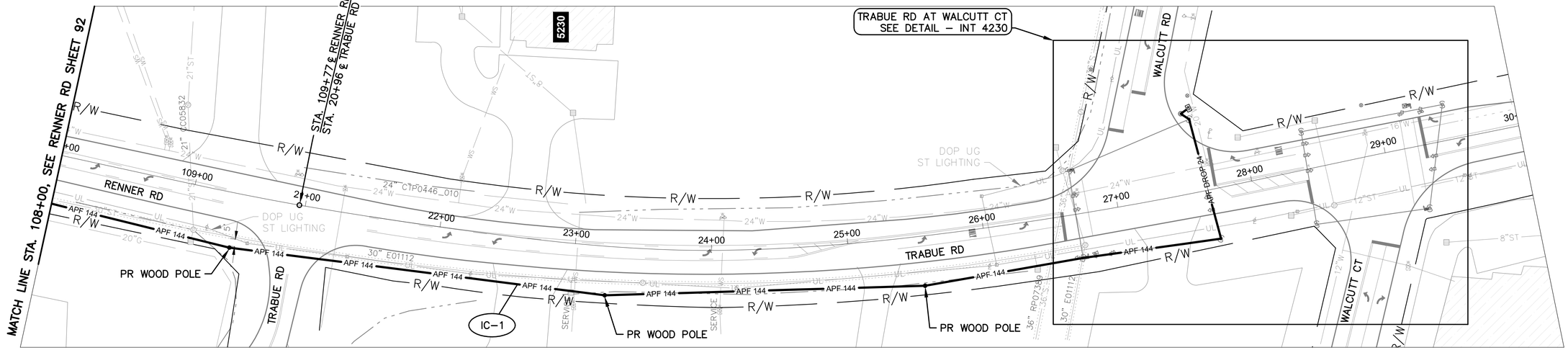
CIP: 540007-100012
PID NUMBER: 99733

INTERCONNECT PLAN
RENNER RD BETWEEN STA. 97+00 AND 108+00

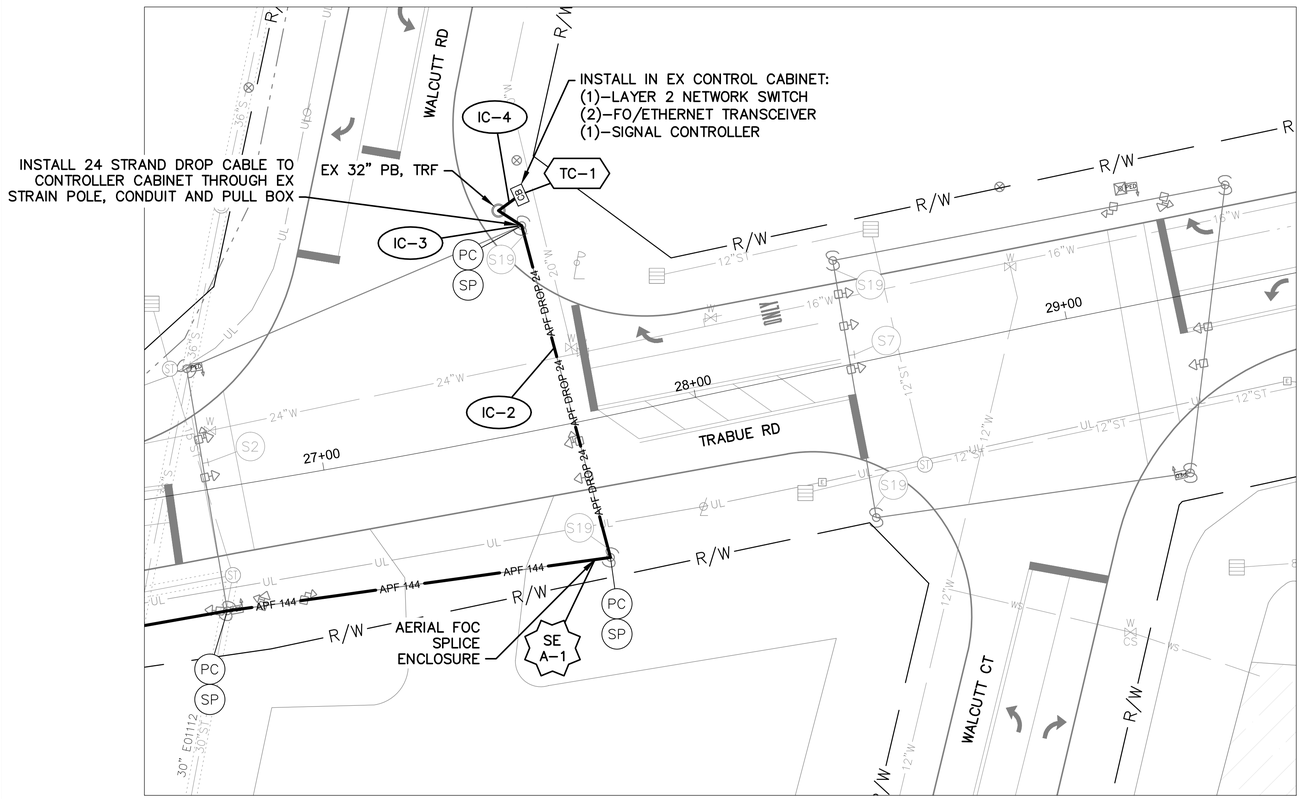
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

3378-E

J:\Jobs\63721 ctss phase e\TECHPROD\Sheets\CTSS_PhE_Trunk0_RENNER_INTERCONNECT.dwg – RENNER-10 layout ~ last saved by: gburch 09/06/2018 02:35pm ~ printed 09/11/2018 05:03pm PSLTS: 1 LTS: 1 CAS: 1:1



RENNER AND TRABUE RD BETWEEN STATION 108+00 AND 30+00



DETAIL - INT 4230

0 20 40
HORIZONTAL SCALE IN FEET

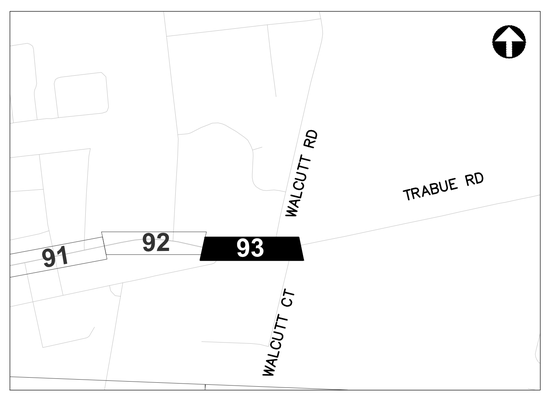
NOTES:

1. SEE SHEET 94 FOR QUANTITIES.
2. SEE SHEETS 611 & 642 FOR COMMUNICATION DETAILS.

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CITY OF COLUMBUS UTILITY LEGEND

☒	SEWER
☒	WATER
☐	POWER
☒	LIGHTING



REFER TO SHEET 9 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

0 40 80
HORIZONTAL SCALE IN FEET

CIP: 540007–100012
PID NUMBER: 99733

INTERCONNECT PLAN
RENNER AND TRABUE RD BETWEEN STA. 108+00 AND 30+00, INT 4230

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

93
915

3378-E

J:\Jobs\63721 ctss phase e\TECHPROD\Sheets\CTSS_PhE_TrunkO_TRABUE_INTERCONNECT.dwg – TRABUE–1 layout ~ last saved by: gburch 09/06/2018 05:20pm ~ printed 10/22/2018 08:45am PSLTS: 1 LTS: 1 CAS: 1:1

ESTIMATED QUANTITIES

SHEET NO.	REFERENCE NO.	LOCATION	STATION		202	625	625	625	632	632	632	632	632	632	632	632	632	632	633	633	633	
					EXISTING CONDUIT CLEANED, AS PER PLAN	CONDUIT, CONCRETE ENCASED, 4-3", 725.05, AS PER PLAN	PULL BOX, CONCRETE 48", AS PER PLAN	TRENCH, 36" DEEP, AS PER PLAN	INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 144 STRAND	INTERCONNECT CABLE, MISC.: FIBER OPTIC DROP CABLE, 24 STRAND	INTERCONNECT CABLE, MISC.: FIBER OPTIC FUSION SPLICE	INTERCONNECT CABLE, MISC.: TERMINATION PANEL, 24 FIBER	INTERCONNECT, MISC.: CAT 5E CABLE, OUTDOOR RATED	INTERCONNECT, MISC.: SPLICE ENCLOSURE, CLAMSHELL, 288 SPLICE	INTERCONNECT, MISC.: SPLICE ENCLOSURE, DOME, 800 SPLICE	MESSENGER WIRE, 7 STRAND, 1/4" DIAMETER WITH ACCESSORIES, AS PER PLAN	SIGNALIZATION, MISC.: CCTV COMPOSITE CABLE	SIGNALIZATION, MISC.: CCTV IP-CAMERA SYSTEM	SPREAD SPECTRUM RADIO, AS PER PLAN	WOOD POLE, CLASS 5, 35 FT	CONTROLLER ITEM, MISC.: FIBER OPTIC ETHERNET TRANSCEIVER, SHORT RANGE	CONTROLLER ITEM, MISC.: LAYER 2 ETHERNET SWITCH	CONTROLLER UNIT, TYPE TS2/A2, AS PER PLAN	
			FROM	TO	FT	FT	EACH	FT	FT	FT	EACH	EACH	FT	EACH	EACH	FT	FT	EACH	EACH	EACH	EACH	EACH	EACH	
RENNER RD. BETWEEN STA. 75+00 AND 86+00, INT 4140																								
90	EC-1	RENNER RD	79+99, 70' LT	81+37, 71' LT													30							
90	EC-2	RENNER RD	79+99, 70' LT	80+13, 44' LT												132	264							
90	CTV-1	RENNER RD	80+13, 44' LT															1						
90	EC-3	RENNER RD	81+37, 71' LT														70							
90	EC-4	RENNER RD	81+37, 71' LT	81+41, 64' LT	8												16							
90	IC-7	RENNER RD	81+41, 64' LT	81+45, 148' LT	84				84															
90	IC-10	RENNER RD	81+41, 64' LT	81+48, 62' LT	8					16														
90	EC-5	RENNER RD	81+41, 64' LT	81+48, 62' LT									16				16							
90	IC-6	RENNER RD	81+41, 64' LT	81+43, 76' RT	139				278															
90	EC-6	RENNER RD	81+41, 64' LT	81+43, 76' RT									139											
90	IC-8	RENNER RD	81+41, 64' LT	81+45, 54' LT		10		10	30															
90	IC-9	RENNER RD	81+41, 64' LT	81+45, 54' LT						20														
90	IC-4	RENNER RD	81+43, 76' RT	81+43, 101' RT	25				25															
90	IC-5	RENNER RD	81+43, 76' RT	81+47, 95' RT	20				20															
90	EC-7	RENNER RD	81+43, 76' RT	81+48, 82' RT	8								8											
90	SE U-1	RENNER RD	81+45, 54' LT				1		225	250	312				1									
90	IC-2	RENNER RD	81+47, 95' RT						35															
90	IC-3	RENNER RD	81+47, 95' RT	86+00, 56' RT					469							469								
90	TC-1	RENNER RD	81+48, 62' LT							20		2	10				20				2	1		
90	WR-1	RENNER RD	81+48, 82' RT										35						1					
RENNER RD. BETWEEN STA. 86+00 AND 97+00, INT 4217													⚠1											
91	IC-1	RENNER RD	86+00, 56' RT	92+19, 45' RT					634							634								
91	IC-5	RENNER RD	91+80, 31' RT	91+87, 30' RT	8					8														
91	IC-4	RENNER RD	91+80, 31' RT							35														
91	IC-3	RENNER RD	91+80, 31' RT	92+19, 45' RT						41														
91	TC-1	RENNER RD	91+87, 30' RT							10		1									2	1	1	
91	SE A-1	RENNER RD	92+19, 45' RT						150	125	24			1										
91	IC-2	RENNER RD	92+19, 45' RT	97+00, 46' RT					489							489								
RENNER RD. BETWEEN STA. 97+00 AND 108+00																								
92	IC-1	RENNER RD	97+00, 46' RT	108+00, 36' RT					1,101							1,101				3				
RENNER RD. / TRABUE RD. BETWEEN STA. 108+00 AND 30+00, INT 4230																								
93	IC-1	RENNER RD/TRABUE RD	108+00, 36' RT	27+69, 37' RT					880							880				3				
93	IC-3	TRABUE RD	27+63, 54' LT							35														
93	IC-4	TRABUE RD	27+63, 54' LT	27+65, 62' LT	14					14														
93	IC-2	TRABUE RD	27+63, 54' LT	27+69, 37' RT						92						92								
93	TC-1	TRABUE RD	27+65, 62' LT							10		1									2	1	1	
93	SE A-1	TRABUE RD	27+69, 37' RT						75	125	12			1										
SHEET TOTAL					314	10	1	10	4,495	801	348	4	208	2	1	3,797	416	1	1	8	6	3	2	-

AERIAL SAG: 1.5% AERIAL SAG IS INCLUDED IN THE QUANTITIES FOR ANY AERIAL FIBER OR CABLE ITEMS.

⚠1 REVISION 1.0
11-02-2018

3378-E

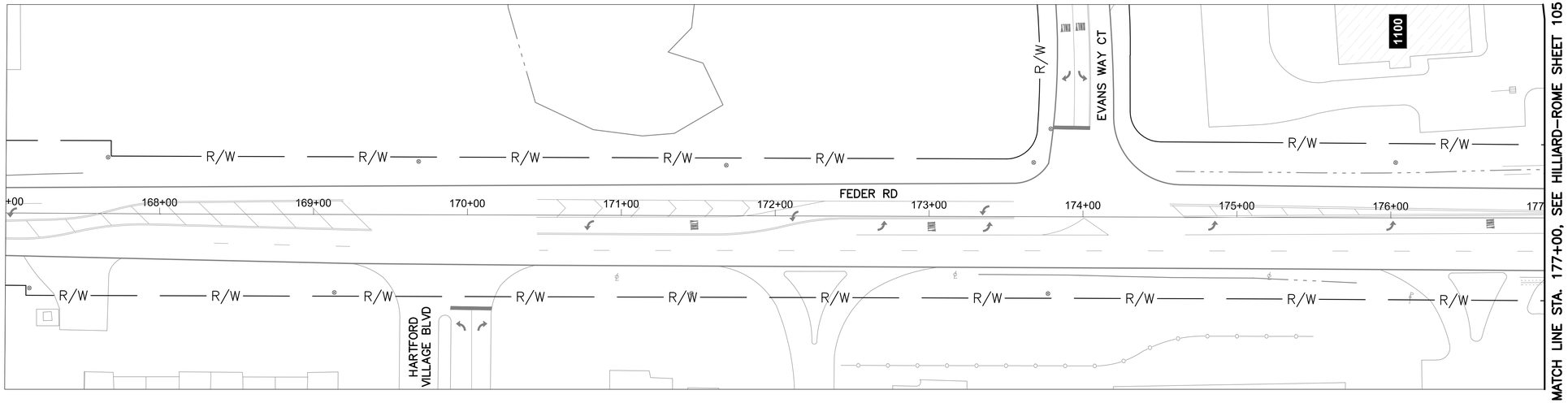
CIP: 540007-100012
PID NUMBER: 99733

RENNER RD BETWEEN STA 75+00 & 109+00
TRABUE RD BETWEEN STA. 21+00 & 30+00, INTS4140, 4217, 4230

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E - FINAL SUBMITTAL

94
915

J:\Jobs\63721 CTSS Phase E\TECHPROD\Sheets\CTSS_PhE_TrunkO_RENNER_JC_QUANTITIES.dwg ~ RENNER RD-02 layout ~ last saved by: jbeans 11/05/2018 02:29pm ~ printed 11/06/2018 12:03pm PSLTS: 1 LTS: 1 CAS: 1:1



FEDER RD BETWEEN STATION 167+00 AND 177+00

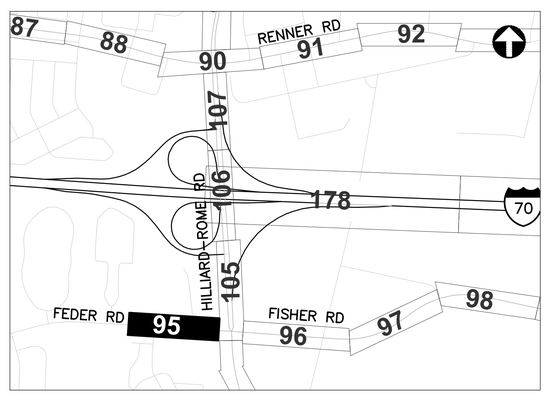
NOTES:

1. NO WORK ON THIS SHEET. FOR REFERENCE ONLY.
2. SEE SHEET 611 FOR COMMUNICATION DETAILS.

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CITY OF COLUMBUS UTILITY LEGEND

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- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 9 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

HORIZONTAL SCALE IN FEET
0 40 80

CIP: 540007-100012
PID NUMBER: 99733

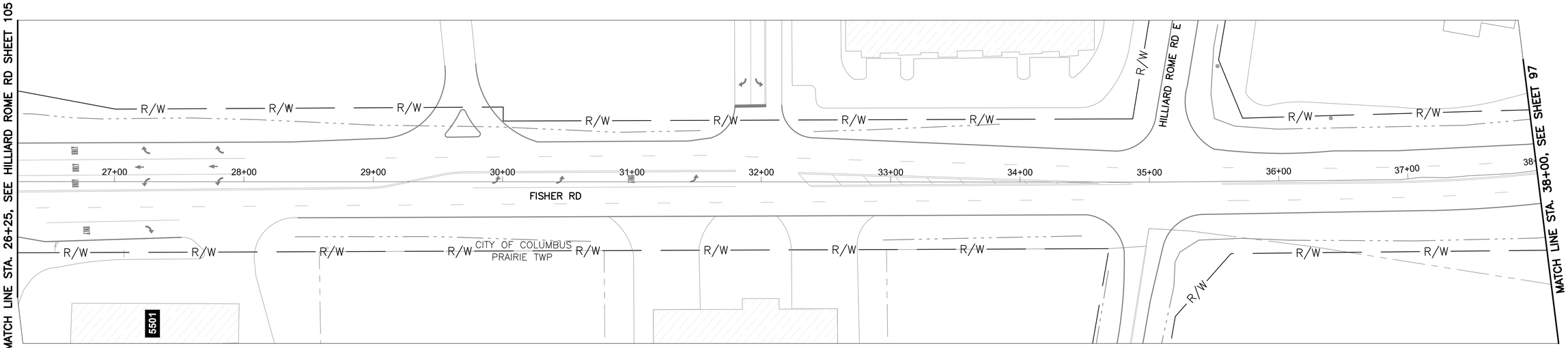
INTERCONNECT PLAN
FISHER RD BETWEEN STA. 167+00 AND 177+00, INT 4269

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

95
915

3378-E

J:\Jobs\63721 ctss phase e\TECHPROD\Sheets\CTSS_PhE_TrunkO_FISHER1_INTERCONNECT.dwg – FEDER-1 layout ~ last saved by: gburch 09/04/2018 11:19am ~ printed 09/12/2018 07:51am PSLTS: 1 LTS: 1 CAS: 1:1



FISHER RD BETWEEN STATION 26+25 AND 38+00

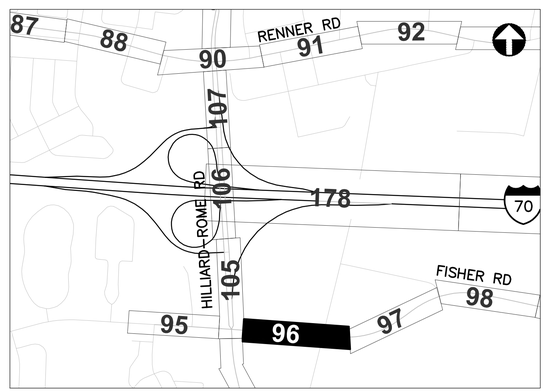
NOTES:

1. NO WORK ON THIS SHEET. FOR REFERENCE ONLY.
2. SEE SHEET 611 FOR COMMUNICATION DETAILS.

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CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 9 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

3378-E

HORIZONTAL SCALE IN FEET
0 40 80

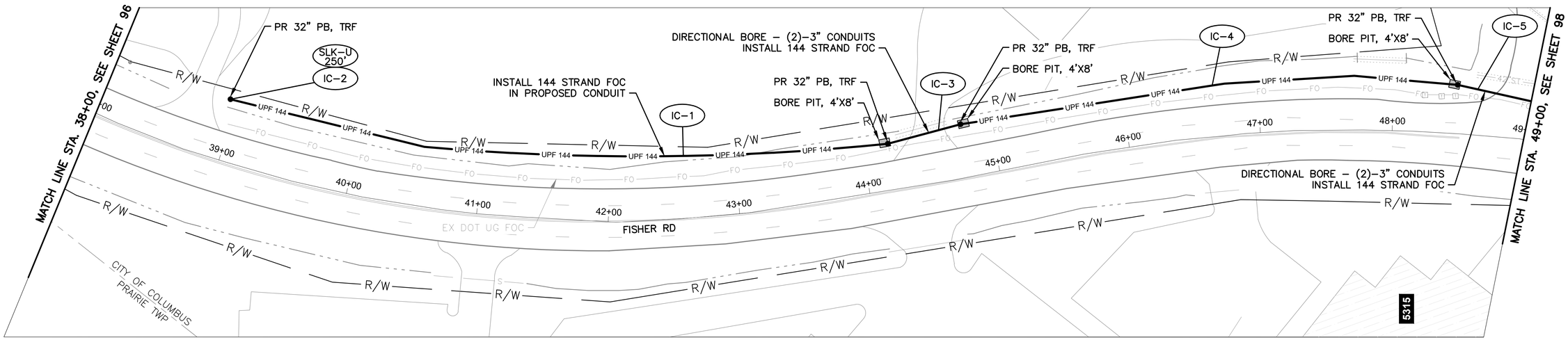
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PID NUMBER: 99733

INTERCONNECT PLAN
FISHER RD BETWEEN STA. 26+25 AND 38+00

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

96
915

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FISHER RD BETWEEN STATION 38+00 AND 49+00

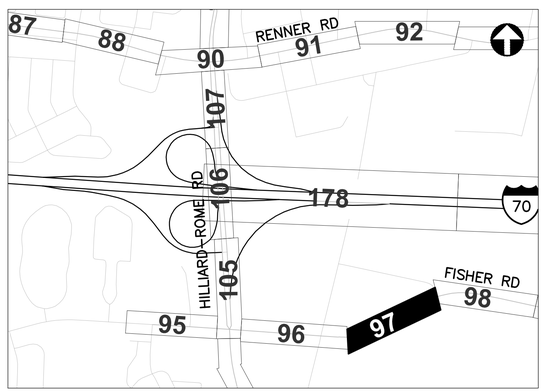
NOTES:

1. SEE SHEET 103 FOR QUANTITIES.
2. SEE SHEET 611 FOR COMMUNICATION DETAILS.

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CITY OF COLUMBUS UTILITY LEGEND

- ☒ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 9 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

3378-E

HORIZONTAL SCALE IN FEET
0 40 80

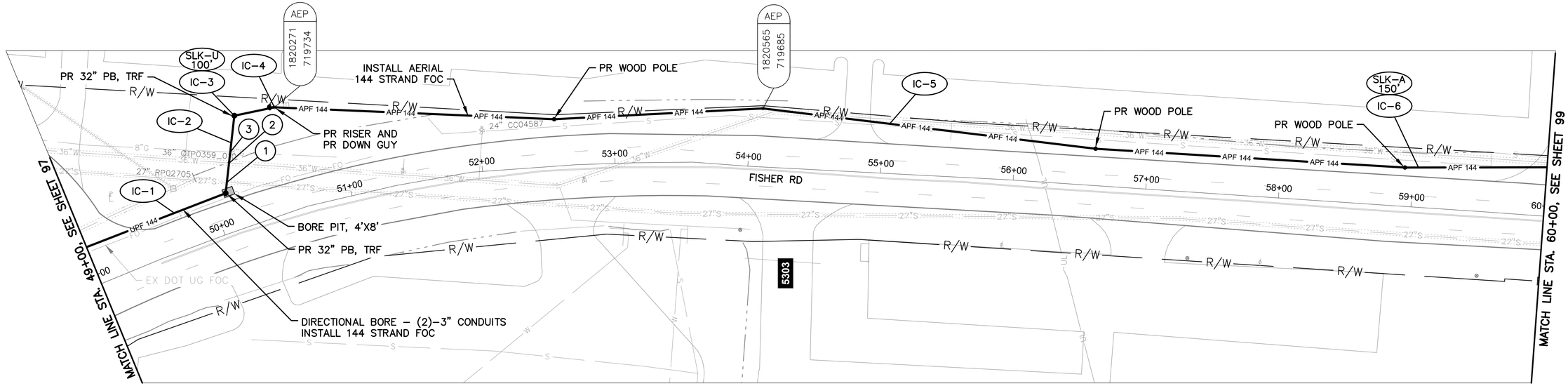
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PID NUMBER: 99733

INTERCONNECT PLAN
FISHER RD BETWEEN STA. 38+00 AND 49+00

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E - FINAL SUBMITTAL

97
915

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FISHER RD BETWEEN STATION 49+00 AND 60+00

NOTES:

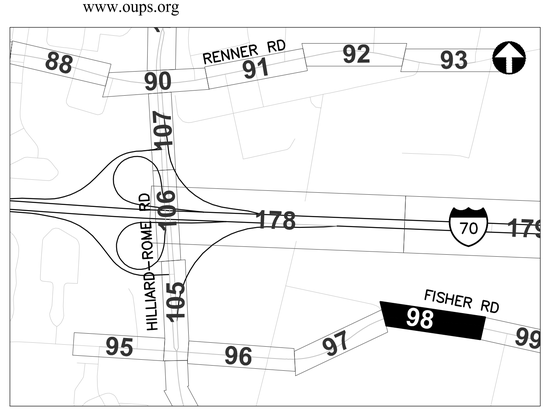
1. SEE SHEET 103 FOR QUANTITIES.
2. SEE SHEET 611 FOR COMMUNICATION DETAILS.

(#) EXISTING UTILITY CROSSING. SEE UTILITY CROSSING INFO SHEET 17.

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CITY OF COLUMBUS UTILITY LEGEND

- ☒ SEWER
- ☒ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 9 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

HORIZONTAL SCALE IN FEET
0 40 80

CIP: 540007-100012
PID NUMBER: 99733

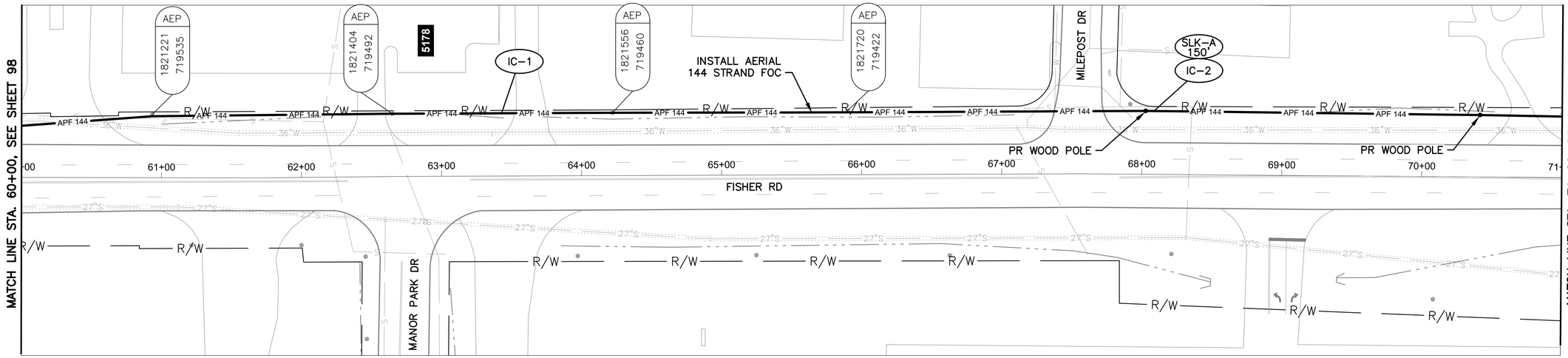
INTERCONNECT PLAN
FISHER RD BETWEEN STA. 49+00 AND 60+00

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E - FINAL SUBMITTAL

98
915

3378-E

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FISHER RD BETWEEN STATION 60+00 AND 71+00

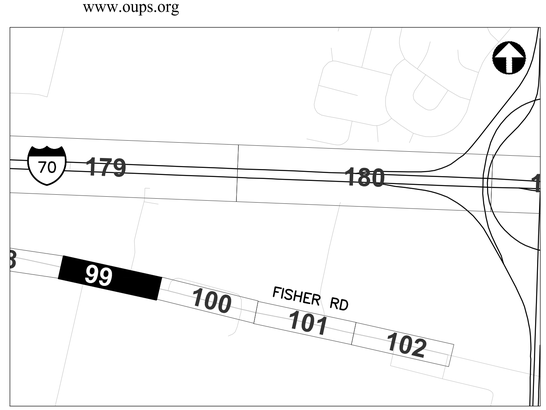
NOTES:

1. SEE SHEET 103 FOR QUANTITIES.
2. SEE SHEET 611 FOR COMMUNICATION DETAILS.

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CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 9 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

HORIZONTAL SCALE IN FEET
0 40 80

CIP: 540007-100012
PID NUMBER: 99733

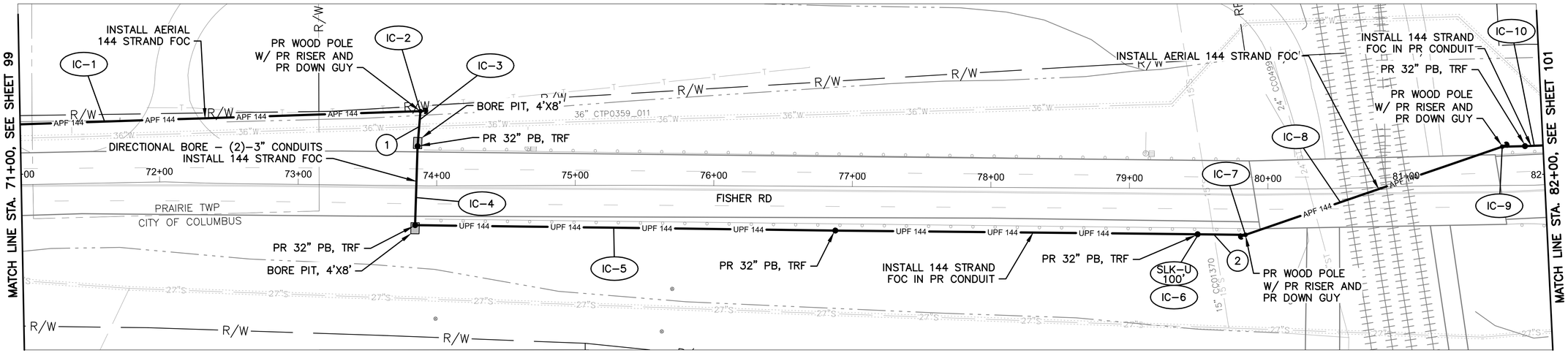
INTERCONNECT PLAN
FISHER RD BETWEEN STA. 60+00 AND 71+00

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

99
915

3378-E

J:\Jobs\63721 ctss phase e\TECHPROD\Sheets\CTSS_PhE_TrunkO_FISHER1_INTERCONNECT.dwg – FISHER-4 layout ~ last saved by: gburch 09/04/2018 11:19am ~ printed 09/11/2018 05:16pm PSLTS: 1 LTS: 1 CAS: 1:1



FISHER RD BETWEEN STATION 71+00 AND 82+00

NOTES:

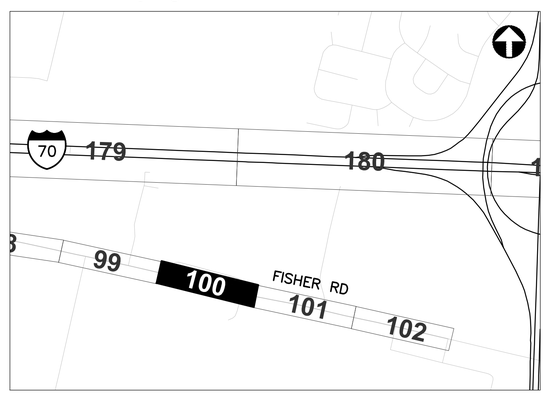
1. SEE SHEET 103 FOR QUANTITIES.
2. SEE SHEET 611 FOR COMMUNICATION DETAILS.
3. RAILROAD CROSSING AT STA. 80+80. SEE SHEET 24 FOR RAILROAD COORDINATION DETAILS.

(#) EXISTING UTILITY CROSSING. SEE UTILITY CROSSING INFO SHEET 17.

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CITY OF COLUMBUS UTILITY LEGEND

- ☒ SEWER
- ☒ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 9 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

HORIZONTAL SCALE IN FEET
0 40 80

CIP: 540007–100012
PID NUMBER: 99733

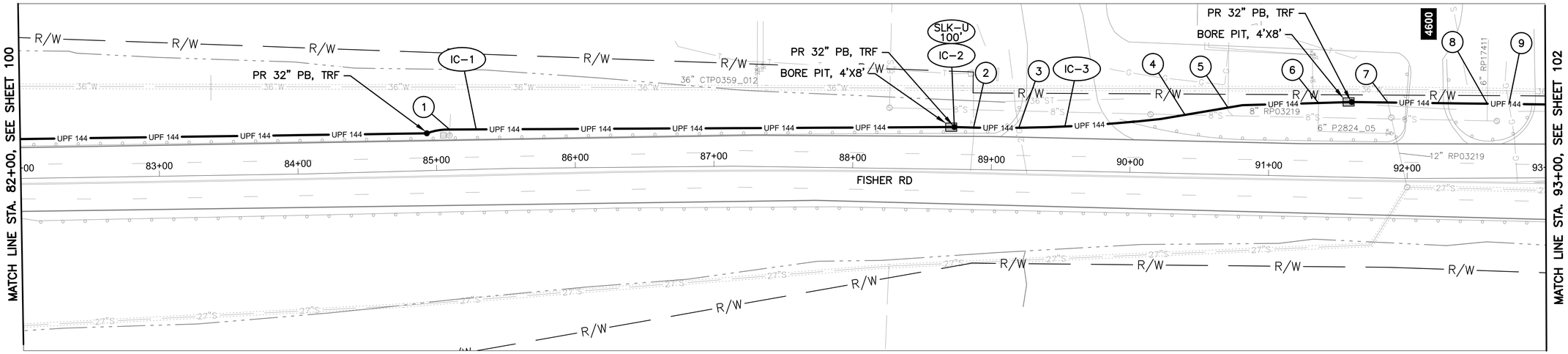
INTERCONNECT PLAN
FISHER RD BETWEEN STA. 71+00 AND 82+00

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

100
915

3378-E

J:\Jobs\63721 ctss phase e\TECHPROD\Sheets\CTSS_PhE_TrunkO_FISHER1_INTERCONNECT.dwg – FISHER-5 layout ~ last saved by: gburch 09/04/2018 11:19am ~ printed 09/11/2018 05:17pm PSLTS: 1 LTS: 1 CAS: 1:1



FISHER RD BETWEEN STATION 82+00 AND 93+00

NOTES:

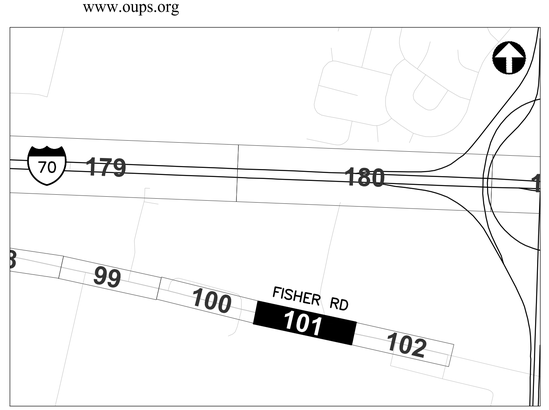
1. SEE SHEET 103 FOR QUANTITIES.
2. SEE SHEET 611 FOR COMMUNICATION DETAILS.

(#) EXISTING UTILITY CROSSING. SEE UTILITY CROSSING INFO SHEET 17.

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CITY OF COLUMBUS UTILITY LEGEND

- ☒ SEWER
- ☒ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 9 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

HORIZONTAL SCALE IN FEET
0 40 80

CIP: 540007-100012
PID NUMBER: 99733

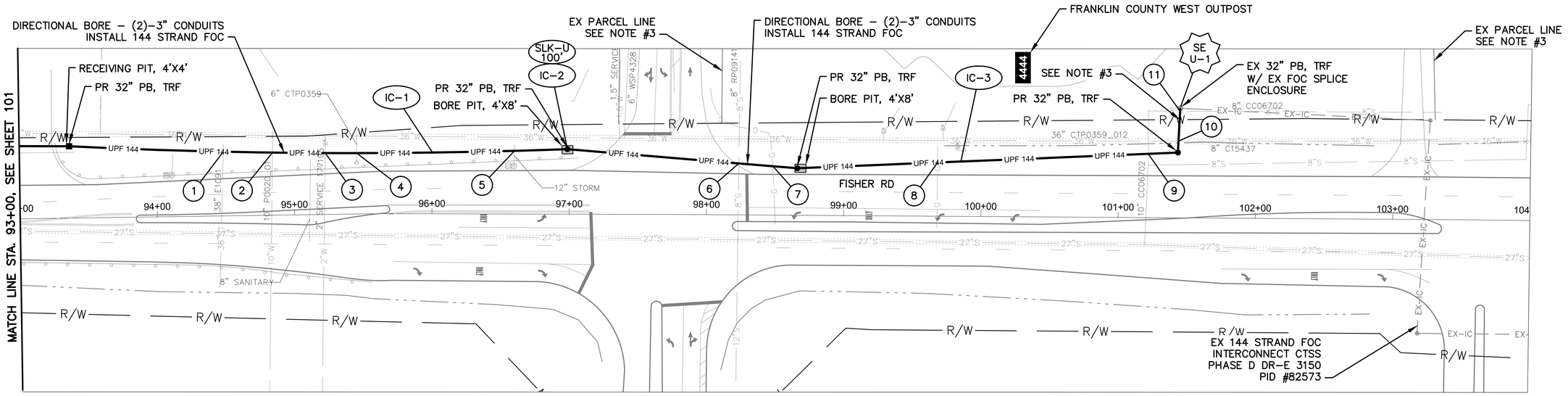
INTERCONNECT PLAN
FISHER RD BETWEEN STA. 82+00 AND 93+00

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

101
915

3378-E

J:\Jobs\63721 ctss phase e\TECHPROD\Sheets\CTSS_PhE_TrunkO_FISHER1_INTERCONNECT.dwg – FISHER-6 layout ~ last saved by: gburch 09/04/2018 11:19am ~ printed 09/11/2018 05:19pm PSLTS: 1 LTS: 1 CAS: 1:1



FISHER RD BETWEEN STATION 93+00 AND 104+00

NOTES:

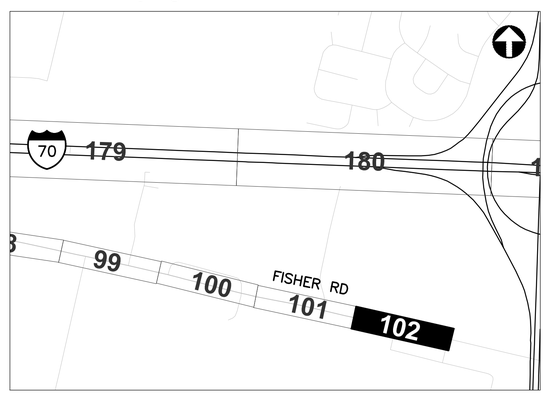
1. SEE SHEET 103 FOR QUANTITIES.
2. SEE SHEETS 611 & 643 FOR COMMUNICATION DETAILS.
3. RESOLUTION NUMBER 0509–14 (SIGNED ON JULY 23, 2014), GRANTING CONSENT FOR THE COOPERATION OF FRANKLIN COUNTY AND THE CITY OF COLUMBUS TO COMPLETE WORK RELATED TO THE CTSS PHASE PROJECTS.

(#) EXISTING UTILITY CROSSING. SEE UTILITY CROSSING INFO SHEET 17.

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CITY OF COLUMBUS UTILITY LEGEND

- ☒ SEWER
- ☒ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 9 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

HORIZONTAL SCALE IN FEET
0 40 80

CIP: 540007–100012
PID NUMBER: 99733

INTERCONNECT PLAN
FISHER RD BETWEEN STA. 93+00 AND 104+00

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

102
915

3378-E

J:\Jobs\63721 ctss phase e\TECHPROD\Sheets\CTSS_PhE_TrunkO_FISHER1_INTERCONNECT.dwg – FISHER–7 layout ~ last saved by: gburch 09/04/2018 11:19am ~ printed 09/11/2018 05:21pm PSLTS: 1 LTS: 1 CAS: 1:1

ESTIMATED QUANTITIES

SHEET NO.	REFERENCE NO.	LOCATION	STATION		625 CONDUIT, CONCRETE ENCASED, 2-3", 725.05, AS PER PLAN	625 CONDUIT, JACKED OR DRILLED, 3", AS PER PLAN	625 PULL BOX, CONCRETE 32", AS PER PLAN	625 TRENCH, 36" DEEP, AS PER PLAN	632 CONDUIT RISER, 2", 725.04, AS PER PLAN	632 DOWN GUY	632 INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 144 STRAND	632 INTERCONNECT CABLE, MISC.: FIBER OPTIC FUSION SPLICE	632 MESSENGER WIRE, 7 STRAND, 1/4" DIAMETER WITH ACCESSORIES, AS PER PLAN	632 WOOD POLE, CLASS 5, 35 FT										
			FROM	TO	FT	FT	EACH	FT	EACH	EACH	FT	EACH	FT	EACH										
FISHER RD. BETWEEN STA. 38+00 AND 49+00																								
97	IC-2	FISHER RD	38+95, 47' LT				1				250													
97	IC-1	FISHER RD	38+95, 47' LT	44+19, 39' LT	504			504			504													
97	IC-3	FISHER RD	44+19, 39' LT	44+77, 41' LT		114	2				57													
97	IC-4	FISHER RD	44+77, 41' LT	48+47, 37' LT	380			380			380													
97	IC-5	FISHER RD	48+47, 37' LT	49+00, 30' LT		114	1				57													
FISHER RD. BETWEEN STA. 49+00 AND 60+00																								
98	IC-1	FISHER RD	49+00, 30' LT	50+10, 30' LT		224	1				112													
98	IC-2	FISHER RD	50+10, 30' LT	50+66, 78' LT	89			89			89													
98	IC-3	FISHER RD	50+36, 82' LT				1				100													
98	IC-4	FISHER RD	50+66, 78' LT						1	1	35													
98	IC-5	FISHER RD	50+66, 78' LT	60+00, 36' LT							974		974	3										
98	IC-6	FISHER RD	59+03, 49' LT								150													
FISHER RD. BETWEEN STA. 60+00 AND 71+00																								
99	IC-1	FISHER RD	60+00, 36' LT	71+00, 55' LT							1,117		1,117	2										
99	IC-2	FISHER RD	68+08, 45' LT								150													
FISHER RD. BETWEEN STA. 71+00 AND 82+00																								
100	IC-1	FISHER RD	71+00, 55' LT	73+88, 54' LT							294		294											
100	IC-4	FISHER RD	73+85, 28' RT	73+86, 29' LT		114	2				57													
100	IC-5	FISHER RD	73+85, 28' RT	79+84, 33' RT	600		1	600			600													
100	IC-3	FISHER RD	73+86, 29' LT	73+88, 54' LT	32			32			32													
100	IC-2	FISHER RD	73+88, 54' LT						1	1	35			1										
100	IC-6	FISHER RD	79+49, 33' RT				1				100													
100	IC-7	FISHER RD	79+84, 33' RT						1	1	35			1										
100	IC-8	FISHER RD	79+84, 33' RT	81+69, 28' LT							199		199											
100	IC-9	FISHER RD	81+69, 28' LT						1	1	35			1										
100	IC-10	FISHER RD	81+69, 28' LT	82+00, 28' LT	30		1	30			30													
FISHER RD. BETWEEN STA. 82+00 AND 93+00																								
101	IC-1	FISHER RD	82+00, 28' LT	88+73, 30' LT	673		1	673			673													
101	IC-2	FISHER RD	88+73, 30' LT				1				100													
101	IC-3	FISHER RD	88+73, 30' LT	93+00, 53' LT		854	1				427													
FISHER RD. (WEST MAINTENANCE) BETWEEN STA. 93+00 AND 104+00, INT FCEO FACILITY																								
102	IC-1	FISHER RD	93+00, 53' LT	98+66, 43' LT		1,136	3				568													
102	IC-2	FISHER RD	96+99, 47' LT						1	1	100													
102	IC-3	FISHER RD	98+66, 43' LT	101+44, 80' LT	315		1	315			315													
102	SE U-1	FISHER RD	101+44, 80' LT								75	144												
SHEET TOTAL					2,623	2,556	18	2,623	5	5	7,650	144	2,584	8	-	-	-	-	-	-	-	-	-	-

AERIAL SAG: 1.5% AERIAL SAG IS INCLUDED IN THE QUANTITIES FOR ANY AERIAL FIBER OR CABLE ITEMS.

3378-E

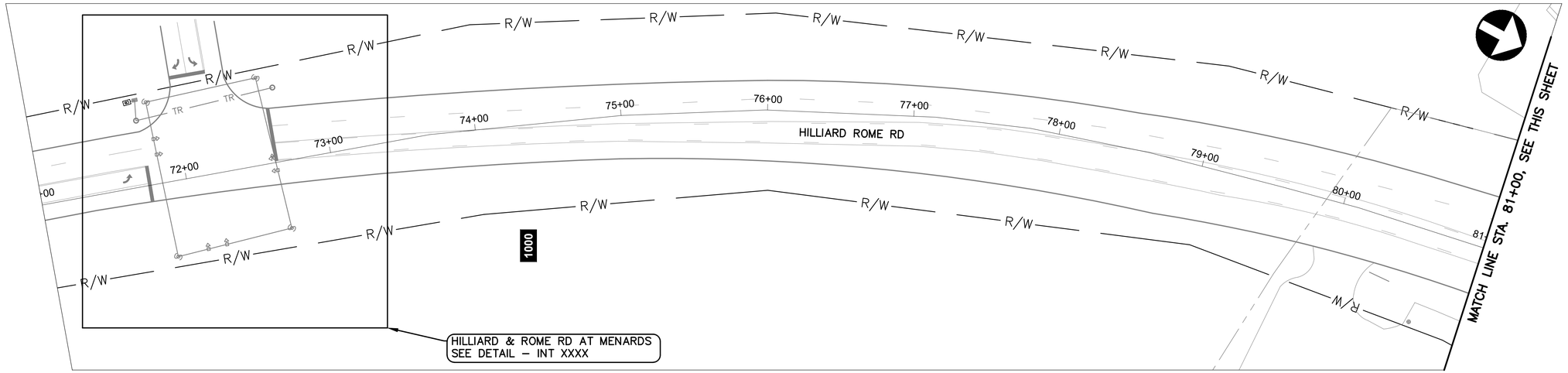
CIP: 540007-100012
PID NUMBER: 99733

FISHER RD BETWEEN STA. 38+00 & 104+00
INT FCEO FACILITY

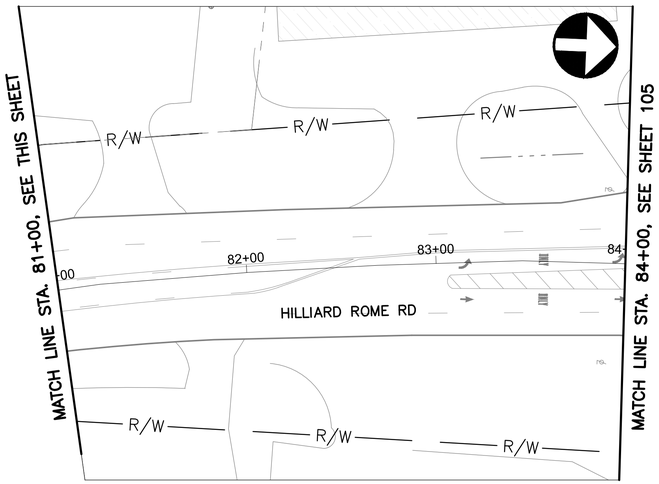
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

103
915

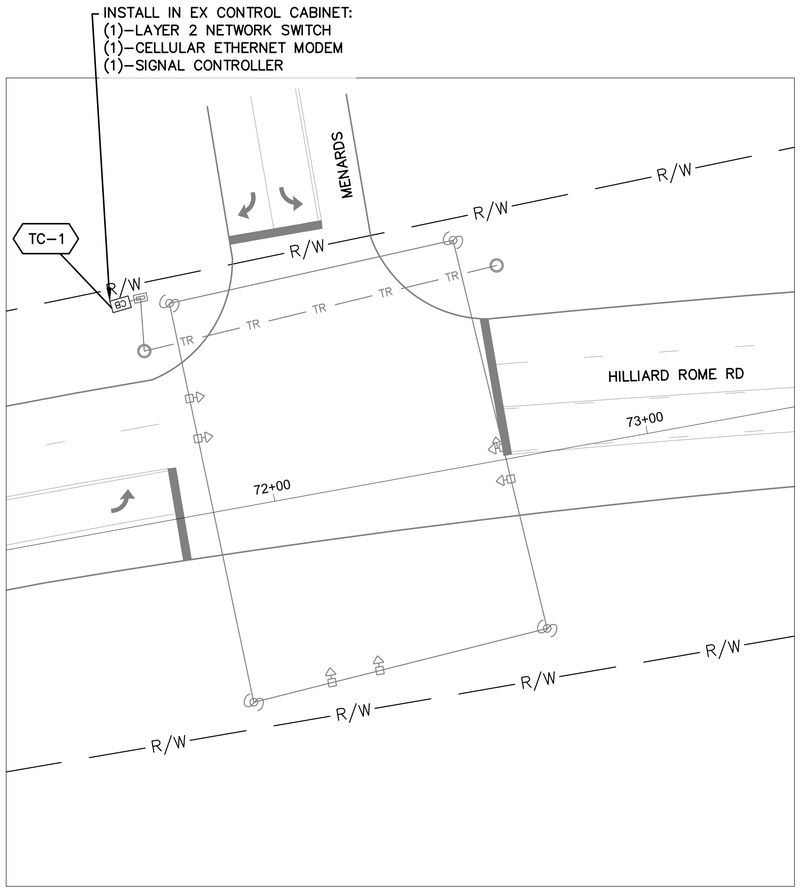
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HILLIARD & ROME RD BETWEEN STATION 71+00 AND 81+00



HILLIARD & ROME RD BETWEEN STATION 81+00 AND 84+00



DETAIL - INT XXXX

0 20 40
HORIZONTAL SCALE IN FEET

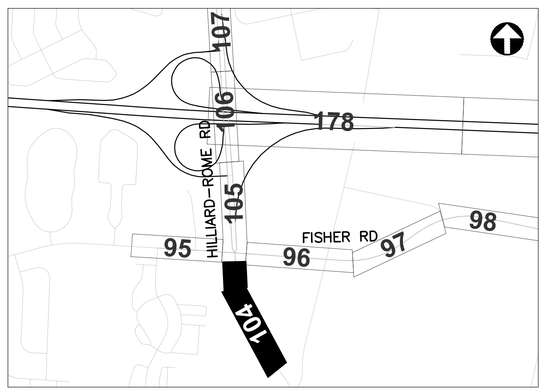
NOTES:

1. SEE SHEETS 109 & 110 FOR QUANTITIES.
2. SEE SHEETS 611 & 644 FOR COMMUNICATION DETAILS.
3. TRAFFIC SIGNAL IS STILL IN DESIGN PHASE BY FRANKLIN COUNTY ENGINEER'S OFFICE.

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CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 9 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

3378-E

0 40 80
HORIZONTAL SCALE IN FEET

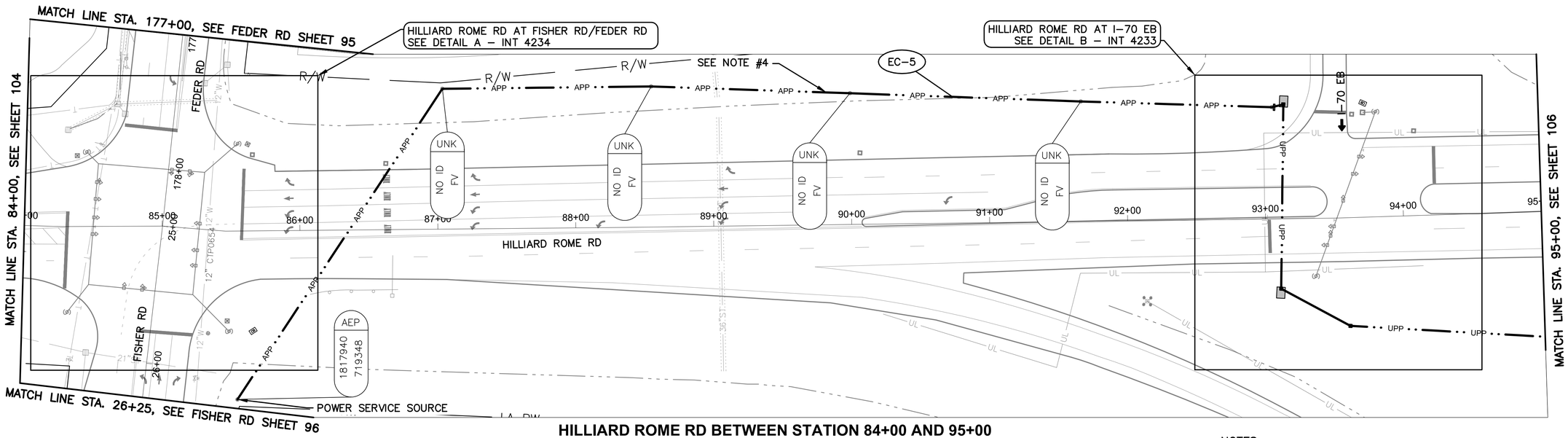
CIP: 540007–100012
PID NUMBER: 99733

INTERCONNECT PLAN
HILLIARD & ROME RD BTW STA. 81+00 AND 84+00, INT XXXX

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

104
915

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HILLIARD ROME RD BETWEEN STATION 84+00 AND 95+00

DETAIL A - INT 4234

0 20 40
HORIZONTAL SCALE IN FEET

DETAIL B - INT 4233

0 20 40
HORIZONTAL SCALE IN FEET

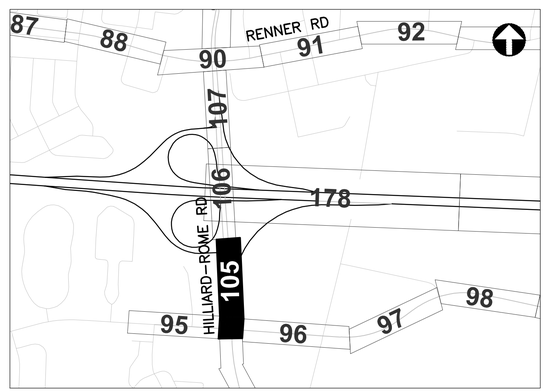
NOTES:

1. SEE SHEETS 109 & 110 FOR QUANTITIES.
2. SEE SHEETS 611, 645, & 646 FOR COMMUNICATION DETAILS.
3. LIMITED ACCESS RIGHT OF WAY LOCATED OUTSIDE OF THE EXTENT OF VIEW SHOWN ABOVE.
4. SEE SHEET 338 FOR POWER SERVICE DETAILS FOR NODE #070091.2.

(#) EXISTING UTILITY CROSSING. SEE UTILITY CROSSING INFO SHEET 17.

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CITY OF COLUMBUS UTILITY LEGEND
- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☒ LIGHTING



REFER TO SHEET 9 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

0 40 80
HORIZONTAL SCALE IN FEET

CIP: 540007–100012
PID NUMBER: 99733

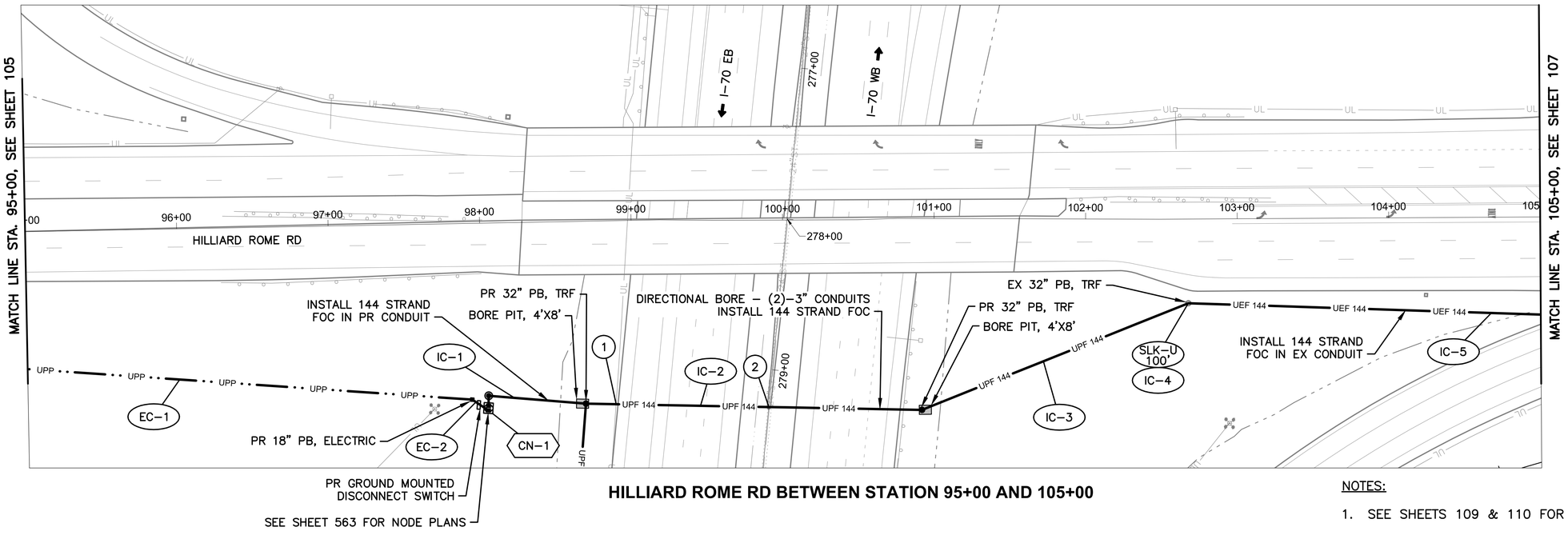
INTERCONNECT PLAN
HILLIARD ROME RD BTW STA. 84+00 AND 95+00, INTS 4233 AND 4234

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

105
915

3378-E

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HILLIARD ROME RD BETWEEN STATION 95+00 AND 105+00

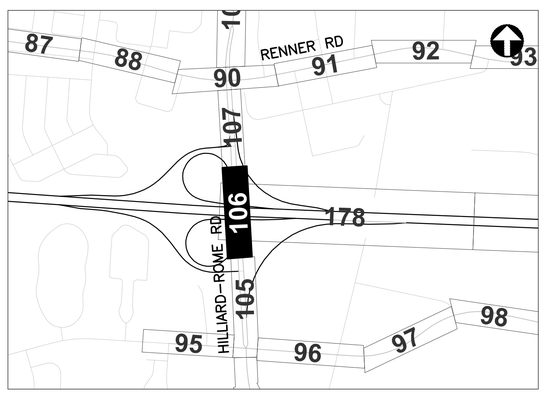
NOTES:

1. SEE SHEETS 109 & 110 FOR QUANTITIES.
2. SEE SHEET 611 FOR COMMUNICATION DETAILS.
3. LIMITED ACCESS RIGHT OF WAY IS LOCATED OUTSIDE OF THE EXTENT OF VIEW SHOWN ABOVE.
4. SEE SHEET 338 FOR POWER SERVICE DETAILS FOR NODE #070091.2.
5. COORDINATE WITH PROJECT 3258-E FOR PROPOSED FIBER OPTIC INTERCONNECT BETWEEN STA. 98+00 AND 105+00.

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CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☒ LIGHTING



REFER TO SHEET 9 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

HORIZONTAL SCALE IN FEET
0 40 80

CIP: 540007-100012
PID NUMBER: 99733

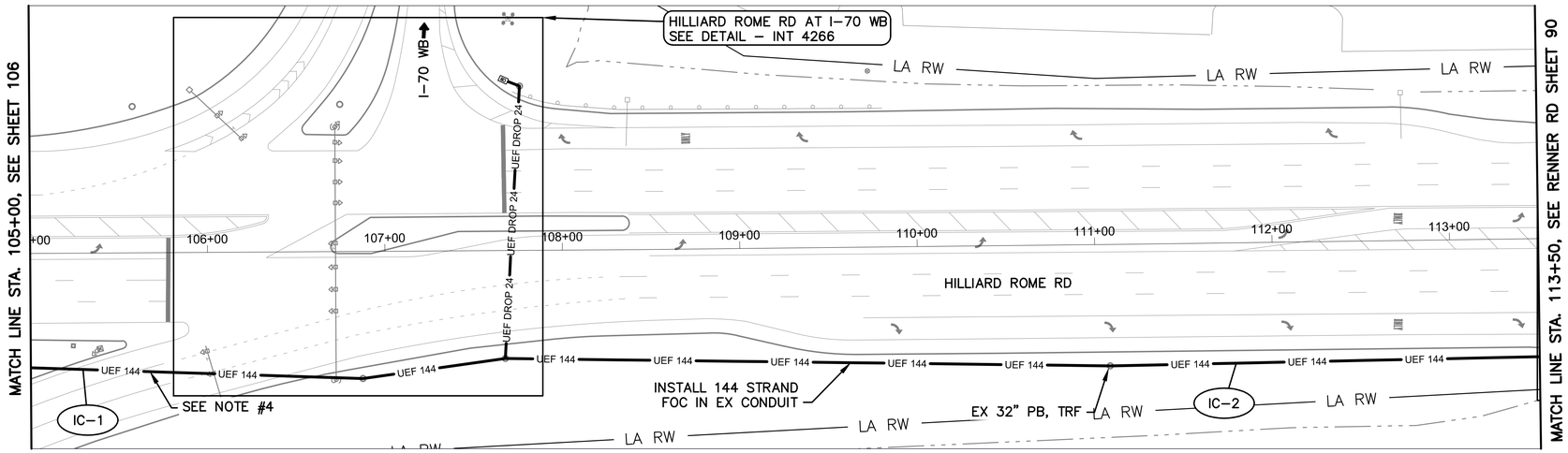
INTERCONNECT PLAN
HILLIARD ROME RD BETWEEN STA. 95+00 AND 105+00

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E - FINAL SUBMITTAL

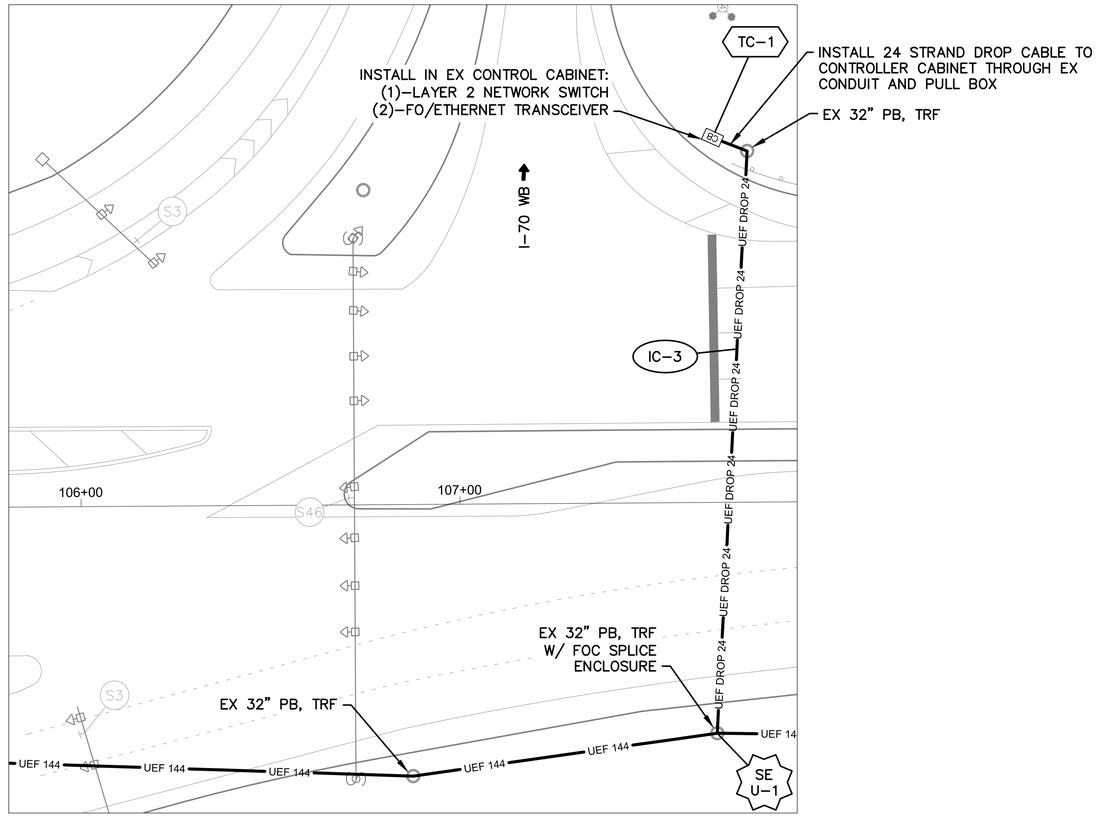
106
915

3378-E

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HILLIARD ROME RD BETWEEN STATION 105+00 AND 113+50



DETAIL - INT 4266

0 20 40
HORIZONTAL SCALE IN FEET

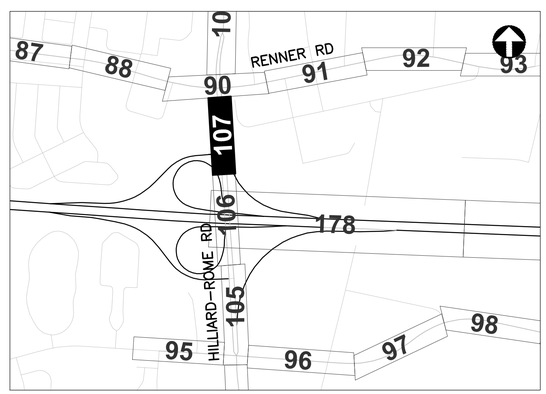
NOTES:

1. SEE SHEETS 109 & 110 FOR QUANTITIES.
2. SEE SHEETS 611 & 647 FOR COMMUNICATION DETAILS.
3. LIMITED ACCESS RIGHT OF WAY IS LOCATED OUTSIDE OF THE EXTENT OF VIEW SHOWN ABOVE.
4. COORDINATE WITH PROJECT 3258–E FOR PROPOSED FIBER OPTIC INTERCONNECT BETWEEN STA 105+00 AND 108+00.

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CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 9 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

0 40 80
HORIZONTAL SCALE IN FEET

CIP: 540007–100012
PID NUMBER: 99733

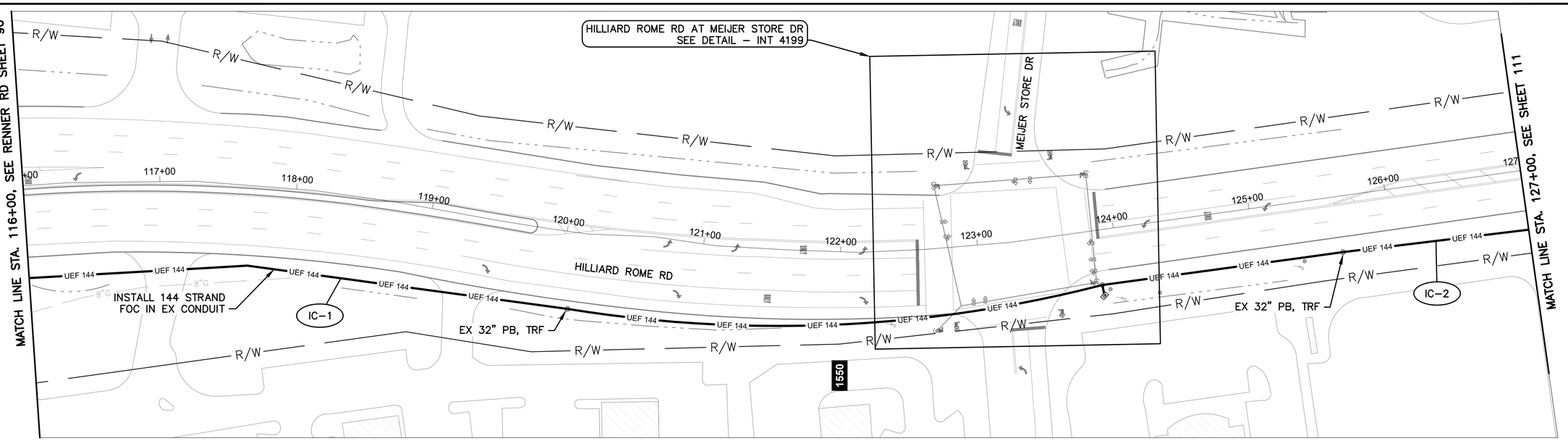
INTERCONNECT PLAN
HILLIARD ROME RD BETWEEN STA. 105+00 AND 113+50, INT 4266

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

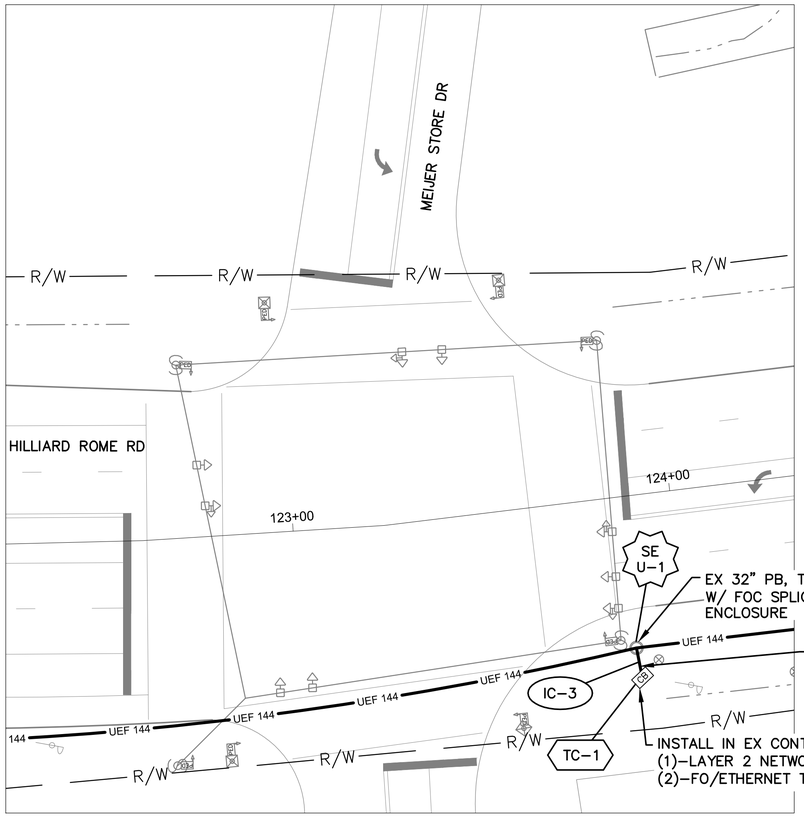
107
915

3378-E

d:\Jobs\63721 ctss phase e\TECHPROD\Sheets\CTSS_PhE_Trunk0_HILLIARD_ROME_INTERCONNECT.dwg – HILLIARD-ROME-3 layout ~ last saved by: gburch 09/05/2018 02:21pm ~ printed 09/11/2018 05:32pm PSLTS: 1 LTS: 1 CAS: 1:1



HILLIARD ROME RD BETWEEN STATION 116+00 AND 127+00



DETAIL - INT 4199

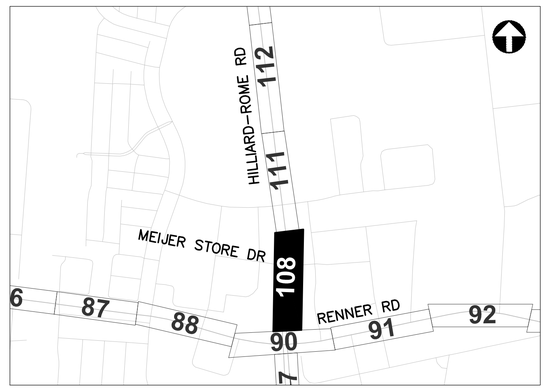
NOTES:

1. SEE SHEETS 109 & 110 FOR QUANTITIES.
2. SEE SHEETS 611 & 648 FOR COMMUNICATION DETAILS.

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CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 9 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

0 40 80
HORIZONTAL
SCALE IN FEET

CIP: 540007–100012
PID NUMBER: 99733

INTERCONNECT PLAN
HILLIARD ROME RD BETWEEN STA. 116+00 AND 127+00, INT 4199

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

108
915

3378-E

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ESTIMATED QUANTITIES

SHEET NO.	REFERENCE NO.	LOCATION	STATION		202	625	625	625	625	625	625	625	625	625	632	632	632	632	632	632	632	633
					EXISTING CONDUIT CLEANED, AS PER PLAN	CONDUIT, 2", AS PER PLAN	CONDUIT, 3", AS PER PLAN	CONDUIT, CONCRETE ENCASED, 2-3", 725.05, AS PER PLAN	CONDUIT, JACKED OR DRILLED, 3", AS PER PLAN	DISTRIBUTION CABLE, NO. 3/0	GROUND ROD	POWER SERVICE, TYPE A, AS PER PLAN	PULL BOX, 18", 725.08, AS PER PLAN	PULL BOX, CONCRETE 32", AS PER PLAN	TRENCH, 36" DEEP, AS PER PLAN	CONDUIT RISER, 2", 725.051, AS PER PLAN	INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 144 STRAND	INTERCONNECT CABLE, MISC.: FIBER OPTIC DROP CABLE, 24 STRAND	INTERCONNECT CABLE, MISC.: FIBER OPTIC FUSION SPLICE	INTERCONNECT CABLE, MISC.: TERMINATION PANEL, 24 FIBER	INTERCONNECT, MISC.: SPLICE ENCLOSURE, CLAMSHELL, 288 SPLICE	MESSENGER WIRE, 7 STRAND, 1/4" DIAMETER WITH ACCESSORIES, AS PER PLAN	SIGNALIZATION, MISC.: CELLULAR ETHERNET COMMUNICATIONS UNIT	CONTROLLER ITEM, MISC.: FIBER OPTIC ETHERNET TRANSCEIVER, SHORT RANGE
			FROM	TO	FT	FT	FT	FT	FT	FT	EACH	EACH	EACH	EACH	FT	EACH	FT	FT	EACH	EACH	EACH	FT	EACH	EACH
HILLIARD & ROME RD. BETWEEN STA. 71+00 AND 84+00, INT XXXX																								
104	TC-1	HILLIARD ROME RD	71+70, 66' LT																				1	
HILLIARD ROME RD. BETWEEN STA. 84+00 AND 95+00, INTS 4234 & 4233																								
105	EC-5	HILLIARD ROME RD	85+23, 122' RT	93+06, 81' LT						1,006												1,006		
105	TC-1	HILLIARD ROME RD	85+66, 73' RT																				1	
105	EC-4	HILLIARD ROME RD	93+06, 81' LT							35	1	1				1								
105	EC-3	HILLIARD ROME RD	93+06, 81' LT	93+14, 83' LT		9				27					9									
105	EC-2	HILLIARD ROME RD	93+11, 51' RT	93+14, 83' LT					133	399			2											
105	EC-1	HILLIARD ROME RD	93+11, 51' RT	95+00, 91' RT			153			459			1		153									
105	TC-2	HILLIARD ROME RD	93+73, 90' LT																				1	
HILLIARD ROME RD. BETWEEN STA. 95+00 AND 105+00																								
106	EC-1	HILLIARD ROME RD	95+00, 91' RT	97+93, 116' RT			295			885					295									
106	EC-2	HILLIARD ROME RD	97+93, 116' RT	98+04, 124' RT		13				39					13									
106	CN-1	HILLIARD ROME RD	98+04, 124' RT							30	2													
106	IC-1	HILLIARD ROME RD	98+04, 114' RT	98+68, 120' RT													64							
106	IC-2	HILLIARD ROME RD	98+68, 120' RT	100+92, 126' RT					444					2			222							
106	IC-3	HILLIARD ROME RD	100+92, 126' RT	102+67, 56' RT				189							189		189							
106	IC-4	HILLIARD ROME RD	102+67, 56' RT														100							
106	IC-5	HILLIARD ROME RD	102+67, 56' RT	105+00, 64' RT	233												233							
HILLIARD ROME RD. BETWEEN STA. 105+00 AND 113+50, INT 4266																								
107	IC-1	HILLIARD ROME RD	105+00, 64' RT	107+67, 61' RT	268												268							
107	SE U-1	HILLIARD ROME RD	107+67, 61' RT														150	125	24		1			
107	TC-1	HILLIARD ROME RD	107+67, 96' LT															10		1				2
107	IC-3	HILLIARD ROME RD	107+67, 96' LT	107+67, 61' RT	164													164						
107	IC-2	HILLIARD ROME RD	107+67, 61' RT	113+50, 67' RT	583												583							
HILLIARD ROME RD. BETWEEN STA. 116+00 AND 127+00, INT 4199																								
108	IC-1	HILLIARD ROME RD	116+00, 67' RT	123+86, 40' RT	788												788							
108	SE U-1	HILLIARD ROME RD	123+86, 40' RT														150	125	24		1			
108	IC-3	HILLIARD ROME RD	123+86, 40' RT	123+86, 48' RT	8													8						
108	TC-1	HILLIARD ROME RD	123+86, 48' RT															10		1				2
108	IC-2	HILLIARD ROME RD	123+86, 40' RT	127+00, 43' RT	314												314							
SHEET TOTAL					2,358	22	448	189	577	2,880	3	1	3	2	659	1	3,061	442	48	2	2	1,006	3	4

AERIAL SAG: 1.5% AERIAL SAG IS INCLUDED IN THE QUANTITIES FOR ANY AERIAL FIBER OR CABLE ITEMS.

3378-E

CIP: 540007–100012
PID NUMBER: 99733

HILLARD–ROME RD BETWEEN STA. 71+00 & 127+00
INTS XXXX, 4234, 4233, 4266, 4199

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

109
915

J:\Jobs\6372I CTSS Phase E\TECHPROD\Sheets\CTSS_PhE_Trunk0_HILLARD_ROME_IC_QUANTITIES.dwg – HILLARD–ROME RD–01 layout ~ last saved by: gburch 03/21/2018 07:59am ~ printed 09/18/2018 09:37am PSLTS: 1 LTS: 1 CAS: 1:1

ESTIMATED QUANTITIES

SHEET NO.	REFERENCE NO.	LOCATION	STATION FROM	STATION TO	633 CONTROLLER ITEM, MISC.: LAYER 2 ETHERNET SWITCH	633 CONTROLLER UNIT, TYPE TS2/A2, AS PER PLAN																		
			FROM	TO	EACH	EACH																		
HILLIARD & ROME RD. BETWEEN STA. 71+00 AND 84+00, INT XXXX																								
104	TC-1	HILLIARD ROME RD	71+70, 66' LT		1	1																		
HILLIARD ROME RD. BETWEEN STA. 84+00 AND 95+00, INTS 4234 & 4233																								
105	EC-5	HILLIARD ROME RD	85+23, 122' RT	93+06, 81' LT																				
105	TC-1	HILLIARD ROME RD	85+66, 73' RT		1																			
105	EC-4	HILLIARD ROME RD	93+06, 81' LT																					
105	EC-3	HILLIARD ROME RD	93+06, 81' LT	93+14, 83' LT																				
105	EC-2	HILLIARD ROME RD	93+11, 51' RT	93+14, 83' LT																				
105	EC-1	HILLIARD ROME RD	93+11, 51' RT	95+00, 91' RT																				
105	TC-2	HILLIARD ROME RD	93+73, 90' LT		1																			
HILLIARD ROME RD. BETWEEN STA. 95+00 AND 105+00																								
106	EC-1	HILLIARD ROME RD	95+00, 91' RT	97+93, 116' RT																				
106	EC-2	HILLIARD ROME RD	97+93, 116' RT	98+04, 124' RT																				
106	CN-1	HILLIARD ROME RD	98+04, 124' RT																					
106	IC-1	HILLIARD ROME RD	98+04, 114' RT	98+68, 120' RT																				
106	IC-2	HILLIARD ROME RD	98+68, 120' RT	100+92, 126' RT																				
106	IC-3	HILLIARD ROME RD	100+92, 126' RT	102+67, 56' RT																				
106	IC-4	HILLIARD ROME RD	102+67, 56' RT																					
106	IC-5	HILLIARD ROME RD	102+67, 56' RT	105+00, 64' RT																				
HILLIARD ROME RD. BETWEEN STA. 105+00 AND 113+50, INT 4266																								
107	IC-1	HILLIARD ROME RD	105+00, 64' RT	107+67, 61' RT																				
107	SE U-1	HILLIARD ROME RD	107+67, 61' RT																					
107	TC-1	HILLIARD ROME RD	107+67, 96' LT		1																			
107	IC-3	HILLIARD ROME RD	107+67, 96' LT	107+67, 61' RT																				
107	IC-2	HILLIARD ROME RD	107+67, 61' RT	113+50, 67' RT																				
HILLIARD ROME RD. BETWEEN STA. 116+00 AND 127+00, INT 4199																								
108	IC-1	HILLIARD ROME RD	116+00, 67' RT	123+86, 40' RT																				
108	SE U-1	HILLIARD ROME RD	123+86, 40' RT																					
108	IC-3	HILLIARD ROME RD	123+86, 40' RT	123+86, 48' RT																				
108	TC-1	HILLIARD ROME RD	123+86, 48' RT		1																			
108	IC-2	HILLIARD ROME RD	123+86, 40' RT	127+00, 43' RT																				
SHEET TOTAL					5	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

AERIAL SAG: 1.5% AERIAL SAG IS INCLUDED IN THE QUANTITIES FOR ANY AERIAL FIBER OR CABLE ITEMS.

3378-E

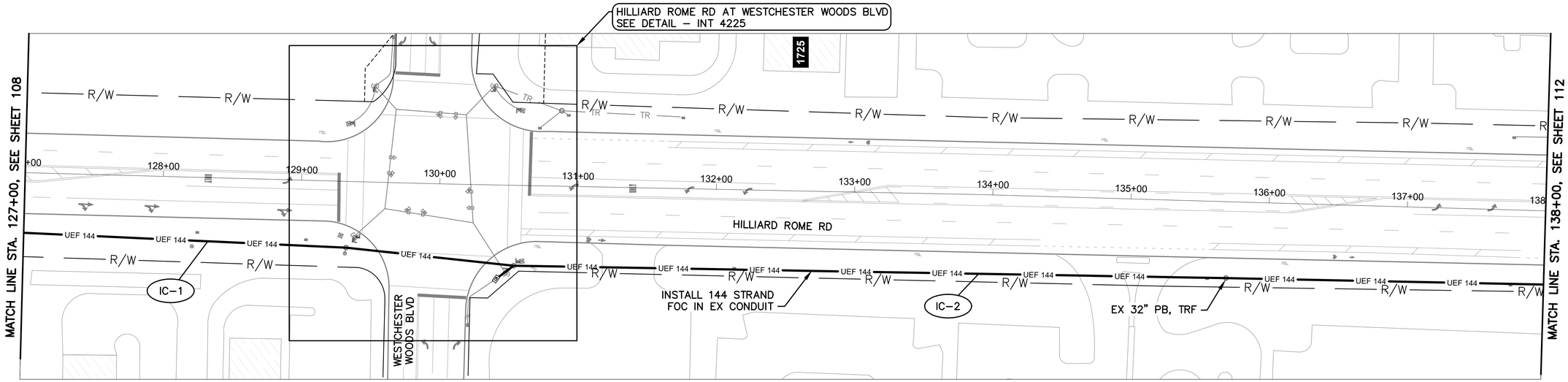
CIP: 540007–100012
PID NUMBER: 99733

HILLARD–ROME RD BETWEEN STA. 71+00 & 127+00
INTS XXXX, 4234, 4233, 4266, 4199

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

110
915

J:\Jobs\63721 CTSS Phase E\TECHPROD\Sheets\CTSS_PhE_Trunk0_HILLARD_ROME_IC_QUANTITIES.dwg – HILLARD–ROME RD–01B layout ~ last saved by: gburch 03/21/2018 07:59am ~ printed 09/18/2018 09:37am PSLTS: 1 LTS: 1 CAS: 1:1



HILLIARD ROME RD BETWEEN STATION 127+00 AND 138+00

DETAIL - INT 4225

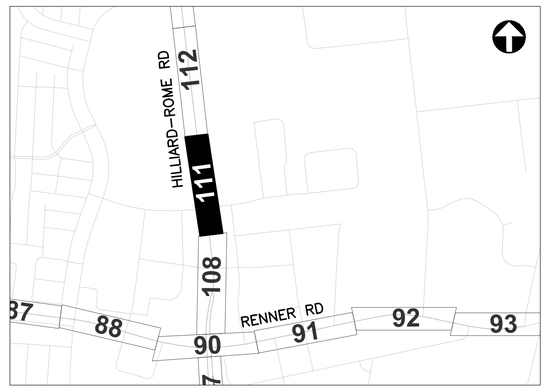
0 20 40
HORIZONTAL SCALE IN FEET

NOTES:

1. SEE SHEET 117 FOR QUANTITIES.
2. SEE SHEETS 611 & 649 FOR COMMUNICATION DETAILS.
3. EXISTING EASEMENT FOR TRAFFIC CONTROL DEVICES SHOWN PER INSTRUMENT #190001010010554.

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- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 9 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

0 40 80
HORIZONTAL SCALE IN FEET

CIP: 540007–100012
PID NUMBER: 99733

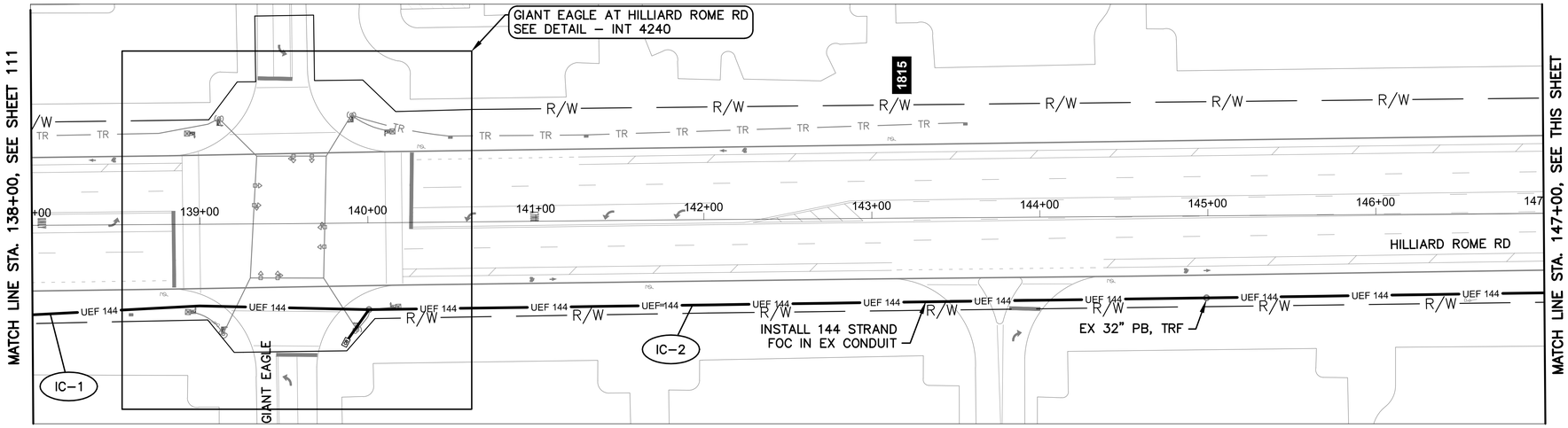
INTERCONNECT PLAN
HILLIARD ROME RD BETWEEN STA. 127+00 AND 138+00, INT 4225

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

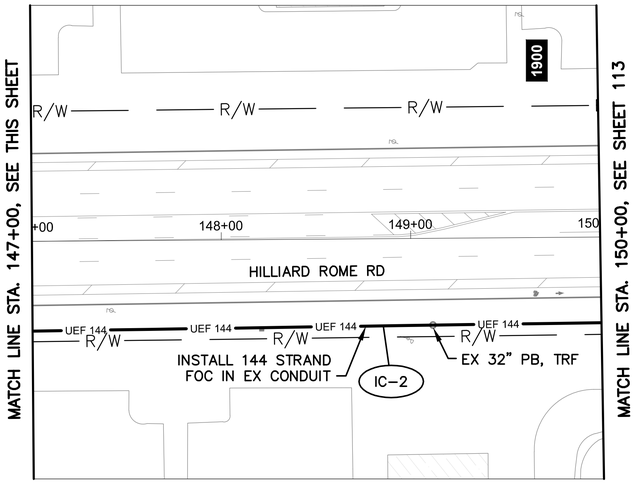
111
915

3378-E

j:\Jobs\63721 ctss phase e\TECHPROD\Sheets\CTSS_PhE_Trunk0_HILLIARD_ROME_INTERCONNECT.dwg ~ HILLIARD–ROME–5 layout ~ last saved by: gburch 09/05/2018 02:21pm ~ printed 09/11/2018 05:37pm PSLTS: 1 LTS: 1 CAS: 1:1



HILLIARD ROME RD BETWEEN STATION 138+00 AND 147+00



HILLIARD ROME RD BETWEEN STATION 147+00 AND 150+00

DETAIL - INT 4240

0 20 40
HORIZONTAL
SCALE IN FEET

NOTES:

1. SEE SHEET 117 FOR QUANTITIES.
2. SEE SHEETS 611 & 650 FOR COMMUNICATION DETAILS.

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CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 9 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

3378-E

0 40 80
HORIZONTAL
SCALE IN FEET

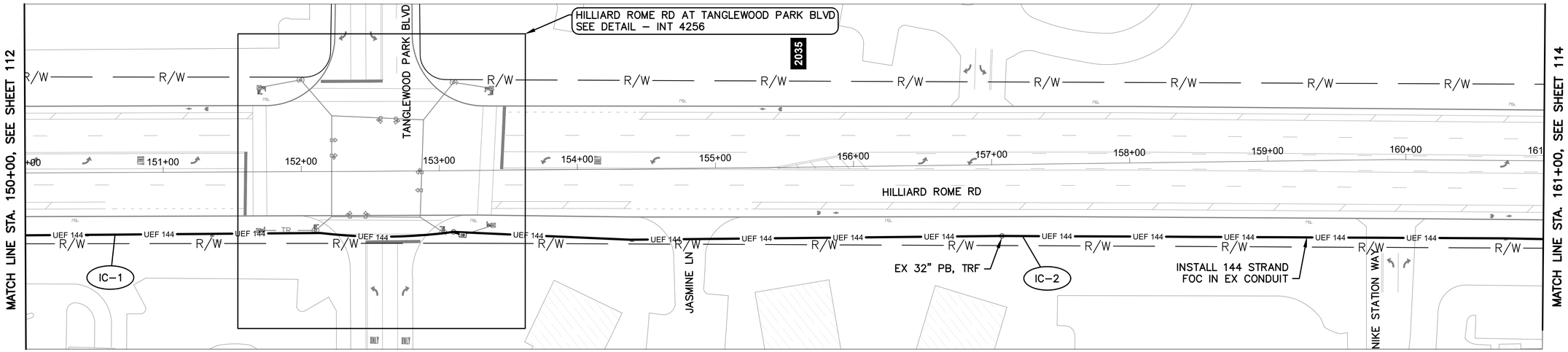
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PID NUMBER: 99733

INTERCONNECT PLAN
HILLIARD ROME RD BETWEEN STA. 138+00 AND 150+00, INT 4240

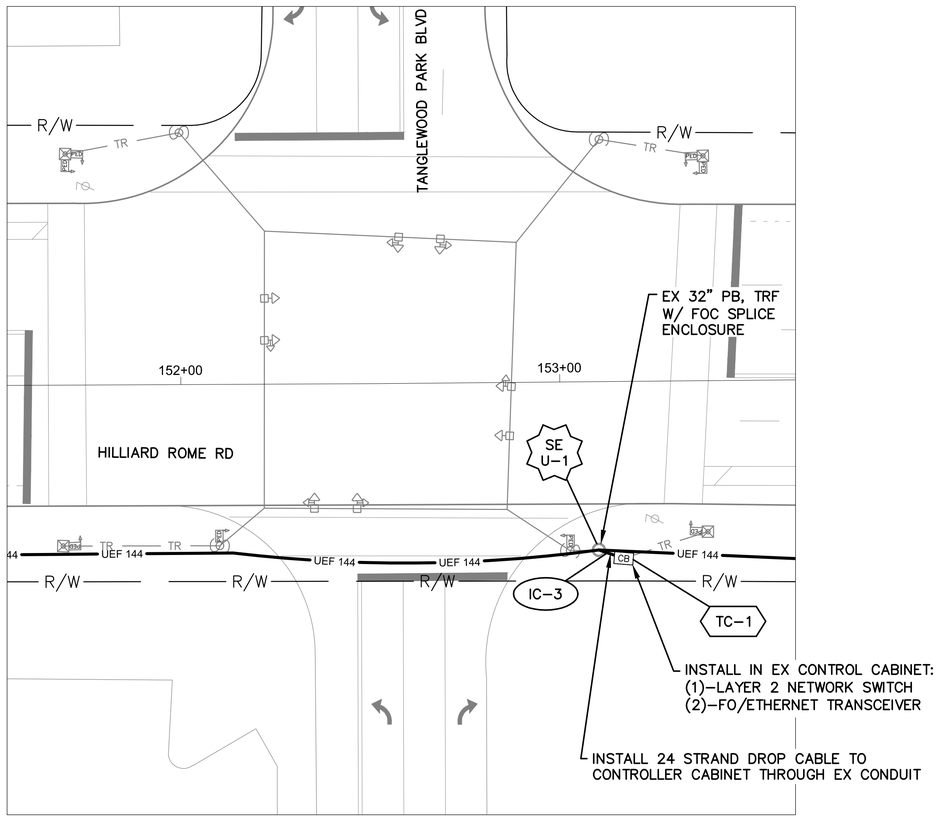
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

112
915

J:\Jobs\63721 ctss phase e\TECHPROD\Sheets\CTSS_PhE_Trunk0_HILLIARD_ROME_INTERCONNECT.dwg ~ HILLIARD–ROME–6 layout ~ last saved by: gburch 09/05/2018 02:21pm ~ printed 09/11/2018 05:41pm PSLTS: 1 LTS: 1 CAS: 1:1



HILLIARD ROME RD BETWEEN STATION 150+00 AND 161+00



DETAIL - INT 4256

0 20 40
HORIZONTAL
SCALE IN FEET

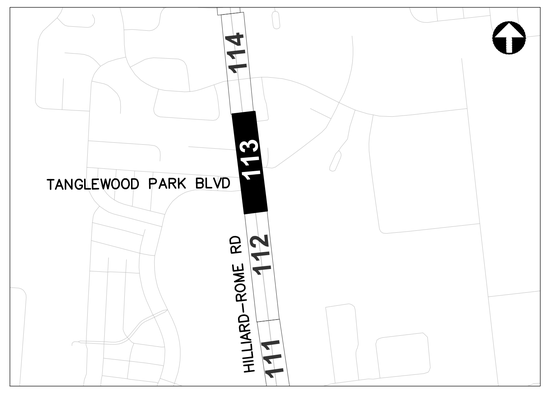
NOTES:

1. SEE SHEET 117 FOR QUANTITIES.
2. SEE SHEETS 612 & 651 FOR COMMUNICATION DETAILS.

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CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 9 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

0 40 80
HORIZONTAL
SCALE IN FEET

CIP: 540007–100012
PID NUMBER: 99733

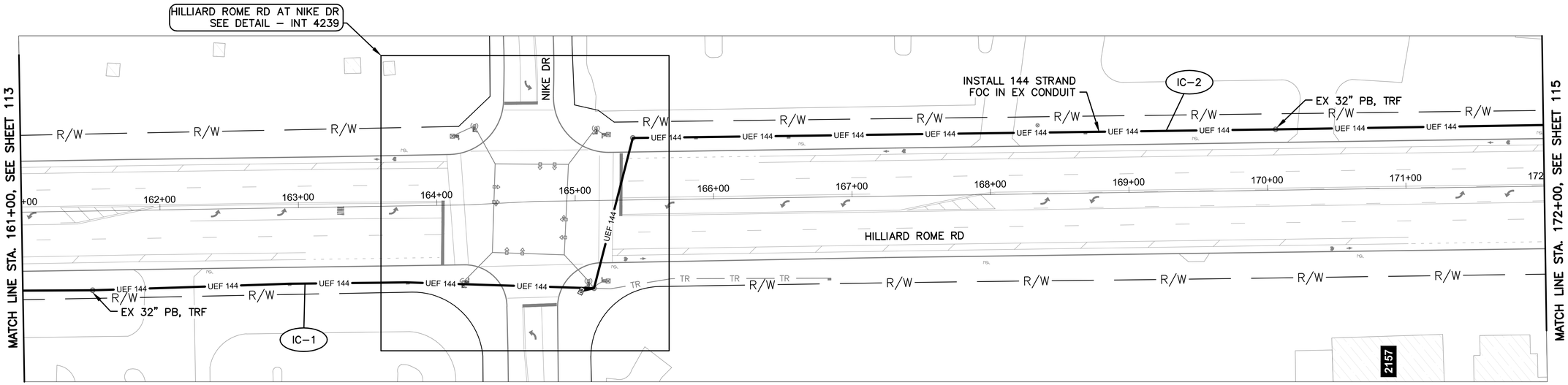
INTERCONNECT PLAN
HILLIARD ROME RD BETWEEN STA. 150+00 AND 161+00, INT 4256

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

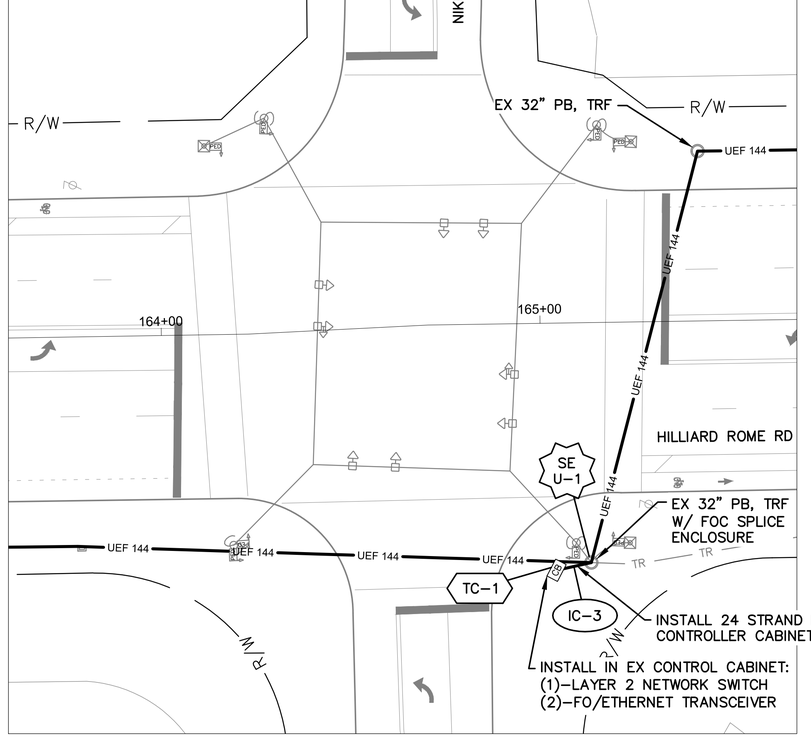
113
915

3378-E

J:\Jobs\63721 ctss phase e\TECHPROD\Sheets\CTSS_PhE_Trunk0_HILLIARD_ROME_INTERCONNECT.dwg – HILLIARD–ROME–7 layout ~ last saved by: gburch 09/05/2018 02:21pm ~ printed 09/11/2018 05:43pm PSLTS: 1 LTS: 1 CAS: 1:1



HILLIARD ROME RD BETWEEN STATION 161+00 AND 172+00



DETAIL - INT 4239

0 20 40
HORIZONTAL SCALE IN FEET

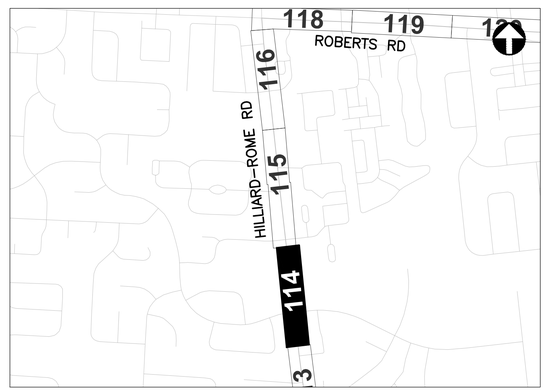
NOTES:

1. SEE SHEET 117 FOR QUANTITIES.
2. SEE SHEETS 612 & 652 FOR COMMUNICATION DETAILS.

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CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 9 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

0 40 80
HORIZONTAL SCALE IN FEET

CIP: 540007–100012
PID NUMBER: 99733

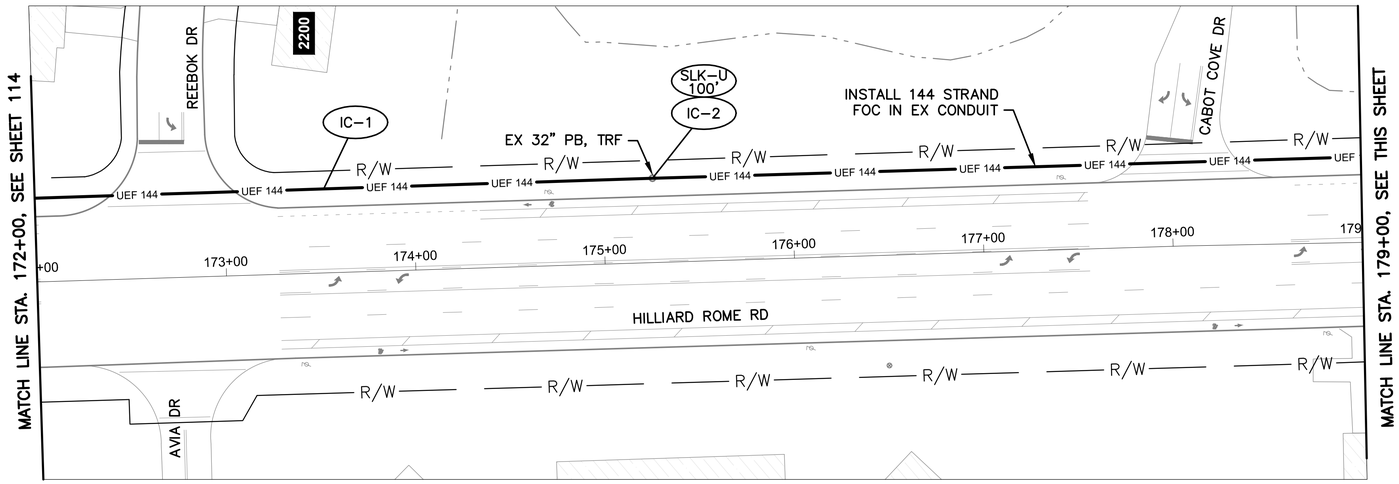
INTERCONNECT PLAN
HILLIARD ROME RD BETWEEN STA. 161+00 AND 172+00, INT 4239

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

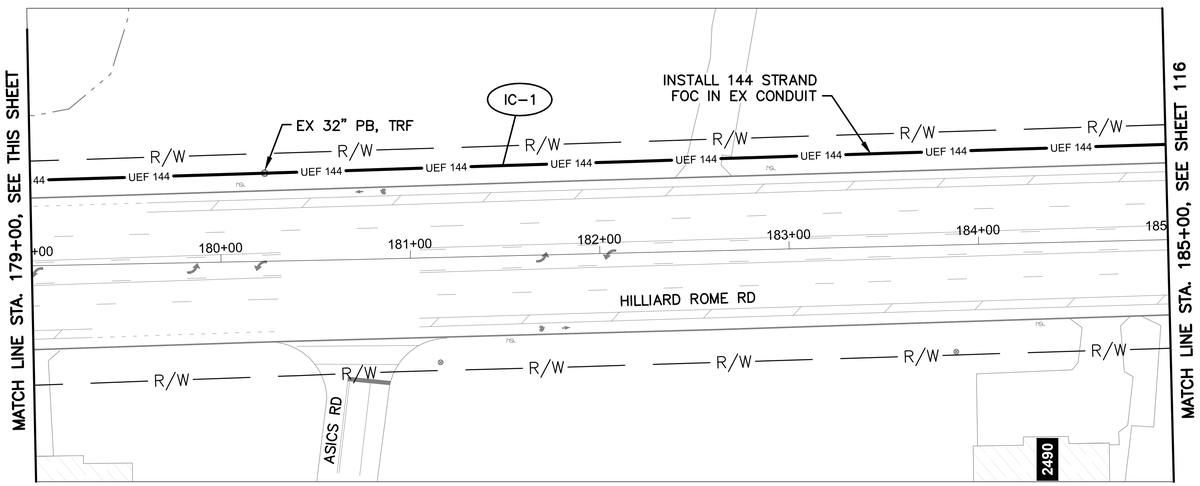
3378-E

114
915

J:\Jobs\63721 ctss phase e\TECHPROD\Sheets\CTSS_PhE_Trunk0_HILLIARD_ROME_INTERCONNECT.dwg ~ HILLIARD–ROME–8 layout ~ last saved by: gburch 09/05/2018 02:21pm ~ printed 09/11/2018 05:46pm PSLTS: 1 LTS: 1 CAS: 1:1



HILLIARD ROME RD BETWEEN STATION 172+00 AND 179+00



HILLIARD ROME RD BETWEEN STATION 179+00 AND 185+00

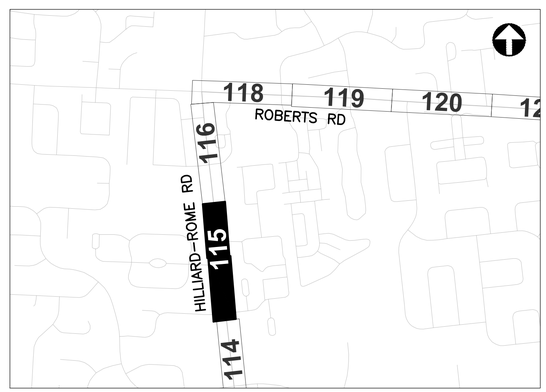
NOTES:

1. SEE SHEET 117 FOR QUANTITIES.
2. SEE SHEET 612 FOR COMMUNICATION DETAILS.

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CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 9 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

HORIZONTAL SCALE IN FEET
0 40 80

CIP: 540007–100012
PID NUMBER: 99733

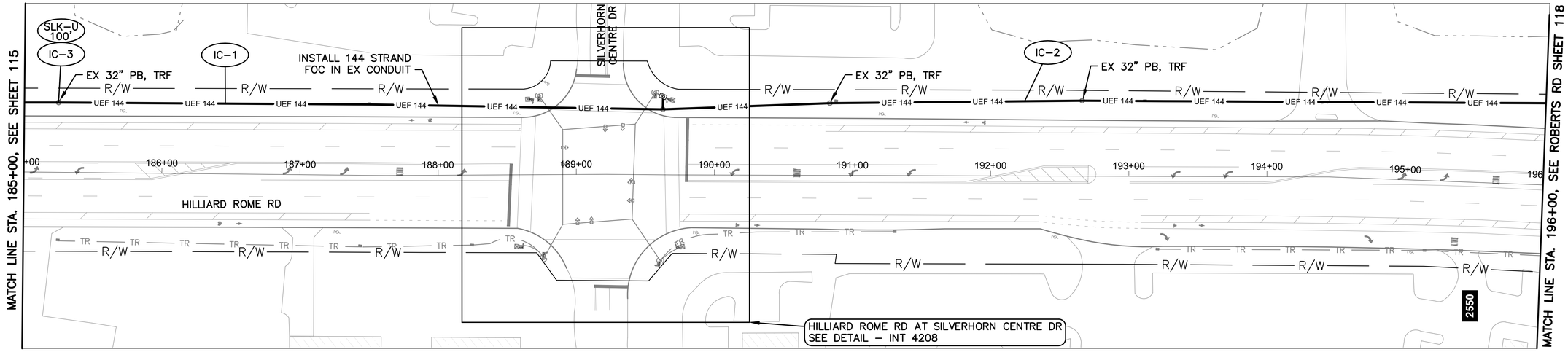
INTERCONNECT PLAN
HILLIARD ROME RD BETWEEN STA. 172+00 AND 185+00

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

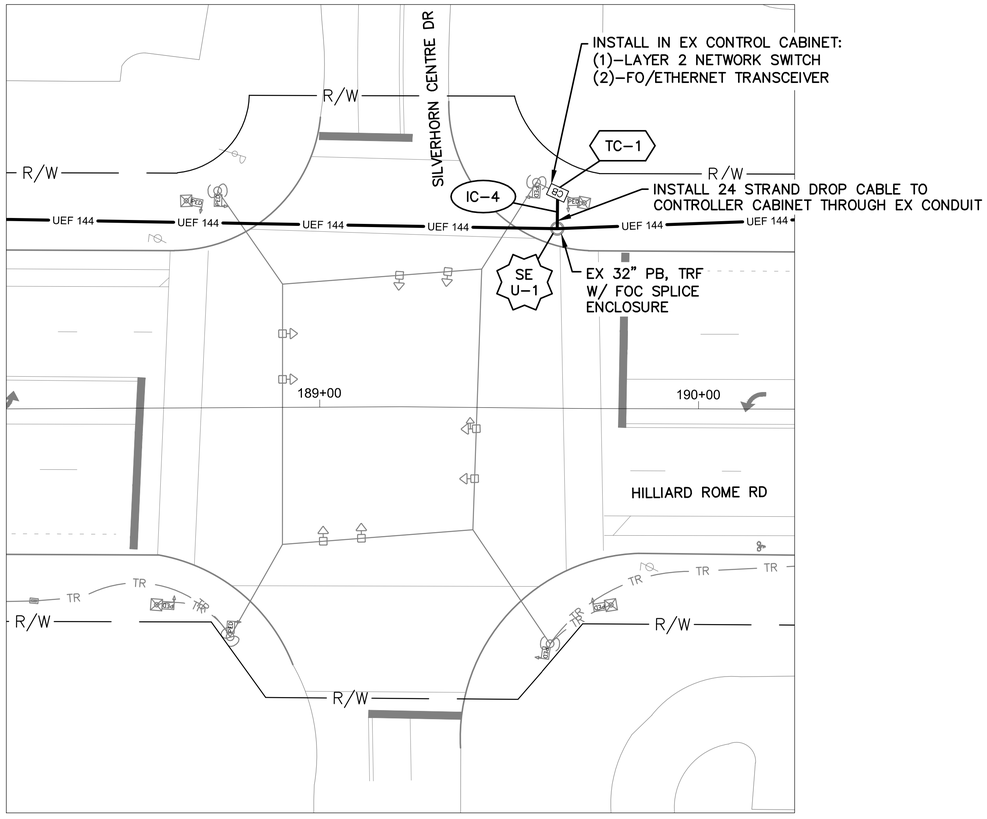
3378-E

115
915

J:\Jobs\63721 ctss phase e\TECHPROD\Sheets\CTSS_PhE_Trunk0_HILLIARD_ROME_INTERCONNECT.dwg – HILLIARD–ROME–9 layout ~ last saved by: gburch 09/05/2018 02:21pm ~ printed 09/11/2018 05:48pm PSLTS: 1 LTS: 1 CAS: 1:1



HILLIARD ROME RD BETWEEN STATION 185+00 AND 196+00



DETAIL - INT 4208

0 20 40
HORIZONTAL
SCALE IN FEET

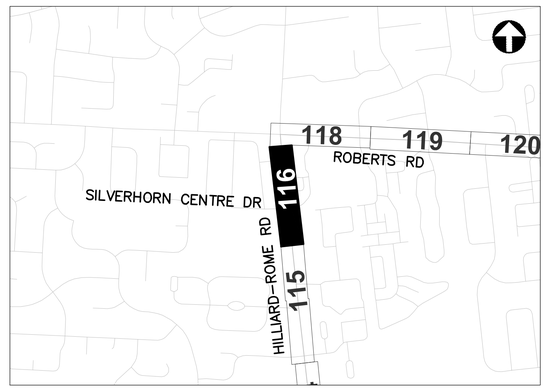
NOTES:

1. SEE SHEET 117 FOR QUANTITIES.
2. SEE SHEETS 612 & 653 FOR COMMUNICATION DETAILS.

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CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 9 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

0 40 80
HORIZONTAL
SCALE IN FEET

CIP: 540007–100012
PID NUMBER: 99733

INTERCONNECT PLAN
HILLIARD ROME RD BETWEEN STA. 185+00 AND 196+00, INT 4208

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

116
915

3378-E

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ESTIMATED QUANTITIES

SHEET NO.	REFERENCE NO.	LOCATION	STATION		202	632	632	632	632	632	633	633												
					EXISTING CONDUIT CLEANED, AS PER PLAN	INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 144 STRAND	INTERCONNECT CABLE, MISC.: FIBER OPTIC DROP CABLE, 24 STRAND	INTERCONNECT CABLE, MISC.: FIBER OPTIC FUSION SPLICE	INTERCONNECT CABLE, MISC.: TERMINATION PANEL, 24 FIBER	INTERCONNECT, MISC.: SPLICE ENCLOSURE, CLAMSHELL, 288 SPLICE	CONTROLLER ITEM, MISC.: FIBER OPTIC ETHERNET TRANSCEIVER, SHORT RANGE	CONTROLLER ITEM, MISC.: LAYER 2 ETHERNET SWITCH											
			FROM	TO	FT	FT	FT	EACH	EACH	EACH	EACH	EACH												
HILLIARD ROME RD. BETWEEN STA. 127+00 AND 138+00, INT 4225																								
111	IC-1	HILLIARD ROME RD	127+00, 43' RT	130+54, 58' RT	355	355																		
111	TC-1	HILLIARD ROME RD	130+41, 68' RT				10		1		2	1												
111	IC-3	HILLIARD ROME RD	130+41, 68' RT	130+54, 58' RT	16		16																	
111	IC-2	HILLIARD ROME RD	130+54, 58' RT	138+00, 53' RT	745	745																		
111	SE U-1	HILLIARD ROME RD	130+54, 58' RT			150	125	24		1														
HILLIARD ROME RD. BETWEEN STA. 138+00 AND 150+00, INT 4240																								
112	IC-1	HILLIARD ROME RD	138+00, 53' RT	140+00, 52' RT	200	200																		
112	TC-1	HILLIARD ROME RD	139+86, 71' RT				10		1		2	1												
112	IC-3	HILLIARD ROME RD	139+86, 71' RT	140+00, 52' RT	24		24																	
112	SE U-1	HILLIARD ROME RD	140+00, 52' RT			150	125	24		1														
112	IC-2	HILLIARD ROME RD	140+00, 52' RT	150+00, 45' RT	1,000	1,000																		
HILLIARD ROME RD. BETWEEN STA. 150+00 AND 161+00, INT 4256																								
113	IC-1	HILLIARD ROME RD	150+00, 45' RT	153+09, 44' RT	310	310																		
113	SE U-1	HILLIARD ROME RD	153+09, 44' RT			150	125	24		1														
113	IC-3	HILLIARD ROME RD	153+09, 44' RT	153+16, 47' RT	7		7																	
113	IC-2	HILLIARD ROME RD	153+09, 44' RT	161+00, 57' RT	789	789																		
113	TC-1	HILLIARD ROME RD	153+16, 47' RT				10		1		2	1												
HILLIARD ROME RD. BETWEEN STA. 161+00 AND 172+00, INT 4239																								
114	IC-1	HILLIARD ROME RD	161+00, 57' RT	165+12, 63' RT	413	413																		
114	TC-1	HILLIARD ROME RD	165+03, 65' RT				10		1		2	1												
114	IC-3	HILLIARD ROME RD	165+03, 65' RT	165+12, 63' RT	9		9																	
114	IC-2	HILLIARD ROME RD	165+12, 63' RT	172+00, 44' LT	770	770																		
114	SE U-1	HILLIARD ROME RD	165+12, 63' RT			150	125	24		1														
HILLIARD ROME RD. BETWEEN STA. 172+00 AND 185+00																								
115	IC-1	HILLIARD ROME RD	172+00, 44' LT	185+00, 50' LT	1,300	1,300																		
115	IC-2	HILLIARD ROME RD	175+26, 44' LT			100																		
HILLIARD ROME RD. BETWEEN STA. 185+00 AND 196+00, INT 4208																								
116	IC-1	HILLIARD ROME RD	185+00, 50' LT	189+62, 47' LT	462	462																		
116	IC-3	HILLIARD ROME RD	185+24, 51' LT			100																		
116	SE U-1	HILLIARD ROME RD	189+62, 47' LT			150	125	24		1														
116	IC-4	HILLIARD ROME RD	189+62, 47' LT	189+62, 57' LT	9		9																	
116	IC-2	HILLIARD ROME RD	189+62, 47' LT	196+00, 59' LT	641	641																		
116	TC-1	HILLIARD ROME RD	189+62, 57' LT				10		1		2	1												
SHEET TOTAL					7,050	7,935	740	120	5	5	10	5	-	-	-	-	-	-	-	-	-	-	-	-

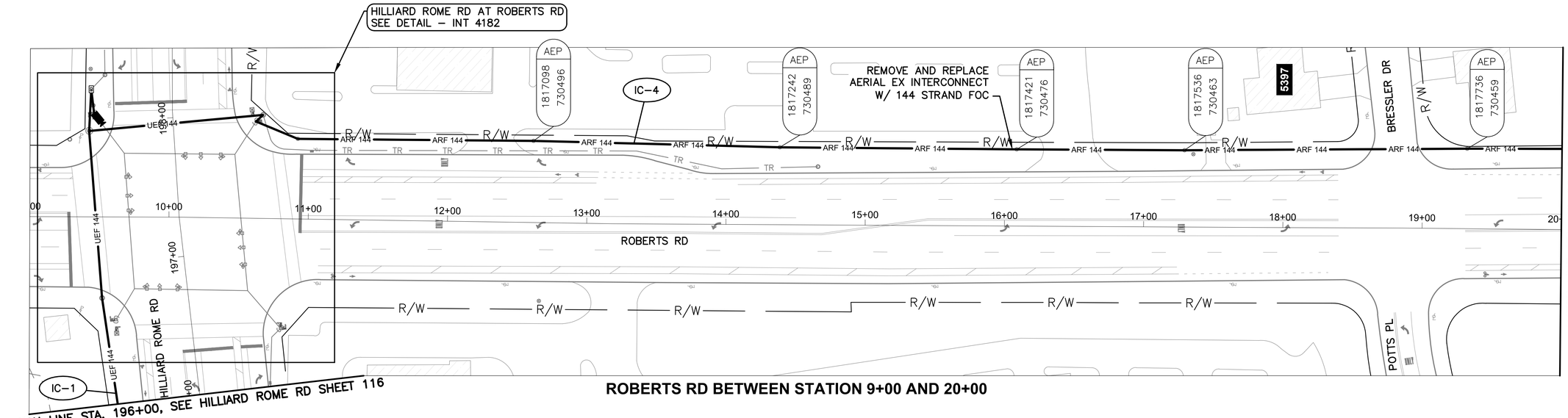
AERIAL SAG: 1.5% AERIAL SAG IS INCLUDED IN THE QUANTITIES FOR ANY AERIAL FIBER OR CABLE ITEMS.

CIP: 540007–100012
PID NUMBER: 99733

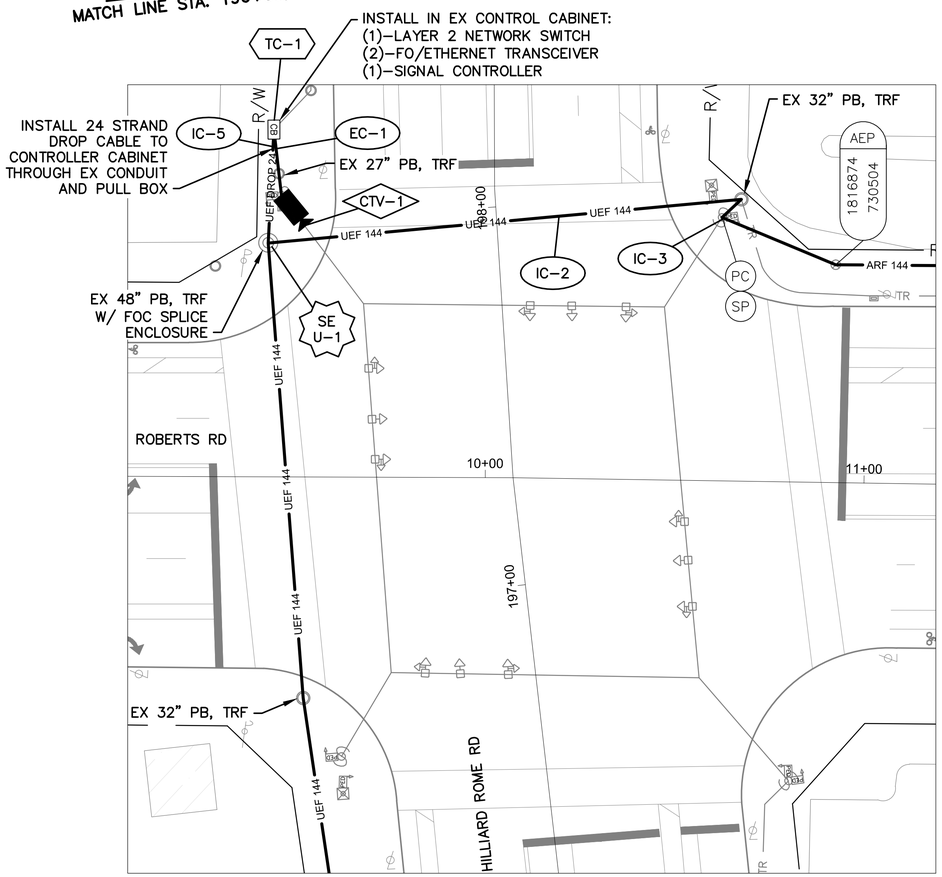
HILLIARD–ROME RD BETWEEN STA. 127+00 & 196+00
INTS 4225, 4240, 4256, 4239, 4208

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

J:\Jobs\63721 CTSS Phase E\TECHPROD\Sheets\CTSS_PhE_Trunk0_HILLARD_ROME_JC_QUANTITIES.dwg ~ HILLARD–ROME RD–Q2 layout ~ last saved by: gburch 03/21/2018 07:59am ~ printed 09/18/2018 09:36am PSLTS: 1 LTS: 1 CAS: 1:1

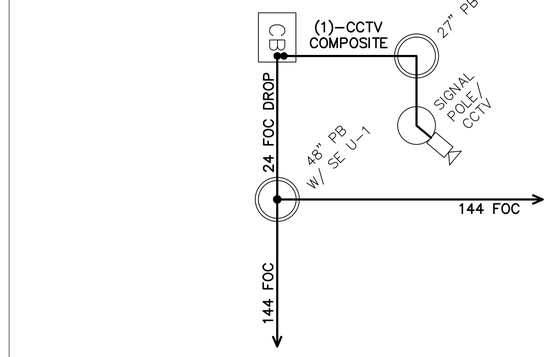


ROBERTS RD BETWEEN STATION 9+00 AND 20+00



DETAIL - INT 4182

0 20 40
HORIZONTAL SCALE IN FEET



CABLE SCHEMATIC - INT 4182

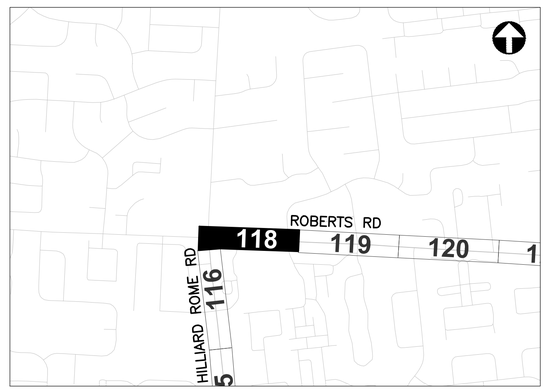
NOT TO SCALE

NOTES:

1. SEE SHEET 124 FOR QUANTITIES.
2. SEE SHEETS 612 & 654 FOR COMMUNICATION DETAILS.

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CITY OF COLUMBUS UTILITY LEGEND
- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 9 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

3378-E

0 40 80
HORIZONTAL SCALE IN FEET

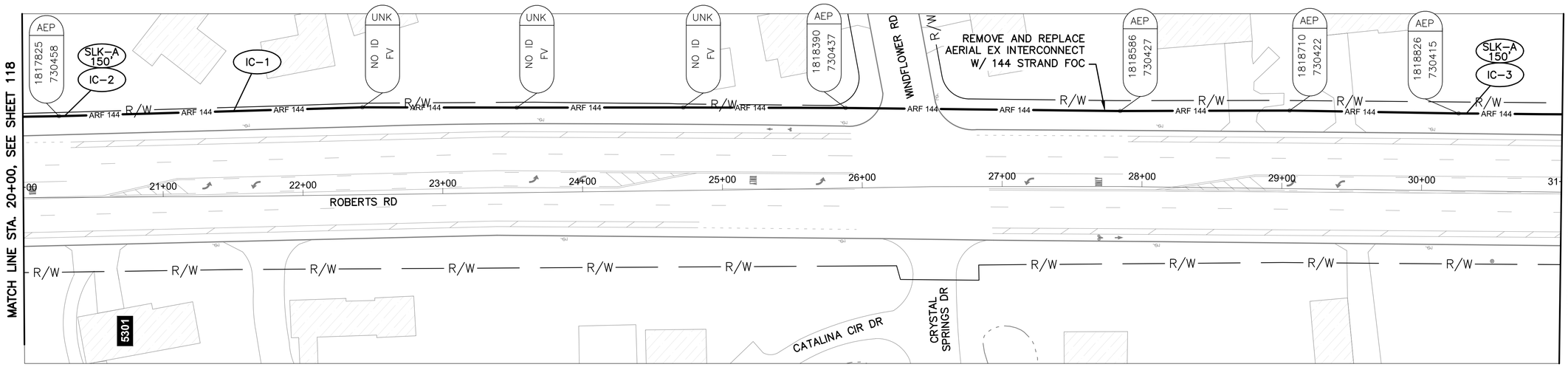
CIP: 540007–100012
PID NUMBER: 99733

INTERCONNECT PLAN
ROBERTS RD BETWEEN STA. 9+00 AND 20+00, INT 4182

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

118
915

J:\Jobs\6372\ CTSS Phase E\TECHPROD\Sheets\CTSS_PhE_Trunk0_ROBERTS_INTERCONNECT.dwg – ROBERTS–2 layout ~ last saved by: gburch 09/13/2018 03:27pm ~ printed 09/13/2018 04:50pm PSLTS: 1 LTS: 1 CAS: 1:1



ROBERTS RD BETWEEN STATION 20+00 AND 31+00

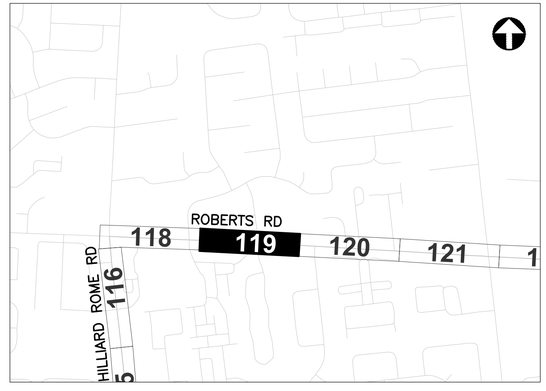
NOTES:

1. SEE SHEET 124 FOR QUANTITIES.
2. SEE SHEET 612 FOR COMMUNICATION DETAILS.

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CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 9 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

3378-E

HORIZONTAL SCALE IN FEET
0 40 80

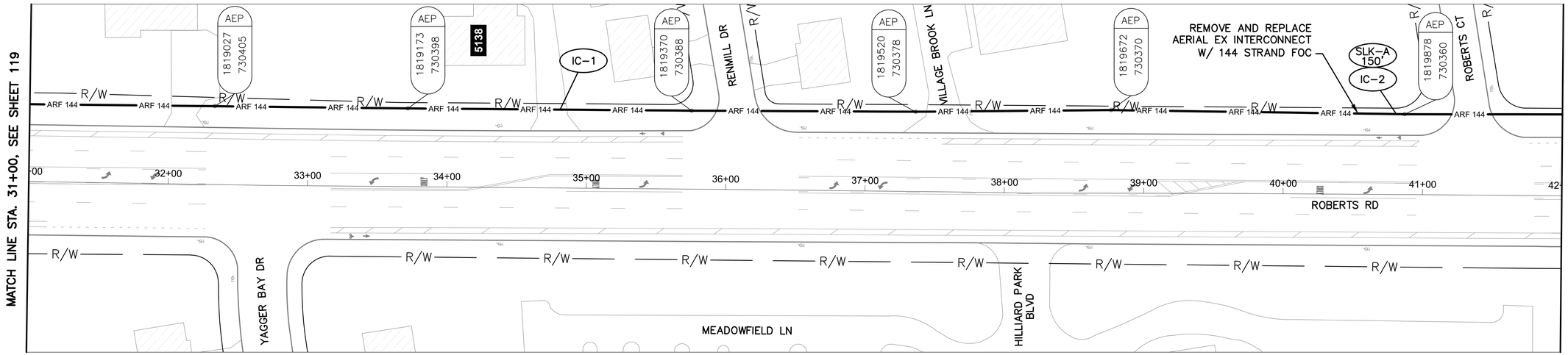
CIP: 540007-100012
PID NUMBER: 99733

INTERCONNECT PLAN
ROBERTS RD BETWEEN STA. 20+00 AND 31+00

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

119
915

J:\Jobs\63721 ctss phase e\TECHPROD\Sheets\CTSS_PhE_Trunk0_ROBERTS_INTERCONNECT.dwg – ROBERTS-3 layout ~ last saved by gburch 06/15/2018 08:02am ~ printed 09/11/2018 05:54pm PSLTS: 1 LTS: 1 CAS: 1:1



ROBERTS RD BETWEEN STATION 31+00 AND 42+00

NOTES:

1. SEE SHEET 124 FOR QUANTITIES.
2. SEE SHEET 612 FOR COMMUNICATION DETAILS.

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CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 9 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

3378-E

0 40 80
HORIZONTAL SCALE IN FEET

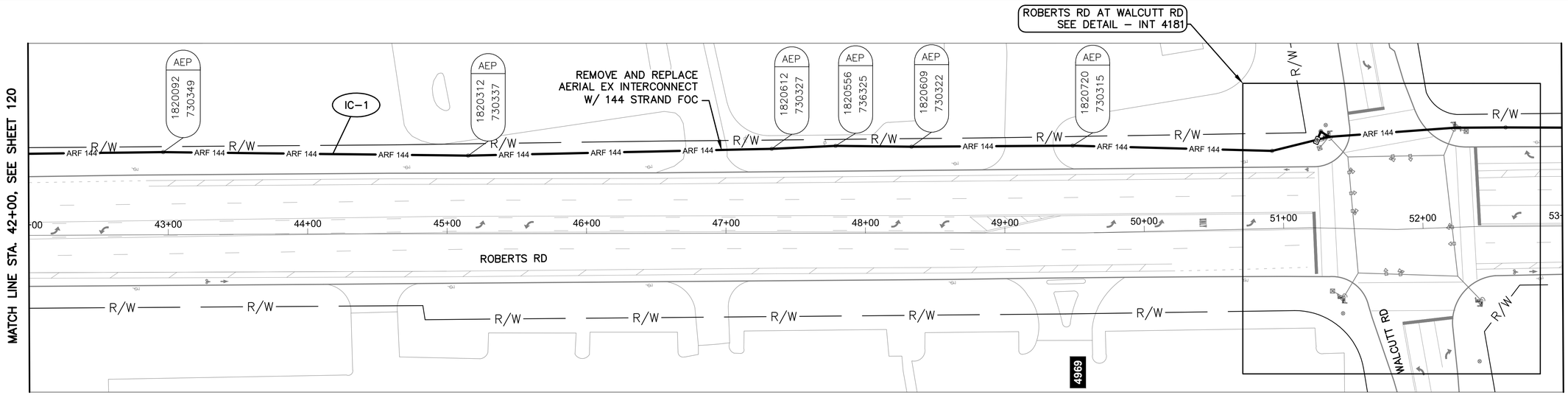
CIP: 540007-100012
PID NUMBER: 99733

INTERCONNECT PLAN
ROBERTS RD BETWEEN STA. 31+00 AND 42+00

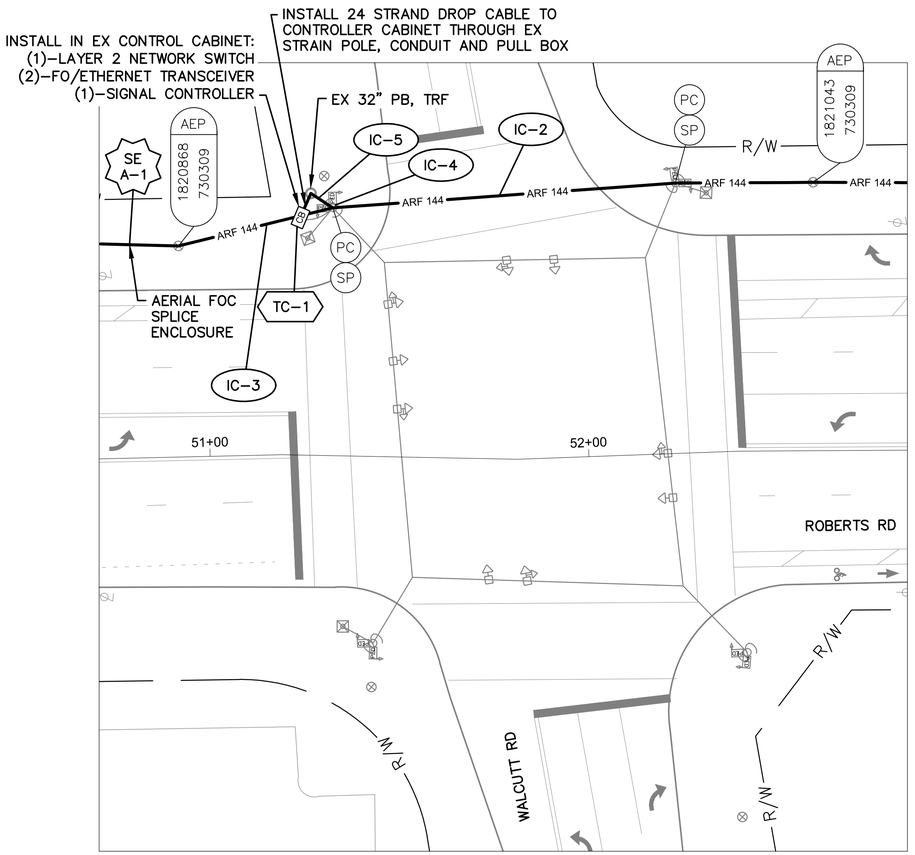
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

120
915

J:\Jobs\63721 ctss phase e\TECHPROD\Sheets\CTSS_PhE_Trunk0_ROBERTS_INTERCONNECT.dwg ~ ROBERTS-4 layout ~ last saved by gburch 06/15/2018 08:02am ~ printed 09/11/2018 05:55pm PSLTS: 1 LTS: 1 CAS: 1:1



ROBERTS RD BETWEEN STATION 42+00 AND 53+00



DETAIL - INT 4181

0 20 40
HORIZONTAL SCALE IN FEET

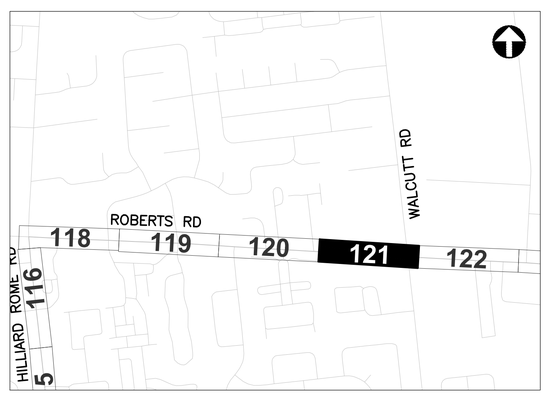
NOTES:

1. SEE SHEET 124 FOR QUANTITIES.
2. SEE SHEETS 612 & 655 FOR COMMUNICATION DETAILS.

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CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 9 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

0 40 80
HORIZONTAL SCALE IN FEET

CIP: 540007–100012
PID NUMBER: 99733

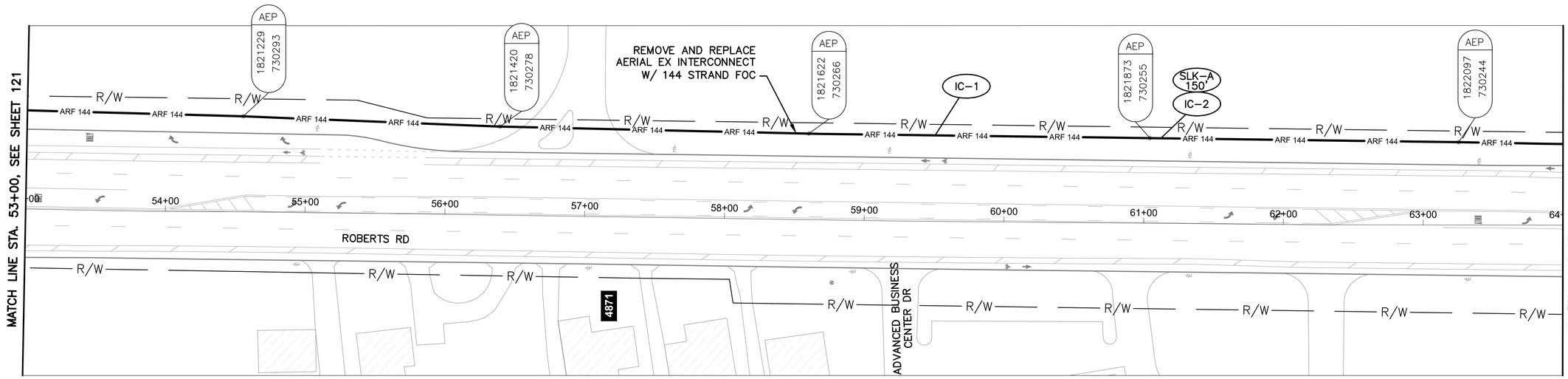
INTERCONNECT PLAN
ROBERTS RD BETWEEN STA. 42+00 AND 53+00, INT 4181

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

3378-E

121
915

J:\Jobs\63721 ctss phase e\TECHPROJ\Sheets\CTSS_PhE_TrunkO_ROBERTS_INTERCONNECT.dwg – ROBERTS-5 layout ~ last saved by: gburch 06/15/2018 08:02am ~ printed 08/11/2018 05:57pm PSLTS: 1 LTS: 1 CAS: 1:1



ROBERTS RD BETWEEN STATION 53+00 AND 64+00

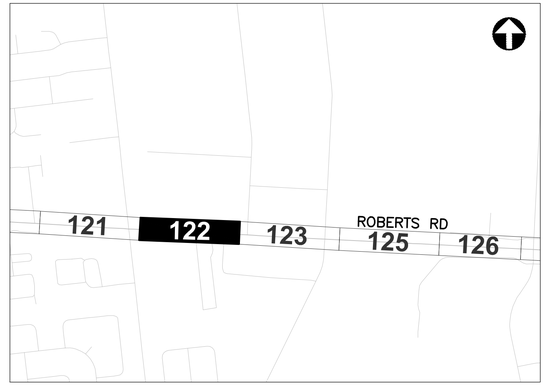
NOTES:

1. SEE SHEET 124 FOR QUANTITIES.
2. SEE SHEET 612 FOR COMMUNICATION DETAILS.

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CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 9 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

3378-E

0 40 80
HORIZONTAL SCALE IN FEET

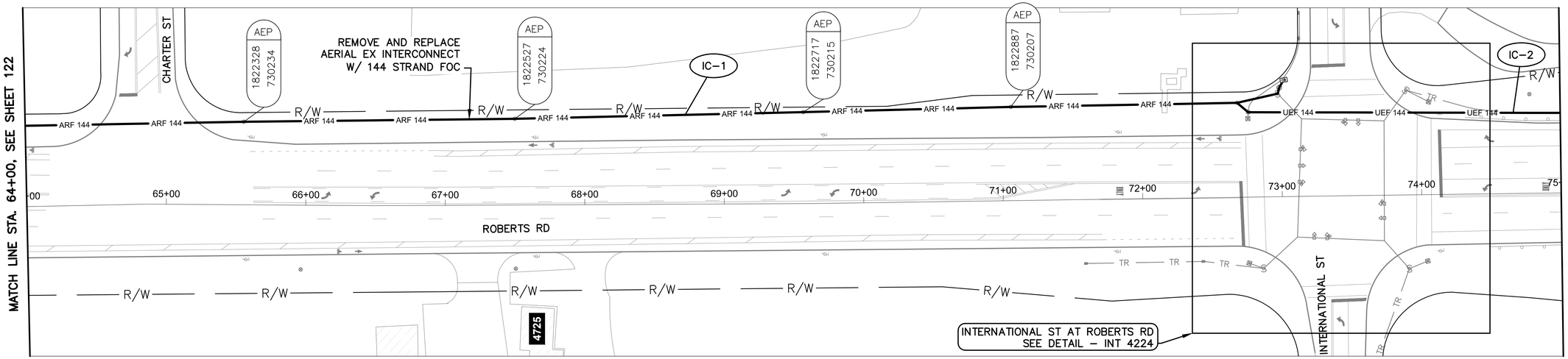
CIP: 540007-100012
PID NUMBER: 99733

INTERCONNECT PLAN
ROBERTS RD BETWEEN STA. 53+00 AND 64+00

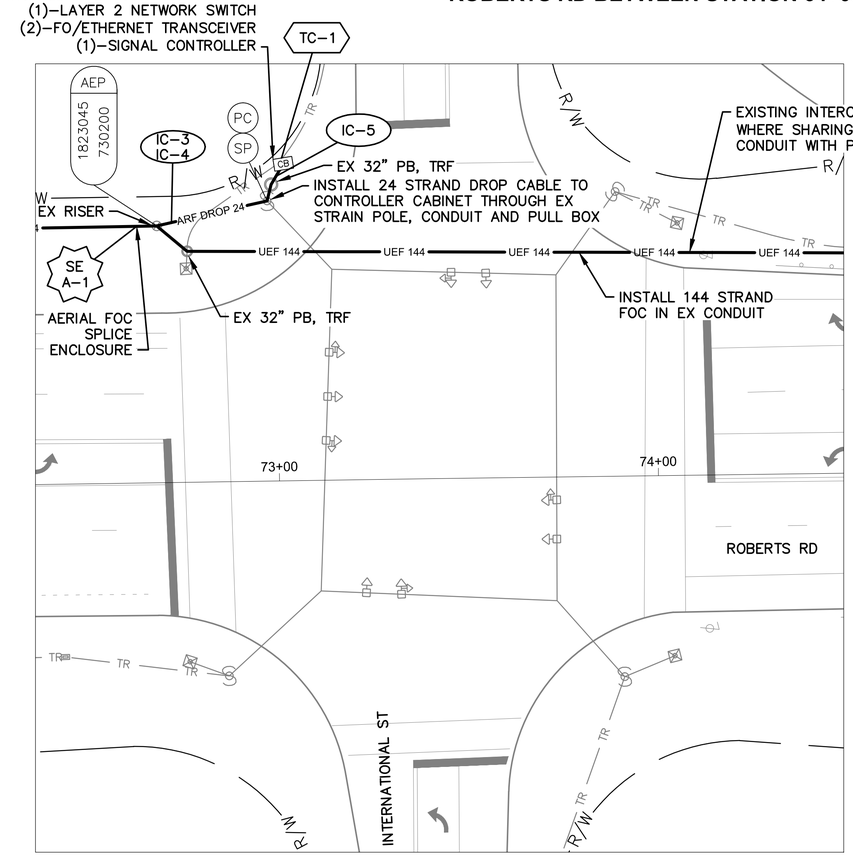
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

122
915

J:\Jobs\63721 ctss phase e\TECHPROD\Sheets\CTSS_PhE_Trunk0_ROBERTS_INTERCONNECT.dwg – ROBERTS-6 layout ~ last saved by gburch 06/15/2018 08:02am ~ printed 08/11/2018 05:59pm PSLTS: 1 LTS: 1 CAS: 1:1



ROBERTS RD BETWEEN STATION 64+00 AND 75+00



DETAIL - INT 4224

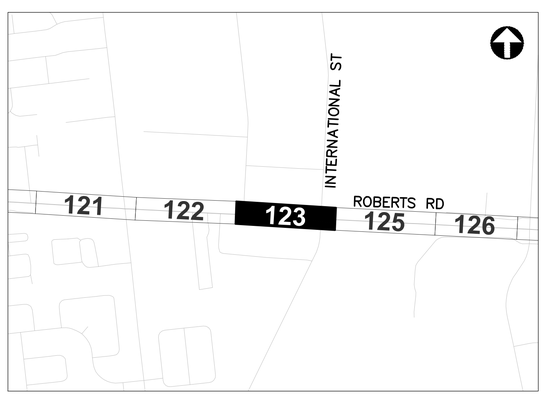
0 20 40
HORIZONTAL SCALE IN FEET

NOTES:

1. SEE SHEET 124 FOR QUANTITIES.
2. SEE SHEETS 612 & 656 FOR COMMUNICATION DETAILS.

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CITY OF COLUMBUS UTILITY LEGEND
- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 9 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

0 40 80
HORIZONTAL SCALE IN FEET

CIP: 540007–100012
PID NUMBER: 99733

INTERCONNECT PLAN
ROBERTS RD BETWEEN STA. 64+00 AND 75+00, INT 4224

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

123
915

3378-E

J:\Jobs\63721 CTSS Phase E\TECHPROD\Sheets\CTSS_PhE_Trunk0_ROBERTS_INTERCONNECT.dwg ~ ROBERTS-7 layout ~ last saved by gburch 09/13/2018 03:27pm ~ printed 09/13/2018 04:51pm PSLTS: 1 LTS: 1 CAS: 1:1

ESTIMATED QUANTITIES

SHEET NO.	REFERENCE NO.	LOCATION	STATION		202	632	632	632	632	632	632	632	632	632	633	633	633								
					EXISTING CONDUIT CLEANED, AS PER PLAN	INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 144 STRAND	INTERCONNECT CABLE, MISC.: FIBER OPTIC DROP CABLE, 24 STRAND	INTERCONNECT CABLE, MISC.: FIBER OPTIC FUSION SPLICE	INTERCONNECT CABLE, MISC.: REMOVE EXISTING OVERHEAD INTERCONNECT	INTERCONNECT CABLE, MISC.: TERMINATION PANEL, 24 FIBER	INTERCONNECT, MISC.: SPLICE ENCLOSURE, CLAMSHELL, 288 SPLICE	MESSENGER WIRE, 7 STRAND, 1/4" DIAMETER WITH ACCESSORIES, AS PER PLAN	SIGNALIZATION, MISC.: CCTV COMPOSITE CABLE	SIGNALIZATION, MISC.: CCTV IP-CAMERA SYSTEM	CONTROLLER ITEM, MISC.: FIBER OPTIC ETHERNET TRANSCEIVER, SHORT RANGE	CONTROLLER ITEM, MISC.: LAYER 2 ETHERNET SWITCH	CONTROLLER UNIT, TYPE TS2/A2, AS PER PLAN							
			FROM	TO	FT	FT	FT	EACH	FT	EACH	EACH	FT	FT	EACH	EACH	EACH	EACH							
ROBERTS RD. BETWEEN STA. 9+00 AND 20+00, INT 4182																								
118	SE U-1	ROBERTS RD	9+42, 62' LT			150	125	24			1													
118	IC-5	ROBERTS RD	9+42, 62' LT	9+43, 92' LT	30		30																	
118	IC-2	ROBERTS RD	9+42, 62' LT	10+61, 70' LT	132	132																		
118	IC-1	ROBERTS RD	9+42, 62' LT	9+63, 135' RT	197	197																		
118	TC-1	ROBERTS RD	9+43, 92' LT				10			1			20		2	1	1							
118	EC-1	ROBERTS RD	9+43, 92' LT	9+45, 74' LT	17								34											
118	CTV-1	ROBERTS RD	9+45, 74' LT										35	1										
118	IC-3	ROBERTS RD	10+61, 70' LT			35																		
118	IC-4	ROBERTS RD	10+61, 70' LT	20+00, 58' LT		955			941			955												
ROBERTS RD. BETWEEN STA. 20+00 AND 31+00																								
119	IC-1	ROBERTS RD	20+00, 58' LT	31+00, 56' LT		1,118			1,101			1,118												
119	IC-2	ROBERTS RD	20+29, 58' LT			150																		
119	IC-3	ROBERTS RD	30+31, 55' LT			150																		
ROBERTS RD. BETWEEN STA. 31+00 AND 42+00																								
120	IC-1	ROBERTS RD	31+00, 56' LT	42+00, 58' LT		1,117			1,100			1,117												
120	IC-2	ROBERTS RD	40+80, 58' LT			150																		
ROBERTS RD. BETWEEN STA. 42+00 AND 53+00, INT 4181																								
121	IC-1	ROBERTS RD	42+00, 58' LT	50+92, 56' LT		905			892			905												
121	SE A-1	ROBERTS RD	50+92, 56' LT			150	125	24			1													
121	IC-3	ROBERTS RD	50+92, 56' LT	51+31, 65' LT		42	42		42			42												
121	IC-2	ROBERTS RD	51+31, 65' LT	53+00, 70' LT		170			170			170												
121	TC-1	ROBERTS RD	51+22, 63' LT				10			1					2	1	1							
121	IC-5	ROBERTS RD	51+22, 63' LT	51+31, 65' LT	14		14																	
121	IC-4	ROBERTS RD	51+31, 65' LT				35																	
ROBERTS RD. BETWEEN STA. 53+00 AND 64+00																								
122	IC-1	ROBERTS RD	53+00, 70' LT	64+00, 58' LT		1,115			1,099			1,115												
122	IC-2	ROBERTS RD	61+11, 61' LT			150																		
ROBERTS RD. BETWEEN STA. 64+00 AND 75+00, INT 4224																								
123	IC-1	ROBERTS RD	64+00, 58' LT	72+68, 68' LT		882			869			882												
123	SE A-1	ROBERTS RD	72+68, 68' LT			150	125	24			1													
123	IC-3	ROBERTS RD	72+68, 68' LT	72+97, 74' LT			30		30			30												
123	IC-2	ROBERTS RD	72+68, 68' LT	75+00, 57' LT	234	269																		
123	IC-4	ROBERTS RD	72+97, 74' LT				35																	
123	IC-5	ROBERTS RD	72+97, 74' LT	73+02, 84' LT	11		11																	
123	TC-1	ROBERTS RD	73+02, 84' LT				10			1					2	1	1							
SHEET TOTAL					635	7,987	602	72	6,244	3	3	6,334	89	1	6	3	3	-	-	-	-	-	-	-

AERIAL SAG: 1.5% AERIAL SAG IS INCLUDED IN THE QUANTITIES FOR ANY AERIAL FIBER OR CABLE ITEMS.

CIP: 540007–100012
PID NUMBER: 99733

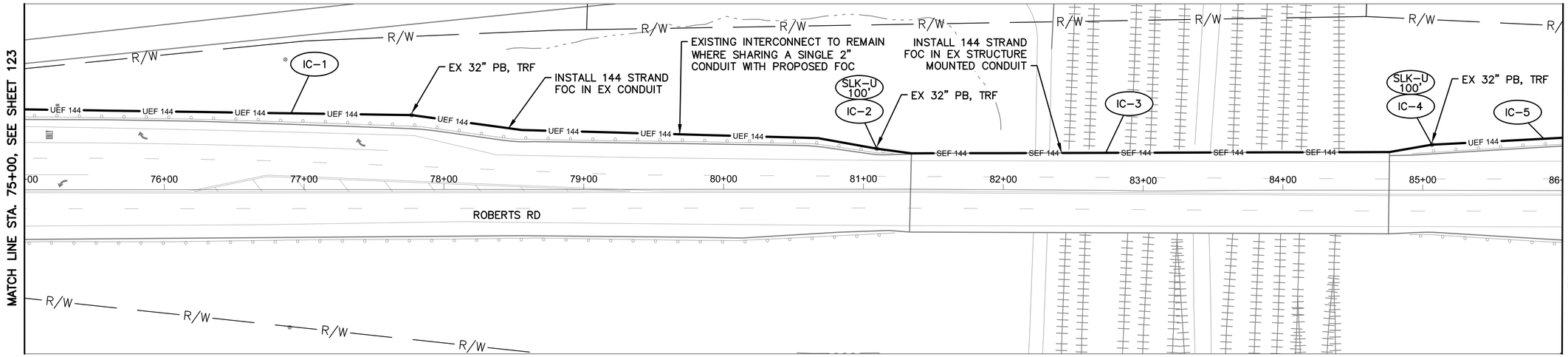
ROBERTS RD BETWEEN STA. 9+00 & 75+00
INTS 4182, 4181, 4224

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

3378-E

124
915

J:\Jobs\63721 CTSS Phase E\TECHPROD\Sheets\CTSS_PhE_Trunk0_ROBERTS_JC_QUANTITIES.dwg ~ ROBERTS RD-Qt layout ~ last saved by: gburch 09/28/2017 10:18am ~ printed 09/18/2018 09:39am PS:TS: 1 LTS: 1 CAS: 1:1



ROBERTS RD BETWEEN STATION 75+00 AND 86+00

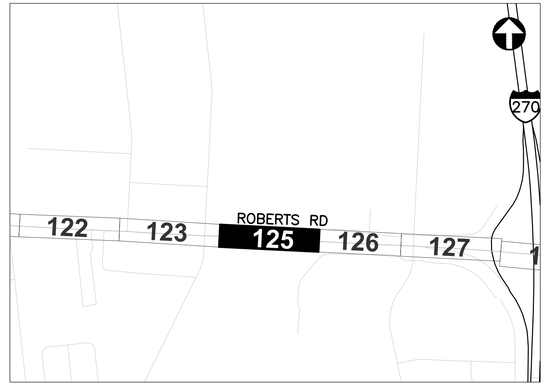
NOTES:

1. SEE SHEET 132 FOR QUANTITIES.
2. SEE SHEET 612 FOR COMMUNICATION DETAILS.

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CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 9 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

3378-E

HORIZONTAL SCALE IN FEET
0 40 80

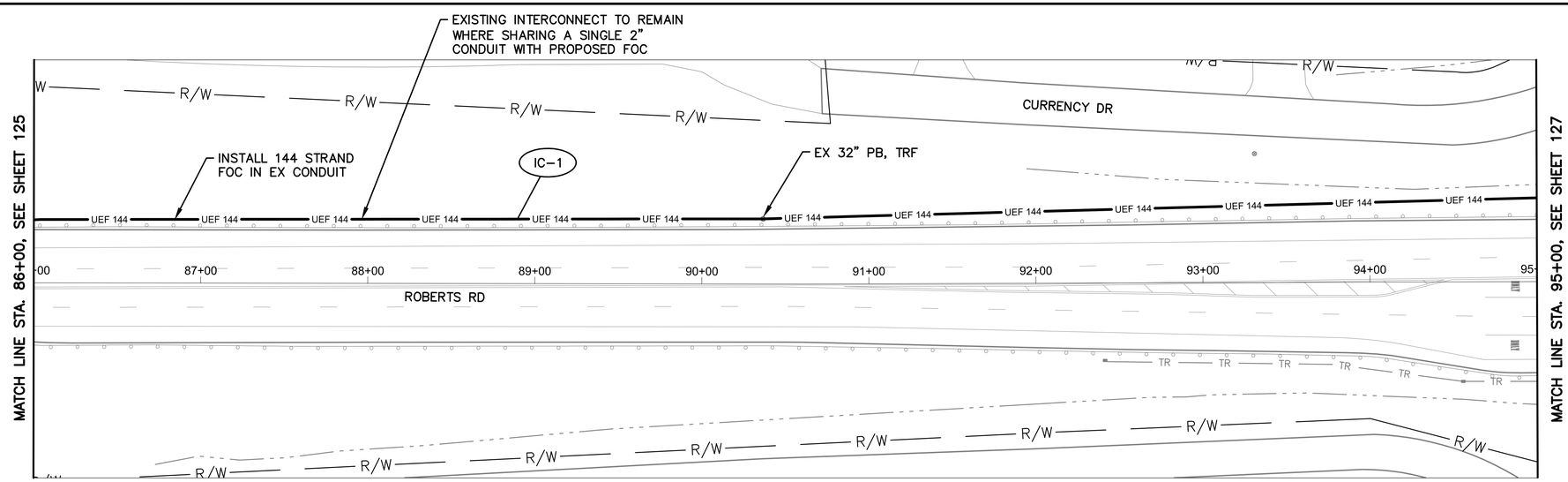
CIP: 540007-100012
PID NUMBER: 99733

INTERCONNECT PLAN
ROBERTS RD BETWEEN STA. 75+00 AND 86+00

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

125
915

J:\Jobs\63721 ctss phase e\TECHPROD\Sheets\CTSS_PhE_Trunk0_ROBERTS_INTERCONNECT.dwg – ROBERTS-8 layout ~ last saved by: gburch 06/15/2018 08:02am ~ printed 09/11/2018 06:02pm PSLTS: 1 LTS: 1 CAS: 1:1



ROBERTS RD BETWEEN STATION 86+00 AND 95+00

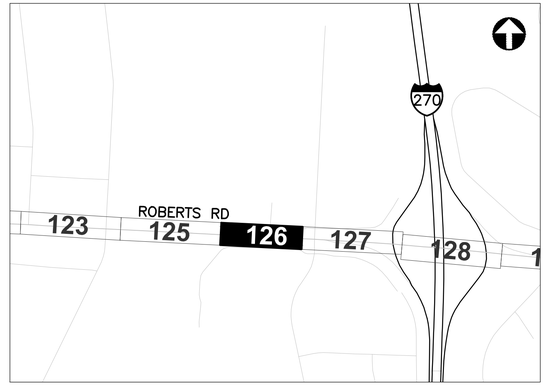
NOTES:

1. SEE SHEET 132 FOR QUANTITIES.
2. SEE SHEET 612 FOR COMMUNICATION DETAILS.

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CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 9 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

3378-E

HORIZONTAL SCALE IN FEET
0 40 80

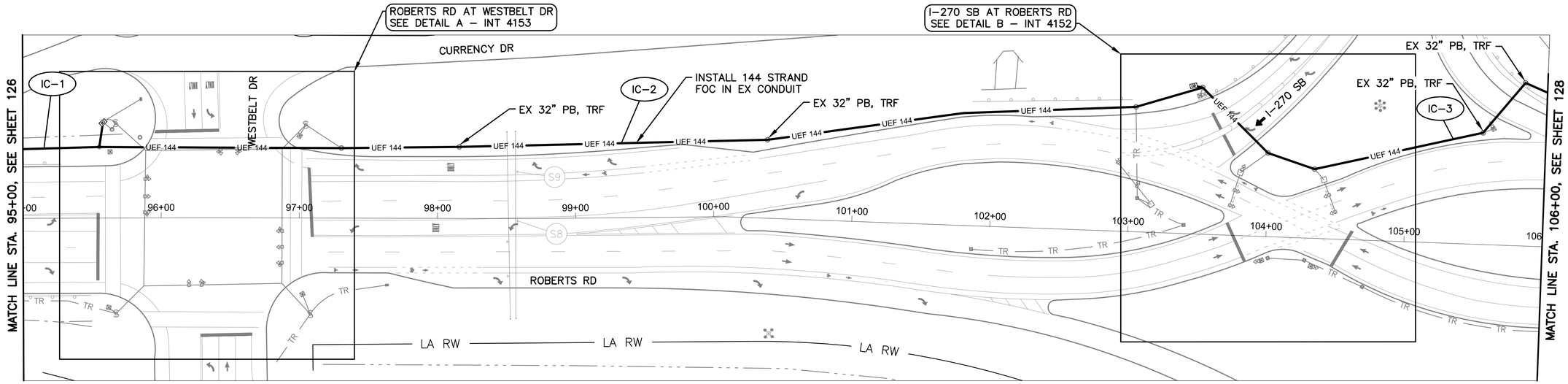
CIP: 540007-100012
PID NUMBER: 99733

INTERCONNECT PLAN
ROBERTS RD BETWEEN STA. 86+00 AND 95+00

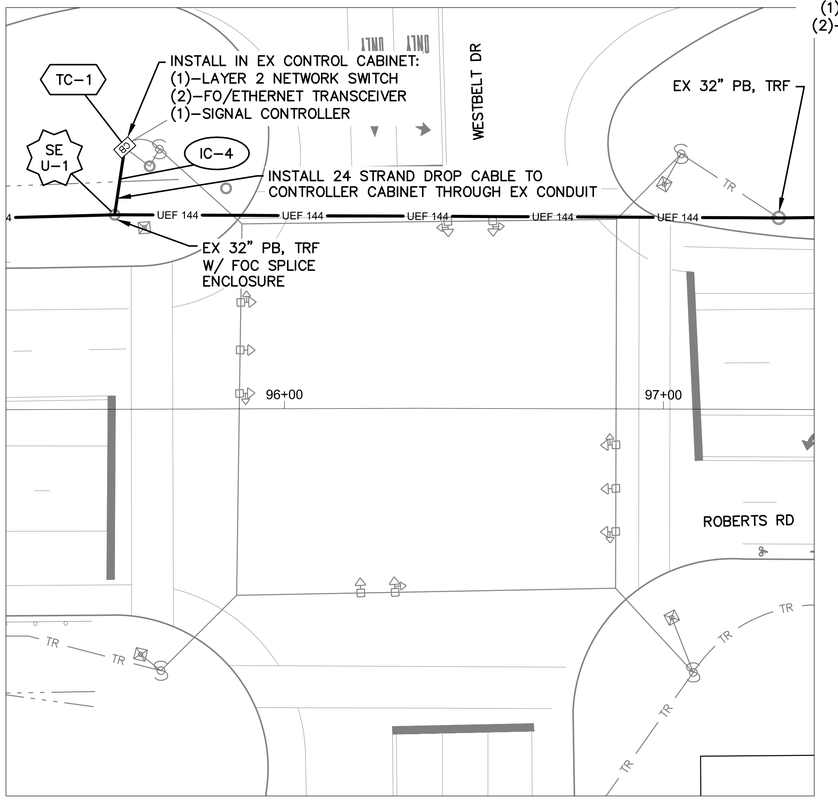
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

126
915

J:\Jobs\63721 ctss phase e\TECHPROD\Sheets\CTSS_PhE_Trunk0_ROBERTS_INTERCONNECT.dwg – ROBERTS-9 layout ~ last saved by: gburch 06/15/2018 08:02am ~ printed 09/11/2018 06:04pm PSLTS: 1 LTS: 1 CAS: 1:1

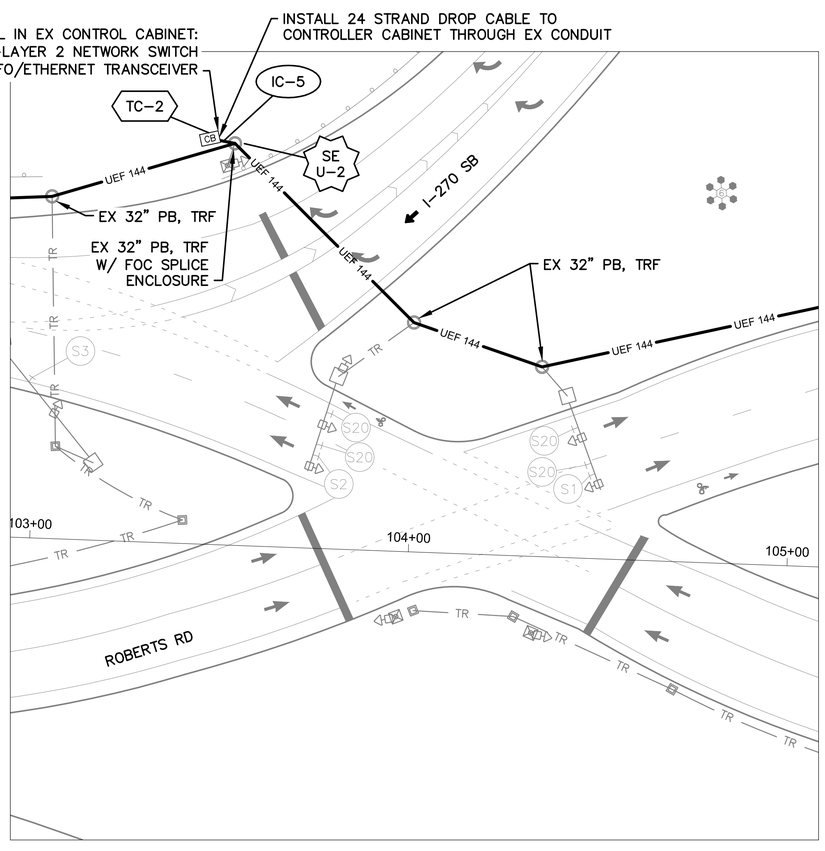


ROBERTS RD BETWEEN STATION 95+00 AND 106+00



DETAIL A - INT 4153

0 20 40
HORIZONTAL SCALE IN FEET



DETAIL B - INT 4152

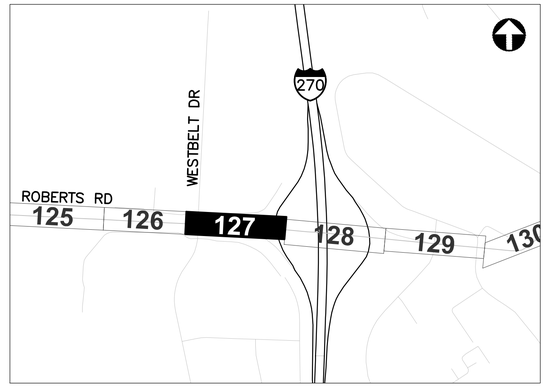
0 20 40
HORIZONTAL SCALE IN FEET

NOTES:

1. SEE SHEET 132 FOR QUANTITIES.
2. SEE SHEETS 612, 614, 657, & 658 FOR COMMUNICATION DETAILS.
3. LIMITED ACCESS RIGHT OF WAY IS LOCATED OUTSIDE OF THE EXTENT OF VIEW SHOWN ABOVE.

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CITY OF COLUMBUS UTILITY LEGEND
- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 9 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

3378-E

0 40 80
HORIZONTAL SCALE IN FEET

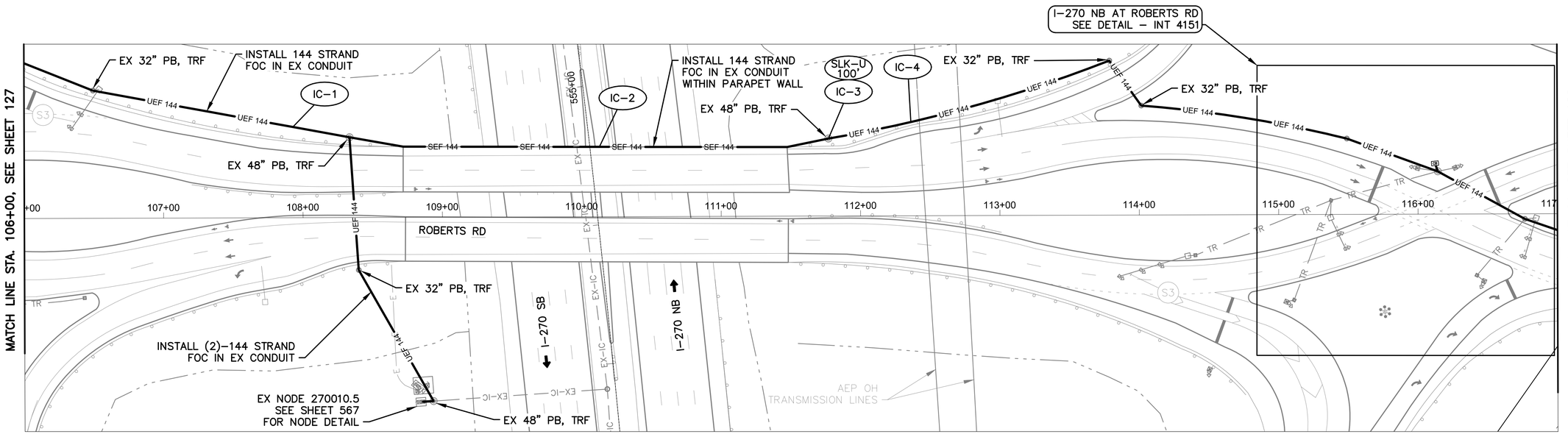
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PID NUMBER: 99733

INTERCONNECT PLAN
ROBERTS RD BETWEEN STA. 95+00 AND 106+00, INTS 4153 AND 4152

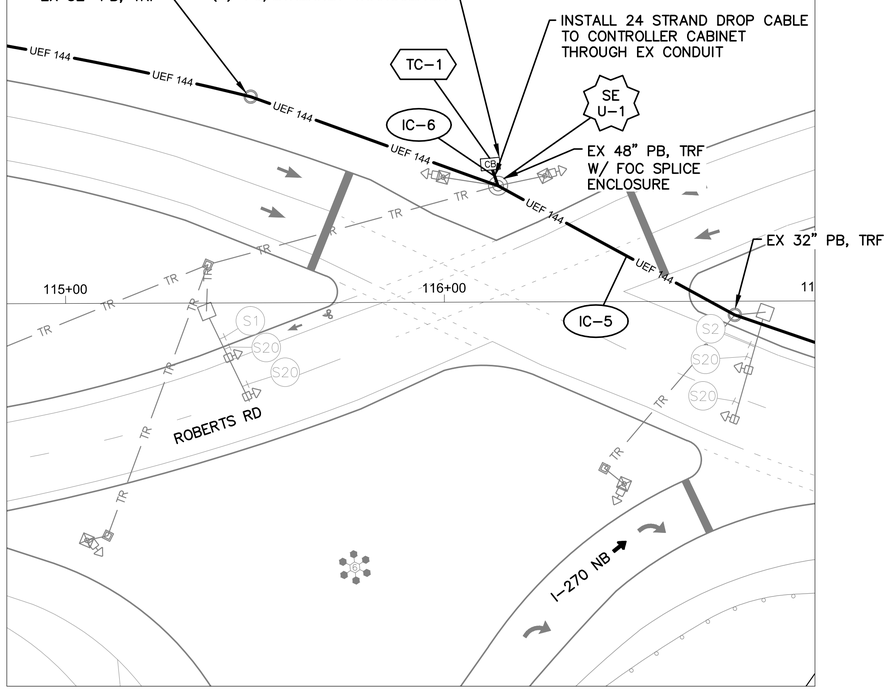
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

127
915

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ROBERTS RD BETWEEN STATION 106+00 AND 117+00



DETAIL - INT 4151

HORIZONTAL
SCALE IN FEET

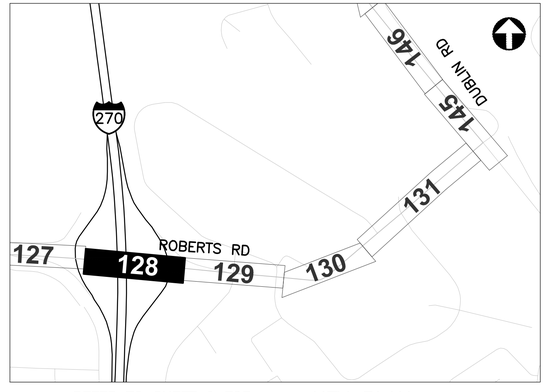
NOTES:

1. SEE SHEET 132 FOR QUANTITIES.
2. SEE SHEETS 614 & 659 FOR COMMUNICATION DETAILS.
3. SEE SHEET 567 FOR NODE DETAILS.
4. LIMITED ACCESS RIGHT OF WAY SHOWN OUTSIDE OF THE EXTENT OF VIEW SHOWN ABOVE.

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CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 9 FOR
INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

HORIZONTAL
SCALE IN FEET

CIP: 540007-100012
PID NUMBER: 99733

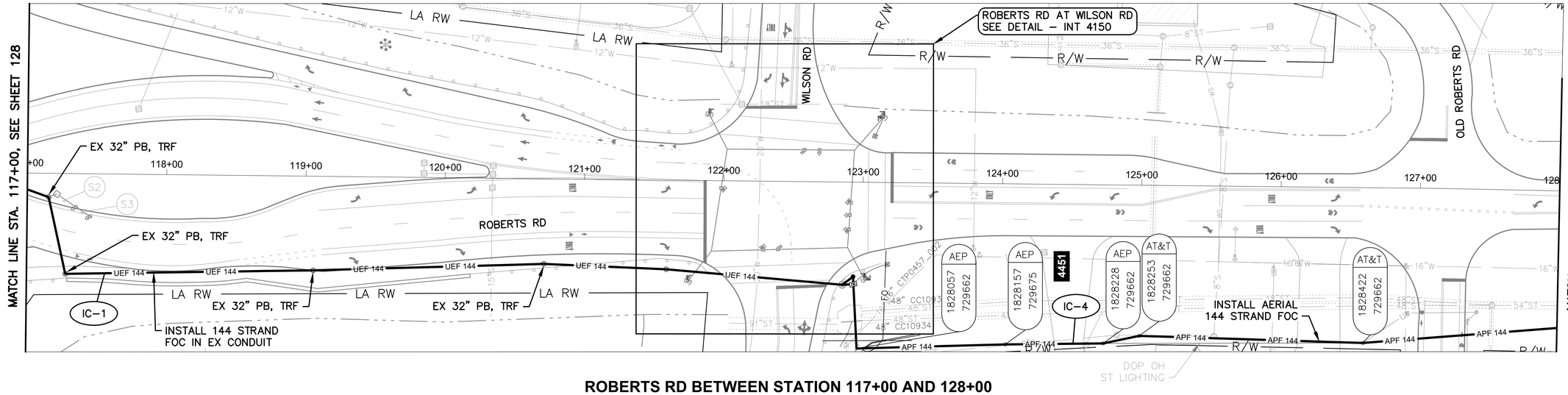
INTERCONNECT PLAN
ROBERTS RD BETWEEN STA. 106+00 AND 117+00, INT 4151

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E - FINAL SUBMITTAL

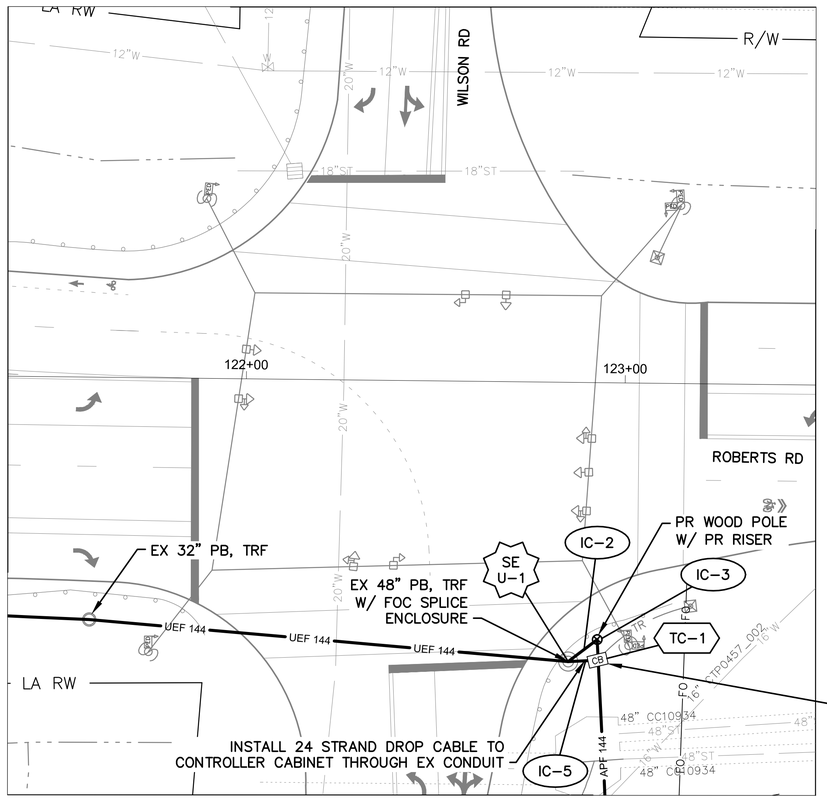
128
915

3378-E

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ROBERTS RD BETWEEN STATION 117+00 AND 128+00



DETAIL - INT 4150

0 20 40
HORIZONTAL
SCALE IN FEET

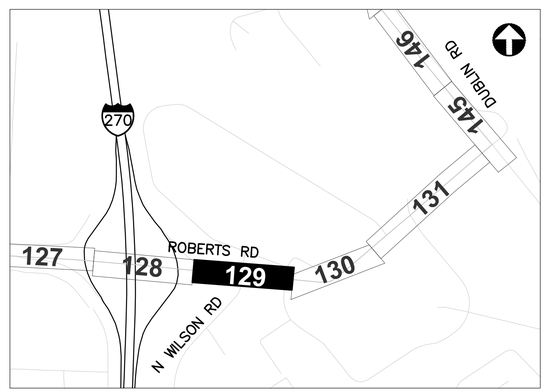
NOTES:

1. SEE SHEET 132 FOR QUANTITIES.
2. SEE SHEETS 614 & 660 FOR COMMUNICATION DETAILS.
3. LIMITED ACCESS RIGHT OF WAY IS LOCATED OUTSIDE OF THE EXTENT OF VIEW SHOWN ABOVE.

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CITY OF COLUMBUS UTILITY LEGEND

☒	SEWER
☒	WATER
☐	POWER
☒	LIGHTING



REFER TO SHEET 9 FOR
INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

0 40 80
HORIZONTAL
SCALE IN FEET

CIP: 540007–100012
PID NUMBER: 99733

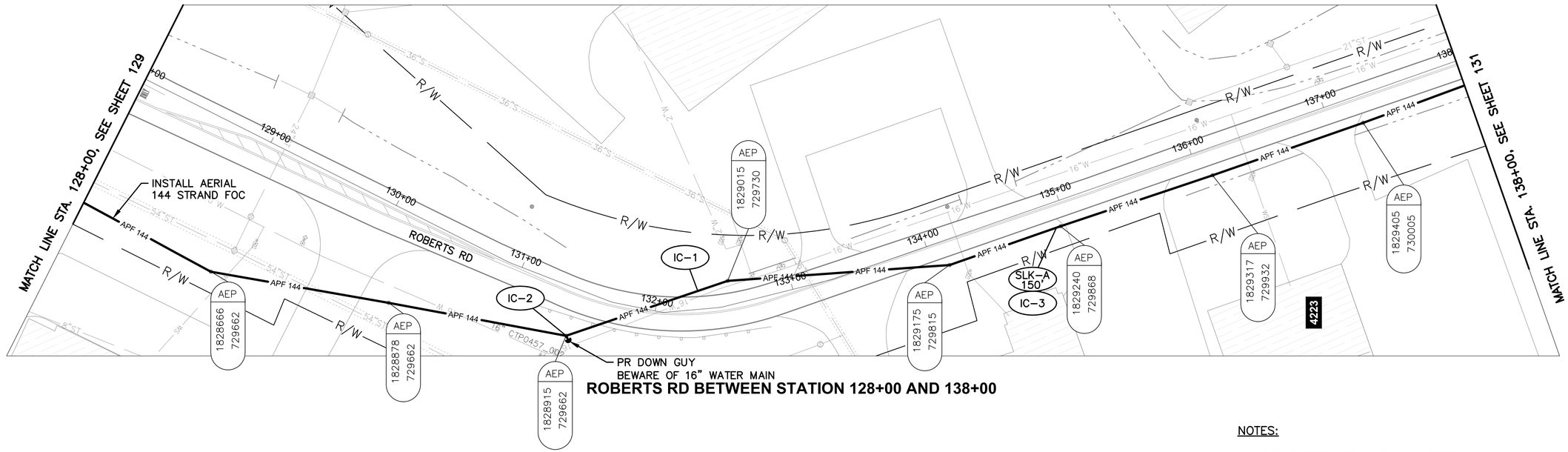
INTERCONNECT PLAN
ROBERTS RD BETWEEN STA. 117+00 AND 128+00, INT 4150

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

129
915

3378-E

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ROBERTS RD BETWEEN STATION 128+00 AND 138+00

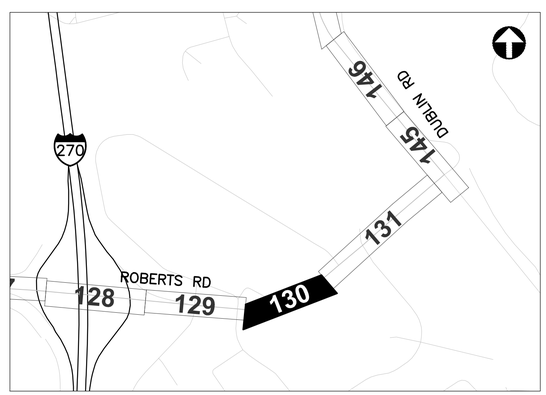
NOTES:

1. SEE SHEET 132 FOR QUANTITIES.
2. SEE SHEET 614 FOR COMMUNICATION DETAILS.

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CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☒ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 9 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

3378-E

HORIZONTAL SCALE IN FEET
0 40 80

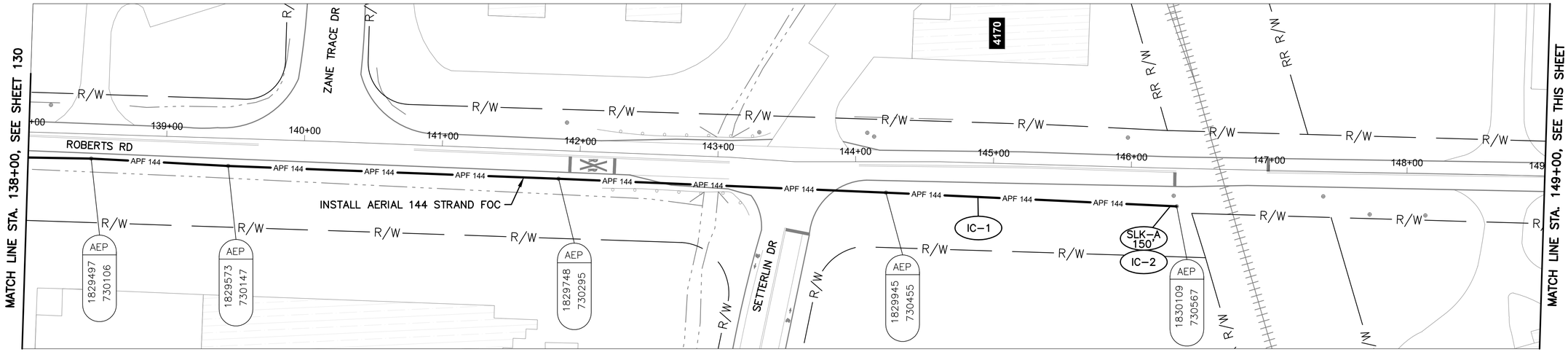
CIP: 540007-100012
PID NUMBER: 99733

INTERCONNECT PLAN
ROBERTS RD BETWEEN STA. 128+00 AND 138+00

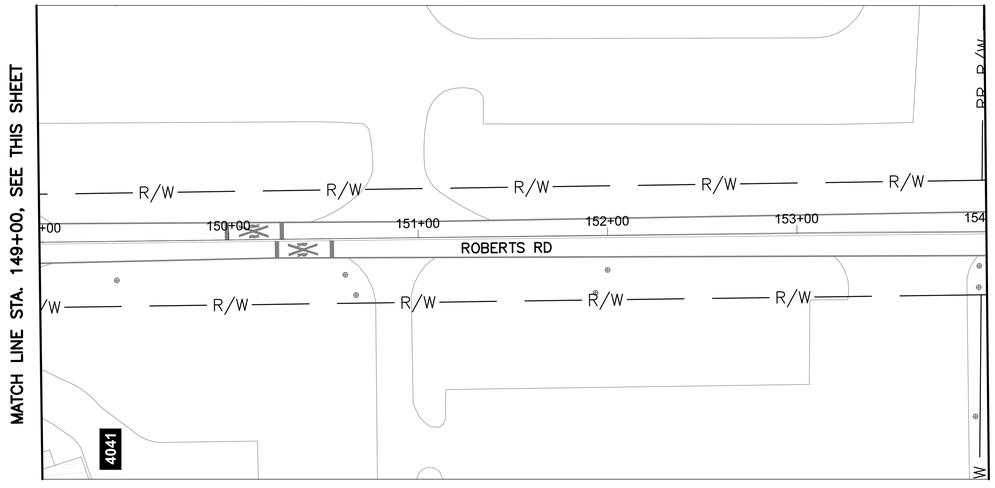
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

130
915

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ROBERTS RD BETWEEN STATION 138+00 AND 149+00



ROBERTS RD BETWEEN STATION 149+00 AND 154+00

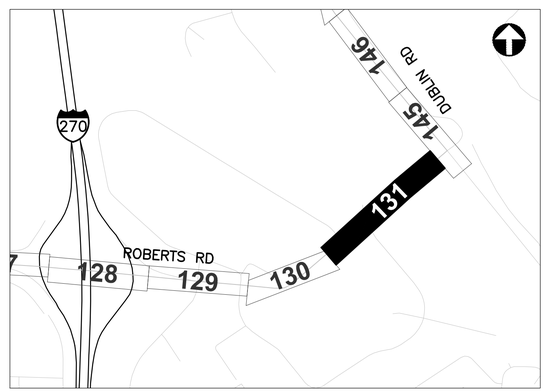
NOTES:

1. SEE SHEET 132 FOR QUANTITIES.
2. SEE SHEET 614 FOR COMMUNICATION DETAILS.

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CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 9 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

HORIZONTAL SCALE IN FEET
0 40 80

CIP: 540007-100012
PID NUMBER: 99733

INTERCONNECT PLAN
ROBERTS RD BETWEEN STA. 138+00 AND 154+00

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

3378-E

131
915

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ESTIMATED QUANTITIES

SHEET NO.	REFERENCE NO.	LOCATION	STATION		202	625	625	632	632	632	632	632	632	632	632	633	633	633					
					EXISTING CONDUIT CLEANED, AS PER PLAN	CONDUIT, CONCRETE ENCASED, 2-3", 725.05, AS PER PLAN	TRENCH, 36" DEEP, AS PER PLAN	CONDUIT RISER, 2", 725.04, AS PER PLAN	DOWN GUY	INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 144 STRAND	INTERCONNECT CABLE, MISC.: FIBER OPTIC DROP CABLE, 24 STRAND	INTERCONNECT CABLE, MISC.: FIBER OPTIC FUSION SPLICE	INTERCONNECT CABLE, MISC.: TERMINATION PANEL, 24 FIBER	INTERCONNECT, MISC.: SPLICE ENCLOSURE, CLAMSHELL, 288 SPLICE	MESSENGER WIRE, 7 STRAND, 1/4" DIAMETER WITH ACCESSORIES, AS PER PLAN	WOOD POLE, CLASS 5, 35 FT	CONTROLLER ITEM, MISC.: FIBER OPTIC ETHERNET TRANSCEIVER, SHORT RANGE	CONTROLLER ITEM, MISC.: LAYER 2 ETHERNET SWITCH	CONTROLLER UNIT, TYPE TS2/A2, AS PER PLAN					
			FROM	TO	FT	FT	FT	EACH	EACH	FT	FT	EACH	EACH	EACH	FT	EACH	EACH	EACH	EACH					
ROBERTS RD. BETWEEN STA. 75+00 AND 86+00																							
125	IC-1	ROBERTS RD	75+00, 57' LT	81+09, 29' LT	611					611													
125	IC-2	ROBERTS RD	81+09, 29' LT							100													
125	IC-3	ROBERTS RD	81+09, 29' LT	85+06, 32' LT	398					398													
125	IC-4	ROBERTS RD	85+06, 32' LT							100													
125	IC-5	ROBERTS RD	85+06, 32' LT	86+00, 38' LT	95					95													
ROBERTS RD. BETWEEN STA. 86+00 AND 95+00																							
126	IC-1	ROBERTS RD	86+00, 38' LT	95+00, 50' LT	900					900													
ROBERTS RD. BETWEEN STA. 95+00 AND 106+00, INTS 4153 & 4152																							
127	IC-1	ROBERTS RD	95+00, 50' LT	95+55, 51' LT	55					55													
127	SE U-1	ROBERTS RD	95+55, 51' LT							150	125	24		1									
127	IC-4	ROBERTS RD	95+55, 51' LT	95+58, 69' LT	18						18												
127	IC-2	ROBERTS RD	95+55, 51' LT	103+50, 106' LT	795					795													
127	TC-1	ROBERTS RD	95+58, 69' LT								10		1				2	1	1				
127	TC-2	ROBERTS RD	103+43, 107' LT								10		1				2	1					
127	IC-5	ROBERTS RD	103+43, 107' LT	103+50, 106' LT	7						7												
127	SE U-2	ROBERTS RD	103+50, 106' LT							150	75	24		1									
127	IC-3	ROBERTS RD	103+50, 106' LT	106+00, 111' LT	291					291													
ROBERTS RD. BETWEEN STA. 106+00 AND 117+00, INT 4151																							
128	IC-1	ROBERTS RD	106+00, 111' LT	108+38, 57' LT	245					245													
128	IC-2	ROBERTS RD	108+38, 57' LT	111+77, 56' LT	340					340													
128	IC-3	ROBERTS RD	111+77, 56' LT							100													
128	IC-4	ROBERTS RD	111+77, 56' LT	116+14, 31' LT	468					468													
128	TC-1	ROBERTS RD	116+12, 36' LT								10		1				2	1					
128	IC-6	ROBERTS RD	116+12, 36' LT	116+14, 31' LT	6						6												
128	SE U-1	ROBERTS RD	116+14, 31' LT							150	125	24		1									
128	IC-5	ROBERTS RD	116+14, 31' LT	117+00, 12' RT	96					96													
ROBERTS RD. BETWEEN STA. 117+00 AND 128+00, INT 4150																							
129	IC-1	ROBERTS RD	117+00, 12' RT	122+85, 74' RT	631					631													
129	SE U-1	ROBERTS RD	122+85, 74' RT							150	125	24		1									
129	IC-2	ROBERTS RD	122+85, 74' RT	122+93, 68' RT		10	10			10													
129	IC-5	ROBERTS RD	122+85, 74' RT	122+93, 73' RT	8						8												
129	IC-3	ROBERTS RD	122+93, 68' RT					1		35						1							
129	IC-4	ROBERTS RD	122+93, 68' RT	128+00, 98' RT						563					563								
129	TC-1	ROBERTS RD	122+93, 73' RT								10		1				2	1					
ROBERTS RD. BETWEEN STA. 128+00 AND 138+00																							
130	IC-1	ROBERTS RD	128+00, 98' RT	138+00, 18' RT						1,044					1,044								
130	IC-2	ROBERTS RD	131+47, 34' RT						1														
130	IC-3	ROBERTS RD	134+92, 18' RT							150													
ROBERTS RD. BETWEEN STA. 138+00 AND 154+00																							
131	IC-1	ROBERTS RD	138+00, 18' RT	146+34, 28' RT						847					847								
131	IC-2	ROBERTS RD	146+29, 27' RT							150													
SHEET TOTAL					4,964	10	10	1	1	8,624	529	96	4	4	2,454	1	8	4	1	-	-	-	-	-

AERIAL SAG: 1.5% AERIAL SAG IS INCLUDED IN THE QUANTITIES FOR ANY AERIAL FIBER OR CABLE ITEMS.

3378-E

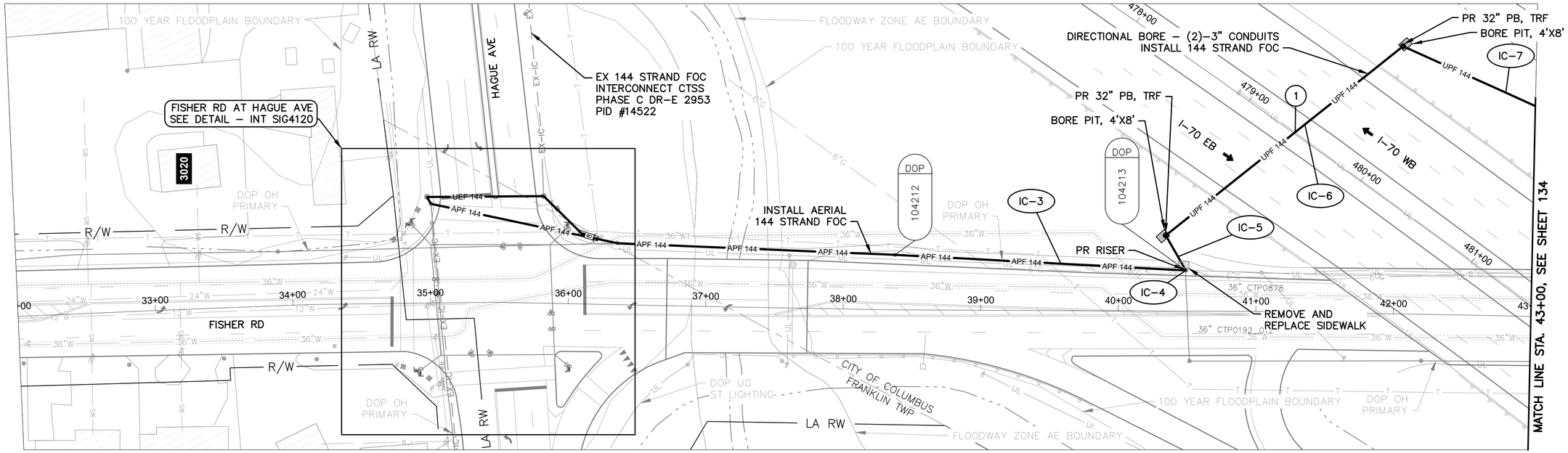
CIP: 540007-100012
PID NUMBER: 99733

ROBERTS RD BETWEEN STA. 75+00 & 154+00
INTS 4153, 4152, 4151, 4150

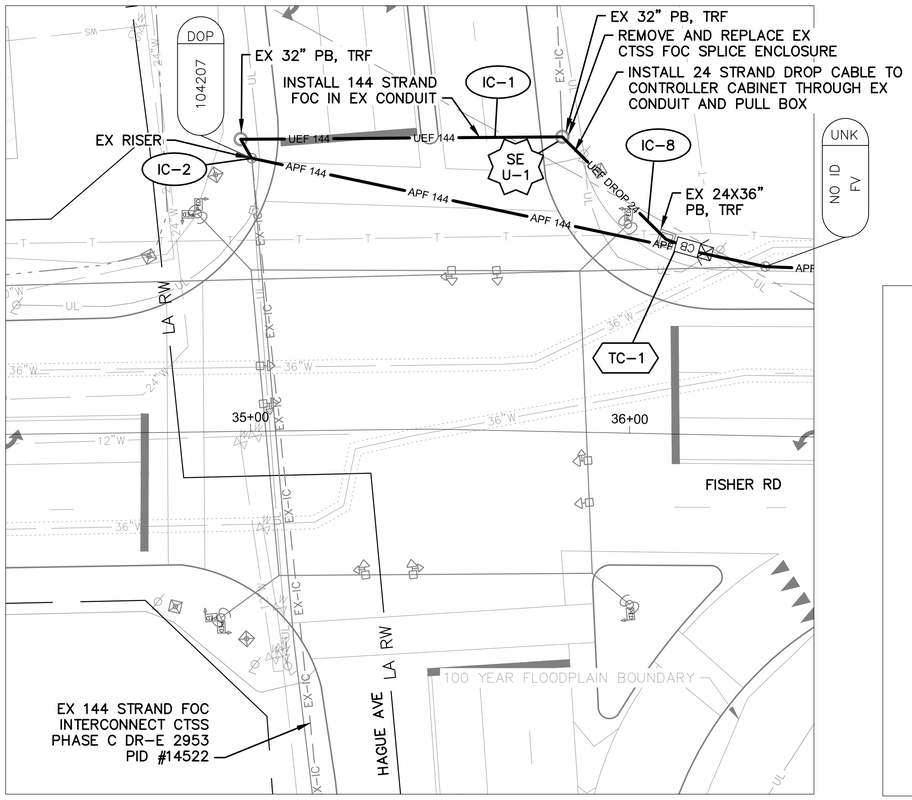
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

132
915

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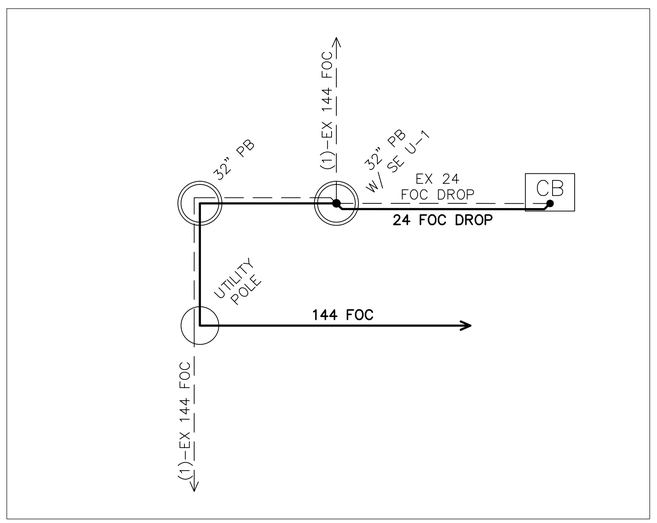


FISHER RD BETWEEN STATION 32+00 AND 43+00



DETAIL - INT SIG4120

0 20 40
HORIZONTAL
SCALE IN FEET



CABLE SCHEMATIC - INT SIG4120
NOT TO SCALE

NOTES:

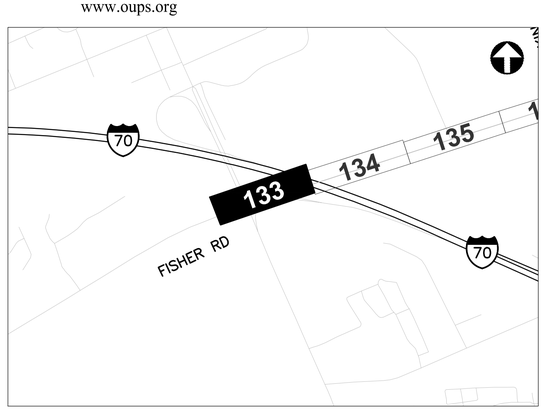
1. SEE SHEET 137 FOR QUANTITIES.
2. SEE SHEET 614 & 665 FOR COMMUNICATION DETAILS.
3. LIMITED ACCESS RIGHT OF WAY IS LOCATED OUTSIDE OF THE EXTENT OF VIEW SHOWN ABOVE.

(#) EXISTING UTILITY CROSSING.
SEE UTILITY CROSSING INFO
SHEET 17.

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CITY OF COLUMBUS UTILITY LEGEND

☐	SEWER
☒	WATER
☒	POWER
☒	LIGHTING



REFER TO SHEET 9 FOR
INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

0 40 80
HORIZONTAL
SCALE IN FEET

CIP: 540007-100012
PID NUMBER: 99733

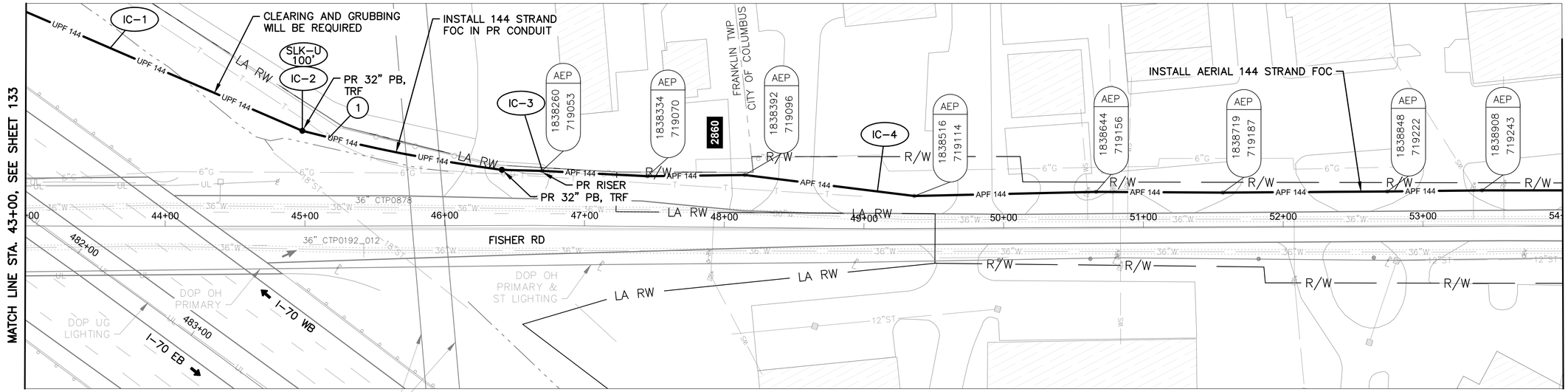
INTERCONNECT PLAN
FISHER RD BETWEEN STA. 32+00 AND 43+00, INT SIG4120

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E - FINAL SUBMITTAL

133
915

3378-E

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FISHER RD BETWEEN STATION 43+00 AND 54+00

NOTES:

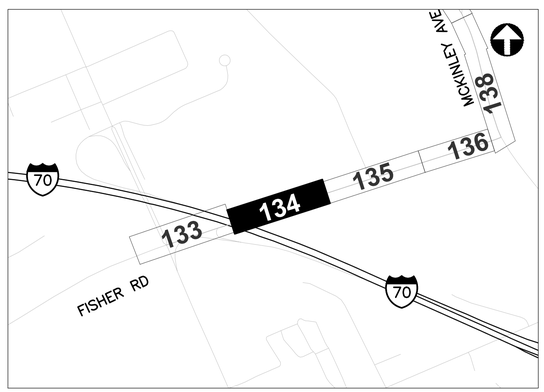
1. SEE SHEET 137 FOR QUANTITIES.
2. SEE SHEET 614 FOR COMMUNICATION DETAILS.

(#) EXISTING UTILITY CROSSING. SEE UTILITY CROSSING INFO SHEET 17.

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CITY OF COLUMBUS UTILITY LEGEND

- SEWER
- WATER
- POWER
- LIGHTING



REFER TO SHEET 9 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

HORIZONTAL SCALE IN FEET
0 40 80

CIP: 540007-100012
PID NUMBER: 99733

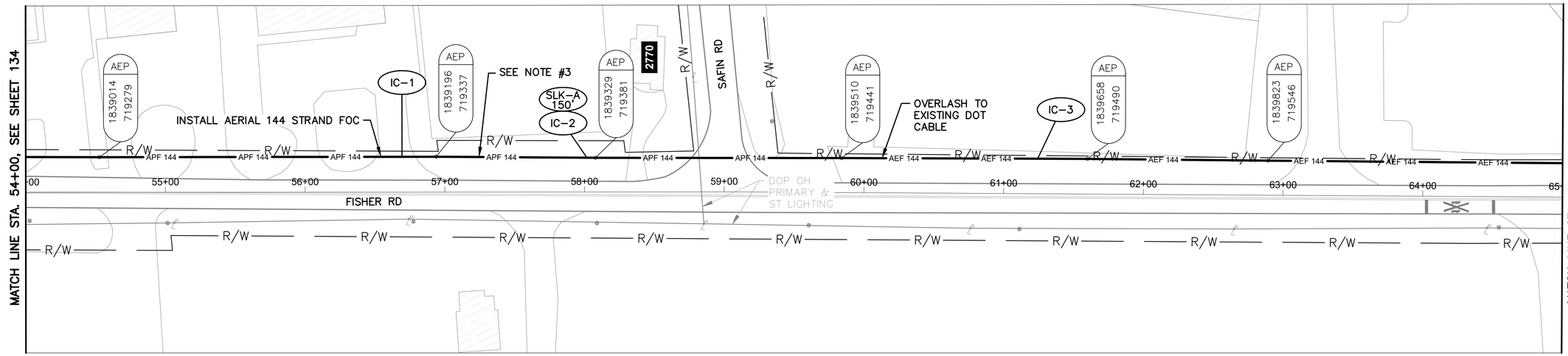
INTERCONNECT PLAN
FISHER RD BETWEEN STA. 43+00 AND 54+00

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

134
915

3378-E

J:\Jobs\63721 ctss phase e\TECHPROD\Sheets\CTSS_PhE_TrunkO_FISHER_INTERCONNECT.dwg – FISHER-4 layout ~ last saved by rwegehoupt 08/23/2018 10:43am ~ printed 09/11/2018 06:21pm PSLTS: 1 LTS: 1 CAS: 1:1



FISHER RD BETWEEN STATION 54+00 AND 65+00

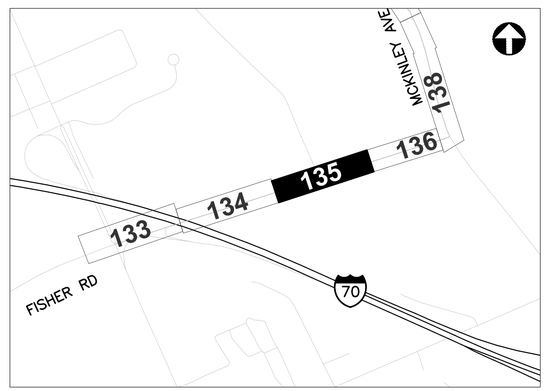
NOTES:

1. SEE SHEET 137 FOR QUANTITIES.
2. SEE SHEET 614 FOR COMMUNICATION DETAILS.
3. INSTALL CABLE GUARD WHERE AERIAL OBSTRUCTIONS ARE PRESENT.

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CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☒ POWER
- ☒ LIGHTING



REFER TO SHEET 9 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

3378-E

HORIZONTAL SCALE IN FEET
0 40 80

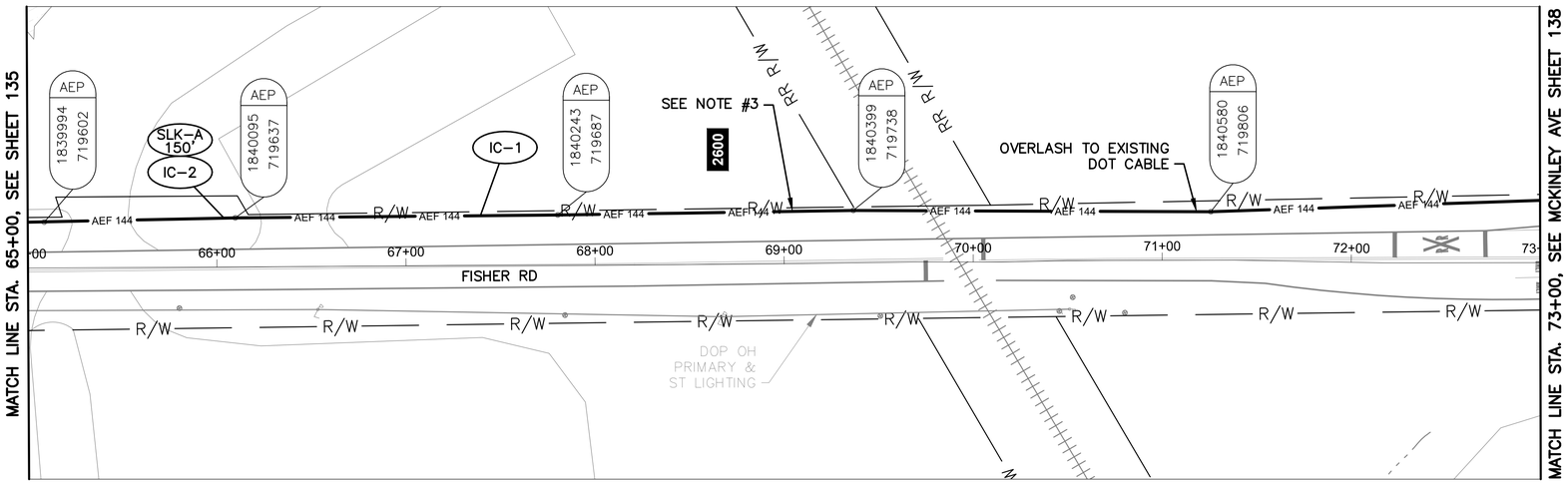
CIP: 540007-100012
PID NUMBER: 99733

INTERCONNECT PLAN
FISHER RD BETWEEN STA. 54+00 AND 65+00

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

135
915

J:\Jobs\63721 ctss phase e\TECHPROD\Sheets\CTSS_PhE_Trunk0_FISHER_INTERCONNECT.dwg – FISHER-5 layout – last saved by: rwegehaupt 08/23/2018 10:43am ~ printed 09/11/2018 06:23pm PSLTS: 1 LTS: 1 CAS: 1:1



FISHER RD BETWEEN STATION 65+00 AND 73+00

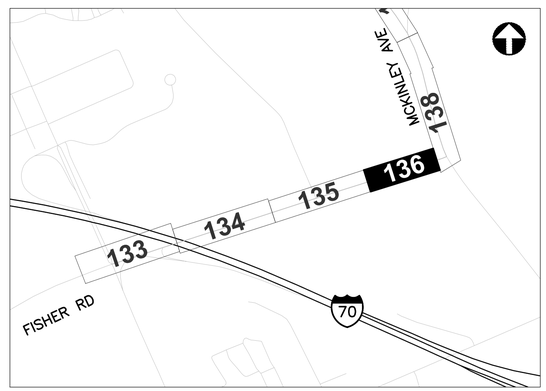
NOTES:

1. SEE SHEET 137 FOR QUANTITIES.
2. SEE SHEET 614 FOR COMMUNICATION DETAILS.
3. INSTALL CABLE GUARD WHERE AERIAL OBSTRUCTIONS ARE PRESENT.

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CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☒ POWER
- ☒ LIGHTING



REFER TO SHEET 9 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

HORIZONTAL SCALE IN FEET
0 40 80

CIP: 540007-100012
PID NUMBER: 99733

INTERCONNECT PLAN
FISHER RD BETWEEN STA. 65+00 AND 73+00

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

3378-E

136
915

J:\Jobs\63721 ctss phase e\TECHPROD\Sheets\CTSS_PhE_Trunk0_FISHER_INTERCONNECT1.dwg – FISHER-6 layout ~ last saved by: rwegehaupt 08/23/2018 10:43am ~ printed 09/11/2018 06:24pm PSLTS: 1 LTS: 1 CAS: 1:1

ESTIMATED QUANTITIES

SHEET NO.	REFERENCE NO.	LOCATION	STATION		202	202	608	625	625	625	625	632	632	632	632	632	632	632	632					
					EXISTING CONDUIT CLEANED, AS PER PLAN	WALK REMOVED	8" CONCRETE WALK	CONDUIT, CONCRETE ENCASED, 2-3", 725.05, AS PER PLAN	CONDUIT, JACKED OR DRILLED, 3", AS PER PLAN	PULL BOX, CONCRETE 32", AS PER PLAN	TRENCH, 36" DEEP, AS PER PLAN	CONDUIT RISER, 2", 725.04, AS PER PLAN	INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 144 STRAND	INTERCONNECT CABLE, MISC.: FIBER OPTIC DROP CABLE, 24 STRAND	INTERCONNECT CABLE, MISC.: FIBER OPTIC FUSION SPLICE	INTERCONNECT CABLE, MISC.: OVERLASH TO EXISTING INTERCONNECT	INTERCONNECT CABLE, MISC.: TERMINATION PANEL, 24 FIBER	INTERCONNECT, MISC.: SPLICE ENCLOSURE, CLAMSHELL, 288 SPLICE	MESSENGER WIRE, 7 STRAND, 1/4" DIAMETER WITH ACCESSORIES, AS PER PLAN					
			FROM	TO	FT	SF	SF	FT	FT	EACH	FT	EACH	FT	FT	EACH	FT	EACH	EACH	FT					
FISHER RD. BETWEEN STA. 32+00 AND 43+00, INT SIG4120																								
133	IC-2	FISHER RD	35+01, 72' LT										35											
133	IC-1	FISHER RD	35+01, 72' LT	35+80, 78' LT	91								91											
133	IC-3	FISHER RD	35+01, 72' LT	40+48, 30' LT									560						560					
133	SE U-1	FISHER RD	35+80, 78' LT										75	125	180			1						
133	IC-8	FISHER RD	35+80, 78' LT	36+14, 49' LT	45									45										
133	TC-1	FISHER RD	36+14, 49' LT											10			1							
133	IC-4	FISHER RD	40+48, 30' LT									1	35											
133	IC-5	FISHER RD	40+48, 30' LT	40+34, 55' LT		37	37	29			29		29											
133	IC-6	FISHER RD	40+34, 55' LT	42+03, 195' LT					442	2			221											
133	IC-7	FISHER RD	42+03, 195' LT	43+00, 138' LT				112			112		112											
FISHER RD. BETWEEN STA. 43+00 AND 54+00																								
134	IC-1	FISHER RD	43+00, 138' LT	46+69, 39' LT				394		1	394		394											
134	IC-2	FISHER RD	44+98, 68' LT							1			100											
134	IC-3	FISHER RD	46+69, 39' LT									1	35											
134	IC-4	FISHER RD	46+69, 39' LT	54+00, 25' LT									742						742					
FISHER RD. BETWEEN STA. 54+00 AND 65+00																								
135	IC-1	FISHER RD	54+00, 25' LT	59+84, 25' LT									593						593					
135	IC-2	FISHER RD	58+01, 24' LT										150											
135	IC-3	FISHER RD	59+84, 25' LT	65+00, 24' LT									524			516								
FISHER RD. BETWEEN STA. 65+00 AND 73+00																								
136	IC-1	FISHER RD	65+00, 24' LT	73+00, 33' LT									812			800								
136	IC-2	FISHER RD	66+03, 26' LT										150											
SHEET TOTAL					136	37	37	535	442	4	535	2	4,658	180	180	1,316	1	1	1,895	-	-	-	-	-

AERIAL SAG: 1.5% AERIAL SAG IS INCLUDED IN THE QUANTITIES FOR ANY AERIAL FIBER OR CABLE ITEMS.

3378-E

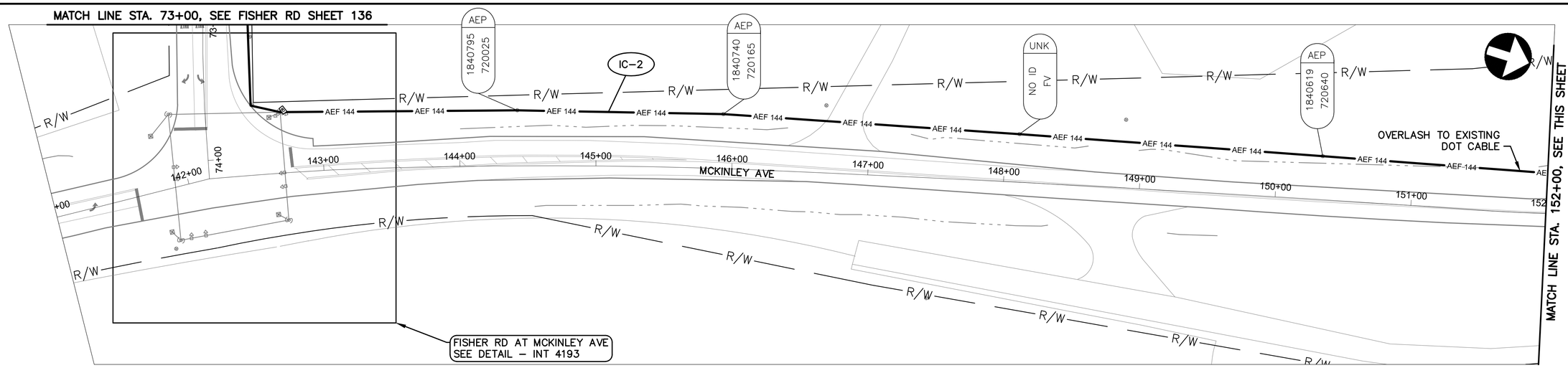
CIP: 540007-100012
PID NUMBER: 99733

FISHER RD BETWEEN STA. 32+00 & 73+00
INT SIG4120

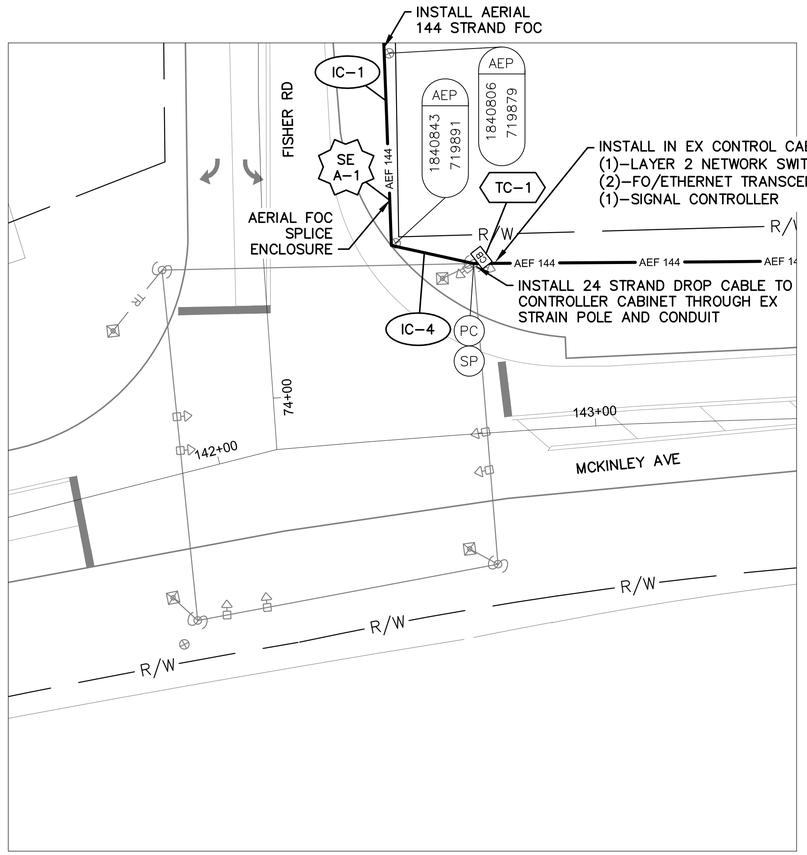
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

137
915

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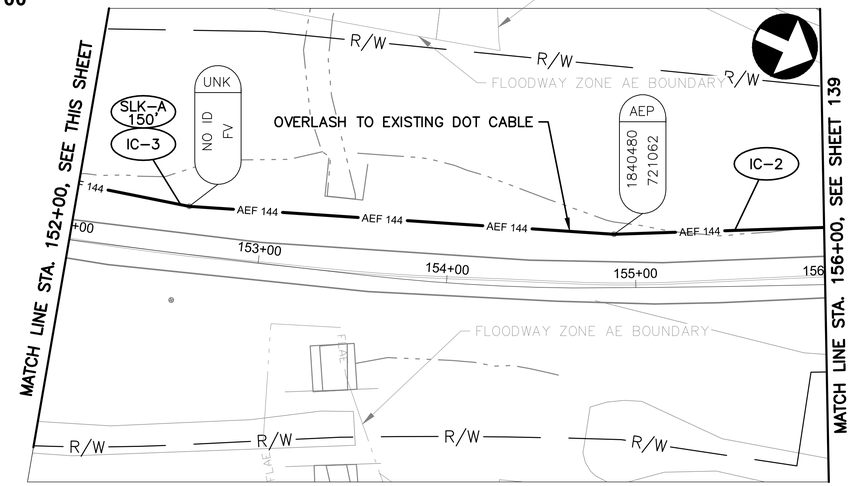


MCKINLEY AVE BETWEEN STATION 141+00 AND 152+00



DETAIL - INT 4193

0 20 40
HORIZONTAL SCALE IN FEET



MCKINLEY AVE BETWEEN STATION 152+00 AND 156+00

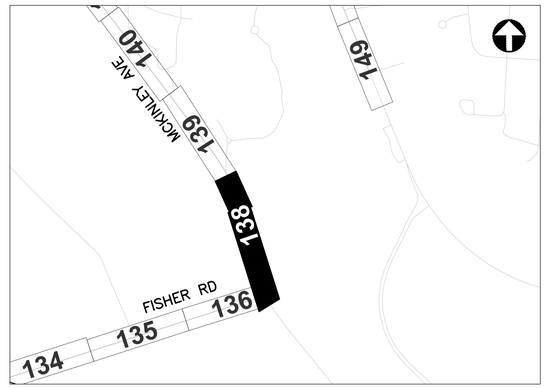
NOTES:

1. SEE SHEET 144 FOR QUANTITIES.
2. SEE SHEETS 614 & 664 FOR COMMUNICATION DETAILS.
3. EXISTING CONDUIT TO CONTROLLER CABINET IS FULL. INSTALL NEW FLEXIBLE CONDUIT TO CABINET FOR PROPOSED DROP CABLE.

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CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 9 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

3378-E

0 40 80
HORIZONTAL SCALE IN FEET

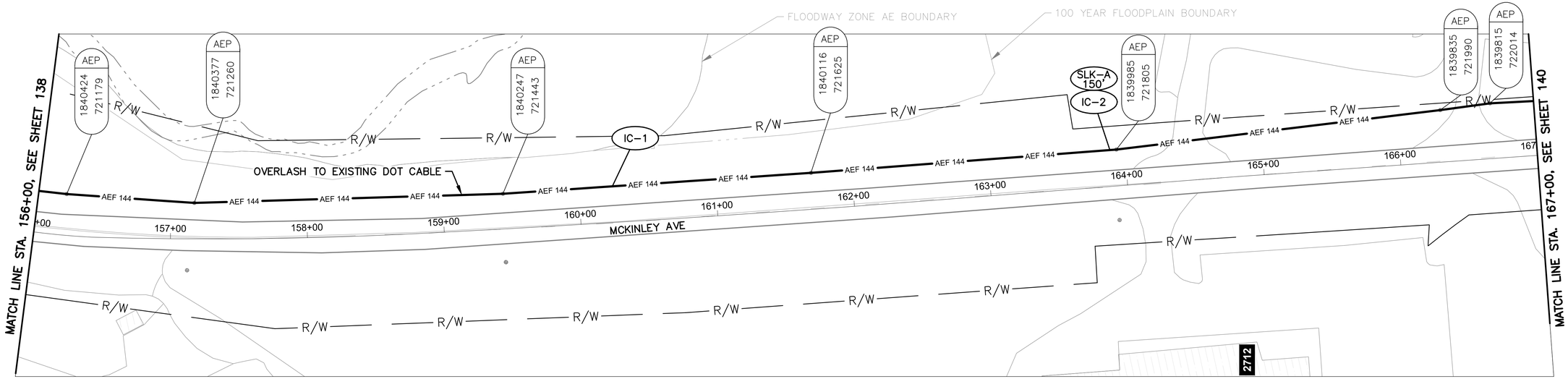
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PID NUMBER: 99733

INTERCONNECT PLAN
MCKINLEY AVE BETWEEN STA. 141+00 AND 156+00, INT 4193

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

138
915

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MCKINLEY AVE BETWEEN STATION 156+00 AND 167+00

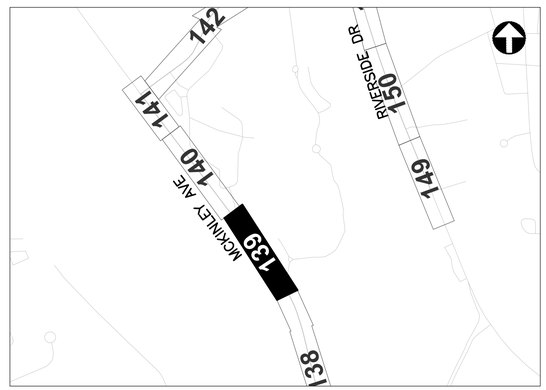
NOTES:

1. SEE SHEET 144 FOR QUANTITIES.
2. SEE SHEET 614 FOR COMMUNICATION DETAILS.

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CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 9 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

HORIZONTAL SCALE IN FEET
0 40 80

CIP: 540007-100012
PID NUMBER: 99733

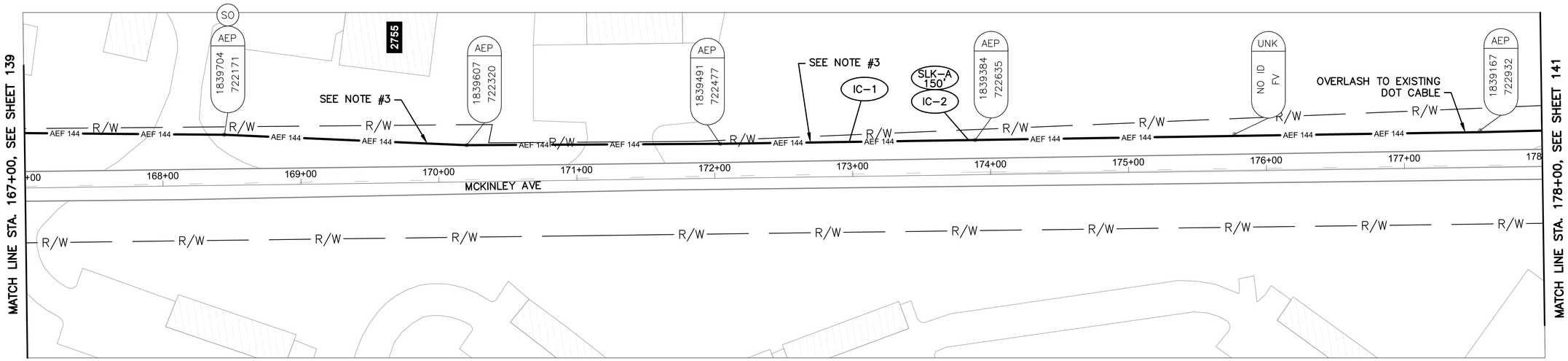
INTERCONNECT PLAN
MCKINLEY AVE BETWEEN STA. 156+00 AND 167+00

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

3378-E

139
915

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MCKINLEY AVE BETWEEN STATION 167+00 AND 178+00

NOTES:

1. SEE SHEET 144 FOR QUANTITIES.
2. SEE SHEET 614 FOR COMMUNICATION DETAILS.
3. INSTALL CABLE GUARD WHERE AERIAL OBSTRUCTIONS ARE PRESENT.

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CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 9 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

HORIZONTAL SCALE IN FEET
0 40 80

CIP: 540007-100012
PID NUMBER: 99733

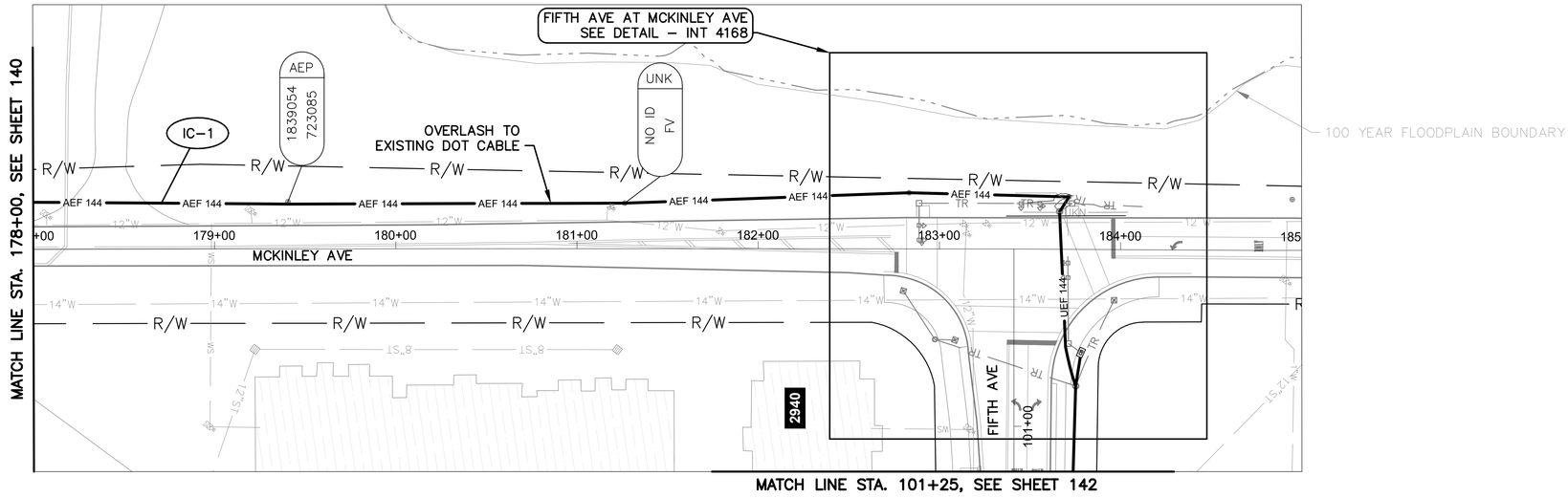
INTERCONNECT PLAN
MCKINLEY AVE BETWEEN STA. 167+00 AND 178+00

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

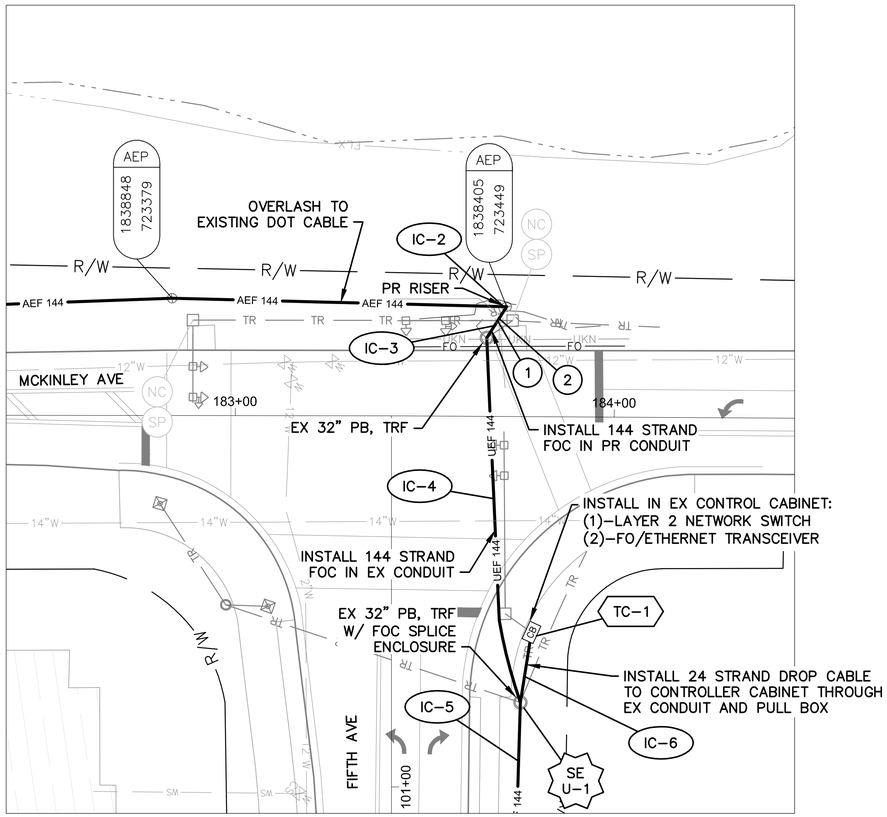
140
915

3378-E

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MCKINLEY AVE BETWEEN STATION 178+00 AND 185+00



DETAIL - INT 4168

0 20 40
HORIZONTAL
SCALE IN FEET

NOTES:

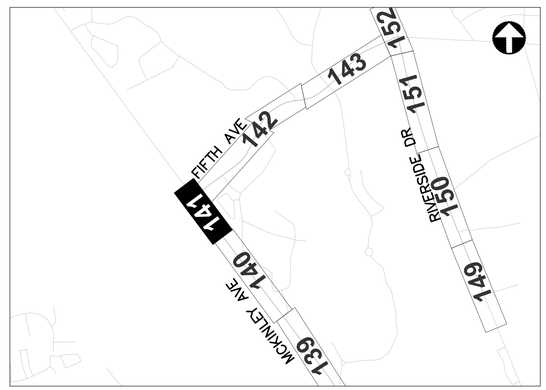
1. SEE SHEET 144 FOR QUANTITIES.
2. SEE SHEETS 614 & 663 FOR COMMUNICATION DETAILS.

(#) EXISTING UTILITY CROSSING.
SEE UTILITY CROSSING INFO
SHEET 17.

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CITY OF COLUMBUS
UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☒ POWER
- ☐ LIGHTING



REFER TO SHEET 9 FOR
INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

0 40 80
HORIZONTAL
SCALE IN FEET

CIP: 540007–100012
PID NUMBER: 99733

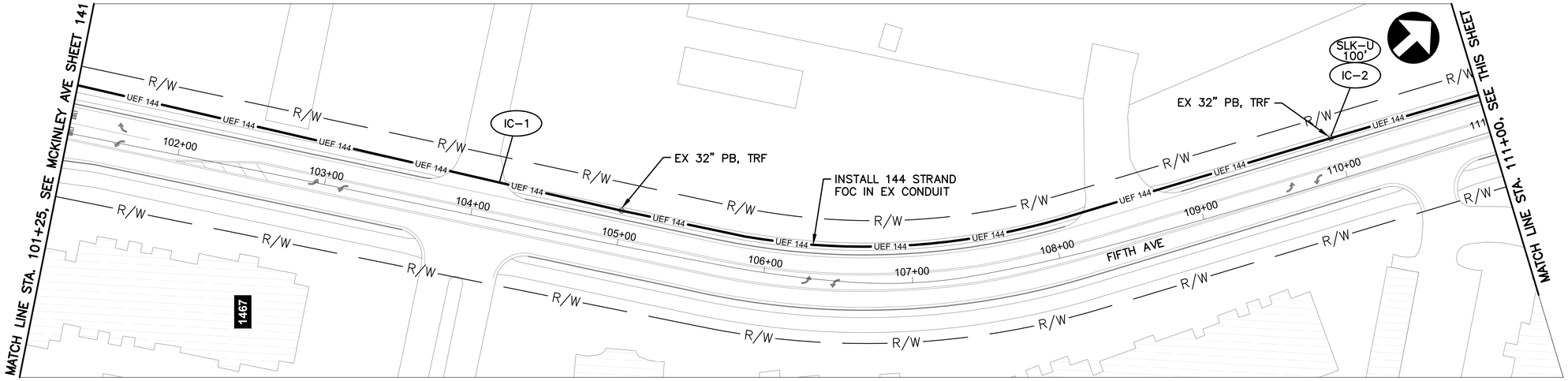
INTERCONNECT PLAN
MCKINLEY AVE BETWEEN STA. 178+00 AND 185+00, INT 4168

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

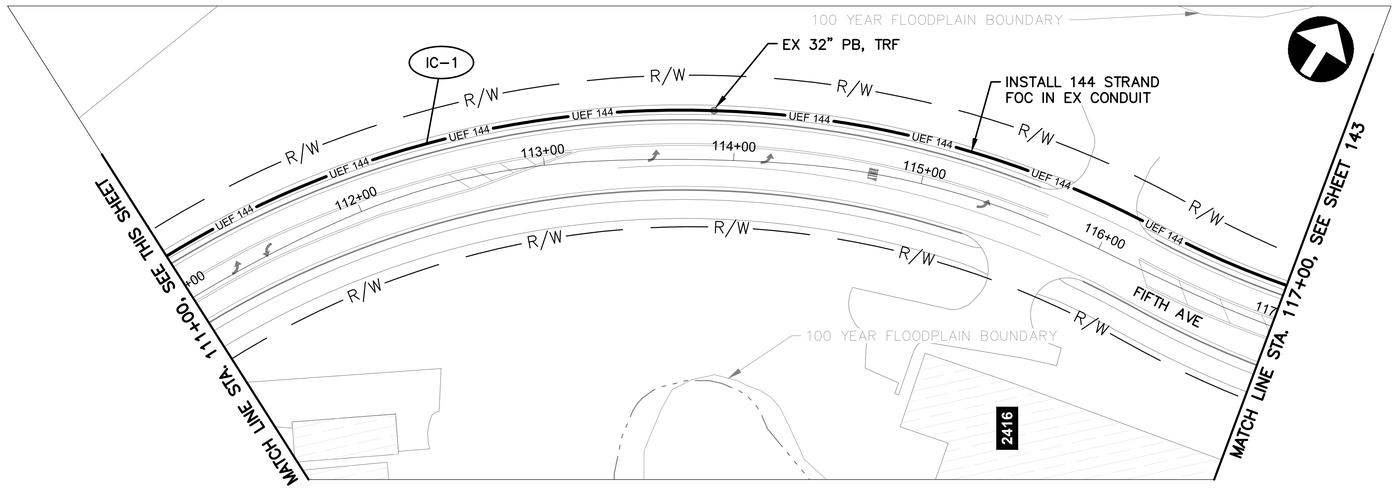
3378-E

141
915

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FIFTH AVE BETWEEN STATION 101+25 AND 111+00



FIFTH BETWEEN STATION 111+00 AND 117+00

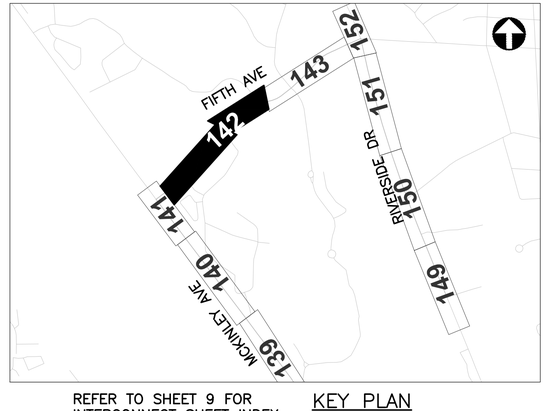
NOTES:

1. SEE SHEET 144 FOR QUANTITIES.
2. SEE SHEET 614 FOR COMMUNICATION DETAILS.

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CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 9 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

HORIZONTAL SCALE IN FEET
0 40 80

CIP: 540007–100012
PID NUMBER: 99733

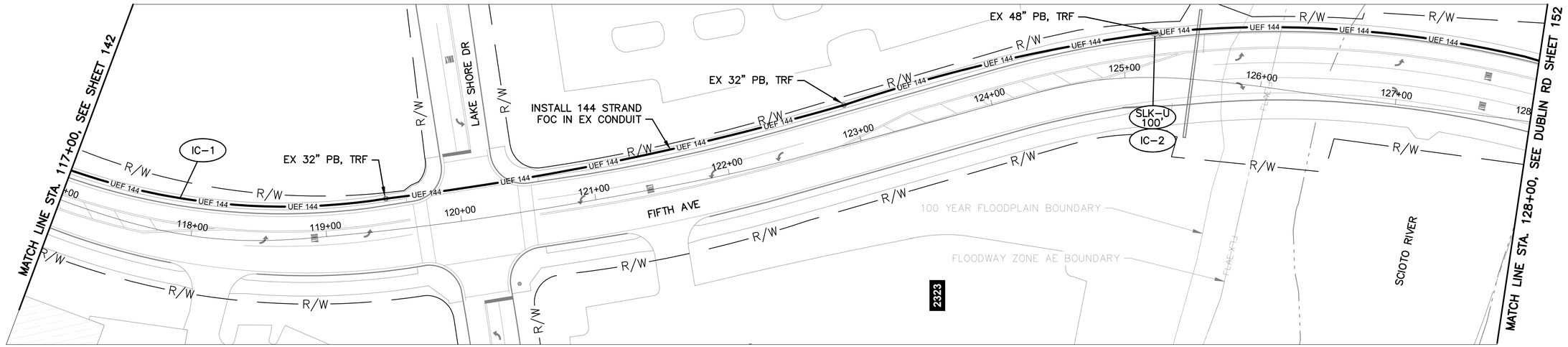
INTERCONNECT PLAN
FIFTH AVE BETWEEN STA. 101+25 AND 117+00

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

142
915

3378-E

J:\Jobs\63721 ctss phase e\TECHPROD\Sheets\CTSS_PhE_Trunk0_FIFTH_INTERCONNECT.dwg ~ FIFTH–1 layout ~ last saved by: gburch 08/20/2018 01:52pm ~ printed 09/11/2018 06:37pm PSLTS: 1 LTS: 1 CAS: 1:1



FIFTH AVE BETWEEN STATION 117+00 AND 128+00

NOTES:

1. SEE SHEET 144 FOR QUANTITIES.
2. SEE SHEET 614 FOR COMMUNICATION DETAILS.

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www.oups.org

CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 9 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

HORIZONTAL SCALE IN FEET
0 40 80

CIP: 540007-100012
PID NUMBER: 99733

INTERCONNECT PLAN
FIFTH AVE BETWEEN STA. 117+00 AND 128+00

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

143
915

3378-E

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ESTIMATED QUANTITIES

SHEET NO.	REFERENCE NO.	LOCATION	STATION		202	625	625	632	632	632	632	632	632	632	633	633	633								
					EXISTING CONDUIT CLEANED, AS PER PLAN	CONDUIT, CONCRETE ENCASED, 2-3", 725.05, AS PER PLAN	TRENCH, 36" DEEP, AS PER PLAN	CONDUIT RISER, 2", 725.04, AS PER PLAN	INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 144 STRAND	INTERCONNECT CABLE, MISC.: FIBER OPTIC DROP CABLE, 24 STRAND	INTERCONNECT CABLE, MISC.: FIBER OPTIC FUSION SPLICE	INTERCONNECT CABLE, MISC.: OVERLASH TO EXISTING INTERCONNECT	INTERCONNECT CABLE, MISC.: TERMINATION PANEL, 24 FIBER	INTERCONNECT, MISC.: SPLICE ENCLOSURE, CLAMSHELL, 288 SPLICE	CONTROLLER ITEM, MISC.: FIBER OPTIC ETHERNET TRANSCEIVER, SHORT RANGE	CONTROLLER ITEM, MISC.: LAYER 2 ETHERNET SWITCH	CONTROLLER UNIT, TYPE TS2/A2, AS PER PLAN							
			FROM	TO	FT	FT	FT	EACH	FT	FT	EACH	FT	EACH	EACH	EACH	EACH	EACH							
MCKINLEY AVE. BETWEEN STA. 141+00 AND 156+00, INT 4193																									
138	IC-4	MCKINLEY AVE	142+49, 51' LT	142+70, 45' LT						22															
138	SE A-1	MCKINLEY AVE	142+50, 52' LT						150	125	24			1											
138	IC-1	MCKINLEY AVE	142+52, 111' LT	142+70, 45' LT					83			82													
138	TC-1	MCKINLEY AVE	142+70, 45' LT							45			1		2	1	1								
138	IC-2	MCKINLEY AVE	142+70, 45' LT	156+00, 30' LT					1,349			1,329													
138	IC-3	MCKINLEY AVE	152+55, 26' LT						150																
MCKINLEY AVE. BETWEEN STA. 156+00 AND 167+00																									
139	IC-1	MCKINLEY AVE	156+00, 30' LT	167+00, 40' LT					1,111			1,094													
139	IC-2	MCKINLEY AVE	163+89, 26' LT						150																
MCKINLEY AVE. BETWEEN STA. 167+00 AND 178+00																									
140	IC-1	MCKINLEY AVE	167+00, 40' LT	178+00, 26' LT					1,117			1,100													
140	IC-2	MCKINLEY AVE	173+84, 25' LT						150																
MCKINLEY AVE. BETWEEN STA. 178+00 AND 185+00, INT 4168																									
141	IC-1	MCKINLEY AVE	178+00, 26' LT	183+71, 29' LT					581			572													
141	IC-3	MCKINLEY AVE	183+65, 19' LT	183+71, 29' LT		12	12		12																
141	IC-4	MCKINLEY AVE	183+65, 19' LT	183+75, 75' RT	96				96																
141	IC-2	MCKINLEY AVE	183+71, 29' LT					1	35																
141	IC-5	MCKINLEY AVE	183+74, 123' RT	183+75, 75' RT	47				47																
141	SE U-1	MCKINLEY AVE	183+75, 75' RT						150	125	24			1											
141	IC-6	MCKINLEY AVE	183+75, 75' RT	183+78, 57' RT	19					19															
141	TC-1	MCKINLEY AVE	183+78, 57' RT							10			1		2	1									
FIFTH AVE. BETWEEN STA. 101+25 AND 117+00																									
142	IC-1	FIFTH AVE	101+25, 33' LT	117+00, 23' LT	1,586				1,586																
142	IC-2	FIFTH AVE	109+96, 28' LT						100																
FIFTH AVE. BETWEEN STA. 117+00 AND 128+00																									
143	IC-1	FIFTH AVE	117+00, 23' LT	128+00, 45' LT	1,099				1,099																
143	IC-2	FIFTH AVE	125+21, 33' LT						100																
SHEET TOTAL					2,847	12	12	1	8,066	346	48	4,177	2	2	4	2	1	-	-	-	-	-	-	-

AERIAL SAG: 1.5% AERIAL SAG IS INCLUDED IN THE QUANTITIES FOR ANY AERIAL FIBER OR CABLE ITEMS.

3378-E

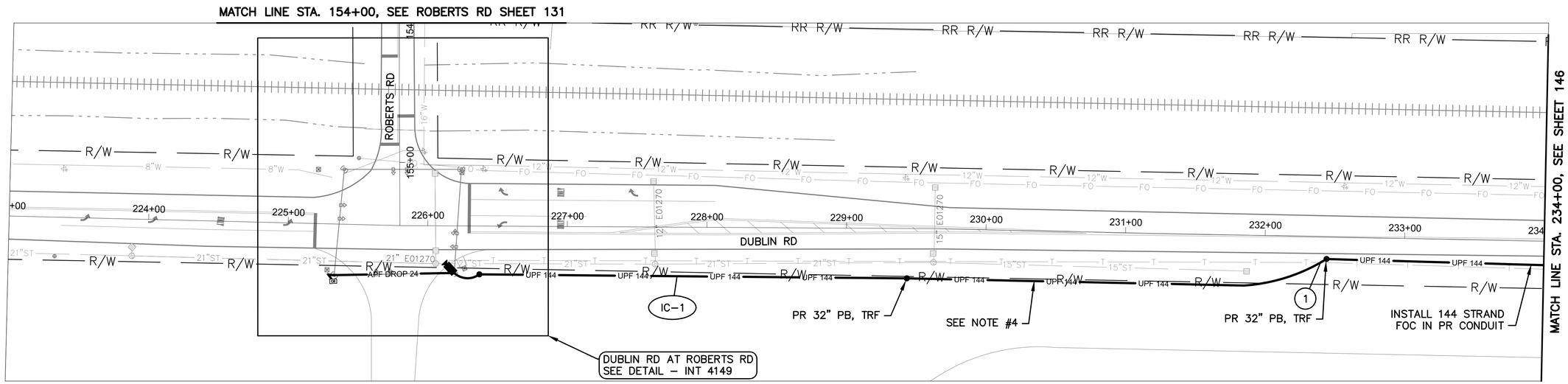
CIP: 540007-100012
PID NUMBER: 99733

MCKINLEY AVE BETWEEN STA. 141+00 & 185+00
FIFTH AVE BETWEEN STA. 101+25 & 128+00, INTS 4193, 4168

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

144
915

J:\Jobs\63721 CTSS Phase E\TECHPROD\Sheets\CTSS_PhE_Trunk0_FIFTH_IC_QUANTITIES.dwg – FIFTH AVE-Q1 layout ~ last saved by: gburch 09/11/2018 08:25am ~ printed 09/18/2018 09:41am PSLTS: 1 LTS: 1 CAS: 1:1



DUBLIN RD BETWEEN STATION 223+00 AND 234+00

DETAIL - INT 4149

0 20 40
HORIZONTAL SCALE IN FEET

CABLE SCHEMATIC - INT 4149
NOT TO SCALE

NOTES:

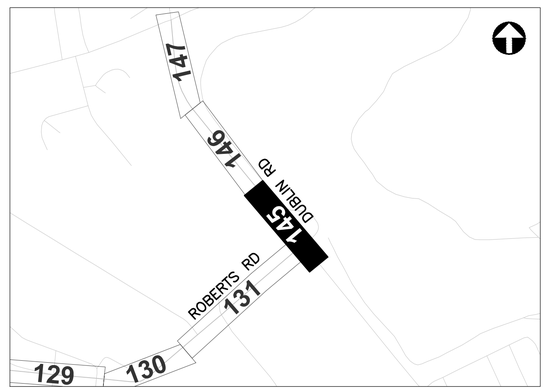
1. SEE SHEET 148 FOR QUANTITIES.
2. SEE SHEETS 614 & 662 FOR COMMUNICATION DETAILS.
3. SIGNAL MAINTENANCE AGREEMENT CT–00966R IN PLACE BETWEEN CITY OF COLUMBUS AND SHELLY MATERIALS MARBLE CLIFF QUARRY FOR MAINTENANCE OF TRAFFIC SIGNAL INFRASTRUCTURE AT INT 4149.

(#) EXISTING UTILITY CROSSING. SEE UTILITY CROSSING INFO SHEET 17.

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CITY OF COLUMBUS UTILITY LEGEND

☒	SEWER
☒	WATER
☐	POWER
☐	LIGHTING



REFER TO SHEET 9 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

3378-E

0 40 80
HORIZONTAL SCALE IN FEET

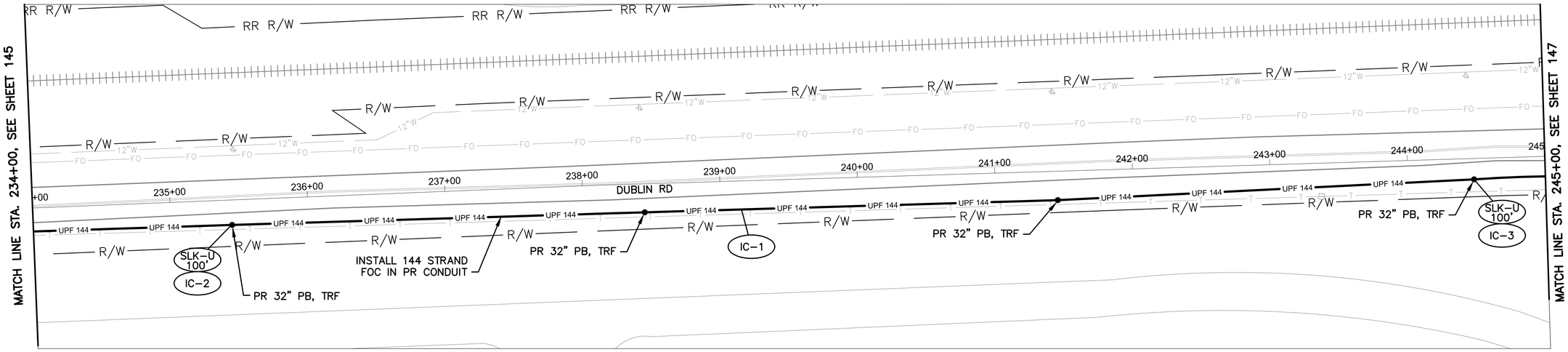
CIP: 540007–100012
PID NUMBER: 99733

INTERCONNECT PLAN
DUBLIN RD BETWEEN STA. 223+00 AND 234+00, INT 4149

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

145
915

J:\Jobs\63721 ctss phase e\TECHPROD\Sheets\CTSS_PhE_TrunkO_DUBLIN_INTERCONNECT.dwg ~ DUBLIN–7 layout ~ last saved by: gburch 09/18/2018 01:27pm ~ printed 09/18/2018 02:00pm PSLTS: 1 LTS: 1 CAS: 1:1



DUBLIN RD BETWEEN STATION 234+00 AND 245+00

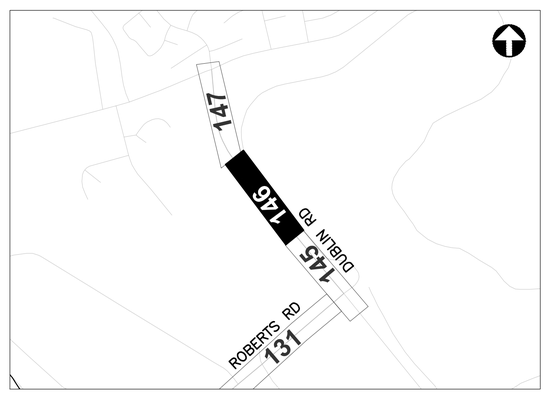
NOTES:

1. SEE SHEET 148 FOR QUANTITIES.
2. SEE SHEET 614 FOR COMMUNICATION DETAILS.

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CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☒ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 9 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

HORIZONTAL SCALE IN FEET
0 40 80

CIP: 540007-100012
PID NUMBER: 99733

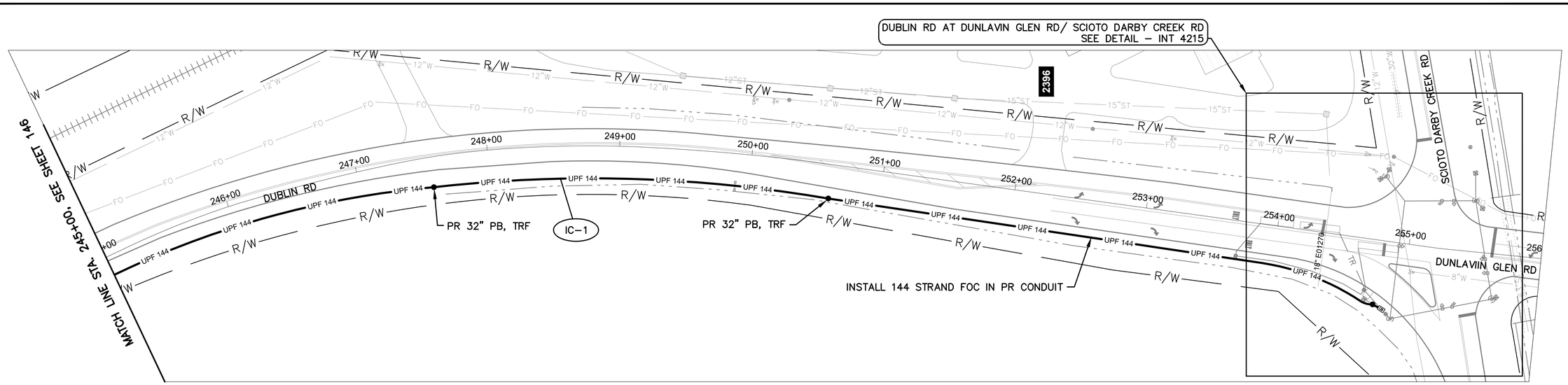
INTERCONNECT PLAN
DUBLIN RD BETWEEN STA. 234+00 AND 245+00

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

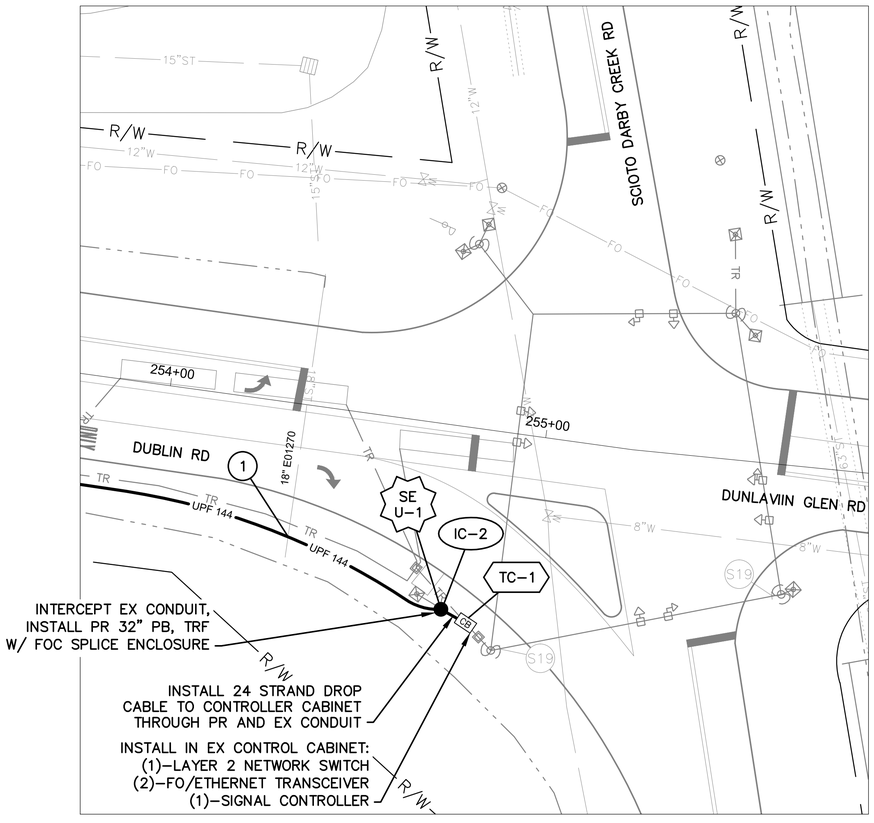
146
915

3378-E

j:\Jobs\63721 ctss phase e\TECHPROD\Sheets\CTSS_PhE_TrunkO_DUBLIN_INTERCONNECT.dwg – DUBLIN–8 layout ~ last saved by: gburch 09/07/2018 11:37am ~ printed 09/11/2018 06:43pm PSLTS: 1 LTS: 1 CAS: 1:1



DUBLIN RD BETWEEN STATION 245+00 AND 256+00



DETAIL - INT 4215

0 20 40
HORIZONTAL SCALE IN FEET

NOTES:

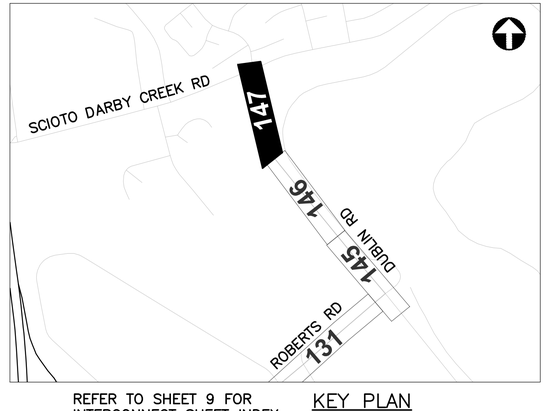
1. SEE SHEET 148 FOR QUANTITIES.
2. SEE SHEETS 614 & 661 FOR COMMUNICATION DETAILS.

(#) EXISTING UTILITY CROSSING. SEE UTILITY CROSSING INFO SHEET 17.

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CITY OF COLUMBUS UTILITY LEGEND

- ☒ SEWER
- ☒ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 9 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

0 40 80
HORIZONTAL SCALE IN FEET

CIP: 540007–100012
PID NUMBER: 99733

INTERCONNECT PLAN
DUBLIN RD BETWEEN STA. 245+00 AND 256+00, INT 4215

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

147
915

3378-E

J:\Jobs\63721 CTSS Phase E\TECHPROD\Sheets\CTSS_PhE_TrunkO_DUBLIN_INTERCONNECT.dwg ~ DUBLIN-9 layout ~ last saved by: gburch 09/13/2018 03:29pm ~ printed 09/13/2018 04:55pm PSLTS: 1 LTS: 1 CAS: 1:1

ESTIMATED QUANTITIES

SHEET NO.	REFERENCE NO.	LOCATION	STATION		202	625	625	625	632	632	632	632	632	632	632	632	632	633	633	633				
					EXISTING CONDUIT CLEANED, AS PER PLAN	CONDUIT, CONCRETE ENCASED, 2-3", 725.05, AS PER PLAN	PULL BOX, CONCRETE 32", AS PER PLAN	TRENCH, 36" DEEP, AS PER PLAN	CONDUIT RISER, 2", 725.04, AS PER PLAN	INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 144 STRAND	INTERCONNECT CABLE, MISC.: FIBER OPTIC DROP CABLE, 24 STRAND	INTERCONNECT CABLE, MISC.: FIBER OPTIC FUSION SPLICE	INTERCONNECT CABLE, MISC.: TERMINATION PANEL, 24 FIBER	INTERCONNECT, MISC.: SPLICE ENCLOSURE, CLAMSHELL, 288 SPLICE	MESSENGER WIRE, 7 STRAND, 1/4" DIAMETER WITH ACCESSORIES, AS PER PLAN	SIGNALIZATION, MISC.: CCTV COMPOSITE CABLE	SIGNALIZATION, MISC.: CCTV IP-CAMERA SYSTEM	CONTROLLER ITEM, MISC.: FIBER OPTIC ETHERNET TRANSCEIVER, SHORT RANGE	CONTROLLER ITEM, MISC.: LAYER 2 ETHERNET SWITCH	CONTROLLER UNIT, TYPE TS2/A2, AS PER PLAN				
			FROM	TO	FT	FT	EACH	FT	EACH	FT	FT	EACH	EACH	EACH	FT	FT	EACH	EACH	EACH	EACH				
DUBLIN RD. BETWEEN STA. 223+00 AND 234+00, INT 4149																								
145	IC-4	DUBLIN RD	225+33, 37' RT	226+19, 34' RT							87				87									
145	EC-1	DUBLIN RD	225+33, 37' RT	226+19, 34' RT												192								
145	EC-2	DUBLIN RD	225+33, 37' RT													70								
145	IC-5	DUBLIN RD	225+33, 37' RT								35													
145	IC-6	DUBLIN RD	225+33, 41' RT	225+33, 37' RT	10						10													
145	EC-3	DUBLIN RD	225+33, 41' RT	225+33, 37' RT												20								
145	TC-1	DUBLIN RD	225+33, 41' RT								10		1			20		2	1	1				
145	CTV-1	DUBLIN RD	226+19, 34' RT														1							
145	IC-2	DUBLIN RD	226+19, 34' RT	226+37, 35' RT		18		18			18													
145	IC-3	DUBLIN RD	226+19, 34' RT						1		35													
145	SE U-1	DUBLIN RD	226+37, 35' RT				1			150	125	24		1										
145	IC-1	DUBLIN RD	226+37, 35' RT	234+00, 19' RT		775	2	775		775														
DUBLIN RD. BETWEEN STA. 234+00 AND 245+00																								
146	IC-1	DUBLIN RD	234+00, 19' RT	245+00, 15' RT		1,100	2	1,100		1,100														
146	IC-2	DUBLIN RD	235+44, 18' RT				1			100														
146	IC-3	DUBLIN RD	244+48, 15' RT				1			100														
DUBLIN RD. BETWEEN STA. 245+00 AND 256+00, INT 4215																								
147	IC-1	DUBLIN RD	245+00, 15' RT	254+78, 49' RT		968	2	968		968														
147	SE U-1	DUBLIN RD	254+78, 49' RT				1			75	125	12		1										
147	IC-2	DUBLIN RD	254+78, 49' RT	254+85, 51' RT	7						7													
147	TC-1	DUBLIN RD	254+85, 51' RT								10		1					2	1	1				
SHEET TOTAL					17	2,861	10	2,861	1	3,268	462	36	2	2	87	302	1	4	2	2	-	-	-	-

AERIAL SAG: 1.5% AERIAL SAG IS INCLUDED IN THE QUANTITIES FOR ANY AERIAL FIBER OR CABLE ITEMS.

3378-E

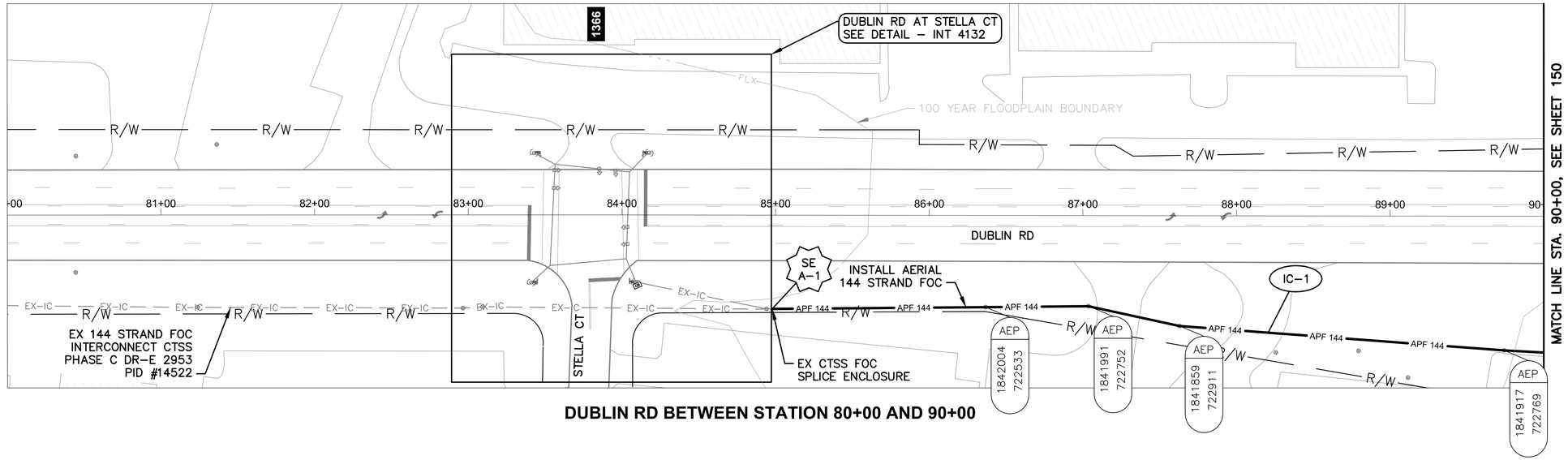
CIP: 540007–100012
PID NUMBER: 99733

DUBLIN RD BETWEEN STA. 223+00 & 256+00
INTS 4149, 4215

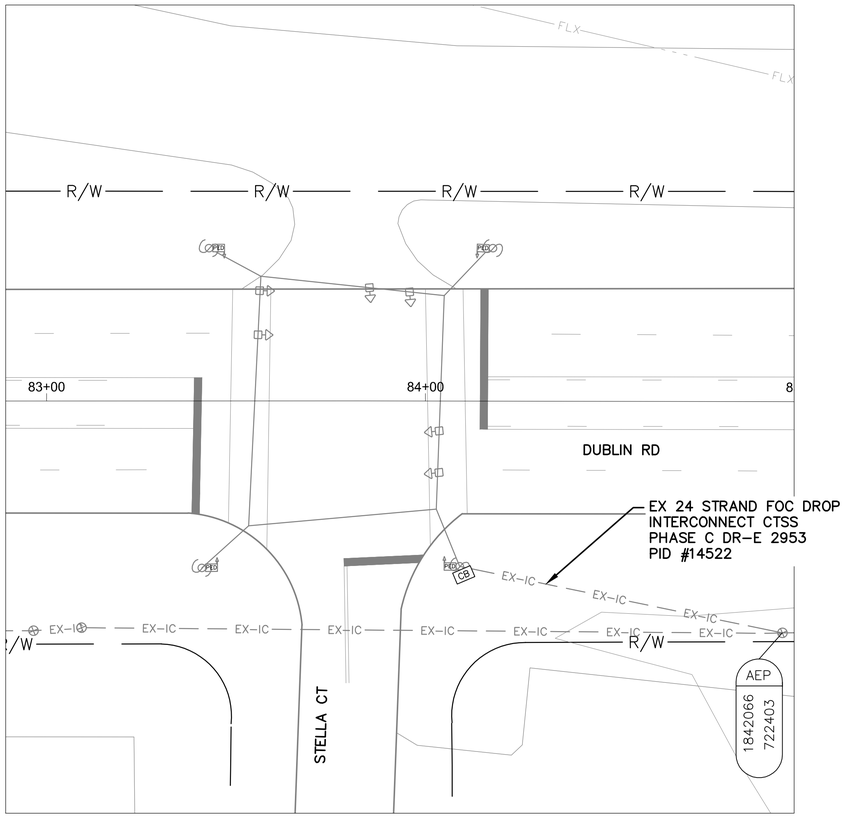
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

148
915

J:\Jobs\63721 CTSS Phase E\TECHPROD\Sheets\CTSS_PhE_TrunkD_DUBLIN_JC_QUANTITIES.dwg – DUBLIN RD-02 layout ~ last saved by: gburch 09/11/2018 08:26am ~ printed 09/18/2018 02:07pm PSLTS: 1 LTS: 1 CAS: 1:1



DUBLIN RD BETWEEN STATION 80+00 AND 90+00



DETAIL - INT 4132

0 20 40
HORIZONTAL
SCALE IN FEET

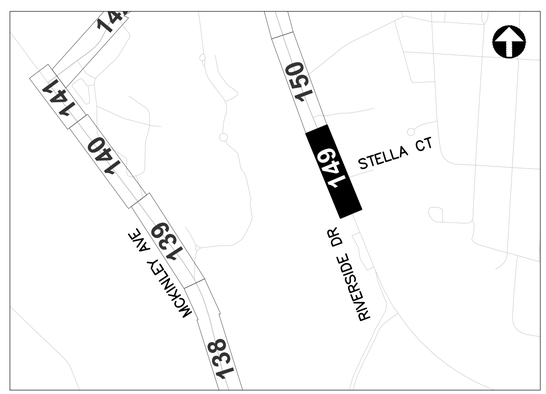
NOTES:

1. SEE SHEET 153 FOR QUANTITIES.
2. SEE SHEET 614 & 670 FOR COMMUNICATION DETAILS.

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CITY OF COLUMBUS
UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 9 FOR
INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

0 40 80
HORIZONTAL
SCALE IN FEET

CIP: 540007-100012
PID NUMBER: 99733

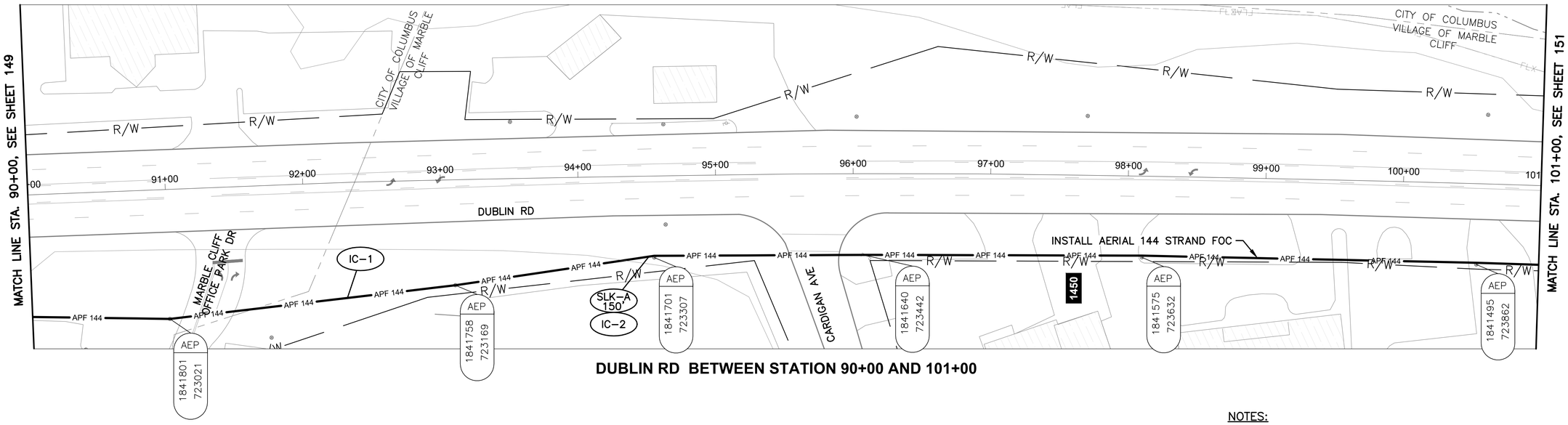
INTERCONNECT PLAN
DUBLIN RD BETWEEN STA. 80+00 AND 90+00, INT 4132

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

149
915

3378-E

J:\Jobs\63721 ctss phase e\TECHPROD\Sheets\CTSS_PhE_Trunk0_RIVERSIDE_INTERCONNECT.dwg – RIVERSIDE-1 layout ~ last saved by: rwegehaupt 08/31/2018 11:54am ~ printed 09/11/2018 06:48pm PSLTS: 1 LTS: 1 CAS: 1:1



DUBLIN RD BETWEEN STATION 90+00 AND 101+00

NOTES:

1. SEE SHEET 153 FOR QUANTITIES.
2. SEE SHEET 614 FOR COMMUNICATION DETAILS.

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CITY OF COLUMBUS
UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 9 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

3378-E

HORIZONTAL SCALE IN FEET
0 40 80

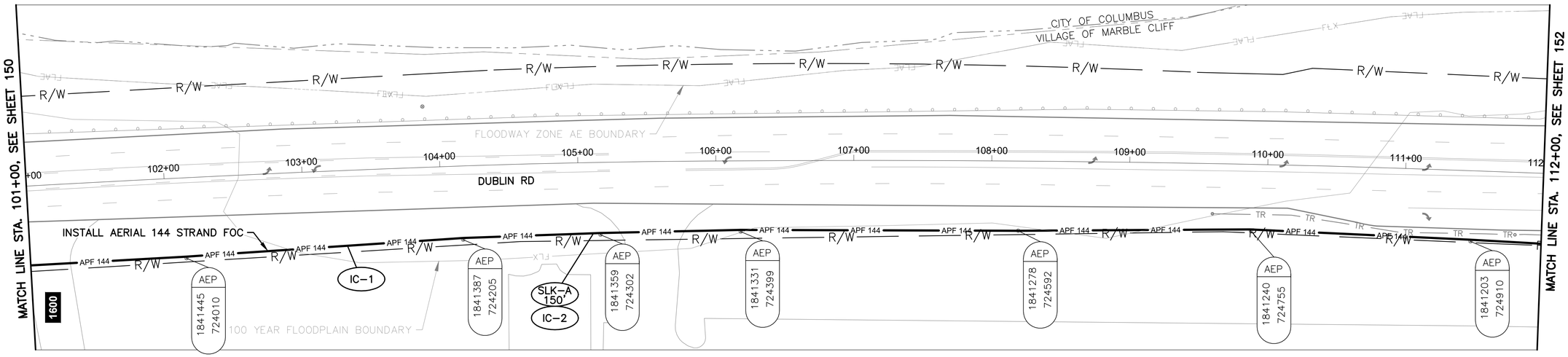
CIP: 540007-100012
PID NUMBER: 99733

INTERCONNECT PLAN
DUBLIN RD BETWEEN STA. 90+00 AND 101+00

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

150
915

J:\Jobs\163721 ctss phase e\TECHPROD\Sheets\CTSS_PhE_Trunk0_RIVERSIDE_INTERCONNECT.dwg – RIVERSIDE-2 layout ~ last saved by: rweghaupt 08/31/2018 11:54am ~ printed 09/11/2018 06:50pm PSLTS: 1 LTS: 1 CAS: 1:1



DUBLIN RD BETWEEN STATION 101+00 AND 112+00

NOTES:

1. SEE SHEET 153 FOR QUANTITIES.
2. SEE SHEET 614 FOR COMMUNICATION DETAILS.

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CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 9 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

3378-E

HORIZONTAL SCALE IN FEET
0 40 80

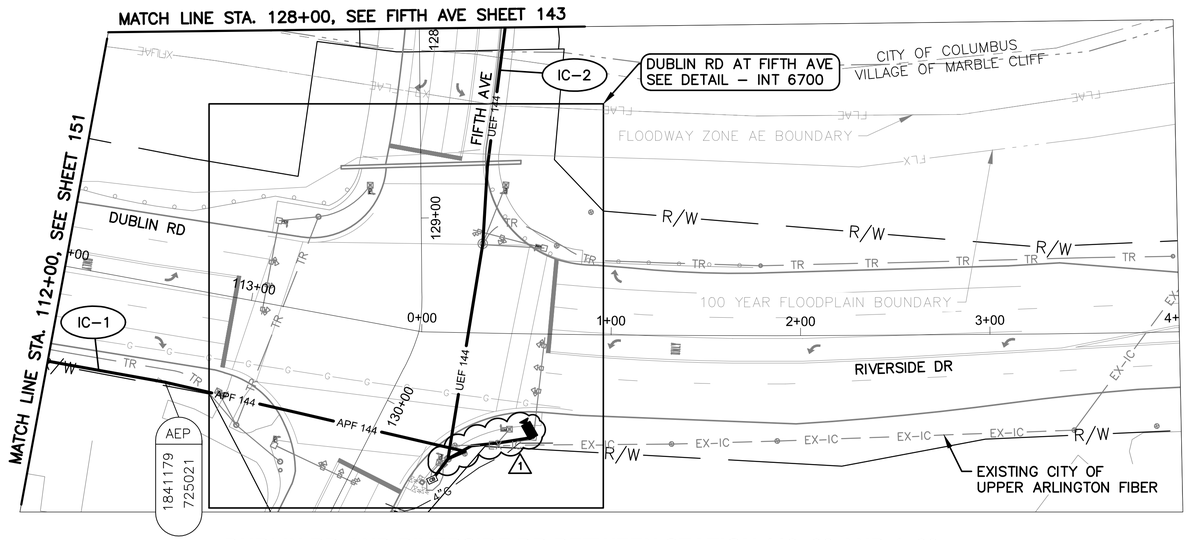
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PID NUMBER: 99733

INTERCONNECT PLAN
DUBLIN RD BETWEEN STA. 101+00 AND 112+00

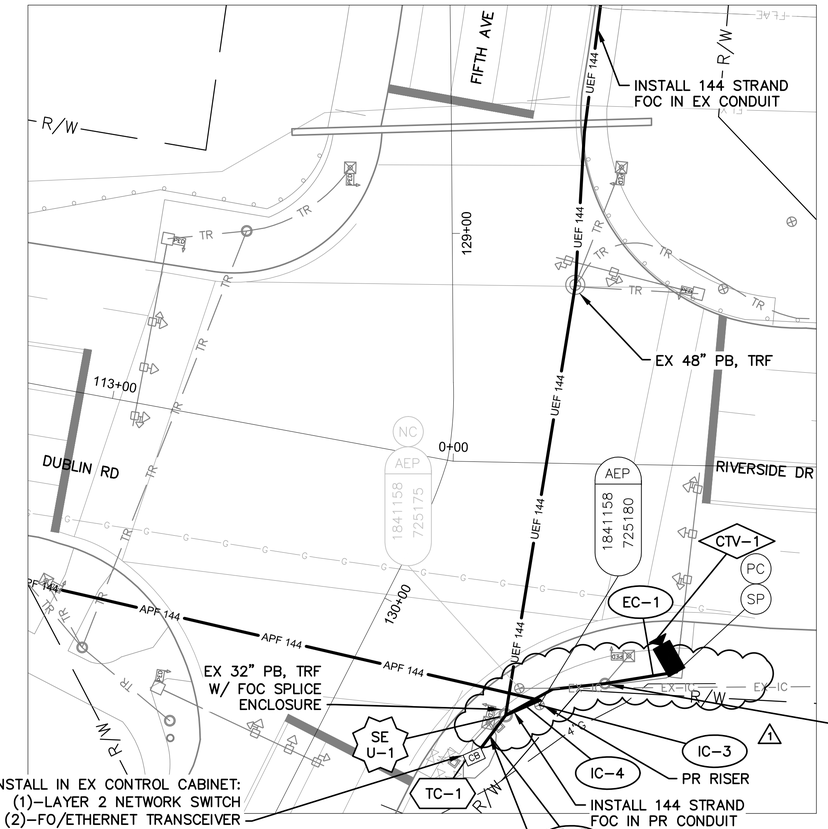
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

151
915

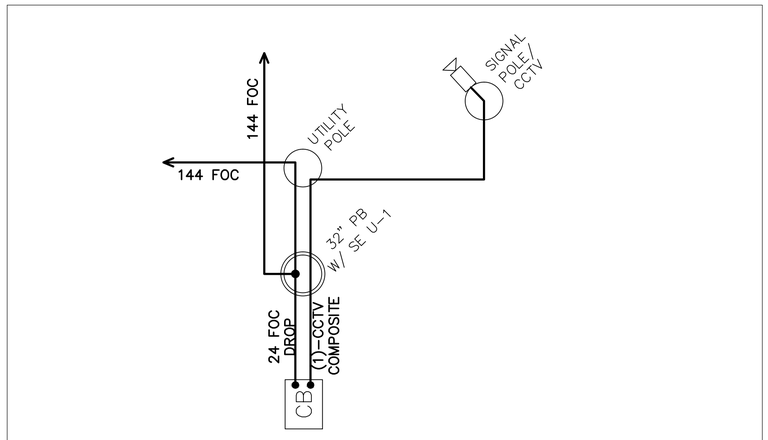
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DUBLIN RD AND RIVERSIDE DR BETWEEN STATION 112+00 AND 4+00



DETAIL - INT 6700



CABLE SCHEMATIC - INT 6700
NOT TO SCALE

NOTES:

1. SEE SHEET 153 FOR QUANTITIES.
2. SEE SHEETS 614 & 669 FOR COMMUNICATION DETAILS.

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CITY OF COLUMBUS
UTILITY LEGEND

- ☒ SEWER
- ☒ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 9 FOR
INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

HORIZONTAL
SCALE IN FEET
0 40 80

CIP: 540007–100012
PID NUMBER: 99733

INTERCONNECT PLAN
DUBLIN RD AND RIVERSIDE DR BETWEEN STA. 112+00 AND 4+00, INT 6700

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

⚠1 REVISION 1.0
11–02–2018

3378-E

152
915

J:\Jobs\63721 CTSS Phase E\TECHPROD\Sheets\CTSS_PhE_TrunkO_RIVERSIDE_INTERCONNECT.dwg ~ RIVERSIDE–4 layout ~ last saved by: jbeans 11/05/2018 04:21pm ~ printed 11/06/2018 12:08pm PSLTS: 1 LTS: 1 CAS: 1:1

ESTIMATED QUANTITIES

SHEET NO.	REFERENCE NO.	LOCATION	STATION		202	625	625	632	632	632	632	632	632	632	632	633	633
					EXISTING CONDUIT CLEANED, AS PER PLAN	CONDUIT, CONCRETE ENCASED, 2-3", 725.05, AS PER PLAN	TRENCH, 36" DEEP, AS PER PLAN	INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 144 STRAND	INTERCONNECT CABLE, MISC.: FIBER OPTIC DROP CABLE, 24 STRAND	INTERCONNECT CABLE, MISC.: FIBER OPTIC FUSION SPLICE	INTERCONNECT CABLE, MISC.: TERMINATION PANEL, 24 FIBER	INTERCONNECT, MISC.: SPLICE ENCLOSURE, CLAMSHELL, 288 SPLICE	MESSENGER WIRE, 7 STRAND, 1/4" DIAMETER WITH ACCESSORIES, AS PER PLAN	SIGNALIZATION, MISC.: CCTV COMPOSITE CABLE	SIGNALIZATION, MISC.: CCTV IP-CAMERA SYSTEM	CONTROLLER ITEM, MISC.: FIBER OPTIC ETHERNET TRANSCEIVER, SHORT RANGE	CONTROLLER ITEM, MISC.: LAYER 2 ETHERNET SWITCH
			FROM	TO	FT	FT	FT	FT	FT	EACH	EACH	EACH	FT	FT	EACH	EACH	EACH
DUBLIN RD. BETWEEN STA. 80+00 AND 90+00, INT 4132																	
149	SE A-1	DUBLIN RD	84+94, 61' RT					75		144							
149	IC-1	DUBLIN RD	84+97, 61' RT	90+00, 89' RT				512					512				
DUBLIN RD. BETWEEN STA. 90+00 AND 101+00																	
150	IC-1	DUBLIN RD	90+00, 89' RT	101+00, 58' RT				1,113					1,113				
150	IC-2	DUBLIN RD	94+50, 59' RT					150									
DUBLIN RD. BETWEEN STA. 101+00 AND 112+00																	
151	IC-1	DUBLIN RD	101+00, 58' RT	112+00, 51' RT				1,112					1,112				
151	IC-2	DUBLIN RD	105+10, 51' RT					150									
DUBLIN RD. / RIVERSIDE DR. BETWEEN STA. 112+00 AND 4+00, INT 6700																	
152	IC-1	DUBLIN RD/RIVERSIDE DR	112+00, 51' RT	0+24, 64' RT				226					226				
152	TC-1	RIVERSIDE DR	0+07, 78' RT						20		2			20		2	1
152	IC-5	RIVERSIDE DR	0+07, 78' RT	0+15, 67' RT	14				14								
152	EC-2	RIVERSIDE DR	0+07, 78' RT	0+15, 67' RT										14			
152	SE U-1	RIVERSIDE DR	0+15, 67' RT					150	125	24		1					
152	IC-2	RIVERSIDE DR	0+15, 67' RT	0+41, 161' LT	230			230									
152	IC-4	RIVERSIDE DR	0+15, 67' RT	0+24, 64' RT		10	10	10									
152	EC-1	RIVERSIDE DR	0+15, 67' RT	0+60, 55' RT													
152	IC-3	RIVERSIDE DR	0+24, 64' RT	0+60, 55' RT				35									
152	CTV-1	RIVERSIDE DR	0+60, 55' RT										1	35	1		
SHEET TOTAL					244	10	10	3,763	159	168	2	1	2,963	69	1	2	1

-	-	-	-	-	-	-	-	-

1 REVISION 1.0 11-02-2018

AERIAL SAG: 1.5% AERIAL SAG IS INCLUDED IN THE QUANTITIES FOR ANY AERIAL FIBER OR CABLE ITEMS.

3378-E

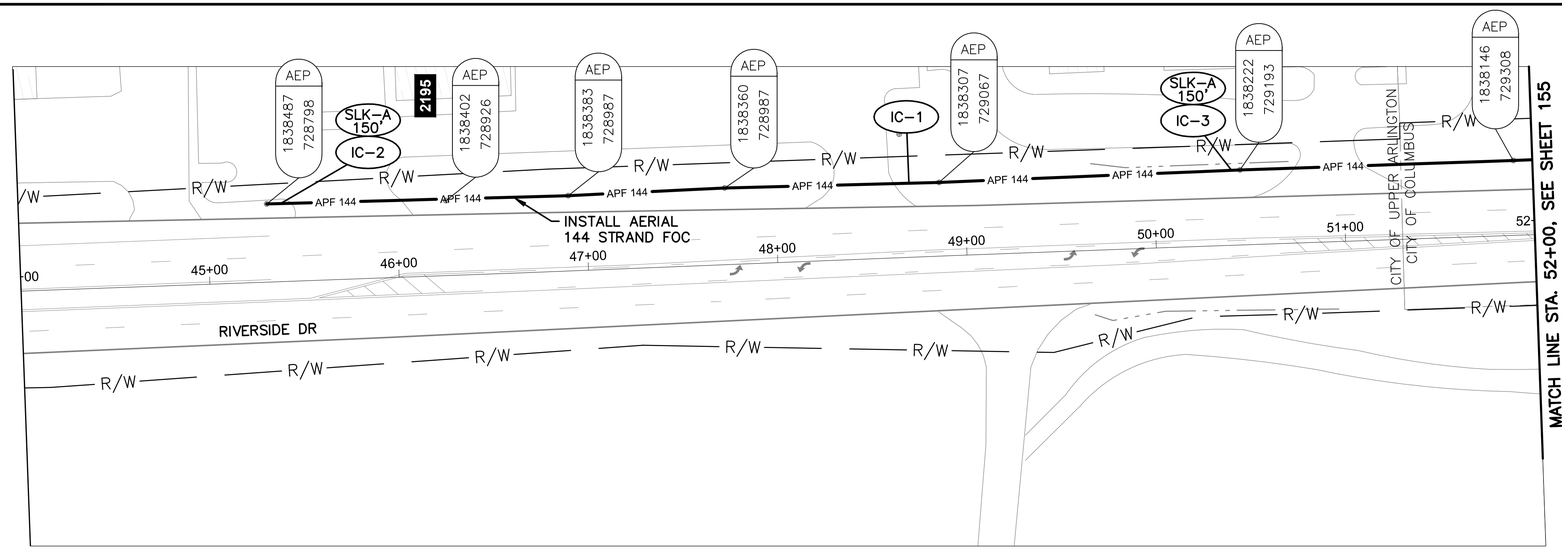
CIP: 540007-100012
PID NUMBER: 99733

DUBLIN RD BETWEEN STA. 80+00 & 113+00
RIVERSIDE DR BETWEEN STA. 0+00 & 4+00, INTS 4132, 6700

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

153
915

J:\Jobs\63721 CTSS Phase E\TECHPROD\Sheets\CTSS_PhE_Trunk0_RIVERSIDE_JC_QUANTITIES.dwg – RIVERSIDE DR-Q1 layout ~ last saved by: jbeams 11/05/2018 02:40pm ~ printed 11/06/2018 12:08pm PSLTS: 1 LTS: 1 CAS: 1:1



RIVERSIDE DR BETWEEN STATION 44+00 AND 52+00

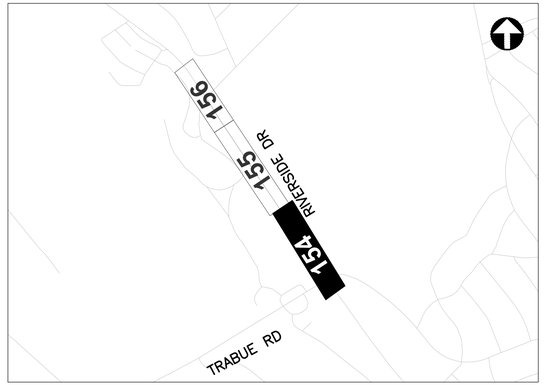
NOTES:

1. SEE SHEET 157 FOR QUANTITIES.
2. SEE SHEET 614 FOR COMMUNICATION DETAILS.

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CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 9 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

HORIZONTAL SCALE IN FEET
0 40 80

CIP: 540007-100012
PID NUMBER: 99733

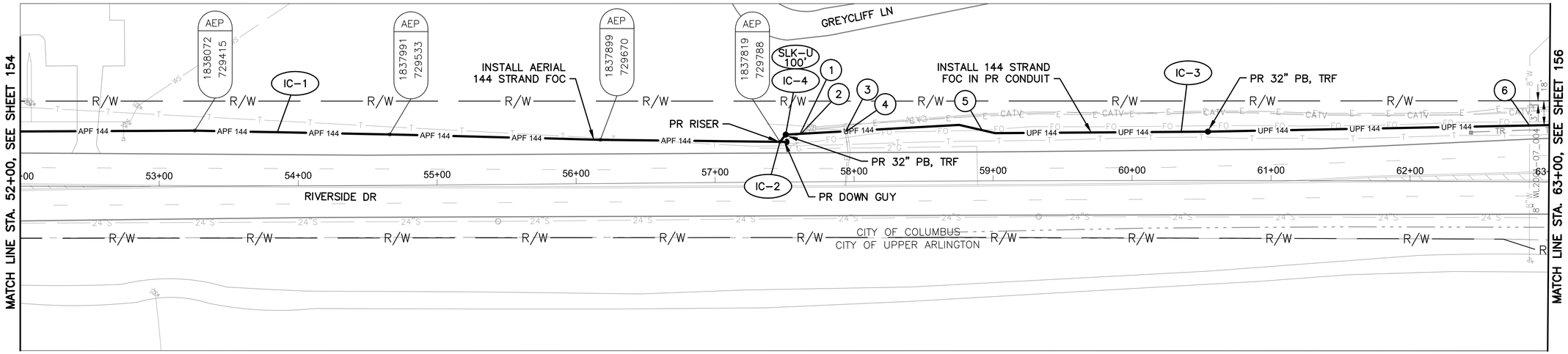
INTERCONNECT PLAN
RIVERSIDE DR BETWEEN STA. 44+00 AND 52+00

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

154
915

3378-E

J:\Jobs\63721 ctss phase e\TECHPROD\Sheets\CTSS_PhE_Trunk0_RIVERSIDE_INTERCONNECT1.dwg – RIVERSIDE–8 layout ~ last saved by: rwegehaupt 08/31/2018 11:54am ~ printed 09/11/2018 06:56pm PSLTS: 1 LTS: 1 CAS: 1:1



RIVERSIDE DR BETWEEN STATION 52+00 AND 63+00

NOTES:

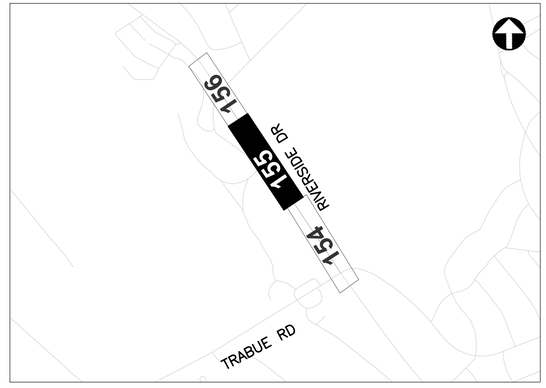
1. SEE SHEET 157 FOR QUANTITIES.
2. SEE SHEET 614 FOR COMMUNICATION DETAILS.

(#) EXISTING UTILITY CROSSING. SEE UTILITY CROSSING INFO SHEET 17.

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☒	SEWER
☒	WATER
☐	POWER
☐	LIGHTING



REFER TO SHEET 9 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

HORIZONTAL SCALE IN FEET
0 40 80

CIP: 540007-100012
PID NUMBER: 99733

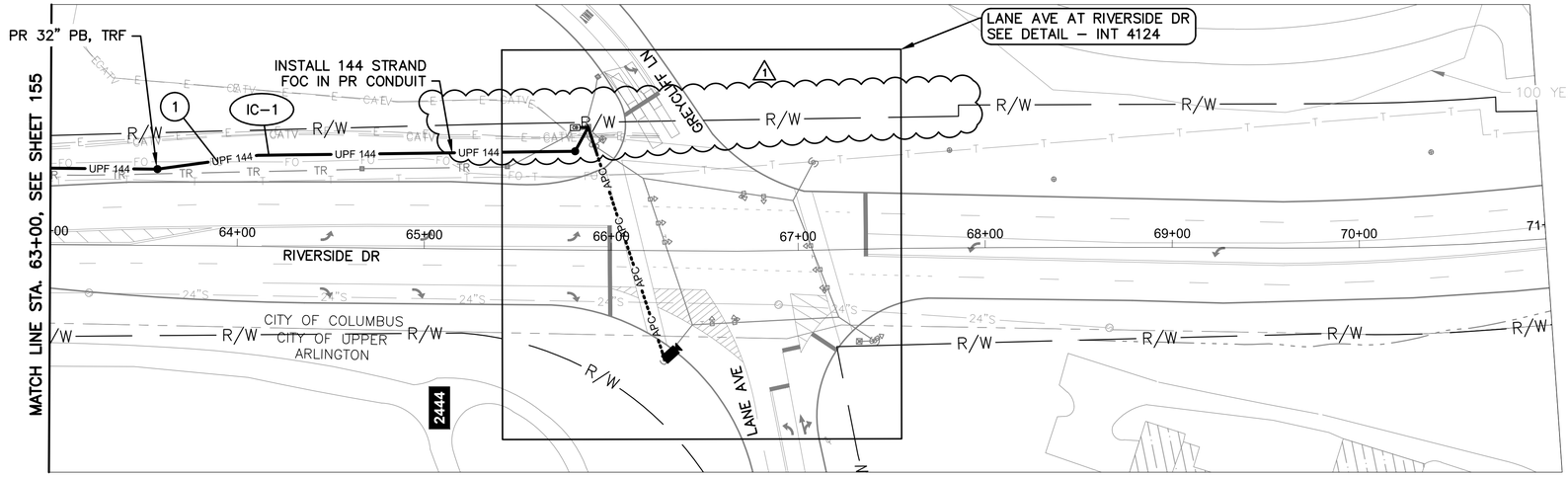
INTERCONNECT PLAN
RIVERSIDE DR BETWEEN STA. 52+00 AND 63+00

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

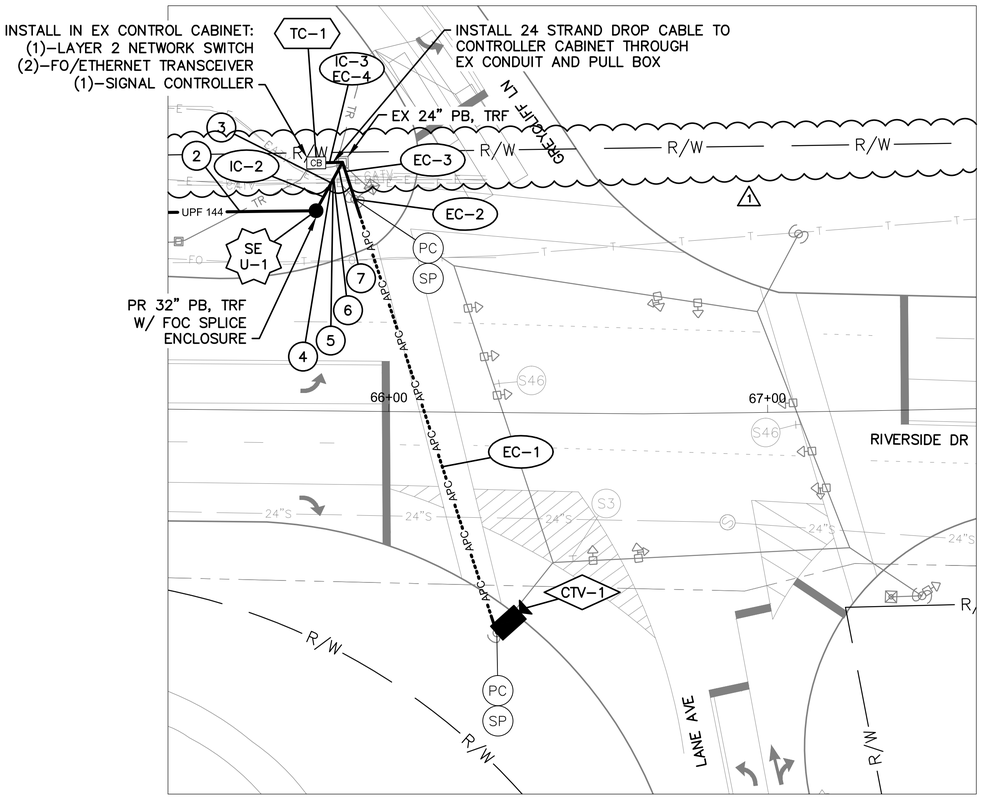
155
915

3378-E

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RIVERSIDE DR BETWEEN STATION 63+00 AND 71+00



DETAIL - INT 4124

0 20 40
HORIZONTAL SCALE IN FEET

NOTES:

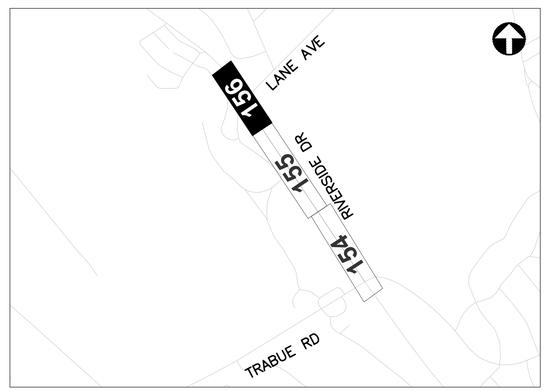
1. SEE SHEET 157 FOR QUANTITIES.
2. SEE SHEETS 614 & 667 FOR COMMUNICATION DETAILS.

(#) EXISTING UTILITY CROSSING. SEE UTILITY CROSSING INFO SHEET 325.

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CITY OF COLUMBUS UTILITY LEGEND

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☒	WATER
☐	POWER
☐	LIGHTING



REFER TO SHEET 9 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

1 REVISION 1.0
11–02–2018

3378-E

HORIZONTAL SCALE IN FEET 0 40 80

CIP: 540007–100012
PID NUMBER: 99733

INTERCONNECT PLAN
RIVERSIDE DR BETWEEN STA. 63+00 AND 71+00, INT 4124

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

156
915

J:\Jobs\63721 CTSS Phase E\TECHPROD\Sheets\CTSS_PhE_TrunkO_RIVERSIDE_INTERCONNECT.dwg – RIVERSIDE-10 layout ~ last saved by: jbeans 11/05/2018 04:21pm ~ printed 11/06/2018 12:11pm PSLTS: 1 LTS: 1 CAS: 1:1

ESTIMATED QUANTITIES

	REFERENCE NO.	LOCATION	STATION		202	625	625	625	632	632	632	632	632	632	632	632	632	633	633	633			
					EXISTING CONDUIT CLEANED, AS PER PLAN	CONDUIT, CONCRETE ENCASED, 2-3", 725.05, AS PER PLAN	PULL BOX, CONCRETE 32", AS PER PLAN	TRENCH, 36" DEEP, AS PER PLAN	CONDUIT RISER, 2", 725.04, AS PER PLAN	DOWN GUY	INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 144 STRAND	INTERCONNECT CABLE, MISC.: FIBER OPTIC DROP CABLE, 24 STRAND	INTERCONNECT CABLE, MISC.: FIBER OPTIC FUSION SPLICE	INTERCONNECT CABLE, MISC.: TERMINATION PANEL, 24 FIBER	INTERCONNECT, MISC.: SPLICE ENCLOSURE, CLAMSHELL, 288 SPLICE	MESSENGER WIRE, 7 STRAND, 1/4" DIAMETER WITH ACCESSORIES, AS PER PLAN	SIGNALIZATION, MISC.: CCTV COMPOSITE CABLE	SIGNALIZATION, MISC.: CCTV IP-CAMERA SYSTEM	CONTROLLER ITEM, MISC.: FIBER OPTIC ETHERNET TRANSCEIVER, SHORT RANGE	CONTROLLER ITEM, MISC.: LAYER 2 ETHERNET SWITCH	CONTROLLER UNIT, TYPE TS2/A2, AS PER PLAN			
			FROM	TO	FT	FT	EACH	FT	EACH	EACH	FT	FT	EACH	EACH	EACH	FT	FT	EACH	EACH	EACH	EACH			
RIVERSIDE DR. BETWEEN STA. 44+00 AND 52+00																							
154	IC-1	RIVERSIDE DR	45+31, 41' LT	52+00, 40' LT							679					679							
154	IC-2	RIVERSIDE DR	45+39, 41' LT								150												
154	IC-3	RIVERSIDE DR	50+41, 39' LT								150												
RIVERSIDE DR. BETWEEN STA. 52+00 AND 63+00																							
155	IC-1	RIVERSIDE DR	52+00, 40' LT	57+46, 29' LT							555					555							
155	IC-2	RIVERSIDE DR	57+51, 34' LT						1	1	35												
155	IC-3	RIVERSIDE DR	57+46, 29' LT	63+00, 40' LT		555	1	555			555												
155	IC-4	RIVERSIDE DR	57+53, 25' LT				1				100												
RIVERSIDE DR. BETWEEN STA. 63+00 AND 71+00, INT 4124																							
156	IC-1	RIVERSIDE DR	63+00, 40' LT	65+80, 53' LT		281	1	281			281												
156	SE U-1	RIVERSIDE DR	65+80, 53' LT				1				75	125	12		1								
156	IC-2	RIVERSIDE DR	65+80, 53' LT	65+87, 66' LT		15		15				15											
156	TC-1	RIVERSIDE DR	65+80, 65' LT									10		1			20		2	1	1		
156	IC-3	RIVERSIDE DR	65+80, 65' LT	65+87, 66' LT	7							7											
156	EC-4	RIVERSIDE DR	65+80, 65' LT	65+87, 66' LT													14						
156	EC-3	RIVERSIDE DR	65+87, 66' LT	65+90, 56' LT	10												20						
156	EC-2	RIVERSIDE DR	65+90, 56' LT														70						
156	EC-1	RIVERSIDE DR	65+90, 56' RT	66+29, 58' RT												122	244						
156	CTV-1	RIVERSIDE DR	66+29, 58' RT															1					
SHEET TOTAL					17	851	4	851	1	1	2,580	157	12	1	1	1,356	368	1	2	1	1	-	-	-

AERIAL SAG: 1.5% AERIAL SAG IS INCLUDED IN THE QUANTITIES FOR ANY AERIAL FIBER OR CABLE ITEMS.

3378-E

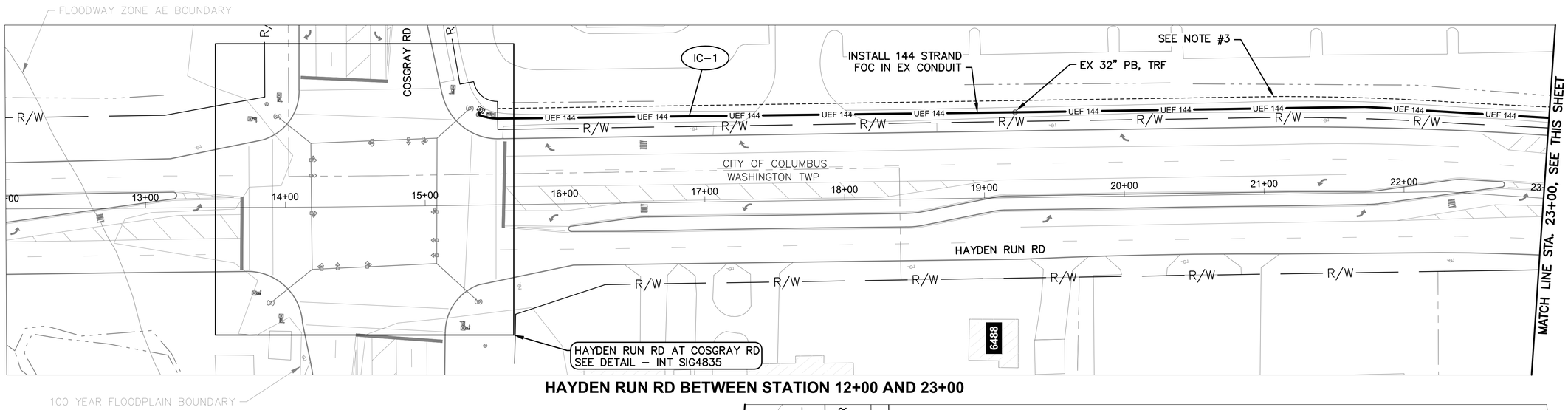
CIP: 540007-100012
PID NUMBER: 99733

RIVERSIDE DR BETWEEN STA. 44+00 & 71+00
INT 4124

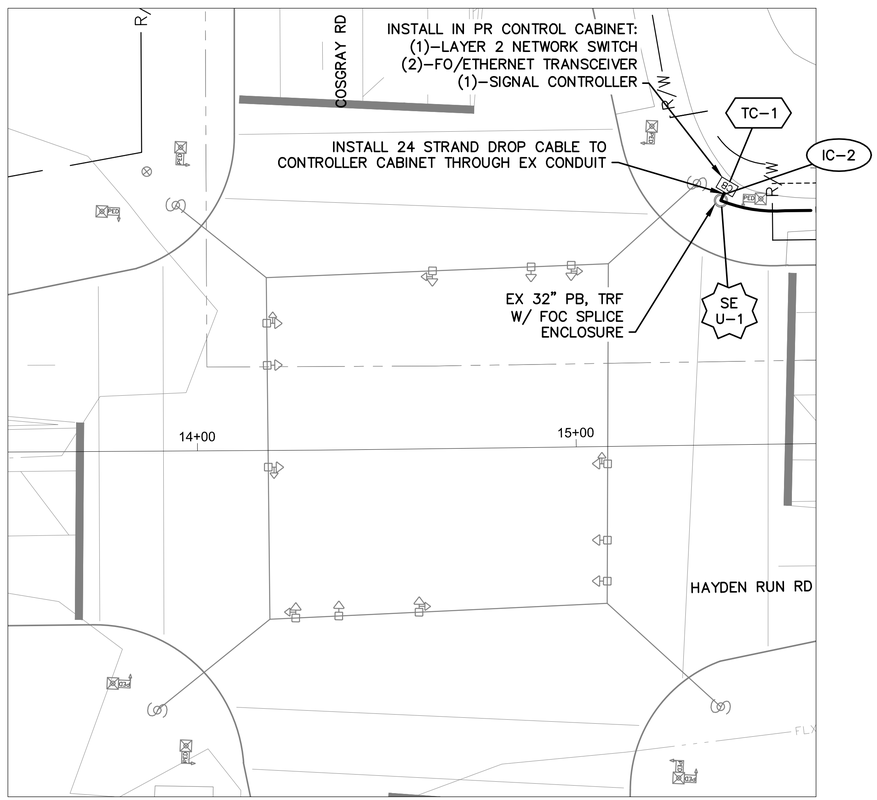
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

157
915

J:\Jobs\63721 CTSS Phase E\TECHPROD\Sheets\CTSS_PhE_Trunk0_RIVERSIDE_IC_QUANTITIES.dwg – RIVERSIDE DR-Q2 layout ~ last saved by: gburch 09/11/2018 08:33am ~ printed 09/18/2018 09:43am PSLTS: 1 LTS: 1 CAS: 1:1

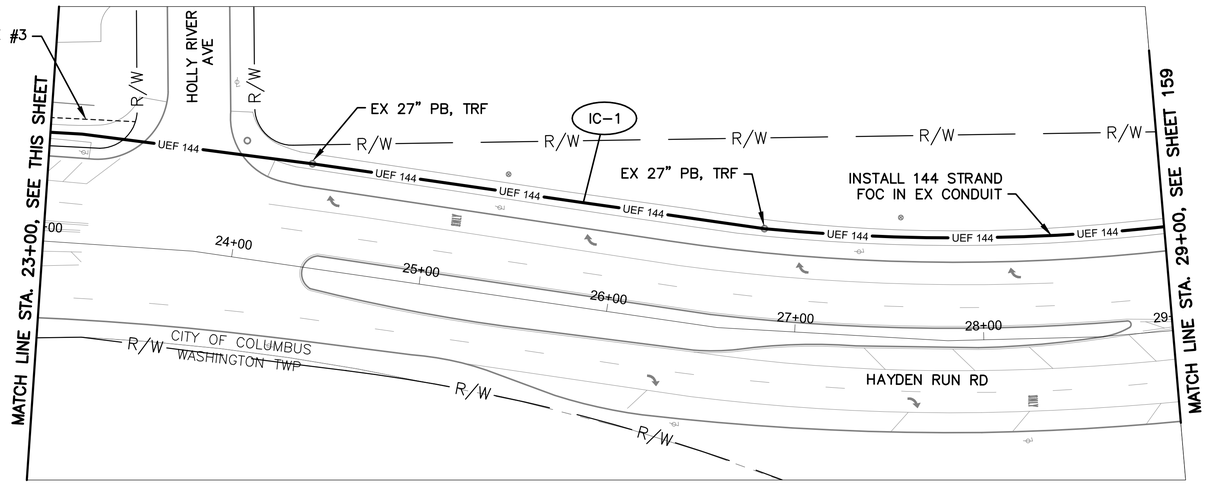


HAYDEN RUN RD BETWEEN STATION 12+00 AND 23+00



DETAIL - INT SIG4835

0 20 40
HORIZONTAL
SCALE IN FEET



HAYDEN RUN RD BETWEEN STATION 23+00 AND 29+00

NOTES:

1. SEE SHEET 164 FOR QUANTITIES.
2. SEE SHEET 613 & 671 FOR COMMUNICATION DETAILS.
3. EXISTING UTILITY EASEMENT PER INSTRUMENT #200606020106450, PARCEL 15-PU2.

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CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 7 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

0 40 80
HORIZONTAL
SCALE IN FEET

CIP: 540007-100012
PID NUMBER: 99733

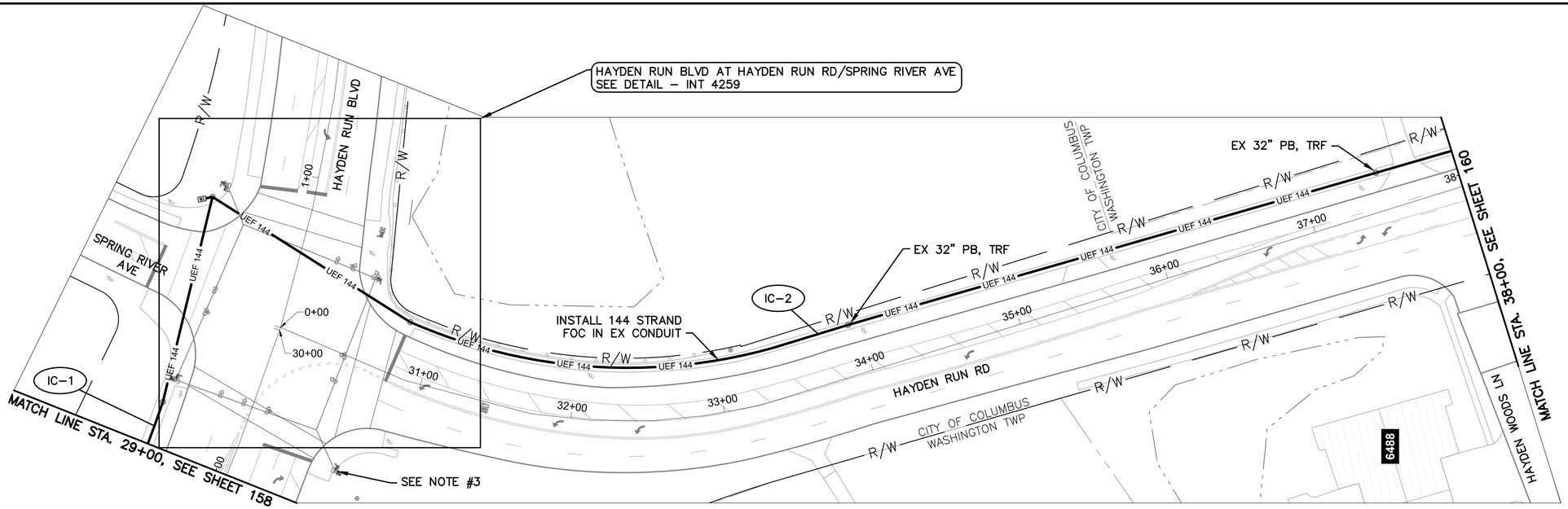
INTERCONNECT PLAN
HAYDEN RUN RD BETWEEN STA. 12+00 AND 29+00, INT SIG4835

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E - FINAL SUBMITTAL

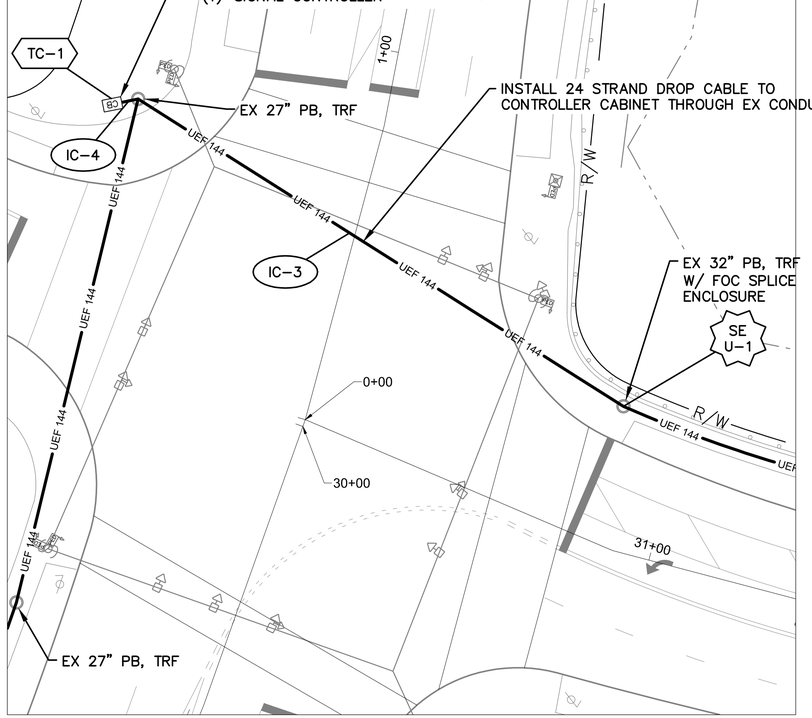
158
915

3378-E

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HAYDEN RUN RD BETWEEN STATION 29+00 AND 38+00



DETAIL - INT 4259

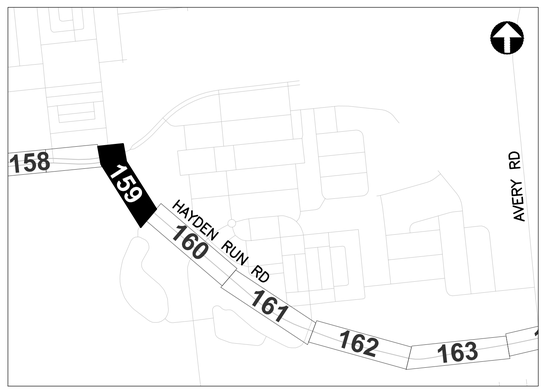
0 20 40
HORIZONTAL
SCALE IN FEET

NOTES:

1. SEE SHEET 164 FOR QUANTITIES.
2. SEE SHEETS 613 & 672 FOR COMMUNICATION DETAILS.
3. INTERSECTION IS SHOWN IN FUTURE CONFIGURATION WITH STRAIN POLES.

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CITY OF COLUMBUS UTILITY LEGEND
- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 7 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

0 40 80
HORIZONTAL
SCALE IN FEET

CIP: 540007–100012
PID NUMBER: 99733

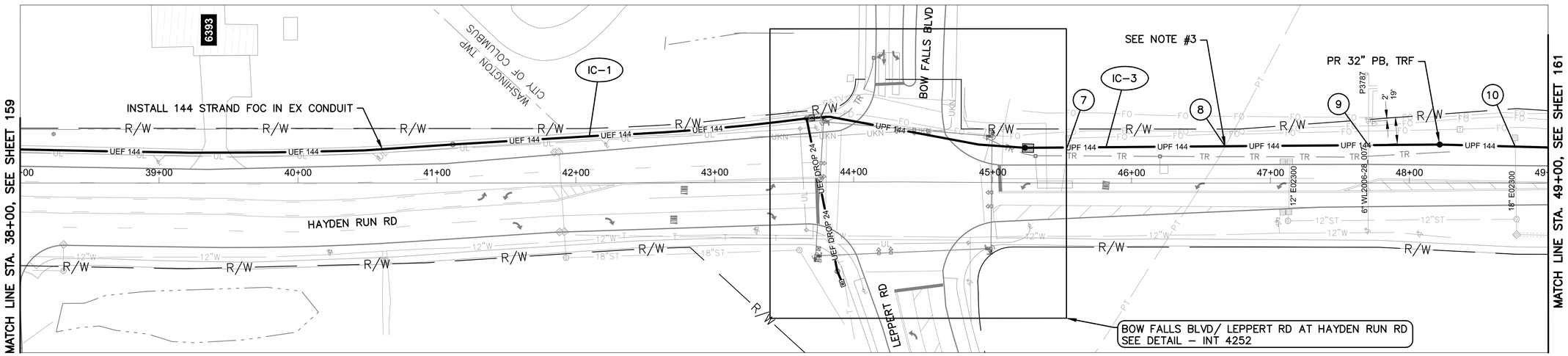
INTERCONNECT PLAN
HAYDEN RUN RD BETWEEN STA. 29+00 AND 38+00, INT 4259

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

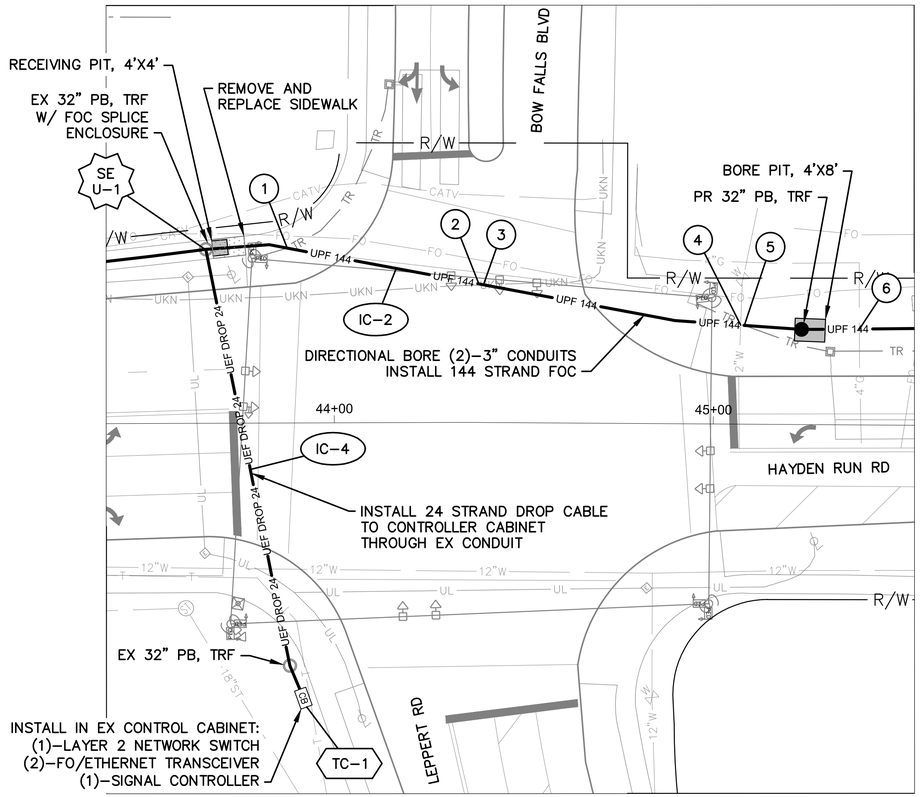
159
915

3378-E

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HAYDEN RUN RD BETWEEN STATION 38+00 AND 49+00



DETAIL - INT 4252

0 20 40
HORIZONTAL
SCALE IN FEET

NOTES:

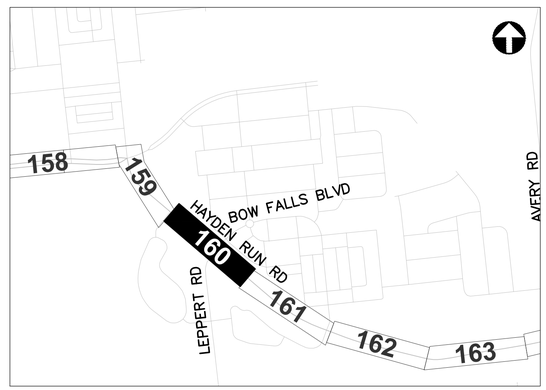
1. SEE SHEET 164 FOR QUANTITIES.
2. SEE SHEETS 613 & 673 FOR COMMUNICATION DETAILS.
3. A MARATHON PETROLEUM REPRESENTATIVE MUST BE ON-SITE WHILE EXCAVATING ACROSS THE 6" PETROLEUM PIPELINE (UTILITY CROSSING #8).

(#) EXISTING UTILITY CROSSING. SEE UTILITY CROSSING INFO SHEET 17.

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CITY OF COLUMBUS UTILITY LEGEND

☒	SEWER
☒	WATER
☐	POWER
☒	LIGHTING



REFER TO SHEET 7 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

HORIZONTAL SCALE IN FEET
0 40 80

CIP: 540007-100012
PID NUMBER: 99733

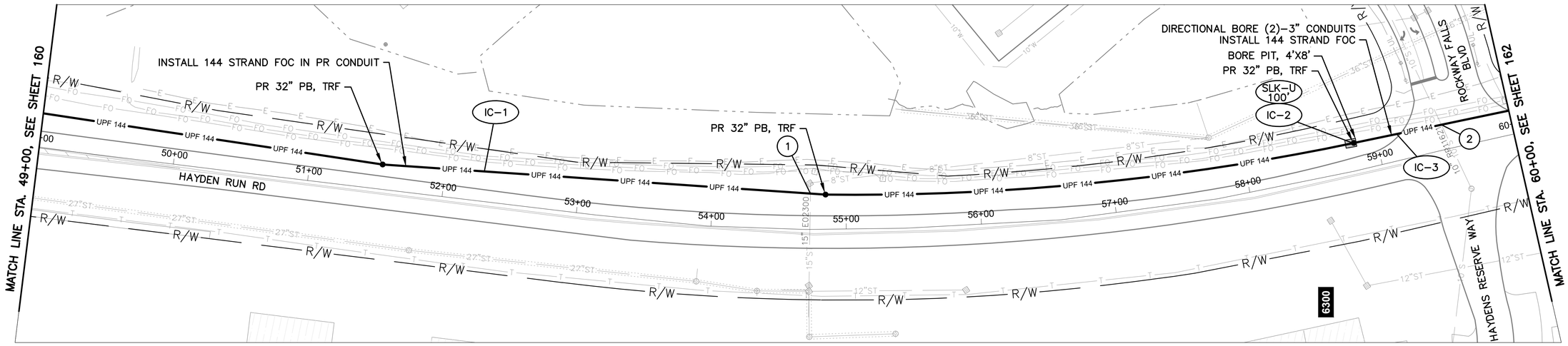
INTERCONNECT PLAN
HAYDEN RUN RD BETWEEN STA. 38+00 AND 49+00, INT 4252

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

160
915

3378-E

J:\Jobs\63721 CTSS Phase E\TECHPROD\Sheets\CTSS_PhE_Trunk0_HAYDEN_RUN_INTERCONNECT.dwg – HAYDEN_RUN-3 layout ~ last saved by: gburch 09/13/2018 03:36pm ~ printed 09/13/2018 05:01pm PSLTS: 1 LTS: 1 CAS: 1:1



HAYDEN RUN RD BETWEEN STATION 49+00 AND 60+00

NOTES:

1. SEE SHEET 164 FOR QUANTITIES.
2. SEE SHEET 613 FOR COMMUNICATION DETAILS.

(#) EXISTING UTILITY CROSSING. SEE UTILITY CROSSING INFO SHEET 17.

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CITY OF COLUMBUS UTILITY LEGEND

- ☒ SEWER
- ☒ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 7 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

3378-E

HORIZONTAL SCALE IN FEET
0 40 80

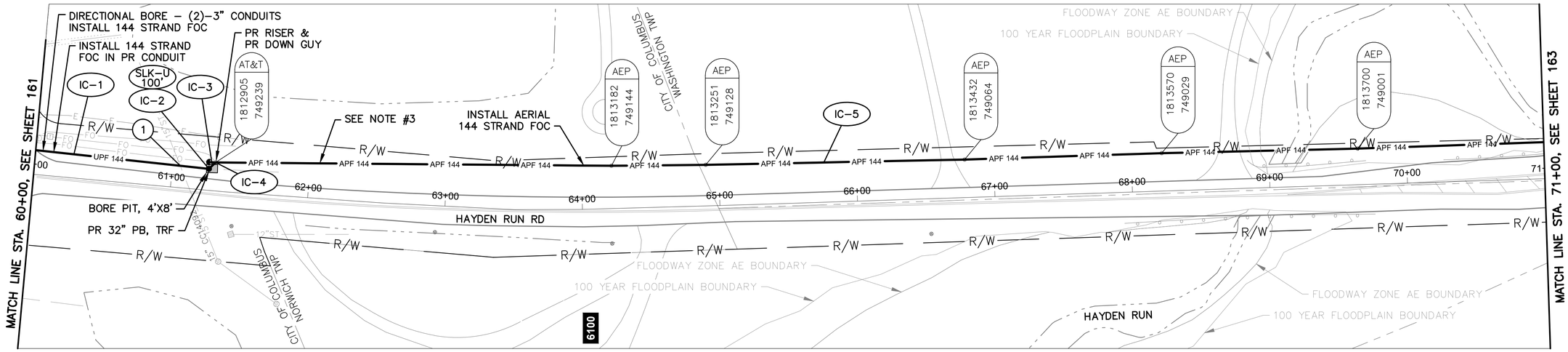
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PID NUMBER: 99733

INTERCONNECT PLAN
HAYDEN RUN RD BETWEEN STA. 49+00 AND 60+00

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E - FINAL SUBMITTAL

161
915

J:\Jobs\63721 ctss phase e\TECHPROD\Sheets\CTSS_PhE_Trunk0_HAYDEN_RUN_INTERCONNECT.dwg - HAYDEN_RUN-4 layout - last saved by rwegehoupt 09/06/2018 02:37pm ~ printed 09/11/2018 07:12pm PSLTS: 1 LTS: 1 CAS: 1:1



HAYDEN RUN RD BETWEEN STATION 60+00 AND 71+00

NOTES:

1. SEE SHEET 164 FOR QUANTITIES.
2. SEE SHEET 613 FOR COMMUNICATION DETAILS.
3. INSTALL CABLE GUARD WHERE AERIAL OBSTRUCTIONS ARE PRESENT.

(#) EXISTING UTILITY CROSSING. SEE UTILITY CROSSING INFO SHEET 17.

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CITY OF COLUMBUS UTILITY LEGEND

☒	SEWER
☐	WATER
☐	POWER
☐	LIGHTING



REFER TO SHEET 7 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

HORIZONTAL SCALE IN FEET
0 40 80

CIP: 540007–100012
PID NUMBER: 99733

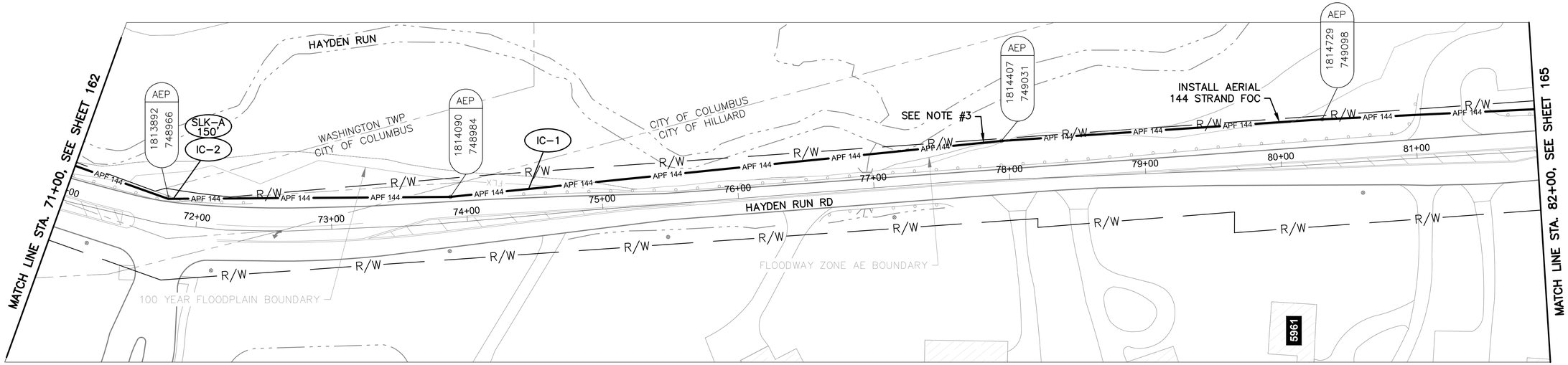
INTERCONNECT PLAN
HAYDEN RUN RD BETWEEN STA. 60+00 AND 71+00

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

3378-E

162
915

J:\Jobs\63721 ctss phase e\TECHPROD\Sheets\CTSS_PhE_Trunk0_HAYDEN_RUN_INTERCONNECT.dwg – HAYDEN_RUN–5 layout ~ last saved by: rwegehaupt 09/06/2018 02:37pm ~ printed 09/11/2018 07:13pm PSLTS: 1 LTS: 1 CAS: 1:1



HAYDEN RUN RD BETWEEN STATION 71+00 AND 82+00

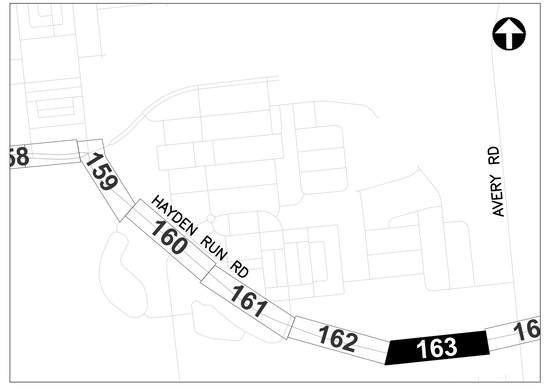
NOTES:

1. SEE SHEET 164 FOR QUANTITIES.
2. SEE SHEET 613 FOR COMMUNICATION DETAILS.
3. INSTALL CABLE GUARD WHERE AERIAL OBSTRUCTIONS ARE PRESENT.

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CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 7 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

HORIZONTAL SCALE IN FEET
0
40
80

CIP: 540007-100012
PID NUMBER: 99733

INTERCONNECT PLAN
HAYDEN RUN RD BETWEEN STA. 71+00 AND 82+00

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

163
915

3378-E

J:\Jobs\63721 ctss phase e\TECHPROD\Sheets\CTSS_PhE_Trunk0_HAYDEN_RUN_INTERCONNECT.dwg – HAYDEN_RUN-6 layout ~ last saved by: rwegehaupt 09/06/2018 02:37pm ~ printed 09/11/2018 07:15pm PSLTS: 1 LTS: 1 CAS: 1:1

ESTIMATED QUANTITIES

SHEET NO.	REFERENCE NO.	LOCATION	STATION		202	202	608	625	625	625	625	632	632	632	632	632	632	632	633	633	633		
					EXISTING CONDUIT CLEANED, AS PER PLAN	WALK REMOVED	8" CONCRETE WALK	CONDUIT, CONCRETE ENCASED, 2-3", 725.05, AS PER PLAN	CONDUIT, JACKED OR DRILLED, 3", AS PER PLAN	PULL BOX, CONCRETE 32", AS PER PLAN	TRENCH, 36" DEEP, AS PER PLAN	CONDUIT RISER, 2", 725.04, AS PER PLAN	DOWN GUY	INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 144 STRAND	INTERCONNECT CABLE, MISC.: FIBER OPTIC DROP CABLE, 24 STRAND	INTERCONNECT CABLE, MISC.: FIBER OPTIC FUSION SPLICE	INTERCONNECT CABLE, MISC.: TERMINATION PANEL, 24 FIBER	INTERCONNECT, MISC.: SPLICE ENCLOSURE, CLAMSHELL, 288 SPLICE	MESSENGER WIRE, 7 STRAND, 1/4" DIAMETER WITH ACCESSORIES, AS PER PLAN	CONTROLLER ITEM, MISC.: FIBER OPTIC ETHERNET TRANSCEIVER, SHORT RANGE	CONTROLLER ITEM, MISC.: LAYER 2 ETHERNET SWITCH	CONTROLLER UNIT, TYPE TS2/A2, AS PER PLAN		
			FROM	TO	FT	SF	SF	FT	FT	EACH	FT	EACH	EACH	FT	FT	EACH	EACH	EACH	FT	EACH	EACH	EACH	
HAYDEN RUN RD. BETWEEN STA. 12+00 AND 29+00, INT SIG4835																							
158	SE U-1	HAYDEN RUN RD	15+39, 64' LT											75	125	12		1					
158	IC-2	HAYDEN RUN RD	15+39, 64' LT	15+40, 68' LT	4										4								
158	IC-1	HAYDEN RUN RD	15+39, 64' LT	29+00, 55' LT	1,358									1,358									
158	TC-1	HAYDEN RUN RD	15+40, 68' LT												10		1			2	1	1	
HAYDEN RUN RD. BETWEEN STA. 29+00 AND 38+00, INT 4259																							
159	IC-1	HAYDEN RUN RD	29+00, 55' LT	30+78, 36' LT	166									166									
159	TC-1	HAYDEN RUN RD	0+67, 79' LT												10		1			2	1	1	
159	IC-4	HAYDEN RUN RD	0+67, 79' LT	0+70, 65' LT	7										7								
159	IC-3	HAYDEN RUN RD	0+70, 65' LT	30+78, 36' LT											152								
159	SE U-1	HAYDEN RUN RD	30+78, 36' LT											150	125	24		1					
159	IC-2	HAYDEN RUN RD	30+78, 36' LT	38+00, 24' LT	850									850									
HAYDEN RUN RD. BETWEEN STA. 38+00 AND 49+00, INT 4252																							
160	IC-1	HAYDEN RUN RD	38+00, 24' LT	43+66, 46' LT	567									567									
160	SE U-1	HAYDEN RUN RD	43+66, 46' LT											150	125	24		1					
160	IC-2	HAYDEN RUN RD	43+66, 46' LT	45+07, 24' LT		50	50		288					144									
160	IC-4	HAYDEN RUN RD	43+66, 46' RT	43+91, 73' RT	121										121								
160	TC-1	HAYDEN RUN RD	43+91, 73' RT												10		1			2	1	1	
160	IC-3	HAYDEN RUN RD	45+07, 24' LT	49+00, 39' LT				392		2	392			392									
HAYDEN RUN RD. BETWEEN STA. 49+00 AND 60+00																							
161	IC-1	HAYDEN RUN RD	49+00, 39' LT	58+82, 27' LT				974		2	974			974									
161	IC-2	HAYDEN RUN RD	58+82, 27' LT							1				100									
161	IC-3	HAYDEN RUN RD	58+82, 27' LT	60+00, 27' LT					234					117									
HAYDEN RUN RD. BETWEEN STA. 60+00 AND 71+00																							
162	IC-1	HAYDEN RUN RD	60+00, 27' LT	61+27, 27' LT					256					128									
162	IC-2	HAYDEN RUN RD	61+27, 27' LT							1				100									
162	IC-3	HAYDEN RUN RD	61+27, 27' LT	61+31, 21' LT				7			7			7									
162	IC-4	HAYDEN RUN RD	61+31, 21' LT									1	1	35									
162	IC-5	HAYDEN RUN RD	61+31, 21' LT	71+00, 26' LT										980					980				
HAYDEN RUN RD. BETWEEN STA. 71+00 AND 82+00																							
163	IC-1	HAYDEN RUN RD	71+00, 26' LT	82+00, 30' LT										1,108					1,108				
163	IC-2	HAYDEN RUN RD	71+81, 19' LT											150									
SHEET TOTAL					3,073	50	50	1,373	778	6	1,373	1	1	7,551	689	60	3	3	2,088	6	3	3	-	-

AERIAL SAG: 1.5% AERIAL SAG IS INCLUDED IN THE QUANTITIES FOR ANY AERIAL FIBER OR CABLE ITEMS.

3378-E

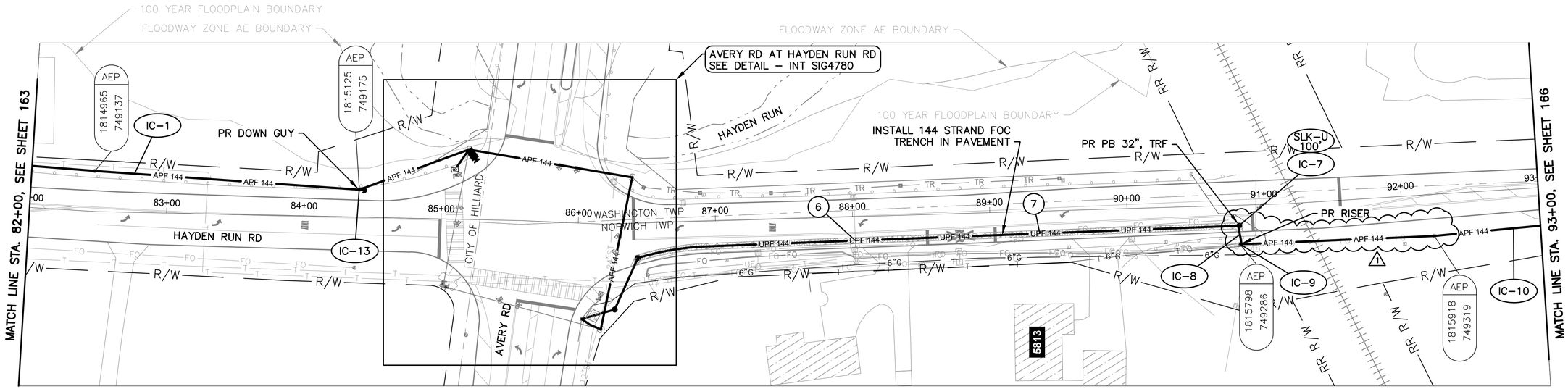
CIP: 540007–100012
PID NUMBER: 99733

HAYDEN RUN RD BETWEEN STA. 12+00 & 82+00
INTS SIG4835, 4259, 4252

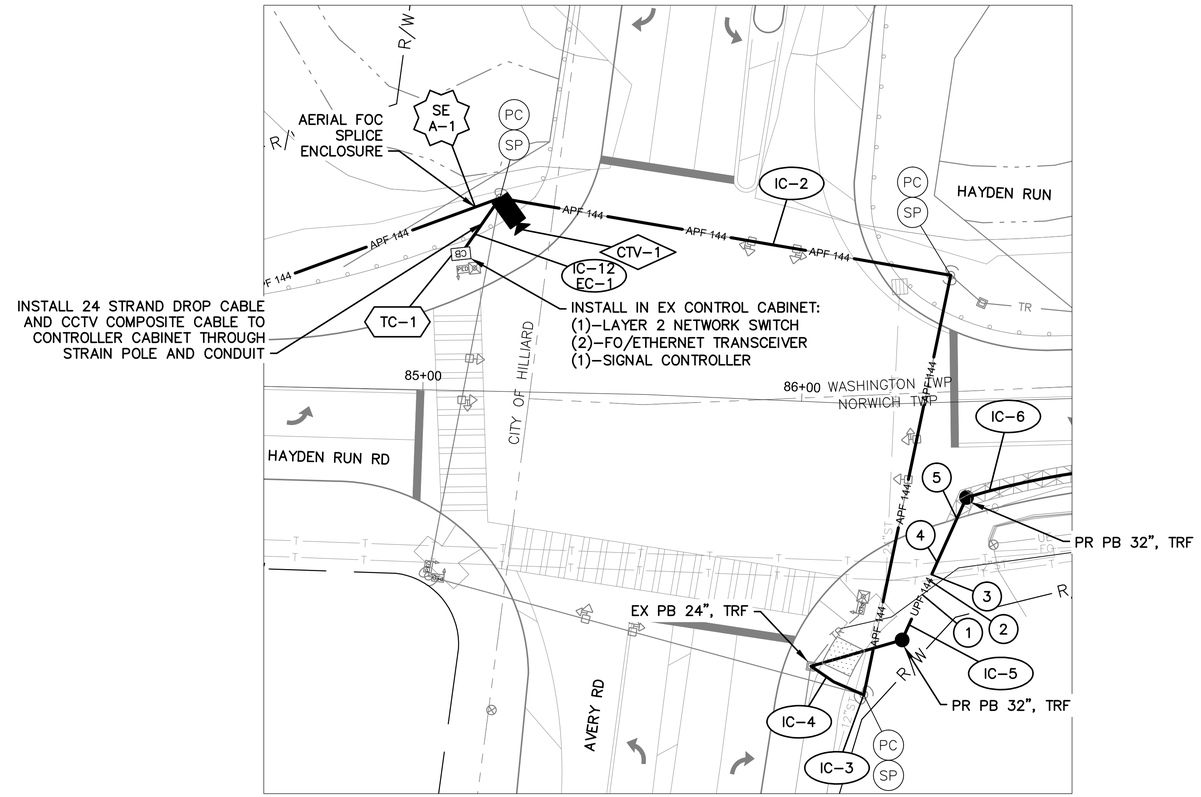
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

164
915

J:\Jobs\63721 CTSS Phase E\TECHPROD\Sheets\CTSS_PhE_Trunk0_HAYDEN_RUN_IC_QUANTITIES.dwg – HAYDEN RUN RD–Q1 layout – last saved by: gburch 09/11/2018 08:54am ~ printed 09/18/2018 09:44am PSLTS: 1 LTS: 1 CAS: 1:1



HAYDEN RUN RD BETWEEN STATION 82+00 AND 93+00



DETAIL - INT SIG4780

0 20 40
HORIZONTAL
SCALE IN FEET

NOTES:

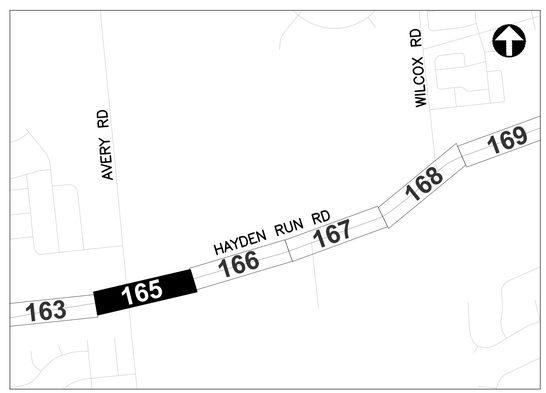
1. SEE SHEET 173 FOR QUANTITIES.
2. SEE SHEETS 613 & 674 FOR COMMUNICATION DETAILS.
3. SEE SHEET 24 FOR RAILROAD COORDINATION DETAILS.

(#) EXISTING UTILITY CROSSING.
SEE UTILITY CROSSING INFO
SHEET 17.

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CITY OF COLUMBUS UTILITY LEGEND

☒	SEWER
☐	WATER
☐	POWER
☐	LIGHTING



REFER TO SHEET 7 FOR
INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

0 40 80
HORIZONTAL
SCALE IN FEET

CIP: 540007–100012
PID NUMBER: 99733

INTERCONNECT PLAN
HAYDEN RUN RD BETWEEN STA. 82+00 AND 93+00, INT SIG4780

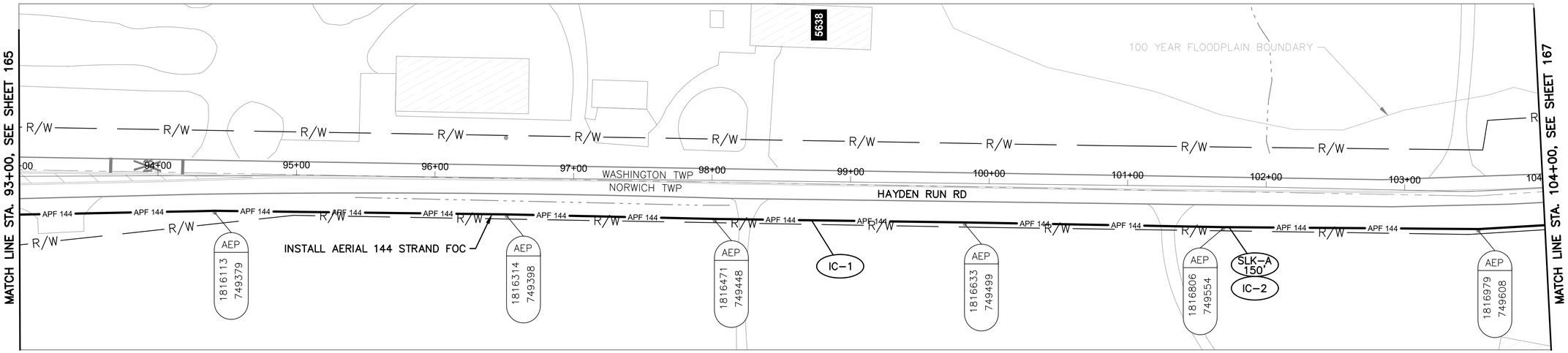
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

1 REVISION 1.0
11–02–2018

3378-E

165
915

J:\Jobs\63721 CTSS Phase E\TECHPROD\Sheets\CTSS_PhE_Trunk0_HAYDEN_RUN_INTERCONNECT.dwg ~ HAYDEN_RUN-7 layout ~ last saved by: jbeans 11/05/2018 04:38pm ~ printed 11/06/2018 12:13pm PSLTS: 1 LTS: 1 CAS: 1:1



HAYDEN RUN RD BETWEEN STATION 93+00 AND 104+00

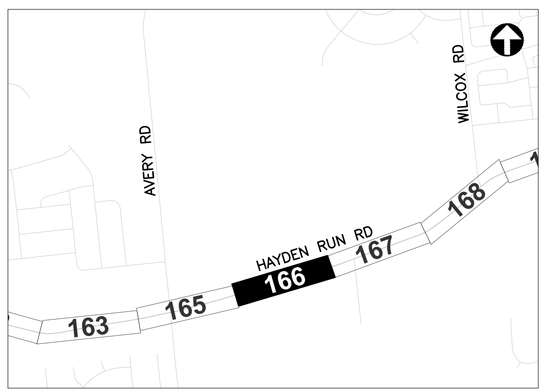
NOTES:

1. SEE SHEET 173 FOR QUANTITIES.
2. SEE SHEET 613 FOR COMMUNICATION DETAILS.

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CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 7 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

3378-E

HORIZONTAL SCALE IN FEET
0 40 80

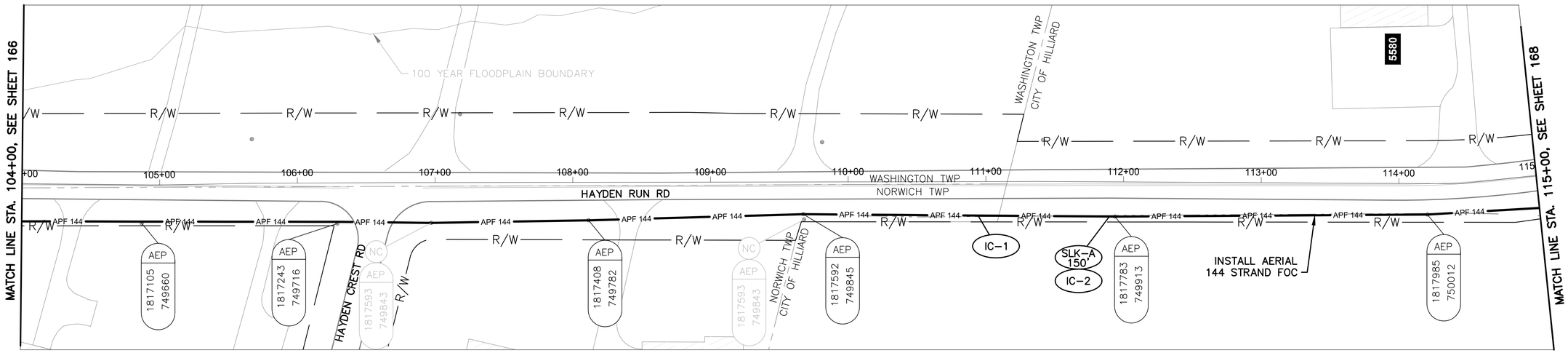
CIP: 540007-100012
PID NUMBER: 99733

INTERCONNECT PLAN
HAYDEN RUN RD BETWEEN STA. 93+00 AND 104+00

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

166
915

J:\Jobs\63721 ctss phase e\TECHPROD\Sheets\CTSS_PhE_Trunk0_HAYDEN_RUN_INTERCONNECT.dwg – HAYDEN_RUN–8 layout ~ last saved by: rwegehoupt 09/06/2018 02:37pm ~ printed 09/11/2018 07:20pm PSLTS: 1 LTS: 1 CAS: 1:1



HAYDEN RUN RD BETWEEN STATION 104+00 AND 115+00

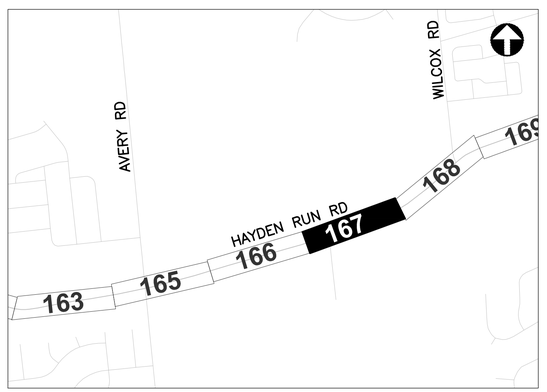
NOTES:

1. SEE SHEET 173 FOR QUANTITIES.
2. SEE SHEET 613 FOR COMMUNICATION DETAILS.

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CITY OF COLUMBUS
UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 7 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

3378-E

HORIZONTAL SCALE IN FEET
0 40 80

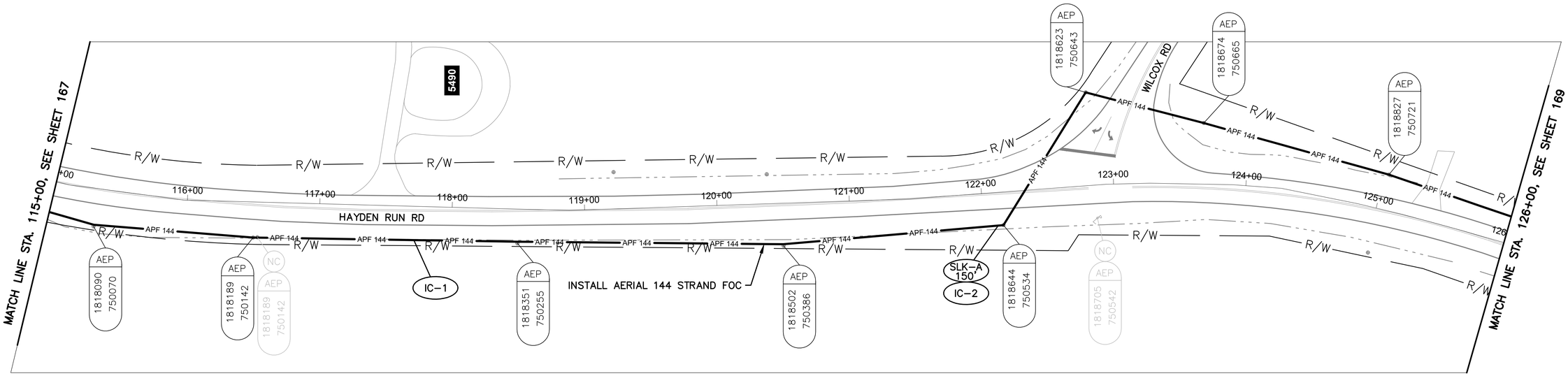
CIP: 540007-100012
PID NUMBER: 99733

INTERCONNECT PLAN
HAYDEN RUN RD BETWEEN STA. 104+00 AND 115+00

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

167
915

J:\Jobs\63721 ctss phase e\TECHPROD\Sheets\CTSS_PhE_Trunk0_HAYDEN_RUN_INTERCONNECT.dwg – HAYDEN_RUN-9 layout ~ last saved by: rwegehoupt 09/06/2018 02:37pm ~ printed 09/11/2018 07:21pm PSLTS: 1 LTS: 1 CAS: 1:1



HAYDEN RUN RD BETWEEN STATION 115+00 AND 126+00

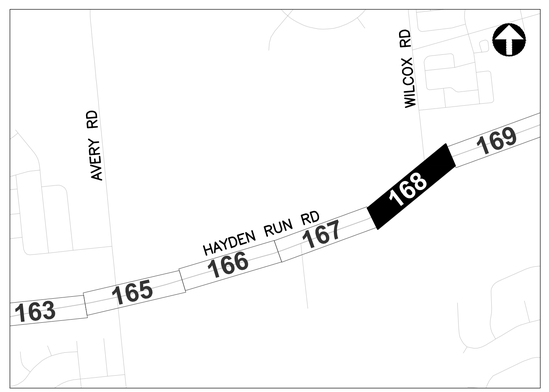
NOTES:

1. SEE SHEET 173 FOR QUANTITIES.
2. SEE SHEET 613 FOR COMMUNICATION DETAILS.

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CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 7 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

HORIZONTAL SCALE IN FEET
0 40 80

CIP: 540007-100012
PID NUMBER: 99733

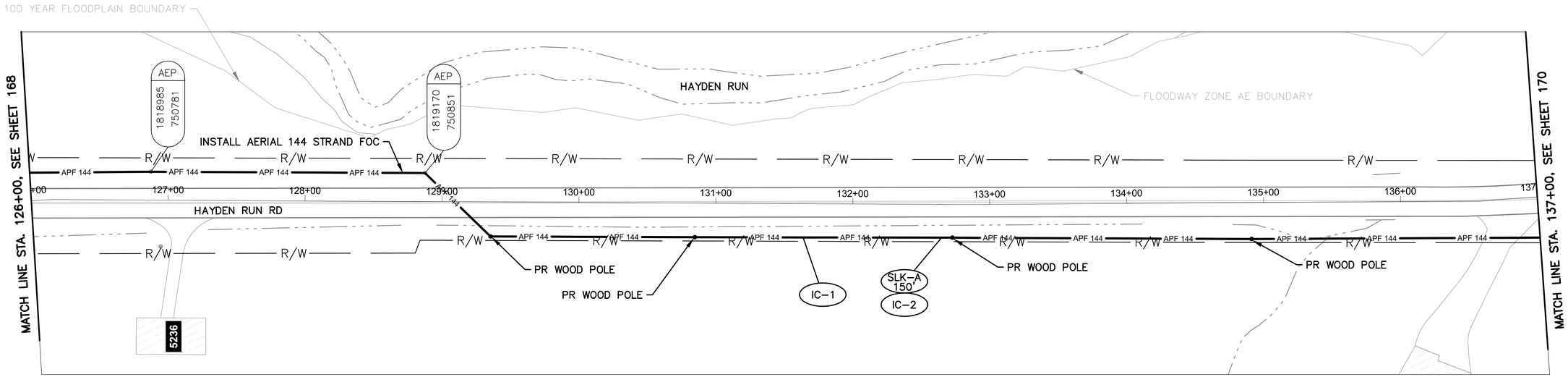
INTERCONNECT PLAN
HAYDEN RUN RD BETWEEN STA. 115+00 AND 126+00

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

3378-E

168
915

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HAYDEN RUN RD BETWEEN STATION 126+00 AND 137+00

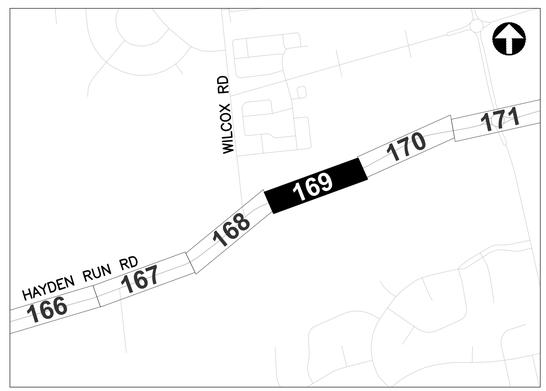
NOTES:

1. SEE SHEET 173 FOR QUANTITIES.
2. SEE SHEET 613 FOR COMMUNICATION DETAILS.

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CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 7 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

3378-E

HORIZONTAL SCALE IN FEET
0 40 80

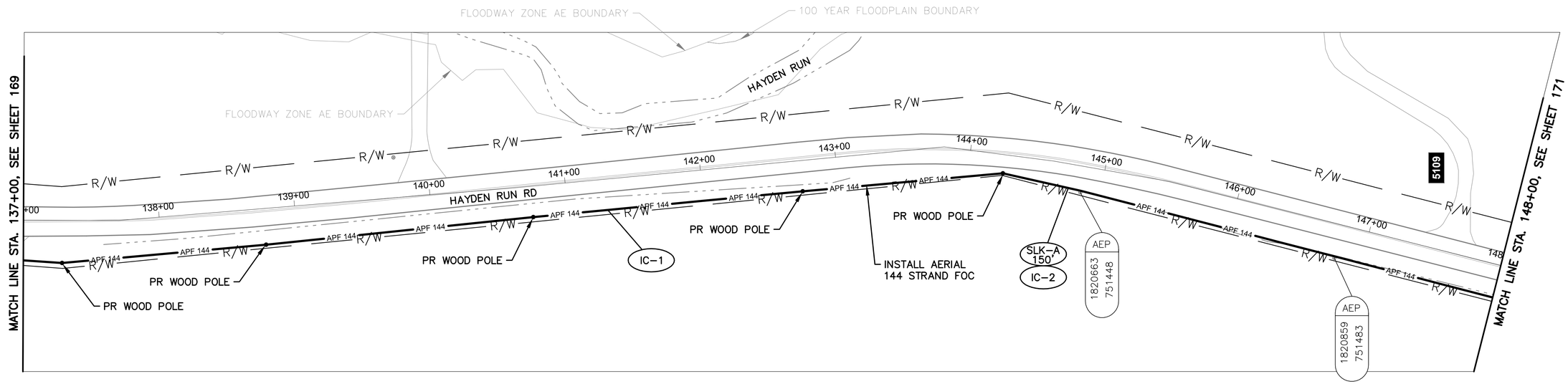
CIP: 540007-100012
PID NUMBER: 99733

INTERCONNECT PLAN
HAYDEN RUN RD BETWEEN STA. 126+00 AND 137+00

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

169
915

J:\Jobs\63721 ctss phase e\TECHPROD\Sheets\CTSS_PhE_TrunkO_HAYDEN_RUN_INTERCONNECT.dwg – HAYDEN_RUN-11 layout ~ last saved by: rwegehaupt 09/06/2018 02:37pm ~ printed 09/11/2018 07:25pm PSLTS: 1 LTS: 1 CAS: 1:1



HAYDEN RUN RD BETWEEN STATION 137+00 AND 148+00

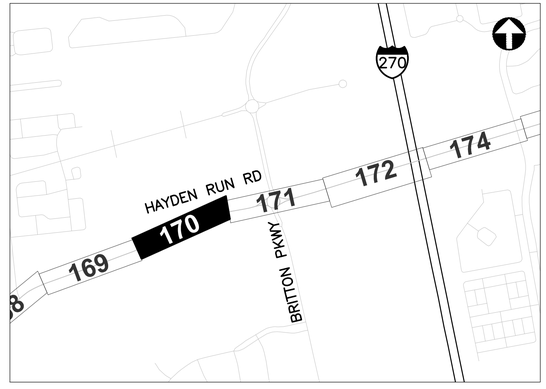
NOTES:

1. SEE SHEET 173 FOR QUANTITIES.
2. SEE SHEET 613 FOR COMMUNICATION DETAILS.

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www.oups.org

CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 7 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

HORIZONTAL SCALE IN FEET
0 40 80

CIP: 540007-100012
PID NUMBER: 99733

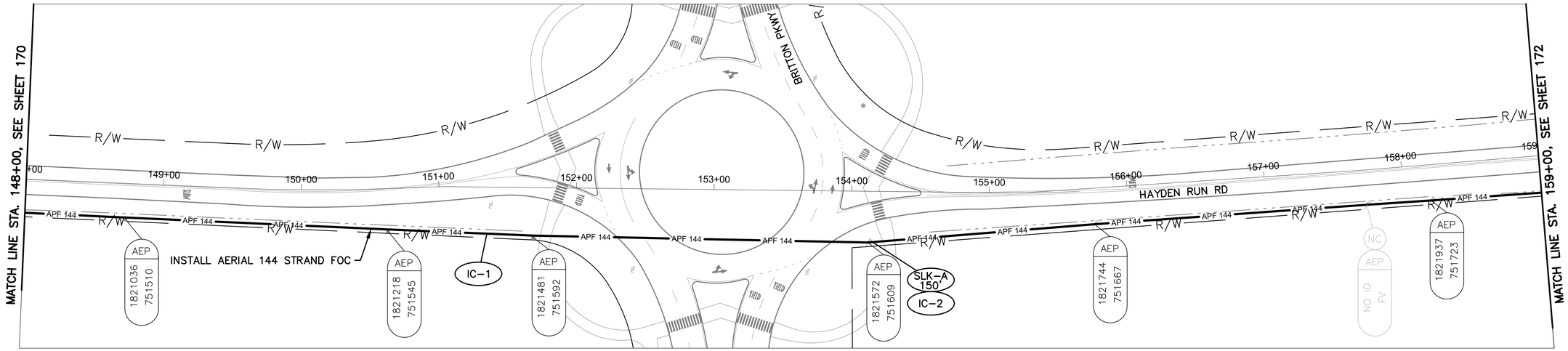
INTERCONNECT PLAN
HAYDEN RUN RD BETWEEN STA. 120+00 AND 131+00

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

170
915

3378-E

J:\Jobs\63721 ctss phase e\TECHPROD\Sheets\CTSS_PhE_Trunk0_HAYDEN_RUN_2_INTERCONNECT.dwg ~ HAYDEN_RUN-12 layout ~ last saved by: rwegehoupt 08/24/2018 07:54am ~ printed 09/11/2018 07:28pm PSLTS: 1 LTS: 1 CAS: 1:1



HAYDEN RUN RD BETWEEN STATION 148+00 AND 159+00

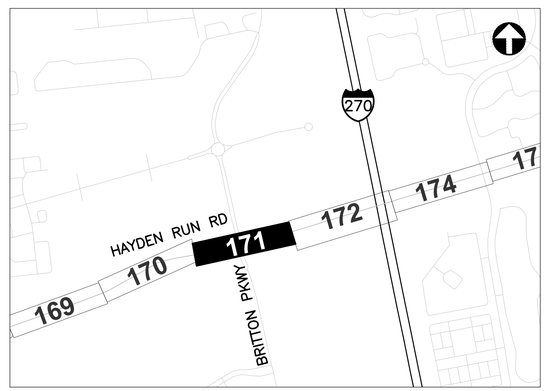
NOTES:

1. SEE SHEET 173 FOR QUANTITIES.
2. SEE SHEET 613 FOR COMMUNICATION DETAILS.

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CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 7 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

HORIZONTAL SCALE IN FEET
0 40 80

CIP: 540007-100012
PID NUMBER: 99733

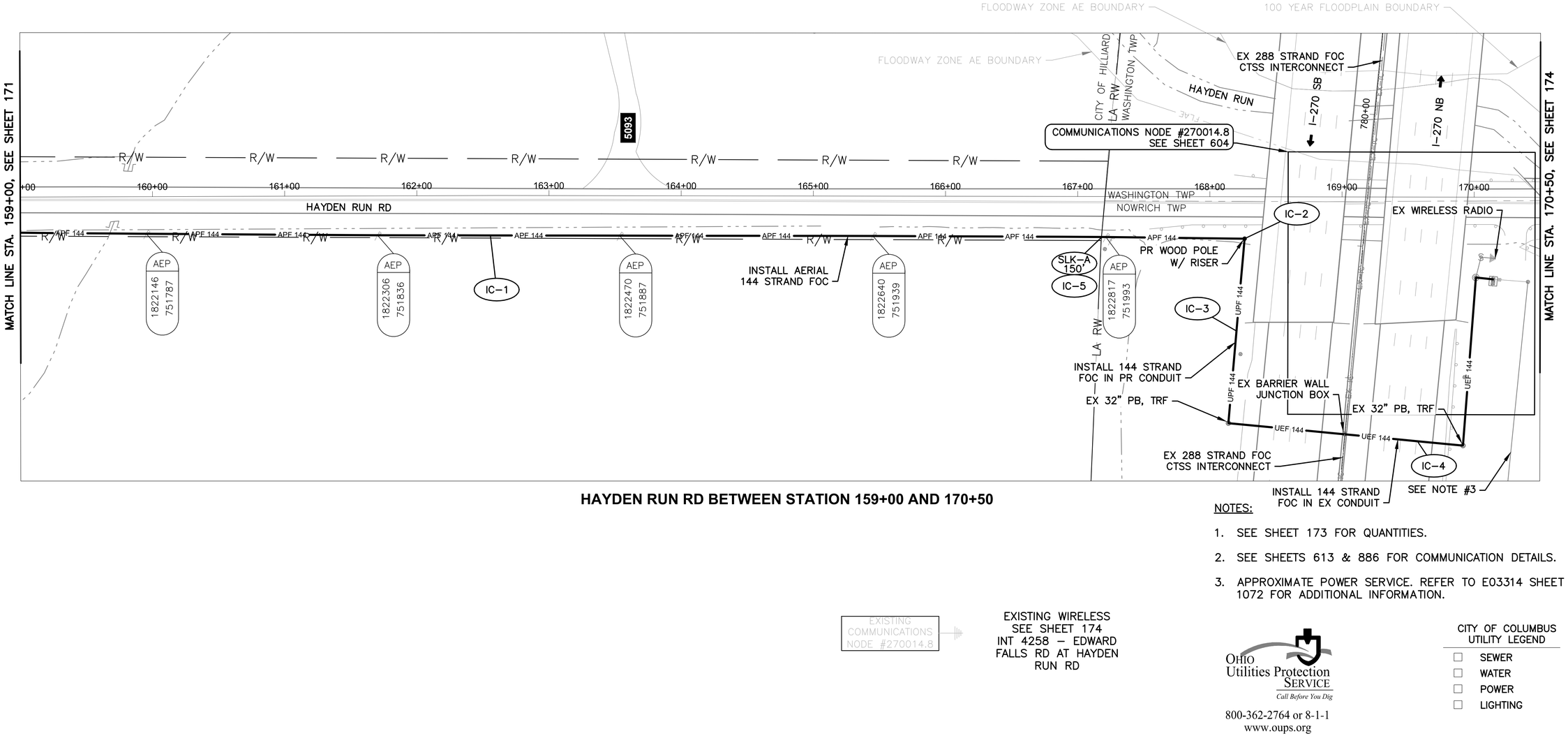
INTERCONNECT PLAN
HAYDEN RUN RD BETWEEN STA. 148+00 AND 159+00

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

171
915

3378-E

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HAYDEN RUN RD BETWEEN STATION 159+00 AND 170+50

NOTES:

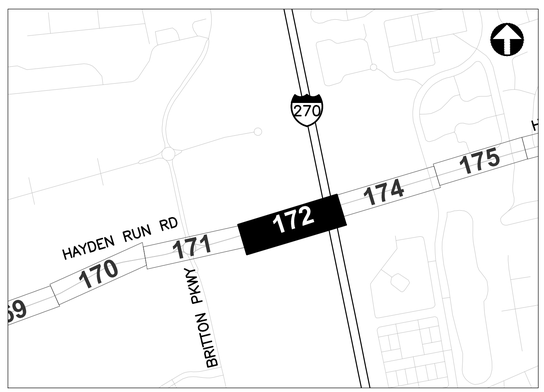
1. SEE SHEET 173 FOR QUANTITIES.
2. SEE SHEETS 613 & 886 FOR COMMUNICATION DETAILS.
3. APPROXIMATE POWER SERVICE. REFER TO E03314 SHEET 1072 FOR ADDITIONAL INFORMATION.

EXISTING COMMUNICATIONS NODE #270014.8 → EXISTING WIRELESS SEE SHEET 174 INT 4258 – EDWARD FALLS RD AT HAYDEN RUN RD

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CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 7 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

3378-E

HORIZONTAL SCALE IN FEET
0 40 80

CIP: 540007-100012
PID NUMBER: 99733

INTERCONNECT PLAN
HAYDEN RUN RD BETWEEN STA. 159+00 AND 170+50

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

172
915

J:\Jobs\163721 ctss phase e\TECHPROD\Sheets\CTSS_PhE_Trunk0_HAYDEN_RUN_2_INTERCONNECT.dwg – HAYDEN_RUN-14 layout – last saved by: rwegehoupt 08/24/2018 07:54am – printed 09/11/2018 07:31pm PSLTS: 1 LTS: 1 CAS: 1:1

ESTIMATED QUANTITIES

SHEET NO.	REFERENCE NO.	LOCATION	STATION FROM	STATION TO	202 EXISTING CONDUIT CLEANED, AS PER PLAN FT	202 WALK REMOVED SF	608 8" CONCRETE WALK SF	625 CONDUIT, CONCRETE ENCASED, 2-3", 725.05, AS PER PLAN FT	625 PULL BOX, CONCRETE 32", AS PER PLAN EACH	625 TRENCH, 36" DEEP, AS PER PLAN FT	625 TRENCH IN PAVED AREA, AS PER PLAN FT	632 CONDUIT RISER, 2", 725.04, AS PER PLAN EACH	632 DOWN GUY EACH	632 INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 144 STRAND FT	632 INTERCONNECT CABLE, MISC.: FIBER OPTIC DROP CABLE, 24 STRAND FT	632 INTERCONNECT CABLE, MISC.: FIBER OPTIC FUSION SPLICE EACH	632 INTERCONNECT CABLE, MISC.: TERMINATION PANEL, 24 FIBER EACH	632 INTERCONNECT, MISC.: SPLICE ENCLOSURE, CLAMSHELL, 288 SPLICE EACH	632 MESSENGER WIRE, 7 STRAND, 1/4" DIAMETER WITH ACCESSORIES, AS PER PLAN FT	632 SIGNALIZATION, MISC.: CCTV COMPOSITE CABLE FT	632 SIGNALIZATION, MISC.: CCTV IP-CAMERA SYSTEM EACH	632 WOOD POLE, CLASS 5, 35 FT EACH	633 CONTROLLER ITEM, MISC.: FIBER OPTIC ETHERNET TRANSCEIVER, SHORT RANGE EACH	633 CONTROLLER ITEM, MISC.: LAYER 2 ETHERNET SWITCH EACH	633 CONTROLLER UNIT, TYPE TS2/A2, AS PER PLAN EACH
HAYDEN RUN RD. BETWEEN STA. 82+00 AND 93+00, INT SIG4780																									
165	IC-1	HAYDEN RUN RD	82+00, 30' LT	85+19, 51' LT										329					329						
165	IC-13	HAYDEN RUN RD	84+40, 20' LT										1												
165	TC-1	HAYDEN RUN RD	85+09, 36' LT												10		1			20			2	1	1
165	IC-12	HAYDEN RUN RD	85+09, 36' LT	85+19, 51' LT	18										18										
165	EC-1	HAYDEN RUN RD	85+09, 36' LT	85+19, 51' LT																36					
165	SE A-1	HAYDEN RUN RD	85+19, 51' LT											150	160	24		1							
165	CTV-1	HAYDEN RUN RD	85+19, 51' LT																	35	1				
165	IC-2	HAYDEN RUN RD	85+19, 51' LT	86+19, 77' RT										238					238						
165	IC-4	HAYDEN RUN RD	86+05, 70' RT	86+19, 77' RT	16									16											
165	IC-5	HAYDEN RUN RD	86+05, 70' RT	86+40, 31' RT		64	64	60	1	60				60											
165	IC-3	HAYDEN RUN RD	86+19, 77' RT											35											
165	IC-6	HAYDEN RUN RD	86+40, 31' RT	90+81, 19' RT				450	1		450			450											
165	IC-7	HAYDEN RUN RD	90+81, 15' RT						1					100											
165	IC-8	HAYDEN RUN RD	90+81, 19' RT	90+81, 27' RT				9		9				9											
165	IC-9	HAYDEN RUN RD	90+81, 27' RT									1		35											
165	IC-10	HAYDEN RUN RD	90+81, 27' RT	93+00, 28' RT										223					223						
HAYDEN RUN RD. BETWEEN STA. 93+00 AND 104+00												1													
166	IC-1	HAYDEN RUN RD	93+00, 28' RT	104+00, 27' RT										1,118					1,118						
166	IC-2	HAYDEN RUN RD	101+73, 29' RT											150											
HAYDEN RUN RD. BETWEEN STA. 104+00 AND 115+00																									
167	IC-1	HAYDEN RUN RD	104+00, 27' RT	115+00, 24' RT										1,120					1,120						
167	IC-2	HAYDEN RUN RD	111+89, 25' RT											150											
HAYDEN RUN RD. BETWEEN STA. 115+00 AND 126+00																									
168	IC-1	HAYDEN RUN RD	115+00, 24' RT	126+00, 20' LT										1,194					1,194						
168	IC-2	HAYDEN RUN RD	122+10, 25' RT											150											
HAYDEN RUN RD. BETWEEN STA. 126+00 AND 137+00																									
169	IC-1	HAYDEN RUN RD	126+00, 20' LT	137+00, 29' RT										1,150					1,150			4			
169	IC-2	HAYDEN RUN RD	132+66, 31' RT											150											
HAYDEN RUN RD. BETWEEN STA. 137+00 AND 148+00																									
170	IC-1	HAYDEN RUN RD	137+00, 29' RT	148+00, 30' RT										1,110					1,110			5			
170	IC-2	HAYDEN RUN RD	144+76, 25' RT											150											
HAYDEN RUN RD. BETWEEN STA. 148+00 AND 159+00																									
171	IC-1	HAYDEN RUN RD	148+00, 30' RT	159+00, 27' RT										1,121					1,121						
171	IC-2	HAYDEN RUN RD	154+15, 37' RT											150											
HAYDEN RUN RD. BETWEEN STA. 159+00 AND 170+50																									
172	IC-1	HAYDEN RUN RD	159+00, 27' RT	168+26, 32' RT										944					944						
172	IC-5	HAYDEN RUN RD	167+18, 31' RT											150											
172	IC-2	HAYDEN RUN RD	168+26, 32' RT									1		35								1			
172	IC-3	HAYDEN RUN RD	168+26, 32' RT	168+14, 171' RT				140		140				140											
172	IC-4	HAYDEN RUN RD	168+14, 171' RT	170+01, 61' RT	307									307											
SHEET TOTAL					341	64	64	659	3	209	450	2	1	10,934	188	24	1	1	8,547	91	1	10	2	1	1

AERIAL SAG: 1.5% AERIAL SAG IS INCLUDED IN THE QUANTITIES FOR ANY AERIAL FIBER OR CABLE ITEMS.

1 REVISION 1.0 11-02-2018

3378-E

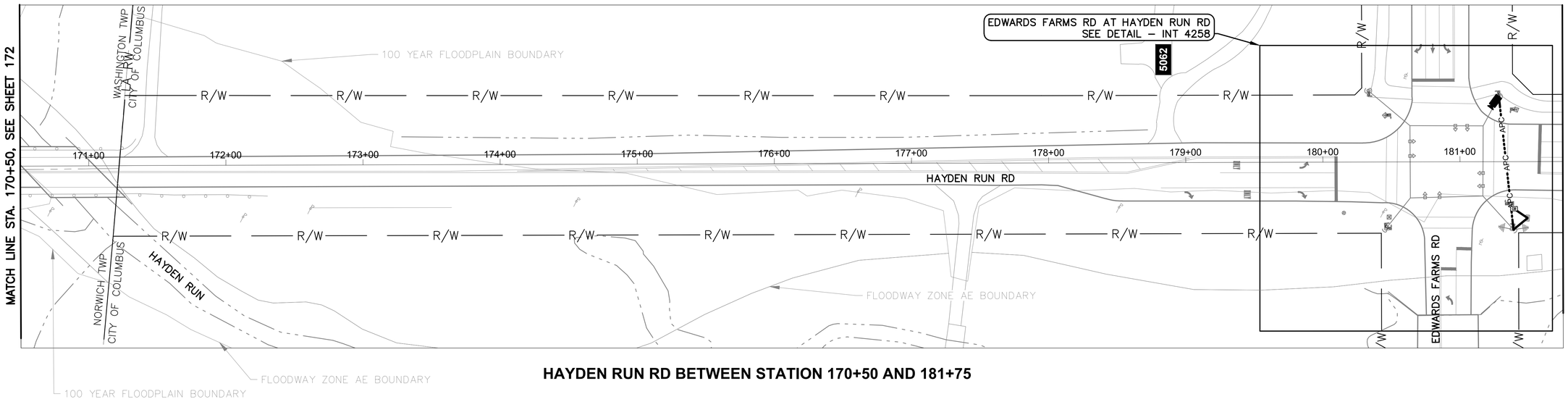
CIP: 540007-100012
PID NUMBER: 99733

HAYDEN RUN RD BETWEEN STA. 82+00 & 170+50
INT SIG4780

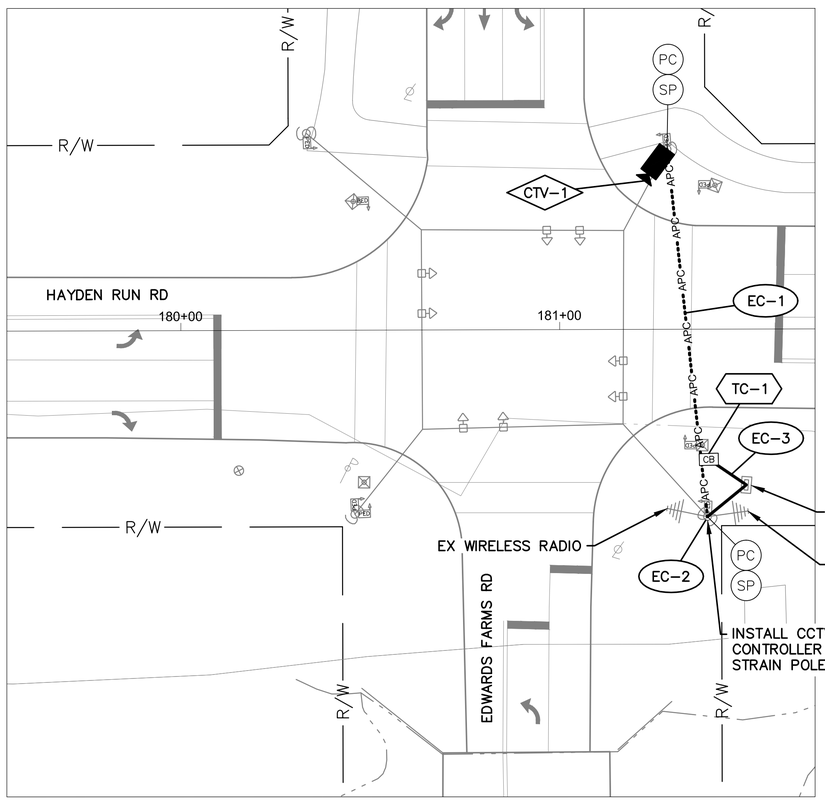
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E - FINAL SUBMITTAL

173
915

j:\Jobs\63721 CTSS Phase E\TECHPROD\Sheets\CTSS_PhE_Trunk0_HAYDEN_RUN_IC_QUANTITIES.dwg ~ HAYDEN RUN RD-02 layout ~ last saved by: jbeans 11/05/2018 02:42pm ~ printed 11/06/2018 12:14pm PSLTS: 1 LTS: 1 CAS: 1:1



HAYDEN RUN RD BETWEEN STATION 170+50 AND 181+75



DETAIL - INT 4258

0 20 40
HORIZONTAL SCALE IN FEET

EXISTING WIRELESS
SEE SHEET 172
HAYDEN RUN RD AT
I–270

INT 4258 WITH EXISTING SIGNAL CONTROLLER

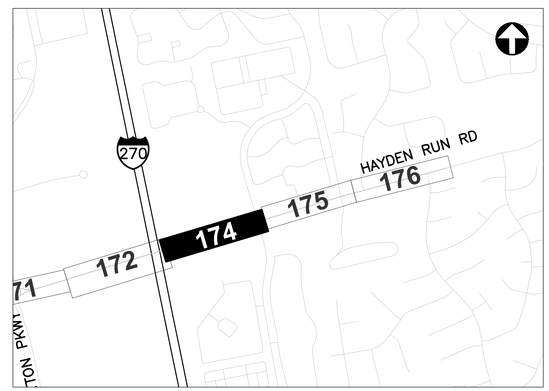
EXISTING WIRELESS
SEE SHEET 175
INT 4228 – CAMDEN
PLACE DR AT HAYDEN
RUN RD

NOTES:

1. NO WORK IS BEING PERFORMED ON THIS SHEET. FOR REFERENCE ONLY.
2. SEE SHEETS 613 & 675 FOR COMMUNICATION DETAILS.

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CITY OF COLUMBUS UTILITY LEGEND
- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 7 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

0 40 80
HORIZONTAL SCALE IN FEET

CIP: 540007–100012
PID NUMBER: 99733

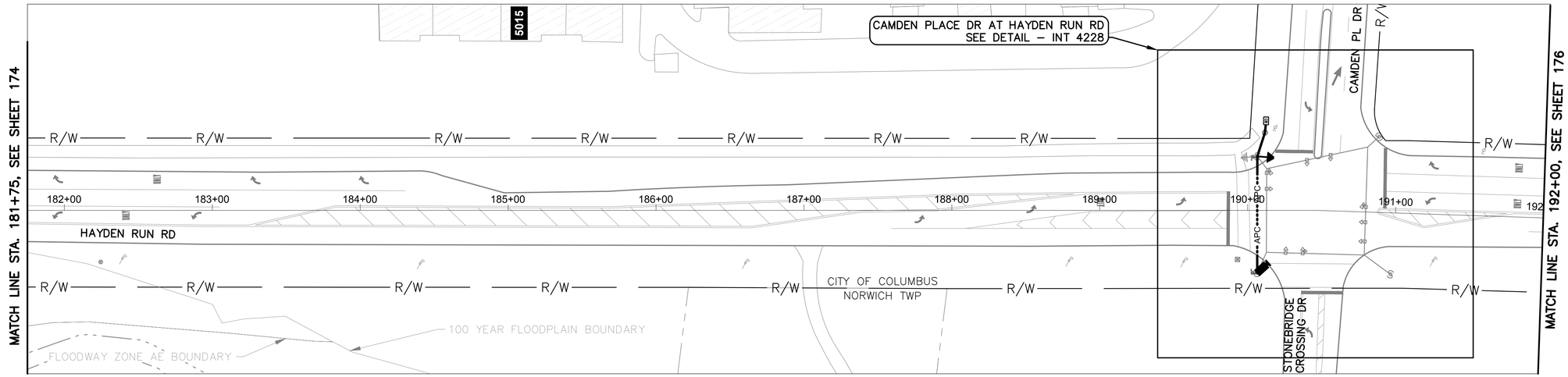
INTERCONNECT PLAN
HAYDEN RUN RD BETWEEN STA. 170+50 AND 181+75, INT 4258

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

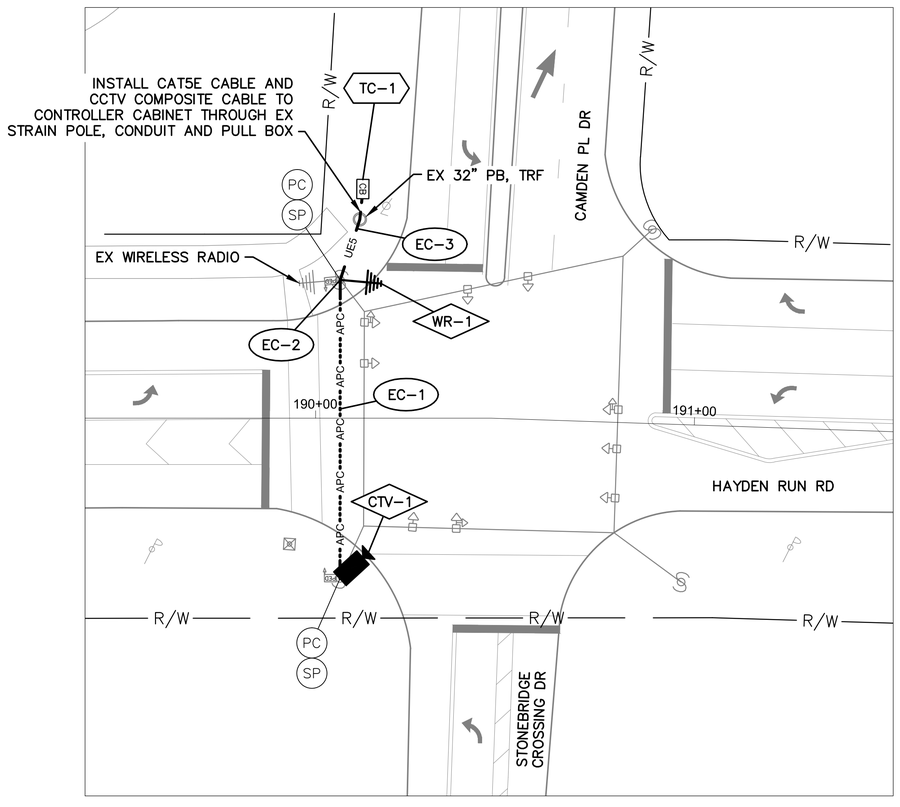
3378-E

174
915

J:\Jobs\63721 ctss phase e\TECHPROD\Sheets\CTSS_PhE_Trunk0_HAYDEN_RUN_2_INTERCONNECT.dwg – HAYDEN_RUN-15 layout ~ last saved by rwegehoupt 08/24/2018 07:54pm ~ printed 09/11/2018 07:34pm PSLTS: 1 LTS: 1 CAS: 1:1



HAYDEN RUN RD BETWEEN STATION 181+75 AND 192+00



DETAIL - INT 4228

0 20 40
HORIZONTAL
SCALE IN FEET

EXISTING WIRELESS
SEE SHEET 174
INT 4258 – EDWARD
FARMS RD AT HAYDEN
RUN RD

INT 4228 WITH
EXISTING SIGNAL
CONTROLLER

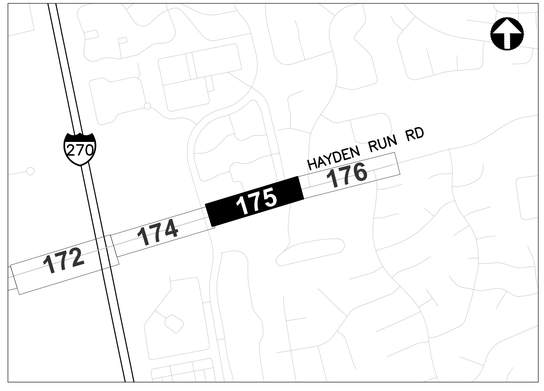
PROPOSED WIRELESS
SEE SHEET 176
INT 4249 – DEXTER
FALLS RD AT HAYDEN
RUN RD

NOTES:

1. SEE SHEET 177 FOR QUANTITIES.
2. SEE SHEETS 613 & 676 FOR COMMUNICATION DETAILS.

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- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 7 FOR
INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

0 40 80
HORIZONTAL
SCALE IN FEET

CIP: 540007–100012
PID NUMBER: 99733

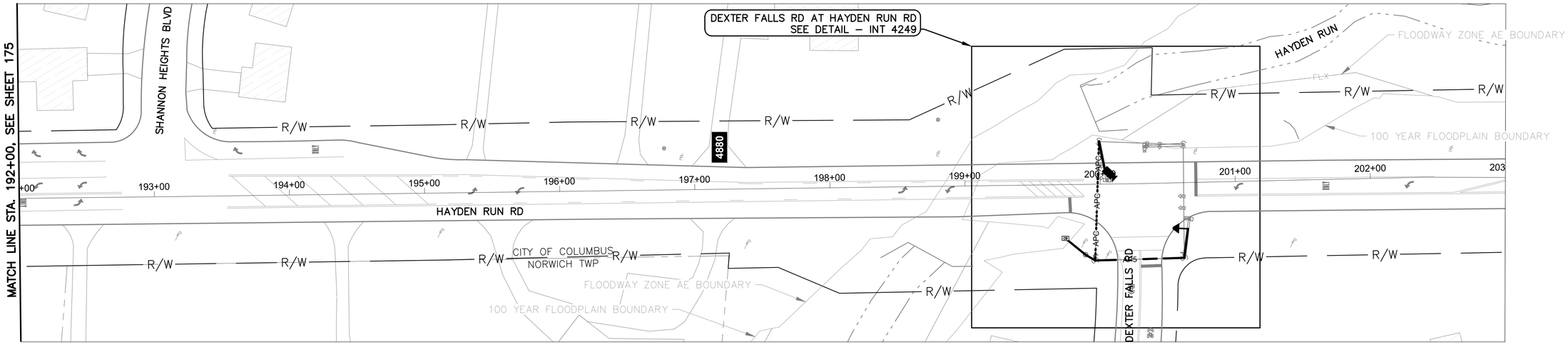
INTERCONNECT PLAN
HAYDEN RUN RD BETWEEN STA. 181+75 AND 192+00, INT 4228

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

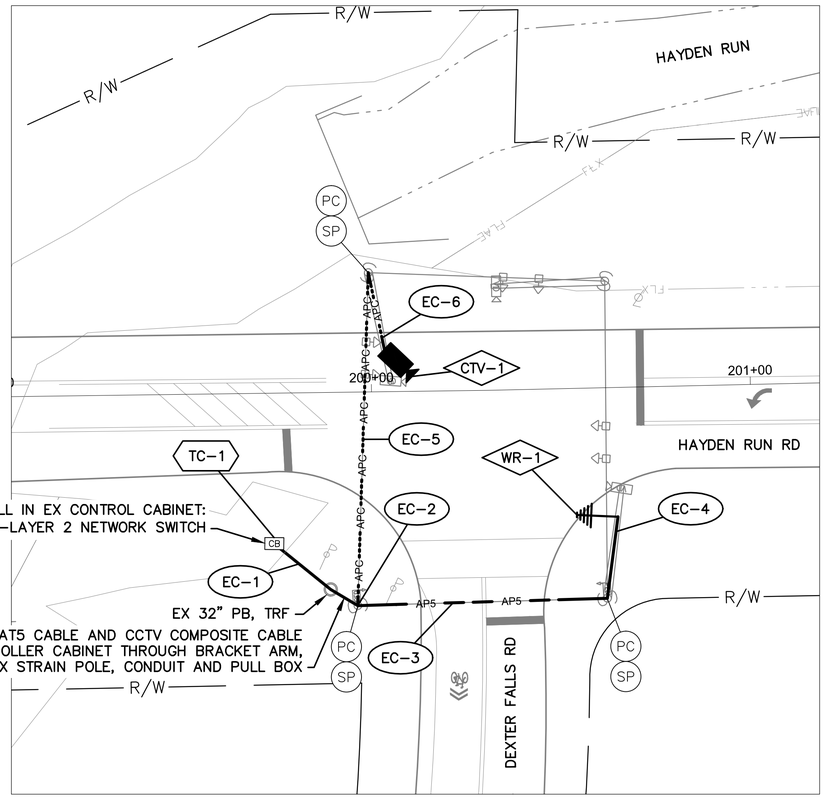
3378-E

175
915

J:\Jobs\63721 ctss phase e\TECHPROD\Sheets\CTSS_PhE_TrunkD_HAYDEN_RUN_2_INTERCONNECT.dwg – HAYDEN_RUN-16 layout ~ last saved by: rwegehoupt 08/24/2018 07:54am ~ printed 09/11/2018 07:36pm PSLTS: 1 LTS: 1 CAS: 1:1



HAYDEN RUN RD BETWEEN STATION 192+00 AND 203+00



DETAIL - INT 4249

0 20 40
HORIZONTAL
SCALE IN FEET

INT 4249 WITH EXISTING SIGNAL CONTROLLER

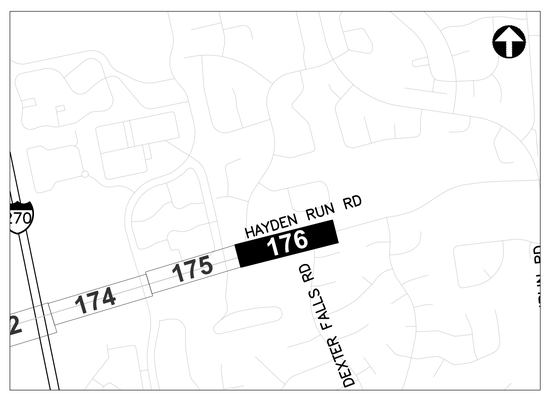
PROPOSED WIRELESS
SEE SHEET 175
INT 4228 – CAMDEN PL DR / STONEBRIDGE CROSSING DR AT HAYDEN RUN ROAD

NOTES:

1. SEE SHEET 177 FOR QUANTITIES.
2. SEE SHEETS 613 & 677 FOR COMMUNICATION DETAILS.

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CITY OF COLUMBUS UTILITY LEGEND
- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 7 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

0 40 80
HORIZONTAL
SCALE IN FEET

CIP: 540007–100012
PID NUMBER: 99733

INTERCONNECT PLAN
HAYDEN RUN RD BETWEEN STA. 192+00 AND 203+00, INT 4249

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

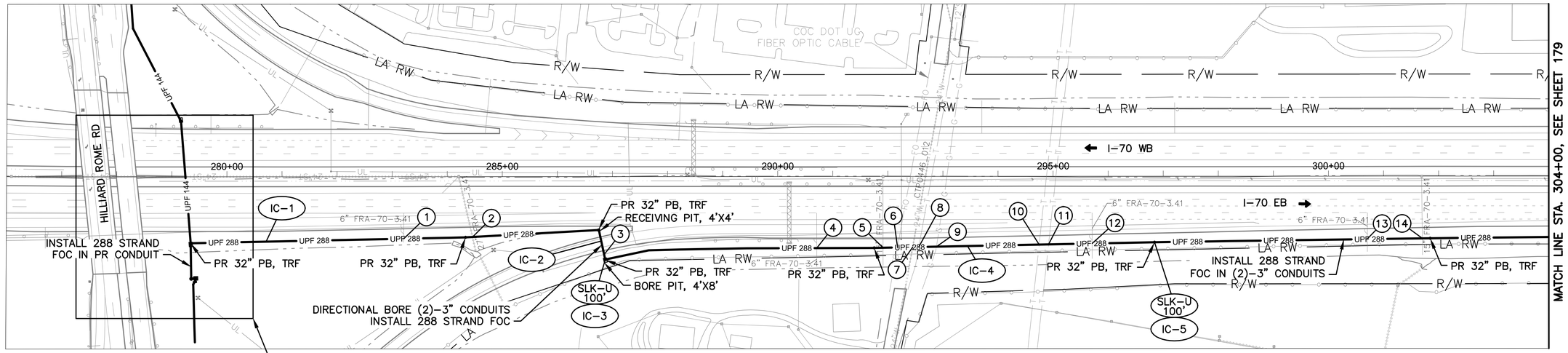
176
915

3378-E

J:\Jobs\63721 ctss phase e\TECHPROD\Sheets\CTSS_PhE_Trunk0_HAYDEN_RUN_2_INTERCONNECT.dwg ~ HAYDEN_RUN-17 layout ~ last saved by: rwegehaupt 08/24/2018 07:54am ~ printed 09/11/2018 07:39pm PSLTS: 1 LTS: 1 CAS: 1:1

ESTIMATED QUANTITIES

SHEET NO.	REFERENCE NO.	LOCATION	STATION		202	632	632	632	632	632	633														
					EXISTING CONDUIT CLEANED, AS PER PLAN	INTERCONNECT, MISC.: CAT 5E CABLE, OUTDOOR RATED	MESSENGER WIRE, 7 STRAND, 1/4" DIAMETER WITH ACCESSORIES, AS PER PLAN	SIGNALIZATION, MISC.: CCTV COMPOSITE CABLE	SIGNALIZATION, MISC.: CCTV IP-CAMERA SYSTEM	SPREAD SPECTRUM RADIO, AS PER PLAN	CONTROLLER ITEM, MISC.: LAYER 2 ETHERNET SWITCH														
			FROM	TO	FT	FT	FT	FT	EACH	EACH	EACH														
HAYDEN RUN RD. BETWEEN STA. 170+50 AND 181+75, INT 4258																									
174	CTV-1	HAYDEN RUN RD	181+28, 48' LT						1																
174	EC-1	HAYDEN RUN RD	181+28, 48' LT	181+39, 49' RT			100	200																	
174	EC-2	HAYDEN RUN RD	181+39, 49' RT					70																	
174	EC-3	HAYDEN RUN RD	181+39, 49' RT	181+39, 34' RT	25			50																	
174	TC-1	HAYDEN RUN RD	181+39, 34' RT					20																	
HAYDEN RUN RD. BETWEEN STA. 181+75 AND 192+00, INT 4228																									
175	EC-2	HAYDEN RUN RD	190+06, 37' LT			35		70																	
175	WR-1	HAYDEN RUN RD	190+06, 37' LT							1															
175	EC-3	HAYDEN RUN RD	190+06, 37' LT	190+12, 61' LT	25	25		50																	
175	CTV-1	HAYDEN RUN RD	190+06, 42' RT						1																
175	EC-1	HAYDEN RUN RD	190+06, 42' RT	190+06, 37' LT			80	160																	
175	TC-1	HAYDEN RUN RD	190+12, 61' LT			10		20																	
HAYDEN RUN RD. BETWEEN STA. 192+00 AND 203+00, INT 4249																									
176	TC-1	HAYDEN RUN RD	199+74, 40' RT			10		20			1														
176	EC-1	HAYDEN RUN RD	199+74, 40' RT	199+96, 56' RT	28	28		56																	
176	EC-2	HAYDEN RUN RD	199+96, 56' RT			35		70																	
176	EC-3	HAYDEN RUN RD	199+96, 56' RT	200+61, 56' RT		66	66																		
176	EC-5	HAYDEN RUN RD	199+96, 56' RT	200+00, 31' LT			89	178																	
176	EC-6	HAYDEN RUN RD	200+00, 31' LT	200+04, 11' LT				21																	
176	CTV-1	HAYDEN RUN RD	200+04, 11' LT						1																
176	EC-4	HAYDEN RUN RD	200+61, 56' RT	200+64, 34' RT		22																			
176	WR-1	HAYDEN RUN RD	200+64, 34' RT							1															



I-70 BETWEEN STATION 276+00 AND 304+00

NOTES:

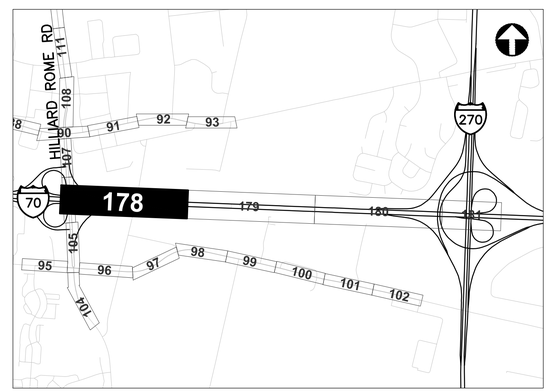
1. SEE SHEET 182 FOR QUANTITIES.
2. SEE SHEETS 611 & 831 FOR COMMUNICATION DETAILS.
3. SEE SHEET 563 FOR NODE DETAILS.

(#) EXISTING UTILITY CROSSING. SEE UTILITY CROSSING INFO SHEET 17.

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CITY OF COLUMBUS UTILITY LEGEND

- [X] SEWER
- [X] WATER
- [ ] POWER
- [ ] LIGHTING



REFER TO SHEET 9 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

3378-E

HORIZONTAL SCALE IN FEET
0 100 200

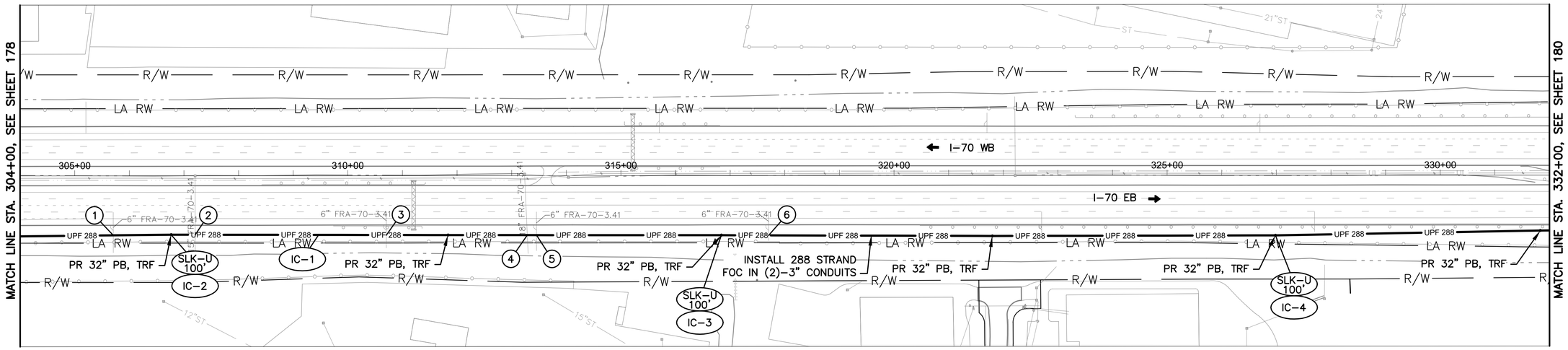
CIP: 540007-100012
PID NUMBER: 99733

INTERCONNECT PLAN
I-70 BETWEEN STA. 276+00 AND 304+00

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E - FINAL SUBMITTAL

178
915

J:\Jobs\63721 ctss phase e\TECHPROD\Sheets\CTSS_PhE_Trunk0_I-70_INTERCONNECT.dwg ~ I-70-1 layout ~ last saved by: gburch 09/04/2018 01:47pm ~ printed 09/11/2018 07:41pm PSLTS: 1 LTS: 1 CAS: 1:1



I-70 BETWEEN STATION 304+00 AND 332+00

NOTES:

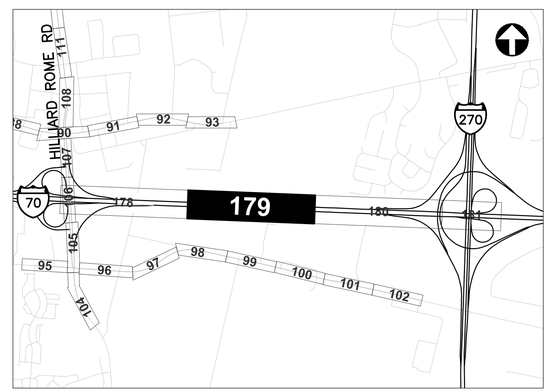
1. SEE SHEET 182 FOR QUANTITIES.
2. SEE SHEET 611 FOR COMMUNICATION DETAILS.

(#) EXISTING UTILITY CROSSING. SEE UTILITY CROSSING INFO SHEET 17.

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CITY OF COLUMBUS UTILITY LEGEND

- [X] SEWER
- [ ] WATER
- [ ] POWER
- [ ] LIGHTING



REFER TO SHEET 12 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

HORIZONTAL SCALE IN FEET
0 100 200

CIP: 540007-100012
PID NUMBER: 99733

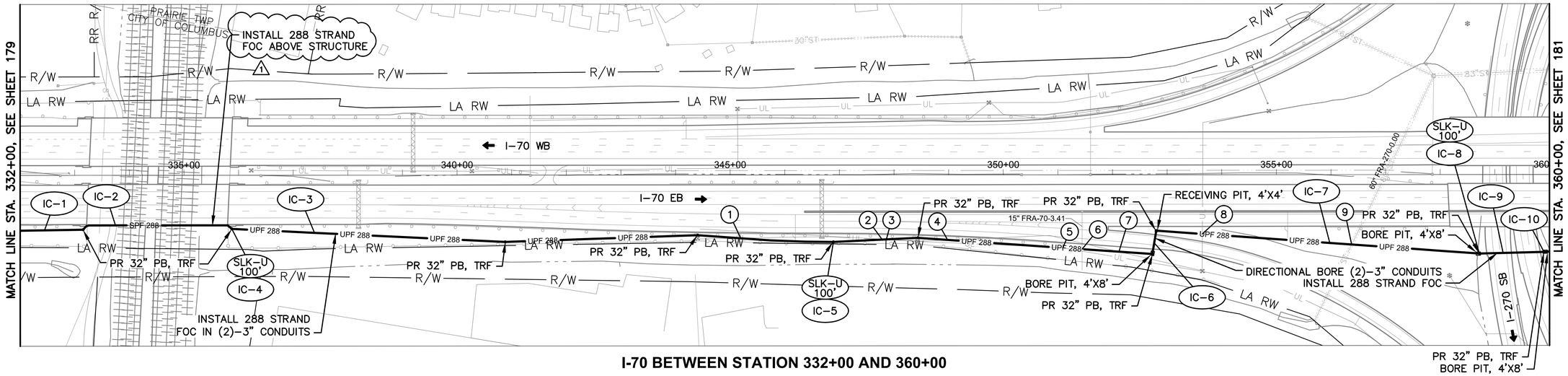
INTERCONNECT PLAN
I-70 BETWEEN STA. 304+00 AND 332+00

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

3378-E

179
915

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I-70 BETWEEN STATION 332+00 AND 360+00

NOTES:

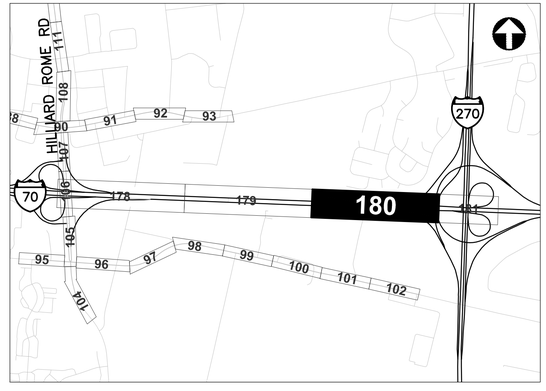
1. SEE SHEET 182 FOR QUANTITIES.
2. SEE SHEET 614 FOR COMMUNICATION DETAILS.
3. RAILROAD CROSSING AT STA. 228+40. SEE SHEET 24 FOR RAILROAD COORDINATION DETAILS.

(#) EXISTING UTILITY CROSSING. SEE UTILITY CROSSING INFO SHEET 17.

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CITY OF COLUMBUS UTILITY LEGEND

- [X] SEWER
- [ ] WATER
- [ ] POWER
- [ ] LIGHTING



REFER TO SHEET 12 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

1 REVISION 1.0
11–02–2018

3378-E

HORIZONTAL SCALE IN FEET
0 100 200

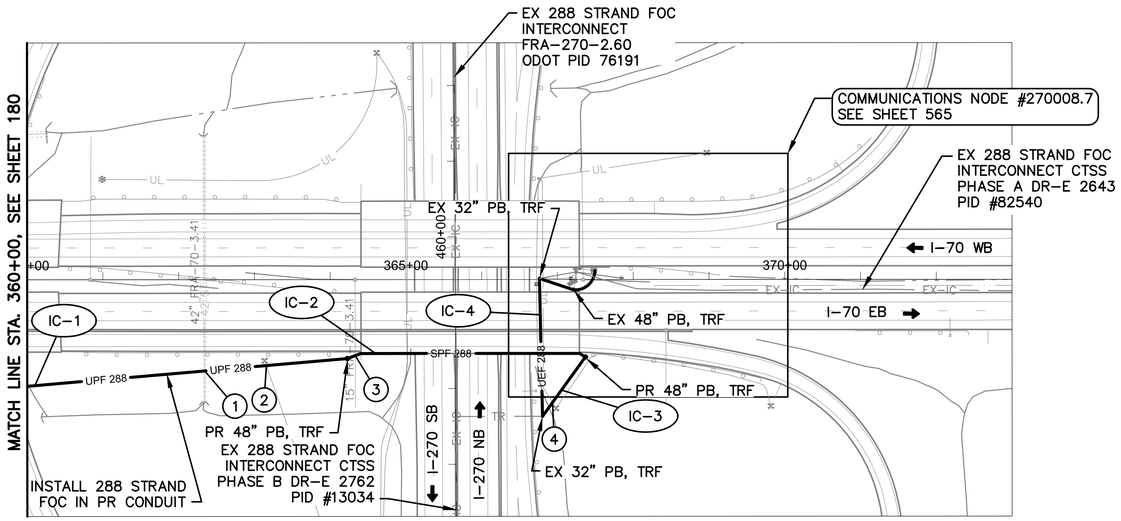
CIP: 540007–100012
PID NUMBER: 99733

INTERCONNECT PLAN
I–70 BETWEEN STA. 332+00 AND 360+00

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

180
915

J:\Jobs\63721 CTSS Phase E\TECHPROD\Sheets\CTSS_PhE_TrunkO_I-70_INTERCONNECT.dwg ~ I-70-3 layout ~ last saved by: jkeans 11/05/2018 04:41pm ~ printed 11/06/2018 01:30pm PSLTS: 1 LTS: 1 CAS: 1:1



I-70 BETWEEN STATION 360+00 AND 373+00

NOTES:

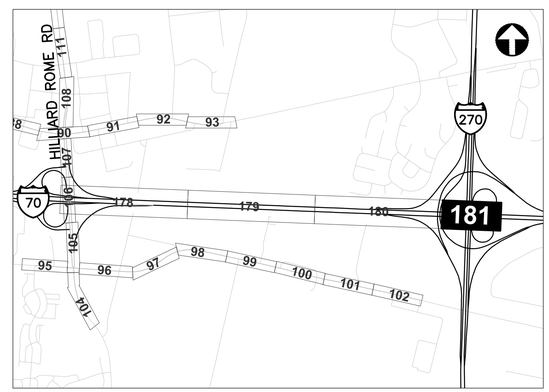
1. SEE SHEET 182 FOR QUANTITIES.
2. SEE SHEET 614 FOR COMMUNICATION DETAILS.
3. SEE SHEET 565 FOR NODE DETAILS.
4. LIMITED ACCESS RIGHT OF WAY IS LOCATED OUTSIDE OF THE EXTENT OF VIEW SHOWN ABOVE.

(#) EXISTING UTILITY CROSSING. SEE UTILITY CROSSING INFO SHEET 17.

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CITY OF COLUMBUS UTILITY LEGEND

- [X] SEWER
- [ ] WATER
- [ ] POWER
- [ ] LIGHTING



REFER TO SHEET 12 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

HORIZONTAL SCALE IN FEET
0 100 200

CIP: 540007-100012
PID NUMBER: 99733

INTERCONNECT PLAN
I-70 BETWEEN STA. 360+00 AND 373+00

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E - FINAL SUBMITTAL

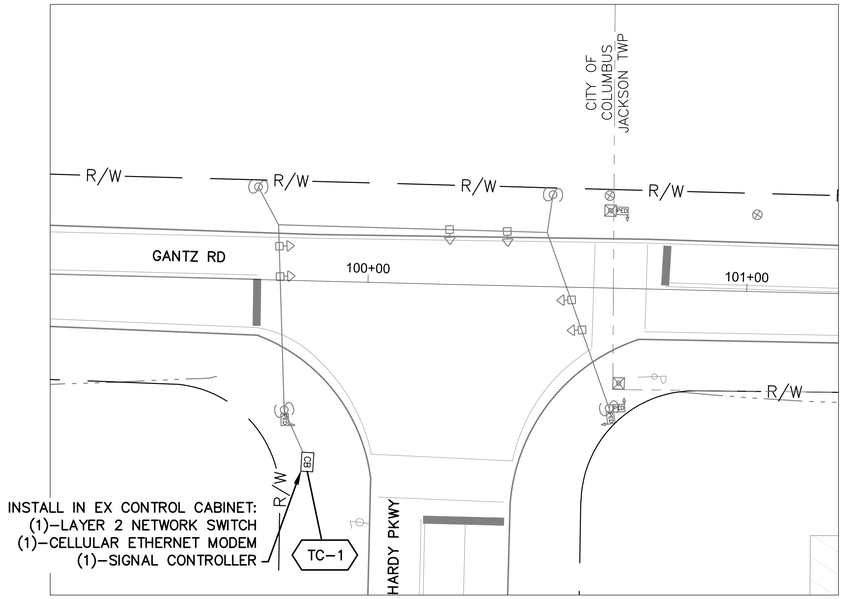
3378-E

181
915

J:\Jobs\63721 ctss phase e\TECHPROD\Sheets\CTSS_PhE_Trunk0_J-70_INTERCONNECT.dwg - I-70-4 layout ~ last saved by gburch 09/04/2018 01:47pm ~ printed 09/11/2018 07:47pm PSLTS: 1 LTS: 1 CAS: 1:1

ESTIMATED QUANTITIES

SHEET NO.	REFERENCE NO.	LOCATION	STATION		202	625	625	625	625	625	625	632												
					EXISTING CONDUIT CLEANED, AS PER PLAN	CONDUIT, 3", AS PER PLAN	CONDUIT, JACKED OR DRILLED, 3", AS PER PLAN	CONDUIT, MISC.: 4" CONDUIT, FIBER-GLASS REINFORCED, ATTACHED TO STRUCTURE	PULL BOX, CONCRETE 32", AS PER PLAN	PULL BOX, CONCRETE 48", AS PER PLAN	TRENCH, 36" DEEP, AS PER PLAN	INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 288 STRAND												
			FROM	TO	FT	FT	FT	FT	EACH	EACH	FT	FT												
I-70 BETWEEN STA. 276+00 AND 304+00																								
178	IC-1	I-70	279+35, 185' RT	286+75, 97' RT		1,612			2		806	806												
178	IC-2	I-70	286+75, 97' RT	286+86, 150' RT			110		1			55												
178	IC-3	I-70	286+86, 150' RT						1			100												
178	IC-4	I-70	286+86, 150' RT	304+00, 110' RT		3,430			2		1,715	1,715												
178	IC-5	I-70	296+84, 119' RT						1			100												
I-70 BETWEEN STA. 304+00 AND 332+00																								
179	IC-1	I-70	304+00, 110' RT	332+00, 101' RT		5,600			3		2,800	2,800												
179	IC-2	I-70	306+76, 108' RT						1			100												
179	IC-3	I-70	316+83, 109' RT						1			100												
179	IC-4	I-70	326+98, 110' RT						1			100												
I-70 BETWEEN STA. 332+00 AND 360+00																								
180	IC-1	I-70	332+00, 101' RT	333+21, 93' RT		248			1		124	124												
180	IC-2	I-70	333+21, 93' RT	335+81, 93' RT				524				262												
180	IC-3	I-70	335+81, 93' RT	352+72, 145' RT		3,390			4		1,695	1,695												
180	IC-4	I-70	335+87, 98' RT						1			100												
180	IC-5	I-70	346+88, 122' RT						1			100												
180	IC-6	I-70	352+72, 145' RT	352+80, 102' RT			86					43												
180	IC-7	I-70	352+80, 102' RT	358+71, 144' RT		1,186			1		593	593												
180	IC-8	I-70	358+71, 144' RT						1			100												
180	IC-9	I-70	358+71, 144' RT	359+89, 141' RT			236					118												
180	IC-10	I-70	359+89, 141' RT	360+00, 141' RT		20			1		10	10												
I-70 BETWEEN STA. 360+00 AND 373+00																								
181	IC-1	I-70	360+00, 141' RT	364+40, 97' RT		886				1	443	443												
181	IC-2	I-70	364+40, 97' RT	367+28, 97' RT				576				288												
181	IC-4	I-70	366+80, 180' RT	367+20, 14' RT	229							229												
181	IC-3	I-70	366+80, 180' RT	367+28, 97' RT		212				1	106	106												



DETAIL - INT 1112

0 20 40

HORIZONTAL
SCALE IN FEET

NOTES:

1. SEE SHEET 188 FOR QUANTITIES.
2. SEE SHEETS 629 & 831 FOR COMMUNICATION DETAILS.

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CITY OF COLUMBUS
UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 12 FOR
INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

3378-E

0 40 80
HORIZONTAL
SCALE IN FEET

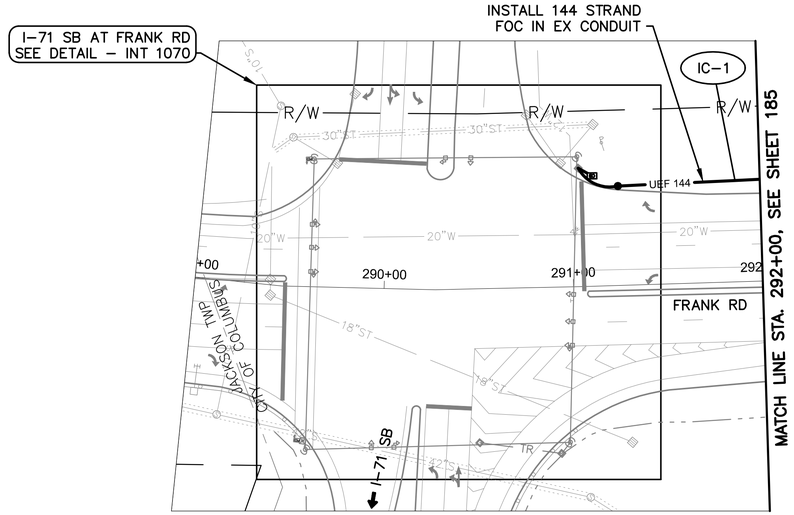
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PID NUMBER: 99733

INTERCONNECT PLAN
GANTZ RD, INT 1112

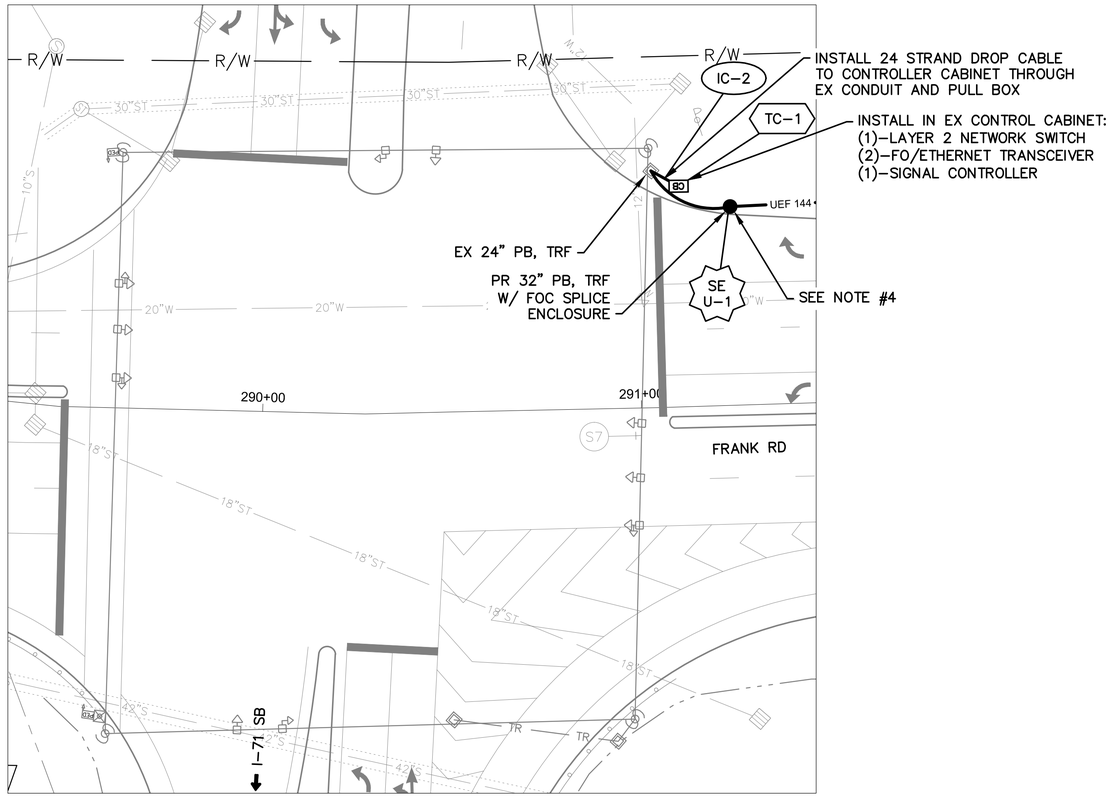
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

183
915

J:\Jobs\63721 ctss phase e\TECHPROD\Sheets\CTSS_PhE_Trunk1_GANTZ_INTERCONNECT.dwg – GANTZ-2 layout ~ last saved by: gburich 06/15/2018 08:44am ~ printed 09/11/2018 07:48pm PSLTS: 1 LTS: 1 CAS: 1:1



FRANK RD BETWEEN STATION 289+00 AND 292+00



DETAIL - INT 1070

0 20 40

HORIZONTAL
SCALE IN FEET

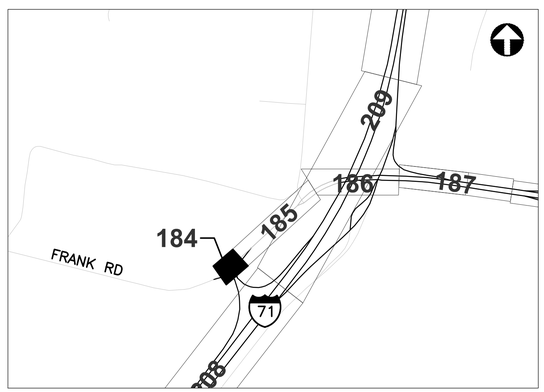
NOTES:

1. SEE SHEET 188 FOR QUANTITIES.
2. SEE SHEETS 629 & 832 FOR COMMUNICATION DETAILS.
3. LIMITED ACCESS RIGHT OF WAY IS LOCATED OUTSIDE OF THE EXTENT OF VIEW SHOWN ABOVE.
4. SEE SHEET 50 FOR INTERCEPTING EXISTING CONDUIT DETAILS.

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CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☒ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 12 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

0 40 80

HORIZONTAL
SCALE IN FEET

CIP: 540007-100012
PID NUMBER: 99733

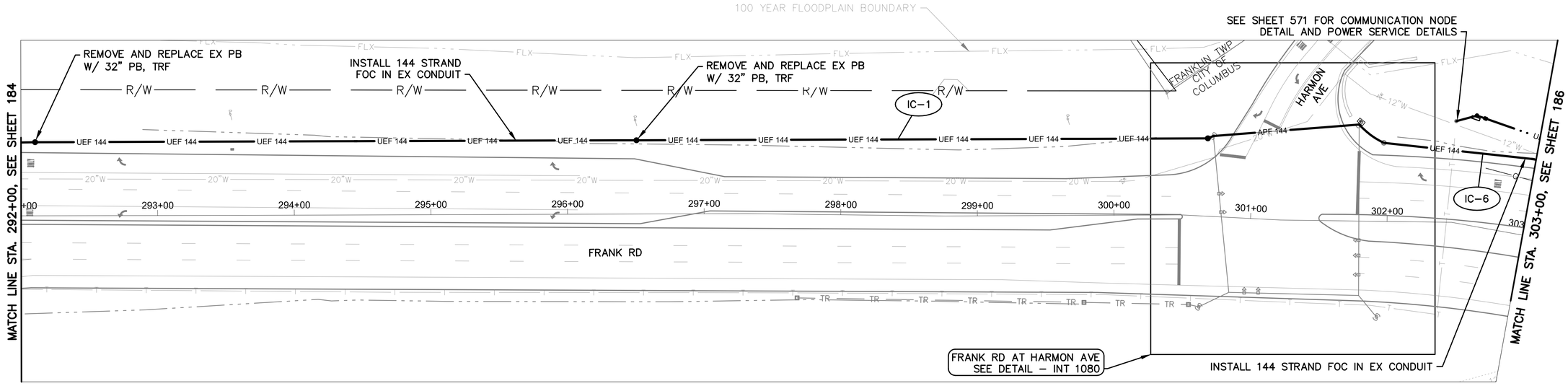
INTERCONNECT PLAN
FRANK RD BETWEEN STA. 289+00 AND 292+00, INT 1070

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

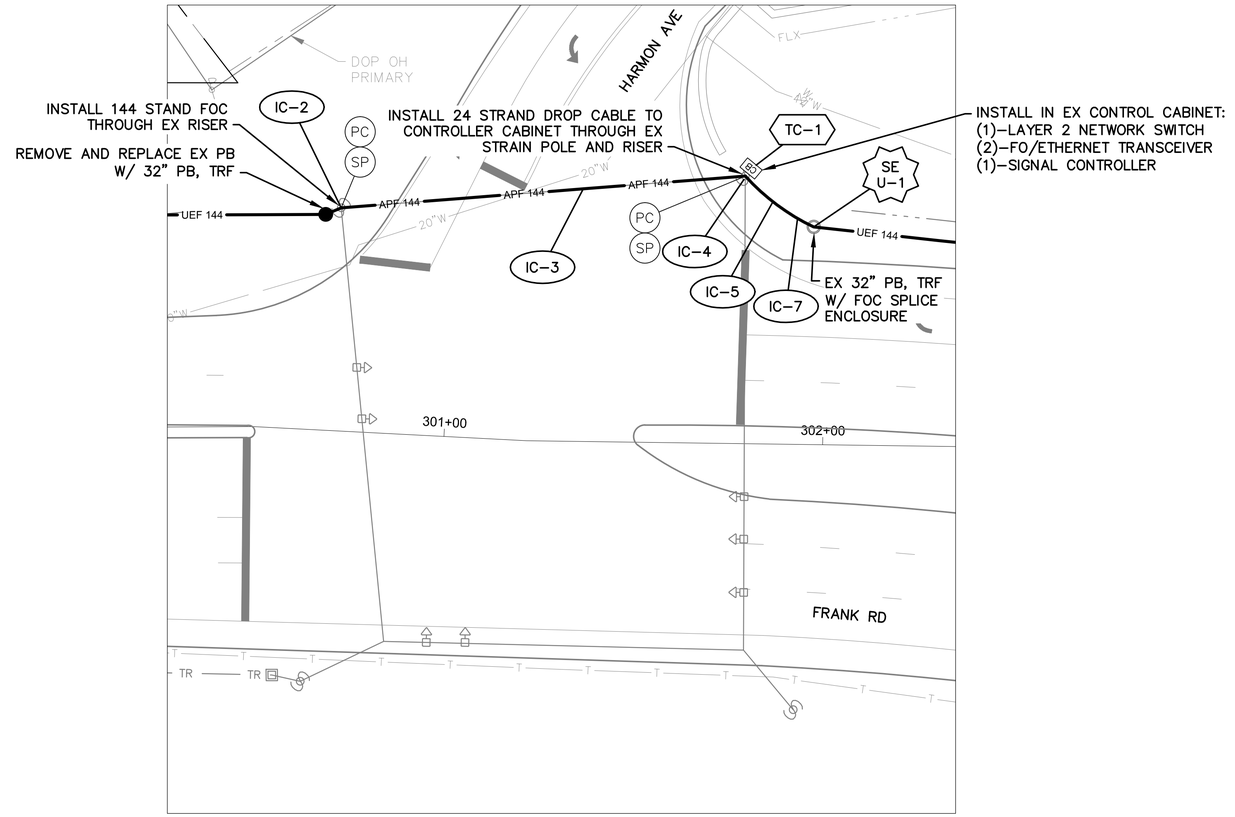
184
915

3378-E

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FRANK RD BETWEEN STATION 292+00 AND 303+00



DETAIL - INT 1080

0 20 40

HORIZONTAL SCALE IN FEET

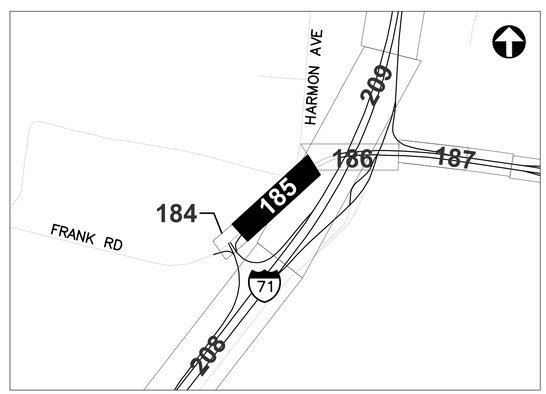
NOTES:

1. SEE SHEET 188 FOR QUANTITIES.
2. SEE SHEETS 629 & 833 FOR COMMUNICATION DETAILS.
3. EXISTING CONDUIT TO CONTROLLER CABINET IS FULL. INSTALL NEW FLEXIBLE CONDUIT TO CABINET FOR PROPOSED DROP CABLE.
4. LIMITED ACCESS RIGHT OF WAY IS LOCATED OUTSIDE OF THE EXTENT OF VIEW SHOWN ABOVE.

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CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 12 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

0 40 80

HORIZONTAL SCALE IN FEET

CIP: 540007–100012
PID NUMBER: 99733

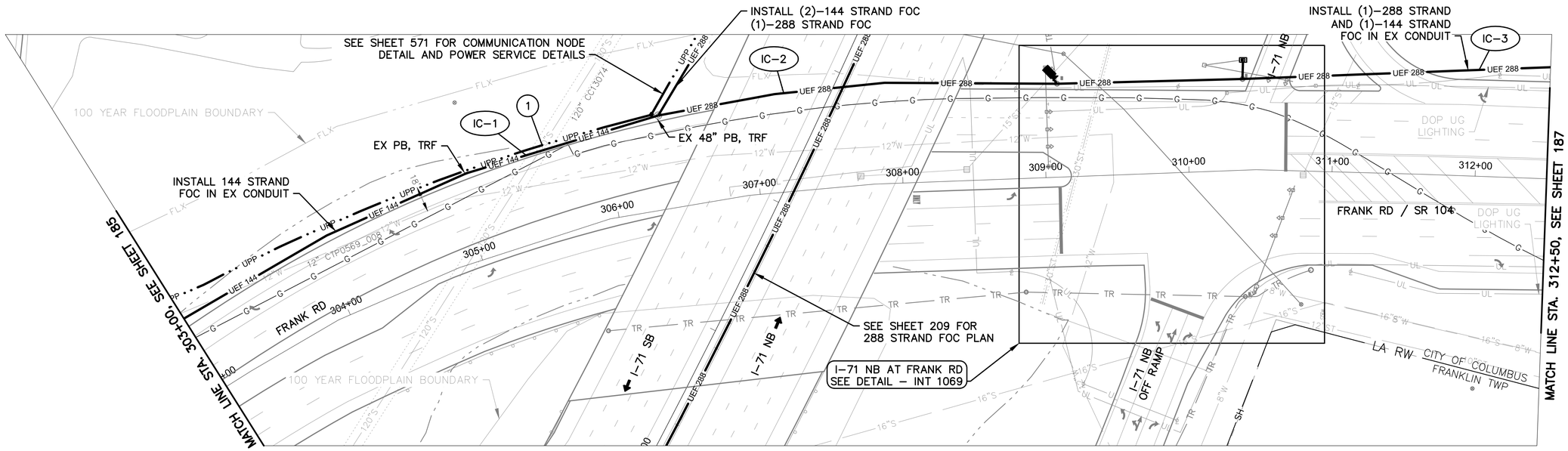
INTERCONNECT PLAN
FRANK RD BETWEEN STA. 292+00 AND 303+00, INT 1080

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

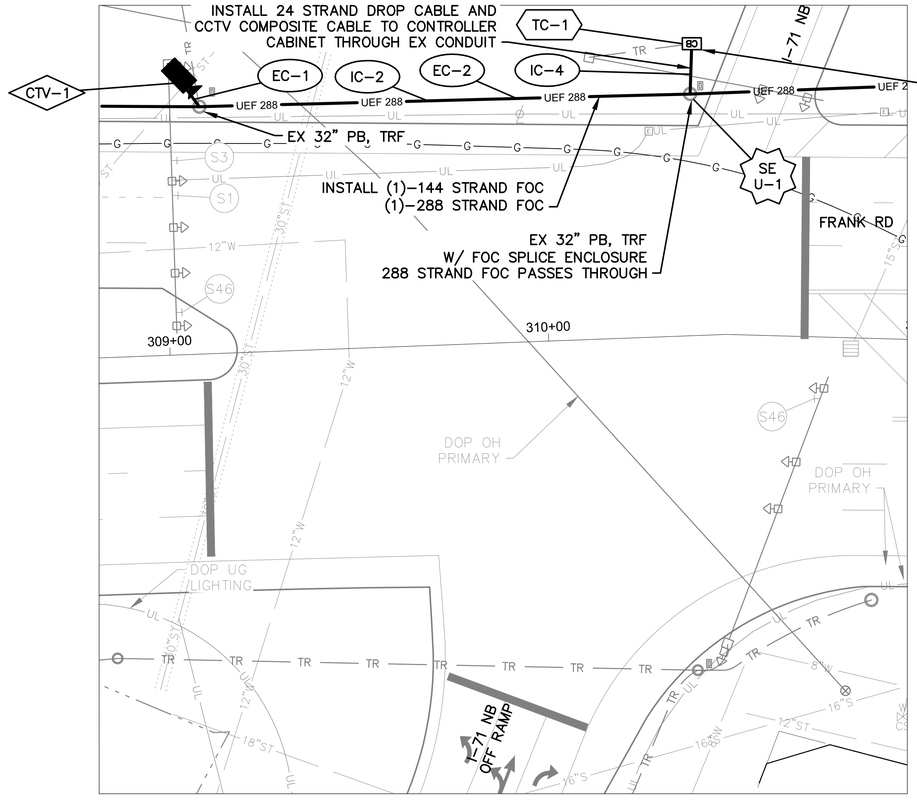
3378-E

185
915

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FRANK RD BETWEEN STATION 303+00 AND 312+50



INSTALL IN EX CONTROL CABINET:
(1)–LAYER 2 NETWORK SWITCH
(2)–FO/ETHERNET TRANSCEIVER
(1)–SIGNAL CONTROLLER

DETAIL - INT 1069

0 20 40
HORIZONTAL SCALE IN FEET

NOTES:

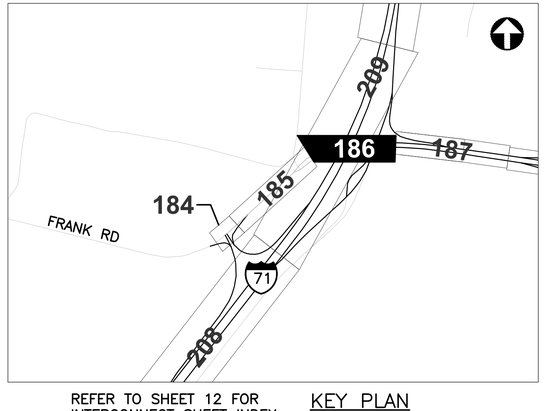
1. SEE SHEET 188 FOR QUANTITIES.
2. SEE SHEETS 629 & 839 FOR COMMUNICATION DETAILS.
3. LIMITED ACCESS RIGHT OF WAY IS LOCATED OUTSIDE OF THE EXTENT OF VIEW SHOWN ABOVE.

(#) EXISTING UTILITY CROSSING. SEE UTILITY CROSSING INFO SHEET 17.

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CITY OF COLUMBUS UTILITY LEGEND

- SEWER
- WATER
- POWER
- LIGHTING



REFER TO SHEET 12 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

0 40 80
HORIZONTAL SCALE IN FEET

CIP: 540007–100012
PID NUMBER: 99733

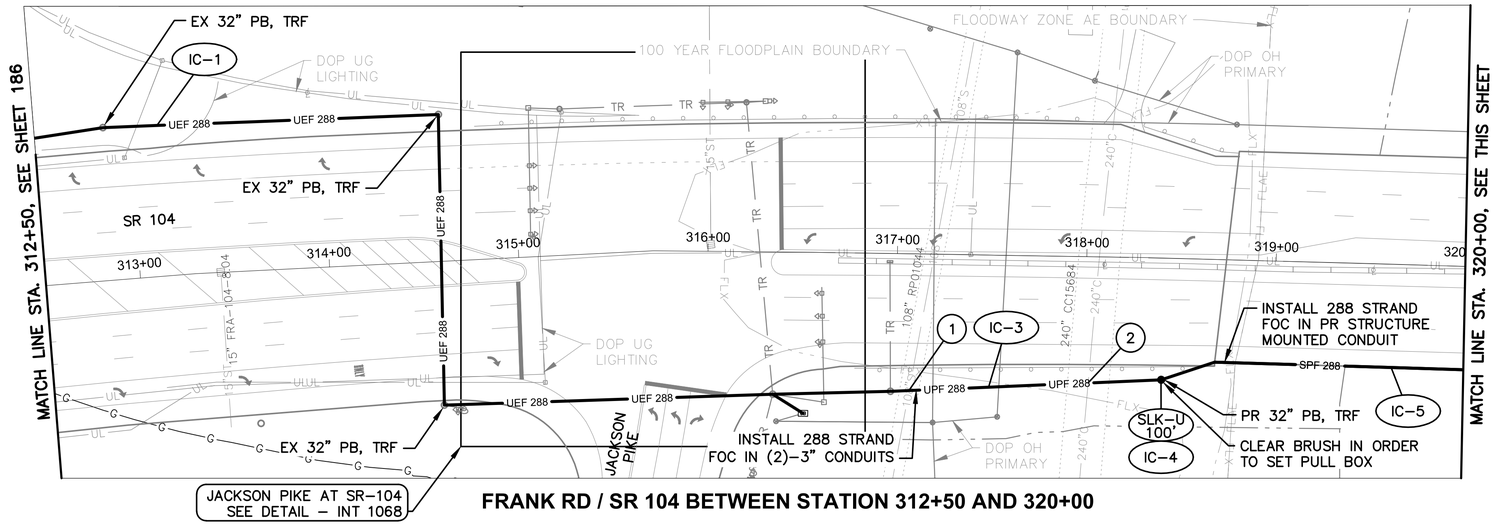
INTERCONNECT PLAN
FRANK RD BETWEEN STA. 303+00 AND 312+50, INT 1069

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

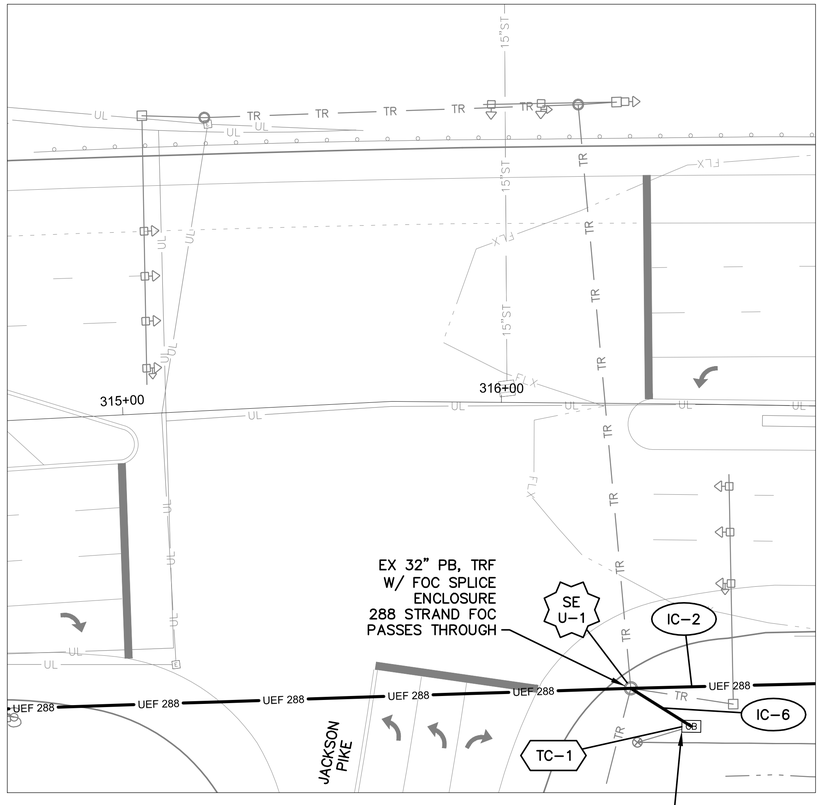
3378-E

186
915

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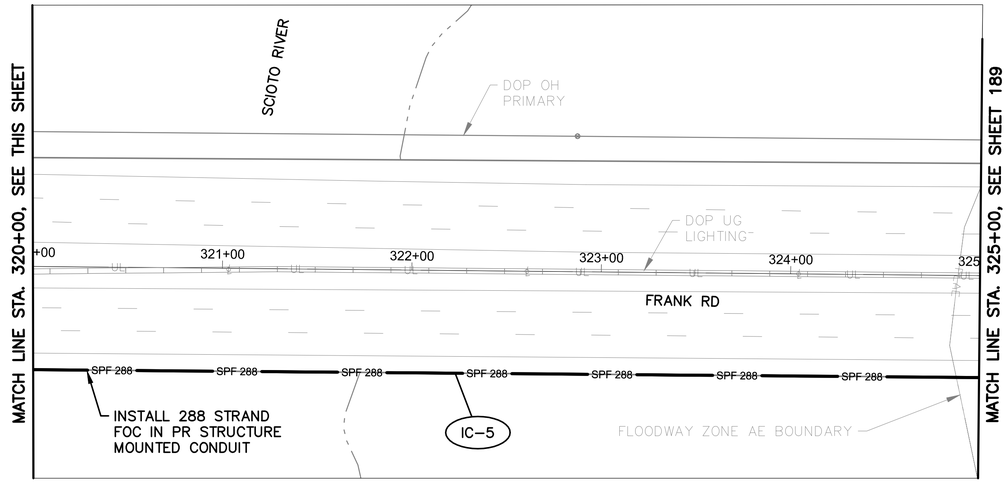


FRANK RD / SR 104 BETWEEN STATION 312+50 AND 320+00



DETAIL - INT 1068

0 20 40
HORIZONTAL SCALE IN FEET



FRANK RD / SR 104 BETWEEN STATION 320+00 AND 325+00

NOTES:

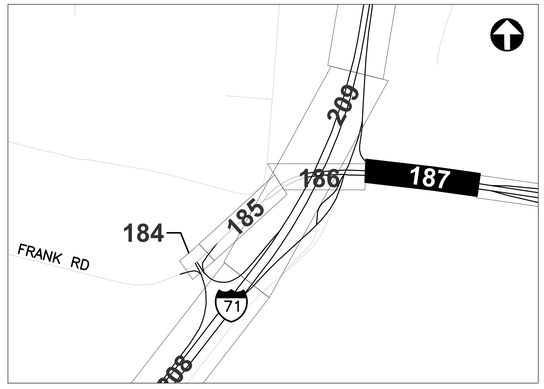
1. SEE SHEET 188 FOR QUANTITIES.
2. SEE SHEETS 629 & 838 FOR COMMUNICATION DETAILS.
3. LIMITED ACCESS RIGHT OF WAY IS LOCATED OUTSIDE OF THE EXTENT OF VIEWS SHOWN ABOVE.

(#) EXISTING UTILITY CROSSING. SEE UTILITY CROSSING INFO SHEET 17.

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CITY OF COLUMBUS UTILITY LEGEND

- ☒ SEWER
- ☐ WATER
- ☒ POWER
- ☒ LIGHTING



REFER TO SHEET 12 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

0 40 80
HORIZONTAL SCALE IN FEET

CIP: 540007-100012
PID NUMBER: 99733

INTERCONNECT PLAN
FRANK RD BETWEEN STA. 312+50 AND 325+00, INT 1068

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E - FINAL SUBMITTAL

187
915

3378-E

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ESTIMATED QUANTITIES

SHEET NO.	REFERENCE NO.	LOCATION	STATION		202	625	625	625	625	625	632	632	632	632	632	632	632	632	632	633	633	633	
					EXISTING CONDUIT CLEANED, AS PER PLAN	CONDUIT, CONCRETE ENCASED, 2-3", 725.05, AS PER PLAN	CONDUIT, MISC.: 4" CONDUIT, FIBER-GLASS REINFORCED, ATTACHED TO STRUCTURE	PULL BOX, CONCRETE 32", AS PER PLAN	PULL BOX, REMOVED, AS PER PLAN	TRENCH, 36" DEEP, AS PER PLAN	INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 144 STRAND	INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 288 STRAND	INTERCONNECT CABLE, MISC.: FIBER OPTIC DROP CABLE, 24 STRAND	INTERCONNECT CABLE, MISC.: FIBER OPTIC FUSION SPLICE	INTERCONNECT CABLE, MISC.: TERMINATION PANEL, 24 FIBER	INTERCONNECT, MISC.: SPLICE ENCLOSURE, CLAMSHELL, 288 SPLICE	MESSENGER WIRE, 7 STRAND, 1/4" DIAMETER WITH ACCESSORIES, AS PER PLAN	SIGNALIZATION, MISC.: CCTV COMPOSITE CABLE	SIGNALIZATION, MISC.: CCTV IP-CAMERA SYSTEM	SIGNALIZATION, MISC.: CELLULAR ETHERNET COMMUNICATIONS UNIT	CONTROLLER ITEM, MISC.: FIBER OPTIC ETHERNET TRANSCEIVER, SHORT RANGE	CONTROLLER ITEM, MISC.: LAYER 2 ETHERNET SWITCH	CONTROLLER UNIT, TYPE TS2/A2, AS PER PLAN	
			FROM	TO	FT	FT	FT	EACH	EACH	FT	FT	FT	FT	EACH	EACH	EACH	FT	FT	EACH	EACH	EACH	EACH	EACH	
GANTZ RD., INT 1112																								
183	TC-1	GANTZ RD	99+79, 34' RT																	1		1	1	
FRANK RD. BETWEEN STA. 289+00 AND 292+00, INT 1070																								
184	IC-2	FRANK RD	291+11, 58' LT	291+25, 52' LT	33								33											
184	TC-1	FRANK RD	291+11, 58' LT										10		1						2	1	1	
184	SE U-1	FRANK RD	291+25, 52' LT					1			75		125	12		1								
184	IC-1	FRANK RD	291+25, 52' LT	292+00, 54' LT	75						75													
FRANK RD. BETWEEN STA. 292+00 AND 303+00, INT 1080																								
185	IC-1	FRANK RD	292+00, 54' LT	300+70, 59' LT	873			3	3		873													
185	IC-2	FRANK RD	300+70, 59' LT								35													
185	IC-3	FRANK RD	300+70, 59' LT	301+78, 71' LT							109						109							
185	TC-1	FRANK RD	301+78, 71' LT										10		1						2	1	1	
185	IC-4	FRANK RD	301+78, 71' LT								35													
185	IC-7	FRANK RD	301+78, 71' LT	301+96, 57' LT									22											
185	IC-5	FRANK RD	301+78, 71' LT	301+96, 57' LT	22						22													
185	SE U-1	FRANK RD	301+96, 57' LT								150		125	24		1								
185	IC-6	FRANK RD	301+96, 57' LT	303+00, 56' LT	113						113													
FRANK RD. BETWEEN STA. 303+00 AND 312+50, INT 1069																								
186	IC-1	FRANK RD	303+00, 56' LT	306+38, 66' LT	362						362													
186	IC-2	FRANK RD	306+38, 66' LT	310+39, 64' LT	410						410	410												
186	CTV-1	FRANK RD	309+03, 77' LT															35	1					
186	EC-1	FRANK RD	309+03, 77' LT	309+10, 65' LT	14													28						
186	EC-2	FRANK RD	309+10, 65' LT	310+40, 77' LT														286						
186	SE U-1	FRANK RD	310+39, 64' LT								150		125	24		1								
186	IC-4	FRANK RD	310+39, 64' LT	310+40, 77' LT	13								13											
186	IC-3	FRANK RD	310+39, 64' LT	312+50, 78' LT	216						216	216												
186	TC-1	FRANK RD	310+40, 77' LT										10		1			20			2	1	1	
SR-104 BETWEEN STA. 312+50 AND 325+00, INT 1068																								
187	IC-1	FRANK RD	312+50, 78' LT	316+35, 75' RT	541						541	541												
187	SE U-1	FRANK RD	316+35, 75' RT								75		125	12		1								
187	IC-2	FRANK RD	316+35, 75' RT	316+97, 73' RT	62							62												
187	IC-6	FRANK RD	316+35, 75' RT	316+51, 85' RT	19								19											
187	TC-1	FRANK RD	316+51, 85' RT										10		1						2	1	1	
187	IC-3	FRANK RD	316+97, 73' RT	318+69, 54' RT		173				173		173												
187	IC-5	FRANK RD	318+41, 63' RT					1				100												
187	IC-4	FRANK RD	318+69, 54' RT	325+00, 54' RT			1,262					631												
SHEET TOTAL					2,753	173	1,262	5	3	173	3,241	2,133	627	72	4	4	109	369	1	1	8	5	5	-

AERIAL SAG: 1.5% AERIAL SAG IS INCLUDED IN THE QUANTITIES FOR ANY AERIAL FIBER OR CABLE ITEMS.

3378-E

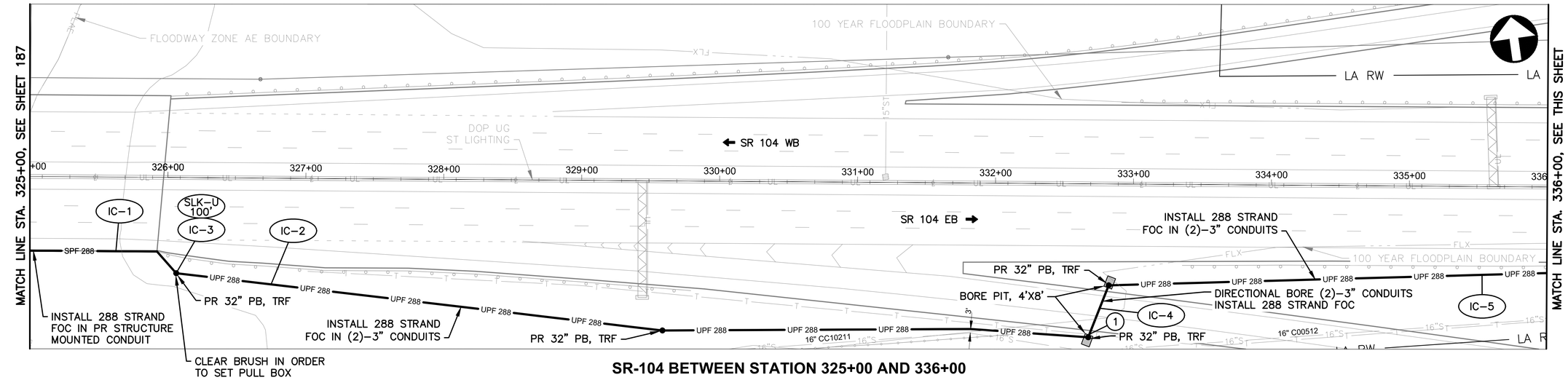
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PID NUMBER: 99733

GANTZ RD INT 1112
FRANK RD BETWEEN STA. 289+00 & 325+00, INTS 1070, 1080, 1069

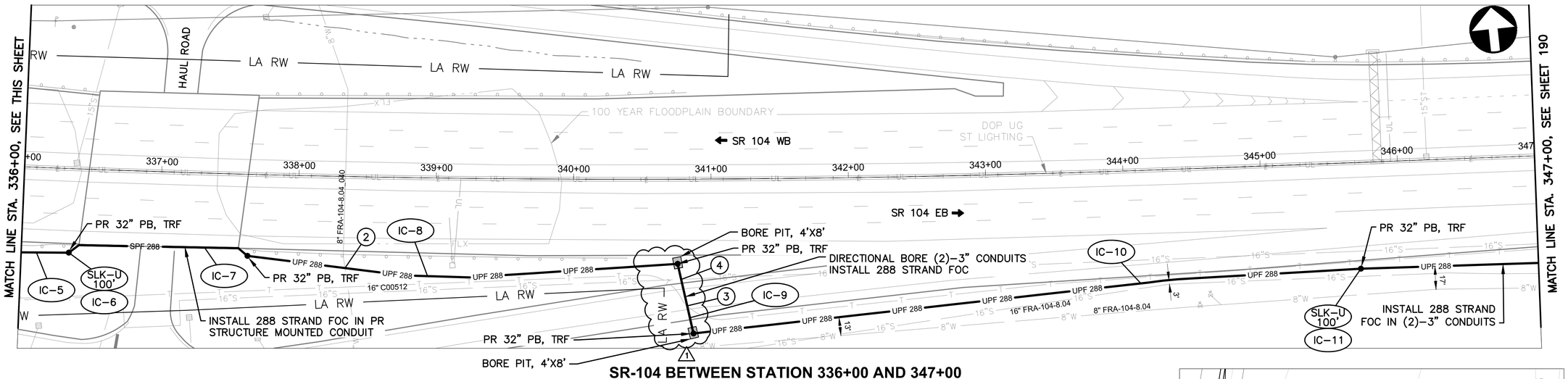
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

188
915

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SR-104 BETWEEN STATION 325+00 AND 336+00



SR-104 BETWEEN STATION 336+00 AND 347+00

NOTES:

1. SEE SHEET 191 FOR QUANTITIES.
2. SEE SHEET 629 FOR COMMUNICATION DETAILS.
3. LIMITED ACCESS RIGHT OF WAY IS LOCATED OUTSIDE OF THE EXTENT OF VIEWS SHOWN ABOVE.

(#) EXISTING UTILITY CROSSING. SEE UTILITY CROSSING INFO SHEET 17.

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CITY OF COLUMBUS UTILITY LEGEND	
☒	SEWER
☒	WATER
☐	POWER
☒	LIGHTING



REFER TO SHEET 12 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

1 REVISION 1.0
11-02-2018

3378-E

HORIZONTAL SCALE IN FEET
0 40 80

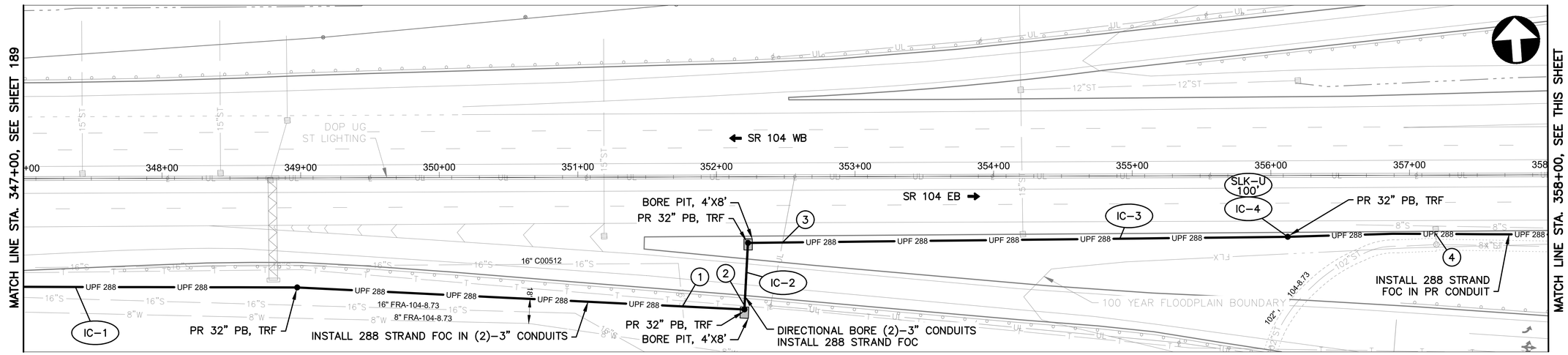
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PID NUMBER: 99733

INTERCONNECT PLAN
SR-104 BETWEEN STA. 325+00 AND 347+00

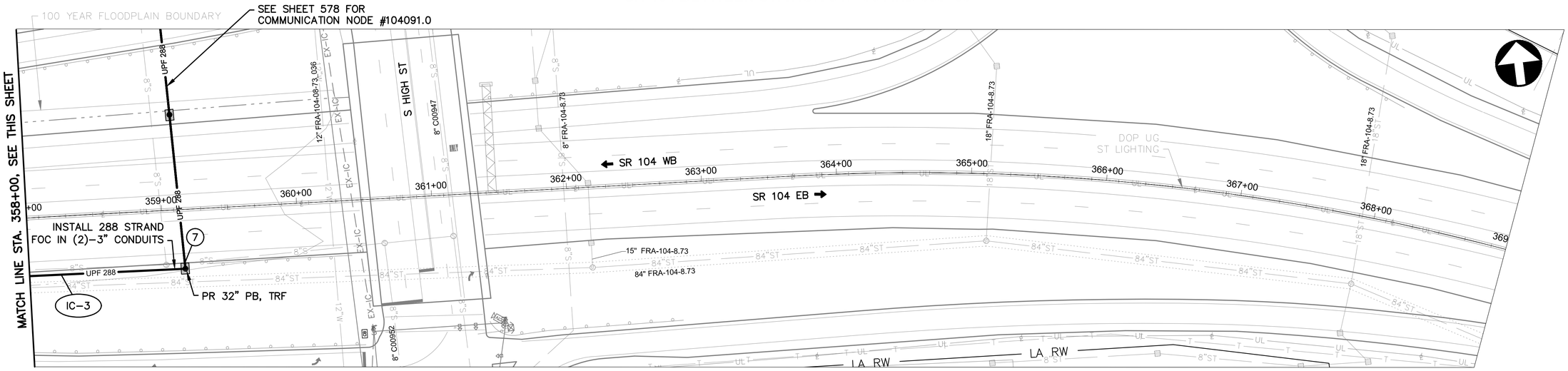
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E - FINAL SUBMITTAL

189
915

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SR-104 BETWEEN STATION 347+00 AND 358+00



SR-104 BETWEEN STATION 358+00 AND 369+00

NOTES:

1. SEE SHEET 191 FOR QUANTITIES.
2. SEE SHEET 629 FOR COMMUNICATION DETAILS.
3. SEE SHEET 578 FOR UTILITY CROSSINGS 5–6 AND 9.
4. LIMITED ACCESS RIGHT OF WAY IS LOCATED OUTSIDE OF THE EXTENT OF VIEWS SHOWN ABOVE.

(#) EXISTING UTILITY CROSSING. SEE UTILITY CROSSING INFO SHEET 17.

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CITY OF COLUMBUS UTILITY LEGEND

- [X] SEWER
- [X] WATER
- [ ] POWER
- [X] LIGHTING



REFER TO SHEET 12 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

3378-E

HORIZONTAL SCALE IN FEET
0 40 80

CIP: 540007-100012
PID NUMBER: 99733

INTERCONNECT PLAN
SR-104 BETWEEN STA. 347+00 AND 369+00

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

190
915

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ESTIMATED QUANTITIES

SHEET NO.	REFERENCE NO.	LOCATION	STATION FROM	STATION TO	625 CONDUIT, 3", AS PER PLAN	625 CONDUIT, JACKED OR DRILLED, 3", AS PER PLAN	625 CONDUIT, MISC.: 4" CONDUIT, FIBER-GLASS REINFORCED, ATTACHED TO STRUCTURE	625 PULL BOX, CONCRETE 32", AS PER PLAN	625 TRENCH, 36" DEEP, AS PER PLAN	632 INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 288 STRAND														
			FT	FT	FT	EACH	FT	FT																
STATE ROUTE 104 BETWEEN STA. 325+00 AND 347+00																								
189	IC-1	SR-104	325+00, 54' RT	325+92, 54' RT			186			93														
189	IC-2	SR-104	325+92, 54' RT	332+67, 111' RT	1,390			2	695	695														
189	IC-3	SR-104	326+06, 69' RT					1		100														
189	IC-4	SR-104	332+67, 111' RT	332+82, 74' RT		80				40														
189	IC-5	SR-104	332+82, 74' RT	336+41, 55' RT	724			1	362	362														
189	IC-6	SR-104	336+34, 61' RT					1		100														
189	IC-7	SR-104	336+41, 55' RT	337+57, 54' RT			232			116														
189	IC-8	SR-104	337+57, 54' RT	340+75, 62' RT	646			2	323	323														
189	IC-9	SR-104	340+75, 62' RT	340+87, 112' RT		104				52														
189	IC-10	SR-104	340+87, 112' RT	347+00, 78' RT	1,236			1	618	618														
189	IC-11	SR-104	345+70, 77' RT					1		100														
STATE ROUTE 104 BETWEEN STA. 347+00 AND 369+00							1																	
190	IC-1	SR-104	347+00, 78' RT	352+19, 96' RT	1,040			2	520	520														
190	IC-2	SR-104	352+19, 96' RT	352+22, 48' RT		96				48														
190	IC-3	SR-104	352+22, 48' RT	359+15, 44' RT	1,384			2	692	692														
190	IC-4	SR-104	356+12, 44' RT					1		100														
SHEET TOTAL					6,420	280	418	14	3,210	3,959	-	-	-	-	-	-	-	-	-	-	-	-	-	-

AERIAL SAG: 1.5% AERIAL SAG IS INCLUDED IN THE QUANTITIES FOR ANY AERIAL FIBER OR CABLE ITEMS.

1 REVISION 1.0 11-02-2018

3378-E

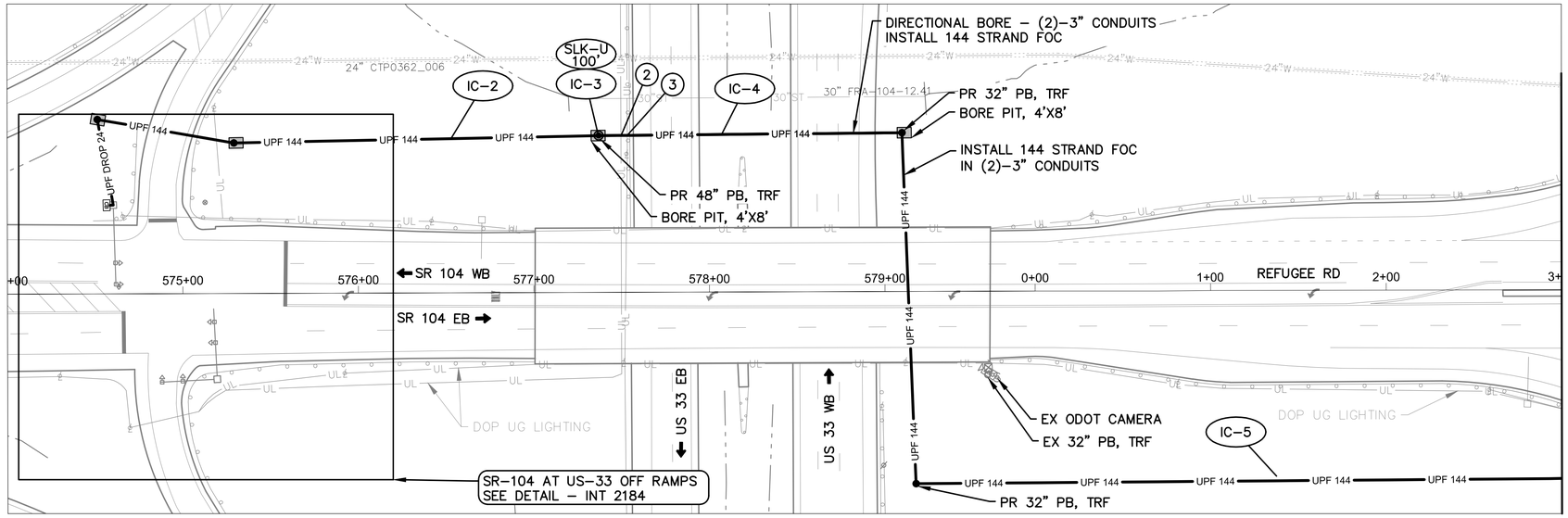
CIP: 540007-100012
PID NUMBER: 99733

SR-104 BETWEEN STA. 325+00 & 369+00

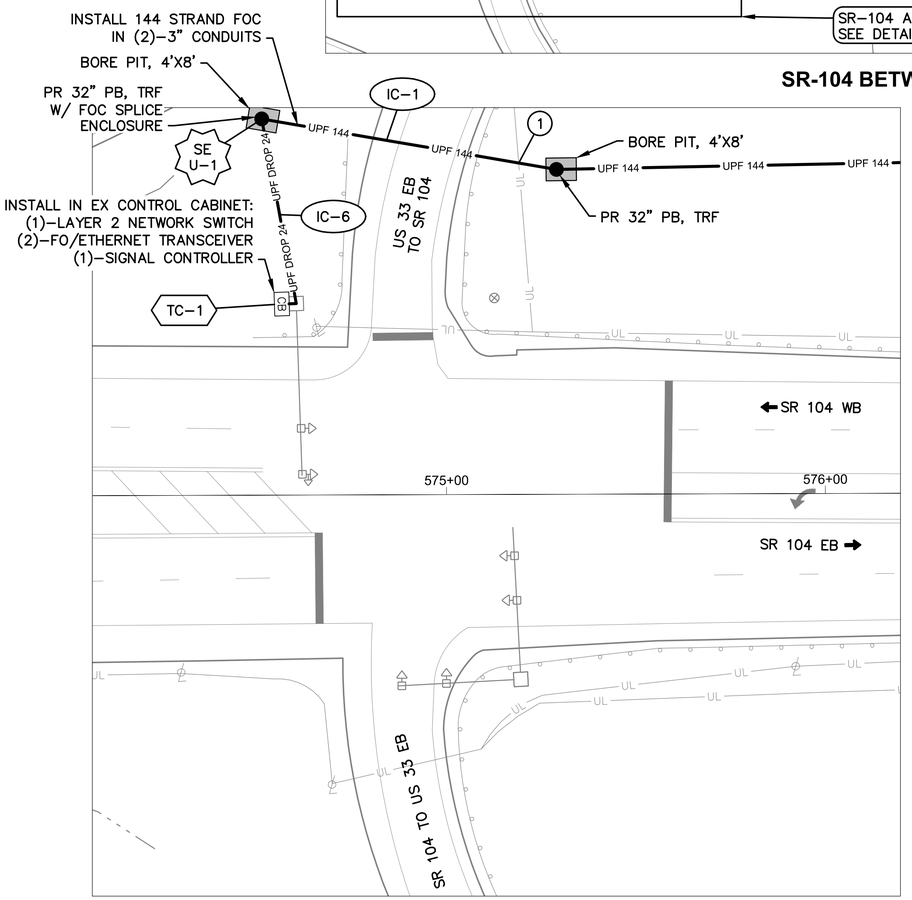
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E - FINAL SUBMITTAL

191
915

J:\Jobs\6372\ CTSS Phase E\TECHPROD\Sheets\CTSS_PhE_Trunk1_SR104_JC_QUANTITIES.dwg ~ SR-104-Q1 layout ~ last saved by: jbeans 11/05/2018 02:44pm ~ printed 11/06/2018 01:35pm PSLTS: 1 LTS: 1 CAS: 1:1



SR-104 BETWEEN STATION 574+00 AND REFUGEE RD STA 3+00



DETAIL - INT 2184

0 20 40
HORIZONTAL
SCALE IN FEET

NOTES:

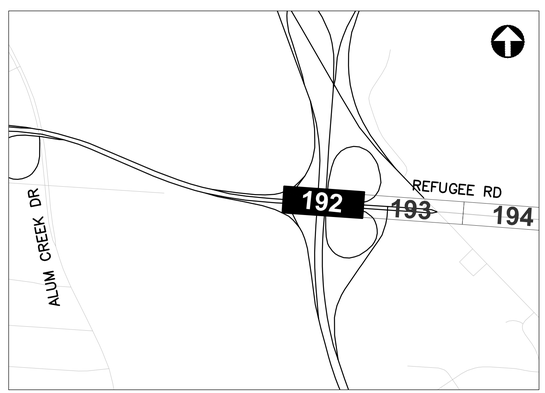
1. SEE SHEET 198 FOR QUANTITIES.
2. SEE SHEETS 630 & 840 FOR COMMUNICATION DETAILS.
3. LIMITED ACCESS RIGHT OF WAY IS LOCATED OUTSIDE OF THE EXTENT OF VIEWS SHOWN ABOVE.

(#) EXISTING UTILITY CROSSING. SEE UTILITY CROSSING INFO SHEET 17.

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CITY OF COLUMBUS UTILITY LEGEND

- [X] SEWER
- [X] WATER
- [ ] POWER
- [X] LIGHTING



REFER TO SHEET 12 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

3378-E

0 40 80
HORIZONTAL
SCALE IN FEET

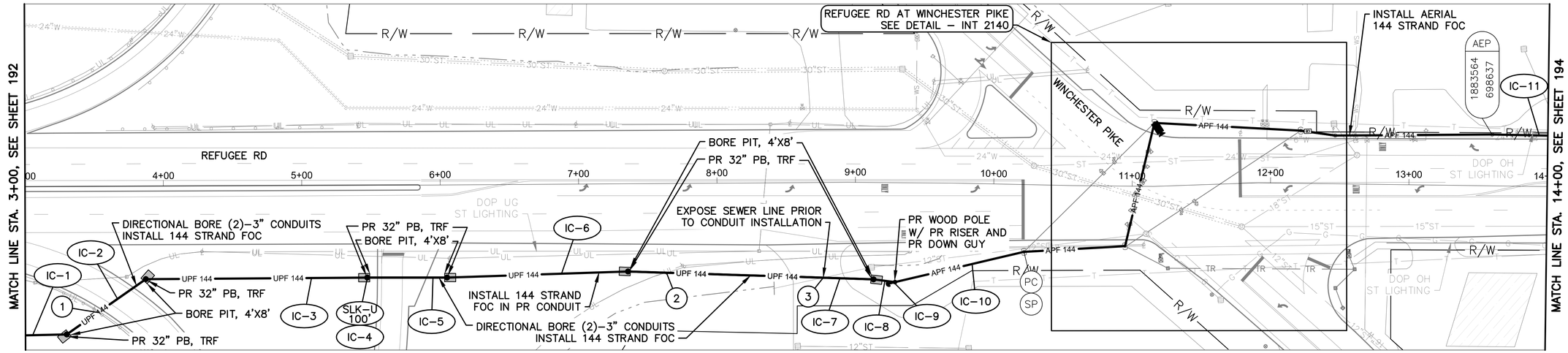
CIP: 540007–100012
PID NUMBER: 99733

INTERCONNECT PLAN
SR–104 BETWEEN STA. 574+00 AND REFUGEE RD STA. 3+00

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

192
915

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REFUGEE RD BETWEEN STATION 3+00 AND 14+00

DETAIL - INT 2140

0 20 40
HORIZONTAL
SCALE IN FEET

NOTES:

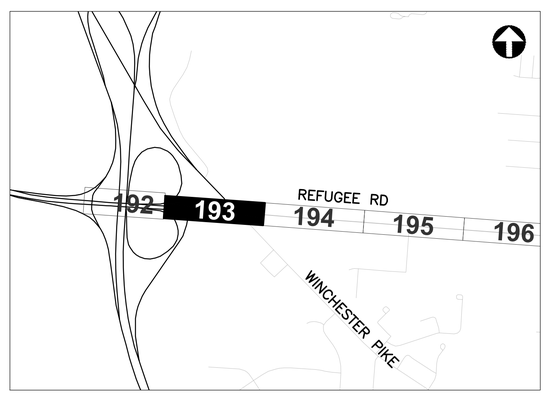
1. SEE SHEET 198 FOR QUANTITIES.
2. SEE SHEETS 630 & 841 FOR COMMUNICATION DETAILS.

(#) EXISTING UTILITY CROSSING.
SEE UTILITY CROSSING INFO
SHEET 17.

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CITY OF COLUMBUS
UTILITY LEGEND

☒	SEWER
☒	WATER
☐	POWER
☒	LIGHTING



REFER TO SHEET 13 FOR
INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

0 40 80
HORIZONTAL
SCALE IN FEET

CIP: 540007–100012
PID NUMBER: 99733

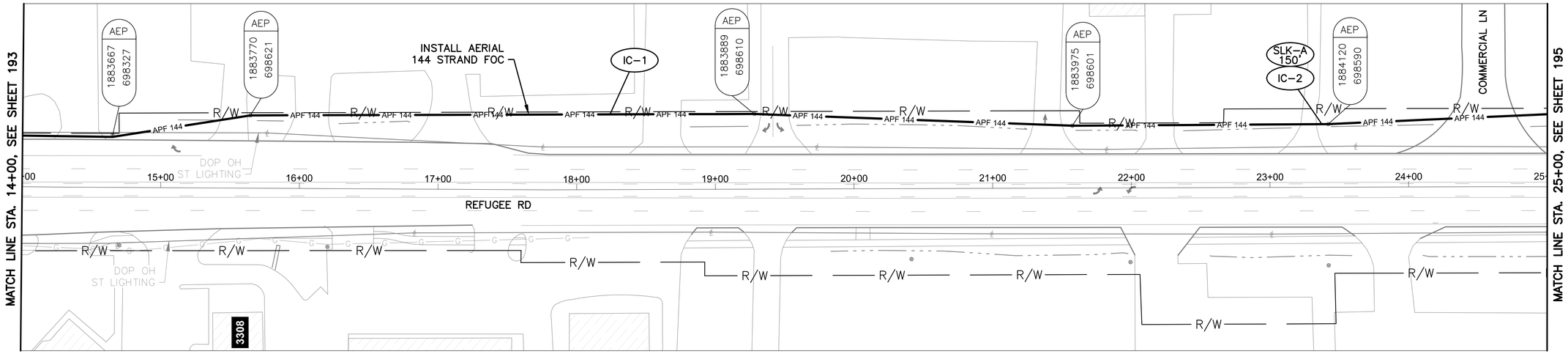
INTERCONNECT PLAN
REFUGEE RD BETWEEN STA. 3+00 AND 14+00, INT 2140

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

193
915

3378-E

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REFUGEE RD BETWEEN STATION 14+00 AND 25+00

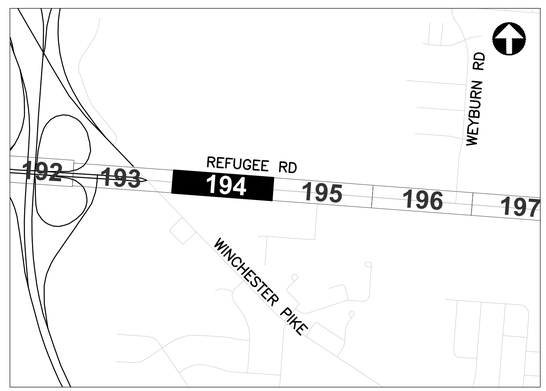
NOTES:

1. SEE SHEET 198 FOR QUANTITIES.
2. SEE SHEET 630 FOR COMMUNICATION DETAILS.

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CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☒ LIGHTING



REFER TO SHEET 13 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

3378-E

HORIZONTAL SCALE IN FEET
0 40 80

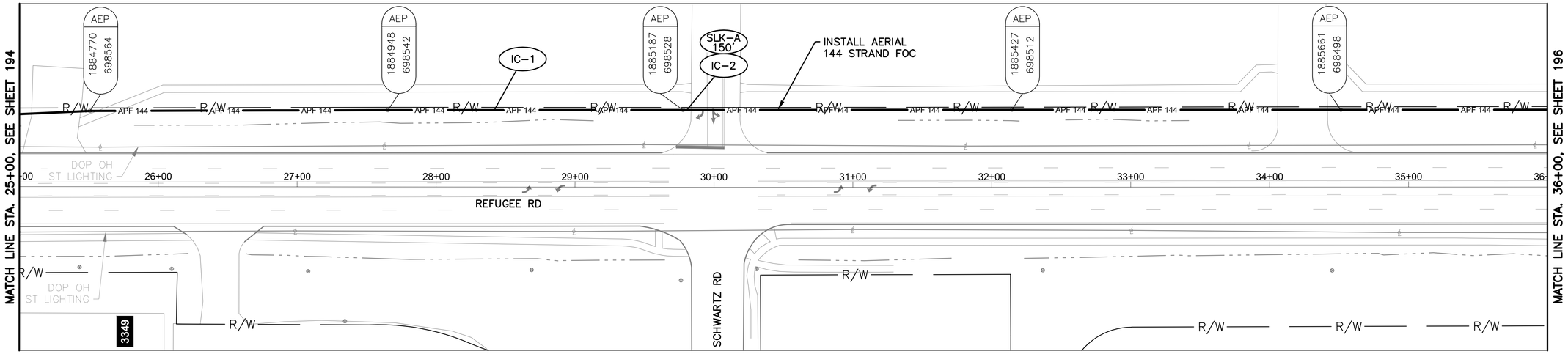
CIP: 540007-100012
PID NUMBER: 99733

INTERCONNECT PLAN
REFUGEE RD BETWEEN STA. 14+00 AND 25+00

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

194
915

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REFUGEE RD BETWEEN STATION 25+00 AND 36+00

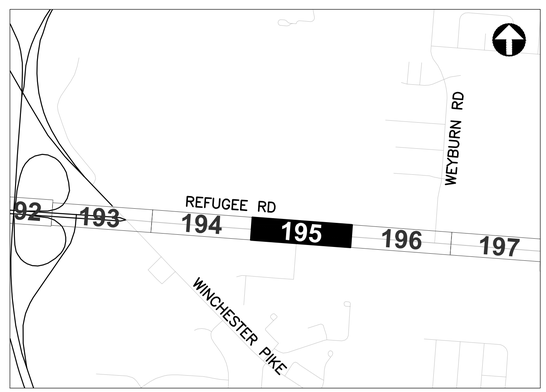
NOTES:

1. SEE SHEET 198 FOR QUANTITIES.
2. SEE SHEET 630 FOR COMMUNICATION DETAILS.

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CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☒ LIGHTING



REFER TO SHEET 13 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

3378-E

HORIZONTAL SCALE IN FEET
0 40 80

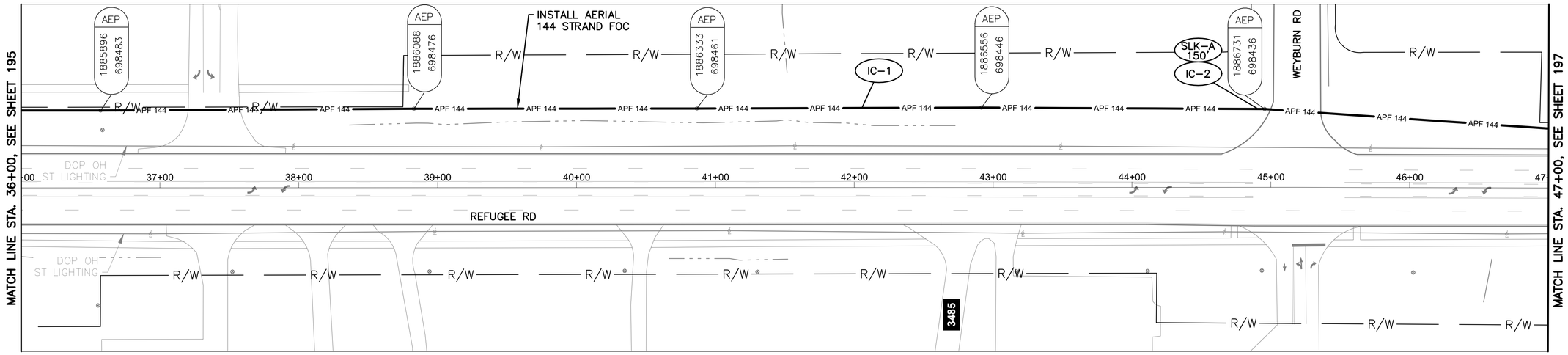
CIP: 540007-100012
PID NUMBER: 99733

INTERCONNECT PLAN
REFUGEE RD BETWEEN STA. 25+00 AND 36+00

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

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915

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REFUGEE RD BETWEEN STATION 36+00 AND 47+00

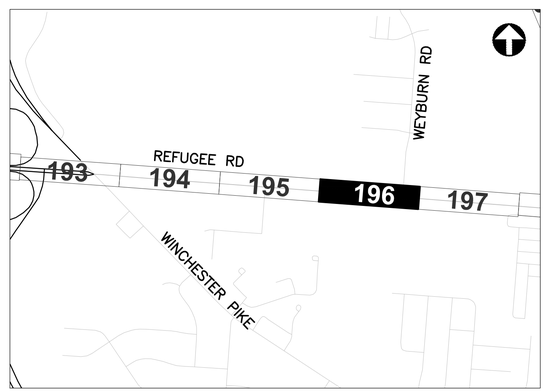
NOTES:

1. SEE SHEET 198 FOR QUANTITIES.
2. SEE SHEET 630 FOR COMMUNICATION DETAILS.

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CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☒ LIGHTING



REFER TO SHEET 13 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

3378-E

HORIZONTAL SCALE IN FEET
0 40 80

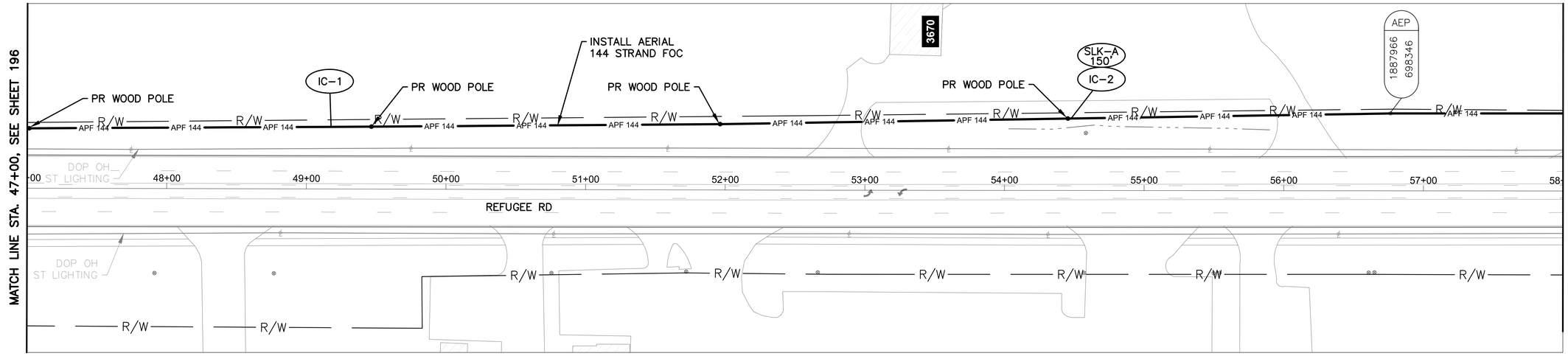
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PID NUMBER: 99733

INTERCONNECT PLAN
REFUGEE RD BETWEEN STA. 36+00 AND 47+00

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

196
915

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REFUGEE RD BETWEEN STATION 47+00 AND 58+00

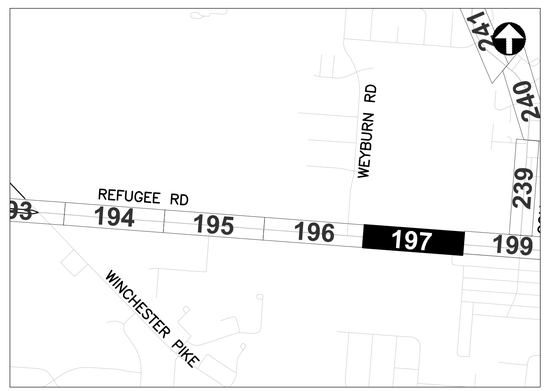
NOTES:

1. SEE SHEET 198 FOR QUANTITIES.
2. SEE SHEET 630 FOR COMMUNICATION DETAILS.

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CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☒ LIGHTING



REFER TO SHEET 13 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

3378-E

HORIZONTAL SCALE IN FEET
0 40 80

CIP: 540007-100012
PID NUMBER: 99733

INTERCONNECT PLAN
REFUGEE RD BETWEEN STA. 47+00 AND 58+00

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

197
915

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ESTIMATED QUANTITIES

SHEET NO.	REFERENCE NO.	LOCATION	STATION		202	625	625	625	625	625	632	632	632	632	632	632	632	632	632	633	633	633	
					EXISTING CONDUIT CLEANED, AS PER PLAN	CONDUIT, CONCRETE ENCASED, 2-3", 725.05, AS PER PLAN	CONDUIT, JACKED OR DRILLED, 3", AS PER PLAN	PULL BOX, CONCRETE 32", AS PER PLAN	PULL BOX, CONCRETE 48", AS PER PLAN	TRENCH, 36" DEEP, AS PER PLAN	CONDUIT RISER, 2", 725.04, AS PER PLAN	DOWN GUY	INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 144 STRAND	INTERCONNECT CABLE, MISC.: FIBER OPTIC DROP CABLE, 24 STRAND	INTERCONNECT CABLE, MISC.: FIBER OPTIC FUSION SPLICE	INTERCONNECT CABLE, MISC.: TERMINATION PANEL, 24 FIBER	INTERCONNECT, MISC.: SPLICE ENCLOSURE, CLAMSHELL, 288 SPLICE	MESSENGER WIRE, 7 STRAND, 1/4" DIAMETER WITH ACCESSORIES, AS PER PLAN	SIGNALIZATION, MISC.: CCTV COMPOSITE CABLE	SIGNALIZATION, MISC.: CCTV IP-CAMERA SYSTEM	WOOD POLE, CLASS 5, 35 FT	CONTROLLER ITEM, MISC.: FIBER OPTIC ETHERNET TRANSCEIVER, SHORT RANGE	CONTROLLER ITEM, MISC.: LAYER 2 ETHERNET SWITCH	CONTROLLER UNIT, TYPE TS2/A2, AS PER PLAN	
			FROM	TO	FT	FT	FT	EACH	EACH	FT	EACH	EACH	FT	FT	EACH	EACH	EACH	FT	FT	EACH	EACH	EACH	EACH	EACH	
STATE ROUTE 104 / REFUGEE RD. BETWEEN STA. 574+00 AND 3+00, INT 2184																									
192	SE U-1	SR-104	575+49, 99' LT					1					75	125	12		1								
192	IC-1	SR-104	575+49, 99' LT	575+29, 86' LT			158	1					79												
192	IC-6	SR-104	575+49, 99' LT	574+58, 41' LT		51				51				51											
192	TC-1	SR-104	574+58, 41' LT											10		1						2	1	1	
192	IC-2	SR-104	575+29, 86' LT	577+37, 89' LT		208				208			208												
192	IC-3	SR-104	577+37, 89' LT						1				100												
192	IC-4	SR-104	577+37, 89' LT	579+10, 90' LT			346	1					173												
192	IC-5	SR-104/REFUGEE RD	579+10, 90' LT	3+00, 103' RT		568		1		568			568												
REFUGEE RD. BETWEEN STA. 3+00 AND 14+00, INT 2140																									
193	IC-1	REFUGEE RD	3+00, 103' RT	3+30, 108' RT		30		1		30			30												
193	IC-2	REFUGEE RD	3+30, 108' RT	3+87, 67' RT			140						70												
193	IC-3	REFUGEE RD	3+87, 67' RT	5+47, 67' RT		160		1		160			160												
193	IC-4	REFUGEE RD	5+47, 67' RT					1					100												
193	IC-5	REFUGEE RD	5+47, 67' RT	6+04, 67' RT			116						58												
193	IC-6	REFUGEE RD	6+04, 67' RT	7+35, 63' RT		131		2		131			131												
193	IC-7	REFUGEE RD	7+35, 63' RT	9+13, 70' RT			354						177												
193	IC-8	REFUGEE RD	9+13, 70' RT	9+29, 72' RT		16		1		16			16												
193	IC-10	REFUGEE RD	9+29, 72' RT	13+59, 37' LT									512					512							
193	IC-9	REFUGEE RD	9+29, 72' RT								1	1	35								1				
193	CTV-1	REFUGEE RD	11+16, 46' LT																	1					
193	EC-1	REFUGEE RD	11+16, 46' LT	12+21, 38' LT															216						
193	IC-13	REFUGEE RD	12+21, 38' LT								1			35											
193	EC-2	REFUGEE RD	12+21, 38' LT																70						
193	IC-14	REFUGEE RD	12+21, 38' LT	12+26, 38' LT	5									5											
193	EC-3	REFUGEE RD	12+21, 38' LT	12+26, 38' LT															10						
193	IC-12	REFUGEE RD	12+21, 38' LT	12+46, 35' LT										25											
193	TC-1	REFUGEE RD	12+26, 38' LT											10		1			20			2	1	1	
193	SE A-1	REFUGEE RD	12+46, 35' LT										150	125	24		1								
193	IC-11	REFUGEE RD	13+59, 37' LT	14+00, 39' LT									41					41							
REFUGEE RD. BETWEEN STA. 14+00 AND 25+00																									
194	IC-1	REFUGEE RD	14+00, 39' LT	25+00, 52' LT									1,118					1,118							
194	IC-2	REFUGEE RD	23+37, 45' LT										150												
REFUGEE RD. BETWEEN STA. 25+00 AND 36+00																									
195	IC-1	REFUGEE RD	25+00, 52' LT	36+00, 56' LT									1,117					1,117							
195	IC-2	REFUGEE RD	29+80, 56' LT										150												
REFUGEE RD. BETWEEN STA. 36+00 AND 47+00																									
196	IC-1	REFUGEE RD	36+00, 56' LT	47+00, 56' LT									1,117					1,117							
196	IC-2	REFUGEE RD	44+91, 56' LT										150												
REFUGEE RD. BETWEEN STA. 47+00 AND 58+00																									
197	IC-1	REFUGEE RD	47+00, 56' LT	58+00, 56' LT									1,117					1,117			3				
197	IC-2	REFUGEE RD	54+48, 52' LT										150												
SHEET TOTAL					5	1,164	1,114	10	1	1,164	2	1	7,752	386	36	2	2	5,022	316	1	4	4	2	2	-

AERIAL SAG: 1.5% AERIAL SAG IS INCLUDED IN THE QUANTITIES FOR ANY AERIAL FIBER OR CABLE ITEMS.

3378-E

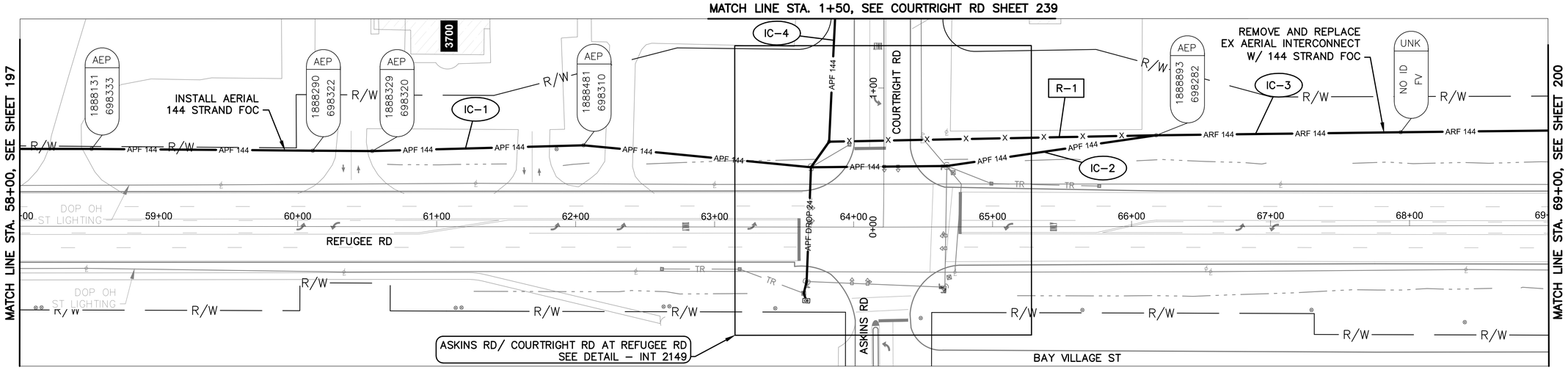
CIP: 540007-100012
PID NUMBER: 99733

STATE ROUTE 104/REFUGEE RD BETWEEN STA. 574+00 & 58+00
INTS 2184 AND 2140

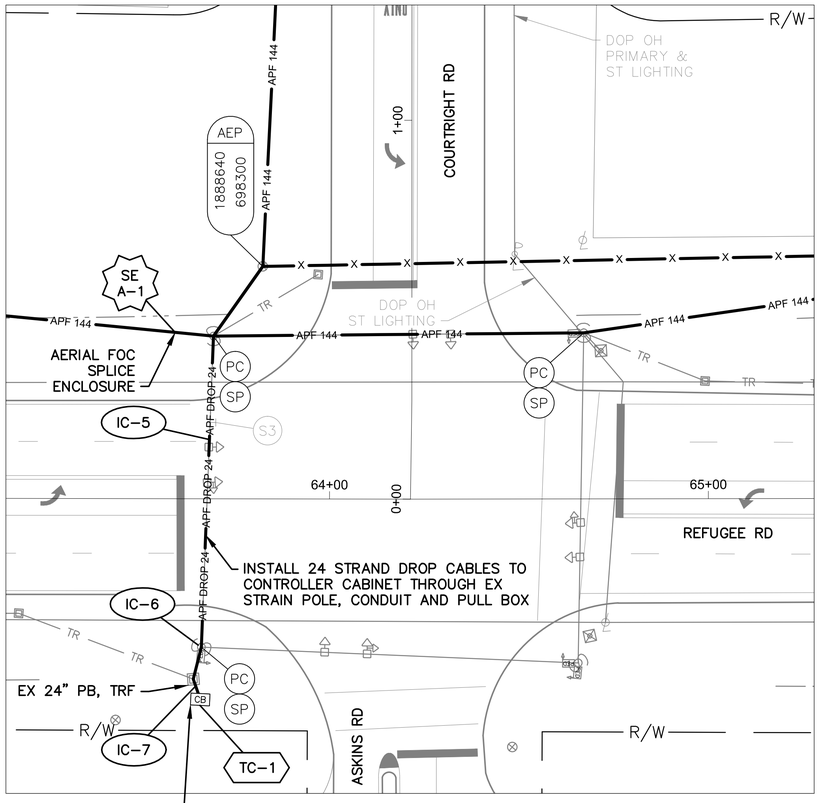
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

198
915

J:\Jobs\6372 CTSS Phase E\TECHPROD\Sheets\CTSS_PhE_Trunk1_REFUGEE_IC_QUANTITIES.dwg ~ REFUGEE RD-Q1 layout ~ last saved by: gburch 09/11/2018 08:56am ~ printed 09/18/2018 08:51am PSLTS: 1 LTS: 1 CAS: 1:1

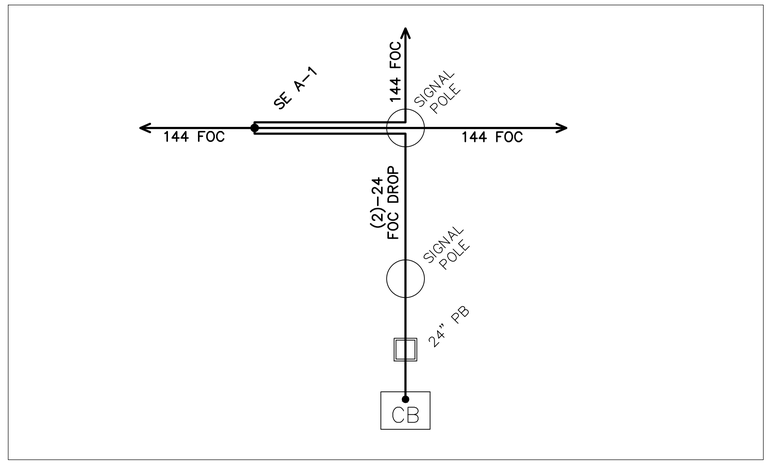


REFUGEE RD BETWEEN STATION 58+00 AND 69+00



DETAIL - INT 2149

0 20 40
HORIZONTAL SCALE IN FEET



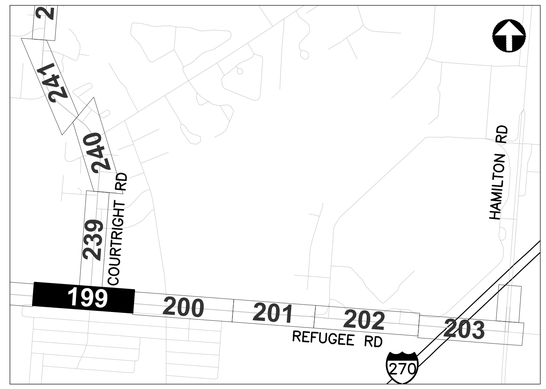
CABLE SCHEMATIC - INT 2149
NOT TO SCALE

NOTES:

1. SEE SHEET 204 FOR QUANTITIES.
2. SEE SHEETS 630 & 842 FOR COMMUNICATION DETAILS.

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CITY OF COLUMBUS UTILITY LEGEND
- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☒ LIGHTING



REFER TO SHEET 13 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

0 40 80
HORIZONTAL SCALE IN FEET

CIP: 540007–100012
PID NUMBER: 99733

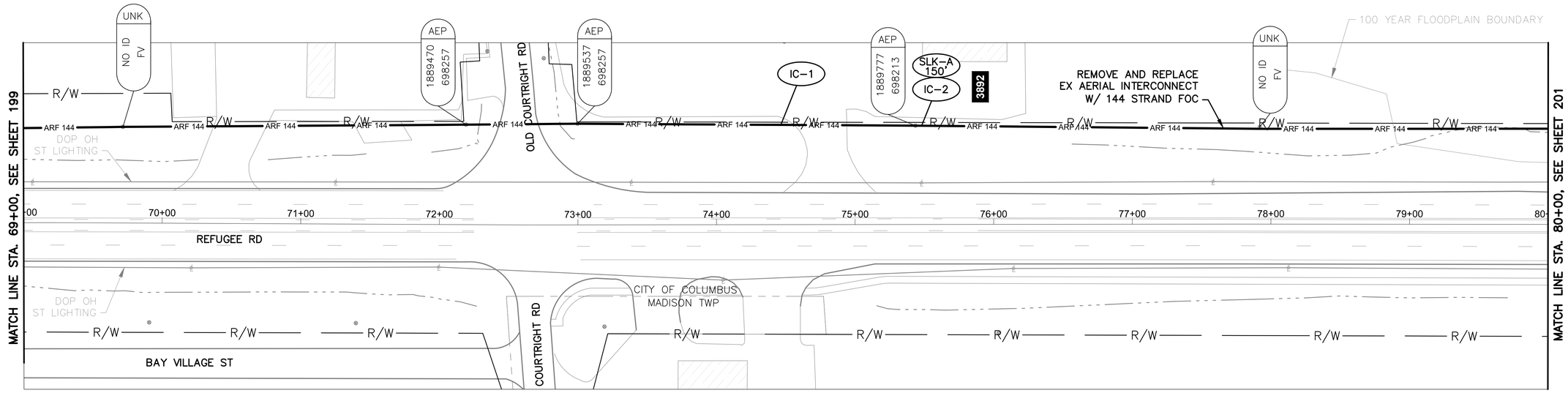
INTERCONNECT PLAN
REFUGEE RD BETWEEN STA. 58+00 AND 69+00, INT 2149

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

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915

3378-E

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REFUGEE RD BETWEEN STATION 69+00 AND 80+00

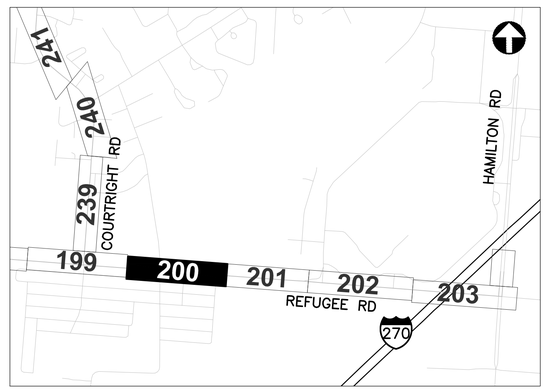
NOTES:

1. SEE SHEET 204 FOR QUANTITIES.
2. SEE SHEET 630 FOR COMMUNICATION DETAILS.

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CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☒ LIGHTING



REFER TO SHEET 13 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

3378-E

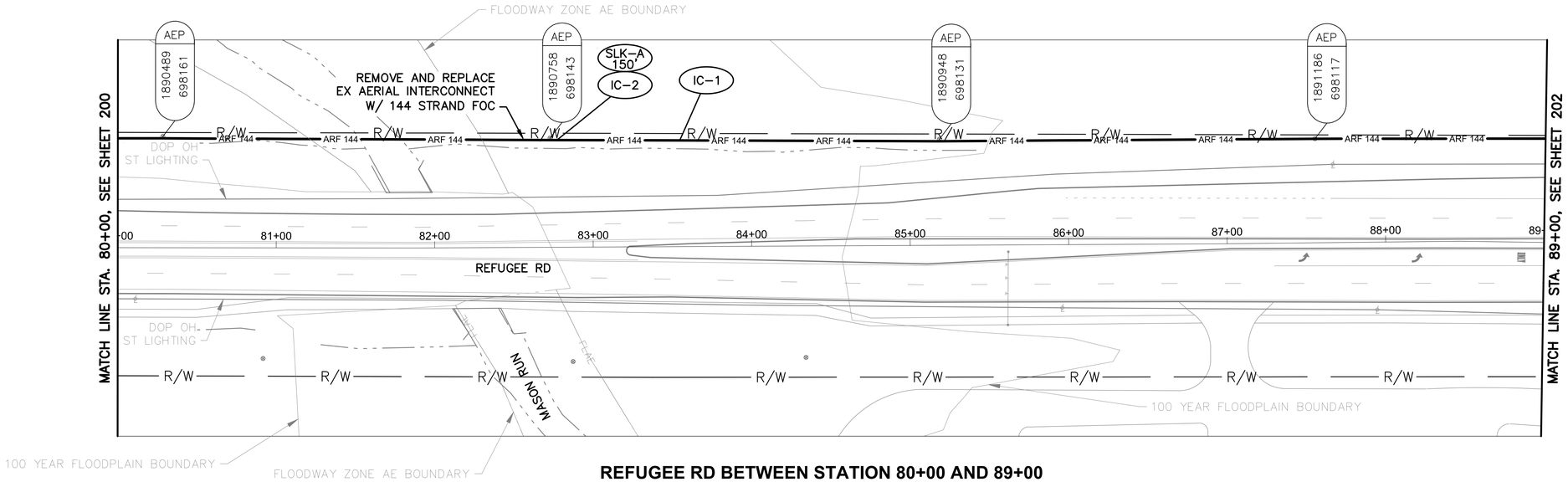
CIP: 540007-100012
PID NUMBER: 99733

INTERCONNECT PLAN
REFUGEE RD BETWEEN STA. 69+00 AND 80+00, INT 2149

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

200
915

J:\Jobs\63721 ctss phase e\TECHPROD\Sheets\CTSS_PhE_Trunk1_REFUGEE_INTERCONNECT.dwg – REFUGEE-7 layout ~ last saved by: gburch 09/11/2018 01:13pm ~ printed 09/11/2018 08:23pm PSLTS: 1 LTS: 1 CAS: 1:1



REFUGEE RD BETWEEN STATION 80+00 AND 89+00

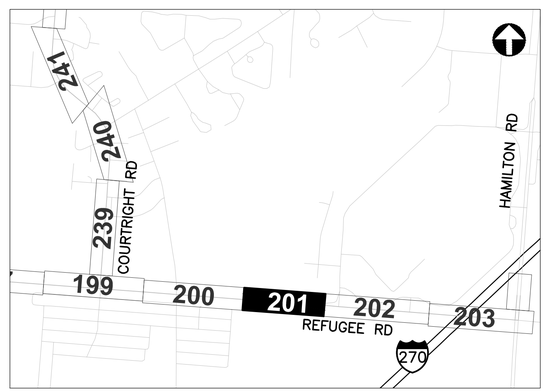
NOTES:

1. SEE SHEET 204 FOR QUANTITIES.
2. SEE SHEET 630 FOR COMMUNICATION DETAILS.

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CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☒ LIGHTING



REFER TO SHEET 13 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

3378-E

HORIZONTAL SCALE IN FEET
0 40 80

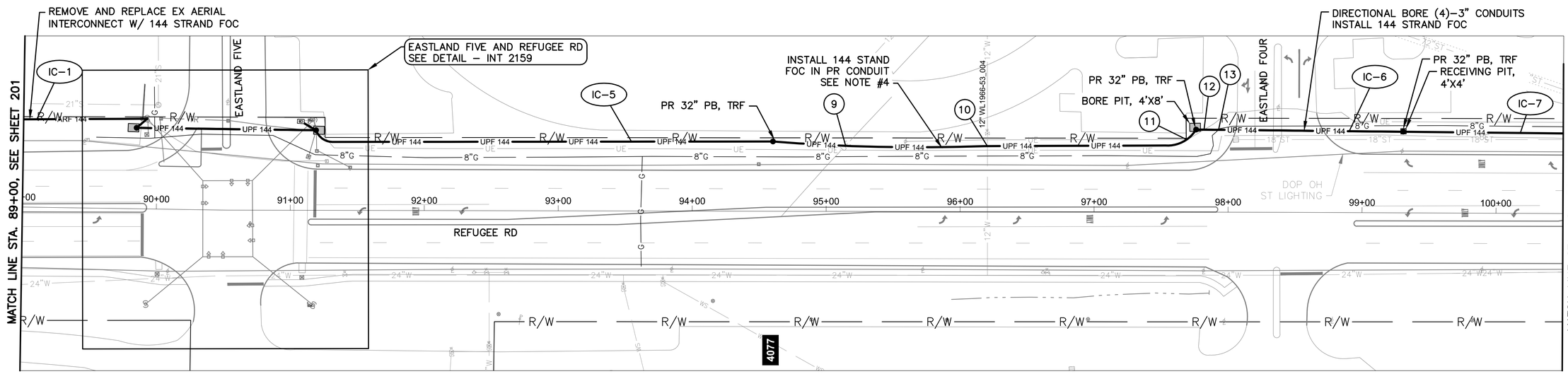
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PID NUMBER: 99733

INTERCONNECT PLAN
REFUGEE RD BETWEEN STA. 80+00 AND 89+00

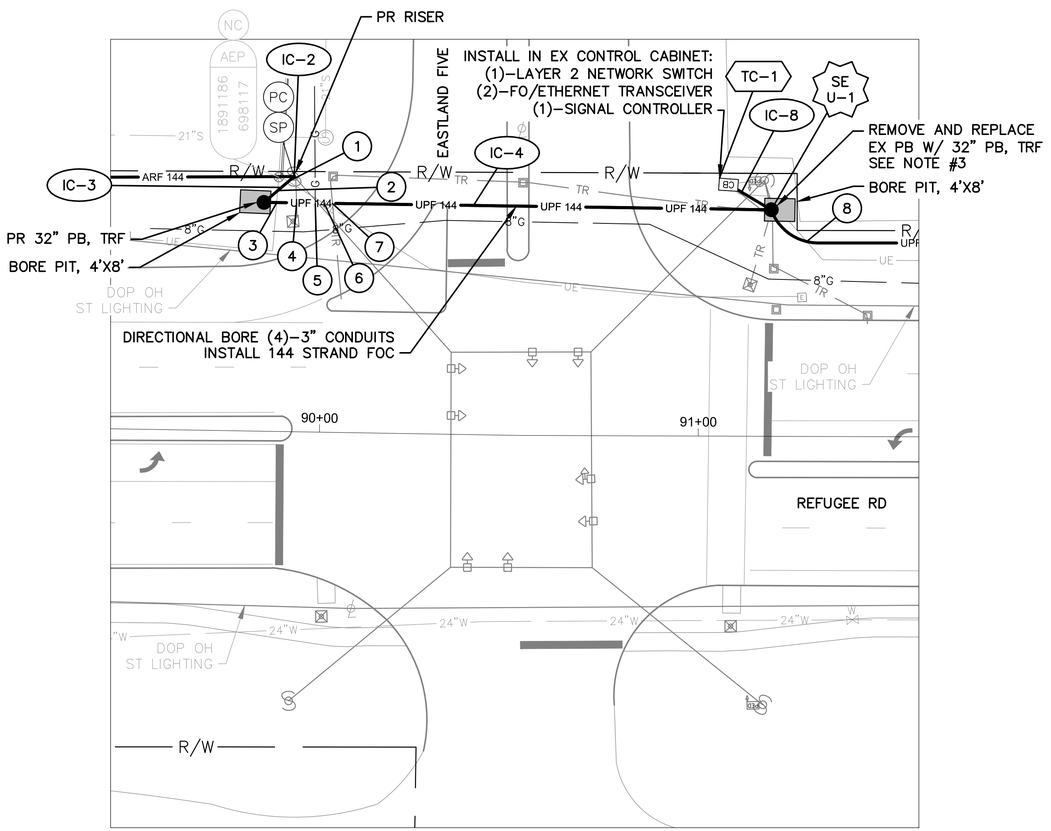
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

201
915

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REFUGEE RD BETWEEN STATION 89+00 AND 100+50



DETAIL - INT 2159

0 20 40
HORIZONTAL SCALE IN FEET

NOTES:

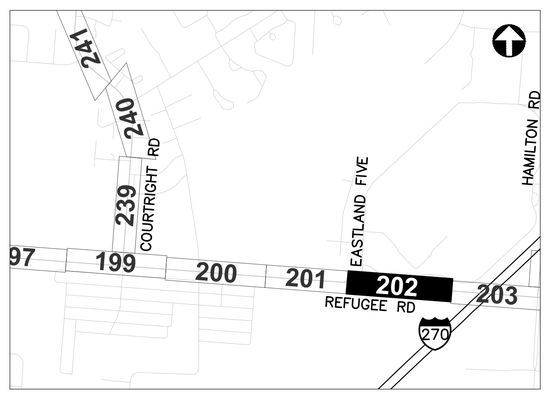
1. SEE SHEET 204 FOR QUANTITIES.
2. SEE SHEETS 630 & 848 FOR COMMUNICATION DETAILS.
3. BORE PIT WITHIN FIVE TO EIGHT FEET OF A STRAIN POLE WILL REQUIRE A TEMPORARY STRAIN POLE SUPPORT.
4. PROPOSED TRAFFIC CONDUIT FOLLOWS EXISTING UNUSABLE TRAFFIC CONDUIT PATH BETWEEN APPROX. STA 91+00 TO 98+00.

(#) EXISTING UTILITY CROSSING. SEE UTILITY CROSSING INFO SHEET 17.

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CITY OF COLUMBUS UTILITY LEGEND

☒	SEWER
☒	WATER
☐	POWER
☒	LIGHTING



REFER TO SHEET 13 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

0 40 80
HORIZONTAL SCALE IN FEET

CIP: 540007–100012
PID NUMBER: 99733

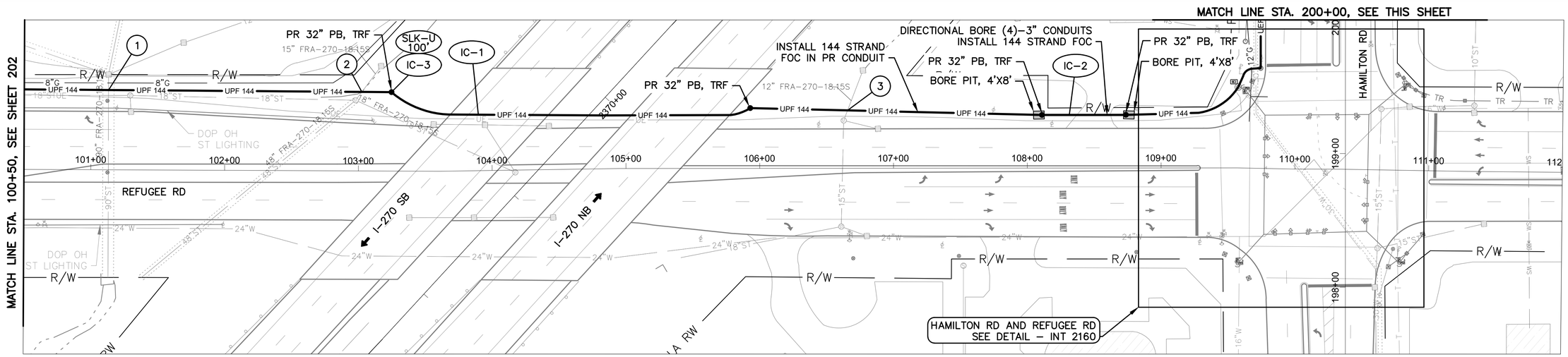
INTERCONNECT PLAN
REFUGEE RD BETWEEN STA. 89+00 AND 100+50, INT 2159

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

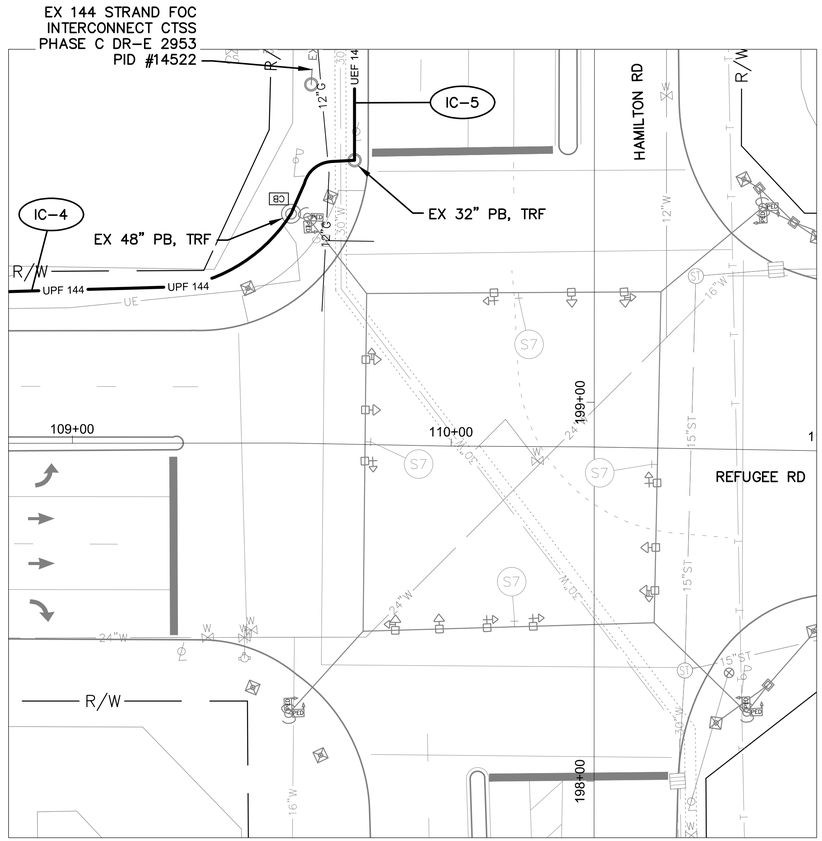
3378-E

202
915

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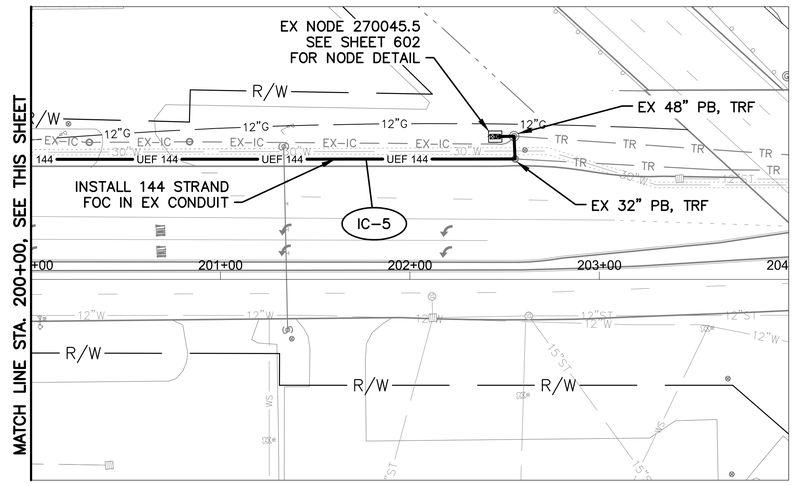


REFUGEE RD BETWEEN STATION 100+50 AND 112+00



DETAIL - INT 2160

0 20 40
HORIZONTAL SCALE IN FEET



HAMILTON RD BETWEEN STATION 200+00 AND 204+00

NOTES:

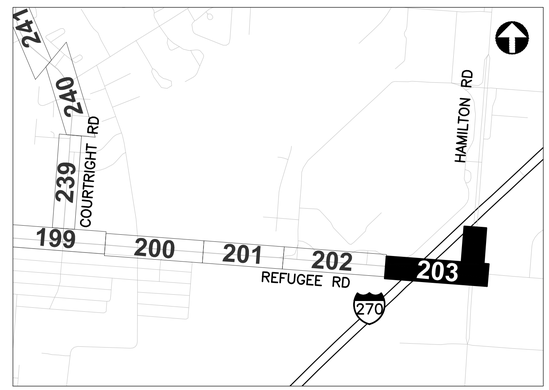
1. SEE SHEET 204 FOR QUANTITIES.
2. SEE SHEET 630 FOR COMMUNICATION DETAILS.

(#) EXISTING UTILITY CROSSING. SEE UTILITY CROSSING INFO SHEET 17.

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CITY OF COLUMBUS UTILITY LEGEND

☒	SEWER
☒	WATER
☐	POWER
☒	LIGHTING



REFER TO SHEET 13 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

3378-E

HORIZONTAL SCALE IN FEET
0 40 80

CIP: 540007-100012
PID NUMBER: 99733

INTERCONNECT PLAN REFUGEE RD BETWEEN STA. 100+50 AND 112+00
HAMILTON RD BETWEEN STA. 200+00 AND 204+00, INT 2160

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

203
915

J:\Jobs\63721 ctss phase e\TECHPROD\Sheets\CTSS_PhE_Trunk1_REFUGEE_INTERCONNECT.dwg ~ REFUGEE-10 layout ~ last saved by: gburch 09/11/2018 01:13pm ~ printed 09/11/2018 08:30pm PSLTS: 1 LTS: 1 CAS: 1:1

ESTIMATED QUANTITIES

SHEET NO.	REFERENCE NO.	LOCATION	STATION		202	625	625	625	625	625	632	632	632	632	632	632	632	633	633	633			
					EXISTING CONDUIT CLEANED, AS PER PLAN	CONDUIT, CONCRETE ENCASED, 4-3", 725.05, AS PER PLAN	CONDUIT, JACKED OR DRILLED, 3", AS PER PLAN	PULL BOX, CONCRETE 32", AS PER PLAN	PULL BOX, REMOVED, AS PER PLAN	TRENCH, 36" DEEP, AS PER PLAN	CONDUIT RISER, 2", 725.04, AS PER PLAN	INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 144 STRAND	INTERCONNECT CABLE, MISC.: FIBER OPTIC DROP CABLE, 24 STRAND	INTERCONNECT CABLE, MISC.: FIBER OPTIC FUSION SPLICE	INTERCONNECT CABLE, MISC.: REMOVE EXISTING OVERHEAD INTERCONNECT	INTERCONNECT CABLE, MISC.: TERMINATION PANEL, 24 FIBER	INTERCONNECT, MISC.: SPLICE ENCLOSURE, CLAMSHELL, 288 SPLICE	MESSENGER WIRE, 7 STRAND, 1/4" DIAMETER WITH ACCESSORIES, AS PER PLAN	CONTROLLER ITEM, MISC.: FIBER OPTIC ETHERNET TRANSCEIVER, SHORT RANGE	CONTROLLER ITEM, MISC.: LAYER 2 ETHERNET SWITCH	CONTROLLER UNIT, TYPE TS2/A2, AS PER PLAN			
			FROM	TO	FT	FT	FT	EACH	EACH	FT	EACH	FT	FT	EACH	FT	EACH	EACH	FT	EACH	EACH	EACH			
REFUGEE RD. BETWEEN STA. 58+00 AND 69+00, INT 2149																								
199	IC-1	REFUGEE RD	58+00, 56' LT	63+69, 43' LT								579						579						
199	TC-1	REFUGEE RD	63+66, 53' RT										20			2			2	1	1			
199	IC-7	REFUGEE RD	63+66, 53' RT	63+66, 39' RT	14								28											
199	IC-6	REFUGEE RD	63+66, 39' RT										70											
199	IC-5	REFUGEE RD	63+66, 39' RT	63+69, 43' LT									166					83						
199	SE A-1	REFUGEE RD	63+69, 43' LT									225	250	228			1							
199	IC-2	REFUGEE RD	63+69, 43' LT	66+18, 66' LT								254						254						
199	IC-4	REFUGEE RD	63+69, 43' LT	63+86, 149' LT								113						113						
199	R-1	REFUGEE RD	63+69, 43' LT	66+18, 66' LT											235									
199	IC-3	REFUGEE RD	66+18, 66' LT	69+00, 68' LT								286			282			286						
REFUGEE RD. BETWEEN STA. 69+00 AND 80+00																								
200	IC-1	REFUGEE RD	69+00, 68' LT	80+00, 70' LT								1,117			1,100			1,117						
200	IC-2	REFUGEE RD	75+48, 71' LT									150												
REFUGEE RD. BETWEEN STA. 80+00 AND 89+00																								
201	IC-1	REFUGEE RD	80+00, 70' LT	89+00, 66' LT								915			901			915						
201	IC-2	REFUGEE RD	82+77, 70' LT									150												
REFUGEE RD. BETWEEN STA. 89+00 AND 100+50, INT 2159																								
202	IC-1	REFUGEE RD	89+00, 66' LT	89+92, 67' LT								92			91			92						
202	IC-3	REFUGEE RD	89+84, 60' LT	89+92, 67' LT		11				11		11												
202	IC-4	REFUGEE RD	89+84, 60' LT	91+15, 56' LT			636	1				134												
202	IC-2	REFUGEE RD	89+92, 67' LT								1	35												
202	TC-1	REFUGEE RD	91+07, 66' LT										10			1			2	1	1			
202	IC-8	REFUGEE RD	91+07, 66' LT	91+15, 56' LT	13								13											
202	SE U-1	REFUGEE RD	91+15, 56' LT					1	1			150	125	24			1							
202	IC-5	REFUGEE RD	91+15, 56' LT	97+76, 58' LT		662				662		662												
202	IC-6	REFUGEE RD	97+76, 58' LT	99+30, 62' LT			616	2				154												
202	IC-7	REFUGEE RD	99+30, 62' LT	100+50, 59' LT		120				120		120												
REFUGEE RD. BETWEEN STA. 100+50 AND 112+00, INT 2160																								
203	IC-1	REFUGEE RD	100+50, 59' LT	108+11, 49' LT		985		1		985		985												
203	IC-3	REFUGEE RD	103+25, 61' LT					1				100												
203	IC-2	REFUGEE RD	108+11, 49' LT	108+74, 40' LT			252	2				63												
203	IC-4	REFUGEE RD	108+74, 40' LT	109+57, 61' LT		91				91		91												
203	IC-5	REFUGEE RD/HAMILTON RD	109+57, 61' LT	202+55, 76' LT	328							328												
SHEET TOTAL					355	1,869	1,504	8	1	1,869	1	6,714	682	252	2,609	3	2	3,439	4	2	2	-	-	-

AERIAL SAG: 1.5% AERIAL SAG IS INCLUDED IN THE QUANTITIES FOR ANY AERIAL FIBER OR CABLE ITEMS.

3378-E

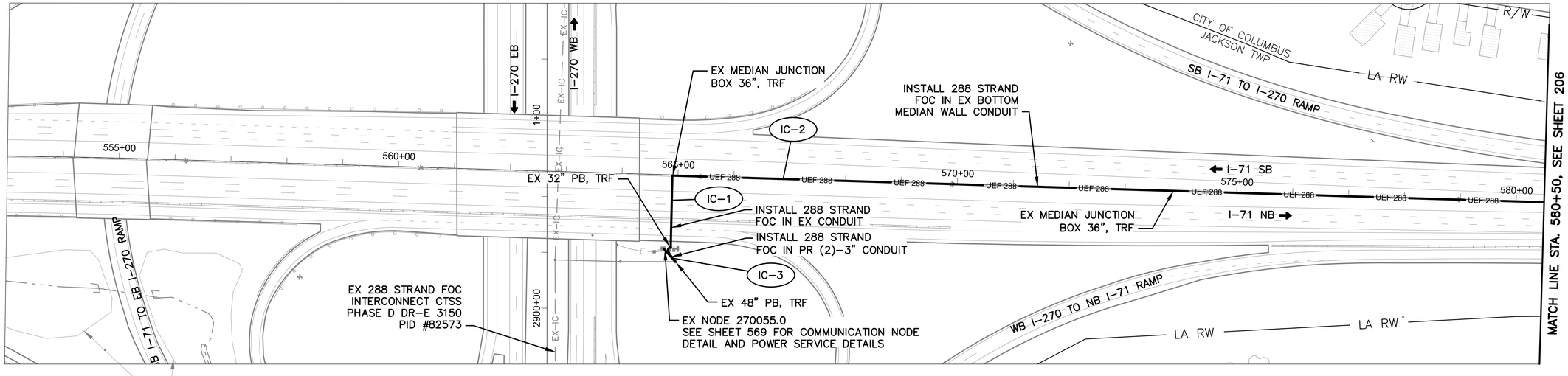
CIP: 540007-100012
PID NUMBER: 99733

REFUGEE RD BETWEEN STA. 58+00 & 112+00
INTS 2149, 2159, 2160

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

204
915

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I-71 BETWEEN STATION 553+00 AND 580+50

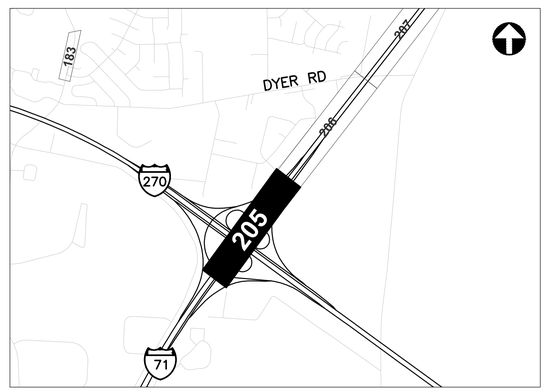
NOTES:

1. SEE SHEET 213 FOR QUANTITIES.
2. SEE SHEET 629 FOR COMMUNICATION DETAILS.
3. LIMITED ACCESS RIGHT OF WAY IS LOCATED OUTSIDE OF THE EXTENT OF VIEW SHOWN ABOVE.

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CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 12 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

3378-E

HORIZONTAL SCALE IN FEET
0 100 200

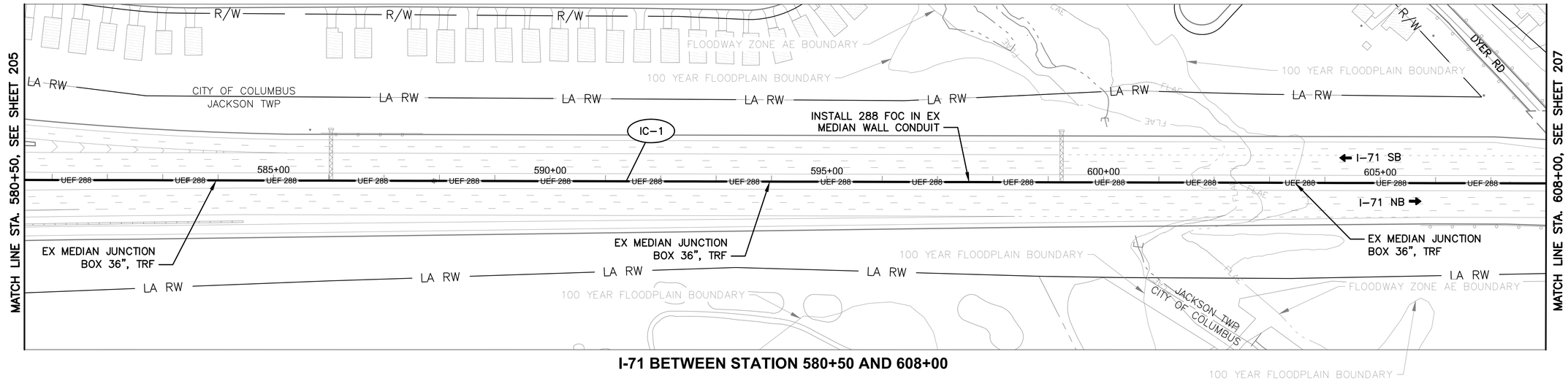
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PID NUMBER: 99733

INTERCONNECT PLAN
I-71 BETWEEN STA. 553+00 AND 580+50

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E - FINAL SUBMITTAL

205
915

J:\Jobs\63721 ctss phase e\TECHPROD\Sheets\CTSS_PhE_Trunk1_J-71_INTERCONNECT.dwg ~ I-71-3 layout ~ last saved by gburch 09/04/2018 02:43pm ~ printed 09/11/2018 08:33am PSLTS: 1 LTS: 1 CAS: 1:1



I-71 BETWEEN STATION 580+50 AND 608+00

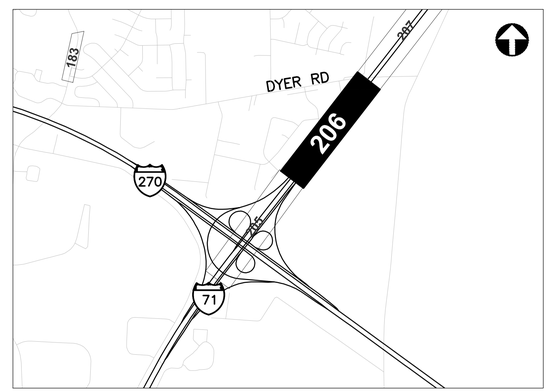
NOTES:

1. SEE SHEET 213 FOR QUANTITIES.
2. SEE SHEET 629 FOR COMMUNICATION DETAILS.

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CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 12 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

3378-E

HORIZONTAL SCALE IN FEET
0 100 200

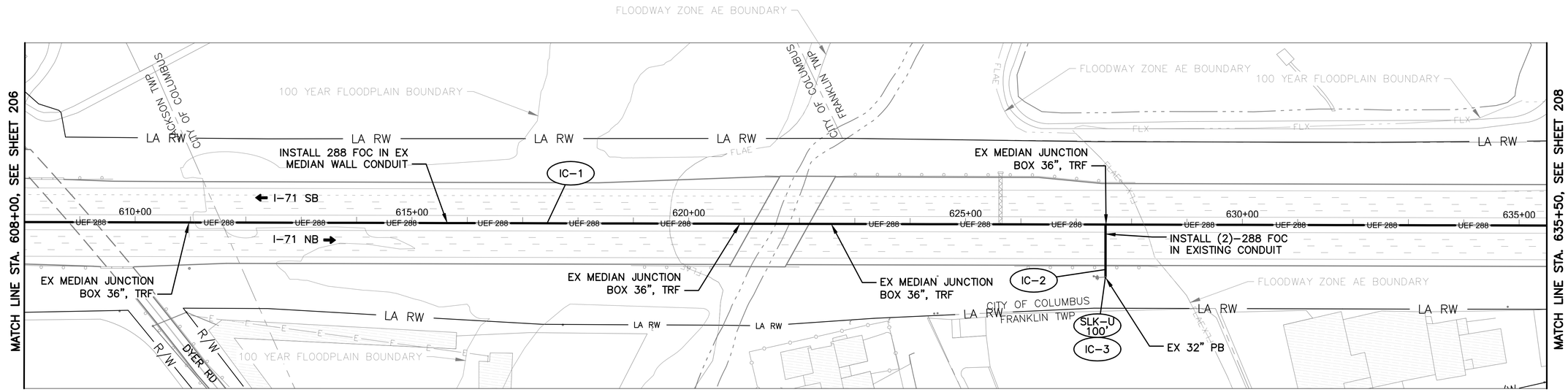
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PID NUMBER: 99733

INTERCONNECT PLAN
I-71 BETWEEN STA. 580+50 AND 608+00

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E - FINAL SUBMITTAL

206
915

J:\Jobs\63721 ctss phase e\TECHPROD\Sheets\CTSS_PhE_Trunk1_J-71_INTERCONNECT.dwg ~ I-71-4 layout ~ last saved by gburch 09/04/2018 02:43pm ~ printed 09/11/2018 08:34pm PSLTS: 1 LTS: 1 CAS: 1:1



I-71 BETWEEN STATION 608+00 AND 635+50

NOTES:

1. SEE SHEET 213 FOR QUANTITIES.
2. SEE SHEET 629 FOR COMMUNICATION DETAILS.

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CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 12 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

HORIZONTAL SCALE IN FEET
0 100 200

CIP: 540007-100012
PID NUMBER: 99733

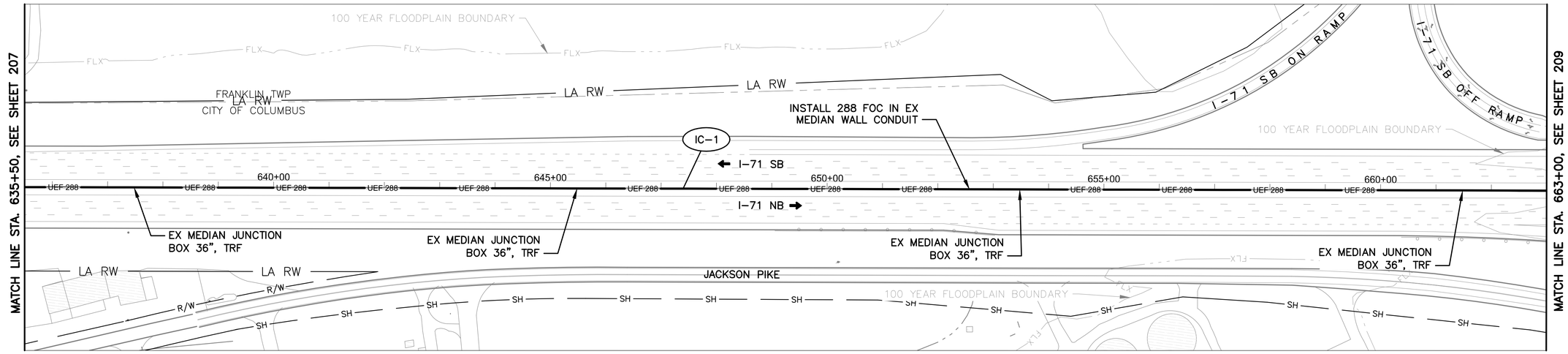
INTERCONNECT PLAN
I-71 BETWEEN STA. 608+00 AND 635+50

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

3378-E

207
915

J:\Jobs\63721 ctss phase e\TECHPROD\Sheets\CTSS_PhE_Trunk1_J-71_INTERCONNECT.dwg – I-71-5 layout ~ last saved by gburch 09/04/2018 02:43pm ~ printed 09/11/2018 08:36pm PSLTS: 1 LTS: 1 CAS: 1:1



I-71 BETWEEN STATION 635+50 AND 663+00

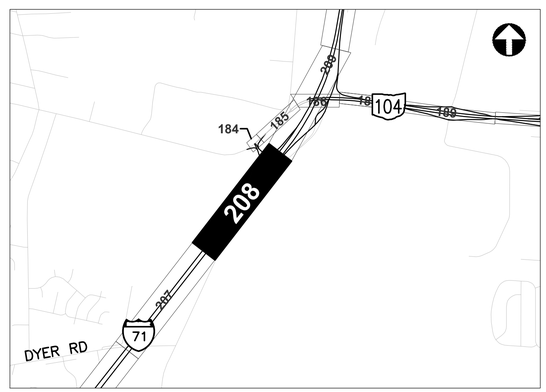
NOTES:

1. SEE SHEET 213 FOR QUANTITIES.
2. SEE SHEET 629 FOR COMMUNICATION DETAILS.

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CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 12 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

3378-E

HORIZONTAL SCALE IN FEET
0 100 200

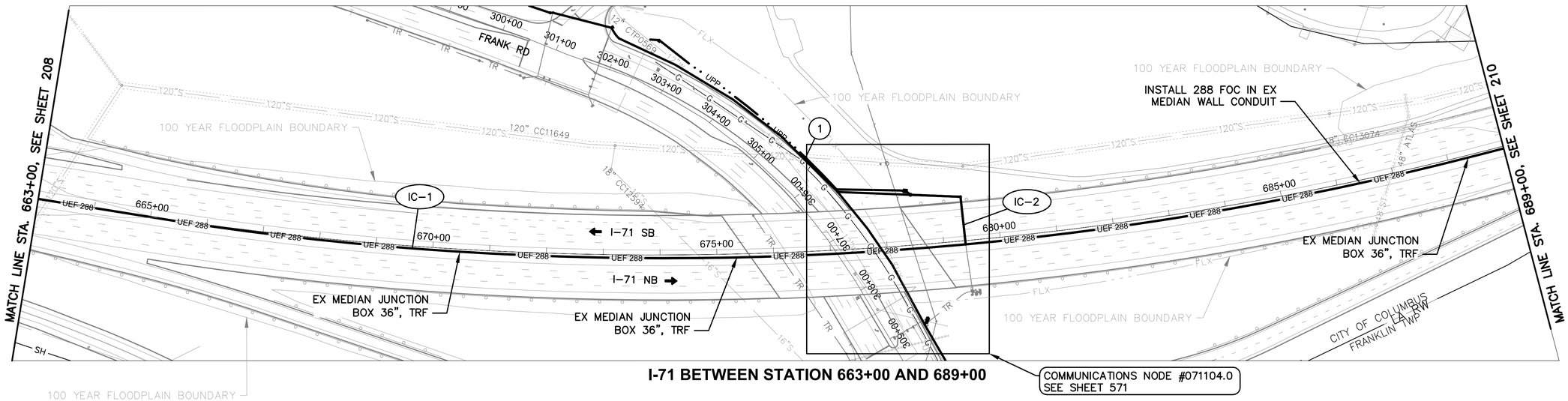
CIP: 540007-100012
PID NUMBER: 99733

INTERCONNECT PLAN
I-71 BETWEEN STA. 635+50 AND 663+00

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E - FINAL SUBMITTAL

208
915

J:\Jobs\63721 ctss phase e\TECHPROD\Sheets\CTSS_PhE_Trunk1_I-71_INTERCONNECT.dwg - I-71-6 layout ~ last saved by gburch 09/04/2018 02:43pm ~ printed 09/11/2018 08:37pm PSLTS: 1 LTS: 1 CAS: 1:1



I-71 BETWEEN STATION 663+00 AND 689+00

NOTES:

1. SEE SHEET 213 FOR QUANTITIES.
2. SEE SHEET 629 FOR COMMUNICATION DETAILS.
3. SEE SHEET 571 FOR NODE #071104.0 DETAIL AND POWER PLAN.
4. LIMITED ACCESS RIGHT OF WAY IS LOCATED OUTSIDE OF THE EXTENT OF VIEW SHOWN ABOVE.

(#) EXISTING UTILITY CROSSING. SEE UTILITY CROSSING INFO SHEET 17.

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CITY OF COLUMBUS UTILITY LEGEND

☒	SEWER
☒	WATER
☒	POWER
☐	LIGHTING



REFER TO SHEET 12 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

3378-E

HORIZONTAL SCALE IN FEET
0 100 200

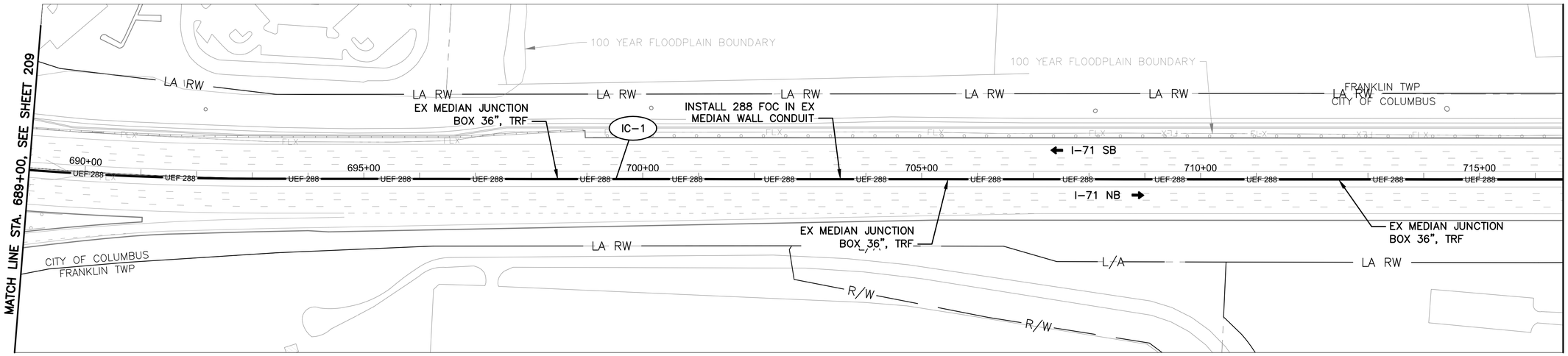
CIP: 540007-100012
PID NUMBER: 99733

INTERCONNECT PLAN
I-71 BETWEEN STA. 663+00 AND 689+00

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E - FINAL SUBMITTAL

209
915

J:\Jobs\63721 ctss phase e\TECHPROD\Sheets\CTSS_PhE_Trunk1_J-71_INTERCONNECT.dwg ~ I-71-7 layout ~ last saved by gburch 09/04/2018 02:43pm ~ printed 09/11/2018 08:39pm PSLTS: 1 LTS: 1 CAS: 1:1



I-71 BETWEEN STATION 689+00 AND 716+50

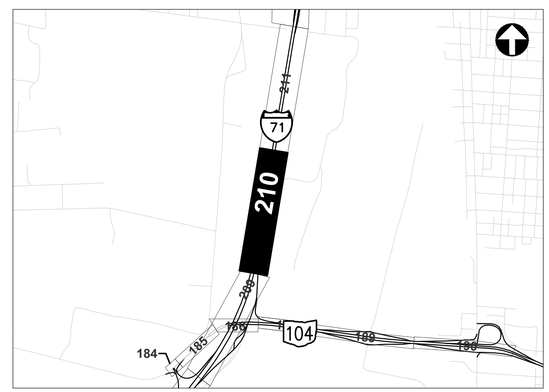
NOTES:

1. SEE SHEET 213 FOR QUANTITIES.
2. SEE SHEET 629 FOR COMMUNICATION DETAILS.

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CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 12 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

3378-E

HORIZONTAL SCALE IN FEET
0 100 200

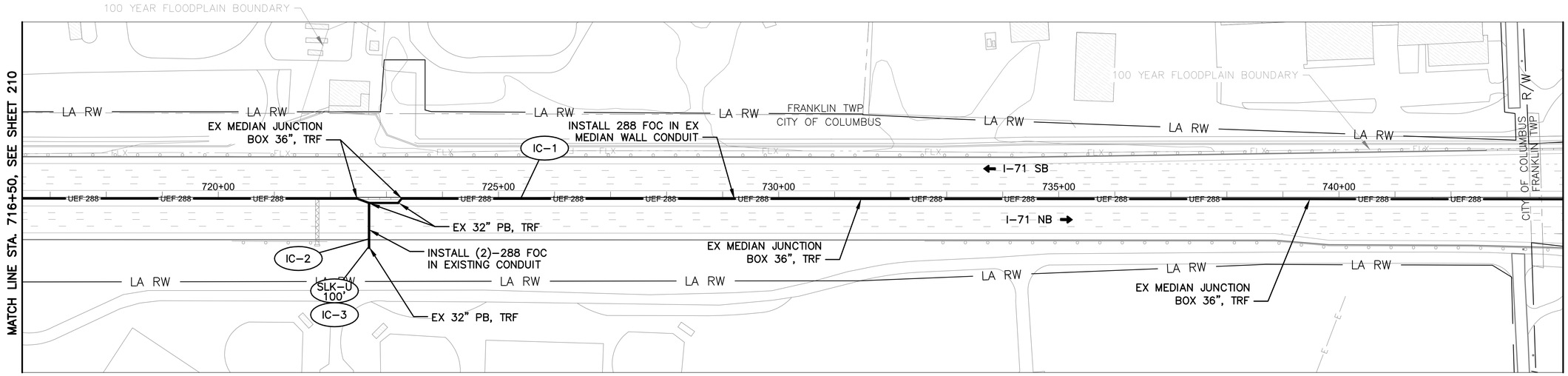
CIP: 540007-100012
PID NUMBER: 99733

INTERCONNECT PLAN
I-71 BETWEEN STA. 689+00 AND 716+50

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E - FINAL SUBMITTAL

210
915

J:\Jobs\63721 ctss phase e\TECHPROD\Sheets\CTSS_PhE_Trunk1_J-71_INTERCONNECT.dwg ~ I-71-8 layout ~ last saved by gburch 09/04/2018 02:43pm ~ printed 09/11/2018 08:41pm PSLTS: 1 LTS: 1 CAS: 1:1



I-71 BETWEEN STATION 716+50 AND 744+00

NOTES:

1. SEE SHEET 213 FOR QUANTITIES.
2. SEE SHEET 629 FOR COMMUNICATION DETAILS.



REFER TO SHEET 12 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING

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800-362-2764 or 8-1-1
www.oups.org

3378-E

HORIZONTAL SCALE IN FEET
0 100 200

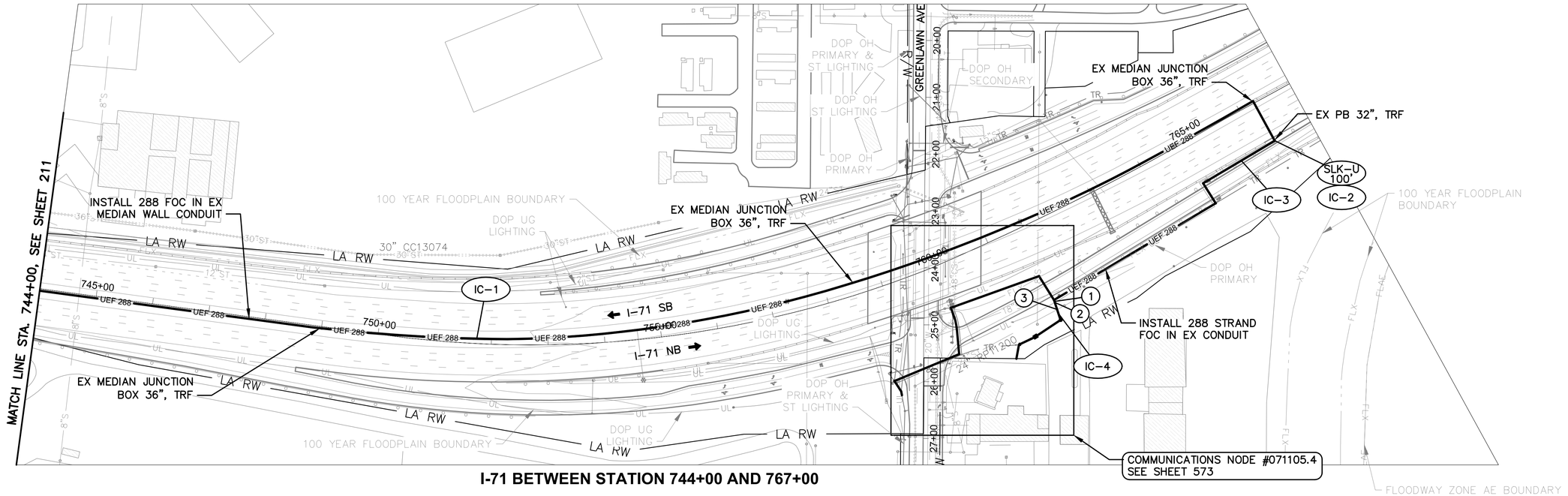
CIP: 540007-100012
PID NUMBER: 99733

INTERCONNECT PLAN
I-71 BETWEEN STA. 716+50 AND 744+00

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E - FINAL SUBMITTAL

211
915

J:\Jobs\63721 ctss phase e\TECHPROD\Sheets\CTSS_PhE_Trunk1_J-71_INTERCONNECT.dwg - I-71-9 layout ~ last saved by gburch 09/04/2018 02:43pm ~ printed 09/11/2018 08:42pm PSLTS: 1 LTS: 1 CAS: 1:1



I-71 BETWEEN STATION 744+00 AND 767+00

NOTES:

1. SEE SHEET 213 FOR QUANTITIES.
2. SEE SHEET 629 FOR COMMUNICATION DETAILS.

(#) EXISTING UTILITY CROSSING. SEE UTILITY CROSSING INFO SHEET 17.

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CITY OF COLUMBUS UTILITY LEGEND

- SEWER
- WATER
- POWER
- LIGHTING



REFER TO SHEET 12 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

3378-E

HORIZONTAL SCALE IN FEET
0 100 200

CIP: 540007-100012
PID NUMBER: 99733

INTERCONNECT PLAN
I-71 BETWEEN STA. 744+00 AND 767+00

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E - FINAL SUBMITTAL

212
915

J:\Jobs\63721 ctss phase e\TECHPROD\Sheets\CTSS_PhE_Trunk1_I-71_INTERCONNECT.dwg - I-71-10 layout ~ last saved by: gburch 09/04/2018 02:43pm ~ printed 09/11/2018 08:44pm PSLTS: 1 LTS: 1 CAS: 1:1

ESTIMATED QUANTITIES

SHEET NO.	REFERENCE NO.	LOCATION	STATION FROM	STATION TO	202 EXISTING CONDUIT CLEANED, AS PER PLAN FT	625 CONDUIT, 3", AS PER PLAN FT	625 TRENCH, 36" DEEP, AS PER PLAN FT	632 INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 288 STRAND FT																
I-71 BETWEEN STA. 553+00 AND 580+50																								
205	IC-1	I-71	564+90, 1' RT	564+90, 130' RT	129			129																
205	IC-2	I-71	564+90, 1' RT	580+50, 1' RT	1,560			1,560																
205	IC-3	I-71	564+90, 130' RT	564+99, 155' RT		64	32	32																
I-71 BETWEEN STA. 580+50 AND 608+00																								
206	IC-1	I-71	580+50, 1' RT	608+00, 1' RT	2,750			2,750																
I-71 BETWEEN STA. 608+00 AND 635+50																								
207	IC-1	I-71	608+00, 1' RT	635+50, 1' RT	2,750			2,750																
207	IC-2	I-71	627+52, 1' RT	627+52, 96' RT	95			190																
207	IC-3	I-71	627+52, 96' RT					100																
I-71 BETWEEN STA. 635+50 AND 663+00																								
208	IC-1	I-71	635+50, 1' RT	663+00, 1' RT	2,750			2,750																
I-71 BETWEEN STA. 663+00 AND 689+00																								
209	IC-1	I-71	663+00, 1' RT	689+00, 4' RT	2,602			2,602																
209	IC-2	I-71	678+48, 89' LT	679+38, 7' RT	173			346																
I-71 BETWEEN STA. 689+00 AND 716+50																								
210	IC-1	I-71	689+00, 4' RT	716+50, 2' RT	2,750			2,750																
I-71 BETWEEN STA. 716+50 AND 744+00																								
211	IC-1	I-71	716+50, 2' RT	744+00, 3' RT	2,755			2,755																
211	IC-3	I-71	722+69, 90' RT					100																
211	IC-2	I-71	722+69, 90' RT	722+69, 10' RT	80			160																
I-71 BETWEEN STA. 744+00 AND 767+00																								
212	IC-1	I-71	744+00, 3' LT	766+29, 4' LT	2,220			2,220																
212	IC-3	I-71	759+95, 78' LT	766+29, 4' LT	813			813																
212	IC-4	I-71	761+57, 177' RT	761+62, 140' RT		74	37	37																
212	IC-2	I-71	766+29, 75' RT					100																
SHEET TOTAL					21,427	138	69	22,144	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

AERIAL SAG: 1.5% AERIAL SAG IS INCLUDED IN THE QUANTITIES FOR ANY AERIAL FIBER OR CABLE ITEMS.

3378-E

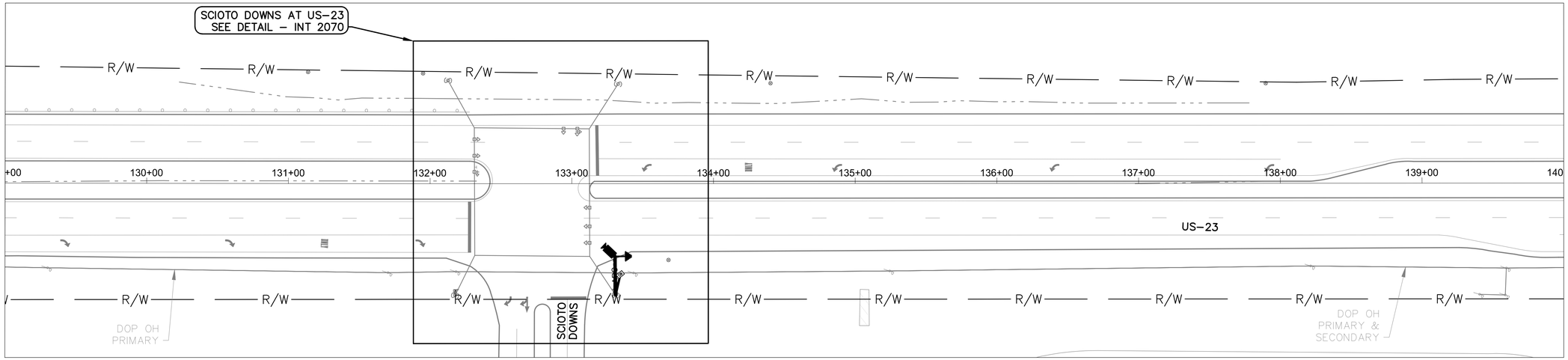
CIP: 540007-100012
PID NUMBER: 99733

I-71 BETWEEN STA. 553+00 AND 767+00

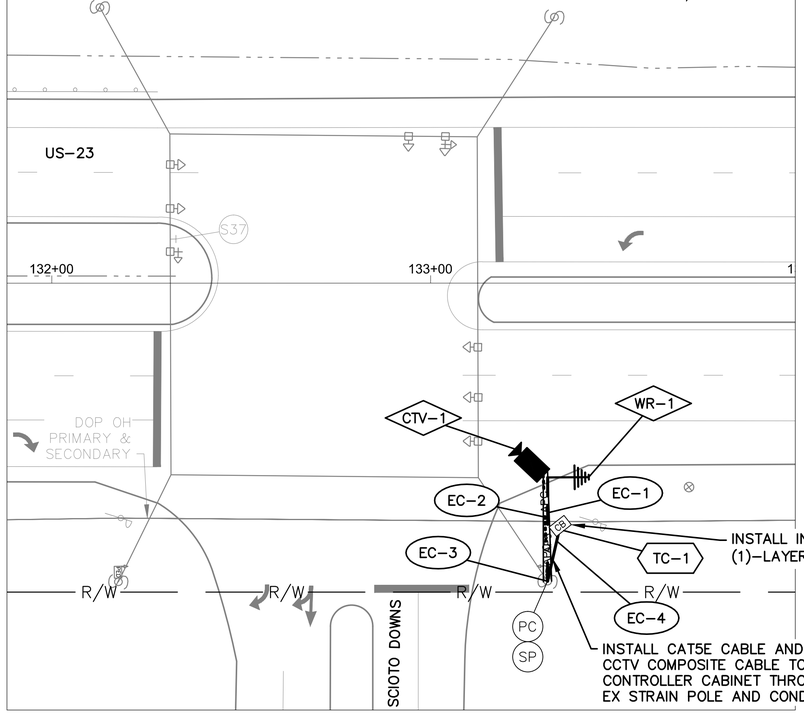
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E - FINAL SUBMITTAL

213
915

J:\Jobs\63721 CTSS Phase E\TECHPROD\Sheets\CTSS_PhE_Trunk1_I71_IC_QUANTITIES.dwg ~ I-71-Q1 layout ~ last saved by: gburch 08/18/2017 04:25pm ~ printed 09/18/2018 09:52am PSLTS: 1 LTS: 1 CAS: 1:1



US-23 BETWEEN STATION 129+00 AND 140+00



DETAIL - INT 2070

0 20 40
HORIZONTAL SCALE IN FEET

INT 2070 WITH PROPOSED SIGNAL CONTROLLER

PROPOSED WIRELESS
SEE SHEET 215
INT 2182 – HIGH ST AT RATHMELL RD

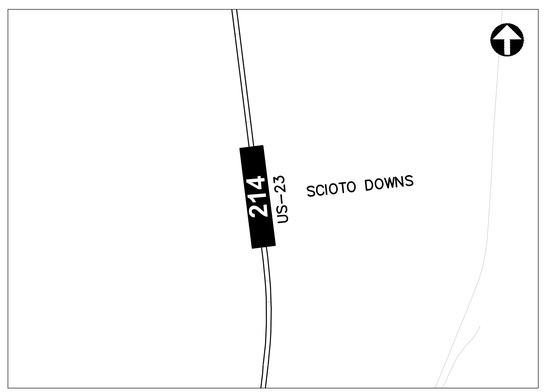
NOTES:

1. SEE SHEET 216 FOR QUANTITIES.
2. SEE SHEETS 628 & 818 FOR COMMUNICATION DETAILS.

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CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☒ POWER
- ☐ LIGHTING



REFER TO SHEET 14 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

3378-E

0 40 80
HORIZONTAL SCALE IN FEET

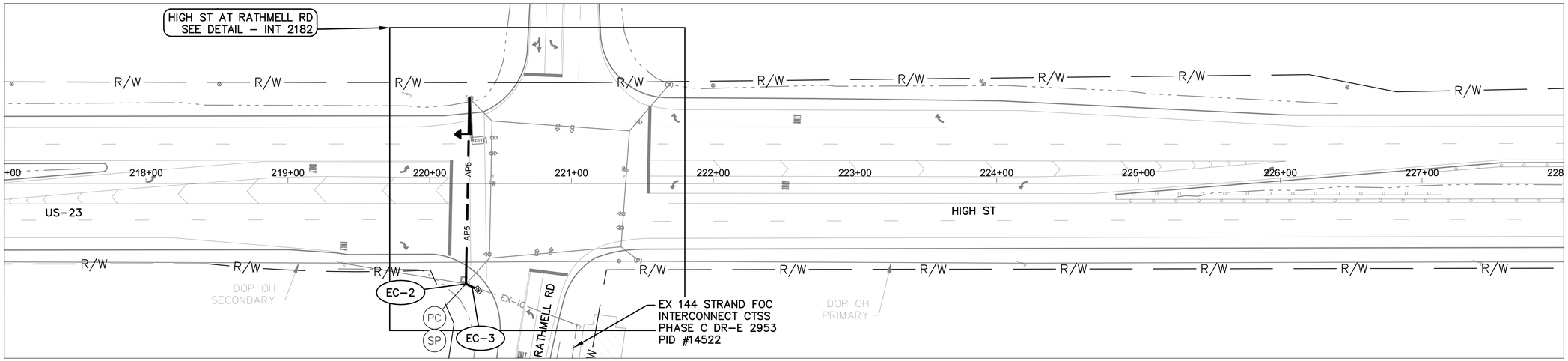
CIP: 540007-100012
PID NUMBER: 99733

INTERCONNECT PLAN
US-23 BETWEEN STA. 129+00 AND 140+00, INT 2070

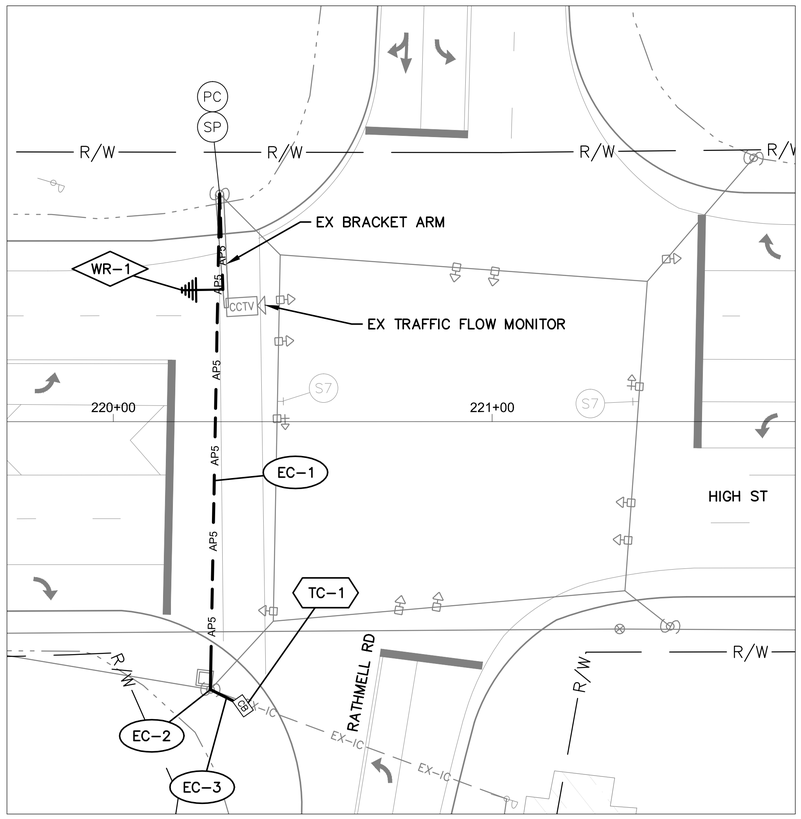
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

214
915

J:\Jobs\63721 ctss phase e\TECHPROD\Sheets\CTSS_PhE_Trunk1_US-23_INTERCONNECT.dwg – HIGH-10 layout ~ last saved by: gburch 06/15/2018 09:16am ~ printed 09/11/2018 08:47pm PSLTS: 1 LTS: 1 CAS: 1:1



HIGH ST BETWEEN STATION 217+00 AND 228+00



DETAIL - INT 2182

0 20 40
HORIZONTAL
SCALE IN FEET

NOTES:

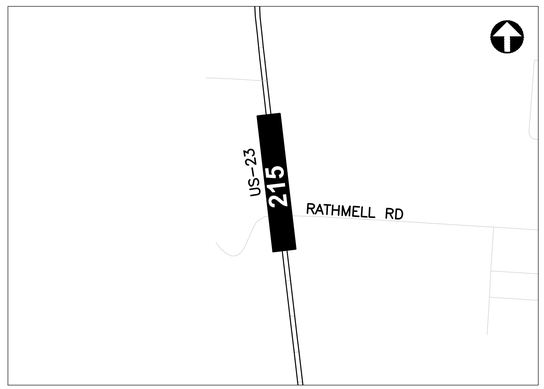
1. SEE SHEET 216 FOR QUANTITIES.
2. SEE SHEETS 628 & 819 FOR COMMUNICATION DETAILS.

INT 2182 WITH EXISTING SIGNAL CONTROLLER

PROPOSED WIRELESS
SEE SHEET 214
INT 2070 – US–23 AT
SCIOTO DOWNS

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www.oups.org

CITY OF COLUMBUS
UTILITY LEGEND
- ☐ SEWER
- ☐ WATER
- ☒ POWER
- ☐ LIGHTING



REFER TO SHEET 14 FOR
INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

0 40 80
HORIZONTAL
SCALE IN FEET

CIP: 540007–100012
PID NUMBER: 99733

INTERCONNECT PLAN
HIGH ST BETWEEN STA. 217+00 AND 228+00, INT 2182

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

215
915

3378-E

j:\Jobs\63721 ctss phase e\TECHPROD\Sheets\CTSS_PhE_Trunk1_US–23_2_INTERCONNECT.dwg ~ HIGH–18 layout ~ last saved by: gburch 09/04/2018 02:57pm ~ printed 09/11/2018 08:50pm PSLTS: 1 LTS: 1 CAS: 1:1

ESTIMATED QUANTITIES

SHEET NO.	REFERENCE NO.	LOCATION	STATION		202	625	632	632	632	632	632	633												
					EXISTING CONDUIT CLEANED, AS PER PLAN	BRACKET ARM, 30', AS PER PLAN	INTERCONNECT, MISC.: CAT 5E CABLE, OUTDOOR RATED	MESSENGER WIRE, 7 STRAND, 1/4" DIAMETER WITH ACCESSORIES, AS PER PLAN	SIGNALIZATION, MISC.: CCTV COMPOSITE CABLE	SIGNALIZATION, MISC.: CCTV IP-CAMERA SYSTEM	SPREAD SPECTRUM RADIO, AS PER PLAN	CONTROLLER ITEM, MISC.: LAYER 2 ETHERNET SWITCH												
			FROM	TO	FT	EACH	FT	FT	FT	EACH	EACH	EACH												
HIGH ST. BETWEEN STA. 129+00 AND 140+00, INT 2070																								
214	CTV-1	HIGH ST	133+30, 51' RT							1														
214	EC-2	HIGH ST	133+30, 51' RT	133+30, 79' RT					28															
214	WR-1	HIGH ST	133+30, 51' RT								1													
214	EC-3	HIGH ST	133+30, 79' RT			1	35		70															
214	EC-1	HIGH ST	133+30, 79' RT	133+30, 51' RT			27																	
214	EC-4	HIGH ST	133+30, 79' RT	133+34, 64' RT	15		15		30															
214	TC-1	HIGH ST	133+34, 64' RT				10		20			1												
HIGH ST. BETWEEN STA. 217+00 AND 228+00, INT 2182																								
215	EC-1	HIGH ST	220+25, 71' RT	220+29, 31' LT			162	162																
215	EC-2	HIGH ST	220+25, 71' RT				35																	
215	EC-3	HIGH ST	220+25, 71' RT	220+34, 75' RT	10		10																	
215	WR-1	HIGH ST	220+29, 31' LT								1													
215	TC-1	HIGH ST	220+34, 75' RT				10																	
SHEET TOTAL					25	1	304	162	148	1	2	1	-	-	-	-	-	-	-	-	-	-	-	-

AERIAL SAG: 1.5% AERIAL SAG IS INCLUDED IN THE QUANTITIES FOR ANY AERIAL FIBER OR CABLE ITEMS.

3378-E

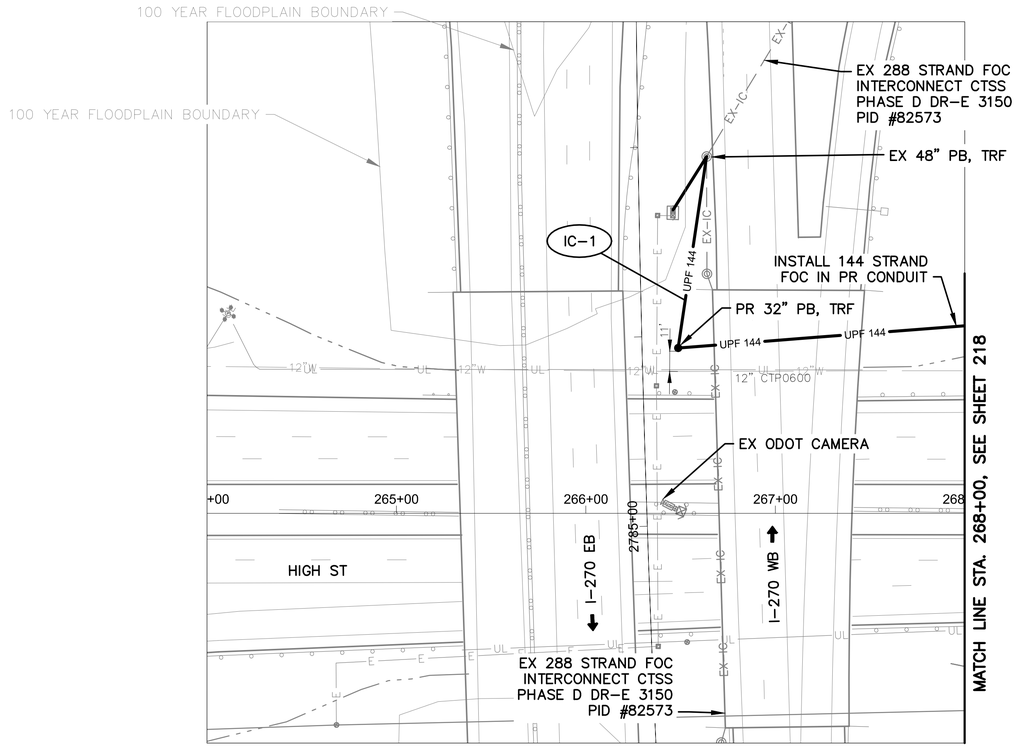
CIP: 540007-100012
PID NUMBER: 99733

HIGH ST BETWEEN STA. 129+00 & 140+00 AND 217+00 & 228+00
INTS 2070, 2182

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

216
915

J:\Jobs\63721 CTSS Phase E\TECHPROD\Sheets\CTSS_PhE_Trunk1_HIGH_IC_QUANTITIES.dwg ~ HIGH ST-03 layout ~ last saved by: gburch 09/11/2018 09:01am ~ printed 09/18/2018 09:53am PSLTS: 1 LTS: 1 CAS: 1:1



HIGH ST BETWEEN STATION 264+00 AND 268+00

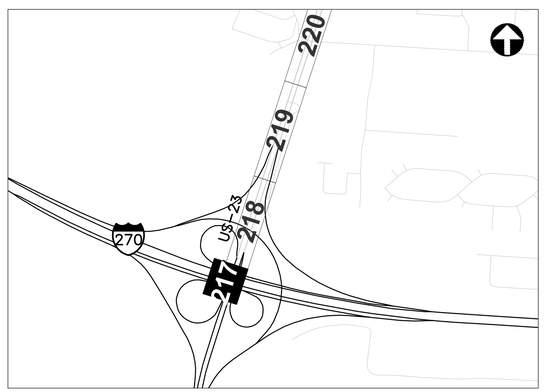
NOTES:

1. SEE SHEET 223 FOR QUANTITIES.
2. SEE SHEET 628 FOR COMMUNICATION DETAILS.
3. SEE SHEET 576 FOR NODE #270052.7 DETAIL.
4. LIMITED ACCESS RIGHT OF WAY IS LOCATED OUTSIDE OF THE EXTENT OF VIEW SHOWN ABOVE.

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CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☒ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 12 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

3378-E

HORIZONTAL SCALE IN FEET
0 40 80

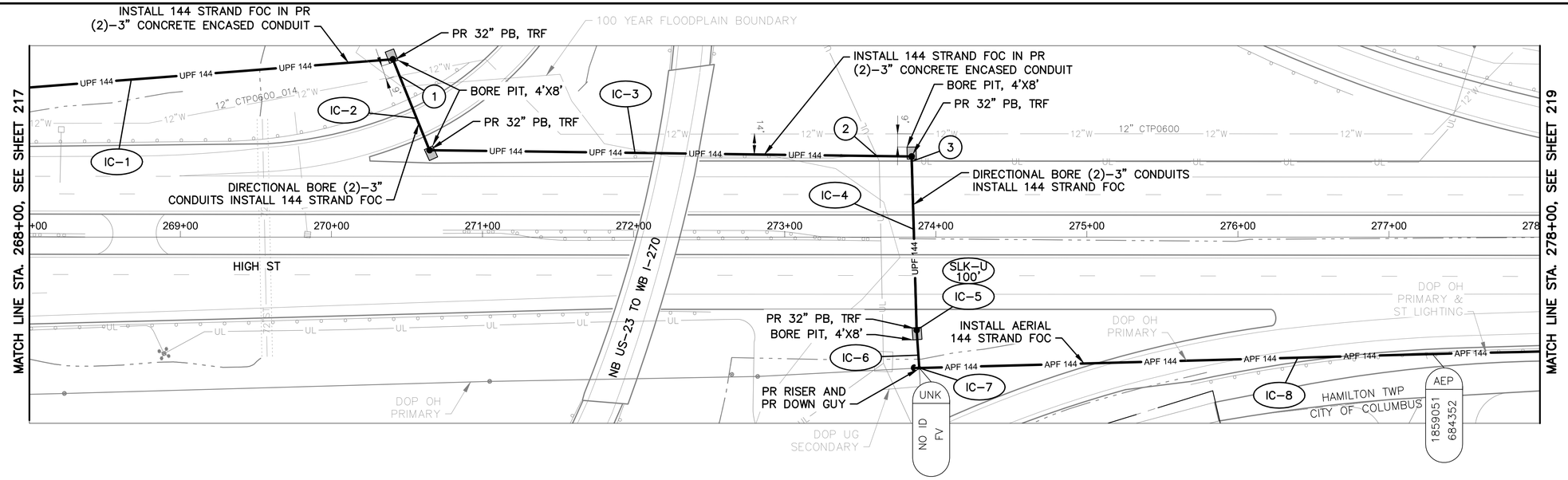
CIP: 540007-100012
PID NUMBER: 99733

INTERCONNECT PLAN
HIGH ST BETWEEN STA. 258+00 AND 268+00

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

217
915

J:\Jobs\63721 ctss phase e\TECHPROD\Sheets\CTSS_PhE_Trunk1_US-23_2_INTERCONNECT.dwg – HIGH-19 layout ~ last saved by: gburch 09/04/2018 02:57pm ~ printed 09/11/2018 08:52pm PSLTS: 1 LTS: 1 CAS: 1:1



HIGH ST BETWEEN STATION 268+00 AND 278+00

NOTES:

1. SEE SHEET 223 FOR QUANTITIES.
2. SEE SHEET 628 FOR COMMUNICATION DETAILS.
3. LIMITED ACCESS RIGHT OF WAY IS LOCATED OUTSIDE OF THE EXTENT OF VIEW SHOWN ABOVE.

(#) EXISTING UTILITY CROSSING. SEE UTILITY CROSSING INFO SHEET 17.

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CITY OF COLUMBUS UTILITY LEGEND

- SEWER
- WATER
- POWER
- LIGHTING



REFER TO SHEET 12 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

HORIZONTAL SCALE IN FEET
0 40 80

CIP: 540007–100012
PID NUMBER: 99733

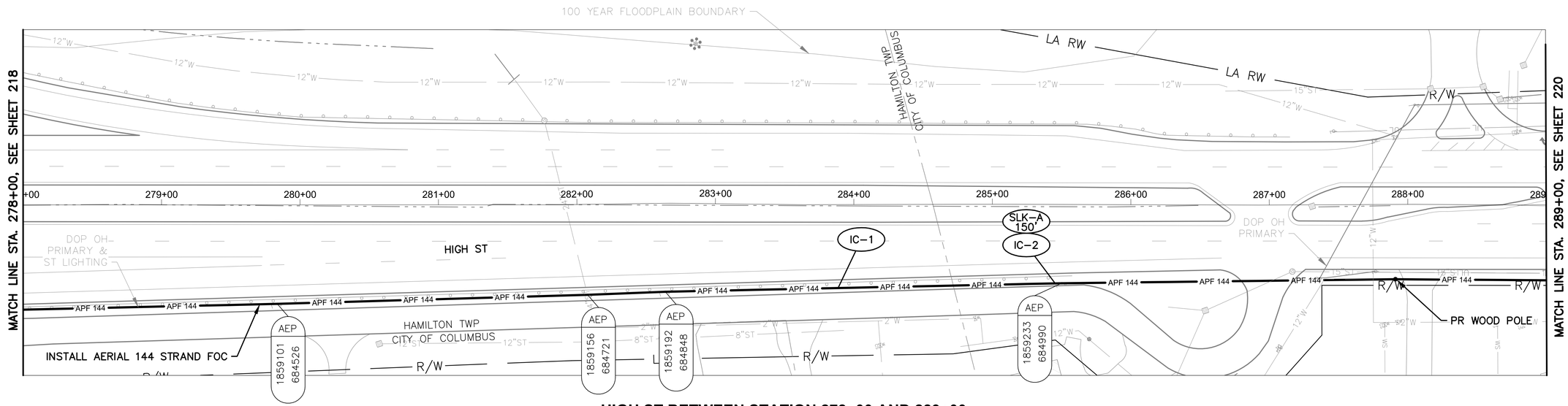
INTERCONNECT PLAN
HIGH ST BETWEEN STA. 268+00 AND 278+00

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

218
915

3378-E

J:\Jobs\63721 ctss phase e\TECHPROD\Sheets\CTSS_PhE_Trunk1_US–23_2_INTERCONNECT.dwg – HIGH–20 layout ~ last saved by: gburch 09/04/2018 02:57pm ~ printed 09/11/2018 08:54pm PSLTS: 1 LTS: 1 CAS: 1:1



HIGH ST BETWEEN STATION 278+00 AND 289+00

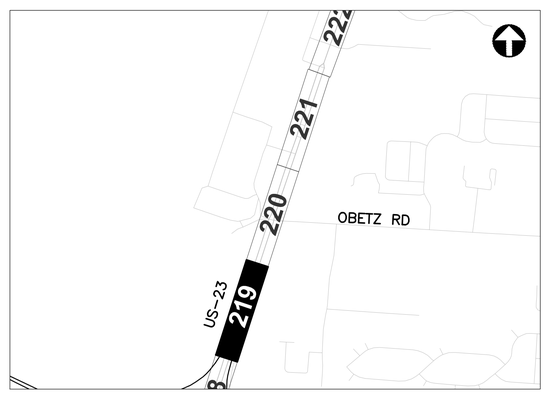
NOTES:

1. SEE SHEET 223 FOR QUANTITIES.
2. SEE SHEET 628 FOR COMMUNICATION DETAILS.

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CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☒ POWER
- ☒ LIGHTING



REFER TO SHEET 12 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

3378-E

HORIZONTAL SCALE IN FEET
0 40 80

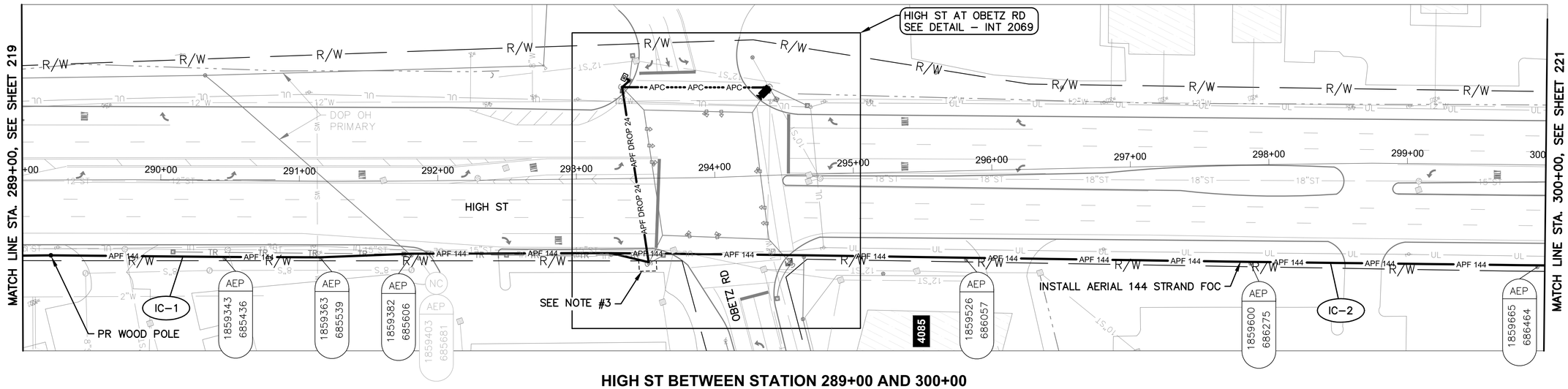
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PID NUMBER: 99733

INTERCONNECT PLAN
HIGH ST BETWEEN STA. 278+00 AND 289+00

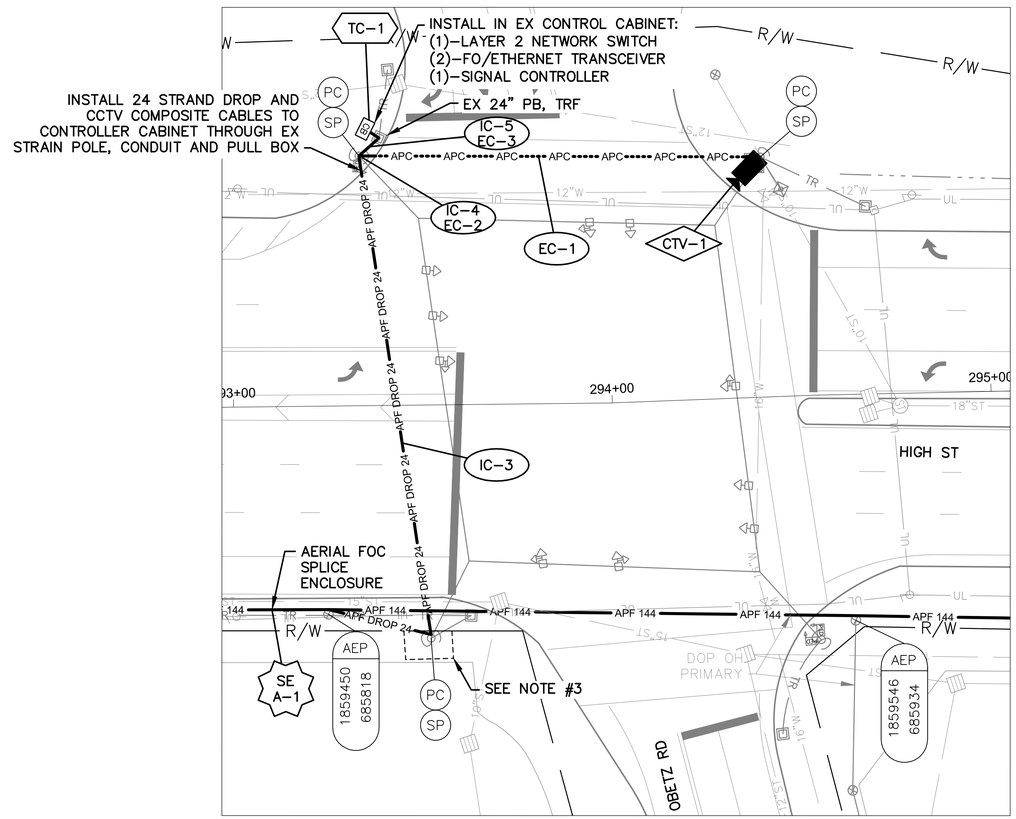
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

219
915

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HIGH ST BETWEEN STATION 289+00 AND 300+00



DETAIL - INT 2069

0 20 40
HORIZONTAL SCALE IN FEET

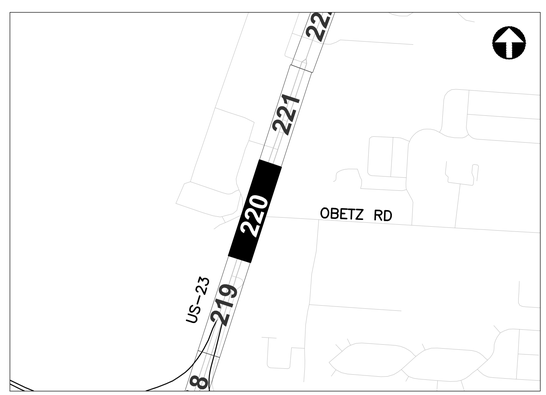
NOTES:

1. SEE SHEET 223 FOR QUANTITIES.
2. SEE SHEETS 628 & 820 FOR COMMUNICATION DETAILS.
3. EXISTING EASEMENT SHOWN PER INSTRUMENT #199708220076603, PARCEL 14U.

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www.oups.org

CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☒ POWER
- ☒ LIGHTING



REFER TO SHEET 12 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

0 40 80
HORIZONTAL SCALE IN FEET

CIP: 540007–100012
PID NUMBER: 99733

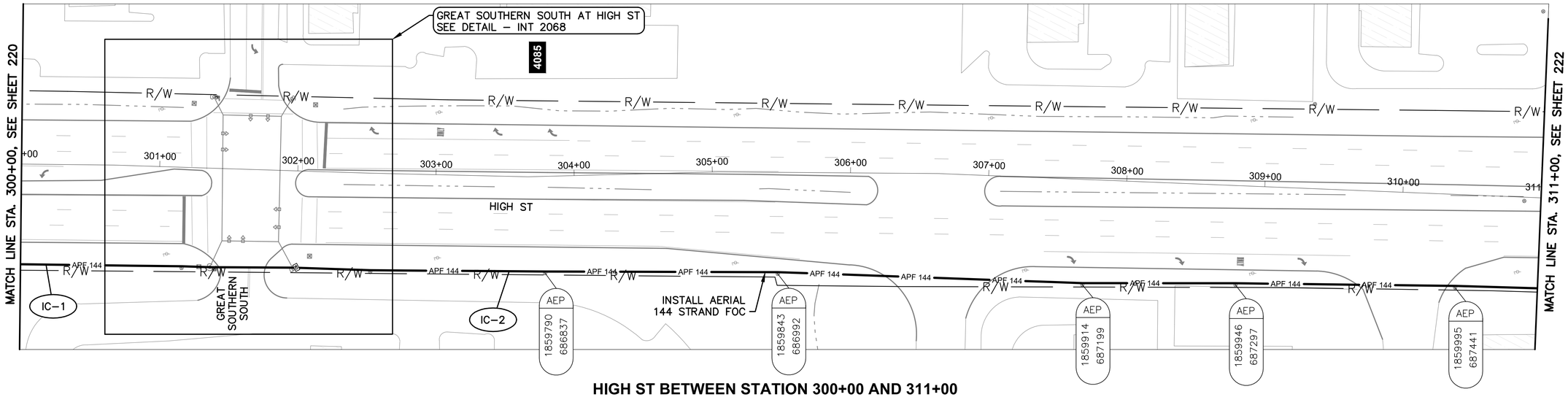
INTERCONNECT PLAN
HIGH ST BETWEEN STA. 289+00 AND 300+00, INT 2069

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

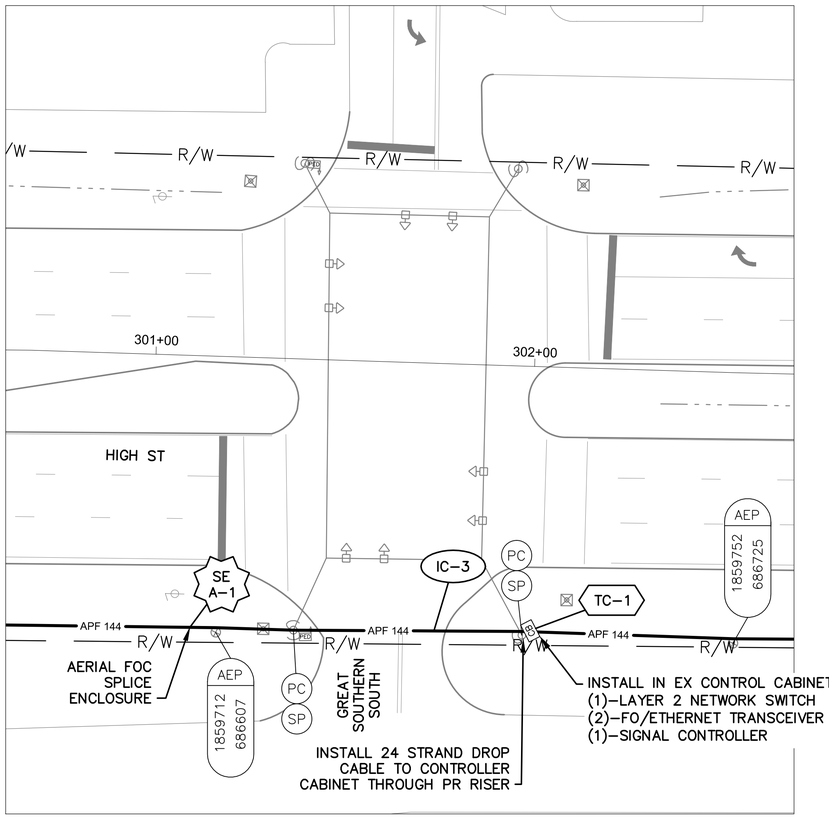
3378-E

220
915

J:\Jobs\63721 ctss phase e\TECHPROD\Sheets\CTSS_PhE_Trunk1_US-23_3_INTERCONNECT.dwg ~ HIGH-22 layout ~ last saved by: gburch 09/11/2018 08:59pm PSLTS: 1 LTS: 1 CAS: 1:1
09/11/2018 01:24pm ~ printed



HIGH ST BETWEEN STATION 300+00 AND 311+00



DETAIL - INT 2068

0 20 40
HORIZONTAL
SCALE IN FEET

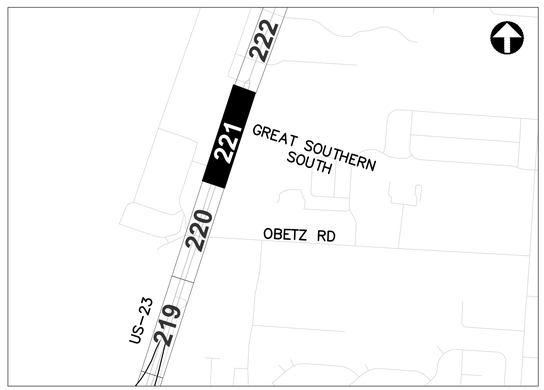
NOTES:

1. SEE SHEET 223 FOR QUANTITIES.
2. SEE SHEETS 628 & 821 FOR COMMUNICATION DETAILS.
3. EXISTING CONDUIT TO CONTROLLER CABINET IS FULL. INSTALL NEW FLEXIBLE CONDUIT TO CABINET FOR PROPOSED DROP CABINET.

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CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☒ POWER
- ☒ LIGHTING



REFER TO SHEET 12 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

0 40 80
HORIZONTAL
SCALE IN FEET

CIP: 540007–100012
PID NUMBER: 99733

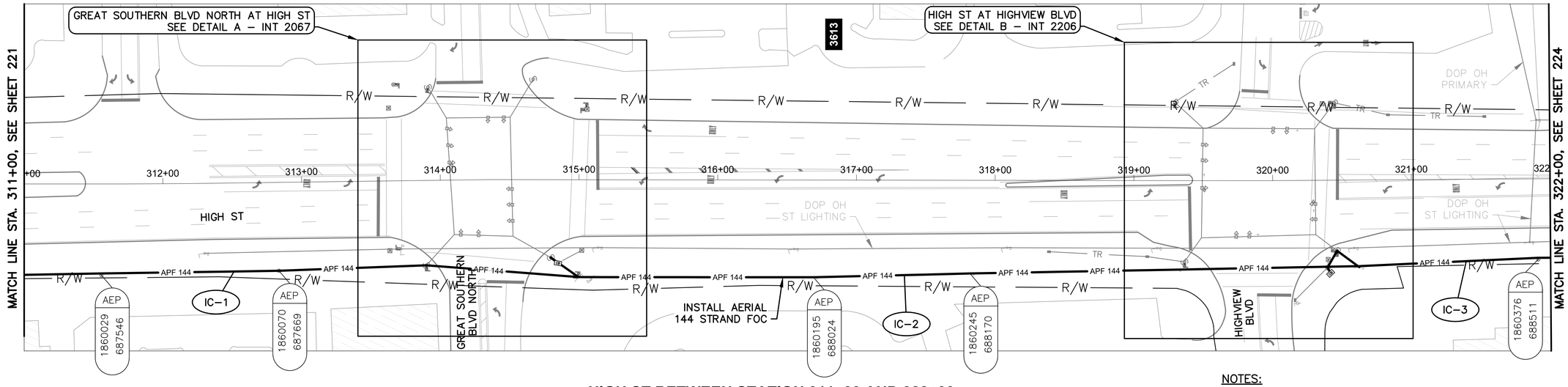
INTERCONNECT PLAN
HIGH ST BETWEEN STA. 300+00 AND 311+00, INT 2068

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

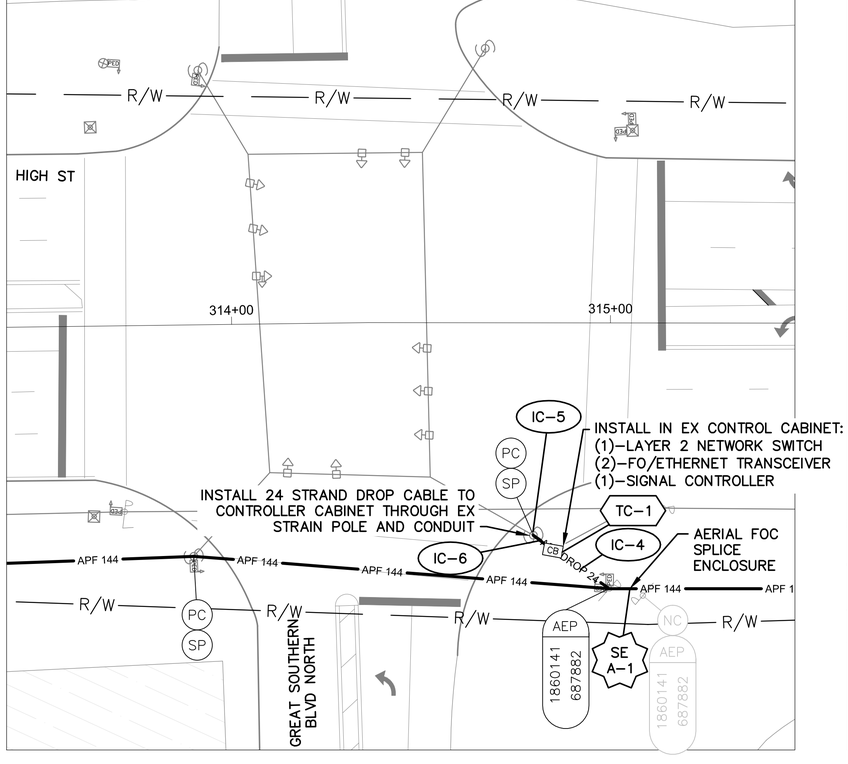
221
915

3378-E

J:\Jobs\63721 CTSS Phase E\TECHPROD\Sheets\CTSS_PhE_Trunk1_US-23_3_INTERCONNECT.dwg – HIGH-23 layout ~ last saved by: gburch 09/13/2018 03:48pm ~ printed 09/13/2018 05:10pm PSLTS: 1 LTS: 1 CAS: 1:1

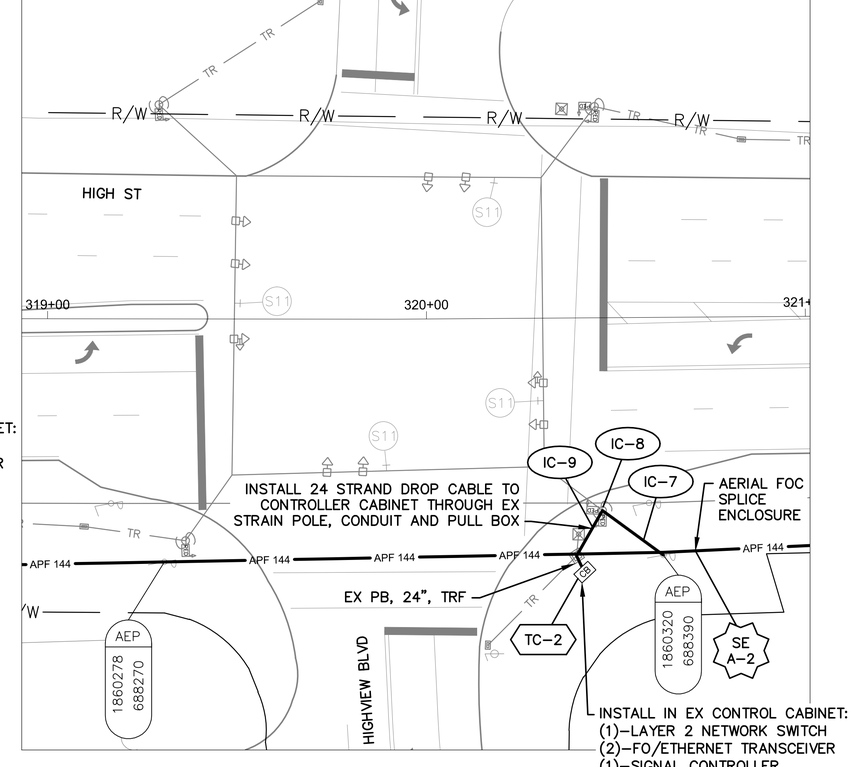


HIGH ST BETWEEN STATION 311+00 AND 322+00



DETAIL A - INT 2067

0 20 40
HORIZONTAL SCALE IN FEET



DETAIL B - INT 2206

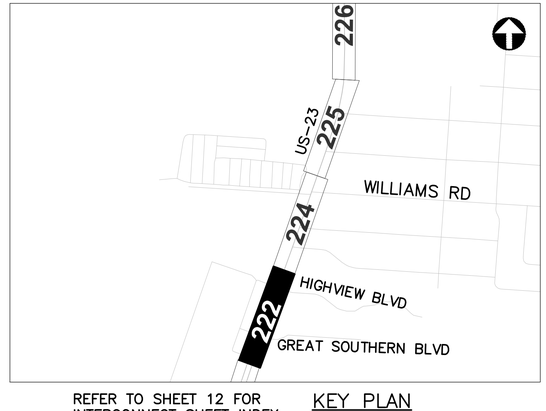
0 20 40
HORIZONTAL SCALE IN FEET

NOTES:

1. SEE SHEET 223 FOR QUANTITIES.
2. SEE SHEETS 628, 629, 822, & 823 FOR COMMUNICATION DETAILS.
3. SIGNAL AGREEMENT CT–01112R IN PLACE BETWEEN CITY OF COLUMBUS AND GREAT SOUTHERN 0200 AND ALL INC. SPRINGFIELD DIVISION FOR MAINTENANCE OF TRAFFIC SIGNAL AT INT 2067.
4. SIGNAL AGREEMENT CT–01036R IN PLACE BETWEEN CITY OF COLUMBUS AND WAL–MART REAL ESTATE BUSINESS FOR MAINTENANCE OF TRAFFIC SIGNAL AT INT 2206.

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CITY OF COLUMBUS UTILITY LEGEND
- ☐ SEWER
- ☐ WATER
- ☒ POWER
- ☒ LIGHTING



REFER TO SHEET 12 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

0 40 80
HORIZONTAL SCALE IN FEET

CIP: 540007–100012
PID NUMBER: 99733

INTERCONNECT PLAN
HIGH ST BETWEEN STA. 311+00 AND 322+00, INTS 2067 AND 2206

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

222
915

3378-E

J:\Jobs\6372\ CTSS Phase E\TECHPROD\Sheets\CTSS_PhE_Trunk1_US-23_3_INTERCONNECT1.dwg – HIGH-24 layout ~ last saved by: gburch 09/13/2018 03:48pm ~ printed 09/13/2018 05:12pm PSLTS: 1 LTS: 1 CAS: 1:1

ESTIMATED QUANTITIES

SHEET NO.	REFERENCE NO.	LOCATION	STATION		202	625	625	625	625	632	632	632	632	632	632	632	632	632	632	633	633	633	
					EXISTING CONDUIT CLEANED, AS PER PLAN	CONDUIT, CONCRETE ENCASED, 2-3", 725.05, AS PER PLAN	CONDUIT, JACKED OR DRILLED, 3", AS PER PLAN	PULL BOX, CONCRETE 32", AS PER PLAN	TRENCH, 36" DEEP, AS PER PLAN	CONDUIT RISER, 2", 725.04, AS PER PLAN	DOWN GUY	INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 144 STRAND	INTERCONNECT CABLE, MISC.: FIBER OPTIC DROP CABLE, 24 STRAND	INTERCONNECT CABLE, MISC.: FIBER OPTIC FUSION SPLICE	INTERCONNECT CABLE, MISC.: TERMINATION PANEL, 24 FIBER	INTERCONNECT, MISC.: SPLICE ENCLOSURE, CLAMSHELL, 288 SPLICE	MESSENGER WIRE, 7 STRAND, 1/4" DIAMETER WITH ACCESSORIES, AS PER PLAN	SIGNALIZATION, MISC.: CCTV COMPOSITE CABLE	SIGNALIZATION, MISC.: CCTV IP-CAMERA SYSTEM	WOOD POLE, CLASS 5, 35 FT	CONTROLLER ITEM, MISC.: FIBER OPTIC ETHERNET TRANSCEIVER, SHORT RANGE	CONTROLLER ITEM, MISC.: LAYER 2 ETHERNET SWITCH	CONTROLLER UNIT, TYPE TS2/A2, AS PER PLAN	
			FROM	TO	FT	FT	FT	EACH	FT	EACH	EACH	FT	FT	EACH	EACH	EACH	FT	FT	EACH	EACH	EACH	EACH	EACH	
HIGH ST. BETWEEN STA. 264+00 AND 268+00																								
217	IC-1	HIGH ST	266+63, 188' LT	268+00, 99' LT		254		1	254			254												
HIGH ST. BETWEEN STA. 268+00 AND 278+00																								
218	IC-1	HIGH ST	268+00, 99' LT	270+40, 118' LT		241		1	241			241												
218	IC-2	HIGH ST	270+40, 118' LT	270+64, 58' LT			130					65												
218	IC-3	HIGH ST	270+64, 58' LT	273+83, 56' LT		319		2	319			319												
218	IC-4	HIGH ST	273+83, 56' RT	273+87, 62' RT			236					118												
218	IC-5	HIGH ST	273+87, 62' RT					1				100												
218	IC-6	HIGH ST	273+87, 62' RT	273+89, 87' RT		25			25			25												
218	IC-7	HIGH ST	273+89, 87' RT							1	1	35												
218	IC-8	HIGH ST	273+89, 87' RT	278+00, 76' RT								417					417							
HIGH ST. BETWEEN STA. 278+00 AND 289+00																								
219	IC-1	HIGH ST	278+00, 76' RT	289+00, 73' RT								1,144					1,144			1				
219	IC-2	HIGH ST	285+45, 57' RT									150												
HIGH ST. BETWEEN STA. 289+00 AND 300+00, INT 2069																								
220	IC-1	HIGH ST	289+00, 73' RT	293+24, 55' RT								432					432			1				
220	IC-3	HIGH ST	293+24, 55' LT	293+33, 66' LT									159				159							
220	SE A-1	HIGH ST	293+24, 55' RT									150	125	24		1								
220	IC-2	HIGH ST	293+24, 55' RT	300+00, 74' RT								684					684							
220	IC-4	HIGH ST	293+33, 66' LT										35											
220	EC-2	HIGH ST	293+33, 66' LT															70						
220	IC-5	HIGH ST	293+33, 66' LT	293+35, 73' LT	12								12											
220	EC-3	HIGH ST	293+33, 66' LT	293+35, 73' LT														24						
220	EC-1	HIGH ST	293+33, 66' LT	294+41, 63' LT													108	216						
220	TC-1	HIGH ST	293+35, 73' LT										10		1			20			2	1	1	
220	CTV-1	HIGH ST	294+41, 63' LT																1					
HIGH ST. BETWEEN STA. 300+00 AND 311+00, INT 2068																								
221	IC-1	HIGH ST	300+00, 74' RT	301+38, 72' RT								139					139							
221	SE A-1	HIGH ST	301+38, 72' RT									150	125	24		1								
221	IC-3	HIGH ST	301+38, 72' RT	301+98, 71' RT									60											
221	IC-2	HIGH ST	301+38, 72' RT	311+00, 67' RT								975					975							
221	TC-1	HIGH ST	301+98, 71' RT										45		1						2	1	1	
HIGH ST. BETWEEN STA. 311+00 AND 322+00, INTS 2067 & 2206																								
222	IC-1	HIGH ST	311+00, 67' RT	314+99, 70' RT								406					406							
222	IC-5	HIGH ST	314+79, 56' RT										35											
222	IC-6	HIGH ST	314+79, 56' RT	314+84, 60' RT	7								7											
222	IC-4	HIGH ST	314+79, 56' RT	314+99, 70' RT									25				25							
222	TC-1	HIGH ST	314+84, 60' RT										10		1						2	1	1	
222	SE A-1	HIGH ST	314+99, 70' RT									150	125	24		1								
222	IC-2	HIGH ST	314+99, 70' RT	320+62, 63' RT								571					571							
222	TC-2	HIGH ST	320+41, 67' RT										10		1						2	1	1	
222	IC-9	HIGH ST	320+41, 67' RT	320+46, 51' RT	18								18											
222	IC-8	HIGH ST	320+46, 51' RT										35											
222	IC-7	HIGH ST	320+46, 51' RT	320+62, 63' RT									20				20							
222	SE A-2	HIGH ST	320+62, 63' RT									150	125	24		1								
222	IC-3	HIGH ST	320+62, 63' RT	322+00, 58' RT								140					140							
SHEET TOTAL					37	839	366	5	839	1	1	6,815	981	96	4	4	5,220	330	1	2	8	4	4	-

AERIAL SAG: 1.5% AERIAL SAG IS INCLUDED IN THE QUANTITIES FOR ANY AERIAL FIBER OR CABLE ITEMS.

3378-E

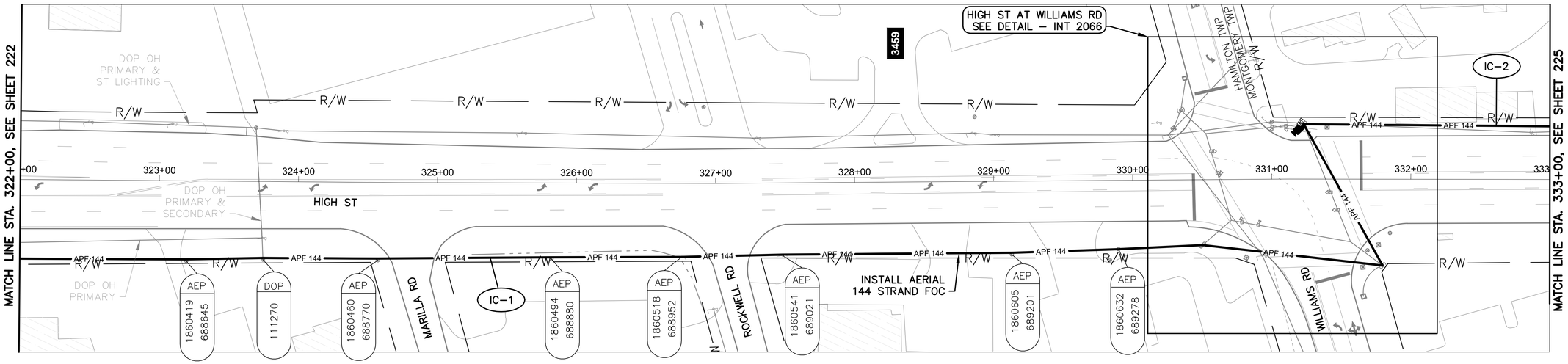
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PID NUMBER: 99733

HIGH ST BETWEEN STA. 264+00 & 322+00
INTS 2069, 2068, 2067, 2206

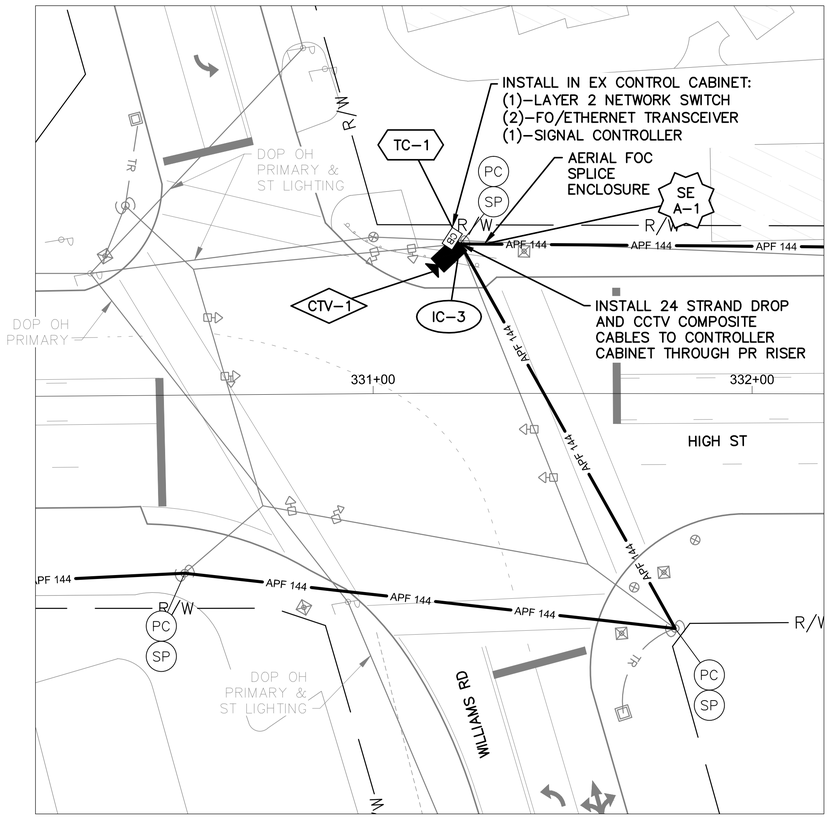
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

223
915

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HIGH ST BETWEEN STATION 322+00 AND 333+00



DETAIL - INT 2066

0 20 40
HORIZONTAL SCALE IN FEET

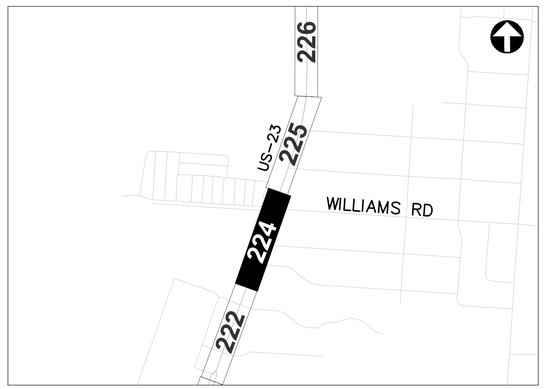
NOTES:

1. SEE SHEET 232 FOR QUANTITIES.
2. SEE SHEETS 629 & 824 FOR COMMUNICATION DETAILS.
3. EXISTING CONDUIT TO CONTROLLER CABINET IS FULL. INSTALL NEW FLEXIBLE CONDUIT TO CABINET FOR PROPOSED DROP CABLE AND CAMERA CABLE.

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CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☒ POWER
- ☒ LIGHTING



REFER TO SHEET 12 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

0 40 80
HORIZONTAL SCALE IN FEET

CIP: 540007–100012
PID NUMBER: 99733

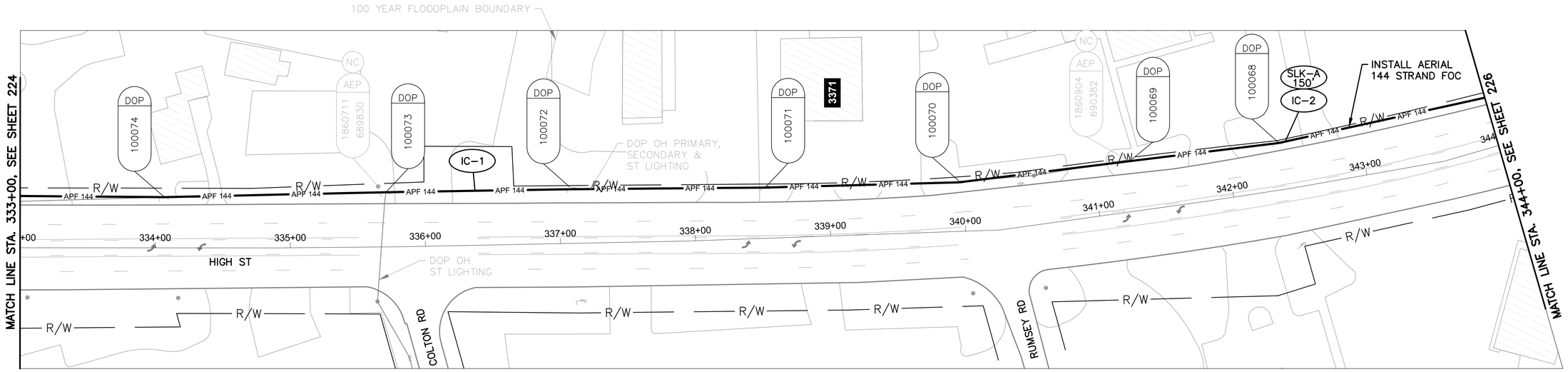
INTERCONNECT PLAN
HIGH ST BETWEEN STA. 322+00 AND 333+00, INT 2066

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

224
915

3378-E

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HIGH ST BETWEEN STATION 333+00 AND 344+00

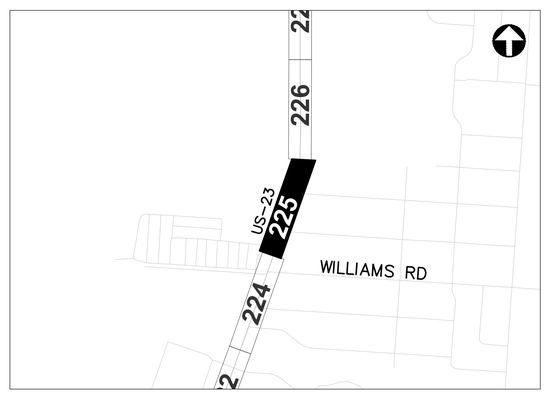
NOTES:

1. SEE SHEET 232 FOR QUANTITIES.
2. SEE SHEET 629 FOR COMMUNICATION DETAILS.

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CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☒ POWER
- ☒ LIGHTING



REFER TO SHEET 12 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

3378-E

HORIZONTAL SCALE IN FEET
0 40 80

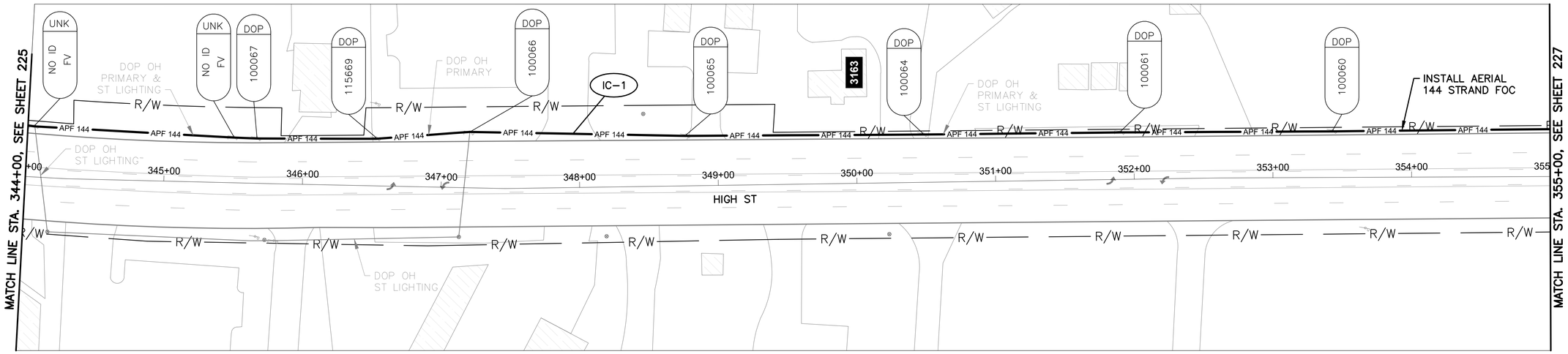
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PID NUMBER: 99733

INTERCONNECT PLAN
HIGH ST BETWEEN STA. 333+00 AND 344+00

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

225
915

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HIGH ST BETWEEN STATION 344+00 AND 355+00

NOTES:

1. SEE SHEET 232 FOR QUANTITIES.
2. SEE SHEET 629 FOR COMMUNICATION DETAILS.

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CITY OF COLUMBUS
UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☒ POWER
- ☒ LIGHTING



REFER TO SHEET 12 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

3378-E

HORIZONTAL SCALE IN FEET
0 40 80

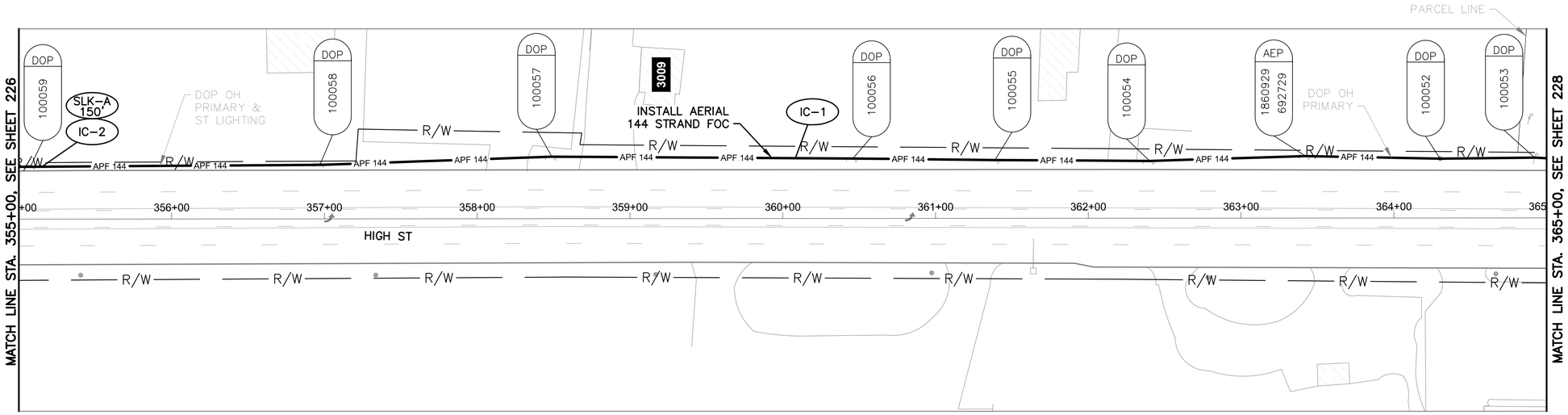
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PID NUMBER: 99733

INTERCONNECT PLAN
HIGH ST BETWEEN STA. 344+00 AND 355+00

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

226
915

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HIGH ST BETWEEN STATION 355+00 AND 365+00

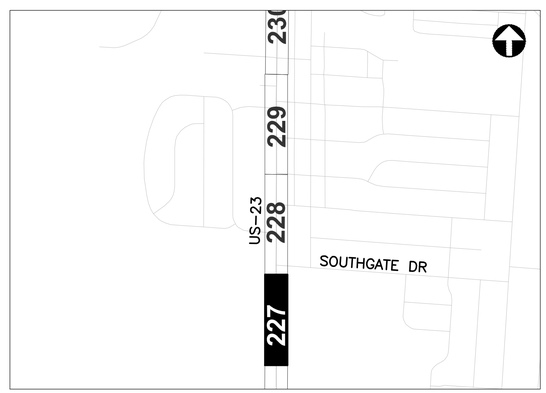
NOTES:

1. SEE SHEET 232 FOR QUANTITIES.
2. SEE SHEET 629 FOR COMMUNICATION DETAILS.

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CITY OF COLUMBUS
UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☒ POWER
- ☒ LIGHTING



REFER TO SHEET 12 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

3378-E

HORIZONTAL SCALE IN FEET
0 40 80

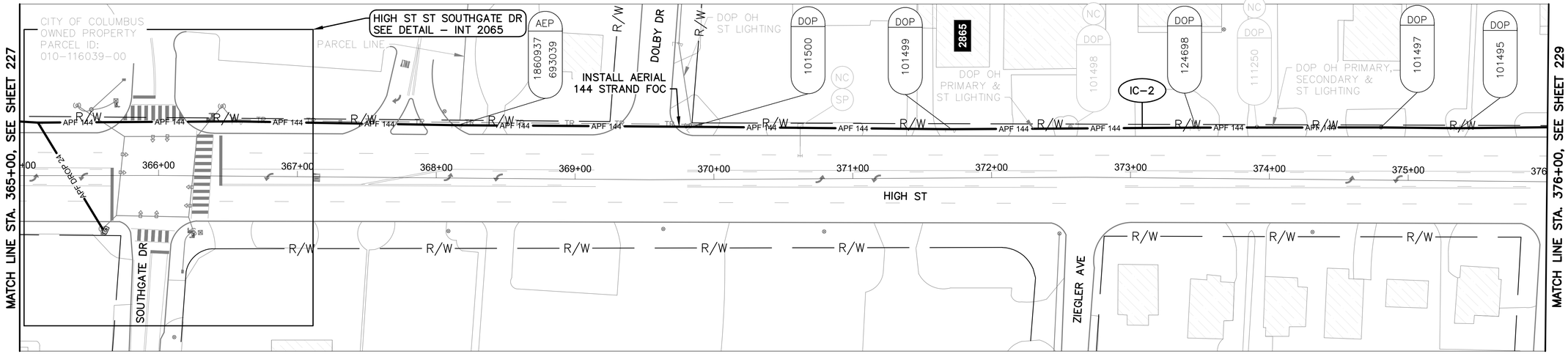
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INTERCONNECT PLAN
HIGH ST BETWEEN STA. 355+00 AND 365+00

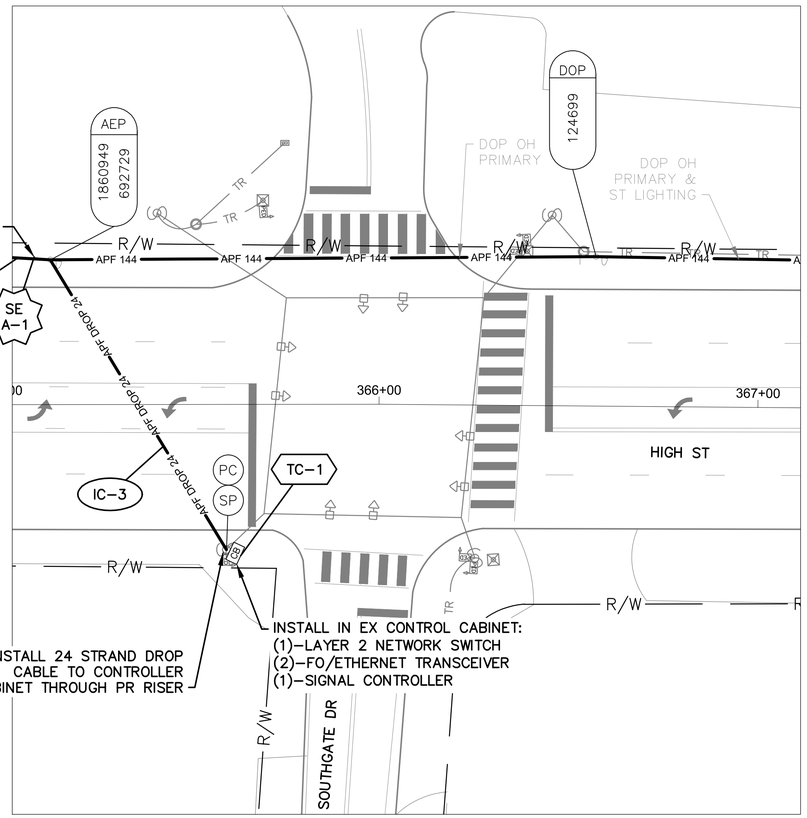
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

227
915

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HIGH ST BETWEEN STATION 365+00 AND 376+00



DETAIL - INT 2065

0 20 40
HORIZONTAL
SCALE IN FEET

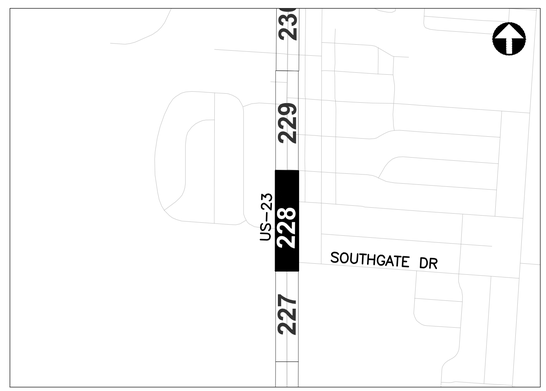
NOTES:

1. SEE SHEET 232 FOR QUANTITIES.
2. SEE SHEETS 629 & 825 FOR COMMUNICATION DETAILS.
3. EXISTING CONDUIT TO CONTROLLER CABINET IS FULL. INSTALL NEW FLEXIBLE CONDUIT TO CABINET FOR PROPOSED DROP CABLE.

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CITY OF COLUMBUS UTILITY LEGEND

☐	SEWER
☐	WATER
☒	POWER
☒	LIGHTING



REFER TO SHEET 12 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

0 40 80
HORIZONTAL
SCALE IN FEET

CIP: 540007-100012
PID NUMBER: 99733

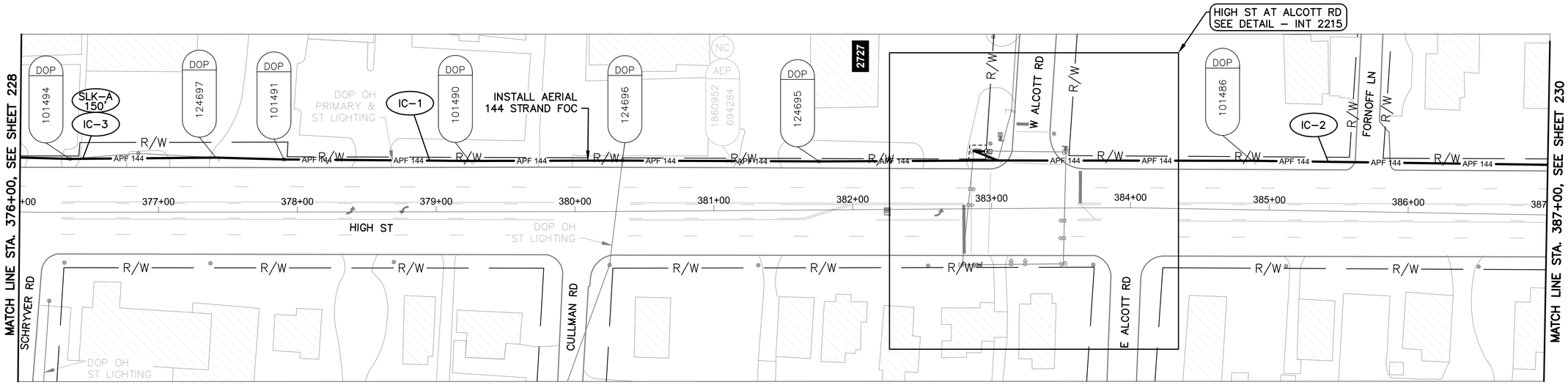
INTERCONNECT PLAN
HIGH ST BETWEEN STA. 365+00 AND 376+00, INT 2065

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

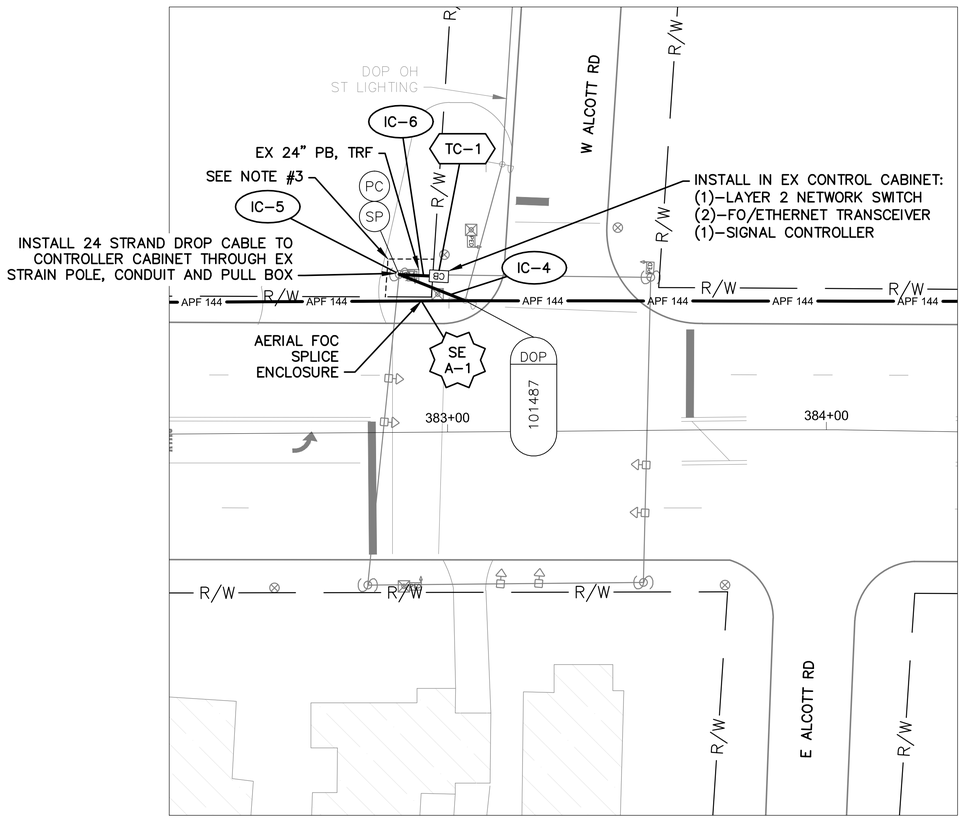
228
915

3378-E

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HIGH ST BETWEEN STATION 376+00 AND 387+00



DETAIL - INT 2215

0 20 40
HORIZONTAL
SCALE IN FEET

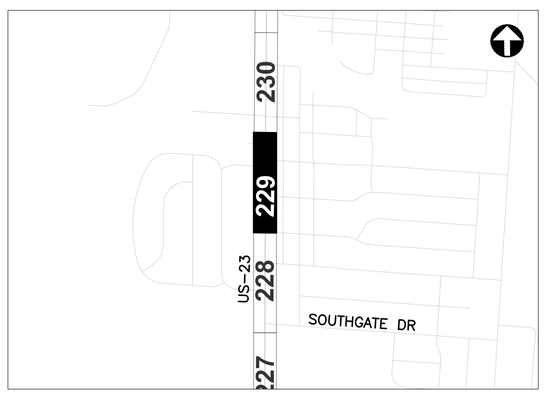
NOTES:

1. SEE SHEET 232 FOR QUANTITIES.
2. SEE SHEETS 629 & 826 FOR COMMUNICATION DETAILS.
3. EXISTING EASEMENT INSTRUMENT #201106100073295 AS SHOWN PER WORK ORDER #45102.

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CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☒ POWER
- ☒ LIGHTING



REFER TO SHEET 12 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

0 40 80
HORIZONTAL
SCALE IN FEET

CIP: 540007-100012
PID NUMBER: 99733

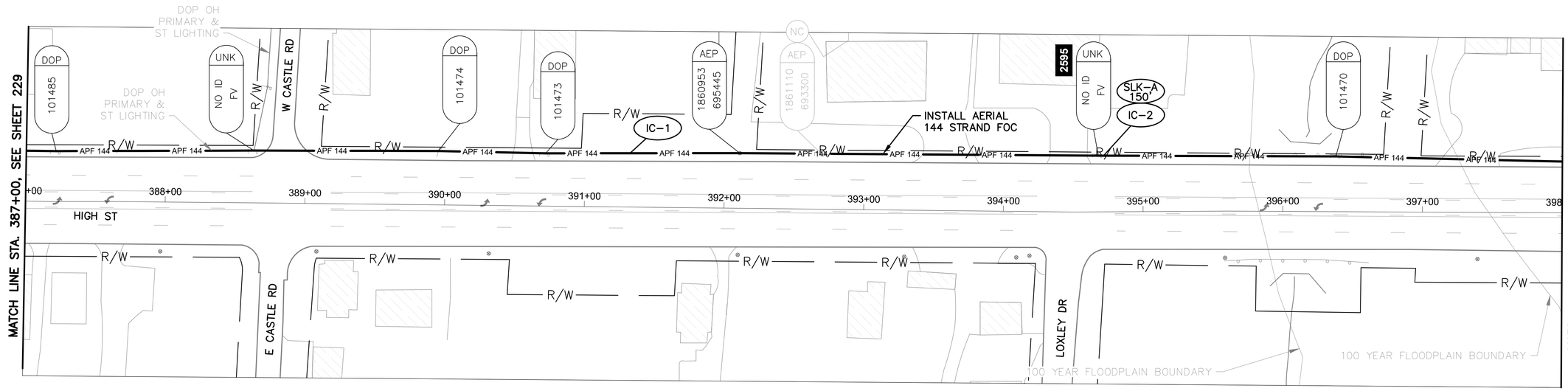
INTERCONNECT PLAN
HIGH ST BETWEEN STA. 376+00 AND 387+00

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

229
915

3378-E

d:\Jobs\63721 CTSS Phase E\TECHPROD\Sheets\CTSS_PhE_Trunk1_US-23_3_INTERCONNECT.dwg ~ HIGH-30 layout ~ last saved by: gburch 09/13/2018 03:48pm ~ printed 09/13/2018 05:15pm PSLTS: 1 LTS: 1 CAS: 1:1



HIGH ST BETWEEN STATION 387+00 AND 398+00

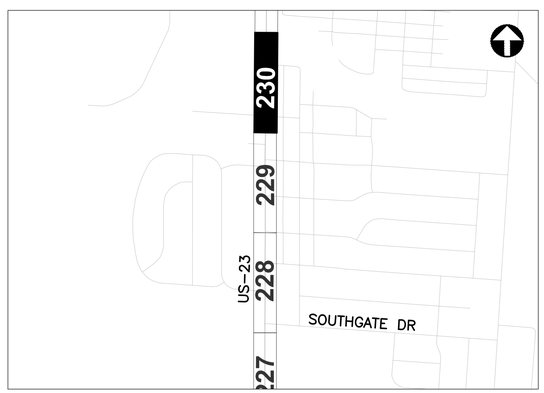
NOTES:

1. SEE SHEET 232 FOR QUANTITIES.
2. SEE SHEET 629 FOR COMMUNICATION DETAILS.

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CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☒ POWER
- ☒ LIGHTING



REFER TO SHEET 12 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

3378-E

HORIZONTAL SCALE IN FEET
0 40 80

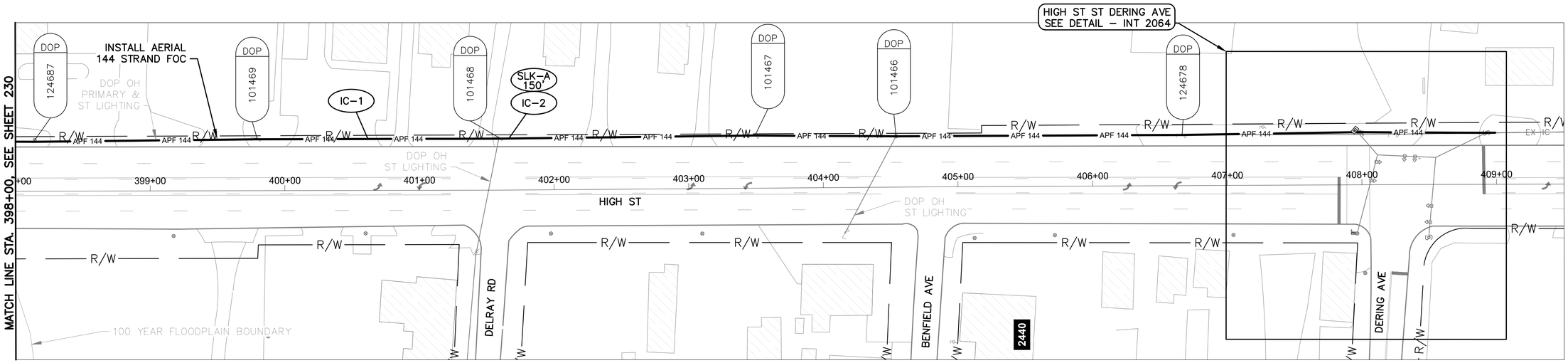
CIP: 540007-100012
PID NUMBER: 99733

INTERCONNECT PLAN
HIGH ST BETWEEN STA. 387+00 AND 398+00

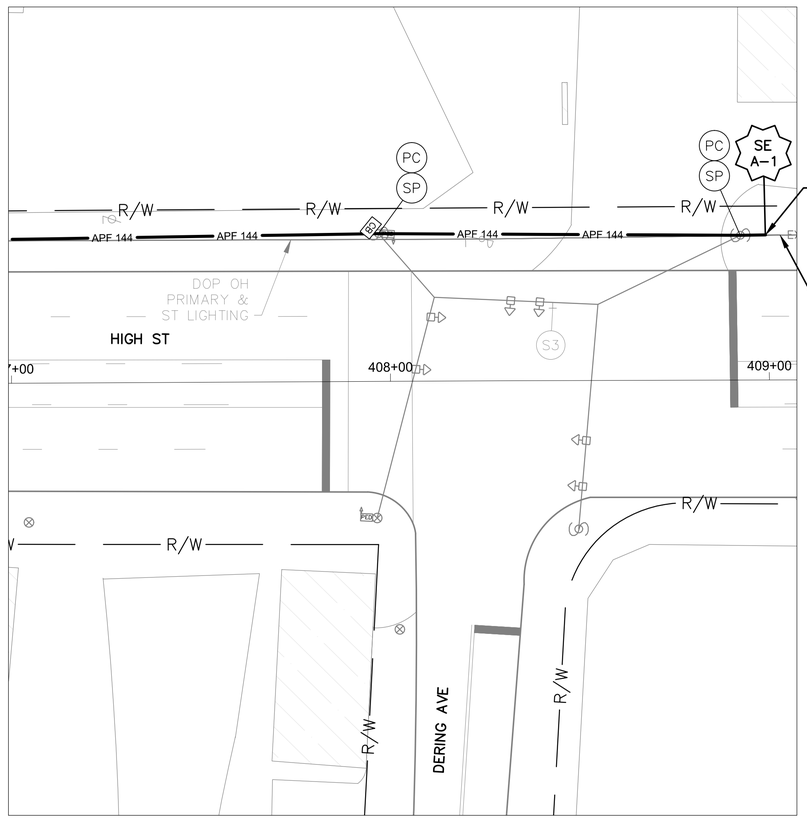
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

230
915

j:\Jobs\63721 ctss phase e\TECHPROD\Sheets\CTSS_PhE_Trunk1_US-23_3_INTERCONNECT.dwg ~ HIGH-31 layout ~ last saved by: gburch 09/11/2018 01:24pm ~ printed 09/11/2018 09:19pm PSLTS: 1 LTS: 1 CAS: 1:1



HIGH ST BETWEEN STATION 398+00 AND 409+00



DETAIL - INT 2064

0 20 40
HORIZONTAL
SCALE IN FEET

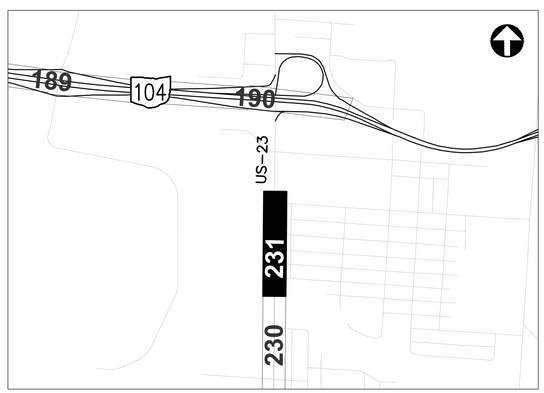
NOTES:

1. SEE SHEET 232 FOR QUANTITIES.
2. SEE SHEETS 629 & 827 FOR COMMUNICATION DETAILS.

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CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☒ POWER
- ☒ LIGHTING



REFER TO SHEET 12 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

0 40 80
HORIZONTAL
SCALE IN FEET

CIP: 540007–100012
PID NUMBER: 99733

INTERCONNECT PLAN
HIGH ST BETWEEN STA. 398+00 AND 409+00

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

231
915

3378-E

d:\Jobs\63721 ctss phase e\TECHPROD\Sheets\CTSS_PhE_Trunk1_US–23_3_INTERCONNECT.dwg ~ HIGH–32 layout ~ last saved by: gburch 09/11/2018 01:24pm ~ printed 09/11/2018 09:22pm PSLTS: 1 LTS: 1 CAS: 1:1

ESTIMATED QUANTITIES

SHEET NO.	REFERENCE NO.	LOCATION	STATION		202	632	632	632	632	632	632	632	632	632	633	633	633								
					EXISTING CONDUIT CLEANED, AS PER PLAN	CONDUIT RISER, 2", 725.04, AS PER PLAN	INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 144 STRAND	INTERCONNECT CABLE, MISC.: FIBER OPTIC DROP CABLE, 24 STRAND	INTERCONNECT CABLE, MISC.: FIBER OPTIC FUSION SPLICE	INTERCONNECT CABLE, MISC.: TERMINATION PANEL, 24 FIBER	INTERCONNECT, MISC.: SPLICE ENCLOSURE, CLAMSHELL, 288 SPLICE	MESSENGER WIRE, 7 STRAND, 1/4" DIAMETER WITH ACCESSORIES, AS PER PLAN	SIGNALIZATION, MISC.: CCTV COMPOSITE CABLE	SIGNALIZATION, MISC.: CCTV IP-CAMERA SYSTEM	CONTROLLER ITEM, MISC.: FIBER OPTIC ETHERNET TRANSCEIVER, SHORT RANGE	CONTROLLER ITEM, MISC.: LAYER 2 ETHERNET SWITCH	CONTROLLER UNIT, TYPE TS2/A2, AS PER PLAN							
			FROM	TO	FT	EACH	FT	FT	EACH	EACH	EACH	FT	FT	EACH	EACH	EACH	EACH							
HIGH ST. BETWEEN STA. 322+00 AND 333+00, INT 2066																									
224	IC-1	HIGH ST	322+00, 58' RT	331+22, 39' LT			1,113					1,113													
224	SE A-1	HIGH ST	331+22, 39' LT				150	125	24		1														
224	IC-3	HIGH ST	331+22, 39' LT	331+22, 39' LT		1		35																	
224	CTV-1	HIGH ST	331+22, 39' LT										70	1											
224	TC-1	HIGH ST	331+22, 39' LT					10		1			20		2	1	1								
224	IC-2	HIGH ST	331+22, 39' LT	333+00, 38' LT			180					180													
HIGH ST. BETWEEN STA. 333+00 AND 344+00																									
225	IC-1	HIGH ST	333+00, 38' LT	344+00, 38' LT			1,105					1,105													
225	IC-2	HIGH ST	342+44, 36' LT				150																		
HIGH ST. BETWEEN STA. 344+00 AND 355+00																									
226	IC-1	HIGH ST	344+00, 38' LT	355+00, 35' LT			1,114					1,114													
HIGH ST. BETWEEN STA. 355+00 AND 365+00																									
227	IC-1	HIGH ST	355+00, 35' LT	365+00, 39' LT			1,015					1,015													
227	IC-2	HIGH ST	355+15, 35' LT				150																		
HIGH ST. BETWEEN STA. 365+00 AND 376+00, INT 2065																									
228	IC-1	HIGH ST	365+00, 39' LT	365+09, 39' LT			9					9													
228	SE A-1	HIGH ST	365+13, 38' LT				150	125	24		1														
228	IC-3	HIGH ST	365+13, 38' LT	365+59, 38' RT				91				91													
228	TC-1	HIGH ST	365+59, 38' RT			1		45		1					2	1	1								
228	IC-2	HIGH ST	365+09, 39' LT	376+00, 39' LT			1,091					1,091													
HIGH ST. BETWEEN STA. 376+00 AND 387+00, INT 2215																									
229	IC-1	HIGH ST	376+00, 39' LT	383+04, 35' LT			715					715													
229	IC-3	HIGH ST	376+45, 38' LT				150																		
229	IC-5	HIGH ST	382+87, 42' LT					35																	
229	IC-6	HIGH ST	382+87, 42' LT	382+97, 41' LT	10			10																	
229	IC-4	HIGH ST	382+87, 42' LT	383+04, 35' LT				29				19													
229	TC-1	HIGH ST	382+97, 41' LT					10		1					2	1	1								
229	SE A-1	HIGH ST	383+04, 35' LT				150	125	24		1														
229	IC-2	HIGH ST	383+04, 35' LT	387+00, 36' LT			402					402													
HIGH ST. BETWEEN STA. 387+00 AND 398+00																									
230	IC-1	HIGH ST	387+00, 36' LT	398+00, 38' LT			1,117					1,117													
230	IC-2	HIGH ST	394+72, 41' LT				150																		
HIGH ST. BETWEEN STA. 398+00 AND 409+00, INT 2064																									
231	IC-1	HIGH ST	398+00, 38' LT	409+00, 38' LT			1,115					1,115													
231	IC-2	HIGH ST	401+67, 42' LT				150																		
231	SE A-1	HIGH ST	409+00, 38' LT				75		144																
SHEET TOTAL					10	2	10,251	640	216	3	3	9,086	90	1	6	3	3	-	-	-	-	-	-	-	

AERIAL SAG: 1.5% AERIAL SAG IS INCLUDED IN THE QUANTITIES FOR ANY AERIAL FIBER OR CABLE ITEMS.

3378-E

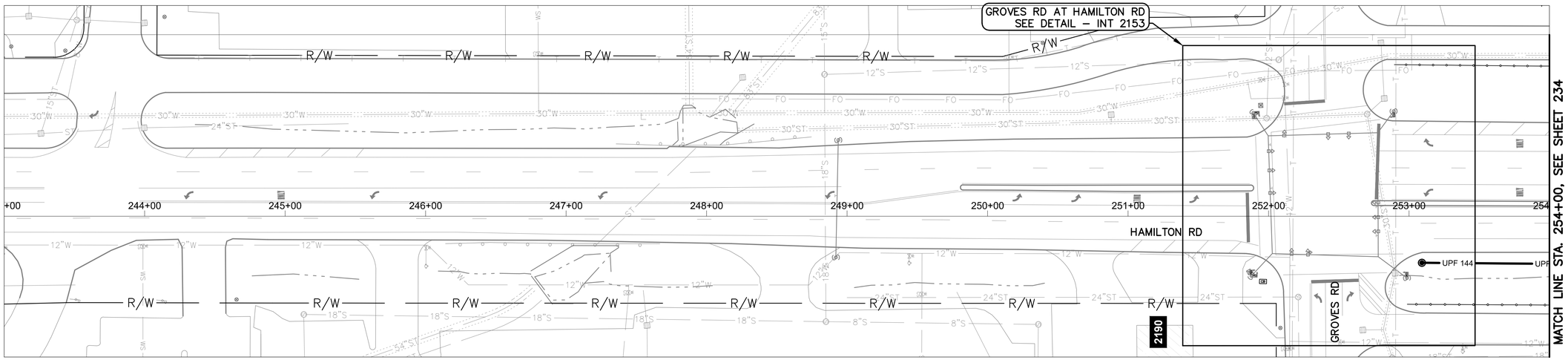
CIP: 540007-100012
PID NUMBER: 99733

HIGH ST BETWEEN STA. 322+00 & 409+00
INTS 2066, 2065, 2215, 2064

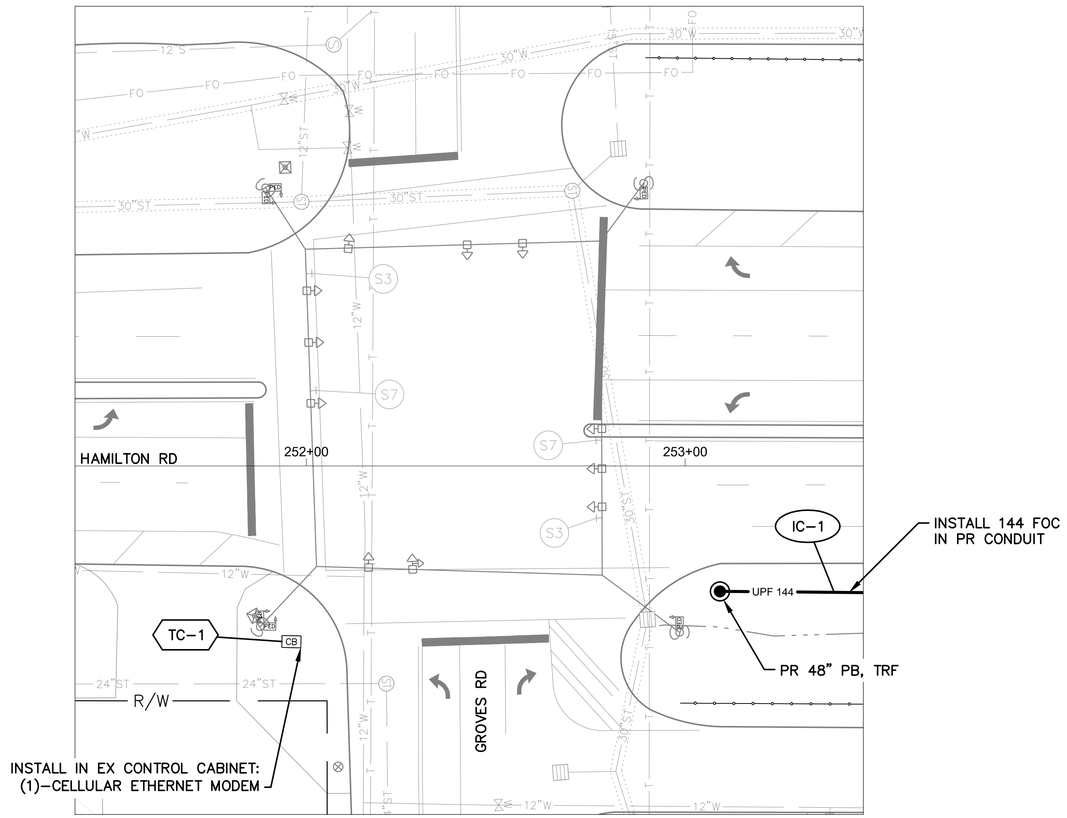
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

232
915

J:\Jobs\63721 CTSS Phase E\TECHPROD\Sheets\CTSS_PhE_Trunk1_HIGH_IC_QUANTITIES.dwg – HIGH ST-05 layout ~ last saved by: gburch 09/11/2018 08:01am ~ printed 09/18/2018 09:55am PS:TS: 1 LTS: 1 CAS: 1:1



HAMILTON RD BETWEEN STATION 243+00 AND 254+00



DETAIL - INT 2153

0 20 40
HORIZONTAL
SCALE IN FEET

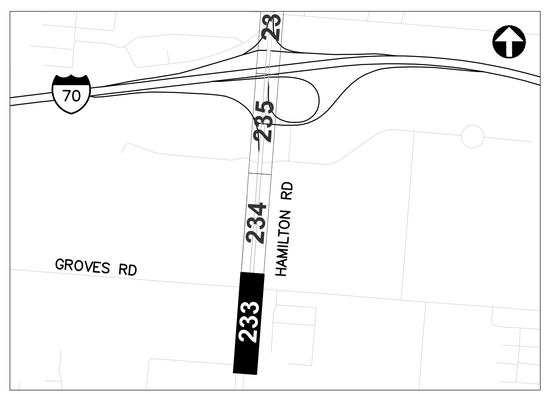
NOTES:

1. SEE SHEET 238 FOR QUANTITIES.
2. SEE SHEETS 631 & 849 FOR COMMUNICATION DETAILS.

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CITY OF COLUMBUS UTILITY LEGEND

- SEWER
- WATER
- POWER
- LIGHTING



REFER TO SHEET 13 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

0 40 80
HORIZONTAL
SCALE IN FEET

CIP: 540007–100012
PID NUMBER: 99733

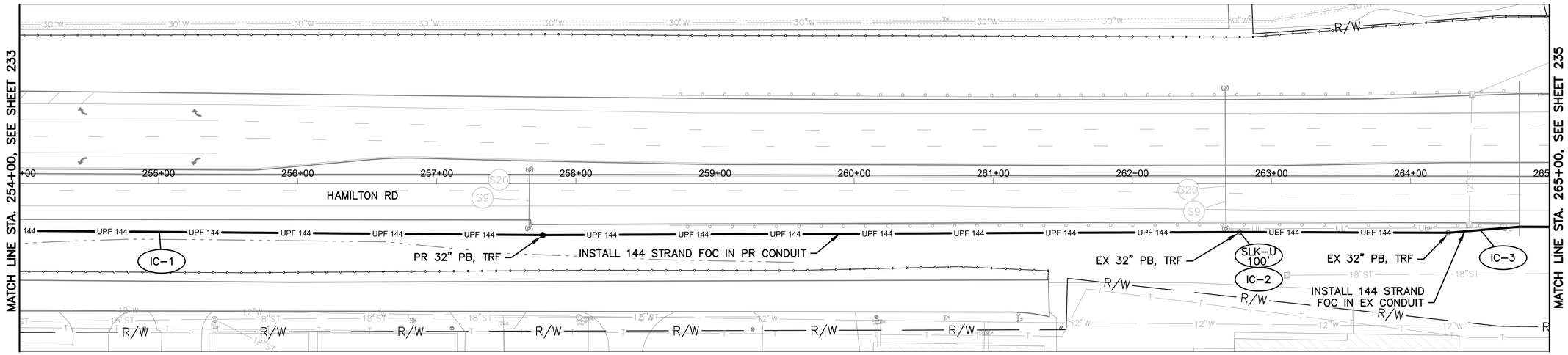
INTERCONNECT PLAN
HAMILTON RD BETWEEN STA. 243+00 AND 254+00, INT 2153

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

233
915

3378-E

J:\Jobs\63721 ctss phase e\TECHPROD\Sheets\CTSS_PhE_Trunk1_S_HAMILTON_2_INTERCONNECT.dwg ~ HAMILTON-15 layout ~ last saved by: gburch 09/05/2018 02:28pm ~ printed 09/11/2018 09:25pm PSLTS: 1 LTS: 1 CAS: 1:1



HAMILTON RD BETWEEN STATION 254+00 AND 265+00

NOTES:

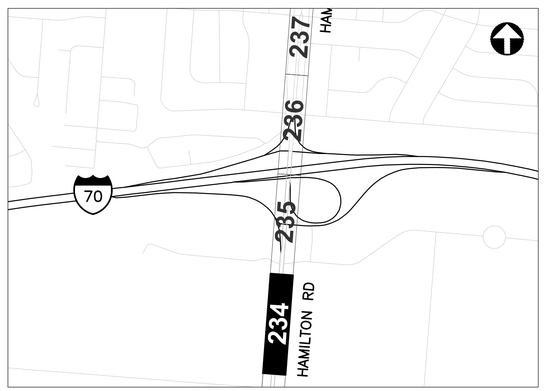
1. SEE SHEET 238 FOR QUANTITIES.
2. SEE SHEET 631 FOR COMMUNICATION DETAILS.

(#) EXISTING UTILITY CROSSING. SEE UTILITY CROSSING INFO SHEET 17.

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CITY OF COLUMBUS UTILITY LEGEND

- [X] SEWER
- [X] WATER
- [ ] POWER
- [ ] LIGHTING



REFER TO SHEET 13 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

HORIZONTAL SCALE IN FEET
0 40 80

CIP: 540007-100012
PID NUMBER: 99733

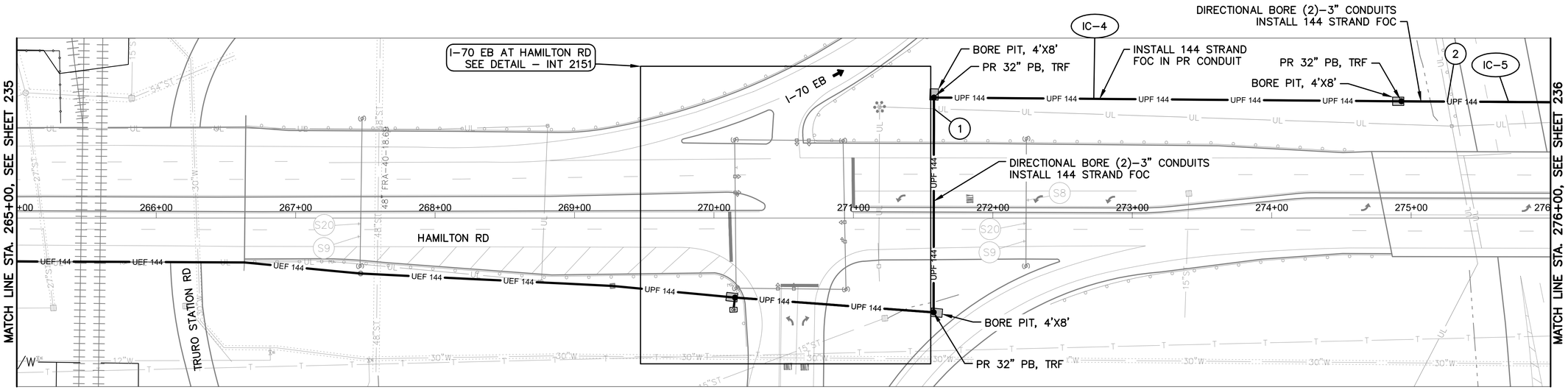
INTERCONNECT PLAN
HAMILTON RD BETWEEN STA. 254+00 AND 265+00

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

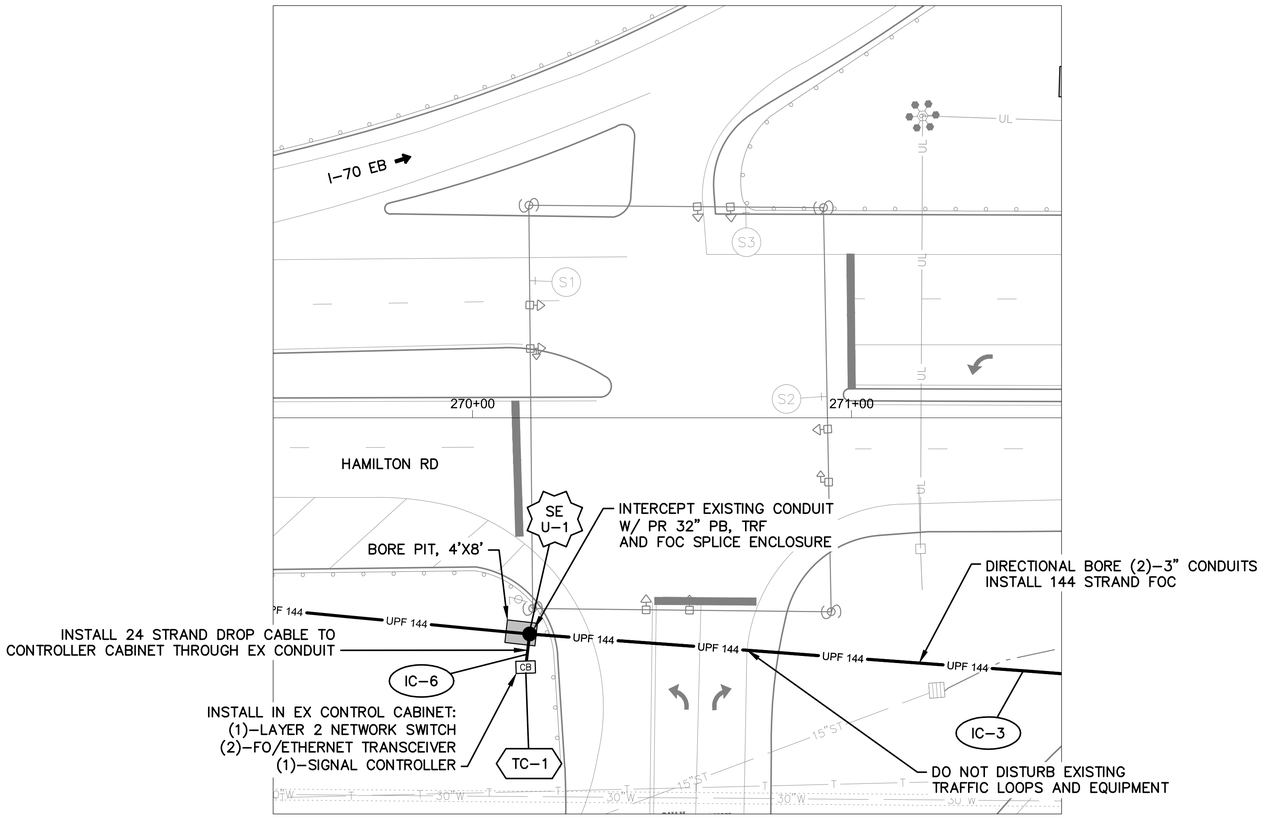
3378-E

234
915

J:\Jobs\63721 ctss phase e\TECHPROD\Sheets\CTSS_PhE_Trunk1_S_HAMILTON_2_INTERCONNECT.dwg ~ HAMILTON-16 layout ~ last saved by: gburch 09/05/2018 02:28pm ~ printed 09/11/2018 09:27pm PSLTS: 1 LTS: 1 CAS: 1:1



HAMILTON RD BETWEEN STATION 265+00 AND 276+00



DETAIL - INT 2151

0 20 40
HORIZONTAL
SCALE IN FEET

NOTES:

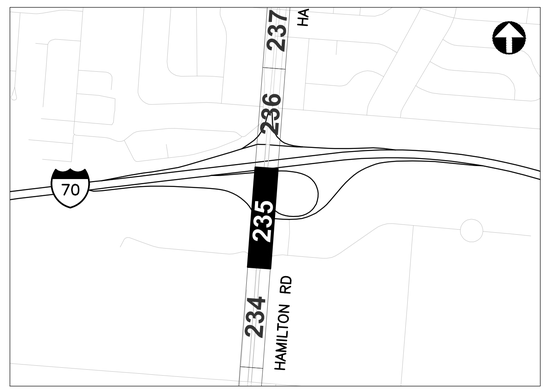
1. SEE SHEET 238 FOR QUANTITIES.
2. SEE SHEETS 631 & 850 FOR COMMUNICATION DETAILS.
3. LIMITED ACCESS RIGHT OF WAY IS LOCATED OUTSIDE OF THE EXTENT OF VIEW SHOWN ABOVE.

(#) EXISTING UTILITY CROSSING.
SEE UTILITY CROSSING INFO
SHEET 17.

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CITY OF COLUMBUS
UTILITY LEGEND

- ☒ SEWER
- ☒ WATER
- ☐ POWER
- ☒ LIGHTING



REFER TO SHEET 13 FOR
INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

0 40 80
HORIZONTAL
SCALE IN FEET

CIP: 540007-100012
PID NUMBER: 99733

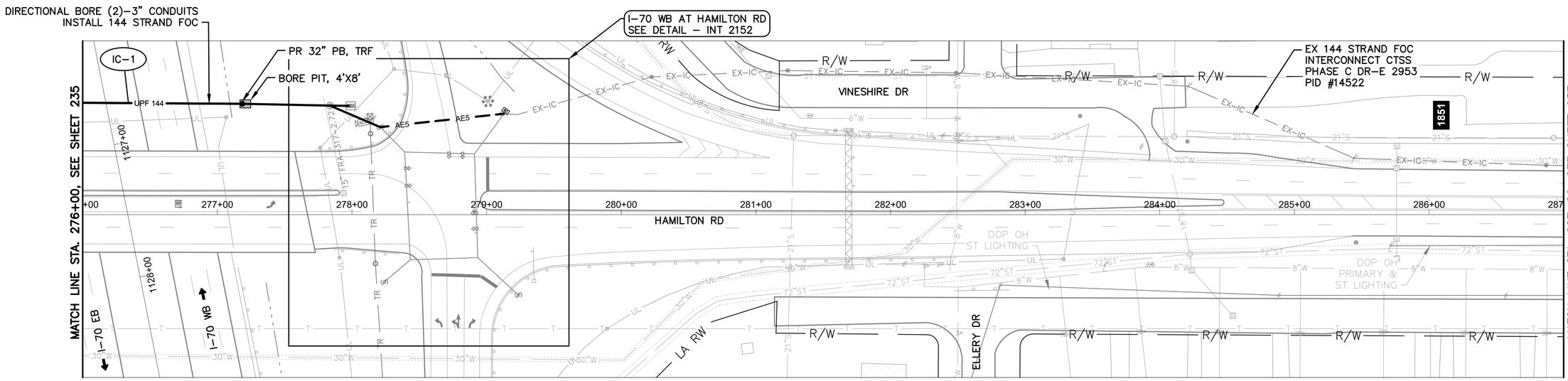
INTERCONNECT PLAN
HAMILTON RD BETWEEN STA. 265+00 AND 276+00

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

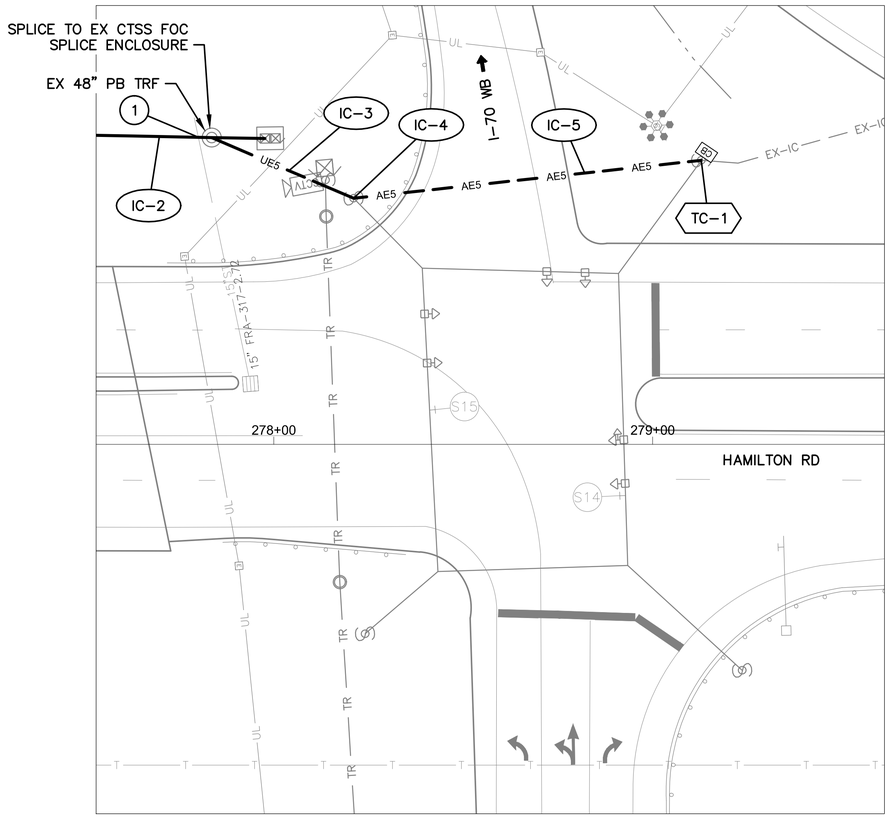
3378-E

235
915

J:\Jobs\6372\1 ctss phase e\TECHPROD\Sheets\CTSS_PhE_Trunk1_S_HAMILTON_2_INTERCONNECT.dwg – HAMILTON-17 layout ~ last saved by: gburch 09/05/2018 02:28pm ~ printed 09/11/2018 09:30pm PSLTS: 1 LTS: 1 CAS: 1:1



HAMILTON RD BETWEEN STATION 276+00 AND 287+00



DETAIL - INT 2152

0 20 40
HORIZONTAL
SCALE IN FEET

NOTES:

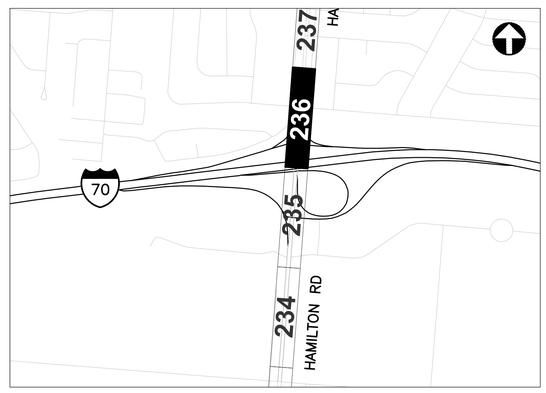
1. SEE SHEET 238 FOR QUANTITIES.
2. SEE SHEETS 631 & 851 FOR COMMUNICATION DETAILS.

(#) EXISTING UTILITY CROSSING.
SEE UTILITY CROSSING INFO
SHEET 17.

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CITY OF COLUMBUS
UTILITY LEGEND

- SEWER
- WATER
- POWER
- LIGHTING



REFER TO SHEET 13 FOR
INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

3378-E

0 40 80
HORIZONTAL
SCALE IN FEET

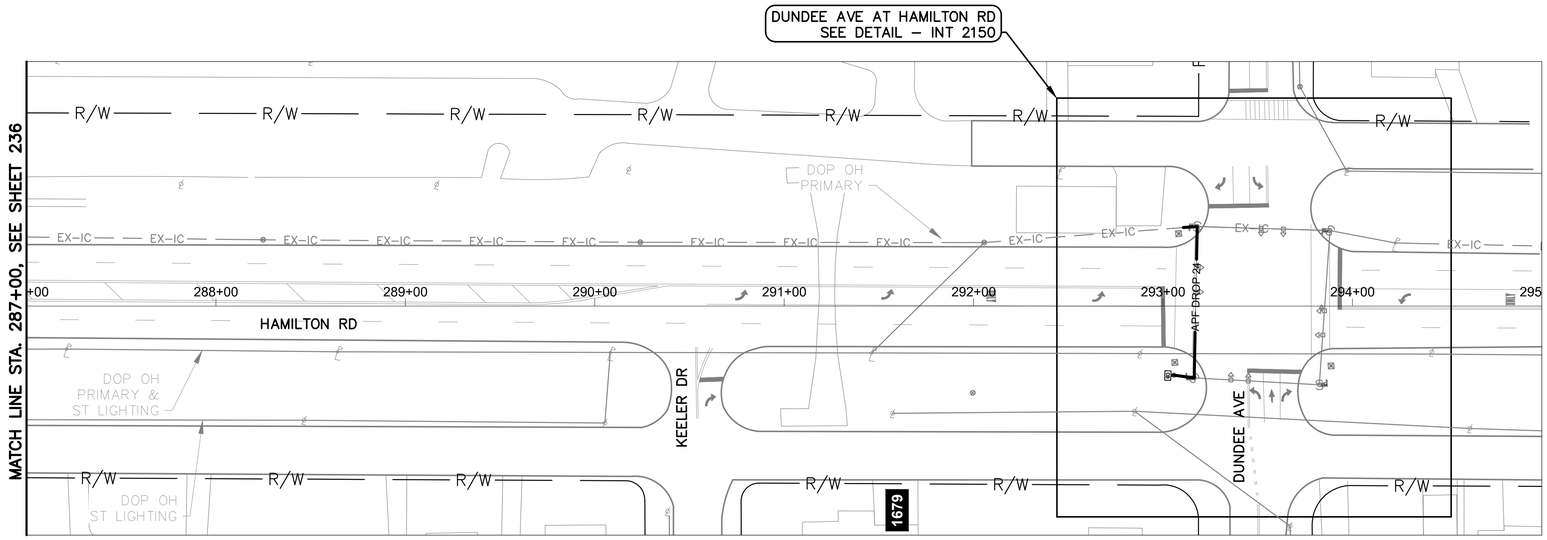
CIP: 540007–100012
PID NUMBER: 99733

INTERCONNECT PLAN
HAMILTON RD BETWEEN STA. 276+00 AND 287+00, INT 2152

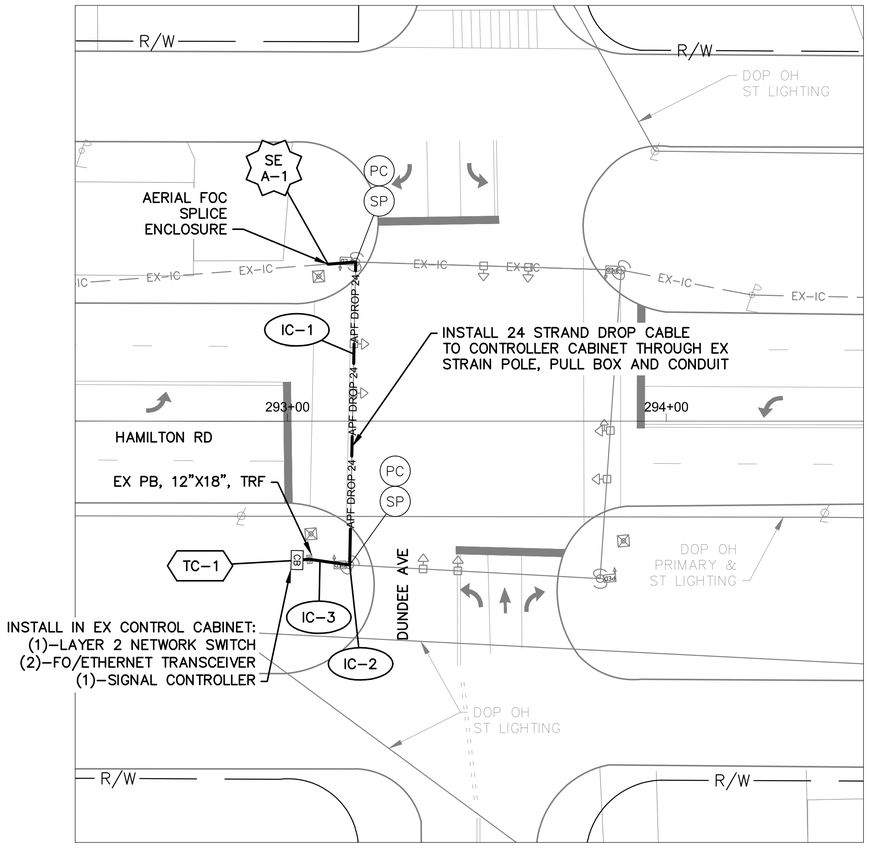
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

236
915

J:\Jobs\63721 ctss phase e\TECHPROD\Sheets\CTSS_PhE_Trunk1_S_HAMILTON_2_INTERCONNECT.dwg – HAMILTON–18 layout ~ last saved by gburch 09/05/2018 02:28pm ~ printed 09/11/2018 09:32pm PSLTS: 1 LTS: 1 CAS: 1:1



HAMILTON RD BETWEEN STATION 287+00 AND 295+00



DETAIL - INT 2150

0 20 40
HORIZONTAL
SCALE IN FEET

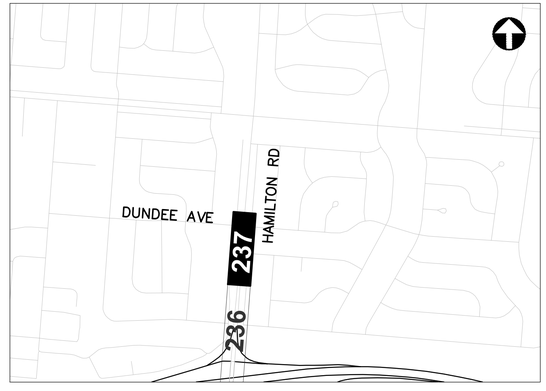
NOTES:

1. SEE SHEET 238 FOR QUANTITIES.
2. SEE SHEETS 631 & 852 FOR COMMUNICATION DETAILS.

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CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☒ POWER
- ☒ LIGHTING



REFER TO SHEET 13 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

0 40 80
HORIZONTAL
SCALE IN FEET

CIP: 540007–100012
PID NUMBER: 99733

INTERCONNECT PLAN
HAMILTON RD BETWEEN STA. 287+00 AND 295+00, INT 2150

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

237
915

3378-E

J:\Jobs\63721 ctss phase e\TECHPROD\Sheets\CTSS_PhE_Trunk1_S_HAMILTON_2_INTERCONNECT.dwg – HAMILTON-19 layout ~ last saved by gburch 09/05/2018 02:28pm ~ printed 09/11/2018 08:35pm PSLTS: 1 LTS: 1 CAS: 1:1

ESTIMATED QUANTITIES

SHEET NO.	REFERENCE NO.	LOCATION	STATION		202	625	625	625	625	632	632	632	632	632	632	632	632	633	633	633			
					EXISTING CONDUIT CLEANED, AS PER PLAN	CONDUIT, CONCRETE ENCASED, 2-3", 725.05, AS PER PLAN	CONDUIT, JACKED OR DRILLED, 3", AS PER PLAN	PULL BOX, CONCRETE 32", AS PER PLAN	TRENCH, 36" DEEP, AS PER PLAN	INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 144 STRAND	INTERCONNECT CABLE, MISC.: FIBER OPTIC DROP CABLE, 24 STRAND	INTERCONNECT CABLE, MISC.: FIBER OPTIC FUSION SPLICE	INTERCONNECT CABLE, MISC.: OVERLASH TO EXISTING INTERCONNECT	INTERCONNECT CABLE, MISC.: TERMINATION PANEL, 24 FIBER	INTERCONNECT, MISC.: CAT 5E CABLE, OUTDOOR RATED	INTERCONNECT, MISC.: SPLICE ENCLOSURE, CLAMSHELL, 288 SPLICE	MESSENGER WIRE, 7 STRAND, 1/4" DIAMETER WITH ACCESSORIES, AS PER PLAN	SIGNALIZATION, MISC.: CELLULAR ETHERNET COMMUNICATIONS UNIT	CONTROLLER ITEM, MISC.: FIBER OPTIC ETHERNET TRANSCEIVER, SHORT RANGE	CONTROLLER ITEM, MISC.: LAYER 2 ETHERNET SWITCH	CONTROLLER UNIT, TYPE TS2/A2, AS PER PLAN			
			FROM	TO	FT	FT	FT	EACH	FT	FT	FT	EACH	FT	EACH	FT	EACH	FT	EACH	EACH	EACH	EACH			
HAMILTON RD. BETWEEN STA. 243+00 AND 254+00, INT 2153																							
233	TC-1	HAMILTON RD	251+96, 46' RT															1					
233	IC-1	HAMILTON RD	253+08, 32' RT	254+00, 33' RT		92			92	92													
233	IC-2	HAMILTON RD	253+08, 32' RT							250													
HAMILTON RD. BETWEEN STA. 254+00 AND 265+00																							
234	IC-1	HAMILTON RD	254+00, 33' RT	262+77, 35' RT		878		1	878	878													
234	IC-2	HAMILTON RD	262+77, 35' RT							100													
234	IC-3	HAMILTON RD	262+77, 35' RT	265+00, 31' RT	223					223													
HAMILTON RD. BETWEEN STA. 265+00 AND 276+00, INT 2151																							
235	IC-1	HAMILTON RD	265+00, 31' RT	267+47, 40' RT	247					247													
235	IC-2	HAMILTON RD	267+47, 40' RT	270+15, 57' RT		269			269	269													
235	TC-1	HAMILTON RD	270+14, 66' RT								10			1						2	1	1	
235	IC-6	HAMILTON RD	270+14, 66' RT	270+15, 57' RT	9						9												
235	SE U-1	HAMILTON RD	270+15, 57' RT							150	125	24				1							
235	IC-3	HAMILTON RD	270+15, 57' RT	271+56, 86' LT			594			297													
235	IC-4	HAMILTON RD	271+56, 86' LT	274+93, 84' LT		335			335	335													
235	IC-5	HAMILTON RD	274+93, 84' LT	276+00, 83' LT			214			107													
HAMILTON RD. BETWEEN STA. 276+00 AND 287+00, INT 2152																							
236	IC-1	HAMILTON RD	276+00, 47' LT	277+63, 54' LT			334			167													
236	IC-2	HAMILTON RD	277+63, 54' LT	277+84, 81' LT		33		1	33	33													
236	IC-3	HAMILTON RD	277+98, 81' LT	278+21, 65' LT	55										55								
236	IC-4	HAMILTON RD	278+21, 65' LT												35								
236	IC-5	HAMILTON RD	278+21, 65' LT	279+13, 75' LT									92		93								
236	TC-1	HAMILTON RD	279+13, 75' LT												45					1	1		
HAMILTON RD. BETWEEN STA. 287+00 AND 295+00, INT 2150																							
237	TC-1	HAMILTON RD	293+03, 37' RT							10			1						2	1	1		
237	IC-3	HAMILTON RD	293+03, 37' RT	293+16, 38' RT	14					14													
237	IC-2	HAMILTON RD	293+16, 38' RT							35													
237	IC-1	HAMILTON RD	293+16, 38' RT	293+18, 42' LT						88							87						
237	SE A-1	HAMILTON RD	293+18, 42' LT							125	24					1							
SHEET TOTAL					548	1,607	1,142	2	1,607	3,148	416	48	92	2	228	2	87	1	4	3	3	-	-	-

AERIAL SAG: 1.5% AERIAL SAG IS INCLUDED IN THE QUANTITIES FOR ANY AERIAL FIBER OR CABLE ITEMS.

3378-E

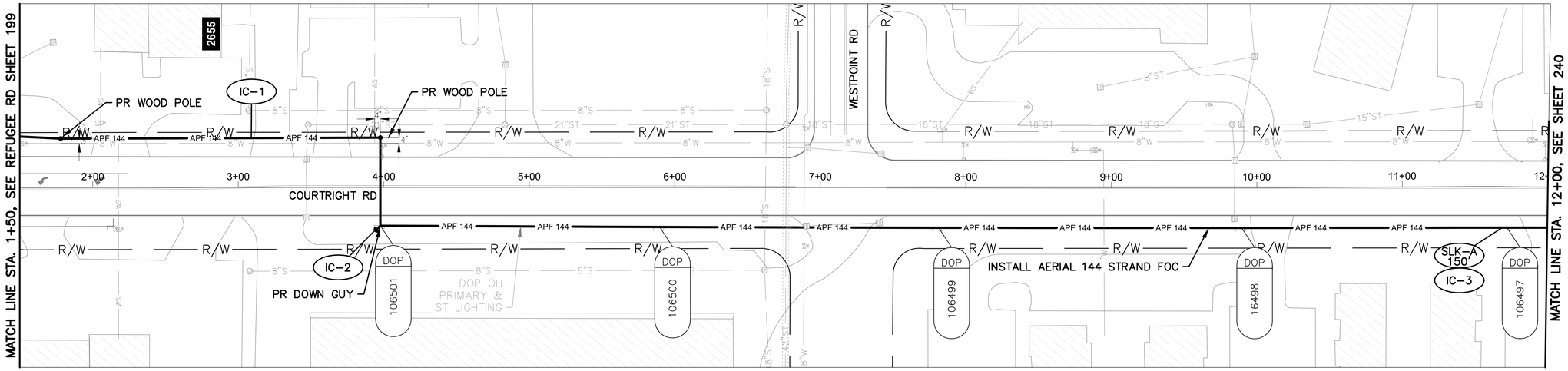
CIP: 540007-100012
PID NUMBER: 99733

HAMILTON RD BETWEEN STA. 243+00 & 295+00
INTS 2153, 2151, 2152, 2150

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

238
915

J:\Jobs\63721 CTSS Phase E\TECHPROD\Sheets\CTSS_PhE_Trunk1_HAMILTON_JC_QUANTITIES.dwg ~ HAMILTON RD_Q2 layout ~ last saved by: gburch 09/11/2018 08:03am ~ printed 09/18/2018 09:55am PSLTS: 1 LTS: 1 CAS: 1:1



COURTRIGHT RD BETWEEN STATION 1+50 AND 12+00

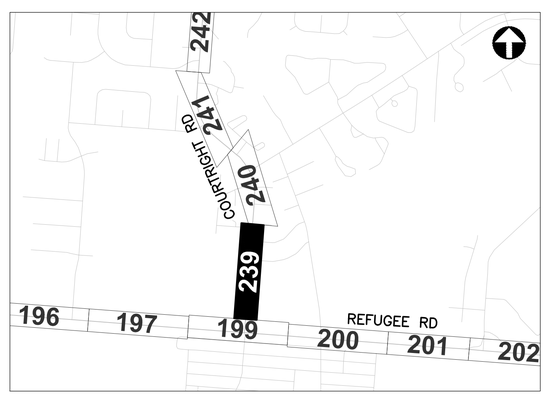
NOTES:

1. SEE SHEET 244 FOR QUANTITIES.
2. SEE SHEET 630 FOR COMMUNICATION DETAILS.

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CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☒ POWER
- ☒ LIGHTING



REFER TO SHEET 13 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

HORIZONTAL SCALE IN FEET
0 40 80

CIP: 540007-100012
PID NUMBER: 99733

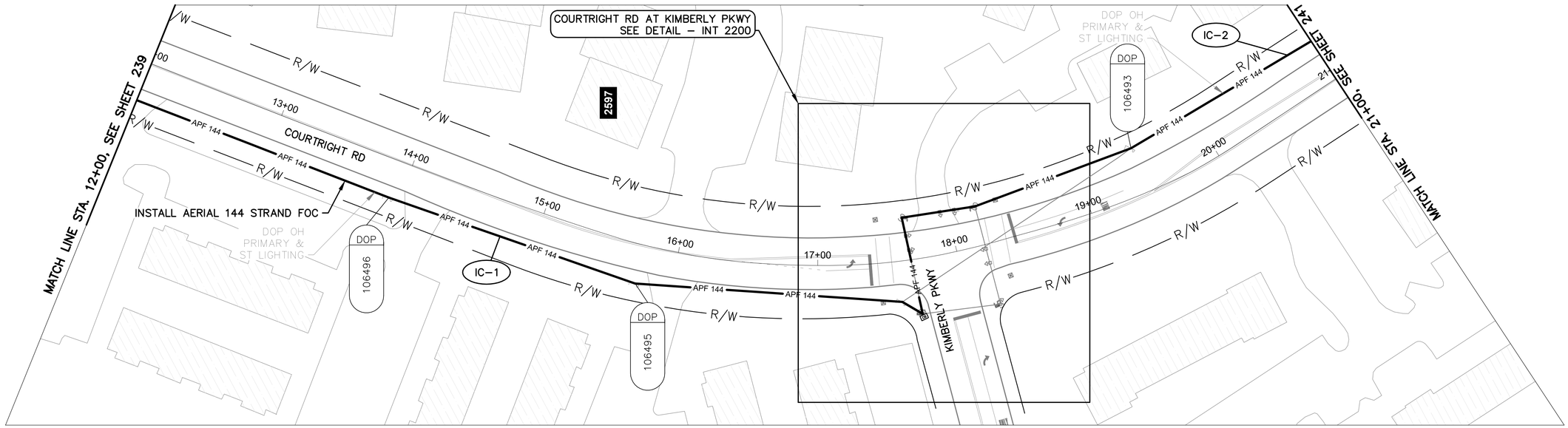
INTERCONNECT PLAN
COURTRIGHT RD BETWEEN STA. 1+00 AND 12+00

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

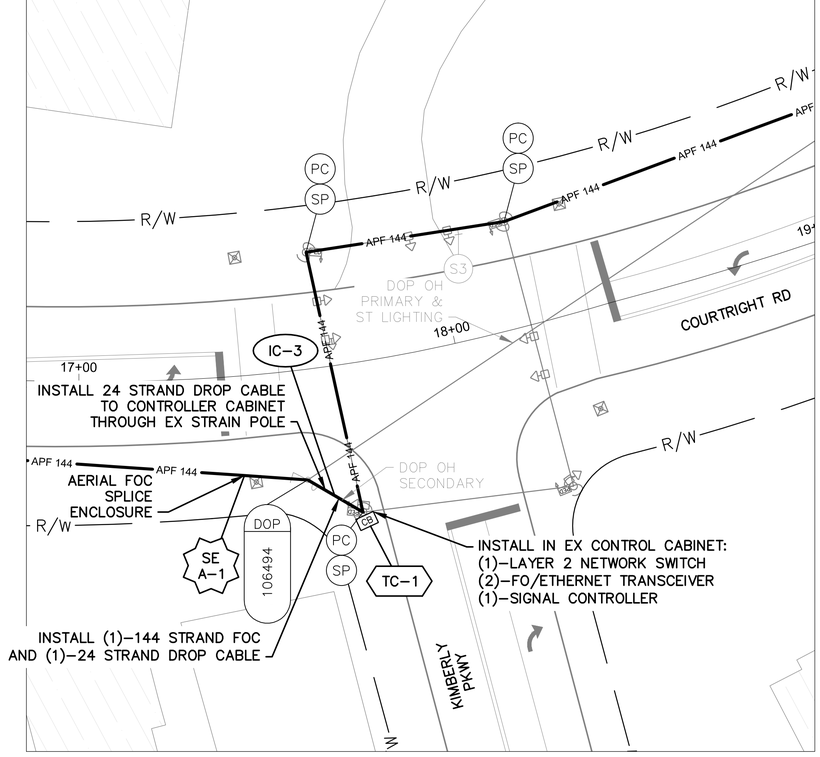
239
915

3378-E

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COURTRIGHT RD BETWEEN STATION 12+00 AND 21+00



DETAIL - INT 2200

0 20 40
HORIZONTAL SCALE IN FEET

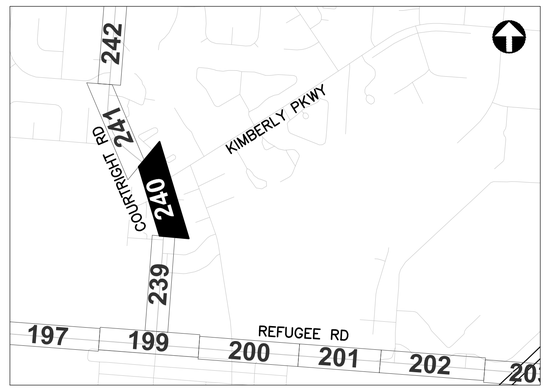
NOTES:

1. SEE SHEET 244 FOR QUANTITIES.
2. SEE SHEETS 630 & 843 FOR COMMUNICATION DETAILS.
3. EXISTING CONDUIT TO CONTROLLER CABINET IS FULL. INSTALL NEW FLEXIBLE CONDUIT TO CABINET FOR PROPOSED DROP CABLE.

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CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☒ POWER
- ☒ LIGHTING



REFER TO SHEET 13 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

0 40 80
HORIZONTAL SCALE IN FEET

CIP: 540007–100012
PID NUMBER: 99733

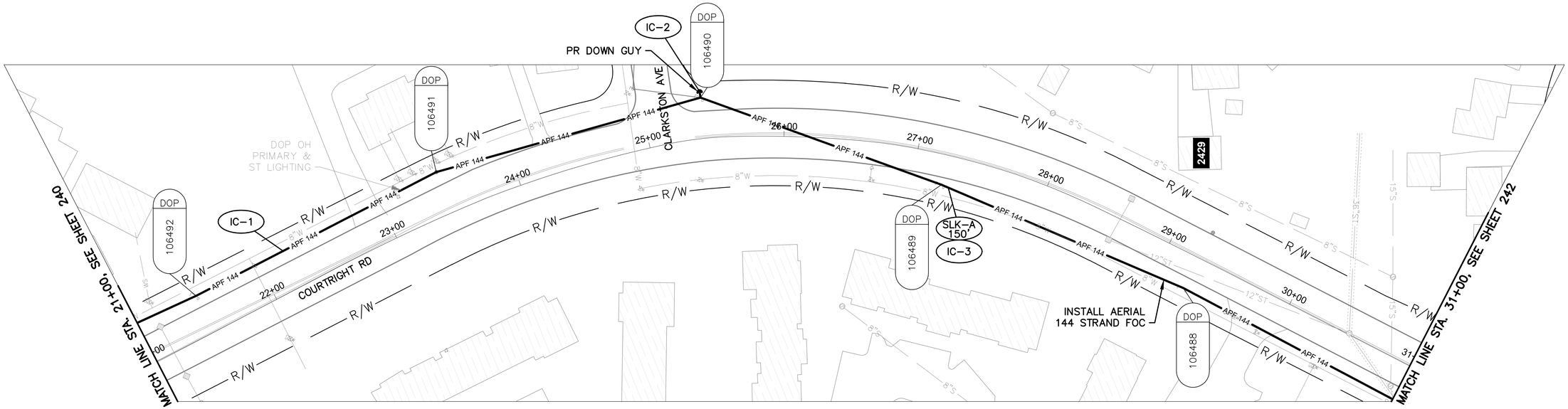
INTERCONNECT PLAN
COURTRIGHT RD BETWEEN STA. 12+00 AND 21+00, INT 2200

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

240
915

3378-E

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COURTRIGHT RD BETWEEN STATION 21+00 AND 31+00

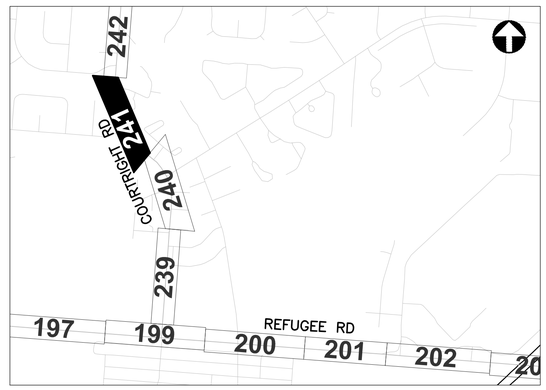
NOTES:

1. SEE SHEET 244 FOR QUANTITIES.
2. SEE SHEET 630 FOR COMMUNICATION DETAILS.

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CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☒ POWER
- ☒ LIGHTING



REFER TO SHEET 13 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

HORIZONTAL SCALE IN FEET
0 40 80

CIP: 540007-100012
PID NUMBER: 99733

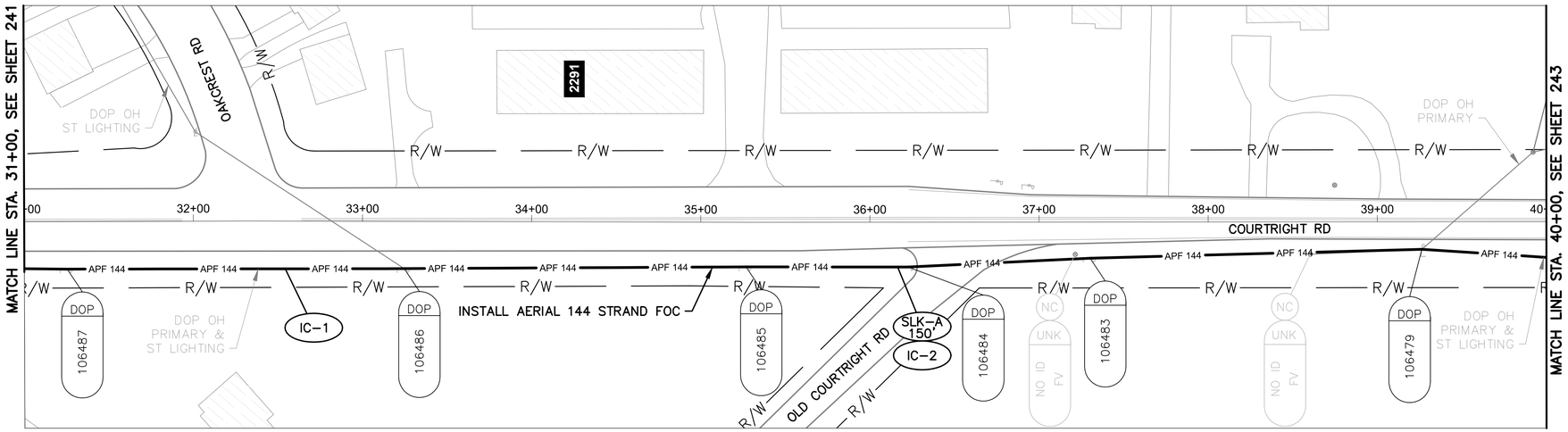
INTERCONNECT PLAN
COURTRIGHT RD BETWEEN STA. 21+00 AND 31+00

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

241
915

3378-E

j:\jobs\63721 ctss phase e\TECHPROD\Sheets\CTSS_PhE_Trunk1_COURTRIGHT_INTERCONNECT.dwg – COURTRIGHT-3 layout ~ last saved by: gburch 08/20/2018 07:03pm ~ printed 09/11/2018 09:41pm PSLTS: 1 LTS: 1 CAS: 1:1



COURTRIGHT RD BETWEEN STATION 31+00 AND 40+00

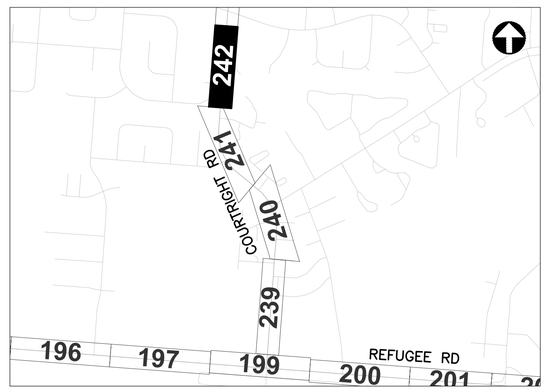
NOTES:

1. SEE SHEET 244 FOR QUANTITIES.
2. SEE SHEET 631 FOR COMMUNICATION DETAILS.

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CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☒ POWER
- ☒ LIGHTING



REFER TO SHEET 13 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

3378-E

HORIZONTAL SCALE IN FEET
0 40 80

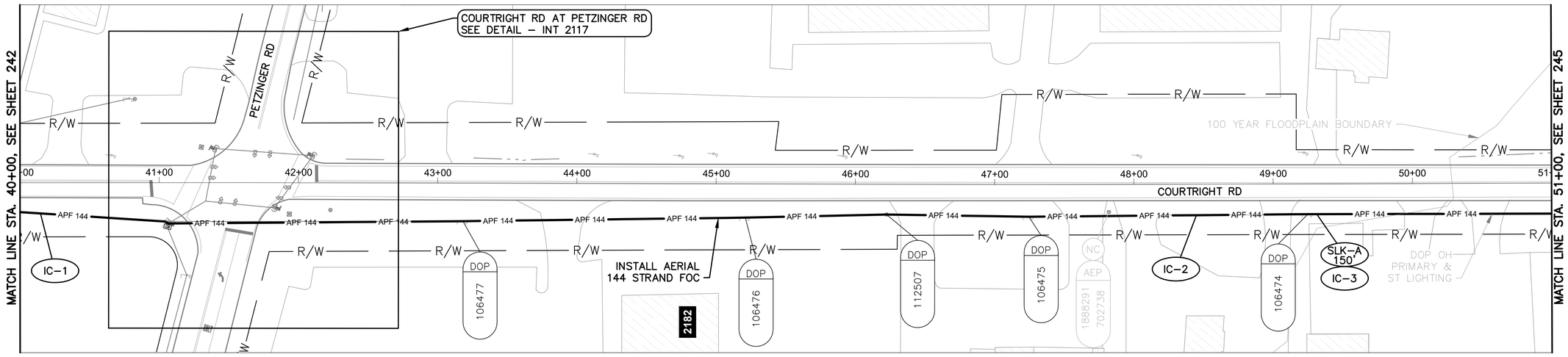
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PID NUMBER: 99733

INTERCONNECT PLAN
COURTRIGHT RD BETWEEN STA. 31+00 AND 40+00

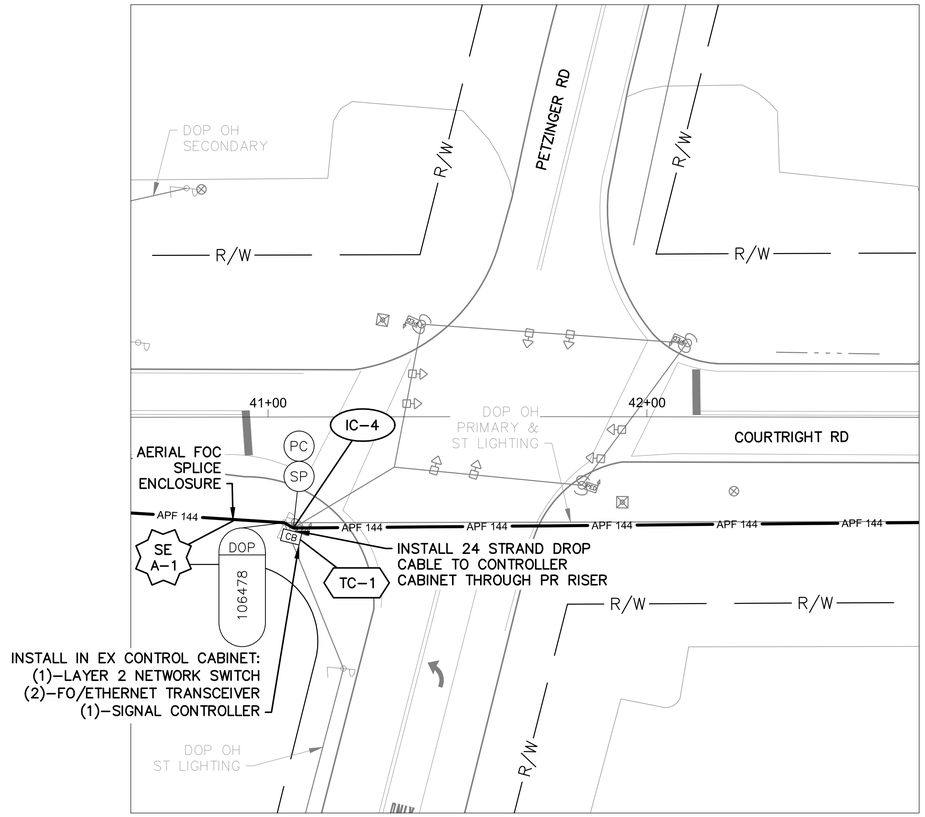
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

242
915

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COURTRIGHT RD BETWEEN STATION 40+00 AND 51+00



DETAIL - INT 2117

0 20 40
HORIZONTAL
SCALE IN FEET

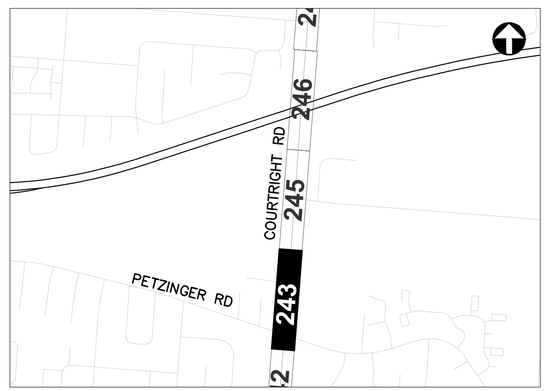
NOTES:

1. SEE SHEET 244 FOR QUANTITIES.
2. SEE SHEETS 631 & 844 FOR COMMUNICATION DETAILS.
3. EXISTING CONDUIT TO CONTROLLER CABINET IS FULL. INSTALL NEW FLEXIBLE CONDUIT TO CABINET FOR PROPOSED DROP CABLE.

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CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☒ POWER
- ☒ LIGHTING



REFER TO SHEET 13 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

0 40 80
HORIZONTAL
SCALE IN FEET

CIP: 540007–100012
PID NUMBER: 99733

INTERCONNECT PLAN
COURTRIGHT RD BETWEEN STA. 40+00 AND 51+00, INT 2117

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

243
915

3378-E

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ESTIMATED QUANTITIES

SHEET NO.	REFERENCE NO.	LOCATION	STATION		632 CONDUIT RISER, 2", 725.04, AS PER PLAN	632 DOWN GUY	632 INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 144 STRAND	632 INTERCONNECT CABLE, MISC.: FIBER OPTIC DROP CABLE, 24 STRAND	632 INTERCONNECT CABLE, MISC.: FIBER OPTIC FUSION SPLICE	632 INTERCONNECT CABLE, MISC.: TERMINATION PANEL, 24 FIBER	632 INTERCONNECT, MISC.: SPLICE ENCLOSURE, CLAMSHELL, 288 SPLICE	632 MESSENGER WIRE, 7 STRAND, 1/4" DIAMETER WITH ACCESSORIES, AS PER PLAN	633 CONTROLLER ITEM, MISC.: FIBER OPTIC ETHERNET TRANSCEIVER, SHORT RANGE	633 CONTROLLER ITEM, MISC.: LAYER 2 ETHERNET SWITCH	633 CONTROLLER UNIT, TYPE TS2/A2, AS PER PLAN									
			FROM	TO	EACH	EACH	FT	FT	EACH	EACH	EACH	FT	EACH	EACH	EACH										
COURTRIGHT RD. BETWEEN STA. 1+50 AND 12+00																									
239	IC-1	COURTRIGHT RD	1+50, 35' LT	12+00, 28' RT			1,127					1,127													
239	IC-2	COURTRIGHT RD	3+98, 26' RT			1																			
239	IC-3	COURTRIGHT RD	11+68, 28' RT				150																		
COURTRIGHT RD. BETWEEN STA. 12+00 AND 21+00, INT 2200																									
240	IC-1	COURTRIGHT RD	12+00, 28' RT	17+57, 29' RT			579					579													
240	SE A-1	COURTRIGHT RD	17+57, 29' RT				150	125	24		1														
240	IC-3	COURTRIGHT RD	17+57, 29' RT	17+69, 39' RT				17				17													
240	IC-2	COURTRIGHT RD	17+57, 29' RT	21+00, 32' LT			388					388													
240	TC-1	COURTRIGHT RD	17+69, 39' RT					45		1			2	1	1										
COURTRIGHT RD. BETWEEN STA. 21+00 AND 31+00																									
241	IC-1	COURTRIGHT RD	21+00, 32' LT	31+00, 28' RT			1,028					1,028													
241	IC-2	COURTRIGHT RD	25+41, 30' LT			1																			
241	IC-3	COURTRIGHT RD	27+28, 23' RT				150																		
COURTRIGHT RD. BETWEEN STA. 31+00 AND 40+00																									
242	IC-1	COURTRIGHT RD	31+00, 28' RT	40+00, 24' RT			914					914													
242	IC-2	COURTRIGHT RD	36+16, 27' RT				150																		
COURTRIGHT RD. BETWEEN STA. 40+00 AND 51+00, INT 2117																									
243	IC-1	COURTRIGHT RD	40+00, 24' RT	41+04, 28' RT			106					106													
243	SE A-1	COURTRIGHT RD	41+04, 28' RT				150	125	24		1														
243	IC-2	COURTRIGHT RD	41+04, 28' RT	51+00, 22' RT			1,011					1,011													
243	IC-4	COURTRIGHT RD	41+06, 29' RT					35																	
243	TC-1	COURTRIGHT RD	41+06, 29' RT		1			10		1			2	1	1										
243	IC-3	COURTRIGHT RD	49+31, 22' RT				150																		
SHEET TOTAL					1	2	6,053	357	48	2	2	5,170	4	2	2	-	-	-	-	-	-	-	-	-	-

AERIAL SAG: 1.5% AERIAL SAG IS INCLUDED IN THE QUANTITIES FOR ANY AERIAL FIBER OR CABLE ITEMS.

3378-E

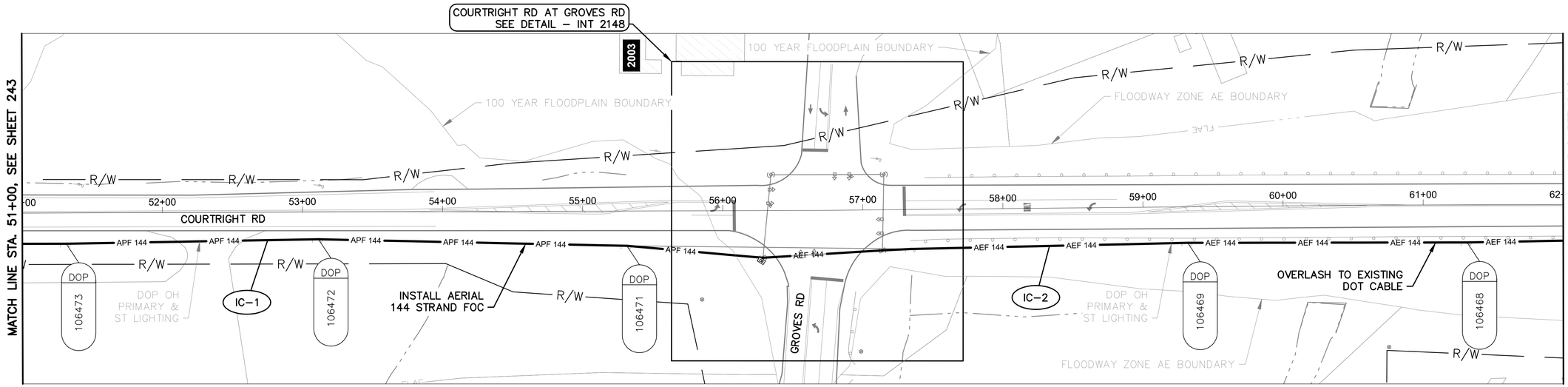
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PID NUMBER: 99733

COURTRIGHT RD BETWEEN STA. 1+50 & 51+00
INTS 2200, 2117

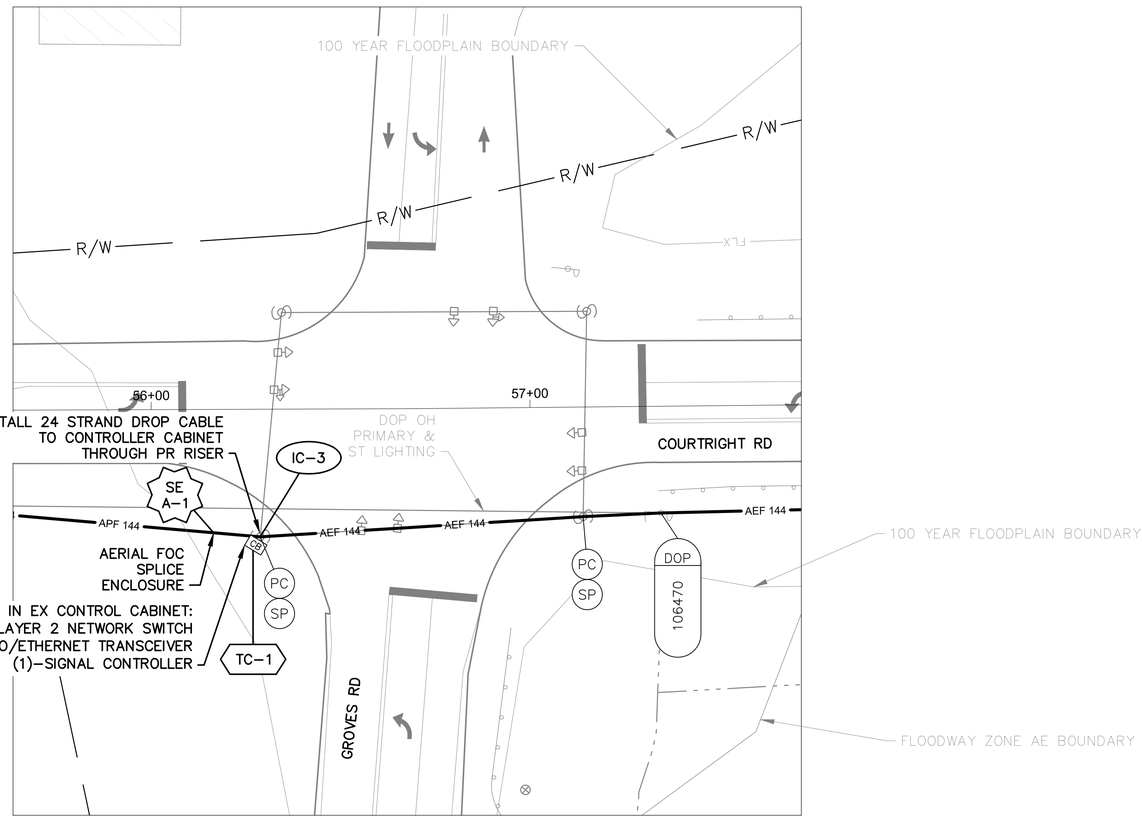
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

244
915

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COURTRIGHT RD BETWEEN STATION 51+00 AND 62+00



DETAIL - INT 2148

0 20 40
HORIZONTAL SCALE IN FEET

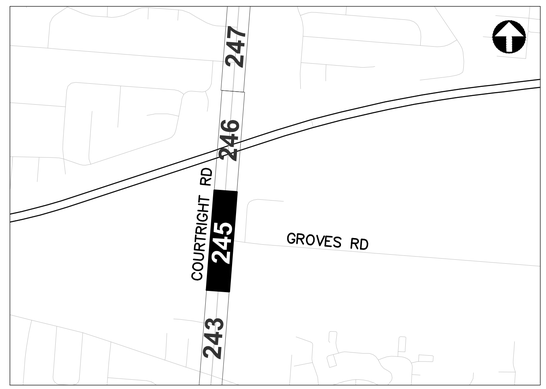
NOTES:

1. SEE SHEET 250 FOR QUANTITIES.
2. SEE SHEETS 631 & 845 FOR COMMUNICATION DETAILS.
3. EXISTING CONDUIT TO CONTROLLER CABINET IS FULL. INSTALL NEW FLEXIBLE CONDUIT TO CABINET FOR PROPOSED DROP CABLE.

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CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☒ POWER
- ☒ LIGHTING



REFER TO SHEET 13 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

0 40 80
HORIZONTAL SCALE IN FEET

CIP: 540007–100012
PID NUMBER: 99733

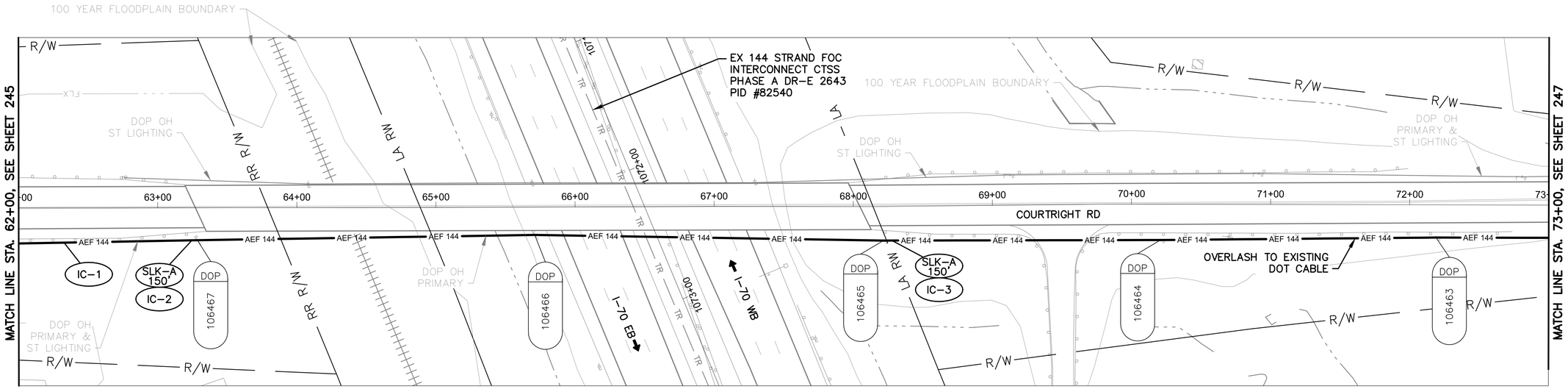
INTERCONNECT PLAN
COURTRIGHT RD BETWEEN STA. 51+00 AND 62+00, INT 2148

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

245
915

3378-E

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COURTRIGHT RD BETWEEN STATION 62+00 AND 73+00

NOTES:

1. SEE SHEET 250 FOR QUANTITIES.
2. SEE SHEET 631 FOR COMMUNICATION DETAILS.
3. SEE SHEET 24 FOR RAILROAD COORDINATION DETAILS.

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CITY OF COLUMBUS
UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☒ POWER
- ☒ LIGHTING



REFER TO SHEET 13 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

1 REVISION 1.0
11-02-2018

3378-E

HORIZONTAL SCALE IN FEET
0 40 80

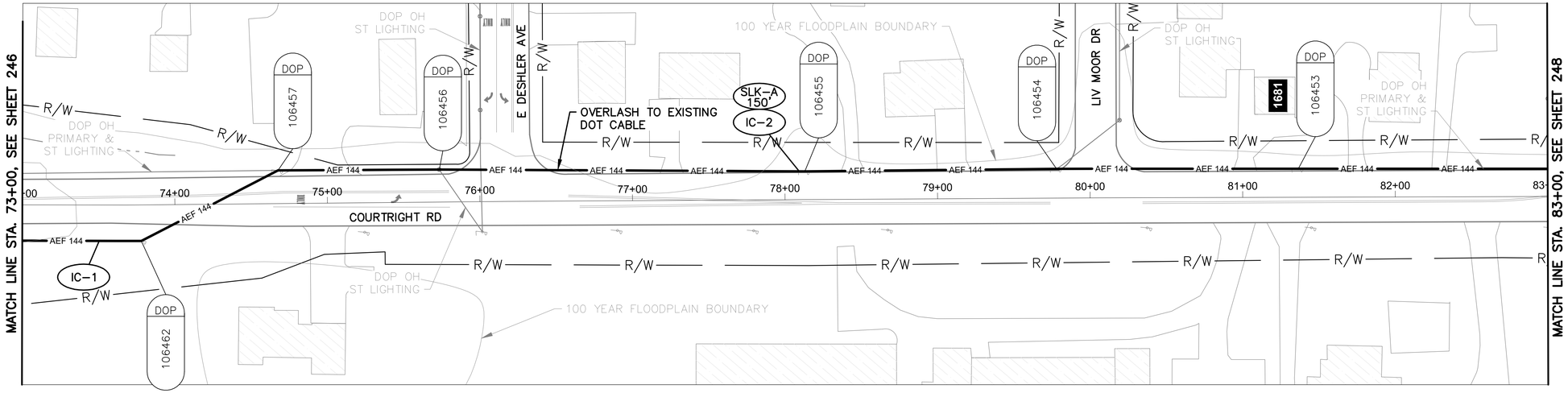
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PID NUMBER: 99733

INTERCONNECT PLAN
COURTRIGHT RD BETWEEN STA. 62+00 AND 73+00

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E - FINAL SUBMITTAL

246
915

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COURTRIGHT RD BETWEEN STATION 73+00 AND 83+00

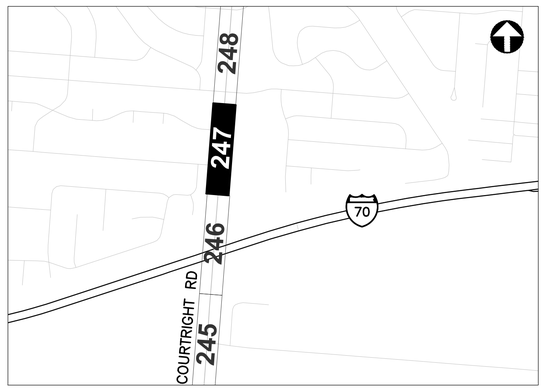
NOTES:

1. SEE SHEET 250 FOR QUANTITIES.
2. SEE SHEET 631 FOR COMMUNICATION DETAILS.

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CITY OF COLUMBUS UTILITY LEGEND

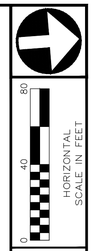
- ☐ SEWER
- ☐ WATER
- ☒ POWER
- ☒ LIGHTING



REFER TO SHEET 13 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

3378-E



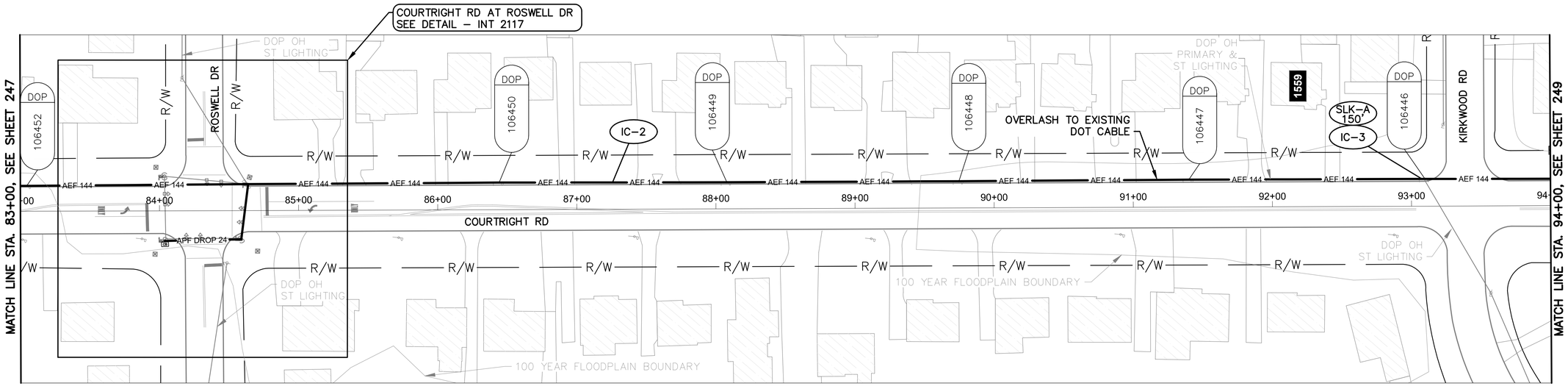
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PID NUMBER: 99733

INTERCONNECT PLAN
COURTRIGHT RD BETWEEN STA. 73+00 AND 83+00

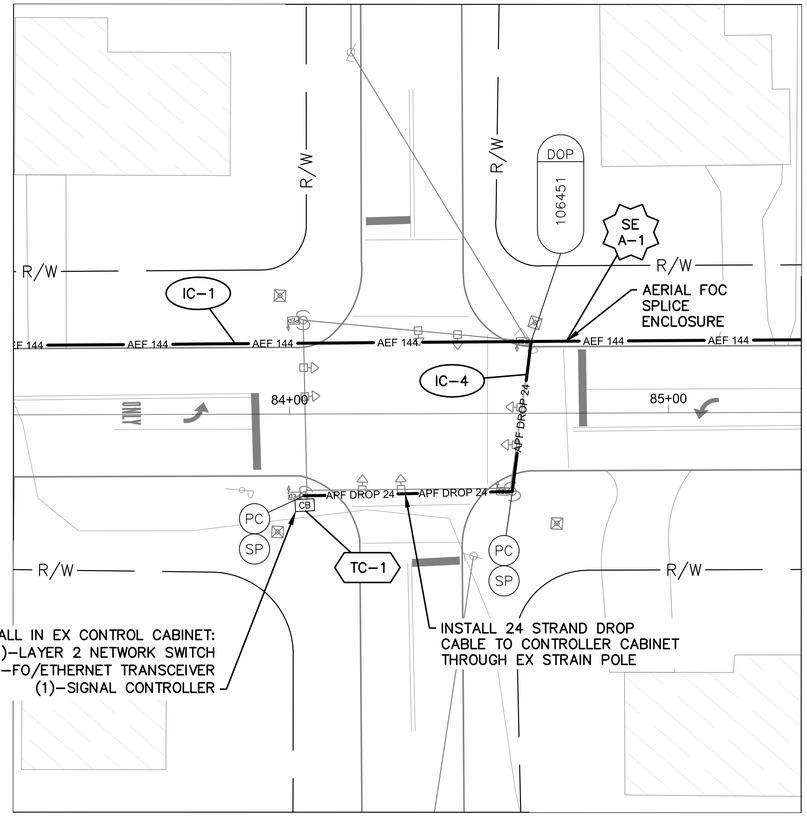
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

247
915

J:\Jobs\63721 ctss phase e\TECHPROD\Sheets\CTSS_PhE_Trunk1_COURTRIGHT_INTERCONNECT.dwg ~ COURTRIGHT-8 layout ~ last saved by: gburch 08/20/2018 07:03pm ~ printed 09/11/2018 09:52pm PSLTS: 1 LTS: 1 CAS: 1:1



COURTRIGHT RD BETWEEN STATION 83+00 AND 94+00



DETAIL - INT 2147

0 20 40
HORIZONTAL SCALE IN FEET

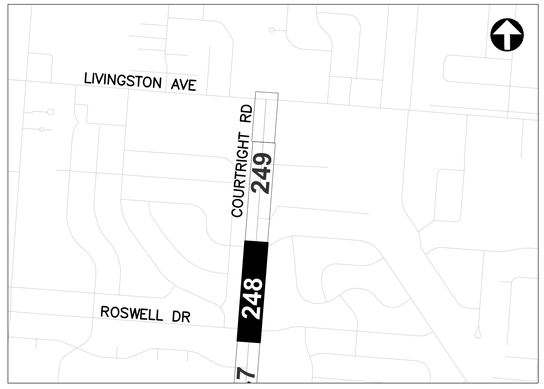
NOTES:

1. SEE SHEET 250 FOR QUANTITIES.
2. SEE SHEETS 631 & 846 FOR COMMUNICATION DETAILS.

Ohio Utilities Protection Service
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www.oups.org

CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☒ POWER
- ☒ LIGHTING



REFER TO SHEET 13 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

0 40 80
HORIZONTAL SCALE IN FEET

CIP: 540007–100012
PID NUMBER: 99733

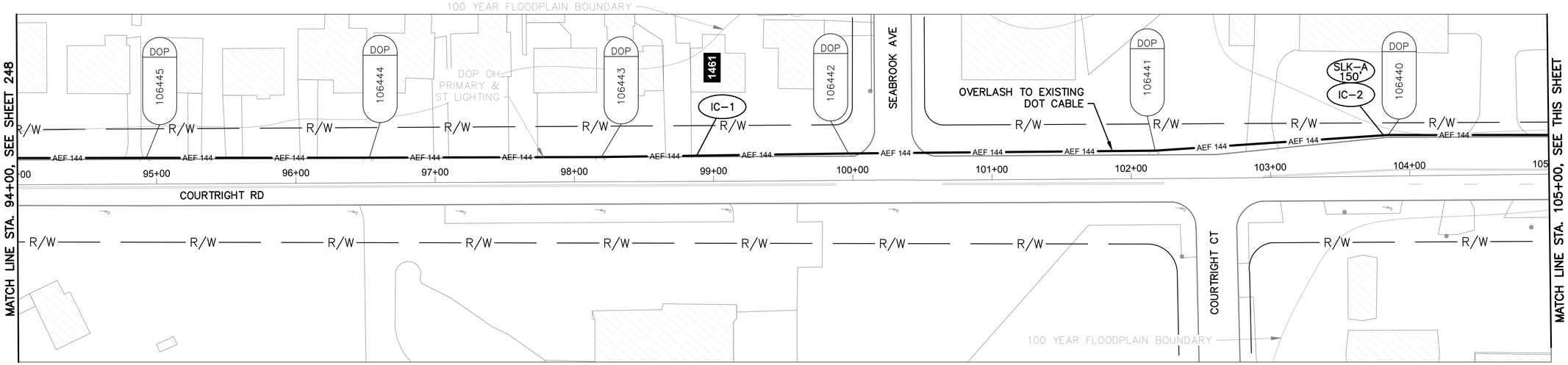
INTERCONNECT PLAN
COURTRIGHT RD BETWEEN STA. 83+00 AND 94+00, INT 2147

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

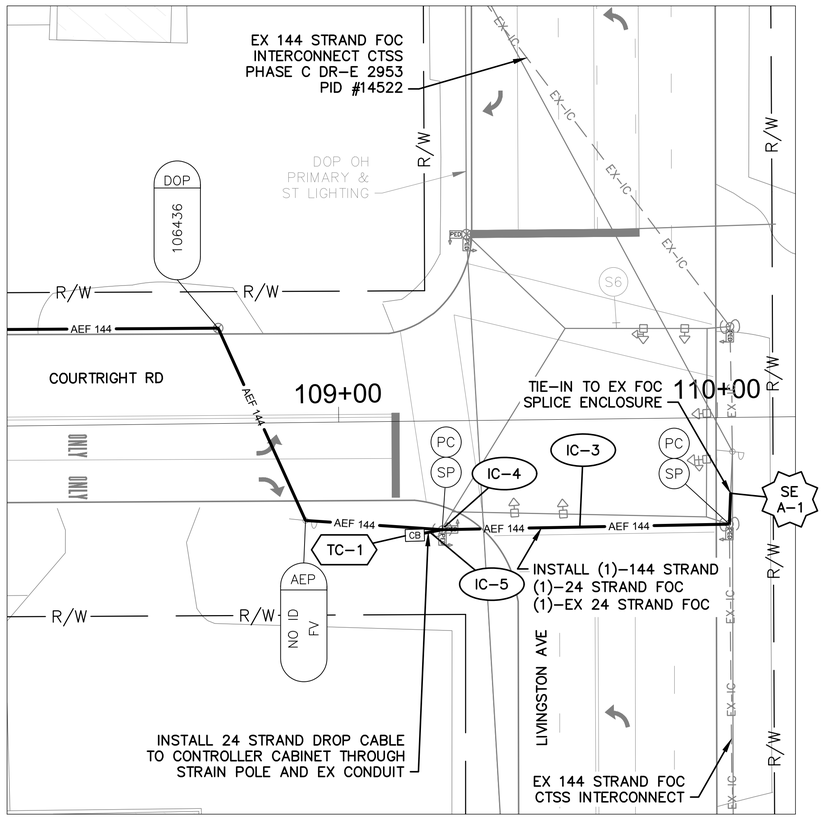
248
915

3378-E

J:\Jobs\63721 CTSS Phase E\TECHPROD\Sheets\CTSS_PhE_Trunk1_COURTRIGHT_INTERCONNECT.dwg ~ COURTRIGHT–9 layout ~ last saved by: gburch 09/13/2018 03:51pm ~ printed 09/13/2018 05:20pm PSLTS: 1 LTS: 1 CAS: 1:1

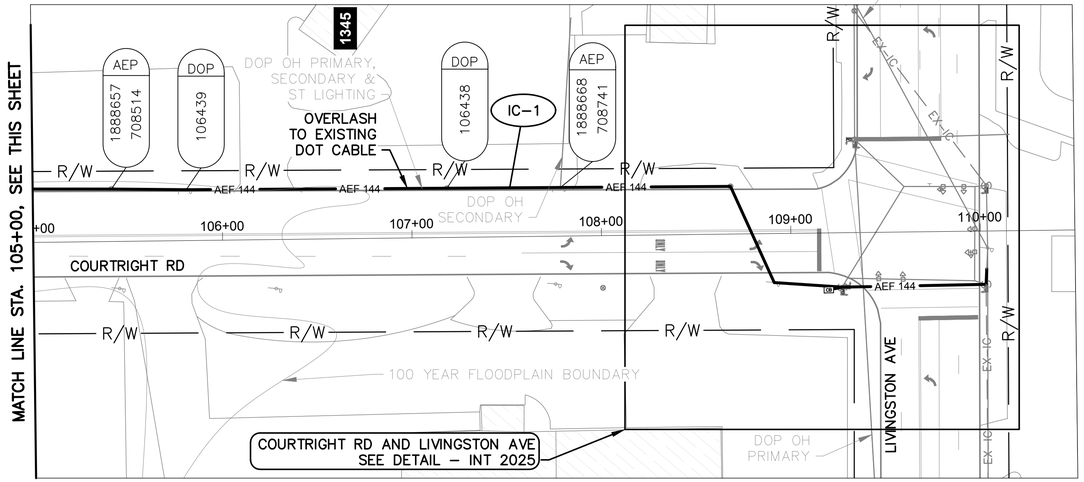


COURTRIGHT RD BETWEEN STATION 94+00 AND 105+00



DETAIL - INT 2025

0 20 40
HORIZONTAL SCALE IN FEET



COURTRIGHT RD BETWEEN STATION 105+00 AND 110+50

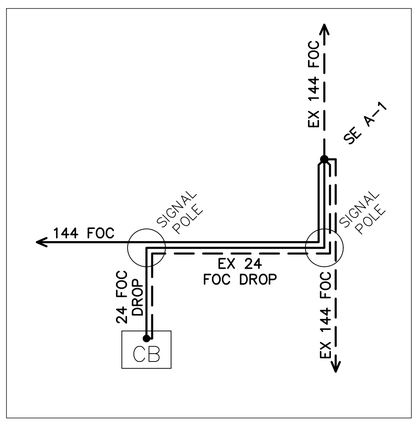
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www.oups.org

CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☒ POWER
- ☒ LIGHTING

NOTES:

1. SEE SHEET 250 FOR QUANTITIES.
2. SEE SHEETS 631 & 847 FOR COMMUNICATION DETAILS.



CABLE SCHEMATIC - INT 2025

NOT TO SCALE



REFER TO SHEET 13 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

3378-E

0 40 80
HORIZONTAL SCALE IN FEET

CIP: 540007-100012
PID NUMBER: 99733

INTERCONNECT PLAN
COURTRIGHT RD BETWEEN STA. 94+00 AND 110+50, INT 2025

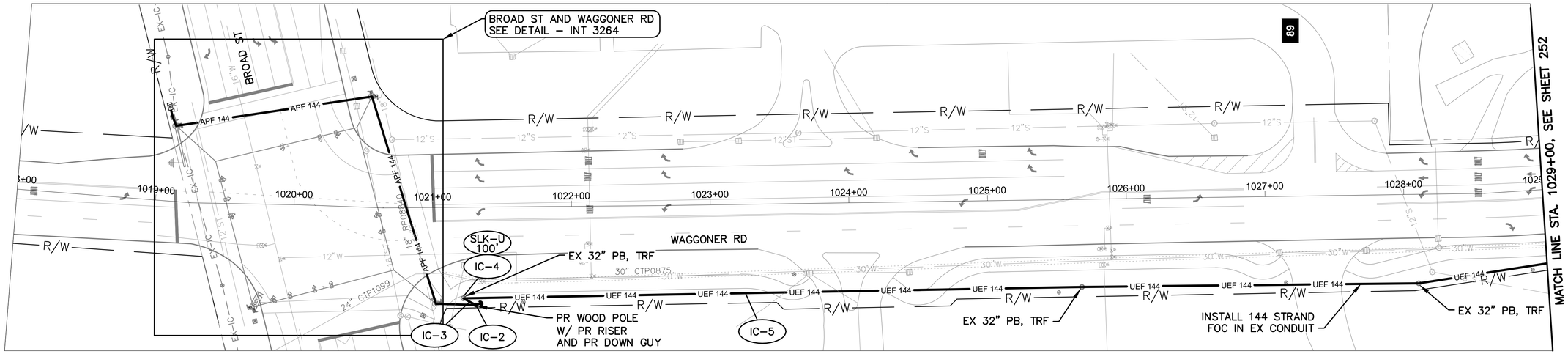
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

249
915

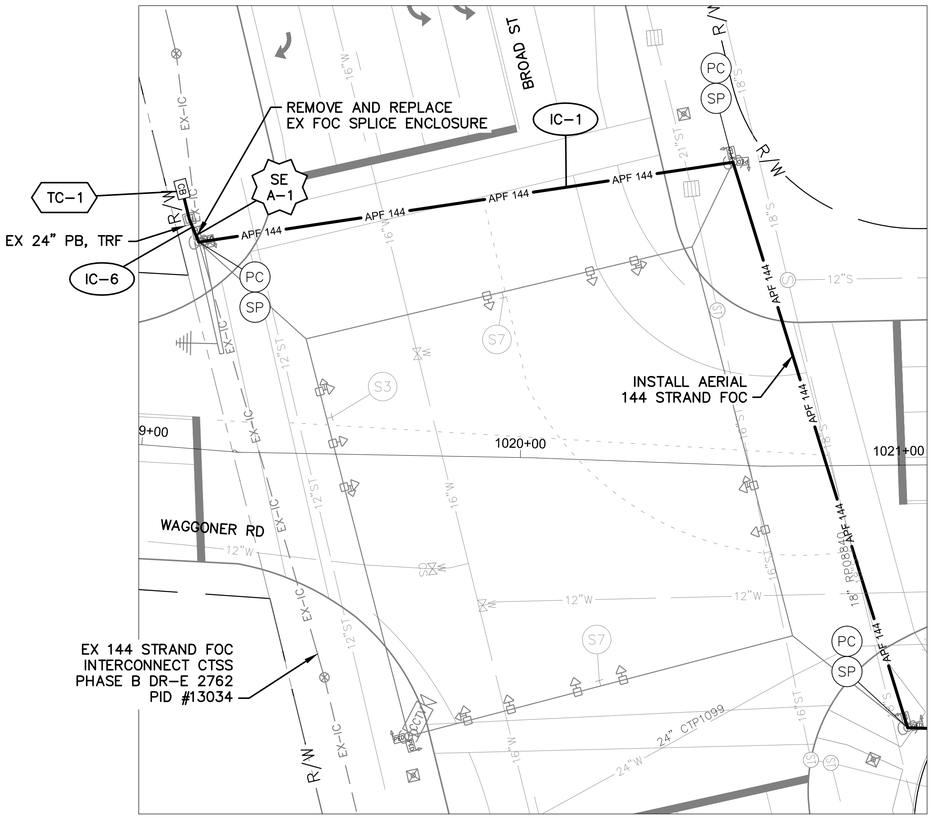
J:\Jobs\63721 CTSS Phase E\TECHPROD\Sheets\CTSS_PhE_Trunk1_COURTRIGHT_INTERCONNECT.dwg ~ COURTRIGHT-10 layout ~ last saved by: gburch 09/13/2018 03:51pm ~ printed 09/13/2018 04:48pm PSLTS: 1 LTS: 1 CAS: 1:1

ESTIMATED QUANTITIES

SHEET NO.	REFERENCE NO.	LOCATION	STATION		202	632	632	632	632	632	632	632	632	633	633	633									
					EXISTING CONDUIT CLEANED, AS PER PLAN	CONDUIT RISER, 2", 725.04, AS PER PLAN	INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 144 STRAND	INTERCONNECT CABLE, MISC.: FIBER OPTIC DROP CABLE, 24 STRAND	INTERCONNECT CABLE, MISC.: FIBER OPTIC FUSION SPLICE	INTERCONNECT CABLE, MISC.: OVERLASH TO EXISTING INTERCONNECT	INTERCONNECT CABLE, MISC.: TERMINATION PANEL, 24 FIBER	INTERCONNECT, MISC.: SPLICE ENCLOSURE, CLAMSHELL, 288 SPLICE	MESSENGER WIRE, 7 STRAND, 1/4" DIAMETER WITH ACCESSORIES, AS PER PLAN	CONTROLLER ITEM, MISC.: FIBER OPTIC ETHERNET TRANSCEIVER, SHORT RANGE	CONTROLLER ITEM, MISC.: LAYER 2 ETHERNET SWITCH	CONTROLLER UNIT, TYPE TS2/A2, AS PER PLAN								
			FROM	TO	FT	EACH	FT	FT	EACH	FT	EACH	EACH	FT	EACH	EACH	EACH								
COURTRIGHT RD. BETWEEN STA. 51+00 AND 62+00, INT 2148																									
245	IC-1	COURTRIGHT RD	51+00, 22' RT	56+28, 34' RT			537						537												
245	SE A-1	COURTRIGHT RD	56+28, 34' RT				150	125	24			1													
245	IC-3	COURTRIGHT RD	56+28, 34' RT	56+28, 34' RT		1		35																	
245	TC-1	COURTRIGHT RD	56+28, 34' RT					10			1			2	1	1									
245	IC-2	COURTRIGHT RD	56+28, 34' RT	62+00, 26' RT			581			572															
COURTRIGHT RD. BETWEEN STA. 62+00 AND 73+00																									
246	IC-1	COURTRIGHT RD	62+00, 26' RT	73+00, 23' RT			1,117			1,100															
246	IC-2	COURTRIGHT RD	63+24, 23' RT				150																		
246	IC-3	COURTRIGHT RD	68+27, 24' RT				150																		
COURTRIGHT RD. BETWEEN STA. 73+00 AND 83+00																									
247	IC-1	COURTRIGHT RD	73+00, 23' RT	83+00, 18' LT			1,026			1,011															
247	IC-2	COURTRIGHT RD	78+09, 19' LT				150																		
COURTRIGHT RD. BETWEEN STA. 83+00 AND 94+00, INT 2147																									
248	IC-1	COURTRIGHT RD	83+00, 18' LT	84+64, 19' LT			166			164															
248	TC-1	COURTRIGHT RD	84+04, 22' RT					45			1			2	1	1									
248	IC-4	COURTRIGHT RD	84+04, 22' RT	84+64, 19' LT				97					97												
248	SE A-1	COURTRIGHT RD	84+64, 19' LT				150	125	24			1													
248	IC-2	COURTRIGHT RD	84+64, 19' LT	94+00, 19' LT			950			936															
248	IC-3	COURTRIGHT RD	93+07, 20' LT				150																		
COURTRIGHT RD. BETWEEN STA. 94+00 AND 110+50, INT 2025																									
249	IC-1	COURTRIGHT RD	94+00, 19' LT	110+03, 20' RT			1,669			1,644															
249	IC-2	COURTRIGHT RD	103+81, 29' LT				150																		
249	TC-1	COURTRIGHT RD	109+19, 30' RT					10			1														
249	IC-5	COURTRIGHT RD	109+19, 30' RT	109+26, 29' RT	8			8																	
249	IC-4	COURTRIGHT RD	109+26, 29' RT					35																	
249	IC-3	COURTRIGHT RD	109+26, 29' RT	110+02, 28' RT				76																	
249	SE A-1	COURTRIGHT RD	110+02, 28' RT				75	125	204																



WAGGONER RD BETWEEN STATION 1018+00 AND 1029+00



DETAIL - INT 3264

0 20 40
HORIZONTAL
SCALE IN FEET

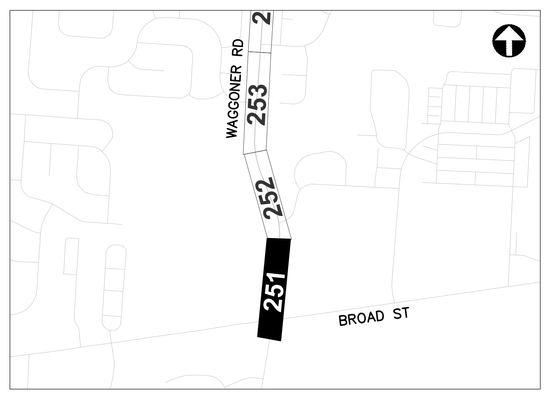
NOTES:

1. SEE SHEET 256 FOR QUANTITIES.
2. SEE SHEETS 632 & 856 FOR COMMUNICATION DETAILS.

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CITY OF COLUMBUS UTILITY LEGEND

- ☒ SEWER
- ☒ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 11 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

0 40 80
HORIZONTAL
SCALE IN FEET

CIP: 540007–100012
PID NUMBER: 99733

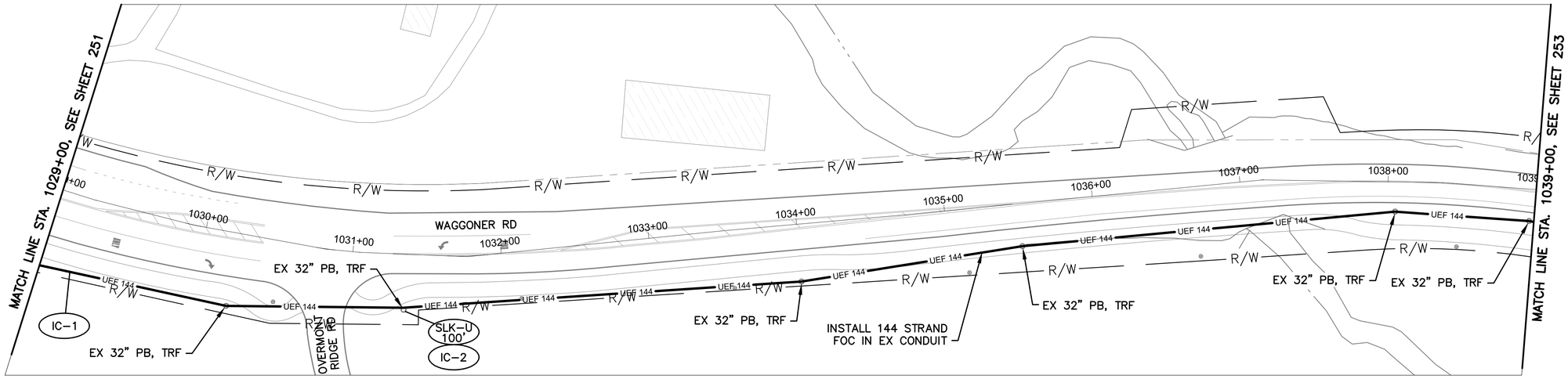
INTERCONNECT PLAN
WAGGONER RD BETWEEN STA. 1018+00 AND 1029+00, INT 3264

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

251
915

3378-E

d:\jobs\63721 ctss phase e\TECHPROD\Sheets\CTSS_PhE_Trunk1_WAGGONER_INTERCONNECT.dwg – WAGGONER–1 layout ~ last saved by: gburch 08/20/2018 08:51am ~ printed 09/11/2018 10:01pm PSLTS: 1 LTS: 1 CAS: 1:1



WAGGONER RD BETWEEN STATION 1029+00 AND 1039+00

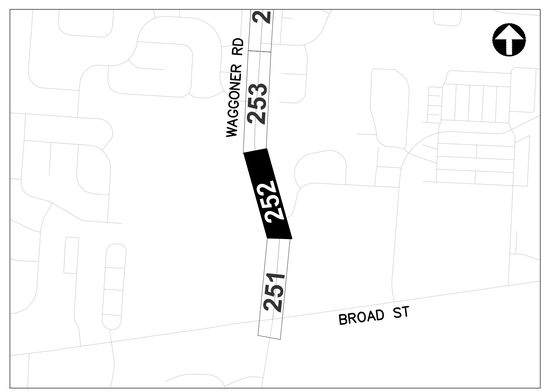
NOTES:

1. SEE SHEET 256 FOR QUANTITIES.
2. SEE SHEET 632 FOR COMMUNICATION DETAILS.

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CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 11 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

3378-E

HORIZONTAL SCALE IN FEET
0 40 80

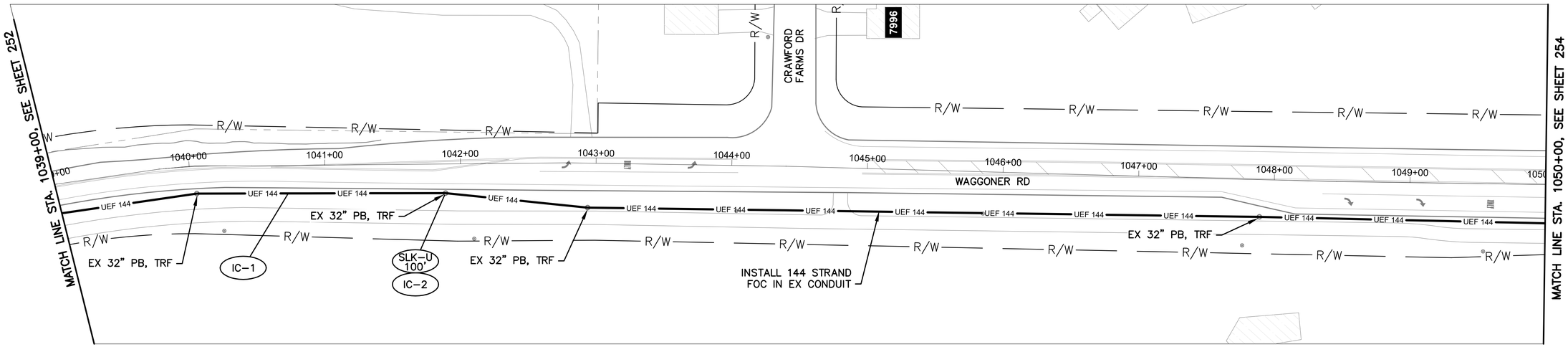
CIP: 540007-100012
PID NUMBER: 99733

INTERCONNECT PLAN
WAGGONER RD BETWEEN STA. 1029+00 AND 1039+00

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

252
915

J:\Jobs\63721 ctss phase e\TECHPROD\Sheets\CTSS_PhE_Trunk1_WAGGONER_INTERCONNECT.dwg – WAGGONER-2 layout ~ last saved by: gburch 08/20/2018 09:51am ~ printed 09/11/2018 10:03pm PSLTS: 1 LTS: 1 CAS: 1:1



WAGGONER RD BETWEEN STATION 1039+00 AND 1050+00

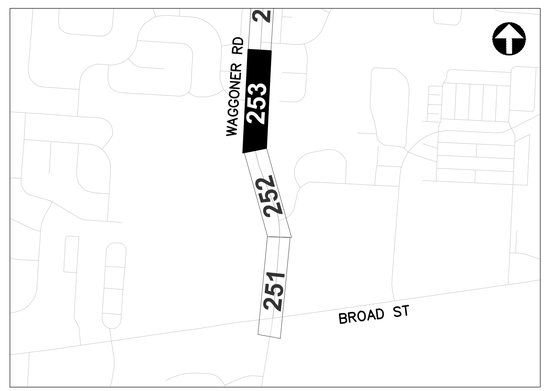
NOTES:

1. SEE SHEET 256 FOR QUANTITIES.
2. SEE SHEET 632 FOR COMMUNICATION DETAILS.

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CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 11 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

HORIZONTAL SCALE IN FEET
0 40 80

CIP: 540007-100012
PID NUMBER: 99733

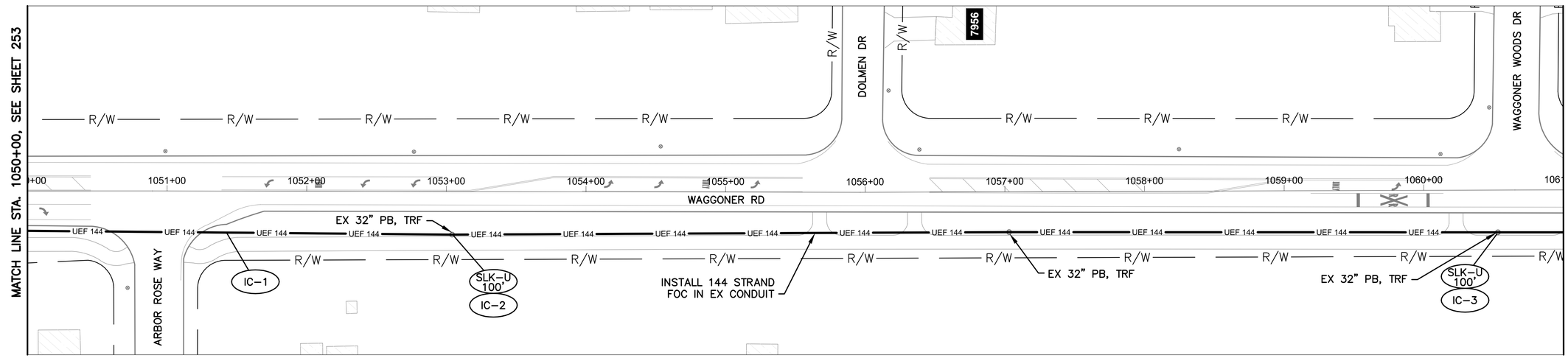
INTERCONNECT PLAN
WAGGONER RD BETWEEN STA. 1039+00 AND 1050+00

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

3378-E

253
915

J:\Jobs\63721 ctss phase e\TECHPROD\Sheets\CTSS_PhE_Trunk1_WAGGONER_INTERCONNECT.dwg – WAGGONER-3 layout ~ last saved by: gburch 08/20/2018 09:51am ~ printed 09/11/2018 10:05pm PSLTS: 1 LTS: 1 CAS: 1:1



WAGGONER RD BETWEEN STATION 1050+00 AND 1061+00

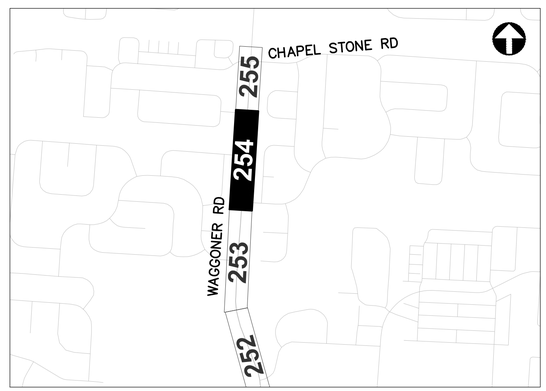
NOTES:

1. SEE SHEET 256 FOR QUANTITIES.
2. SEE SHEET 632 FOR COMMUNICATION DETAILS.

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CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 11 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

3378-E

HORIZONTAL SCALE IN FEET
0 40 80

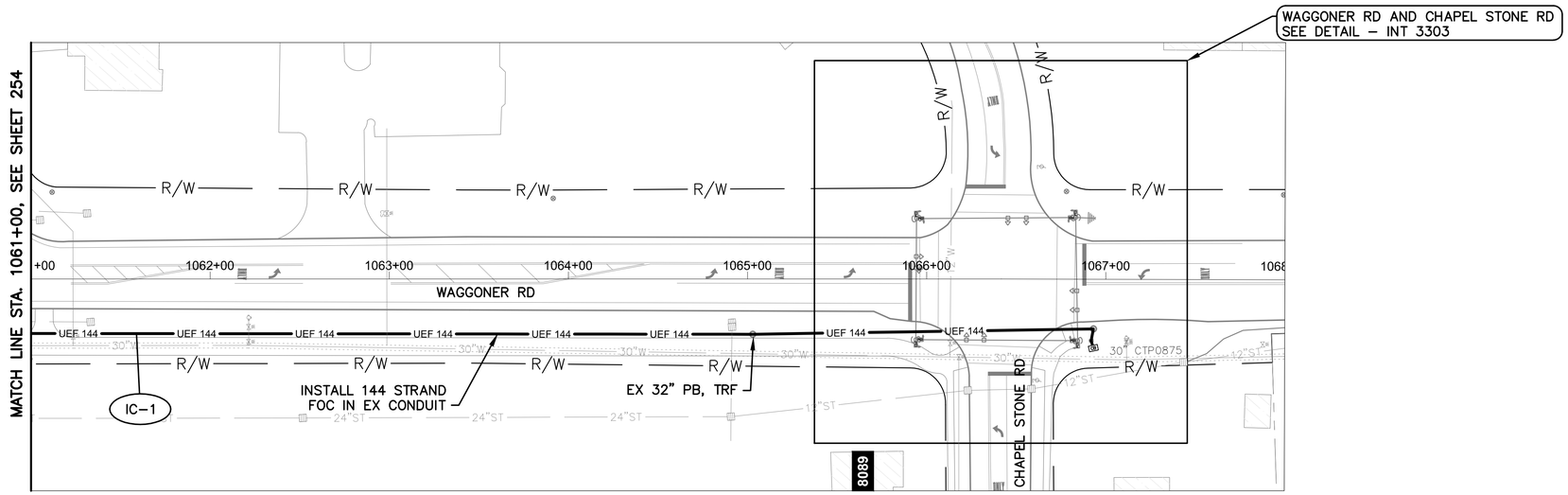
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PID NUMBER: 99733

INTERCONNECT PLAN
WAGGONER RD BETWEEN STA. 1050+00 AND 1061+00

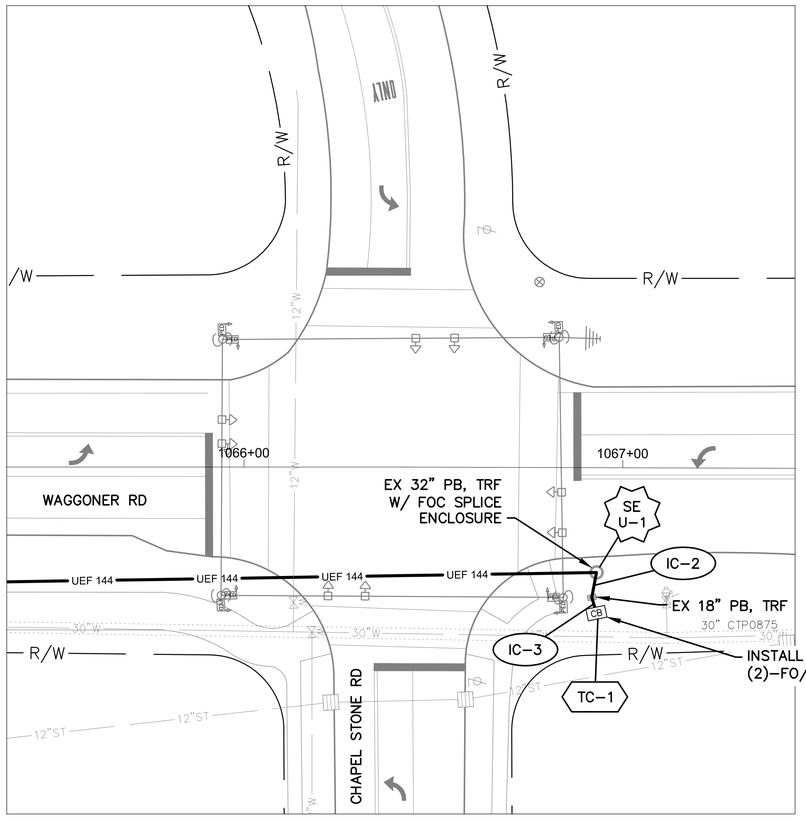
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

254
915

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WAGGONER RD BETWEEN STATION 1061+00 AND 1068+00



DETAIL - INT 3303

0 20 40
HORIZONTAL
SCALE IN FEET

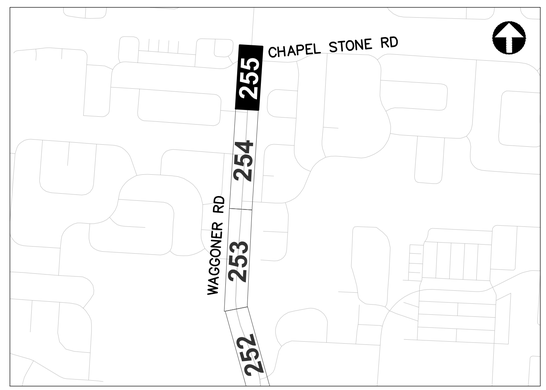
NOTES:

1. SEE SHEET 256 FOR QUANTITIES.
2. SEE SHEETS 632 & 855 FOR COMMUNICATION DETAILS.

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CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☒ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 11 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

0 40 80
HORIZONTAL
SCALE IN FEET

CIP: 540007–100012
PID NUMBER: 99733

INTERCONNECT PLAN
WAGGONER RD BETWEEN STA. 1061+00 AND 1068+00, INT 3303

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

255
915

3378-E

J:\Jobs\63721 ctss phase e\TECHPROD\Sheets\CTSS_PhE_Trunk1_WAGGONER_INTERCONNECT.dwg – WAGGONER-5 layout ~ last saved by: gburch 08/20/2018 09:51am ~ printed 09/11/2018 10:09pm PSLTS: 1 LTS: 1 CAS: 1:1

ESTIMATED QUANTITIES

SHEET NO.	REFERENCE NO.	LOCATION	STATION		202	625	625	632	632	632	632	632	632	632	632	632	633							
					EXISTING CONDUIT CLEANED, AS PER PLAN	CONDUIT, CONCRETE ENCASED, 2-3", 725.05, AS PER PLAN	TRENCH, 36" DEEP, AS PER PLAN	CONDUIT RISER, 2", 725.04, AS PER PLAN	DOWN GUY	INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 144 STRAND	INTERCONNECT CABLE, MISC.: FIBER OPTIC DROP CABLE, 24 STRAND	INTERCONNECT CABLE, MISC.: FIBER OPTIC FUSION SPLICE	INTERCONNECT CABLE, MISC.: TERMINATION PANEL, 24 FIBER	INTERCONNECT, MISC.: SPLICE ENCLOSURE, CLAMSHELL, 288 SPLICE	MESSENGER WIRE, 7 STRAND, 1/4" DIAMETER WITH ACCESSORIES, AS PER PLAN	WOOD POLE, CLASS 5, 35 FT	CONTROLLER ITEM, MISC.: FIBER OPTIC ETHERNET TRANSCEIVER, SHORT RANGE							
			FROM	TO	FT	FT	FT	EACH	EACH	FT	FT	EACH	EACH	EACH	FT	EACH	EACH							
WAGGONER RD. BETWEEN STA. 1018+00 AND 1029+00, INT 3264																								
251	TC-1	WAGGONER RD	1019+05, 68' LT								10		1											
251	IC-6	WAGGONER RD	1019+05, 68' LT	1019+11, 54' LT	15						15													
251	SE A-1	WAGGONER RD	1019+11, 54' LT							75	160	204		1										
251	IC-1	WAGGONER RD	1019+11, 54' LT	1021+31, 70' RT						333					333									
251	IC-4	WAGGONER RD	1021+21, 66' RT							100														
251	IC-3	WAGGONER RD	1021+21, 66' RT	1021+31, 70' RT		11	11			11														
251	IC-2	WAGGONER RD	1021+31, 70' RT					1	1	35						1								
251	IC-5	WAGGONER RD	1021+31, 70' RT	1029+00, 53' RT	783					783														
WAGGONER RD. BETWEEN STA. 1029+00 AND 1039+00																								
252	IC-1	WAGGONER RD	1029+00, 53' RT	1039+00, 22' RT	1,014					1,014														
252	IC-2	WAGGONER RD	1013+36, 38' RT							100														
WAGGONER RD. BETWEEN STA. 1039+00 AND 1050+00																								
253	IC-1	WAGGONER RD	1039+00, 22' RT	1050+00, 28' RT	1,100					1,100														
253	IC-2	WAGGONER RD	1041+89, 21' RT							100														
WAGGONER RD. BETWEEN STA. 1050+00 AND 1061+00																								
254	IC-1	WAGGONER RD	1050+00, 28' RT	1061+00, 31' RT	1,100					1,100														
254	IC-2	WAGGONER RD	1053+04, 31' RT							100														
254	IC-3	WAGGONER RD	1060+53, 30' RT							100														
WAGGONER RD. BETWEEN STA. 1061+00 AND 1068+00, INT 3303																								
255	IC-1	WAGGONER RD	1061+00, 31' RT	1066+93, 28' RT	593					593														
255	IC-2	WAGGONER RD	1066+92, 34' RT	1066+93, 28' RT		7	7			7														
255	IC-3	WAGGONER RD	1066+92, 34' RT	1066+93, 38' RT	4						4													
255	TC-1	WAGGONER RD	1066+93, 38' RT								10		1				2							
255	SE U-1	WAGGONER RD	1066+93, 28' RT							75	125	12		1										
SHEET TOTAL					4,609	18	18	1	1	5,626	324	216	2	2	333	1	2	-	-	-	-	-	-	-

AERIAL SAG: 1.5% AERIAL SAG IS INCLUDED IN THE QUANTITIES FOR ANY AERIAL FIBER OR CABLE ITEMS.

3378-E

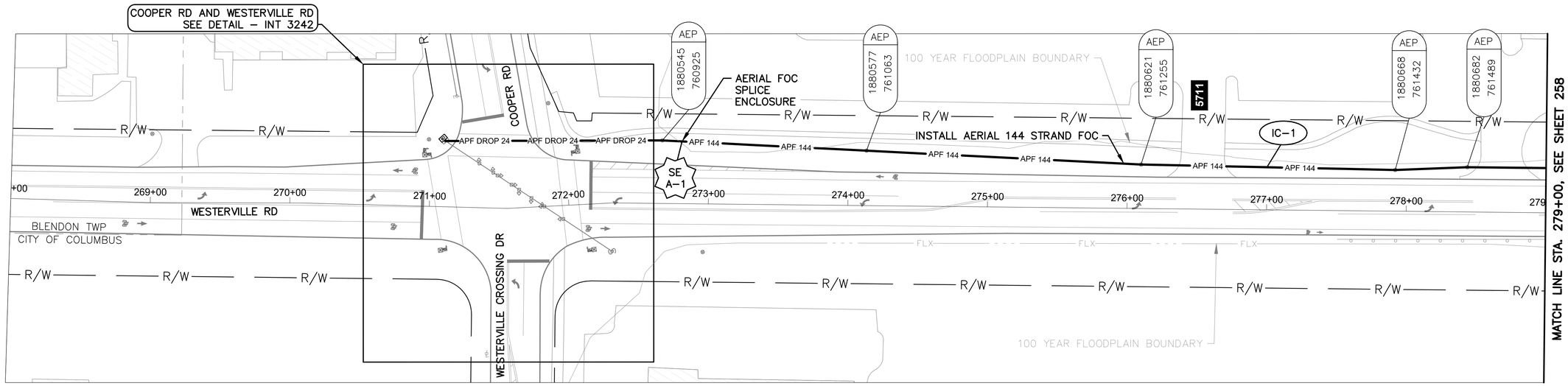
CIP: 540007-100012
PID NUMBER: 99733

WAGGONER RD BETWEEN STA. 1018+00 & 1068+00
INTS 3264, 3303

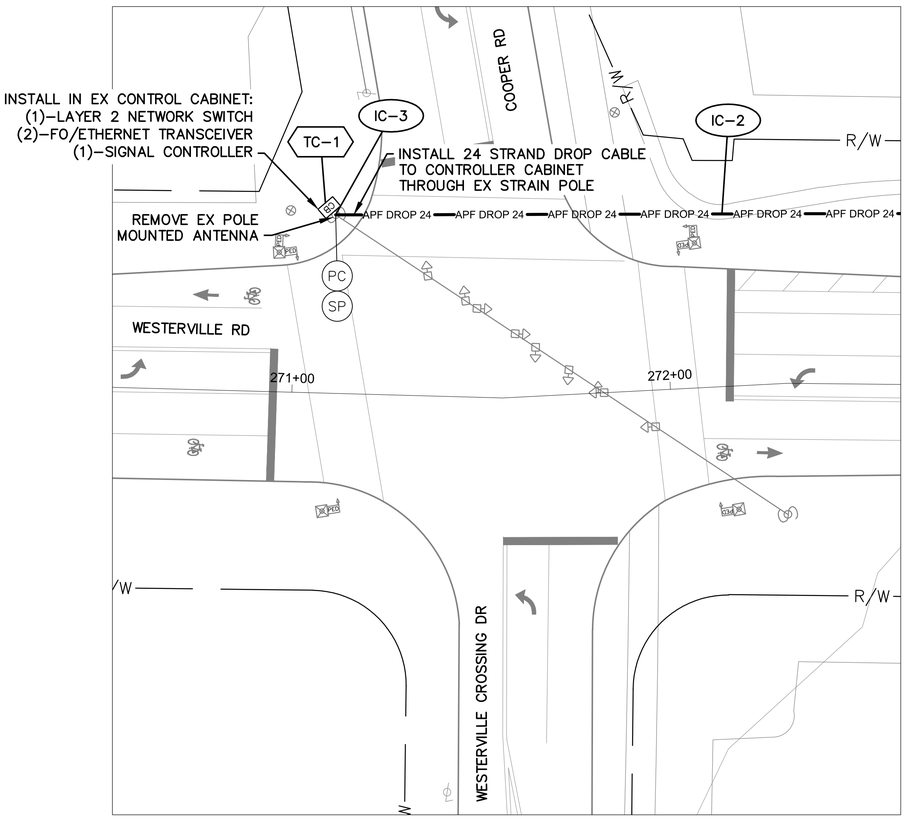
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

256
915

J:\Jobs\63721 CTSS Phase E\TECH\PROD\Sheets\CTSS_PhE_Trunk1_WAGGONER_IC_QUANTITIES.dwg – WAGGONER RD–Q1 layout ~ last saved by: gburch 01/18/2018 03:39pm ~ printed 09/18/2018 09:58am PSLTS: 1 LTS: 1 CAS: 1:1



WESTERVILLE RD BETWEEN STATION 268+00 AND 279+00



DETAIL - INT 3242

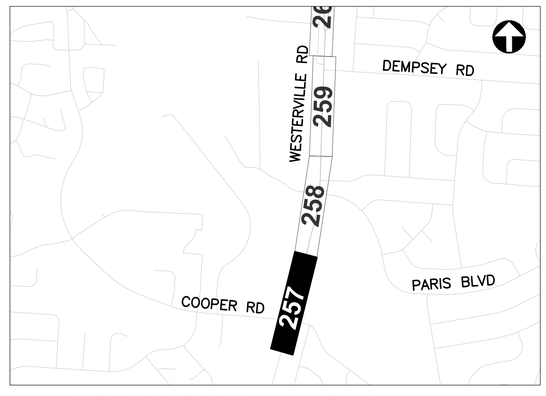
0 20 40
HORIZONTAL SCALE IN FEET

NOTES:

1. SEE SHEET 262 FOR QUANTITIES.
2. SEE SHEETS 626 & 811 FOR COMMUNICATION DETAILS.
3. EXISTING CONDUIT TO CONTROLLER CABINET IS FULL. INSTALL NEW FLEXIBLE CONDUIT TO CABINET FOR PROPOSED DROP CABLE.

OHIO Utilities Protection SERVICE
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www.oups.org

CITY OF COLUMBUS UTILITY LEGEND
- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 8 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

0 40 80
HORIZONTAL SCALE IN FEET

CIP: 540007–100012
PID NUMBER: 99733

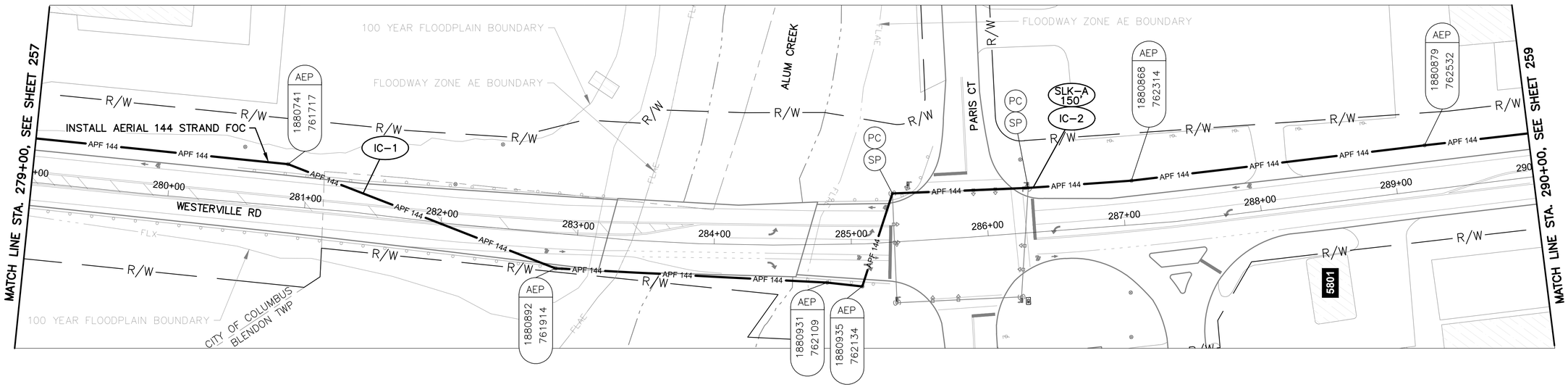
INTERCONNECT PLAN
WESTERVILLE RD BETWEEN STA. 268+00 AND 279+00, INT 3242

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

257
915

3378-E

J:\Jobs\6372\1 ctss phase e\TECHPROD\Sheets\CTSS_PhE_Trunk2_WESTERVILLE_INTERCONNECT.dwg – WESTERVILLE–1 layout – last saved by: gburch 09/04/2018 03:25pm ~ printed 09/11/2018 10:11pm PSLTS: 1 LTS: 1 CAS: 1:1



WESTERVILLE RD BETWEEN STATION 279+00 AND 290+00

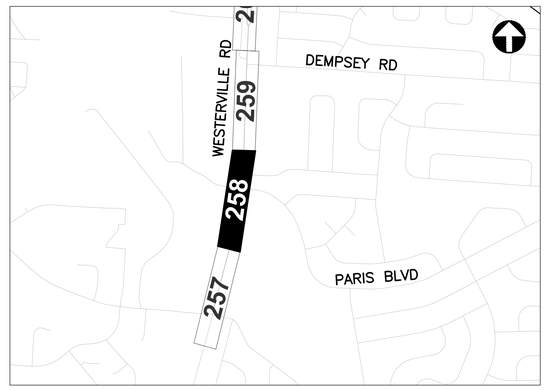
NOTES:

1. SEE SHEET 262 FOR QUANTITIES.
2. SEE SHEET 626 FOR COMMUNICATION DETAILS.

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www.oups.org

CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 8 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

3378-E

HORIZONTAL SCALE IN FEET
0 40 80

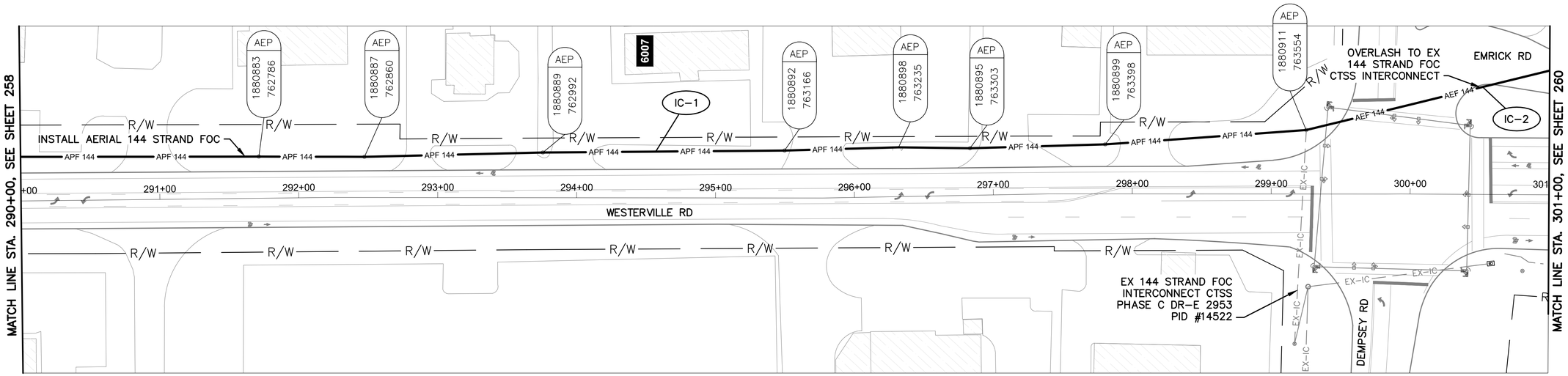
CIP: 540007-100012
PID NUMBER: 99733

INTERCONNECT PLAN
WESTERVILLE RD BETWEEN STA. 279+00 AND 290+00

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

258
915

j:\Jobs\63721 ctss phase e\TECHPROD\Sheets\CTSS_PhE_Trunk2_WESTERVILLE_INTERCONNECT.dwg ~ WESTERVILLE-2 layout ~ last saved by gburch 09/04/2018 03:25pm ~ printed 09/11/2018 10:12pm PSLTS: 1 LTS: 1 CAS: 1:1



WESTERVILLE RD BETWEEN STATION 290+00 AND 301+00

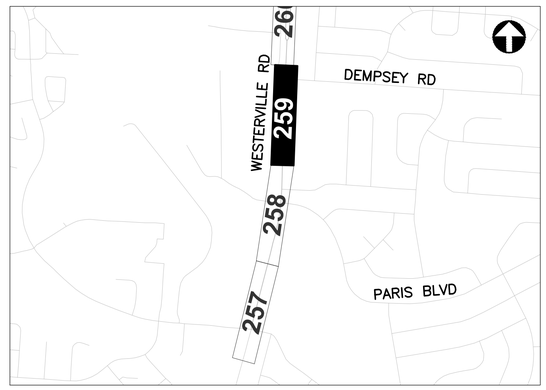
NOTES:

1. SEE SHEET 262 FOR QUANTITIES.
2. SEE SHEET 626 FOR COMMUNICATION DETAILS.

Ohio Utilities Protection Service
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800-362-2764 or 8-1-1
www.oups.org

CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 8 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

3378-E

HORIZONTAL SCALE IN FEET
0 40 80

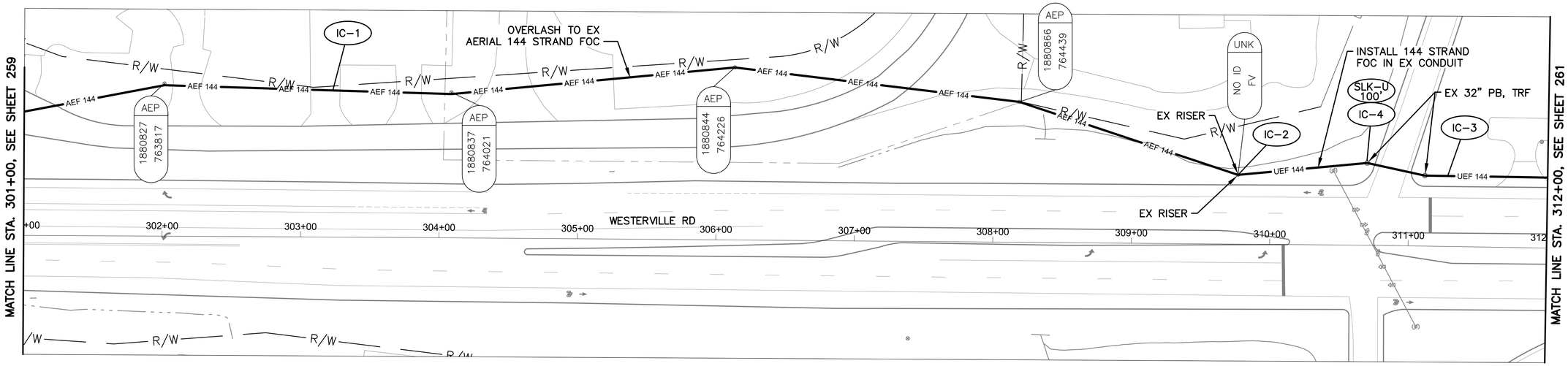
CIP: 540007-100012
PID NUMBER: 99733

INTERCONNECT PLAN
WESTERVILLE RD BETWEEN STA. 290+00 AND 301+00

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E - FINAL SUBMITTAL

259
915

J:\Jobs\63721 ctss phase e\TECHPROD\Sheets\CTSS_PhE_Trunk2_WESTERVILLE_INTERCONNECT.dwg ~ WESTERVILLE-3 layout ~ last saved by gburch 09/04/2018 03:25pm ~ printed 09/11/2018 10:14pm PSLTS: 1 LTS: 1 CAS: 1:1



WESTERVILLE RD BETWEEN STATION 301+00 AND 312+00

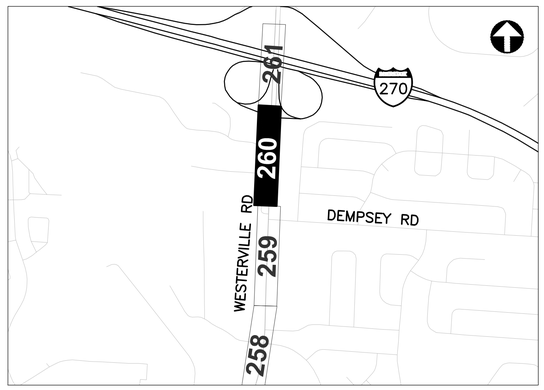
NOTES:

1. SEE SHEET 262 FOR QUANTITIES.
2. SEE SHEET 626 FOR COMMUNICATION DETAILS.
3. LIMITED ACCESS RIGHT OF WAY IS LOCATED OUTSIDE OF THE EXTENT OF VIEW SHOWN ABOVE.

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CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 8 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

3378-E

HORIZONTAL SCALE IN FEET
0 40 80

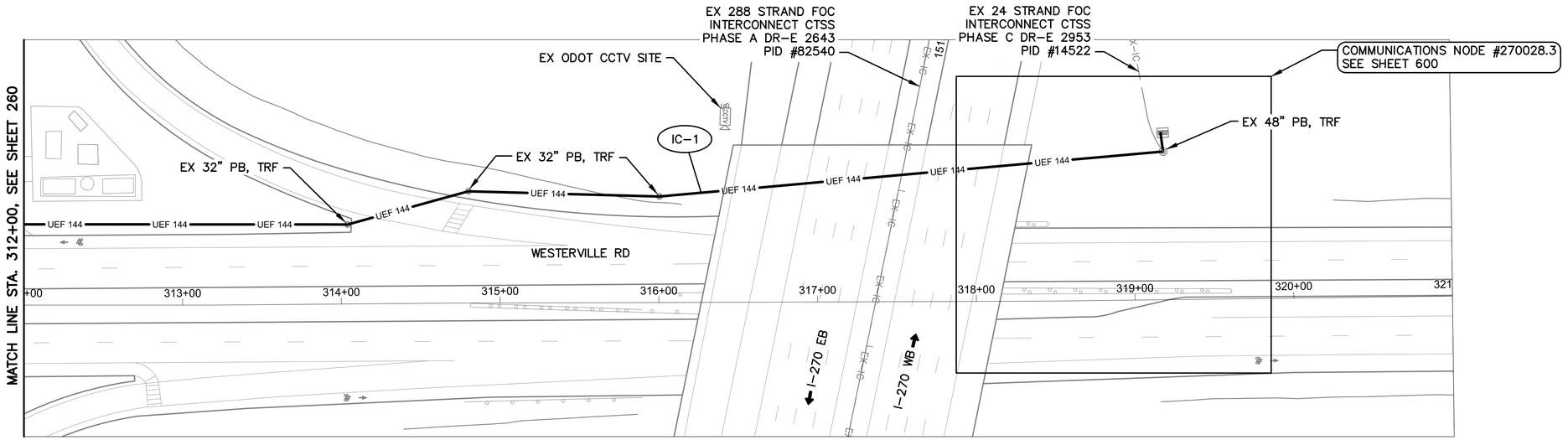
CIP: 540007-100012
PID NUMBER: 99733

INTERCONNECT PLAN
WESTERVILLE RD BETWEEN STA. 301+00 AND 312+00

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

260
915

j:\jobs\63721 ctss phase e\TECHPROD\Sheets\CTSS_PhE_Trunk2_WESTERVILLE_INTERCONNECT.dwg ~ WESTERVILLE-4 layout ~ last saved by gburch 09/04/2018 03:25pm ~ printed 09/11/2018 10:15pm PSLTS: 1 LTS: 1 CAS: 1:1



WESTERVILLE RD BETWEEN STATION 312+00 AND 321+00

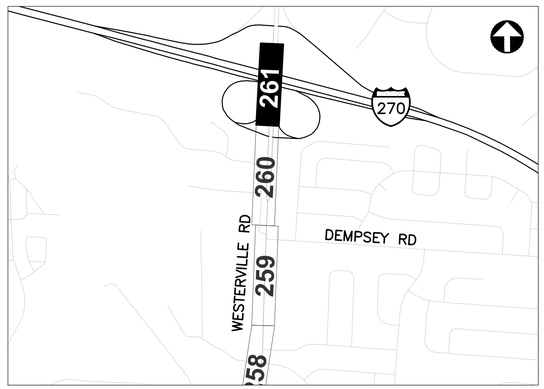
NOTES:

1. SEE SHEET 262 FOR QUANTITIES.
2. SEE SHEET 626 FOR COMMUNICATION DETAILS.
3. LIMITED ACCESS RIGHT OF WAY IS LOCATED OUTSIDE OF THE EXTENT OF VIEW SHOWN ABOVE.

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CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 8 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

HORIZONTAL SCALE IN FEET
0 40 80

CIP: 540007-100012
PID NUMBER: 99733

INTERCONNECT PLAN
WESTERVILLE RD BETWEEN STA. 312+00 AND 321+00

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

261
915

3378-E

J:\Jobs\63721 ctss phase e\TECHPROD\Sheets\CTSS_PhE_Trunk2_WESTERVILLE_INTERCONNECT.dwg – WESTERVILLE-5 layout ~ last saved by: gburch 09/18/2018 01:27pm ~ printed 09/18/2018 02:04pm PSLTS: 1 LTS: 1 CAS: 1:1

ESTIMATED QUANTITIES

SHEET NO.	REFERENCE NO.	LOCATION	STATION		202	202	632	632	632	632	632	632	632	633	633	633									
					EXISTING CONDUIT CLEANED, AS PER PLAN	REMOVAL, MISC.: REMOVE EXISTING OVERHEAD EQUIPMENT	INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 144 STRAND	INTERCONNECT CABLE, MISC.: FIBER OPTIC DROP CABLE, 24 STRAND	INTERCONNECT CABLE, MISC.: FIBER OPTIC FUSION SPLICE	INTERCONNECT CABLE, MISC.: OVERLASH TO EXISTING INTERCONNECT	INTERCONNECT CABLE, MISC.: TERMINATION PANEL, 24 FIBER	INTERCONNECT, MISC.: SPLICE ENCLOSURE, CLAMSHELL, 288 SPLICE	MESSENGER WIRE, 7 STRAND, 1/4" DIAMETER WITH ACCESSORIES, AS PER PLAN	CONTROLLER ITEM, MISC.: FIBER OPTIC ETHERNET TRANSCEIVER, SHORT RANGE	CONTROLLER ITEM, MISC.: LAYER 2 ETHERNET SWITCH	CONTROLLER UNIT, TYPE TS2/A2, AS PER PLAN								
			FROM	TO	FT	EACH	FT	FT	EACH	FT	EACH	EACH	FT	EACH	EACH	EACH									
WESTERVILLE RD. BETWEEN STA. 268+00 AND 279+00, INT 3242																									
257	TC-1	WESTERVILLE RD	271+10, 47' LT					10			1			2	1	1									
257	IC-3	WESTERVILLE RD	271+10, 47' LT			1		35																	
257	IC-2	WESTERVILLE RD	271+10, 47' LT	272+66, 45' LT				157					157												
257	SE A-1	WESTERVILLE RD	272+66, 45' LT				75	125	12			1													
257	IC-1	WESTERVILLE RD	272+66, 45' LT	279+00, 32' LT			644						644												
WESTERVILLE RD. BETWEEN STA. 279+00 AND 290+00																									
258	IC-1	WESTERVILLE RD	279+00, 32' LT	290+00, 32' LT			1,172						1,172												
258	IC-2	WESTERVILLE RD	286+35, 33' LT				150																		
WESTERVILLE RD. BETWEEN STA. 290+00 AND 301+00																									
259	IC-1	WESTERVILLE RD	290+00, 32' LT	299+25, 46' LT			940						940												
259	IC-2	WESTERVILLE RD	299+25, 46' LT	301+00, 89' LT			183			183															
WESTERVILLE RD. BETWEEN STA. 301+00 AND 312+00																									
260	IC-1	WESTERVILLE RD	301+00, 89' LT	309+76, 50' LT			903			903															
260	IC-2	WESTERVILLE RD	309+76, 50' LT				35																		
260	IC-3	WESTERVILLE RD	309+76, 50' LT	312+00, 51' LT	225		225																		
260	IC-4	WESTERVILLE RD	310+70, 59' LT				100																		
WESTERVILLE RD. BETWEEN STA. 312+00 AND 321+00																									
261	IC-1	WESTERVILLE RD	312+00, 51' LT	319+18, 93' LT	722		722																		
SHEET TOTAL					947	1	5,149	327	12	1,086	1	1	2,913	2	1	1	-	-	-	-	-	-	-	-	

AERIAL SAG: 1.5% AERIAL SAG IS INCLUDED IN THE QUANTITIES FOR ANY AERIAL FIBER OR CABLE ITEMS.

3378-E

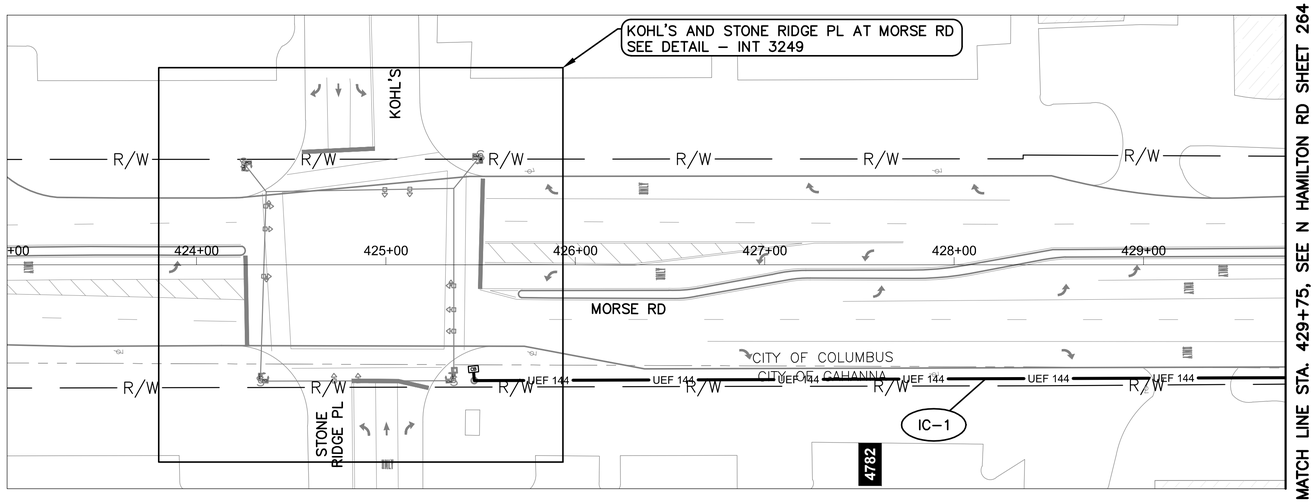
CIP: 540007-100012
PID NUMBER: 99733

WESTERVILLE RD BETWEEN STA. 268+00 & 321+00
INT 3242

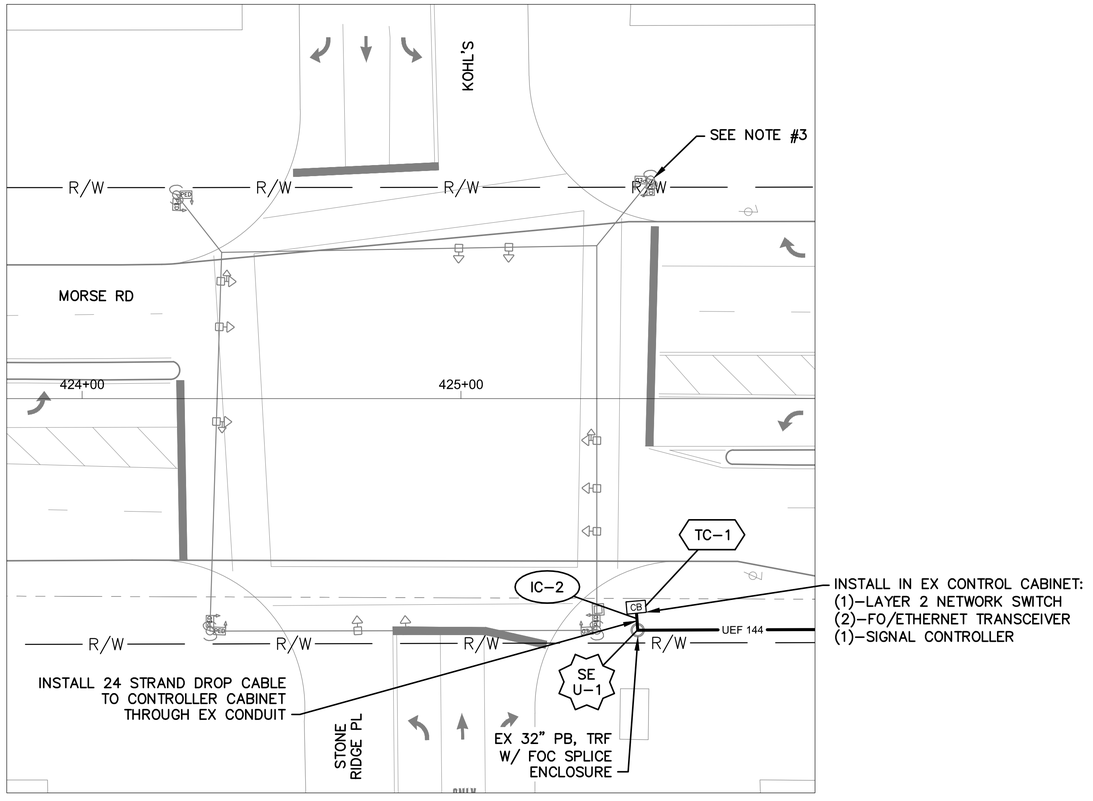
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

262
915

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MORSE RD BETWEEN STATION 423+00 AND 429+75



DETAIL - INT 3249

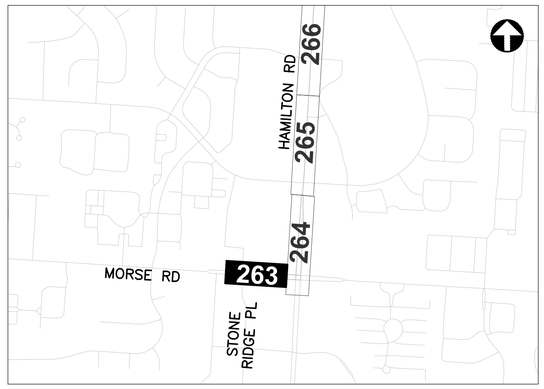
0 20 40
HORIZONTAL
SCALE IN FEET

NOTES:

1. SEE SHEET 268 FOR QUANTITIES.
2. SEE SHEETS 625 & 794 FOR COMMUNICATION DETAILS.
3. SIGNAL AGREEMENT CT–01017R IN PLACE BETWEEN CITY OF COLUMBUS AND THE OWNER OF THE REAL PROPERTY KOHL'S SHOPPING CENTER FOR MAINTENANCE OF TRAFFIC SIGNAL AT INT 3249.

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www.oups.org

CITY OF COLUMBUS UTILITY LEGEND
- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 8 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

0 40 80
HORIZONTAL
SCALE IN FEET

CIP: 540007–100012
PID NUMBER: 99733

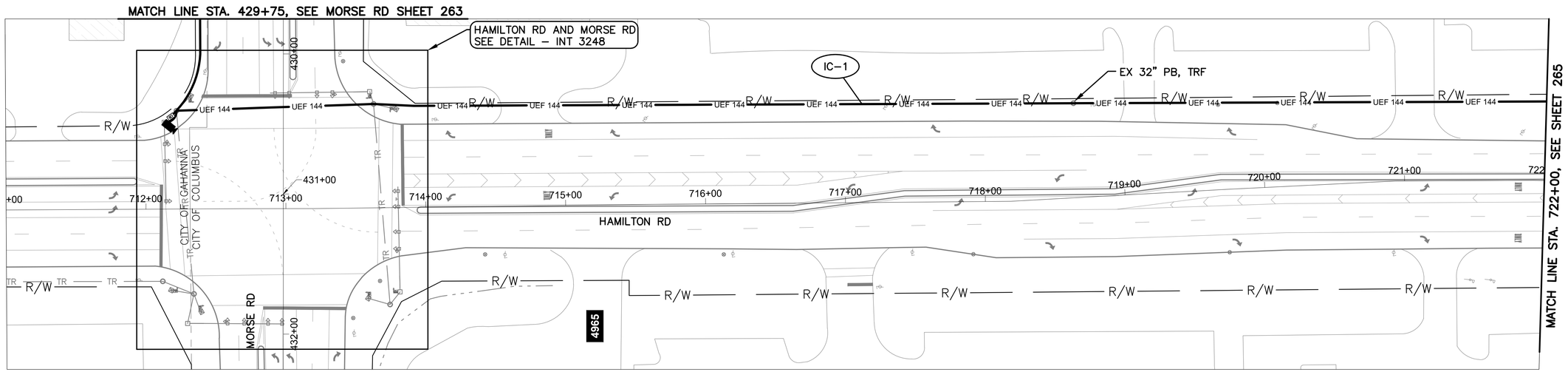
INTERCONNECT PLAN
MORSE RD BETWEEN STA. 423+00 AND 429+75, INT 3249

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

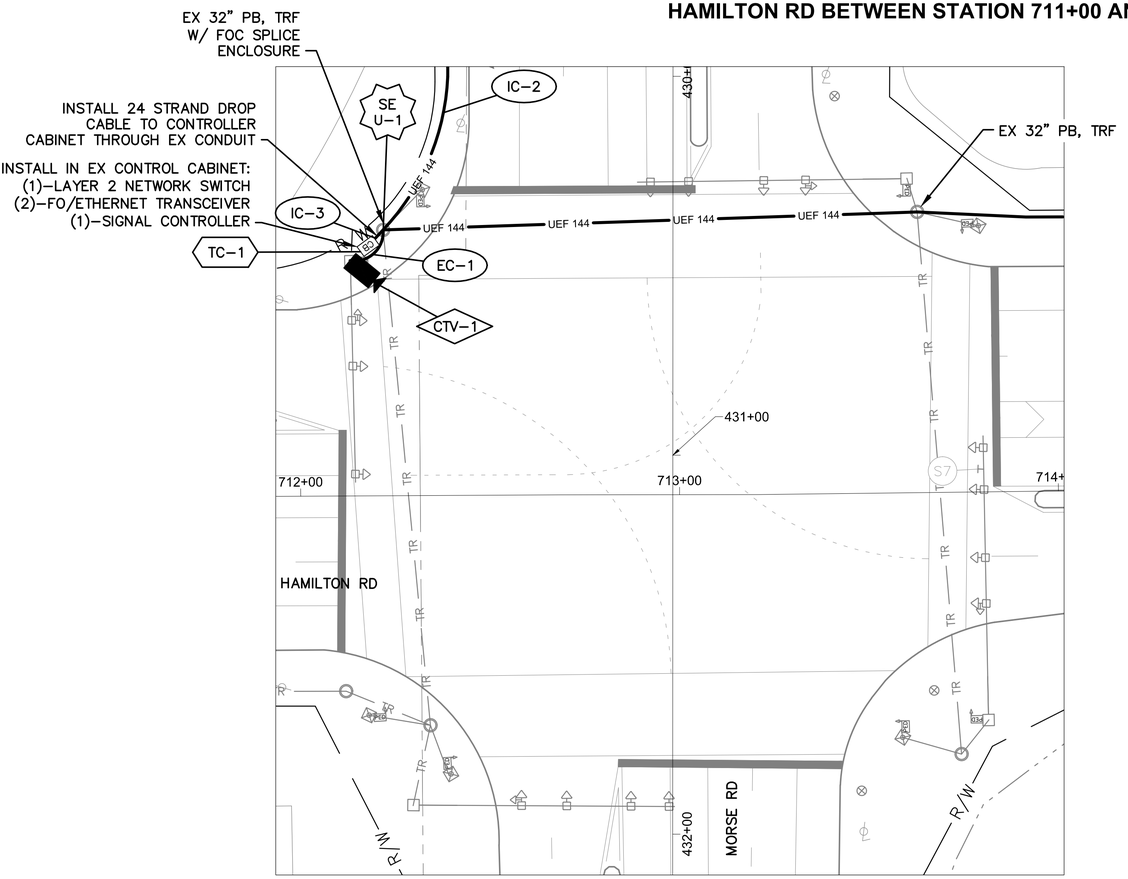
263
915

3378-E

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HAMILTON RD BETWEEN STATION 711+00 AND 722+00



DETAIL - INT 3248

0 20 40
HORIZONTAL
SCALE IN FEET

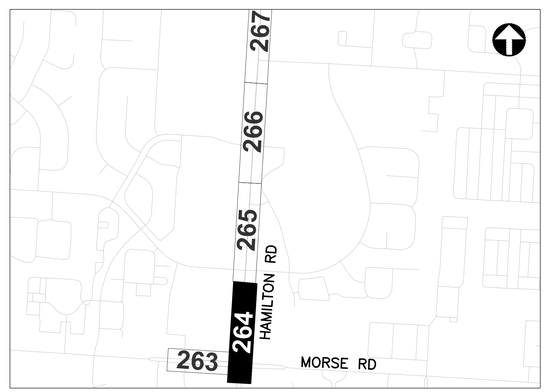
NOTES:

1. SEE SHEET 268 FOR QUANTITIES.
2. SEE SHEETS 625 & 795 FOR COMMUNICATION DETAILS.

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CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 8 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

0 40 80
HORIZONTAL
SCALE IN FEET

CIP: 540007–100012
PID NUMBER: 99733

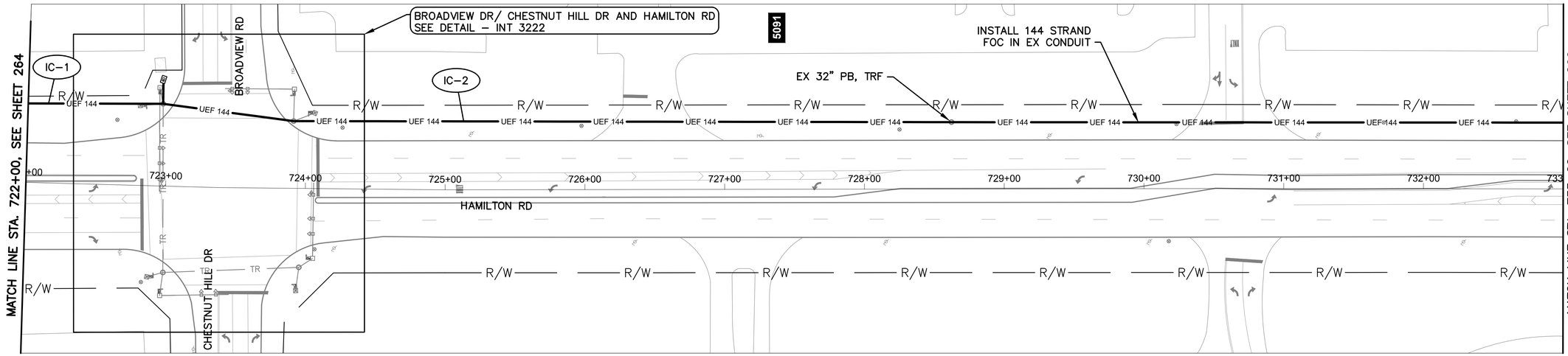
INTERCONNECT PLAN
HAMILTON RD BETWEEN STA. 711+00 AND 722+00, INT 3248

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

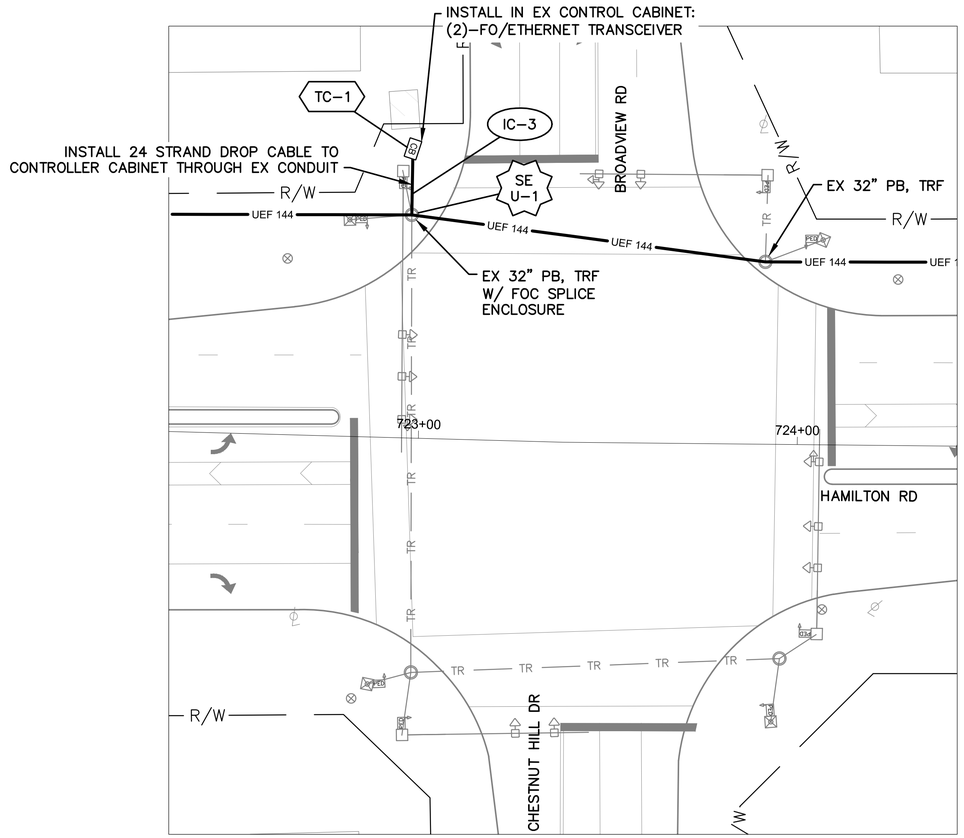
264
915

3378-E

J:\Jobs\63721 CTSS Phase E\TECHPROD\Sheets\CTSS_PhE_Trunk2_HAMILTON_INTERCONNECT.dwg – HAMILTON–1 layout ~ last saved by: gburch 09/13/2018 03:54pm ~ printed 09/13/2018 05:22pm PSLTS: 1 LTS: 1 CAS: 1:1



HAMILTON RD BETWEEN STATION 722+00 AND 733+00



DETAIL - INT 3222

0 20 40
HORIZONTAL
SCALE IN FEET

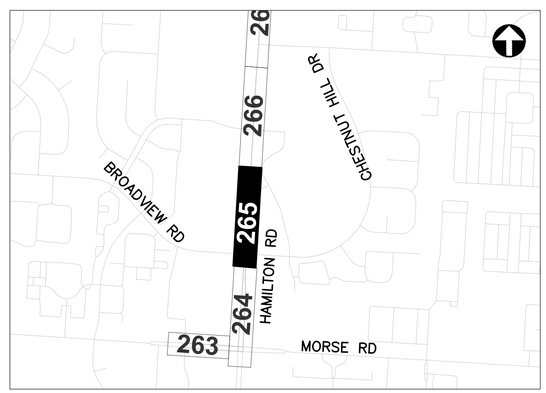
NOTES:

1. SEE SHEET 268 FOR QUANTITIES.
2. SEE SHEETS 625 & 796 FOR COMMUNICATION DETAILS.
3. FUTURE CONFIGURATION SHOWN PER FUTURE PROJECT E03228.

Ohio Utilities Protection Service
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www.oups.org

CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 8 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

0 40 80
HORIZONTAL
SCALE IN FEET

CIP: 540007–100012
PID NUMBER: 99733

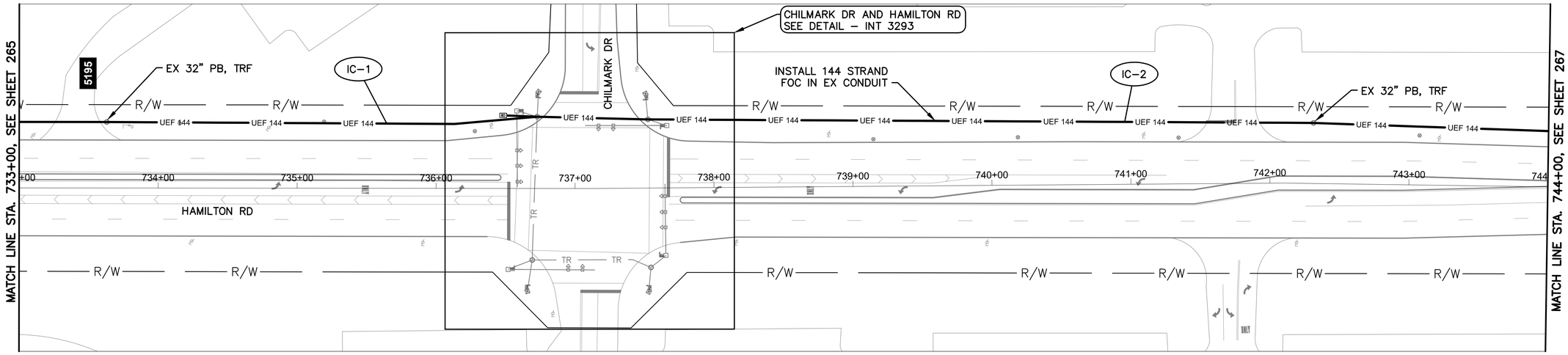
INTERCONNECT PLAN
HAMILTON RD BETWEEN STA. 722+00 AND 733+00, INT 3222

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

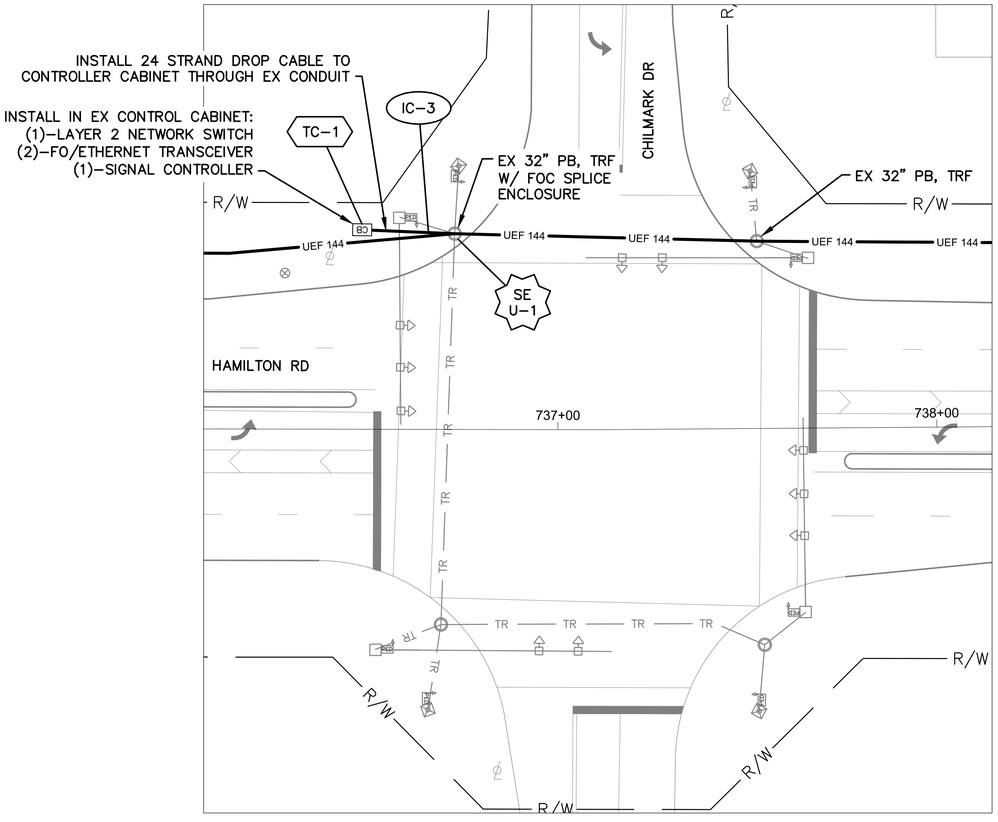
265
915

3378-E

j:\Jobs\63721 ctss phase e\TECHPROD\Sheets\CTSS_PhE_Trunk2_HAMILTON_INTERCONNECT.dwg – HAMILTON–2 layout ~ last saved by: gburch 09/07/2018 03:54pm ~ printed 09/11/2018 10:23pm PSLTS: 1 LTS: 1 CAS: 1:1



HAMILTON RD BETWEEN STATION 733+00 AND 744+00



DETAIL - INT 3293

0 20 40

HORIZONTAL
SCALE IN FEET

NOTES:

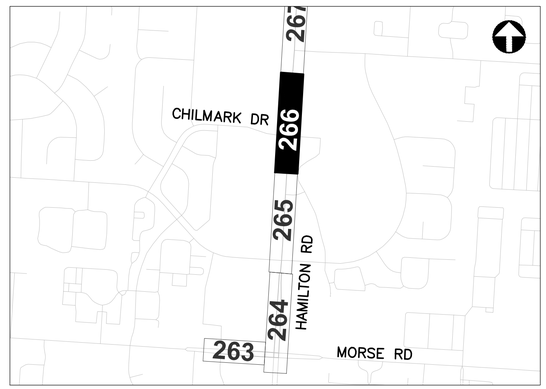
1. SEE SHEET 268 FOR QUANTITIES.
2. SEE SHEETS 625 & 797 FOR COMMUNICATION DETAILS.

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www.oups.org

CITY OF COLUMBUS
UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 8 FOR
INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

3378-E

0 40 80
HORIZONTAL
SCALE IN FEET

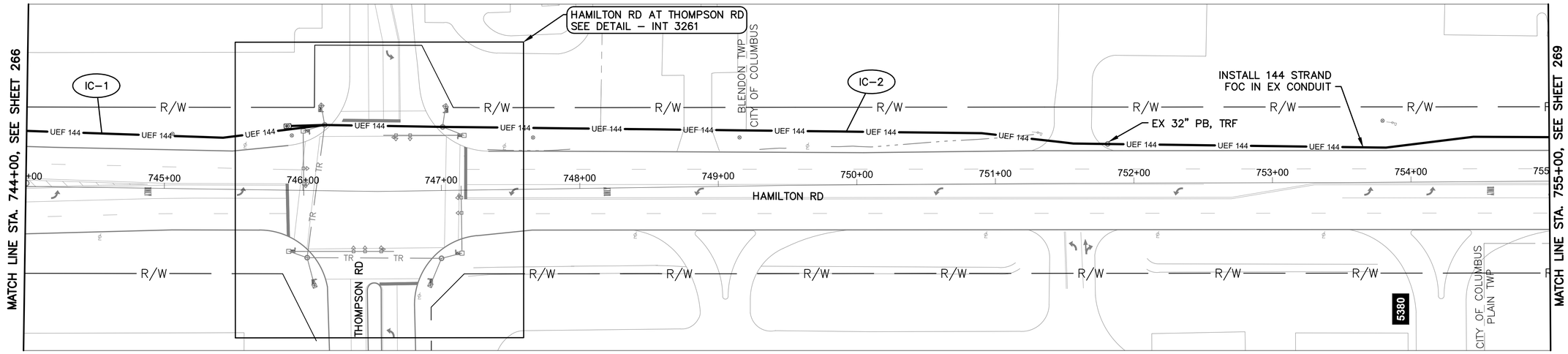
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PID NUMBER: 99733

INTERCONNECT PLAN
HAMILTON RD BETWEEN STA. 733+00 AND 744+00, INT 3293

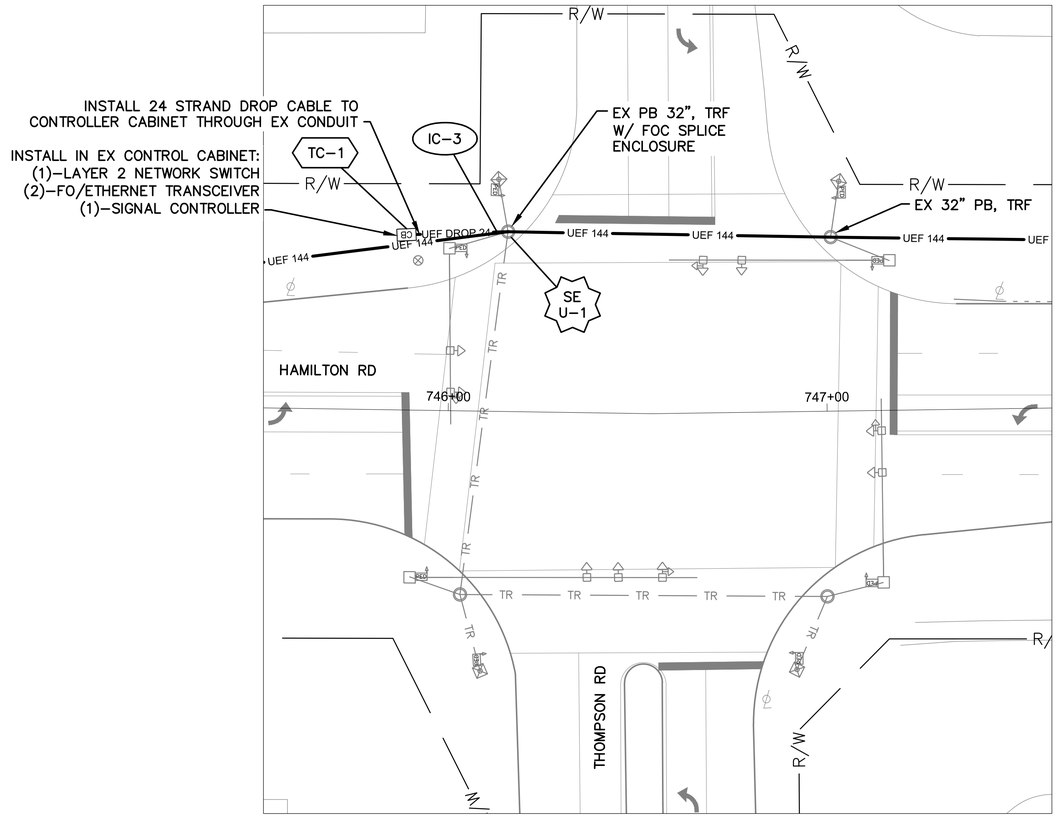
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

266
915

J:\Jobs\63721 CTSS Phase E\TECHPROD\Sheets\CTSS_PhE_Trunk2_HAMILTON_INTERCONNECT.dwg ~ HAMILTON-3 layout ~ last saved by: gburch 09/13/2018 03:54pm ~ printed 09/13/2018 05:23pm PSLTS: 1 LTS: 1 CAS: 1:1



HAMILTON RD BETWEEN STATION 744+00 AND 755+00



DETAIL - INT 3261

0 20 40

HORIZONTAL
SCALE IN FEET

NOTES:

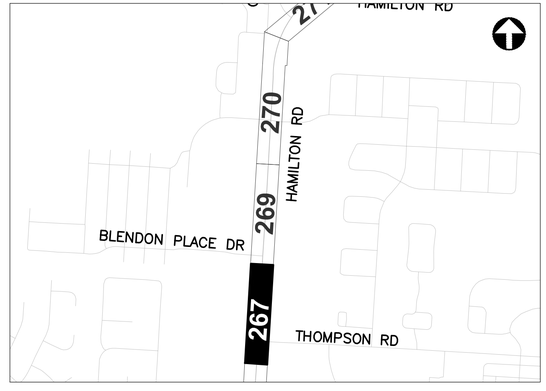
1. SEE SHEET 268 FOR QUANTITIES.
2. SEE SHEETS 625 & 798 FOR COMMUNICATION DETAILS.

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CITY OF COLUMBUS
UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 8 FOR
INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

0 40 80

HORIZONTAL
SCALE IN FEET

CIP: 540007–100012
PID NUMBER: 99733

INTERCONNECT PLAN
HAMILTON RD BETWEEN STA. 744+00 AND 755+00, INT 3261

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

267
915

3378-E

J:\Jobs\63721 CTSS Phase E\TECHPROD\Sheets\CTSS_PhE_Trunk2_HAMILTON_INTERCONNECT.dwg – HAMILTON-4 layout ~ last saved by: gburch 09/13/2018 03:54pm ~ printed 09/13/2018 05:24pm PSLTS: 1 LTS: 1 CAS: 1:1

ESTIMATED QUANTITIES

SHEET NO.	REFERENCE NO.	LOCATION	STATION		202	632	632	632	632	632	632	632	633	633	633										
					EXISTING CONDUIT CLEANED, AS PER PLAN	INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 144 STRAND	INTERCONNECT CABLE, MISC.: FIBER OPTIC DROP CABLE, 24 STRAND	INTERCONNECT CABLE, MISC.: FIBER OPTIC FUSION SPLICE	INTERCONNECT CABLE, MISC.: TERMINATION PANEL, 24 FIBER	INTERCONNECT, MISC.: SPLICE ENCLOSURE, CLAMSHELL, 288 SPLICE	SIGNALIZATION, MISC.: CCTV COMPOSITE CABLE	SIGNALIZATION, MISC.: CCTV IP-CAMERA SYSTEM	CONTROLLER ITEM, MISC.: FIBER OPTIC ETHERNET TRANSCEIVER, SHORT RANGE	CONTROLLER ITEM, MISC.: LAYER 2 ETHERNET SWITCH	CONTROLLER UNIT, TYPE TS2/A2, AS PER PLAN									
			FROM	TO	FT	FT	FT	EACH	EACH	EACH	FT	EACH	EACH	EACH	EACH										
MORSE RD. BETWEEN STA. 423+00 AND 429+75, INT 3249																									
263	TC-1	MORSE RD	425+46, 55' RT				10		1				2	1	1										
263	IC-2	MORSE RD	425+46, 55' RT	425+46, 61' RT	6		6																		
263	SE U-1	MORSE RD	425+46, 61' RT			75	125	12		1															
263	IC-1	MORSE RD	425+46, 61' RT	429+75, 60' RT	428	428																			
HAMILTON RD. BETWEEN STA. 711+00 AND 722+00, INT 3248																									
264	CTV-1	HAMILTON RD	712+13, 62' LT								35	1													
264	EC-1	HAMILTON RD	712+13, 62' LT	712+18, 66' LT	28						56														
264	TC-1	HAMILTON RD	712+18, 66' LT				10		1		20		2	1	1										
264	IC-3	HAMILTON RD	712+18, 66' LT	712+22, 70' LT			6																		
264	SE U-1	HAMILTON RD	712+22, 70' LT			150	125	24		1															
264	IC-2	HAMILTON RD	712+22, 70' LT	712+39, 136' LT	70	70																			
264	IC-1	HAMILTON RD	712+22, 70' LT	722+00, 56' LT	980	980																			
HAMILTON RD. BETWEEN STA. 722+00 AND 733+00, INT 3222																									
265	IC-1	HAMILTON RD	722+00, 56' LT	722+96, 59' LT	97	97																			
265	SE U-1	HAMILTON RD	722+96, 59' LT			150	125	24		1															
265	IC-2	HAMILTON RD	722+96, 59' LT	733+00, 47' LT	1,003	1,003																			
265	TC-1	HAMILTON RD	722+96, 76' LT				10		1				2												
265	IC-3	HAMILTON RD	722+96, 76' LT	722+96, 59' LT	17		17																		
HAMILTON RD. BETWEEN STA. 733+00 AND 744+00, INT 3293																									
266	IC-1	HAMILTON RD	733+00, 47' LT	736+72, 52' LT	373	373																			
266	TC-1	HAMILTON RD	736+48, 53' LT				10		1				2	1	1										
266	IC-3	HAMILTON RD	736+48, 53' LT	736+72, 52' LT	24		24																		
266	SE U-1	HAMILTON RD	736+72, 52' LT			150	125	24		1															
266	IC-2	HAMILTON RD	736+72, 52' LT	744+00, 40' LT	728	728																			
HAMILTON RD. BETWEEN STA. 744+00 AND 755+00, INT 3261																									
267	IC-1	HAMILTON RD	744+00, 40' LT	746+15, 47' LT	216	216																			
267	TC-1	HAMILTON RD	745+88, 46' LT				10		1				2	1	1										
267	IC-3	HAMILTON RD	745+88, 46' LT	746+15, 47' LT	27		27																		
267	SE U-1	HAMILTON RD	746+15, 47' LT			150	125	24		1															
267	IC-2	HAMILTON RD	746+15, 47' LT	755+00, 32' LT	885	885																			
SHEET TOTAL					4,882	5,455	755	108	5	5	111	1	10	4	4	-	-	-	-	-	-	-	-	-	-

AERIAL SAG: 1.5% AERIAL SAG IS INCLUDED IN THE QUANTITIES FOR ANY AERIAL FIBER OR CABLE ITEMS.

3378-E

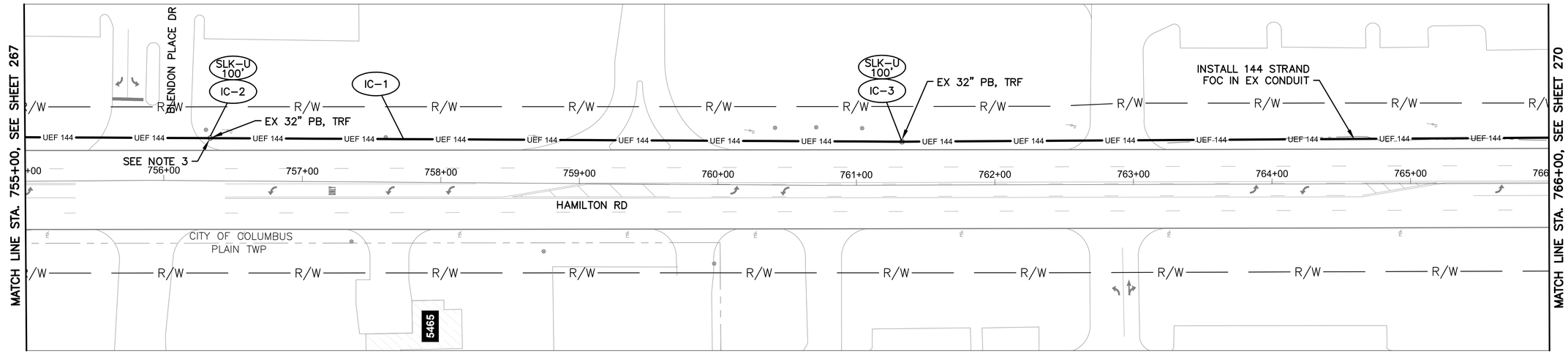
CIP: 540007-100012
PID NUMBER: 99733

MORSE RD BETWEEN STA. 423+00 & 429+75, HAMILTON RD
BETWEEN STA. 711+00 & 755+00, INTS 3249, 3248, 3222, 3293, 3261

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

268
915

J:\Jobs\63721 CTSS Phase E\TECHPROD\Sheets\CTSS_PhE_Trunk2_HAMILTON_IC_QUANTITIES.dwg ~ HAMILTON RD-Q1 layout ~ last saved by: gburch 09/11/2018 09:07am ~ printed 09/18/2018 09:59am PSLTS: 1 LTS: 1 CAS: 1:1



HAMILTON RD BETWEEN STATION 755+00 AND 766+00

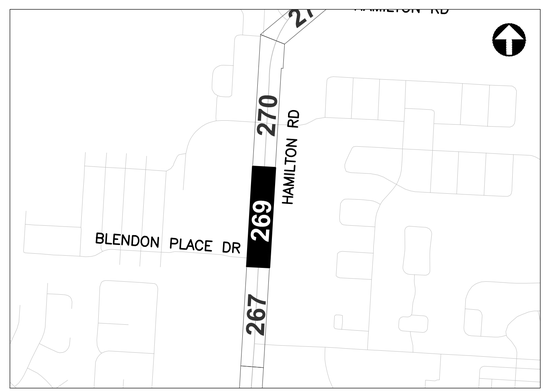
NOTES:

1. SEE SHEET 278 FOR QUANTITIES.
2. SEE SHEET 625 FOR COMMUNICATION DETAILS.
3. SLACK ADDED AT BLENDON PLACE DRIVE FOR CONNECTION TO FUTURE SIGNAL PER E03271 PLANS.

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CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 8 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

3378-E

HORIZONTAL SCALE IN FEET
0 40 80

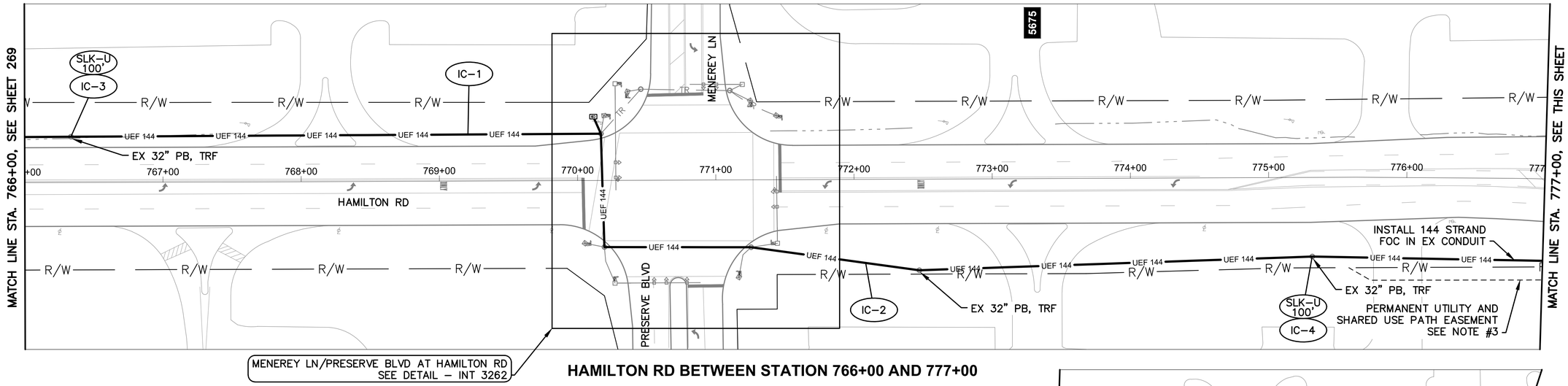
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PID NUMBER: 99733

INTERCONNECT PLAN
HAMILTON RD BETWEEN STA. 755+00 AND 766+00

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

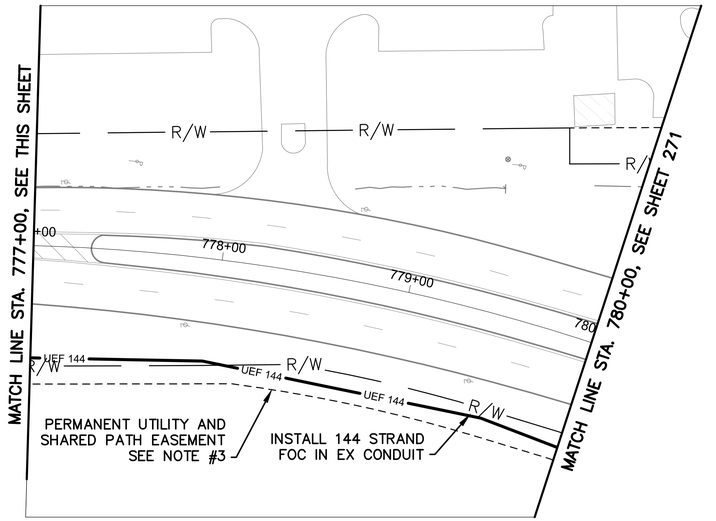
269
915

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MENEREY LN/PRESERVE BLVD AT HAMILTON RD
SEE DETAIL – INT 3262

HAMILTON RD BETWEEN STATION 766+00 AND 777+00



HAMILTON RD BETWEEN STATION 777+00 AND 780+00

DETAIL - INT 3262

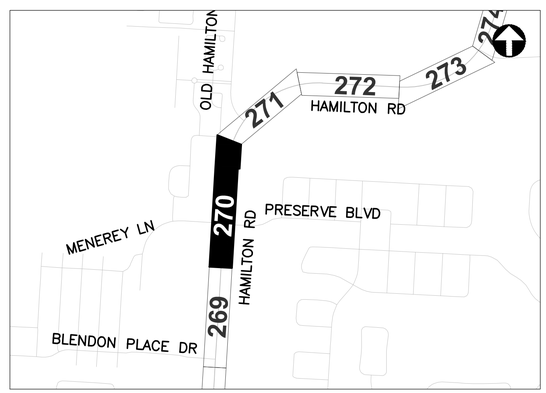
0 20 40
HORIZONTAL SCALE IN FEET

NOTES:

1. SEE SHEET 277 FOR QUANTITIES.
2. SEE SHEETS 625 & 799 FOR COMMUNICATION DETAILS.
3. EXISTING UTILITY AND SHARED USE PATH EASEMENT UNDER INSTRUMENT NUMBERS 201604220049450 AND 201604220049443 AS SHOWN PER HAMILTON ROAD PHASE B PLAN E03235.

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CITY OF COLUMBUS UTILITY LEGEND
- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 8 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

0 40 80
HORIZONTAL SCALE IN FEET

CIP: 540007–100012
PID NUMBER: 99733

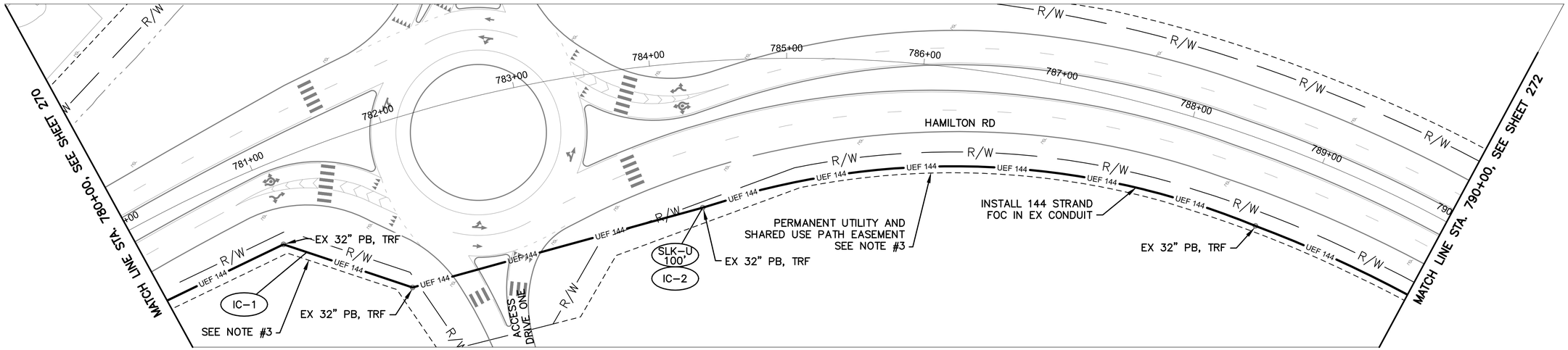
INTERCONNECT PLAN
HAMILTON RD BETWEEN STA. 766+00 AND 777+00, INT 3262

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

270
915

3378-E

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HAMILTON RD BETWEEN STATION 780+00 AND 790+00

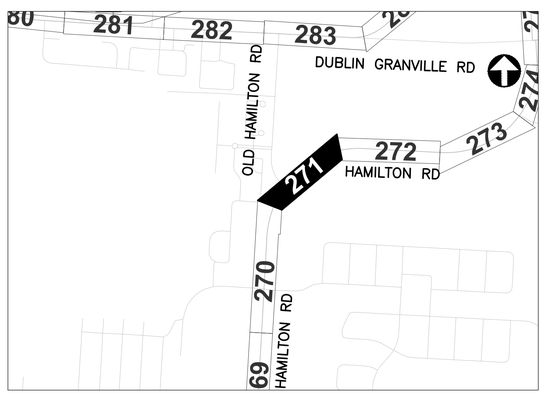
NOTES:

1. SEE SHEET 278 FOR QUANTITIES.
2. SEE SHEET 625 FOR COMMUNICATION DETAILS.
3. EXISTING UTILITY AND SHARED USE PATH EASEMENT UNDER INSTRUMENT NUMBERS 201604220049441 AND 201604220049450 AS SHOWN PER HAMILTON ROAD PHASE B PLAN E03235.

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CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 8 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

3378-E

HORIZONTAL SCALE IN FEET
0 40 80

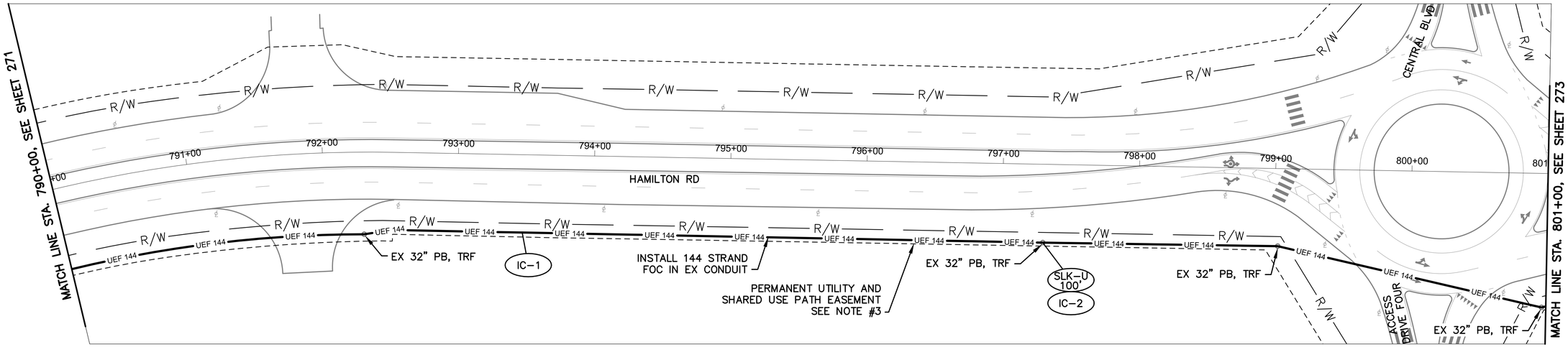
CIP: 540007-100012
PID NUMBER: 99733

INTERCONNECT PLAN
HAMILTON RD BETWEEN STA. 780+00 AND 790+00

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

271
915

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HAMILTON RD BETWEEN STATION 790+00 AND 801+00

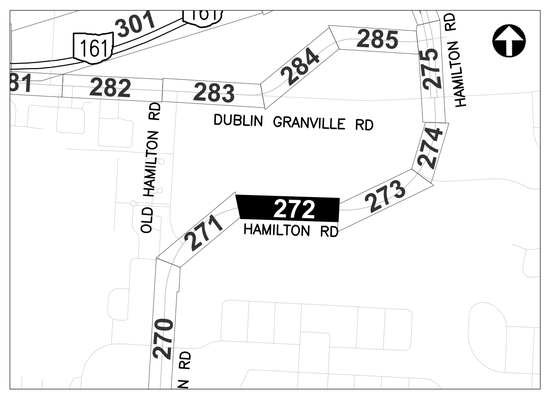
NOTES:

1. SEE SHEET 278 FOR QUANTITIES.
2. SEE SHEET 625 FOR COMMUNICATION DETAILS.
3. EXISTING UTILITY AND SHARED USE PATH EASEMENT UNDER INSTRUMENT NUMBERS 201604220049441 AND 201604220049450 AS SHOWN PER HAMILTON ROAD PHASE B PLAN E03235.

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CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 8 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

HORIZONTAL SCALE IN FEET
0 40 80

CIP: 540007-100012
PID NUMBER: 99733

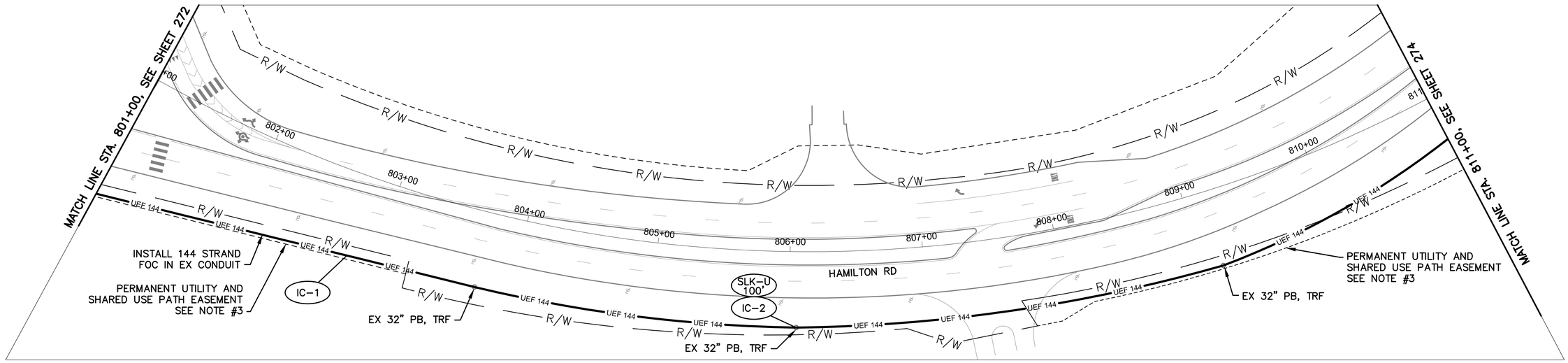
INTERCONNECT PLAN
HAMILTON RD BETWEEN STA. 790+00 AND 801+00

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

272
915

3378-E

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HAMILTON RD BETWEEN STATION 801+00 AND 811+00

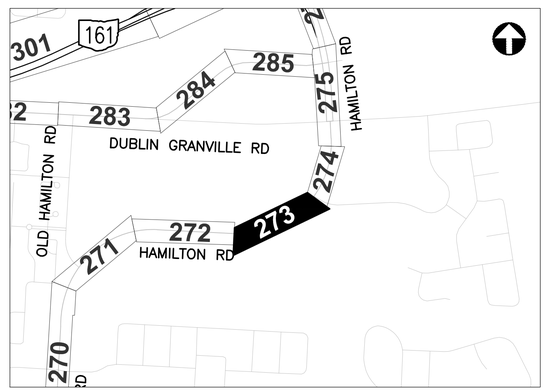
NOTES:

1. SEE SHEET 278 FOR QUANTITIES.
2. SEE SHEET 625 FOR COMMUNICATION DETAILS.
3. EXISTING UTILITY AND SHARED USE PATH EASEMENT UNDER INSTRUMENT NUMBERS 201604220049441, 201604220049446, AND 201604220049450 AS SHOWN PER HAMILTON ROAD PHASE B PLAN E03235.

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CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 8 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

HORIZONTAL SCALE IN FEET
0 40 80

CIP: 540007-100012
PID NUMBER: 99733

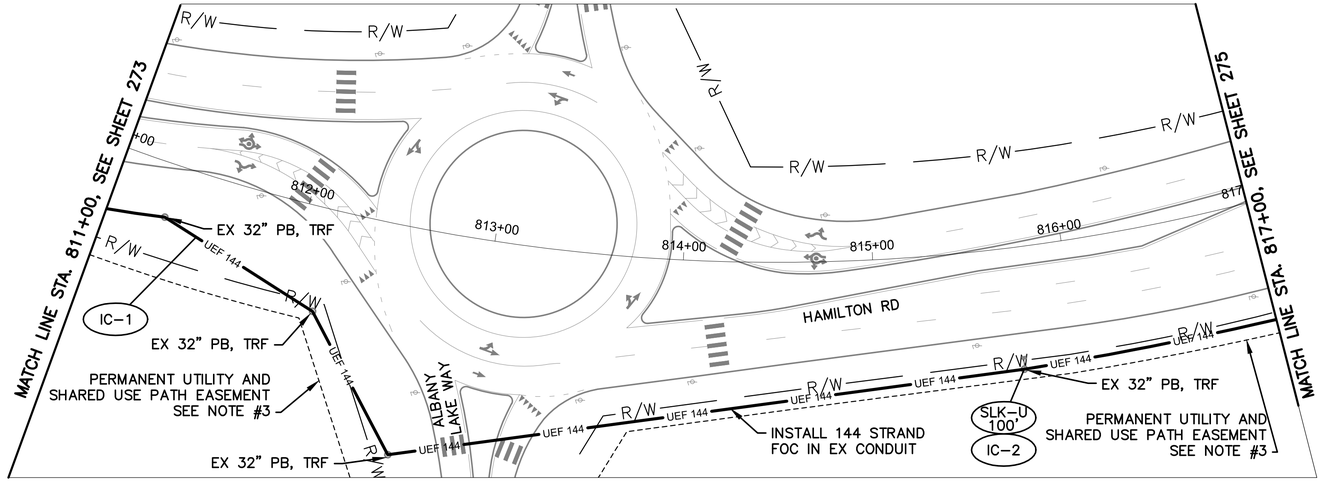
INTERCONNECT PLAN
HAMILTON RD BETWEEN STA. 801+00 AND 811+00

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

273
915

3378-E

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HAMILTON RD BETWEEN STATION 811+00 AND 817+00

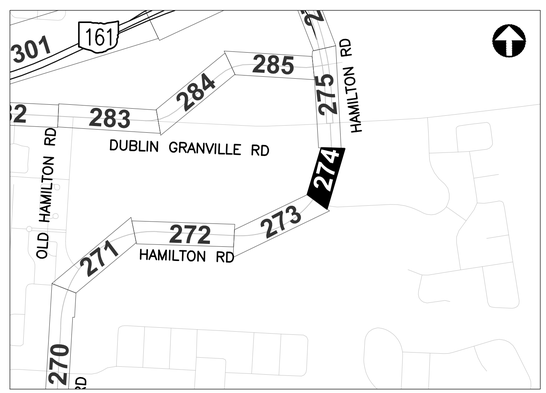
NOTES:

1. SEE SHEET 278 FOR QUANTITIES.
2. SEE SHEET 625 FOR COMMUNICATION DETAILS.
3. EXISTING UTILITY AND SHARED USE PATH EASEMENT UNDER INSTRUMENT NUMBER 201604220049441 AS SHOWN PER HAMILTON ROAD PHASE B PLAN E03235.

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CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 8 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

HORIZONTAL SCALE IN FEET
0 40 80

CIP: 540007-100012
PID NUMBER: 99733

INTERCONNECT PLAN
HAMILTON RD BETWEEN STA. 811+00 AND 817+00

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

274
915

3378-E

J:\Jobs\63721 ctss phase e\TECHPROD\Sheets\CTSS_PhE_Trunk2_HAMILTON_SCURVE_INTERCONNECT.dwg – HAMILTON-SC4 layout ~ last saved by gburch 09/07/2018 03:52pm ~ printed 09/11/2018 10:39pm PSLTS: 1 LTS: 1 CAS: 1:1

OLD DUBLIN GRANVILLE RD AT HAMILTON RD
SEE DETAIL – INT 3240

MATCH LINE STA. 72+00, SEE DUBLIN GRANVILLE RD SHEET 285

MATCH LINE STA. 817+00, SEE SHEET 274

MATCH LINE STA. 828+00, SEE SHEET 276

5150

OLD DUBLIN GRANVILLE RD

DUBLIN GRANVILLE RD

HAMILTON RD

INSTALL 144 STRAND FOC IN EX CONDUIT

IC–1

PERMANENT UTILITY AND SHARED USE PATH EASEMENT

EX 144 STRAND FOC INTERCONNECT DUBLIN–GRANVILLE ROAD REALIGNMENT DR–E 3335

EX 144 STRAND FOC INTERCONNECT DUBLIN–GRANVILLE ROAD REALIGNMENT DR–E 3335

EX 144 STRAND FOC INTERCONNECT DUBLIN–GRANVILLE ROAD REALIGNMENT DR–E 3335

HAMILTON RD BETWEEN STATION 817+00 AND 828+00

EXISTING SPLICE ENCLOSURE INSTALLED VIA CITY OF COLUMBUS PROJECT 3335–E

PC

SP

EC–2

TC–1

EC–1

EC–3

CTV–1

INSTALL CCTV COMPOSITE CABLE TO CONTROLLER CABINET THROUGH EX CONDUIT

EXISTING DROP INSTALLED VIA CITY OF COLUMBUS PROJECT 3335–E

EX 48" PB, TRF

SE U–1

EX 32" PB, TRF

EX 48" PB, TRF W/ EX FOC SPLICE ENCLOSURE FULL BUTT SPLICE REQUIRED

DETAIL - INT 3240

HORIZONTAL SCALE IN FEET

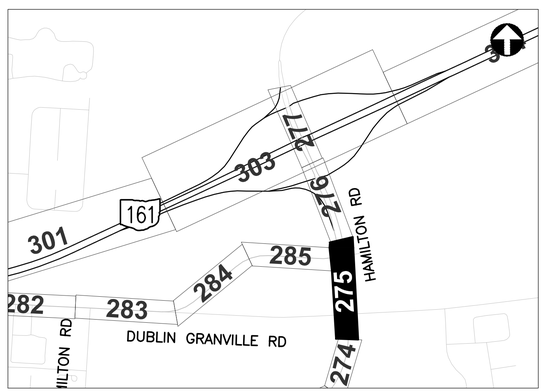
NOTES:

1. SEE SHEET 278 FOR QUANTITIES.
2. SEE SHEETS 626, 800, & 801 FOR COMMUNICATION DETAILS.
3. EXISTING UTILITY AND SHARED USE PATH EASEMENT UNDER INSTRUMENT NUMBER 201604220049441 AS SHOWN PER HAMILTON ROAD PHASE B PLAN #E03235.
4. RETURN CELLULAR ETHERNET MODEM TO CITY OF COLUMBUS.

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CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 8 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

HORIZONTAL SCALE IN FEET

CIP: 540007–100012
PID NUMBER: 99733

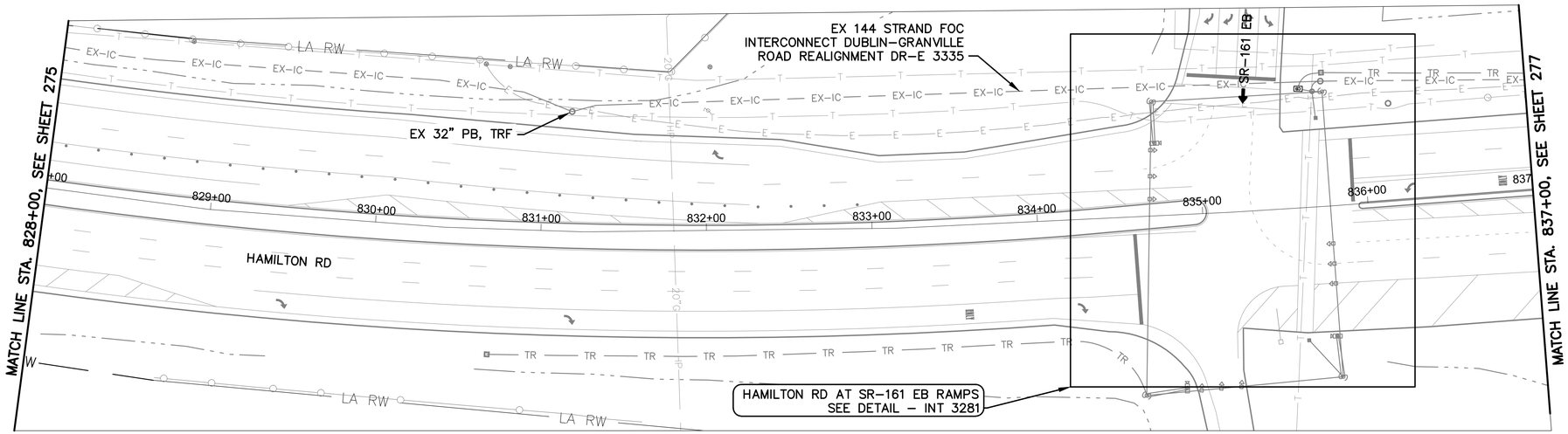
INTERCONNECT PLAN
HAMILTON RD BETWEEN STA. 817+00 AND 828+00, INT 3240

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

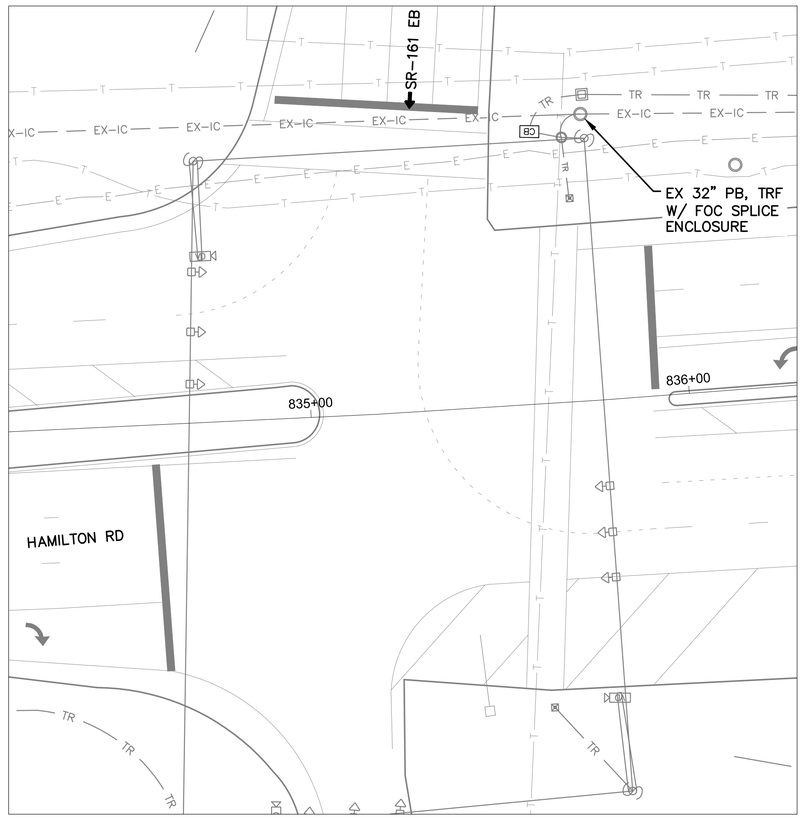
275
915

3378-E

J:\Jobs\63721 ctss phase e\TECHPROD\Sheets\CTSS_PhE_Trunk2_HAMILTON_INTERCONNECT.dwg ~ HAMILTON–9 layout ~ last saved by: gburch 09/07/2018 03:54pm ~ printed 09/11/2018 10:41pm PSLTS: 1 LTS: 1 CAS: 1:1



HAMILTON RD BETWEEN STATION 828+00 AND 837+00



DETAIL - INT 3281

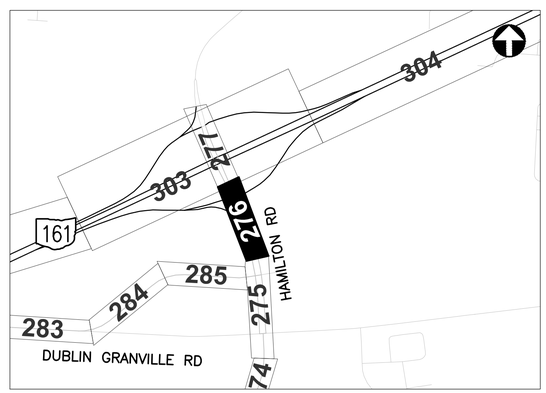
0 20 40
HORIZONTAL
SCALE IN FEET

NOTES:

1. NO WORK PERFORMED ON THIS SHEET. FOR REFERENCE ONLY.
2. SEE SHEETS 626 & 802 FOR COMMUNICATION DETAILS.
3. EX 144 STRAND FOC INTERCONNECT WAS INSTALLED AS PART OF COC PLANS #E03335.
4. RETURN CELLULAR ETHERNET MODEM TO CITY OF COLUMBUS.

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CITY OF COLUMBUS UTILITY LEGEND
- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 8 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

0 40 80
HORIZONTAL
SCALE IN FEET

CIP: 540007-100012
PID NUMBER: 99733

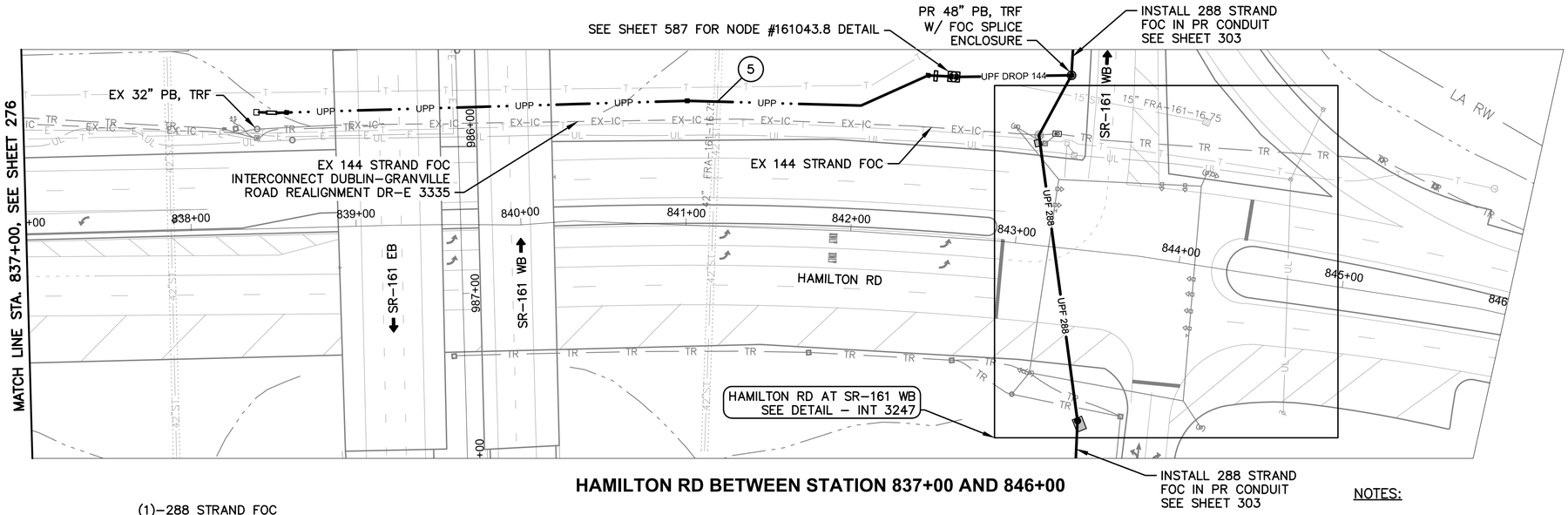
INTERCONNECT PLAN
HAMILTON RD BETWEEN STA. 828+00 AND 837+00, INT 3281

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E - FINAL SUBMITTAL

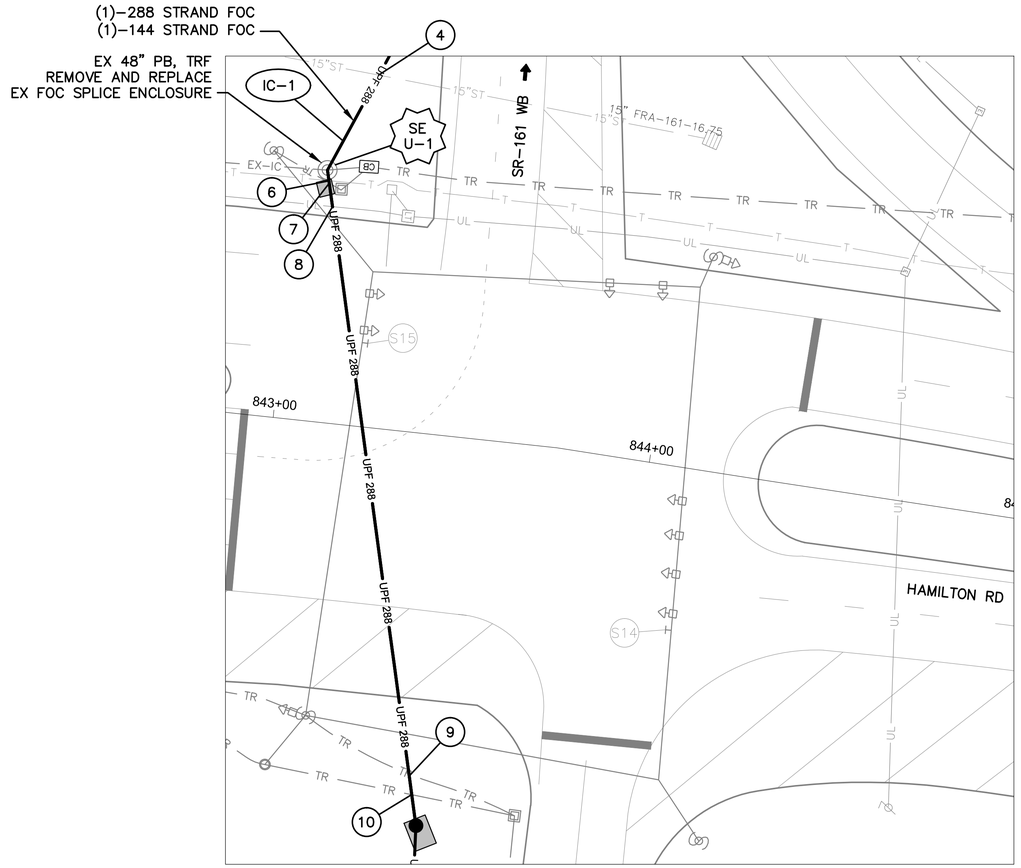
276
915

3378-E

J:\Jobs\63721 ctss phase e\TECHPROD\Sheets\CTSS_PhE_Trunk2_HAMILTON_INTERCONNECT.dwg ~ HAMILTON-10 layout ~ last saved by: gburch 09/07/2018 03:54pm ~ printed 09/11/2018 10:43pm PSLTS: 1 LTS: 1 CAS: 1:1



HAMILTON RD BETWEEN STATION 837+00 AND 846+00



DETAIL - INT 3247

0 20 40
HORIZONTAL SCALE IN FEET

NOTES:

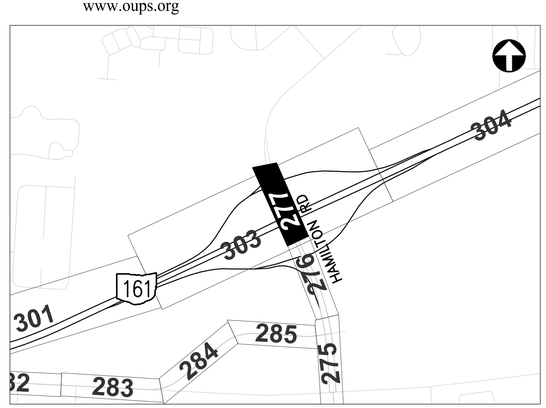
1. SEE SHEET 278 FOR QUANTITIES.
2. SEE SHEETS 626 & 804 FOR COMMUNICATION DETAILS.
3. SEE SHEET 587 FOR NODE DETAIL.
4. SEE SHEET 303 FOR UTILITY CROSSINGS 1-3.
5. LIMITED ACCESS RIGHT OF WAY IS LOCATED OUTSIDE OF THE EXTENT OF VIEW SHOWN ABOVE.
6. RETURN CELLULAR ETHERNET MODEM TO CITY OF COLUMBUS.

(#) EXISTING UTILITY CROSSING. SEE UTILITY CROSSING INFO SHEET 18.

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CITY OF COLUMBUS UTILITY LEGEND

☒	SEWER
☐	WATER
☐	POWER
☒	LIGHTING



REFER TO SHEET 8 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

0 40 80
HORIZONTAL SCALE IN FEET

CIP: 540007-100012
PID NUMBER: 99733

INTERCONNECT PLAN
HAMILTON RD BETWEEN STA. 837+00 AND 846+00, INT 3247

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E - FINAL SUBMITTAL

277
915

3378-E

J:\Jobs\63721 ctss phase e\TECHPROD\Sheets\CTSS_PhE_Trunk2_HAMILTON_2_INTERCONNECT.dwg - HAMILTON-11 layout ~ last saved by: gburch 06/15/2018 10:53am ~ printed 09/11/2018 10:46pm PSLTS: 1 LTS: 1 CAS: 1:1

ESTIMATED QUANTITIES

SHEET NO.	REFERENCE NO.	LOCATION	STATION		202	632	632	632	632	632	632	632	633	633	633										
					EXISTING CONDUIT CLEANED, AS PER PLAN	INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 144 STRAND	INTERCONNECT CABLE, MISC.: FIBER OPTIC DROP CABLE, 24 STRAND	INTERCONNECT CABLE, MISC.: FIBER OPTIC FUSION SPLICE	INTERCONNECT CABLE, MISC.: TERMINATION PANEL, 24 FIBER	INTERCONNECT, MISC.: SPLICE ENCLOSURE CLAMSHELL, 288 SPLICE	SIGNALIZATION, MISC.: CCTV COMPOSITE CABLE	SIGNALIZATION, MISC.: CCTV IP-CAMERA SYSTEM	CONTROLLER ITEM, MISC.: FIBER OPTIC ETHERNET TRANSCEIVER, SHORT RANGE	CONTROLLER ITEM, MISC.: LAYER 2 ETHERNET SWITCH	CONTROLLER UNIT, TYPE TS2/A2, AS PER PLAN									
			FROM	TO	FT	FT	FT	EACH	EACH	EACH	FT	EACH	EACH	EACH	EACH										
HAMILTON RD. BETWEEN STA. 755+00 AND 766+00																									
269	IC-1	HAMILTON RD	755+00, 32' LT	766+00, 33' LT	1,100	1,100																			
269	IC-2	HAMILTON RD	756+33, 31' LT			100																			
269	IC-3	HAMILTON RD	761+33, 31' LT			100																			
HAMILTON RD. BETWEEN STA. 766+00 AND 780+00, INT 3262																									
270	IC-1	HAMILTON RD	766+00, 33' LT	770+16, 34' LT	417	417																			
270	IC-3	HAMILTON RD	766+33, 33' LT			100																			
270	TC-1	HAMILTON RD	770+11, 46' LT				10		1				2	1	1										
270	IC-5	HAMILTON RD	770+11, 46' LT	770+16, 34' LT	14		14																		
270	SE U-1	HAMILTON RD	770+16, 34' LT			150	125	24		1															
270	IC-2	HAMILTON RD	770+16, 34' LT	780+00, 58' RT	1,046	1,046																			
270	IC-4	HAMILTON RD	775+31, 57' RT			100																			
HAMILTON RD. BETWEEN STA. 780+00 AND 790+00																									
271	IC-1	HAMILTON RD	780+00, 58' RT	790+00, 60' RT	945	945																			
271	IC-2	HAMILTON RD	784+30, 106' RT			100																			
HAMILTON RD. BETWEEN STA. 790+00 AND 801+00																									
272	IC-1	HAMILTON RD	790+00, 60' RT	801+00, 98' RT	1,090	1,090																			
272	IC-2	HAMILTON RD	797+29, 58' RT			100																			
HAMILTON RD. BETWEEN STA. 801+00 AND 811+00																									
273	IC-1	HAMILTON RD	801+00, 98' RT	811+00, 34' RT	1,063	1,063																			
273	IC-2	HAMILTON RD	806+05, 57' RT			100																			
HAMILTON RD. BETWEEN STA. 811+00 AND 817+00																									
274	IC-1	HAMILTON RD	811+00, 34' RT	817+00, 63' RT	684	684																			
274	IC-2	HAMILTON RD	815+72, 64' RT			100																			
HAMILTON RD. BETWEEN STA. 817+00 AND 828+00, INTS 3240 & SPLICE-01																									
275	IC-1	HAMILTON RD	817+00, 63' RT	820+39, 63' RT	345	345																			
275	CTV-1	HAMILTON RD	820+15, 73' LT									1													
275	EC-1	HAMILTON RD	820+15, 73' LT	820+32, 98' LT						30															
275	EC-2	HAMILTON RD	820+32, 98' LT							35															
275	EC-3	HAMILTON RD	820+32, 98' LT	820+62, 91' LT	53					106															
275	SE U-1	HAMILTON RD	820+39, 63' RT			75		144		1															
275	TC-1	HAMILTON RD	820+62, 91' LT							20															
HAMILTON RD. BETWEEN STA. 837+00 AND 846+00, INT 3247																									
277	SE U-1	HAMILTON RD	843+07, 66' LT			75		144		1															
277	IC-1	HAMILTON RD	843+07, 66' LT	843+23, 105' LT		41																			
SHEET TOTAL					6,757	7,831	149	312	1	3	191	1	2	1	1	-	-	-	-	-	-	-	-	-	-

AERIAL SAG: 1.5% AERIAL SAG IS INCLUDED IN THE QUANTITIES FOR ANY AERIAL FIBER OR CABLE ITEMS.

3378-E

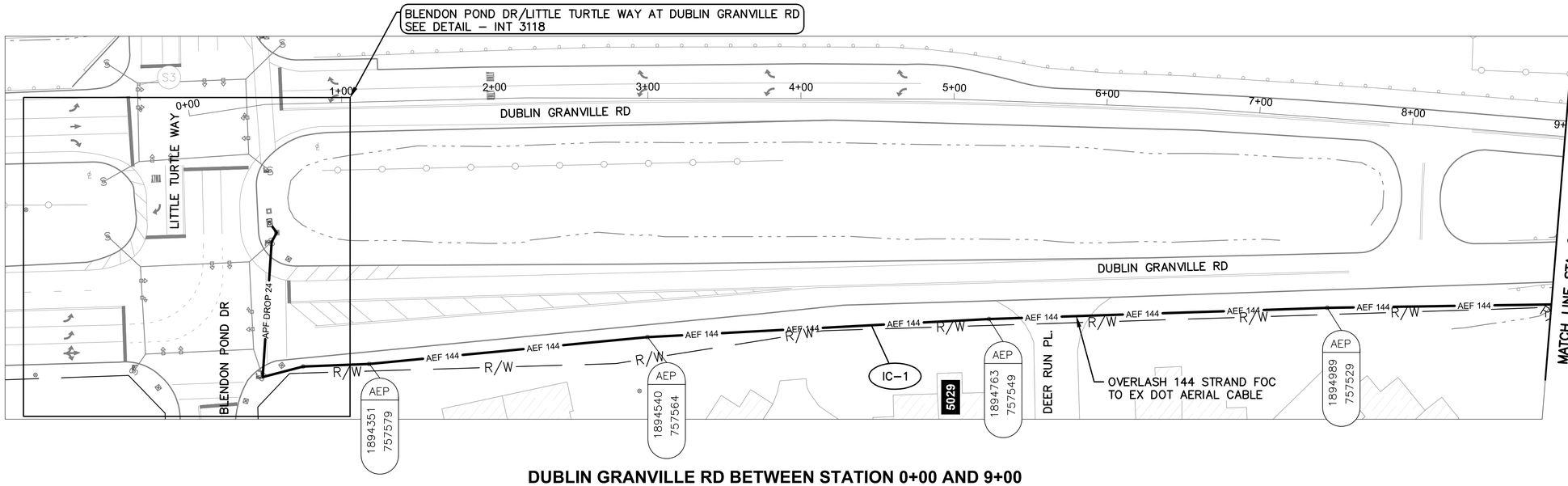
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PID NUMBER: 99733

HAMILTON RD BETWEEN STA. 755+00 & 846+00
INTS 3262, 3240, 3247, SPLICE-01

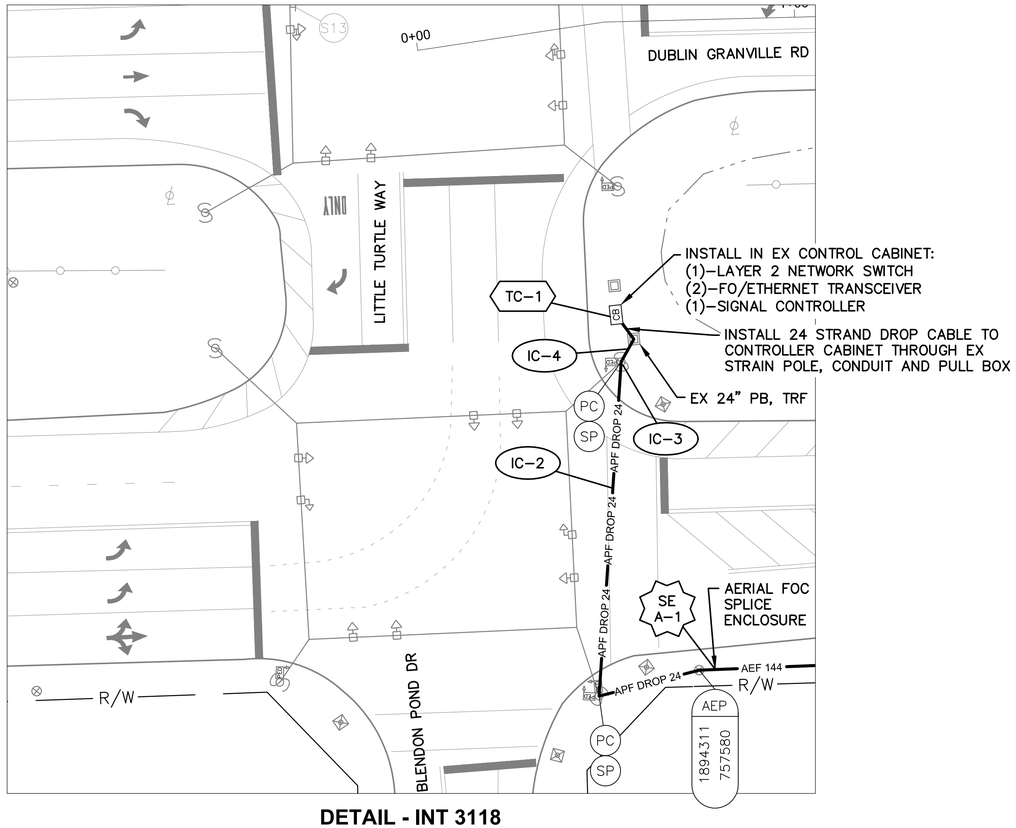
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

278
915

J:\Jobs\6372I CTSS Phase E\TECHPROD\Sheets\CTSS_PhE_Trunk2_HAMILTON_JC_QUANTITIES.dwg – HAMILTON RD-03 layout ~ last saved by: gburch 09/11/2018 09:07am ~ printed 09/18/2018 10:00am PSLTS: 1 LTS: 1 CAS: 1:1



DUBLIN GRANVILLE RD BETWEEN STATION 0+00 AND 9+00



DETAIL - INT 3118

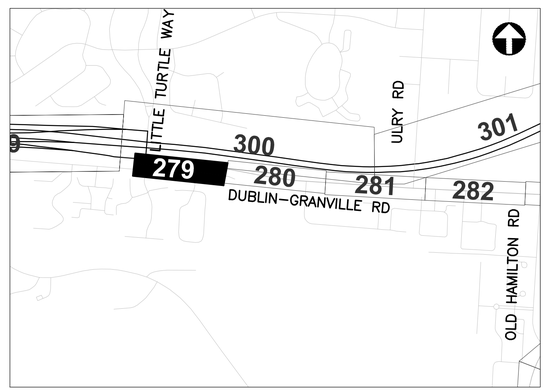
0 20 40
HORIZONTAL
SCALE IN FEET

NOTES:

1. SEE SHEET 286 FOR QUANTITIES.
2. SEE SHEETS 626 & 807 FOR COMMUNICATION DETAILS.
3. LIMITED ACCESS RIGHT OF WAY IS LOCATED OUTSIDE OF THE EXTENT OF VIEW SHOWN ABOVE.

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CITY OF COLUMBUS UTILITY LEGEND
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- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 8 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

3378-E

0 40 80
HORIZONTAL
SCALE IN FEET

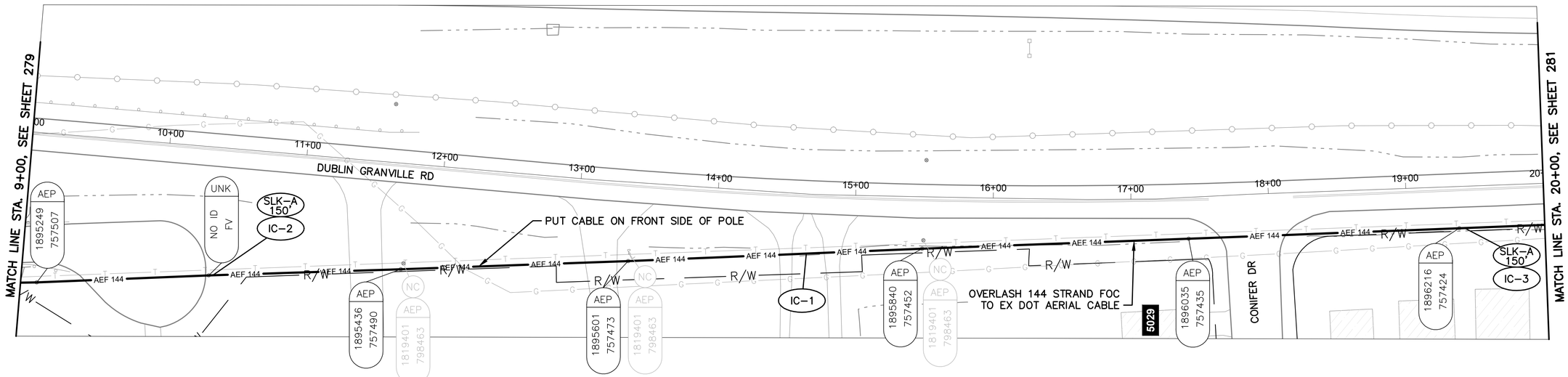
CIP: 540007–100012
PID NUMBER: 99733

INTERCONNECT PLAN
DUBLIN GRANVILLE RD BETWEEN STA. 0+00 AND 9+00, INT 3118

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

279
915

J:\Jobs\63721 CTSS Phase E\TECHPROD\Sheets\CTSS_PhE_Trunk2_E_DUBLIN_GRANVILLE_INTERCONNECT.dwg – DUBLIN–GRANVILLE–1 layout ~ last saved by: gburch 09/13/2018 03:56pm ~ printed 09/13/2018 05:26pm PSLTS: 1 LTS: 1 CAS: 1:1



DUBLIN GRANVILLE RD BETWEEN STATION 9+00 AND 20+00

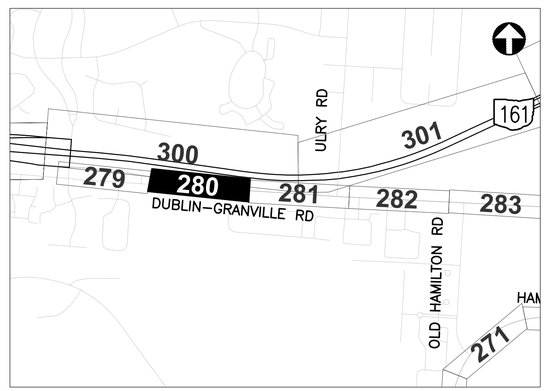
NOTES:

1. SEE SHEET 286 FOR QUANTITIES.
2. SEE SHEET 626 FOR COMMUNICATION DETAILS.
3. LIMITED ACCESS RIGHT OF WAY IS LOCATED OUTSIDE OF THE EXTENT OF VIEW SHOWN ABOVE.

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CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 8 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

HORIZONTAL SCALE IN FEET
0 40 80

CIP: 540007-100012
PID NUMBER: 99733

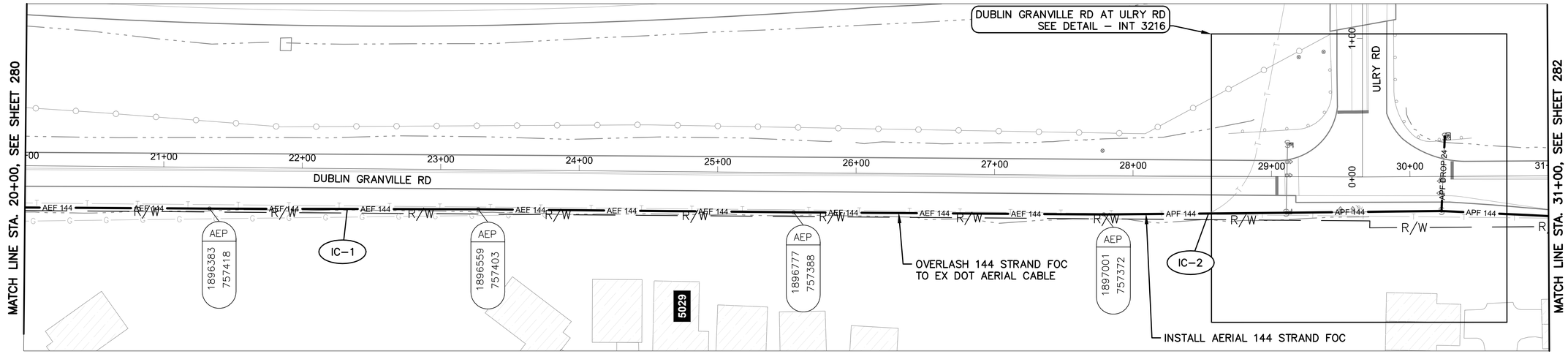
INTERCONNECT PLAN
DUBLIN GRANVILLE RD BETWEEN STA. 9+00 AND 20+00

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

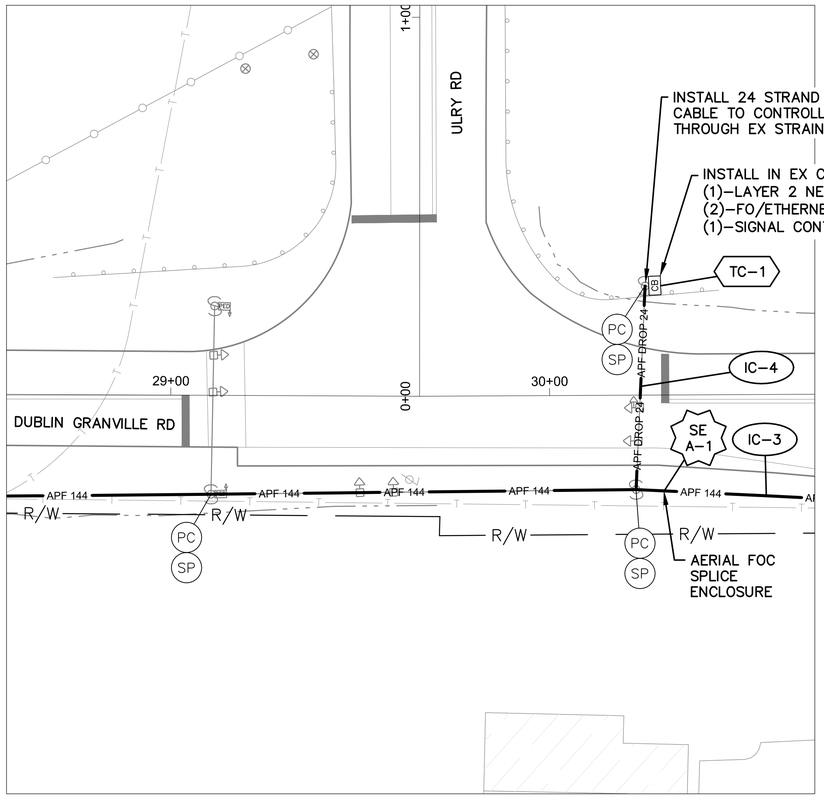
3378-E

280
915

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DUBLIN GRANVILLE RD BETWEEN STATION 20+00 AND 31+00



DETAIL - INT 3216

0 20 40

HORIZONTAL
SCALE IN FEET

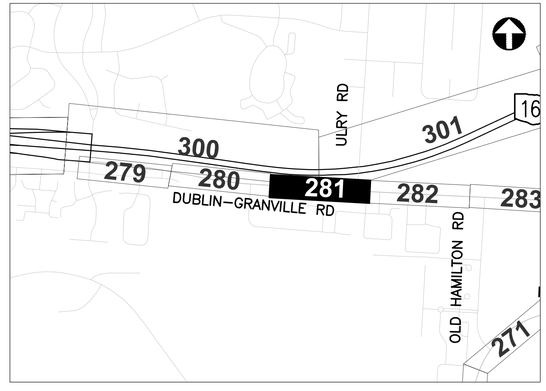
NOTES:

1. SEE SHEET 286 FOR QUANTITIES.
2. SEE SHEETS 626 & 806 FOR COMMUNICATION DETAILS.
3. LIMITED ACCESS RIGHT OF WAY IS LOCATED OUTSIDE OF THE EXTENT OF VIEW SHOWN ABOVE.

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CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 8 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

0 40 80

HORIZONTAL
SCALE IN FEET

CIP: 540007–100012
PID NUMBER: 99733

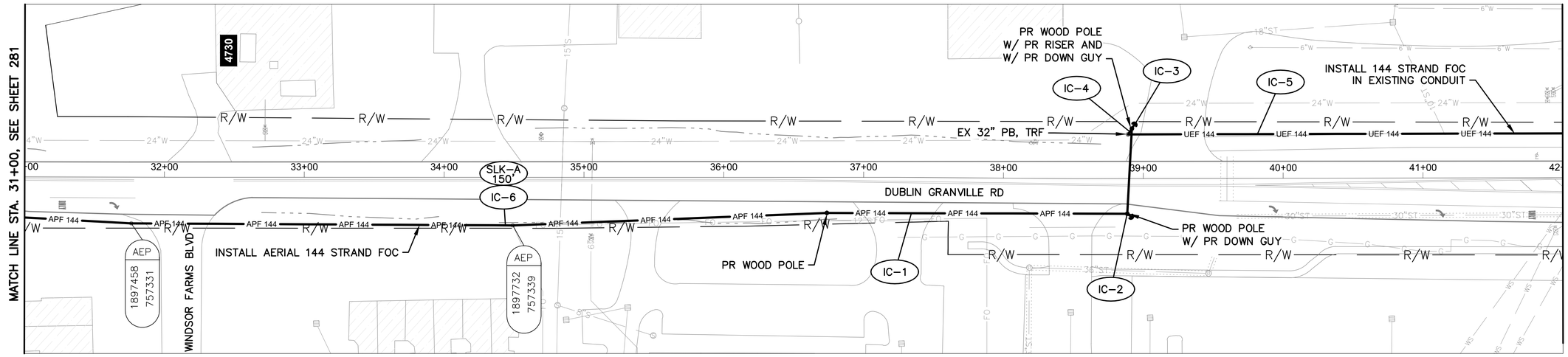
INTERCONNECT PLAN
DUBLIN GRANVILLE RD BETWEEN STA. 20+00 AND 31+00, INT 3216

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

281
915

3378-E

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DUBLIN GRANVILLE RD BETWEEN STATION 31+00 AND 42+00

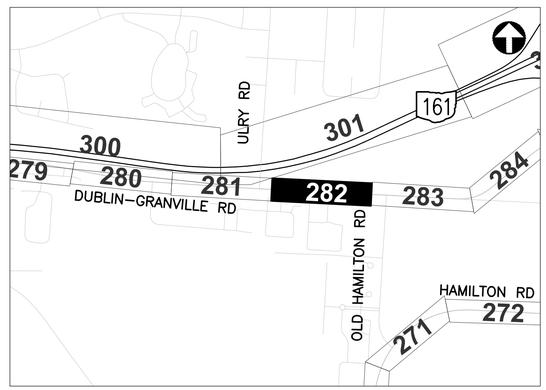
NOTES:

1. SEE SHEET 286 FOR QUANTITIES.
2. SEE SHEET 626 FOR COMMUNICATION DETAILS.
3. LIMITED ACCESS RIGHT OF WAY IS LOCATED OUTSIDE OF THE EXTENT OF VIEW SHOWN ABOVE.

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CITY OF COLUMBUS UTILITY LEGEND

- ☒ SEWER
- ☒ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 8 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

HORIZONTAL SCALE IN FEET
0 40 80

CIP: 540007-100012
PID NUMBER: 99733

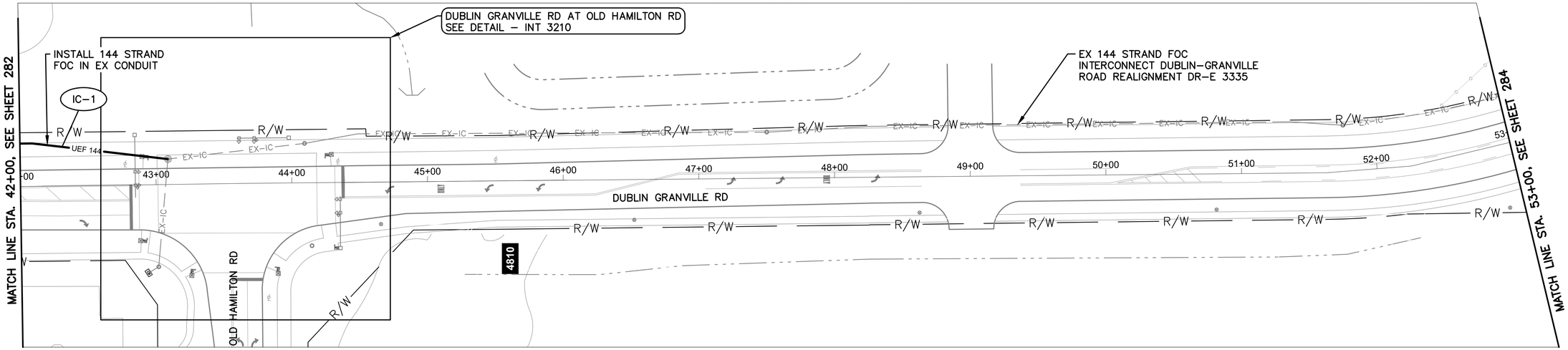
INTERCONNECT PLAN
DUBLIN GRANVILLE RD BETWEEN STA. 31+00 AND 42+00

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

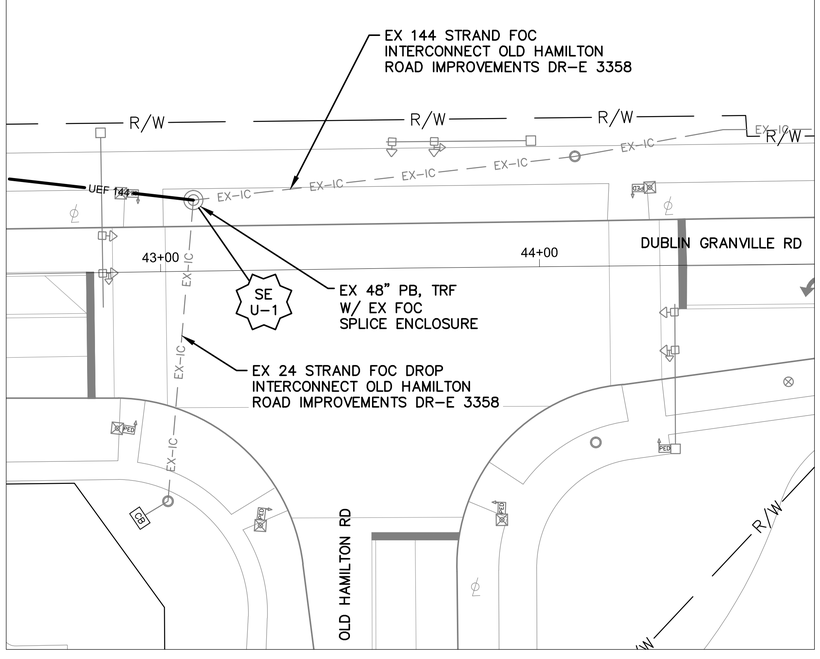
282
915

3378-E

J:\Jobs\63721 ctss phase e\TECHPROD\Sheets\CTSS_PhE_Trunk2_E_DUBLIN_GRANVILLE_INTERCONNECT.dwg – DUBLIN-GRANVILLE-4 layout ~ last saved by: gburch 09/04/2018 03:42pm ~ printed 09/11/2018 10:54pm PSLTS: 1 LTS: 1 CAS: 1:1



DUBLIN GRANVILLE RD BETWEEN STATION 42+00 AND 53+00



DETAIL - INT 3210

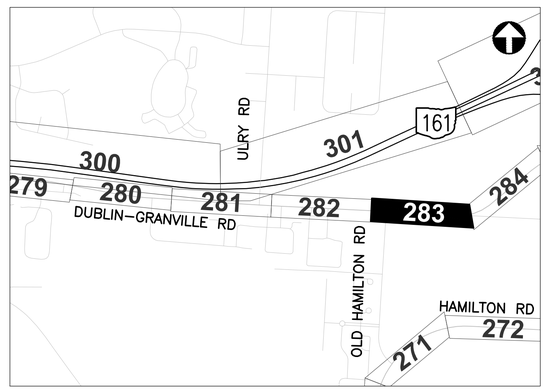
0 20 40
HORIZONTAL
SCALE IN FEET

NOTES:

1. SEE SHEET 286 FOR QUANTITIES.
2. SEE SHEETS 626 & 805 FOR COMMUNICATION DETAILS.
3. RETURN CELLULAR ETHERNET MODEM TO CITY OF COLUMBUS.

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CITY OF COLUMBUS UTILITY LEGEND
- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 8 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

0 40 80
HORIZONTAL
SCALE IN FEET

CIP: 540007–100012
PID NUMBER: 99733

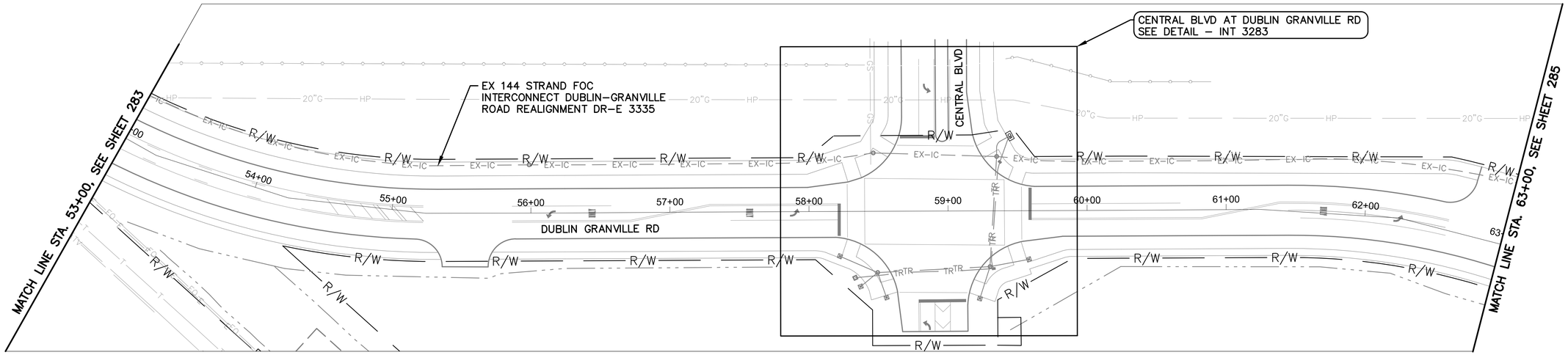
INTERCONNECT PLAN
DUBLIN GRANVILLE RD BETWEEN STA. 42+00 AND 53+00, INT 3210

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

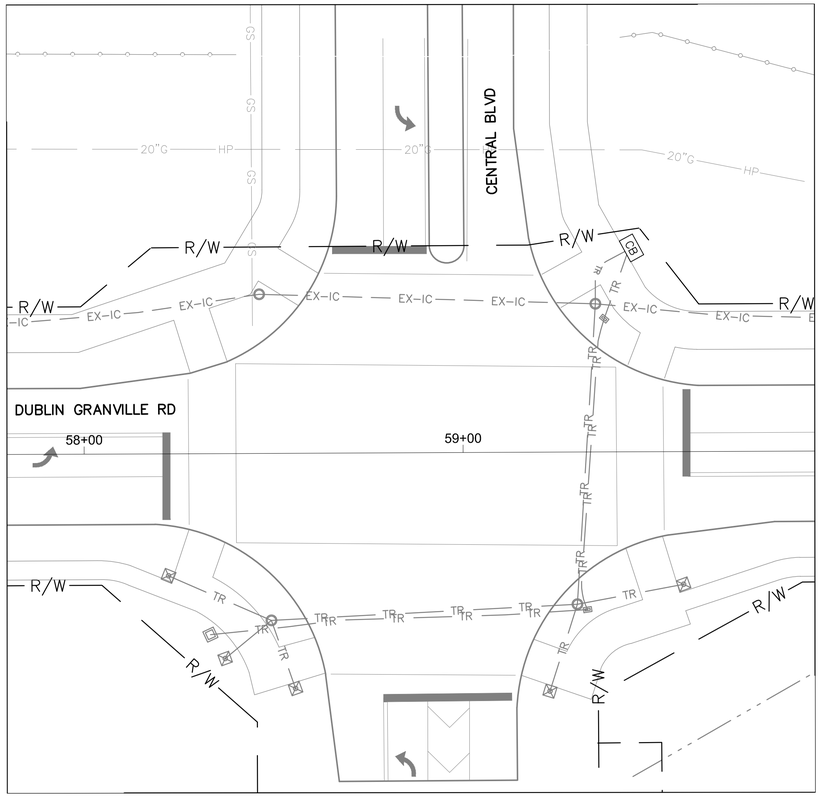
283
915

3378-E

J:\Jobs\63721 ctss phase e\TECHPROD\Sheets\CTSS_PhE_Trunk2_E_DUBLIN_GRANVILLE_INTERCONNECT.dwg – DUBLIN–GRANVILLE–5 layout ~ last saved by: gburch 09/04/2018 03:42pm ~ printed 09/11/2018 10:56pm PSLTS: 1 LTS: 1 CAS: 1:1



DUBLIN GRANVILLE RD BETWEEN STATION 53+00 AND 63+00



DETAIL - INT 3283

0 20 40
HORIZONTAL
SCALE IN FEET

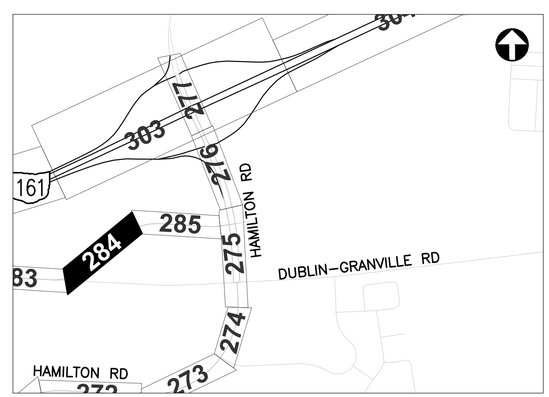
NOTES:

1. NO WORK PERFORMED ON THIS SHEET. FOR REFERENCE ONLY.
2. SEE SHEETS 626 & 802 FOR COMMUNICATION DETAILS.
3. RETURN CELLULAR ETHERNET MODEM TO CITY OF COLUMBUS.

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CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 8 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

0 40 80
HORIZONTAL
SCALE IN FEET

CIP: 540007–100012
PID NUMBER: 99733

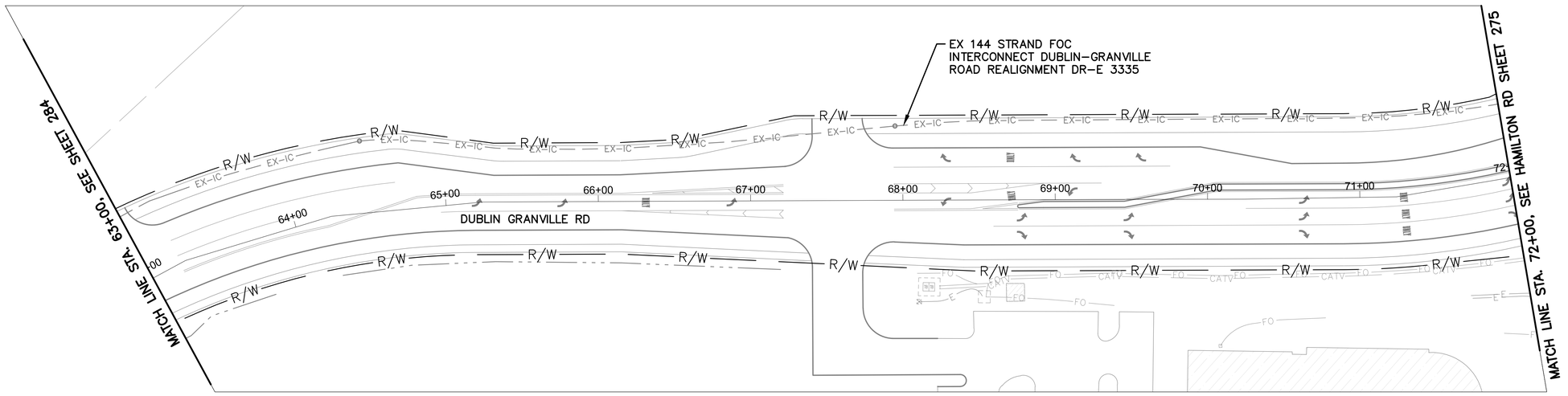
INTERCONNECT PLAN
DUBLIN GRANVILLE RD BETWEEN STA. 53+00 AND 63+00, INT 3283

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

284
915

3378-E

J:\Jobs\63721 ctss phase e\TECHPROD\Sheets\CTSS_PhE_Trunk2_E_DUBLIN_GRANVILLE_INTERCONNECT.dwg – DUBLIN–GRANVILLE–6 layout ~ last saved by: gburch 09/04/2018 03:42pm ~ printed 09/11/2018 10:58am PSLTS: 1 LTS: 1 CAS: 1:1



DUBLIN GRANVILLE RD BETWEEN STATION 63+00 AND 72+00

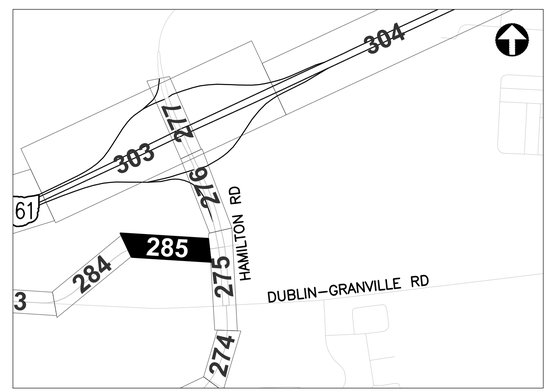
NOTES:

1. NO WORK PERFORMED ON THIS SHEET. FOR REFERENCE ONLY.
2. SEE SHEET 626 FOR COMMUNICATION DETAILS.

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CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 8 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

3378-E

HORIZONTAL SCALE IN FEET
0 40 80

CIP: 540007–100012
PID NUMBER: 99733

INTERCONNECT PLAN
DUBLIN GRANVILLE RD BETWEEN STA. 64+00 AND 72+00

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

285
915

J:\Jobs\63721 ctss phase e\TECHPROD\Sheets\CTSS_PhE_Trunk2_E_DUBLIN_GRANVILLE_INTERCONNECT.dwg – DUBLIN–GRANVILLE–7 layout ~ last saved by: gburch 09/04/2018 03:42pm ~ printed 09/11/2018 11:00pm PSLTS: 1 LTS: 1 CAS: 1:1

ESTIMATED QUANTITIES

SHEET NO.	REFERENCE NO.	LOCATION	STATION		202	625	625	632	632	632	632	632	632	632	632	632	633	633	633				
					EXISTING CONDUIT CLEANED, AS PER PLAN	CONDUIT, CONCRETE ENCASED, 2-3", 725.05, AS PER PLAN	TRENCH, 36" DEEP, AS PER PLAN	CONDUIT RISER, 2", 725.04, AS PER PLAN	DOWN GUY	INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 144 STRAND	INTERCONNECT CABLE, MISC.: FIBER OPTIC DROP CABLE, 24 STRAND	INTERCONNECT CABLE, MISC.: FIBER OPTIC FUSION SPLICE	INTERCONNECT CABLE, MISC.: OVERLASH TO EXISTING INTERCONNECT	INTERCONNECT CABLE, MISC.: TERMINATION PANEL, 24 FIBER	INTERCONNECT, MISC.: SPLICE ENCLOSURE, CLAMSHELL, 288 SPLICE	MESSENGER WIRE, 7 STRAND, 1/4" DIAMETER WITH ACCESSORIES, AS PER PLAN	WOOD POLE, CLASS 5, 35 FT	CONTROLLER ITEM, MISC.: FIBER OPTIC ETHERNET TRANSCEIVER, SHORT RANGE	CONTROLLER ITEM, MISC.: LAYER 2 ETHERNET SWITCH	CONTROLLER UNIT, TYPE TS2/A2, AS PER PLAN				
			FROM	TO	FT	FT	FT	EACH	EACH	FT	FT	EACH	FT	EACH	EACH	FT	EACH	EACH	EACH	EACH				
DUBLIN GRANVILLE RD. BETWEEN STA. 0+00 AND 9+00, INT 3118																							
279	IC-3	DUBLIN-GRANVILLE RD	0+40, 89' RT								35												
279	IC-4	DUBLIN-GRANVILLE RD	0+40, 89' RT	0+41, 77' RT	15						15												
279	IC-2	DUBLIN-GRANVILLE RD	0+40, 89' RT	0+70, 172' RT							118					118							
279	TC-1	DUBLIN-GRANVILLE RD	0+41, 77' RT								10				1				2	1	1		
279	SE A-1	DUBLIN-GRANVILLE RD	0+70, 172' RT							75	125	12			1								
279	IC-1	DUBLIN-GRANVILLE RD	0+70, 172' RT	9+00, 110' RT						832			832										
DUBLIN GRANVILLE RD. BETWEEN STA. 9+00 AND 20+00																							
280	IC-1	DUBLIN-GRANVILLE RD	9+00, 110' RT	20+00, 30' RT						1,126			1,126										
280	IC-2	DUBLIN-GRANVILLE RD	10+39, 93' RT							150													
280	IC-3	DUBLIN-GRANVILLE RD	19+41, 30' RT							150													
DUBLIN GRANVILLE RD. BETWEEN STA. 20+00 AND 31+00, INT 3216																							
281	IC-1	DUBLIN-GRANVILLE RD	20+00, 30' RT	27+79, 28' RT						791			791										
281	IC-2	DUBLIN-GRANVILLE RD	27+79, 28' RT	30+22, 25' RT						248						248							
281	IC-4	DUBLIN-GRANVILLE RD	30+22, 25' RT	30+25, 29' LT							55					55							
281	SE A-1	DUBLIN-GRANVILLE RD	30+22, 25' RT							150	125	24			1								
281	IC-3	DUBLIN-GRANVILLE RD	30+22, 25' RT	31+00, 29' RT						78						78							
281	TC-1	DUBLIN-GRANVILLE RD	30+25, 29' LT								45			1					2	1	1		
DUBLIN GRANVILLE RD. BETWEEN STA. 31+00 AND 42+00																							
282	IC-1	DUBLIN-GRANVILLE RD	31+00, 29' RT	38+92, 36' LT						863						863	1						
282	IC-6	DUBLIN-GRANVILLE RD	34+43, 34' RT							150													
282	IC-2	DUBLIN-GRANVILLE RD	38+89, 25' RT						1								1						
282	IC-4	DUBLIN-GRANVILLE RD	38+89, 32' LT	38+92, 36' LT		5	5			5													
282	IC-5	DUBLIN-GRANVILLE RD	38+89, 32' LT	42+00, 32' LT	311					311													
282	IC-3	DUBLIN-GRANVILLE RD	38+92, 36' LT					1	1	35							1						
DUBLIN GRANVILLE RD. BETWEEN STA. 42+00 AND 53+00, INT 3210																							
283	IC-1	DUBLIN-GRANVILLE RD	42+00, 32' LT	43+09, 19' LT	110					110													
283	SE U-1	DUBLIN-GRANVILLE RD	43+09, 19' LT							75	125	144											
SHEET TOTAL					436	5	5	1	2	5,149	653	180	2,749	2	2	1,362	3	4	2	2	-	-	-	-

AERIAL SAG: 1.5% AERIAL SAG IS INCLUDED IN THE QUANTITIES FOR ANY AERIAL FIBER OR CABLE ITEMS.

3378-E

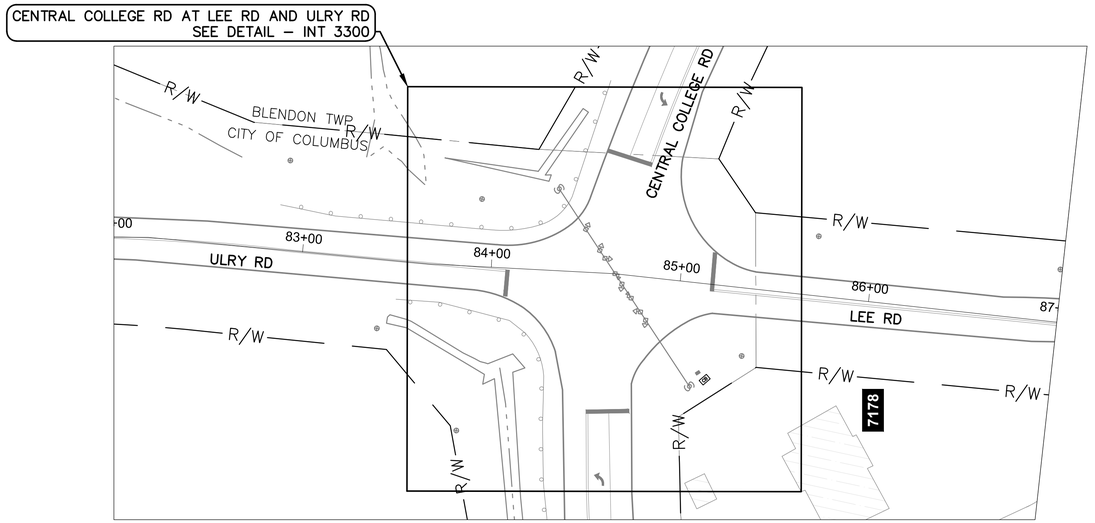
CIP: 540007-100012
PID NUMBER: 99733

DUBLIN GRANVILLE RD BETWEEN STA. 0+00 & 53+00
INTS 3118, 3216, 3210

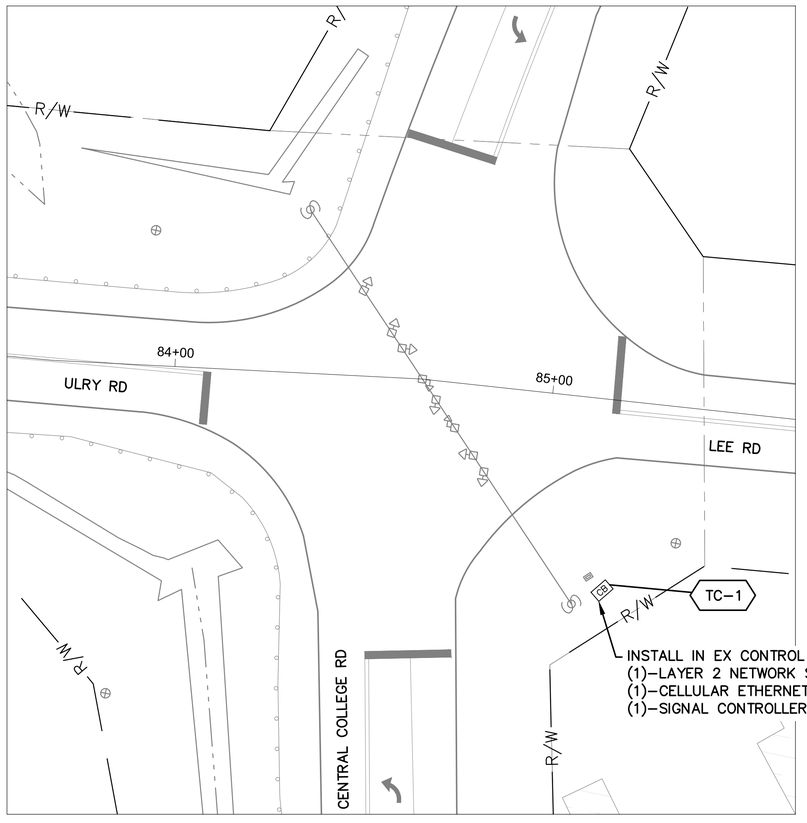
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

286
915

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ULRY RD/LEE RD BETWEEN STATION 82+00 AND 87+00



DETAIL - INT 3300

0 20 40
HORIZONTAL
SCALE IN FEET

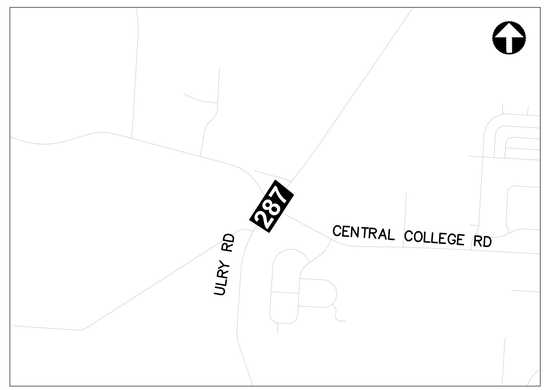
NOTES:

1. SEE SHEET 290 FOR QUANTITIES.
2. SEE SHEETS 626 & 808 FOR COMMUNICATION DETAILS.

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CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 8 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

0 40 80
HORIZONTAL
SCALE IN FEET

CIP: 540007–100012
PID NUMBER: 99733

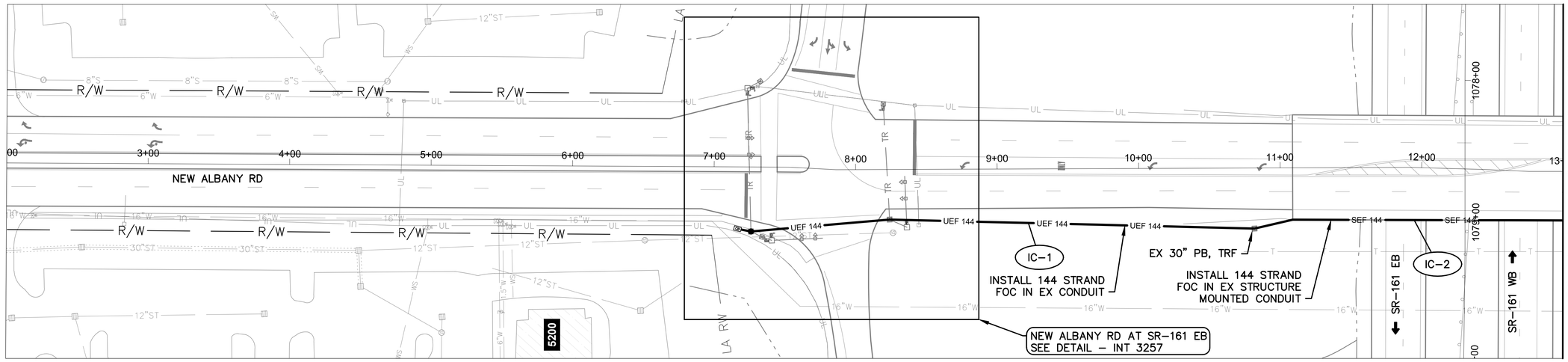
INTERCONNECT PLAN
ULRY RD/LEE RD BETWEEN STA. 82+00 AND 87+00, INT 3300

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

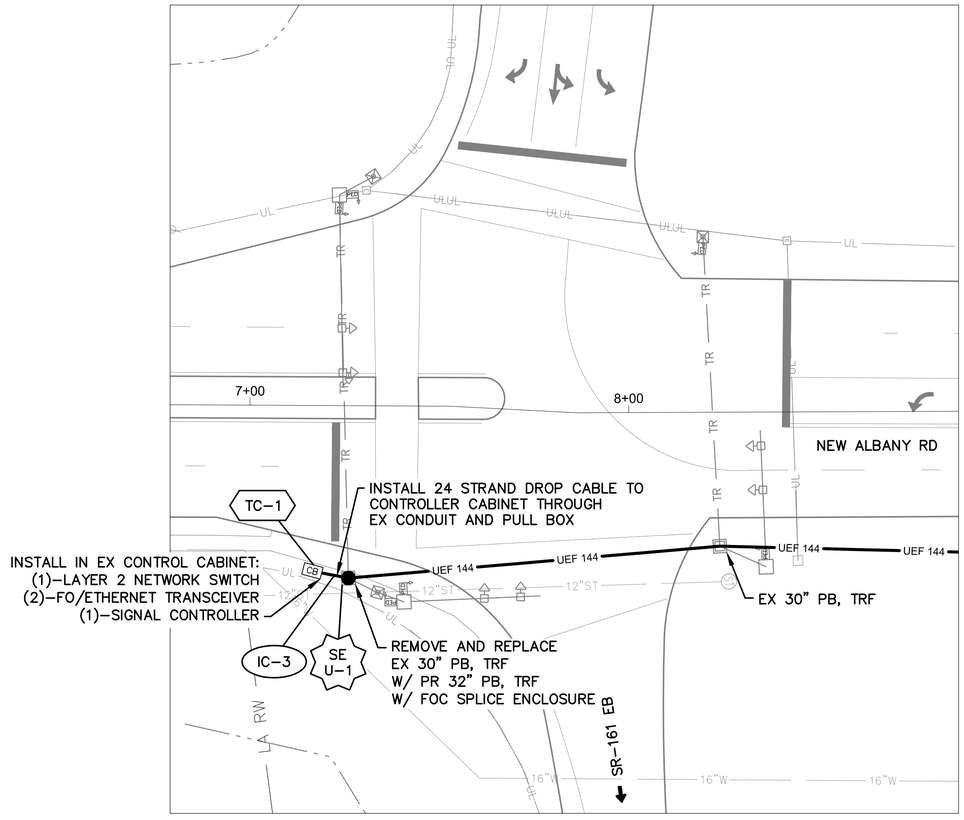
287
915

3378-E

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NEW ALBANY RD BETWEEN STATION 2+00 AND 13+00



DETAIL - INT 3257

0 20 40
HORIZONTAL
SCALE IN FEET

NOTES:

1. SEE SHEET 290 FOR QUANTITIES.
2. SEE SHEETS 627 & 817 FOR COMMUNICATION DETAILS.
3. LIMITED ACCESS RIGHT OF WAY IS LOCATED OUTSIDE OF THE EXTENT OF VIEW SHOWN ABOVE.

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CITY OF COLUMBUS UTILITY LEGEND

☒	SEWER
☒	WATER
☐	POWER
☒	LIGHTING



REFER TO SHEET 8 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

0 40 80
HORIZONTAL
SCALE IN FEET

CIP: 540007–100012
PID NUMBER: 99733

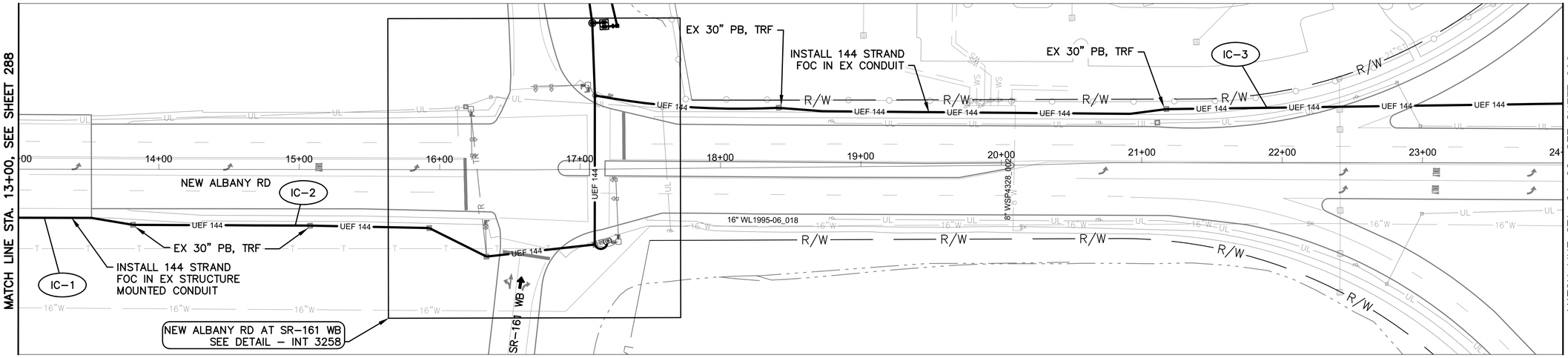
INTERCONNECT PLAN
NEW ALBANY RD BETWEEN STA. 2+00 AND 13+00, INT 3257

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

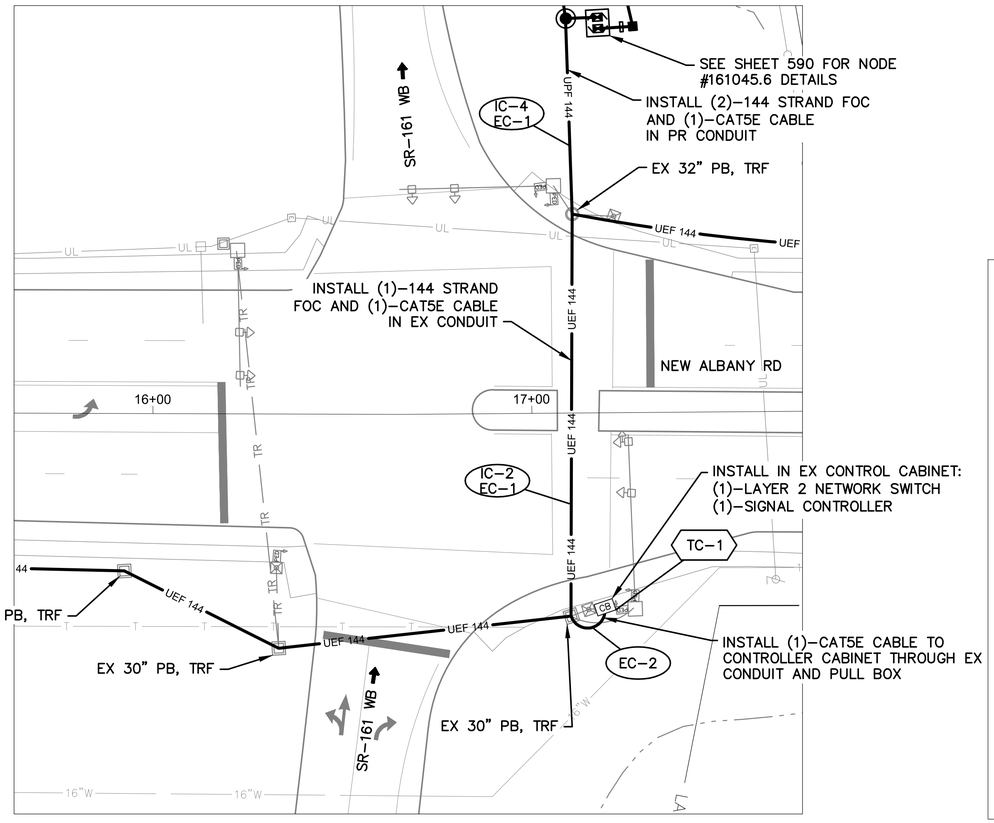
288
915

3378-E

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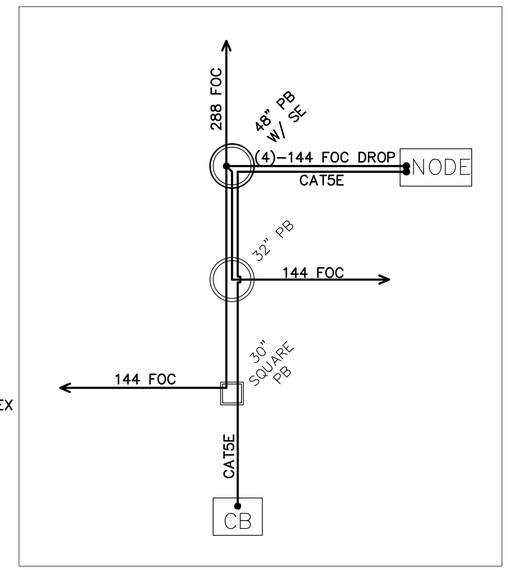
NEW ALBANY RD BETWEEN STATION 13+00 AND 24+00



DETAIL - INT 3258

0 20 40

HORIZONTAL SCALE IN FEET



CABLE SCHEMATIC - INT 3258

NOT TO SCALE

NOTES:

1. SEE SHEET 290 FOR QUANTITIES.
2. SEE SHEETS 627 & 816 FOR COMMUNICATION DETAILS.
3. SEE SHEET 590 FOR NODE DETAILS.
4. LIMITED ACCESS RIGHT OF WAY IS LOCATED OUTSIDE OF THE EXTENT OF VIEWS SHOWN ABOVE.

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CITY OF COLUMBUS UTILITY LEGEND

- ☒ SEWER
- ☒ WATER
- ☐ POWER
- ☒ LIGHTING



REFER TO SHEET 8 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

0 40 80

HORIZONTAL SCALE IN FEET

CIP: 540007-100012
PID NUMBER: 99733

INTERCONNECT PLAN
NEW ALBANY RD BETWEEN STA. 13+00 AND 24+00, INT 3258

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E - FINAL SUBMITTAL

289
915

3378-E

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ESTIMATED QUANTITIES

SHEET NO.	REFERENCE NO.	LOCATION	STATION		202	625	625	625	625	632	632	632	632	632	632	632	633	633	633					
			FROM	TO	EXISTING CONDUIT CLEANED, AS PER PLAN	CONDUIT, CONCRETE ENCASED, 2-3", 725.05, AS PER PLAN	PULL BOX, CONCRETE 32", AS PER PLAN	PULL BOX, REMOVED, AS PER PLAN	TRENCH, 36" DEEP, AS PER PLAN	INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 144 STRAND	INTERCONNECT CABLE, MISC.: FIBER OPTIC DROP CABLE, 24 STRAND	INTERCONNECT CABLE, MISC.: FIBER OPTIC FUSION SPLICE	INTERCONNECT CABLE, MISC.: TERMINATION PANEL, 24 FIBER	INTERCONNECT, MISC.: CAT 5E CABLE, OUTDOOR RATED	INTERCONNECT, MISC.: SPLICE ENCLOSURE, DOME, 144 SPLICE	SIGNALIZATION, MISC.: CELLULAR ETHERNET COMMUNICATIONS UNIT	CONTROLLER ITEM, MISC.: FIBER OPTIC ETHERNET TRANSCEIVER, SHORT RANGE	CONTROLLER ITEM, MISC.: LAYER 2 ETHERNET SWITCH	CONTROLLER UNIT, TYPE TS2/A2, AS PER PLAN					
					FT	FT	EACH	EACH	FT	FT	FT	EACH	EACH	FT	EACH	EACH	EACH	EACH	EACH					
ULRY RD. BETWEEN STA. 82+00 AND 87+00, INT 3300																								
287	TC-1	ULRY RD	85+18, 50' RT													1		1	1					
NEW ALBANY RD. BETWEEN STA. 2+00 AND 13+00, INT 3257																								
288	TC-1	NEW ALBANY RD	7+16, 44' RT								10		1				2	1	1					
288	IC-3	NEW ALBANY RD	7+16, 44' RT	7+26, 46' RT	10						10													
288	SE U-1	NEW ALBANY RD	7+26, 46' RT				1	1		75	125	12			1									
288	IC-1	NEW ALBANY RD	7+26, 46' RT	11+08, 37' RT	384					384														
288	IC-2	NEW ALBANY RD	11+08, 37' RT	13+00, 35' RT	191					191														
NEW ALBANY RD. BETWEEN STA. 13+00 AND 24+00, INT 3258																								
289	IC-1	NEW ALBANY RD	13+00, 35' RT	13+52, 35' RT	52					52														
289	IC-2	NEW ALBANY RD	13+52, 35' RT	17+11, 52' LT	470					470														
289	IC-4	NEW ALBANY RD	17+10, 104' LT	17+11, 52' LT		52			52	104														
289	EC-2	NEW ALBANY RD	17+10, 54' RT	17+18, 51' RT	14									14										
289	EC-1	NEW ALBANY RD	17+10, 54' RT	17+18, 104' LT										106										
289	IC-3	NEW ALBANY RD	17+11, 52' LT	24+00, 42' LT	690					690														
289	TC-1	NEW ALBANY RD	17+18, 51' RT											10				1	1					
SHEET TOTAL					1,811	52	1	1	52	1,966	145	12	1	130	1	1	2	3	3	-	-	-	-	-

AERIAL SAG: 1.5% AERIAL SAG IS INCLUDED IN THE QUANTITIES FOR ANY AERIAL FIBER OR CABLE ITEMS.

3378-E

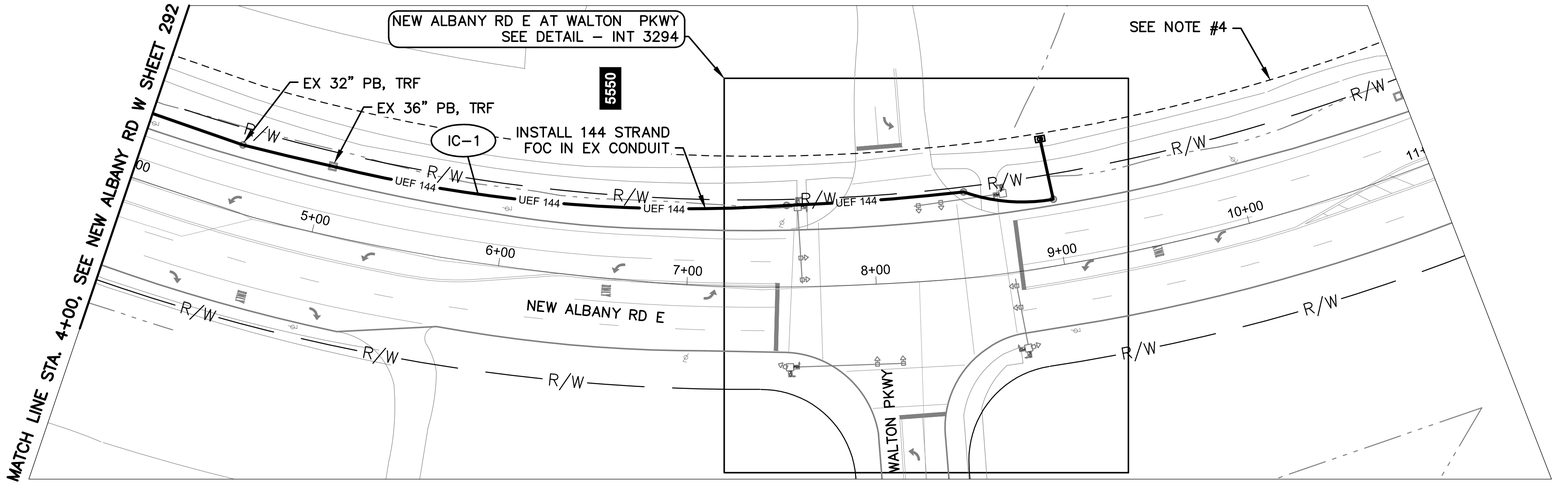
CIP: 540007-100012
PID NUMBER: 99733

ULRY RD BETWEEN STA. 82+00 & 87+00
NEW ALBANY RD BETWEEN STA. 2+00 & 24+00, INTS 3300, 3257, 3258

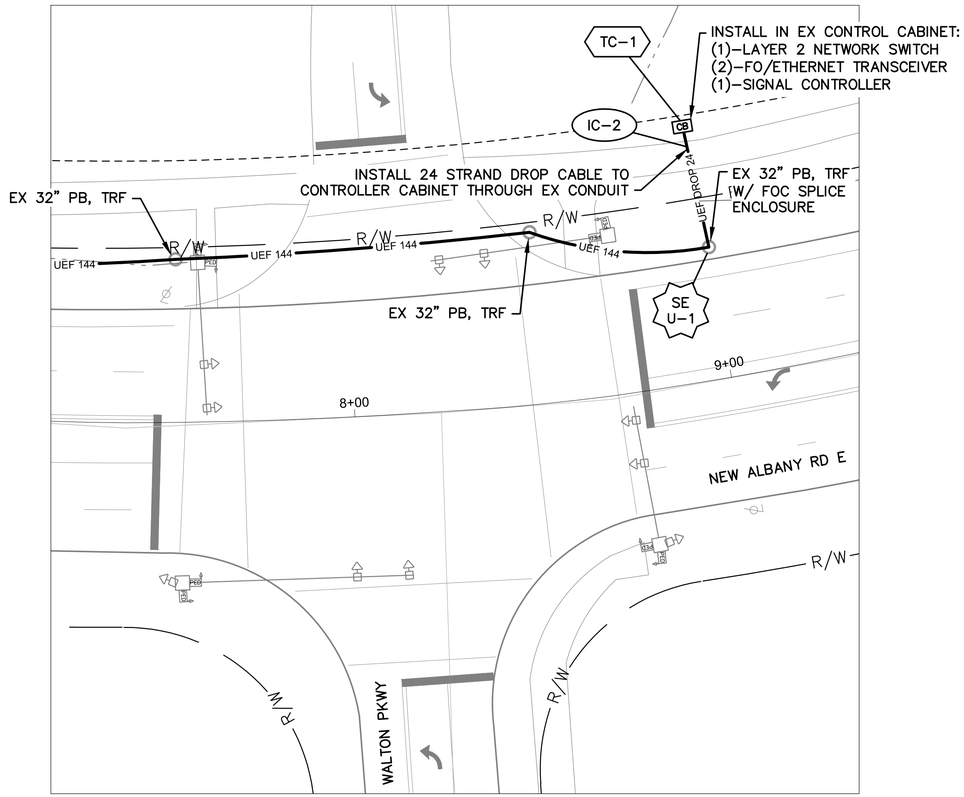
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

290
915

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NEW ALBANY RD E BETWEEN STATION 4+00 AND 11+00



DETAIL - INT 3294

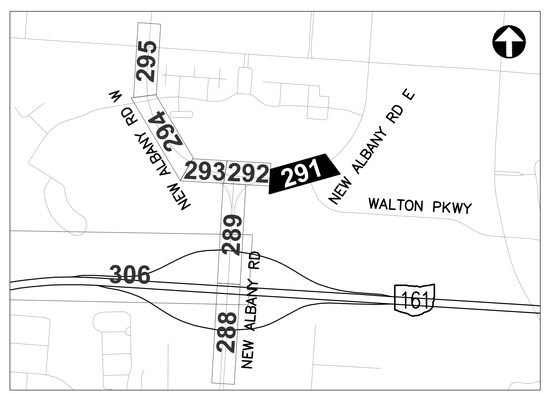
0 20 40
HORIZONTAL
SCALE IN FEET

NOTES:

1. SEE SHEET 296 FOR QUANTITIES.
2. SEE SHEETS 627 & 815 FOR COMMUNICATION DETAILS.
3. SIGNAL AGREEMENT CT–01080R IN PLACE BETWEEN CITY OF COLUMBUS AND WALTON PARKWAY/EMH&T FOR MAINTENANCE OF TRAFFIC SIGNAL AT INT 3294.
4. EXISTING EASEMENT INSTRUMENT #199910010247102 AS SHOWN PER THE NEW ALBANY ROAD EAST IMPROVEMENT PLAN E01549.

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CITY OF COLUMBUS UTILITY LEGEND
- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 8 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

0 40 80
HORIZONTAL
SCALE IN FEET

CIP: 540007–100012
PID NUMBER: 99733

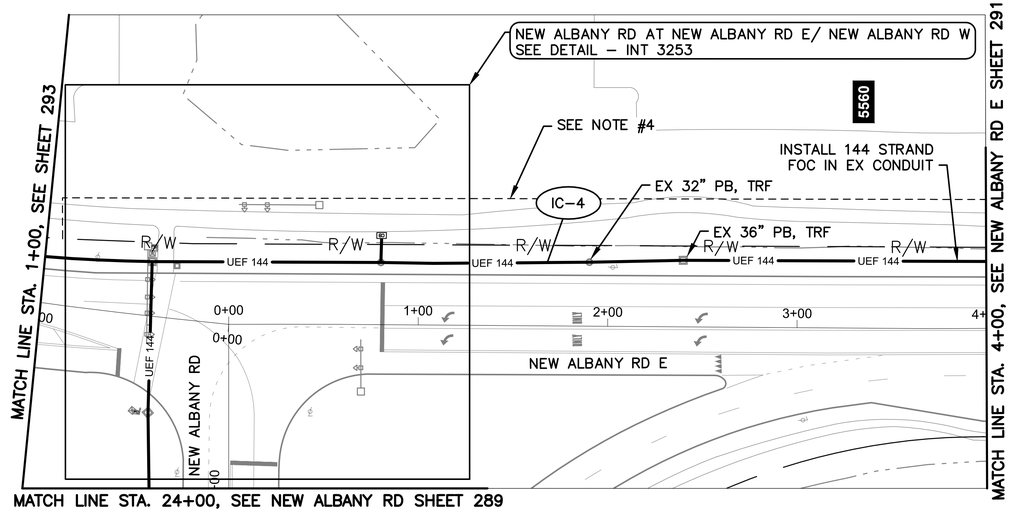
INTERCONNECT PLAN
NEW ALBANY RD E BETWEEN STA. 4+00 AND 11+00, INT 3294

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

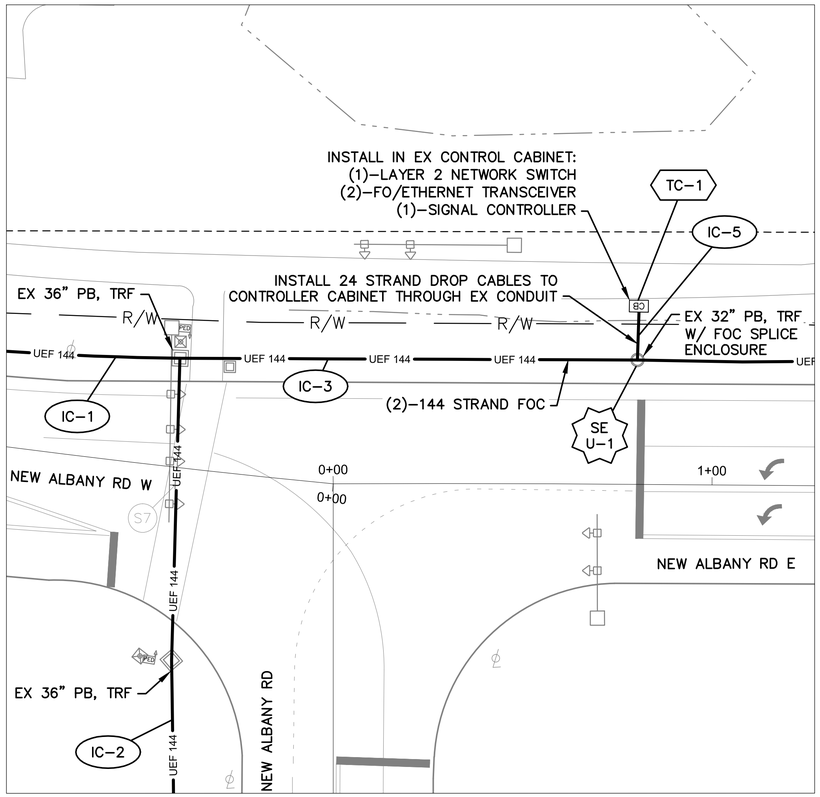
291
915

3378-E

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NEW ALBANY RD E BETWEEN STATION 1+00 AND 4+00



DETAIL - INT 3253

0 20 40
HORIZONTAL
SCALE IN FEET

CABLE SCHEMATIC - INT 3253
NOT TO SCALE

NOTES:

1. SEE SHEET 296 FOR QUANTITIES.
2. SEE SHEETS 627 & 814 FOR COMMUNICATION DETAILS.
3. RIGHT OF WAY IS LOCATED OUTSIDE OF THE EXTENT OF VIEW ABOVE.
4. EXISTING EASEMENT INSTRUMENT #199910010247102 AS SHOWN PER THE NEW ALBANY ROAD EAST IMPROVEMENT PLAN E01549.

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CITY OF COLUMBUS UTILITY LEGEND
- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 8 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

0 40 80
HORIZONTAL
SCALE IN FEET

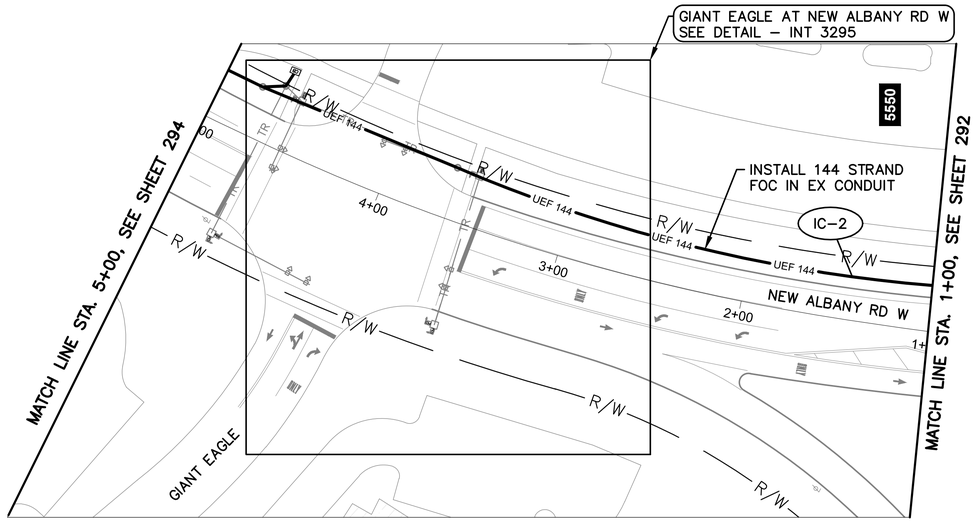
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PID NUMBER: 99733

INTERCONNECT PLAN
NEW ALBANY RD E BETWEEN STA. 1+00 AND 4+00, INT 3253

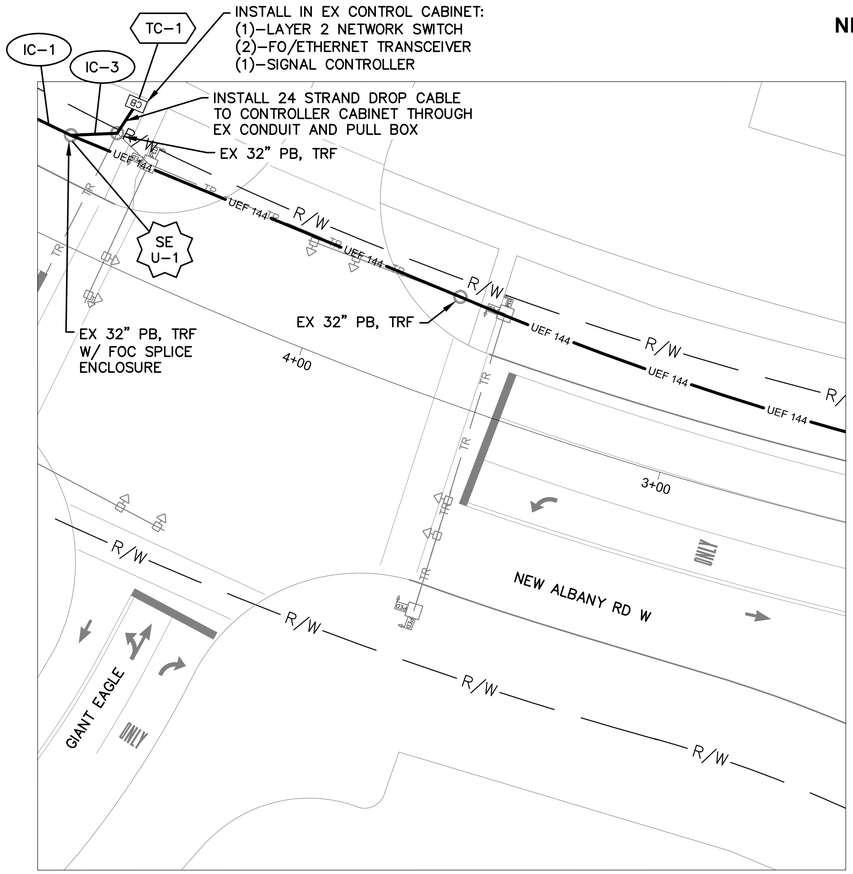
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

3378-E

J:\Jobs\63721 CTSS Phase E\TECHPROD\Sheets\CTSS_PhE_Trunk2_NEW_ALBANY_W_INTERCONNECT.dwg – NEW-ALBANY-W-1 layout ~ last saved by: gburch 09/13/2018 04:01pm ~ printed 09/13/2018 05:33pm PSLTS: 1 LTS: 1 CAS: 1:1



NEW ALBANY RD W BETWEEN STATION 1+00 AND 5+00



DETAIL - INT 3295

0 20 40
HORIZONTAL
SCALE IN FEET

NOTES:

1. SEE SHEET 296 FOR QUANTITIES.
2. SEE SHEETS 627 & 813 FOR COMMUNICATION DETAILS.
3. SIGNAL AGREEMENTS CT–01119R AND CT–01121R IN PLACE BETWEEN CITY OF COLUMBUS, WISHBONE PARTNERS AND EMH&T/NEW ALBANY MARKET FOR MAINTENANCE OF TRAFFIC SIGNAL AT INT 3295.

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CITY OF COLUMBUS
UTILITY LEGEND
- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 8 FOR
INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

0 40 80
HORIZONTAL
SCALE IN FEET

CIP: 540007–100012
PID NUMBER: 99733

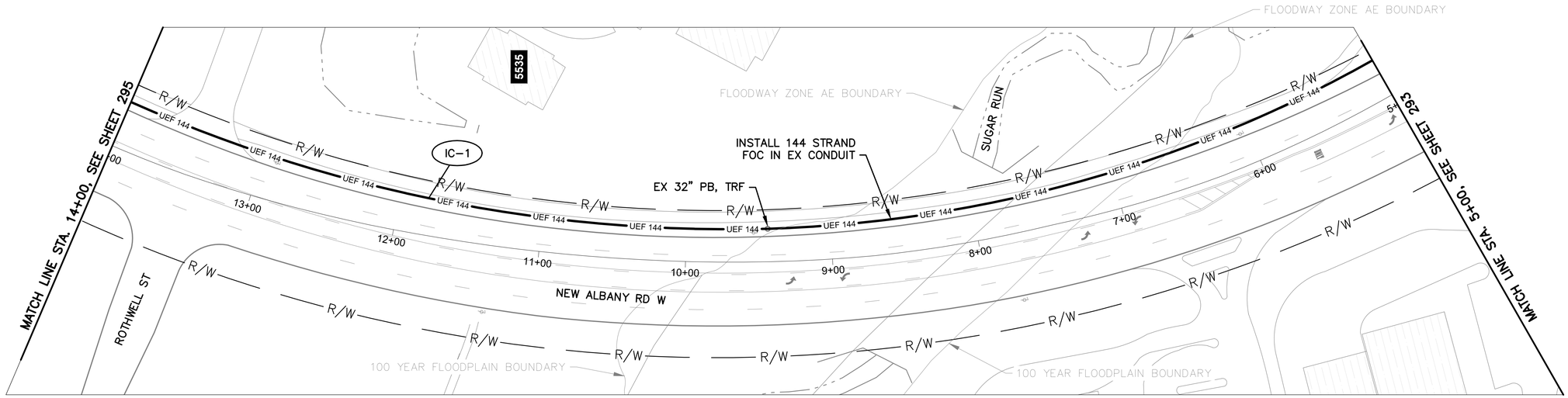
INTERCONNECT PLAN
NEW ALBANY RD W BETWEEN STA. 1+00 AND 5+00, INT 3295

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

293
915

3378-E

J:\Jobs\63721 CTSS Phase E\TECHPROD\Sheets\CTSS_PhE_Trunk2_NEW_ALBANY_W_INTERCONNECT.dwg – NEW–ALBANY–W–2 layout ~ last saved by gburch 09/13/2018 04:01pm ~ printed 09/13/2018 05:34pm PSLTS: 1 LTS: 1 CAS: 1:1



NEW ALBANY RD W BETWEEN STATION 5+00 AND 14+00

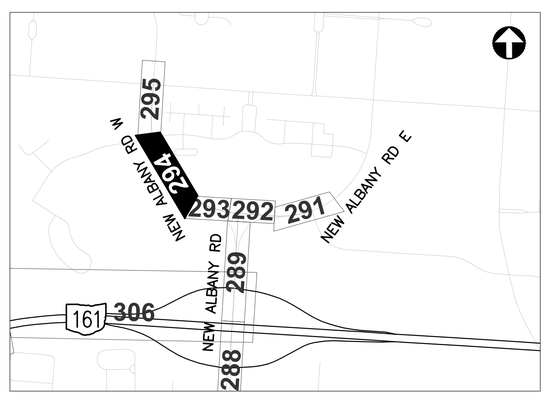
NOTES:

1. SEE SHEET 296 FOR QUANTITIES.
2. SEE SHEET 627 FOR COMMUNICATION DETAILS.

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CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 8 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

3378-E

HORIZONTAL SCALE IN FEET
0 40 80

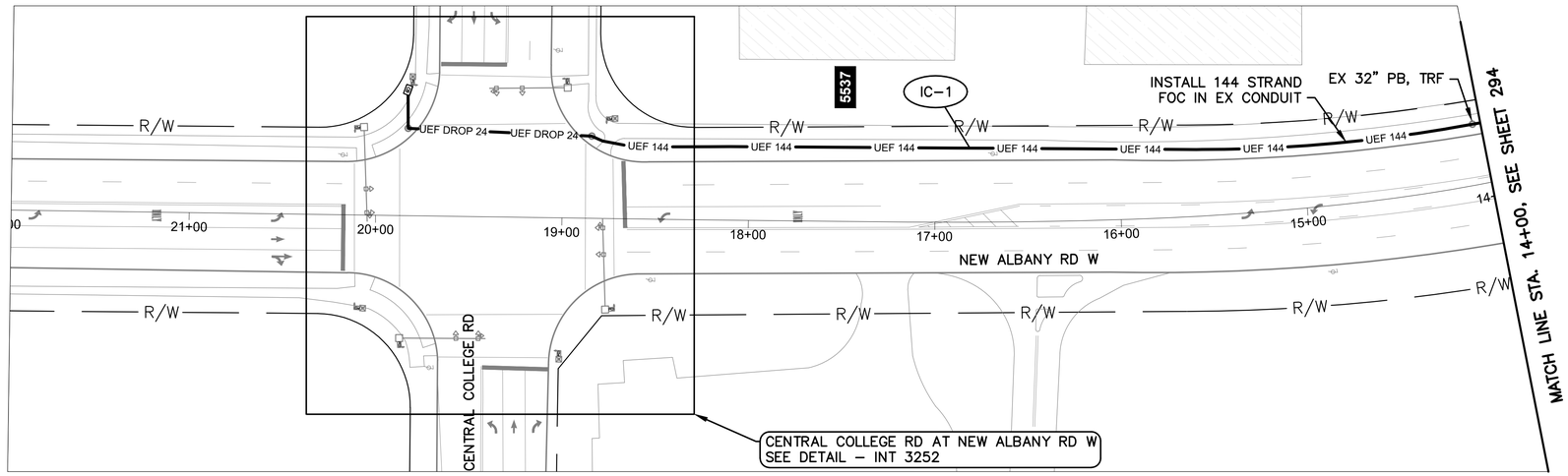
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PID NUMBER: 99733

INTERCONNECT PLAN
NEW ALBANY RD W BETWEEN STA. 5+00 AND 14+00

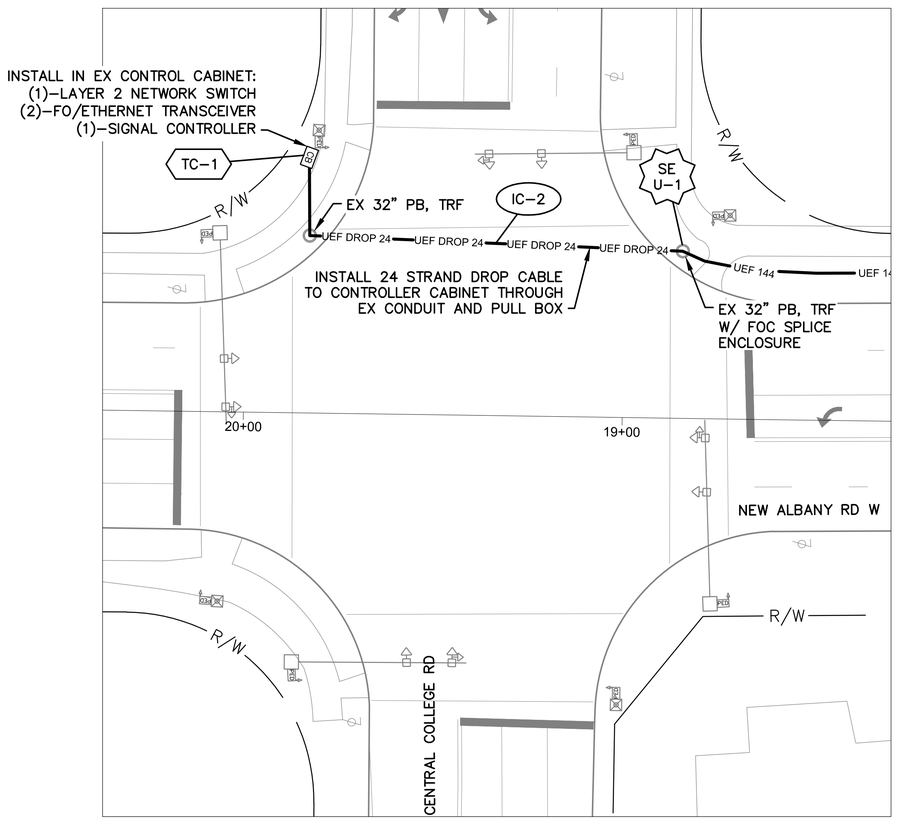
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

294
915

J:\Jobs\63721 ctss phase e\TECHPROD\Sheets\CTSS_PhE_Trunk2_NEW_ALBANY_W_INTERCONNECT.dwg – NEW-ALBANY-W-3 layout ~ last saved by: gburch 06/18/2018 02:43pm ~ printed 08/11/2018 11:15pm PSLTS: 1 LTS: 1 CAS: 1:1



NEW ALBANY RD W BETWEEN STATION 14+00 AND 22+00



DETAIL - INT 3252

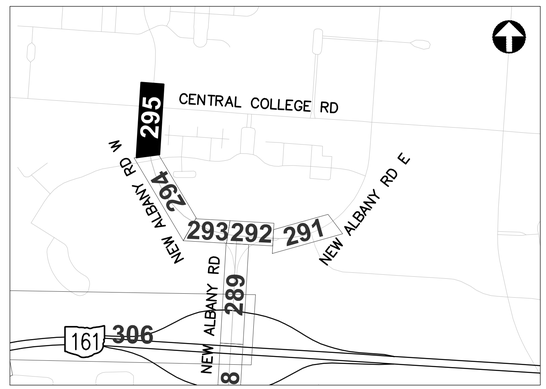
0 20 40
HORIZONTAL SCALE IN FEET

NOTES:

1. SEE SHEET 296 FOR QUANTITIES.
2. SEE SHEETS 627 & 812 FOR COMMUNICATION DETAILS.

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CITY OF COLUMBUS UTILITY LEGEND
- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 8 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

0 40 80
HORIZONTAL SCALE IN FEET

CIP: 540007-100012
PID NUMBER: 99733

INTERCONNECT PLAN
NEW ALBANY RD W BETWEEN STA. 14+00 AND 22+00, INT 3252

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

295
915

3378-E

d:\jobs\63721 ctss phase e\TECHPROD\Sheets\CTSS_PhE_Trunk2_NEW_ALBANY_W_INTERCONNECT.dwg – NEW-ALBANY-W-4 layout ~ last saved by: gburch 06/18/2018 02:43pm ~ printed 09/11/2018 11:16pm PSLTS: 1 LTS: 1 CAS: 1:1

ESTIMATED QUANTITIES

SHEET NO.	REFERENCE NO.	LOCATION	STATION		202	632	632	632	632	632	633	633	633												
					EXISTING CONDUIT CLEANED, AS PER PLAN	INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 144 STRAND	INTERCONNECT CABLE, MISC.: FIBER OPTIC DROP CABLE, 24 STRAND	INTERCONNECT CABLE, MISC.: FIBER OPTIC FUSION SPLICE	INTERCONNECT CABLE, MISC.: TERMINATION PANEL, 24 FIBER	INTERCONNECT, MISC.: SPLICE ENCLOSURE, CLAMSHELL, 288 SPLICE	CONTROLLER ITEM, MISC.: FIBER OPTIC ETHERNET TRANSCEIVER, SHORT RANGE	CONTROLLER ITEM, MISC.: LAYER 2 ETHERNET SWITCH	CONTROLLER UNIT, TYPE TS2/A2, AS PER PLAN										
			FROM	TO	FT	FT	FT	EACH	EACH	EACH	EACH	EACH	EACH											
NEW ALBANY RD. E. BETWEEN STA. 4+00 AND 11+00, INT 3294																									
291	IC-1	NEW ALBANY RD EAST	4+00, 35' LT	9+00, 35' LT	482	482																			
291	TC-1	NEW ALBANY RD EAST	8+98, 67' LT				10		1		2	1	1												
291	IC-2	NEW ALBANY RD EAST	8+98, 67' LT	9+00, 35' LT	33		33																		
291	SE U-1	NEW ALBANY RD EAST	9+00, 35' LT			75	125	12		1															
NEW ALBANY RD. E. BETWEEN STA. 1+00 AND 4+00, INT 3253																									
292	IC-1	NEW ALBANY RD WEST/NEW ALBANY RD EAST	1+00, 24' RT	0+80, 33' LT	177	177																			
292	IC-2	NEW ALBANY RD WEST	0+32, 90' LT	0+43, 29' RT	120	120																			
292	IC-3	NEW ALBANY RD WEST/NEW ALBANY RD EAST	0+43, 29' RT	0+80, 33' LT		121																			
292	SE U-1	NEW ALBANY RD EAST	0+80, 33' LT			225	250	228		1															
292	IC-4	NEW ALBANY RD EAST	0+80, 33' LT	4+00, 35' LT	320	320																			
292	IC-5	NEW ALBANY RD EAST	0+80, 33' LT	0+80, 51' LT	14		28																		
292	TC-1	NEW ALBANY RD EAST	0+80, 51' LT				20		2		2	1	1												
NEW ALBANY RD. W. BETWEEN STA. 1+00 AND 5+00, INT 3295																									
293	IC-2	NEW ALBANY RD WEST	1+00, 24' RT	4+79, 27' RT	371	371																			
293	TC-1	NEW ALBANY RD WEST	4+67, 42' RT				10		1		2	1	1												
293	IC-3	NEW ALBANY RD WEST	4+67, 42' RT	4+79, 27' RT	21		21																		
293	SE U-1	NEW ALBANY RD WEST	4+79, 27' RT			150	125	24		1															
293	IC-1	NEW ALBANY RD WEST	4+79, 27' RT	5+00, 27' RT	20	20																			
NEW ALBANY RD. W. BETWEEN STA. 5+00 AND 14+00																									
294	IC-1	NEW ALBANY RD WEST	5+00, 27' RT	14+00, 32' RT	876	876																			
NEW ALBANY RD. W. BETWEEN STA. 14+00 AND 22+00, INT 3252																									
295	IC-1	NEW ALBANY RD WEST	14+00, 32' RT	18+84, 44' RT	478	478																			
295	SE U-1	NEW ALBANY RD WEST	18+84, 44' RT			75	125	12		1															
295	IC-2	NEW ALBANY RD WEST	18+84, 44' RT	19+83, 67' RT	119		119																		
295	TC-1	NEW ALBANY RD WEST	19+83, 67' RT				10		1		2	1	1												
SHEET TOTAL					3,031	3,490	876	276	5	4	8	4	4	-	-	-	-	-	-	-	-	-	-	-	-

AERIAL SAG: 1.5% AERIAL SAG IS INCLUDED IN THE QUANTITIES FOR ANY AERIAL FIBER OR CABLE ITEMS.

3378-E

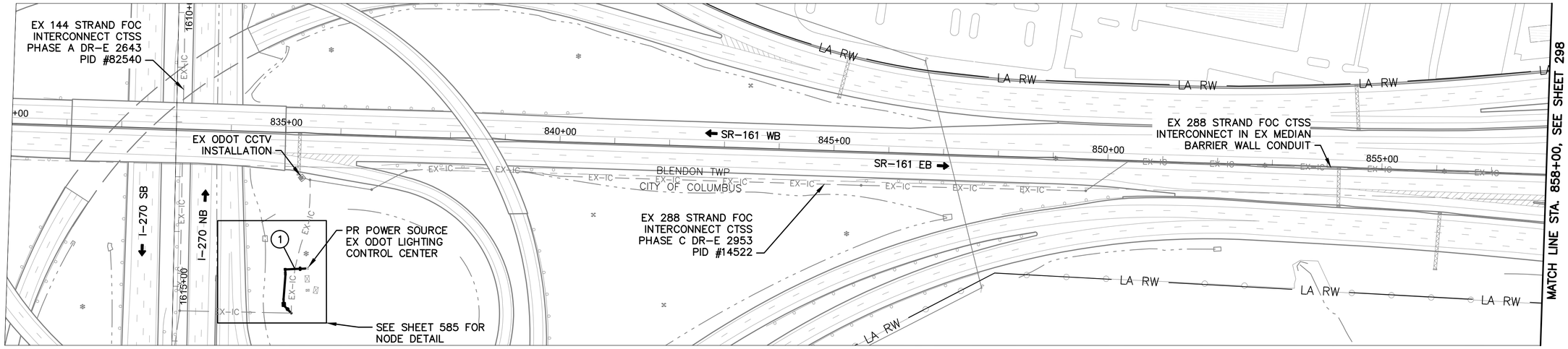
CIP: 540007-100012
PID NUMBER: 99733

NEW ALBANY RD W BTWN STA. 0+00 & 11+00, NEW ALBANY RD E. BTWN STA. 0+00 & 22+00, INTS 3294, 3253, 3295, 3252

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

296
915

J:\Jobs\63721 CTSS Phase E\TECHPROD\Sheets\CTSS_PhE_Trunk2_N_ALBANY_W_IC_QUANTITIES.dwg – NEW ALBANY RD WEST_Q1 layout ~ last saved by: gburch 09/11/2018 09:13am ~ printed 09/18/2018 10:02am PSLTS: 1 LTS: 1 CAS: 1:1



SR-161 BETWEEN STATION 830+00 AND 858+00

NOTES:

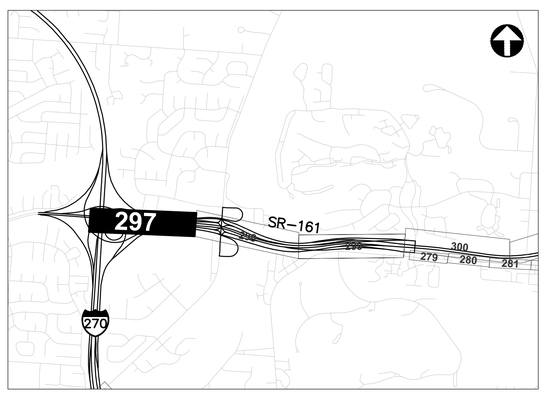
1. SEE SHEET 302 FOR QUANTITIES.
2. SEE SHEET 626 FOR COMMUNICATION DETAILS.
3. SEE SHEET 585 FOR NODE DETAILS.

(#) EXISTING UTILITY CROSSING. SEE UTILITY CROSSING INFO SHEET 18.

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CITY OF COLUMBUS UTILITY LEGEND

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- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 8 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

3378-E

HORIZONTAL SCALE IN FEET
0 100 200

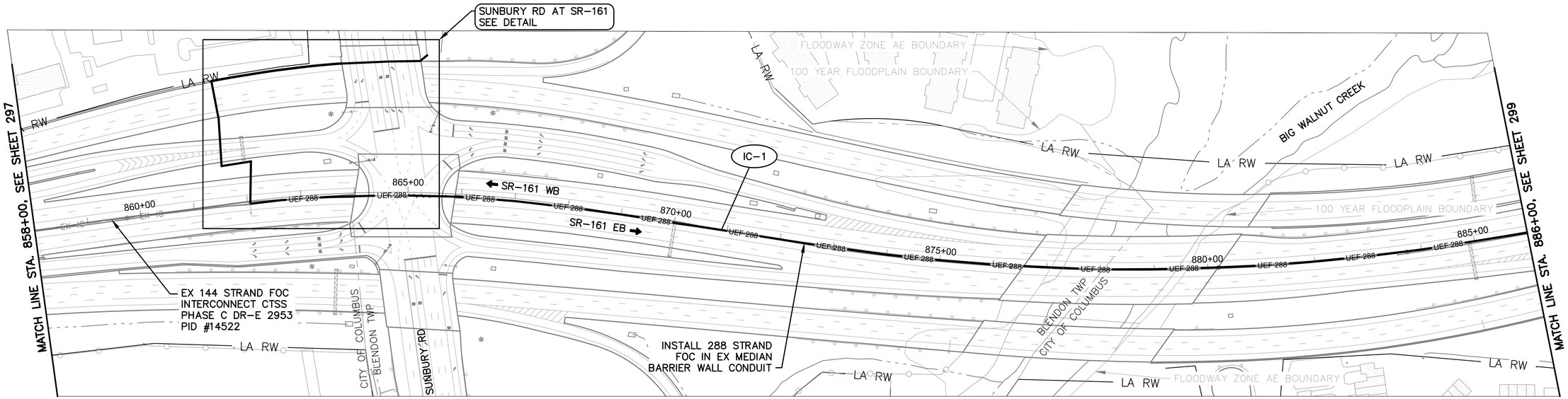
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PID NUMBER: 99733

INTERCONNECT PLAN
SR-161 BETWEEN STA. 830+00 AND 858+00

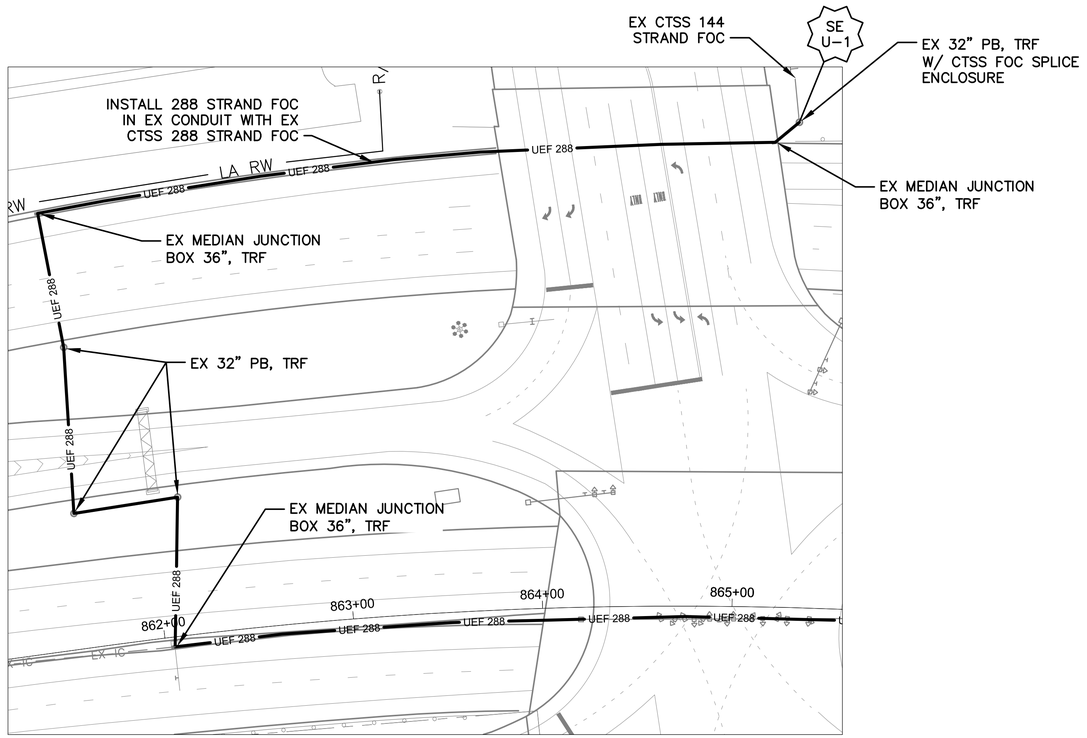
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E - FINAL SUBMITTAL

297
915

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SR-161 BETWEEN STATION 858+00 AND 886+00



DETAIL

0 40 80
HORIZONTAL
SCALE IN FEET

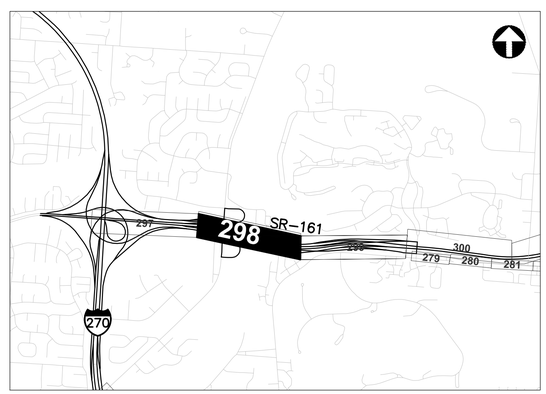
NOTES:

1. SEE SHEET 302 FOR QUANTITIES.
2. SEE SHEETS 626 & 809 FOR COMMUNICATION DETAILS.
3. LIMITED ACCESS RIGHT OF WAY IS LOCATED OUTSIDE OF VIEW SHOWN ABOVE.

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CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 8 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

3378-E

0 100 200
HORIZONTAL
SCALE IN FEET

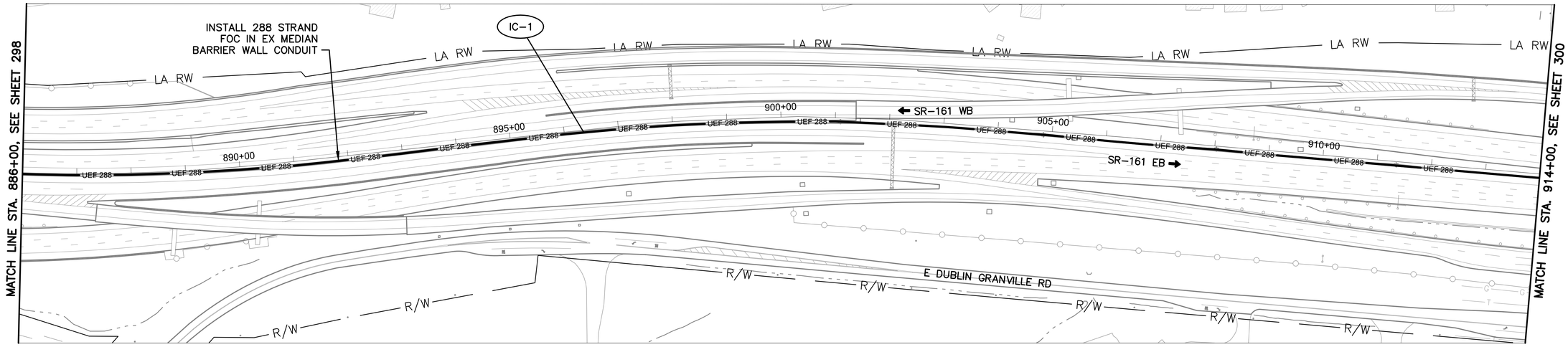
CIP: 540007-100012
PID NUMBER: 99733

INTERCONNECT PLAN
SR-161 BETWEEN STA. 858+00 AND 886+00

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E - FINAL SUBMITTAL

298
915

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SR-161 BETWEEN STATION 886+00 AND 914+00

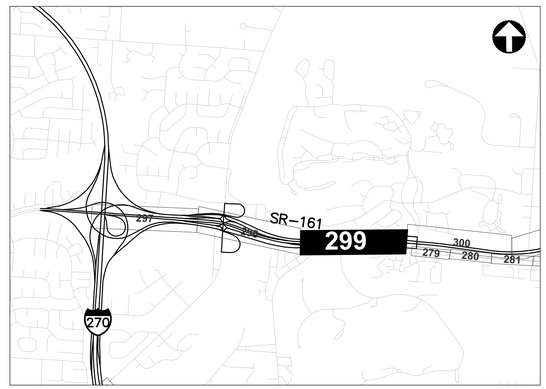
NOTES:

1. SEE SHEET 302 FOR QUANTITIES.
2. SEE SHEET 626 FOR COMMUNICATION DETAILS.

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CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 8 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

3378-E

HORIZONTAL SCALE IN FEET
0 100 200

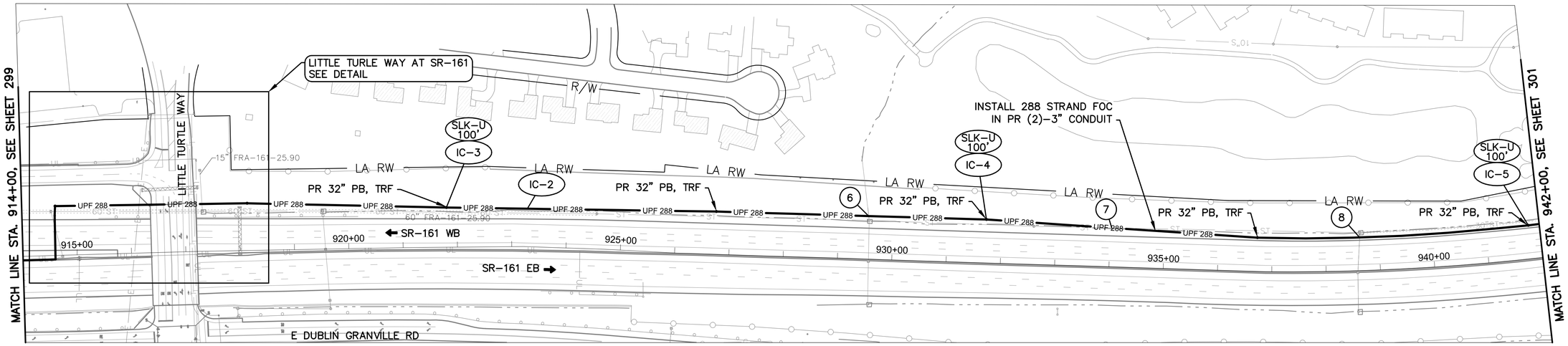
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PID NUMBER: 99733

INTERCONNECT PLAN
SR-161 BETWEEN STA. 886+00 AND 914+00

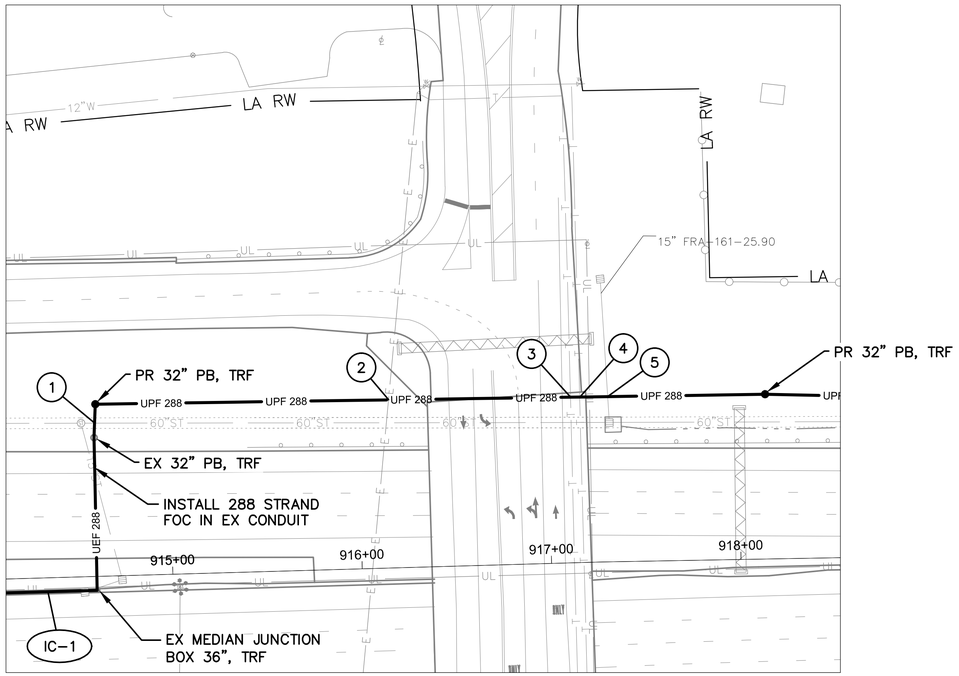
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E - FINAL SUBMITTAL

299
915

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SR-161 BETWEEN STATION 914+00 AND 942+00



DETAIL

0 40 80

HORIZONTAL
SCALE IN FEET

NOTES:

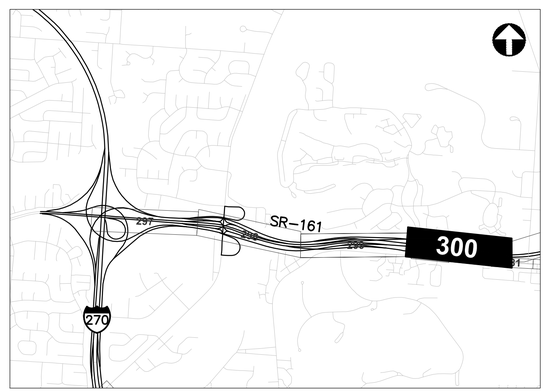
1. SEE SHEET 302 FOR QUANTITIES.
2. SEE SHEET 626 FOR COMMUNICATION DETAILS.
3. RIGHT OF WAY IS LOCATED OUTSIDE OF THE EXTENT OF VIEW ABOVE.

(#) EXISTING UTILITY CROSSING. SEE UTILITY CROSSING INFO SHEET 18.

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CITY OF COLUMBUS UTILITY LEGEND

- [X] SEWER
- [X] WATER
- [ ] POWER
- [ ] LIGHTING



REFER TO SHEET 8 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

3378-E

0 100 200
HORIZONTAL
SCALE IN FEET

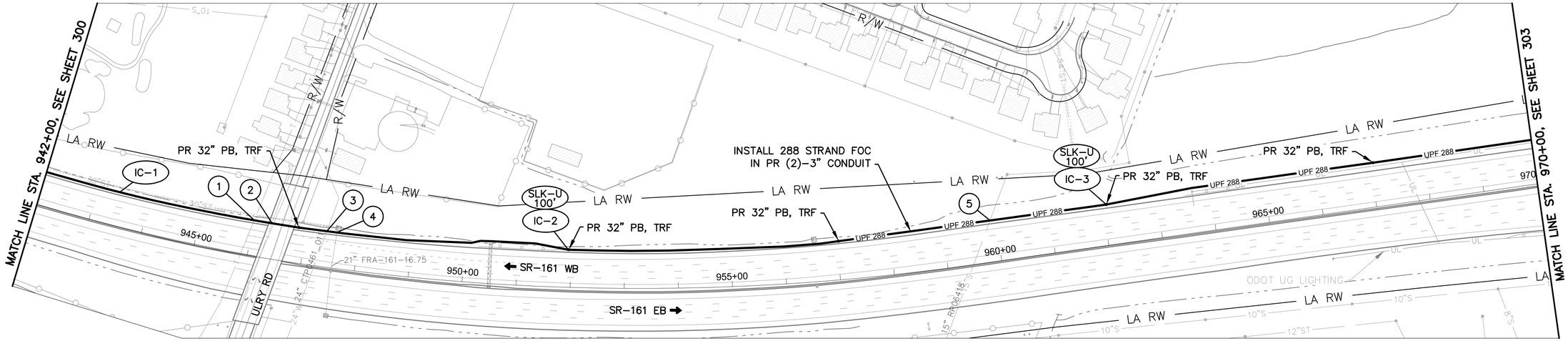
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PID NUMBER: 99733

INTERCONNECT PLAN
SR-161 BETWEEN STA. 914+00 AND 942+00

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E - FINAL SUBMITTAL

300
915

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SR-161 BETWEEN STATION 942+00 AND 970+00

NOTES:

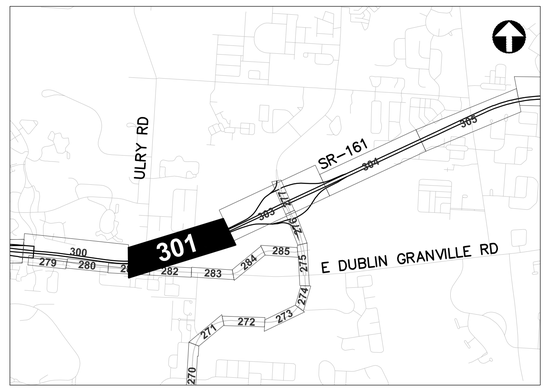
1. SEE SHEET 302 FOR QUANTITIES.
2. SEE SHEET 626 FOR COMMUNICATION DETAILS.
3. LIMITED ACCESS RIGHT OF WAY IS LOCATED OUTSIDE OF THE EXTENT OF VIEW ABOVE.

(#) EXISTING UTILITY CROSSING. SEE UTILITY CROSSING INFO SHEET 18.

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CITY OF COLUMBUS UTILITY LEGEND

- [X] SEWER
- [X] WATER
- [ ] POWER
- [ ] LIGHTING



REFER TO SHEET 8 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

3378-E

HORIZONTAL SCALE IN FEET
0 100 200

CIP: 540007-100012
PID NUMBER: 99733

INTERCONNECT PLAN
SR-161 BETWEEN STA. 942+00 AND 970+00

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E - FINAL SUBMITTAL

301
915

J:\Jobs\63721 ctss phase e\TECHPROD\Sheets\CTSS_PhE_Trunk2_SR-161_INTERCONNECT.dwg - SR-161-5 layout ~ last saved by: gburch 08/24/2018 08:31am ~ printed 09/11/2018 11:26pm PSLTS: 1 LTS: 1 CAS: 1:1

ESTIMATED QUANTITIES

SHEET NO.	REFERENCE NO.	LOCATION	STATION FROM	STATION TO	202 EXISTING CONDUIT CLEANED, AS PER PLAN	625 CONDUIT, 3", AS PER PLAN	625 PULL BOX, CONCRETE 32", AS PER PLAN	625 TRENCH, 36" DEEP, AS PER PLAN	632 INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 288 STRAND	632 INTERCONNECT CABLE, MISC.: FIBER OPTIC FUSION SPLICE	632 INTERCONNECT, MISC.: SPLICE ENCLOSURE, CLAMSHELL, 288 SPLICE												
			FROM	TO	FT	FT	EACH	FT	FT	EACH	EACH													
SR-161 BETWEEN STA. 858+00 AND 886+00																								
298	IC-1	SR-161	865+29, 265' LT	886+00, 1' RT	3,096				3,096															
298	SE U-1	SR-161	865+29, 265' LT						75	288	1													
SR-161 BETWEEN STA. 886+00 AND 914+00																								
299	IC-1	SR-161	886+00, 1' RT	914+00, 7' RT	2,799				2,799															
SR-161 BETWEEN STA. 914+00 AND 942+00																								
300	IC-1	SR-161	914+00, 7' LT	914+60, 73' LT	140				140															
300	IC-2	SR-161	914+60, 73' LT	942+00, 62' LT		5,504	4	2,752	2,752															
300	IC-3	SR-161	921+80, 73' LT				1		100															
300	IC-4	SR-161	931+71, 80' LT				1		100															
300	IC-5	SR-161	941+79, 62' LT				1		100															
SR-161 BETWEEN STA. 942+00 AND 970+00																								
301	IC-1	SR-161	942+00, 62' LT	970+00, 82' LT		5,544	3	2,772	2,772															
301	IC-2	SR-161	951+94, 69' LT				1		100															
301	IC-3	SR-161	962+06, 75' LT				1		100															
SHEET TOTAL					6,035	11,048	12	5,524	12,134	288	1	-	-	-	-	-	-	-	-	-	-	-	-	-

AERIAL SAG: 1.5% AERIAL SAG IS INCLUDED IN THE QUANTITIES FOR ANY AERIAL FIBER OR CABLE ITEMS.

3378-E

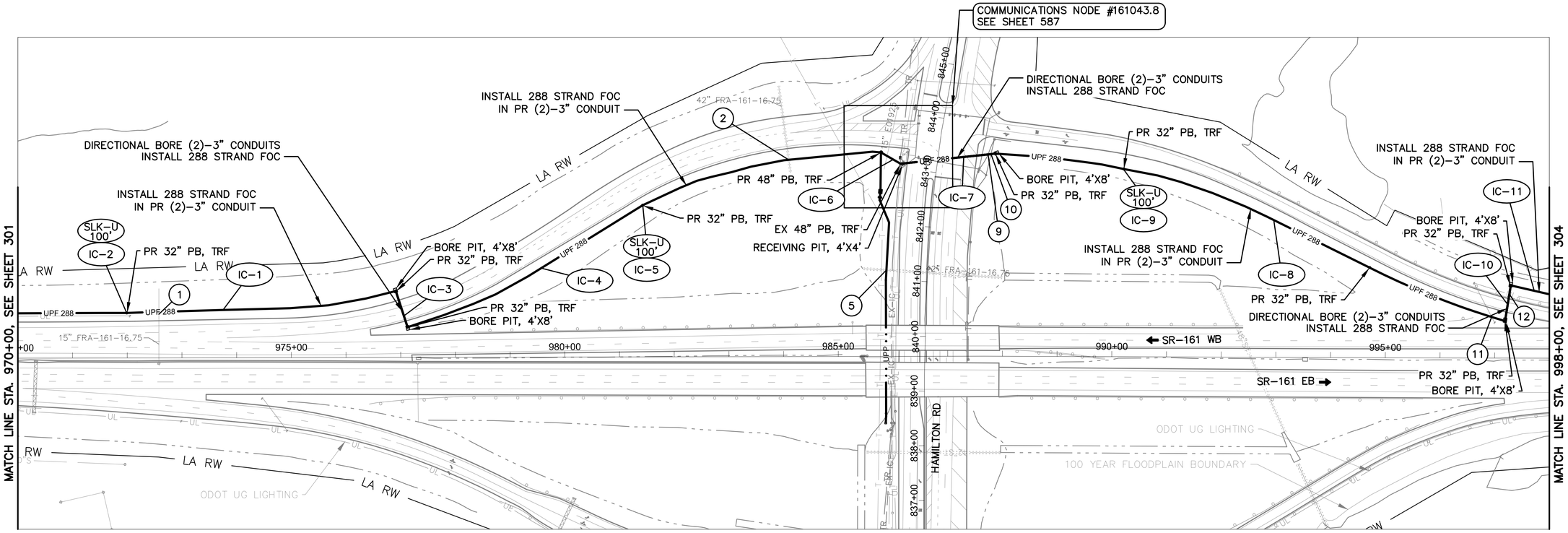
CIP: 540007-100012
PID NUMBER: 99733

SR-161 BETWEEN STA. 858+00 & 970+00

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

302
915

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SR-161 BETWEEN STATION 970+00 AND 998+00

NOTES:

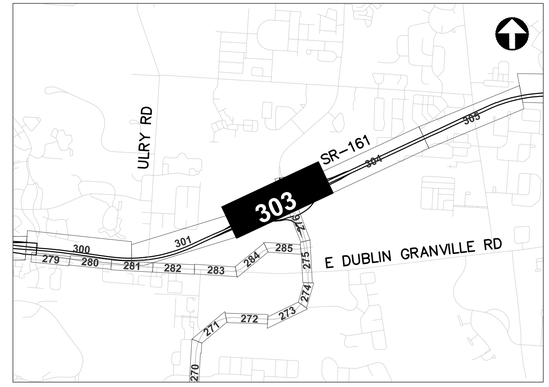
1. SEE SHEET 307 FOR QUANTITIES.
2. SEE SHEET 626 FOR COMMUNICATION DETAILS.
3. SEE SHEET 587 FOR UTILITY CROSSINGS 3–4 AND 6–8.

(#) EXISTING UTILITY CROSSING. SEE UTILITY CROSSING INFO SHEET 18.

Ohio Utilities Protection Service
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800-362-2764 or 8-1-1
www.oups.org

CITY OF COLUMBUS UTILITY LEGEND

☒	SEWER
☐	WATER
☐	POWER
☒	LIGHTING



REFER TO SHEET 8 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

3378-E

HORIZONTAL SCALE IN FEET
0 100 200

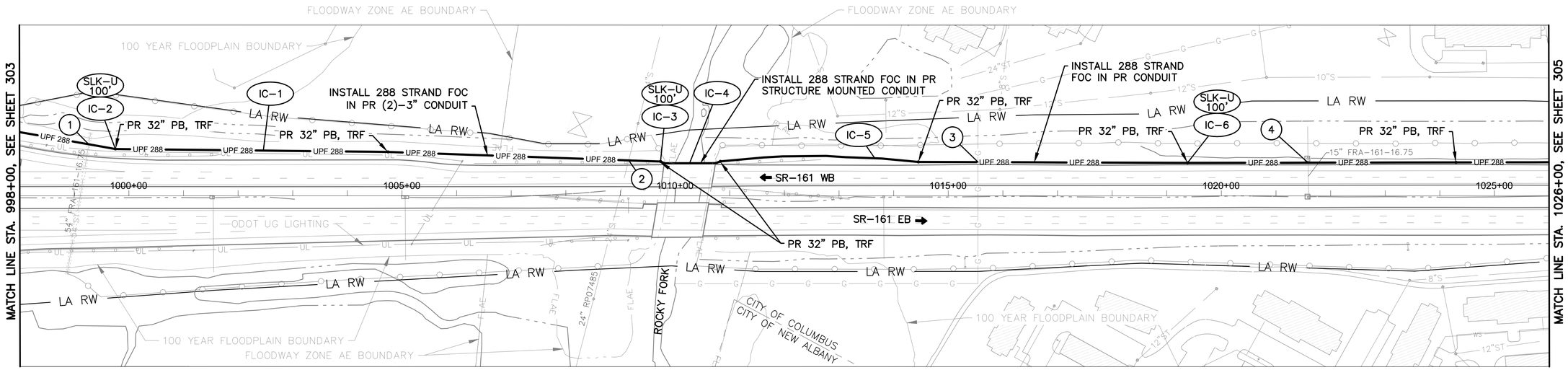
CIP: 540007–100012
PID NUMBER: 99733

INTERCONNECT PLAN
SR–161 BETWEEN STA. 970+00 AND 998+00

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

303
915

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SR-161 BETWEEN STATION 998+00 AND 1026+00

NOTES:

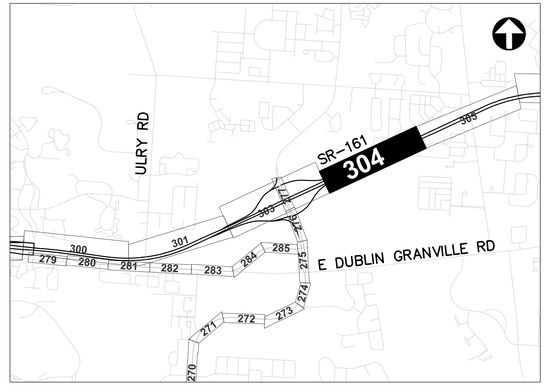
1. SEE SHEET 307 FOR QUANTITIES.
2. SEE SHEET 626 FOR COMMUNICATION DETAILS.

(#) EXISTING UTILITY CROSSING. SEE UTILITY CROSSING INFO SHEET 18.

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CITY OF COLUMBUS UTILITY LEGEND

- [X] SEWER
- [ ] WATER
- [ ] POWER
- [ ] LIGHTING



REFER TO SHEET 8 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

HORIZONTAL SCALE IN FEET
0 100 200

CIP: 540007–100012
PID NUMBER: 99733

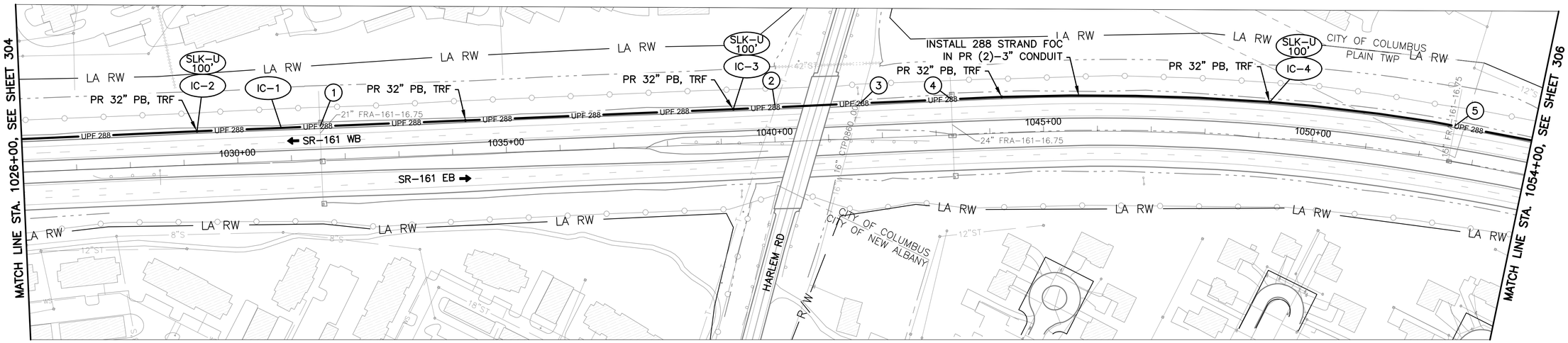
INTERCONNECT PLAN
SR–161 BETWEEN STA. 998+00 AND 1026+00

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

304
915

3378-E

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SR-161 BETWEEN STATION 1026+00 AND 1054+00

NOTES:

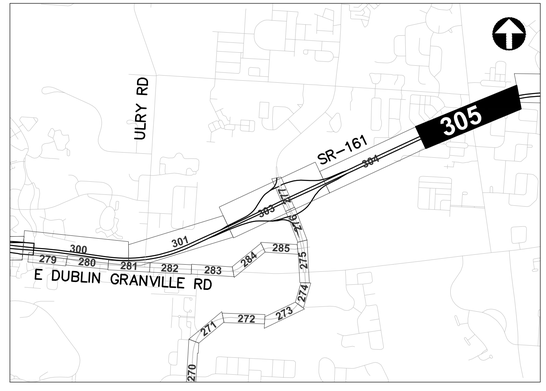
1. SEE SHEET 307 FOR QUANTITIES.
2. SEE SHEET 626 FOR COMMUNICATION DETAILS.

(#) EXISTING UTILITY CROSSING. SEE UTILITY CROSSING INFO SHEET 18.

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CITY OF COLUMBUS UTILITY LEGEND

- [X] SEWER
- [X] WATER
- [ ] POWER
- [ ] LIGHTING



REFER TO SHEET 8 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

HORIZONTAL SCALE IN FEET
0 100 200

CIP: 540007-100012
PID NUMBER: 99733

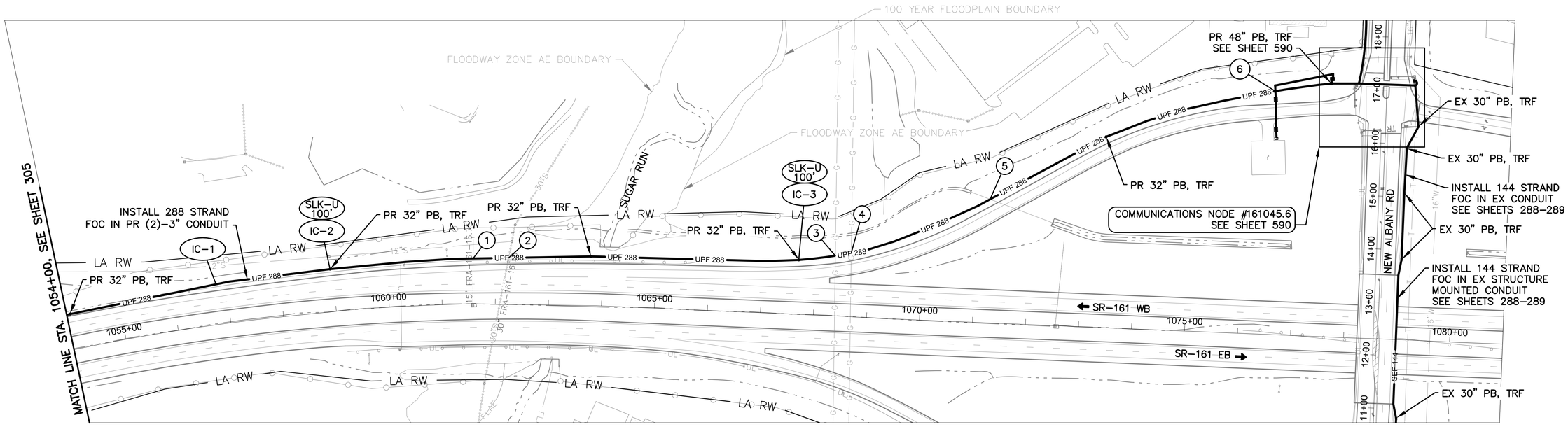
INTERCONNECT PLAN
SR-161 BETWEEN STA. 1026+00 AND 1054+00

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

305
915

3378-E

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SR-161 BETWEEN STATION 1054+00 AND 1081+00

NOTES:

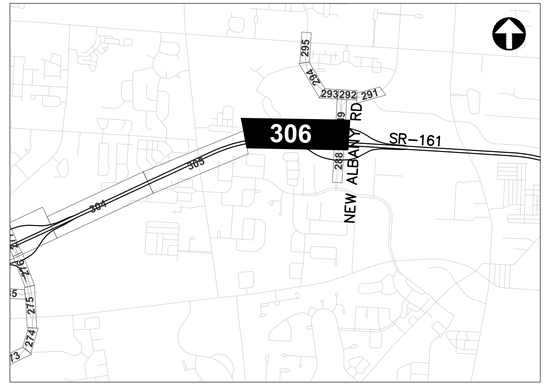
1. SEE SHEET 307 FOR QUANTITIES.
2. SEE SHEET 627 FOR COMMUNICATION DETAILS.
3. SEE SHEET 590 FOR NODE DETAILS.

(#) EXISTING UTILITY CROSSING. SEE UTILITY CROSSING INFO SHEET 18.

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CITY OF COLUMBUS UTILITY LEGEND

- ☒ SEWER
- ☒ WATER
- ☐ POWER
- ☒ LIGHTING



REFER TO SHEET 8 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

3378-E

HORIZONTAL SCALE IN FEET
0 100 200

CIP: 540007–100012
PID NUMBER: 99733

INTERCONNECT PLAN
SR–161 BETWEEN STA. 1054+00 AND 1081+00

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

306
915

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ESTIMATED QUANTITIES

SHEET NO.	REFERENCE NO.	LOCATION	STATION		625 CONDUIT, 3", AS PER PLAN	625 CONDUIT, JACKED OR DRILLED, 3", AS PER PLAN	625 CONDUIT, MISC.: 4" CONDUIT, FIBER-GLASS REINFORCED, ATTACHED TO STRUCTURE	625 PULL BOX, CONCRETE 32", AS PER PLAN	625 TRENCH, 36" DEEP, AS PER PLAN	632 INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 288 STRAND													
			FROM	TO	FT	FT	FT	EACH	FT	FT														
SR-161 BETWEEN STA. 970+00 AND 998+00																								
303	IC-1	SR-161	970+00, 82' LT	976+94, 111' LT	1,396			1	698	698														
303	IC-2	SR-161	971+99, 82' LT					1		100														
303	IC-3	SR-161	976+94, 111' LT	977+11, 61' LT		106				53														
303	IC-4	SR-161	977+11, 61' LT	985+63, 374' LT	1,922			1	961	961														
303	IC-5	SR-161	981+39, 282' LT		48			1		100														
303	IC-6	SR-161	985+99, 371' LT	986+14, 352' LT	24				24	24														
303	IC-7	SR-161	986+14, 352' LT	987+86, 382' LT		354				177														
303	IC-8	SR-161	987+86, 382' LT	997+19, 73' LT	1,990			3	995	995														
303	IC-9	SR-161	990+24, 362' LT					1		100														
303	IC-10	SR-161	997+19, 73' LT	997+27, 124' LT		104				52														
303	IC-11	SR-161	997+27, 124' LT	998+00, 108' LT	148			1	74	74														
SR-161 BETWEEN STA. 998+00 AND 1026+00																								
304	IC-1	SR-161	998+00, 108' LT	1009+73, 63' LT	2,350			1	1,175	1,175														
304	IC-2	SR-161	999+75, 86' LT					1		100														
304	IC-3	SR-161	1009+73, 63' LT					1		100														
304	IC-4	SR-161	1009+73, 63' LT	1010+82, 63' LT			222			111														
304	IC-5	SR-161	1010+82, 63' LT	1026+00, 62' LT	3,036			3	1,518	1,518														
304	IC-6	SR-161	1019+37, 60' LT					1		100														
SR-161 BETWEEN STA. 1026+00 AND 1054+00																								
305	IC-1	SR-161	1026+00, 62' LT	1054+00, 67' LT	5,634			2	2,817	2,817														
305	IC-2	SR-161	1029+26, 62' LT					1		100														
305	IC-3	SR-161	1039+24, 64' LT					1		100														
305	IC-4	SR-161	1049+15, 68' LT					1		100														
SR-161 BETWEEN STA. 1054+00 AND 1081+00																								
306	IC-1	SR-161	1054+00, 67' LT	1077+57, 478' LT	5,128			3	2,564	2,564														
306	IC-2	SR-161	1058+96, 80' LT					1		100														
306	IC-3	SR-161	1067+69, 102' LT					1		100														
SHEET TOTAL					21,676	564	222	26	10,826	12,319	-	-		-	-	-	-	-	-	-	-	-	-	-

AERIAL SAG: 1.5% AERIAL SAG IS INCLUDED IN THE QUANTITIES FOR ANY AERIAL FIBER OR CABLE ITEMS.

3378-E

CIP: 540007-100012
PID NUMBER: 99733

SR-161 BETWEEN STA. 970+00 & 1081+00

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

307
915

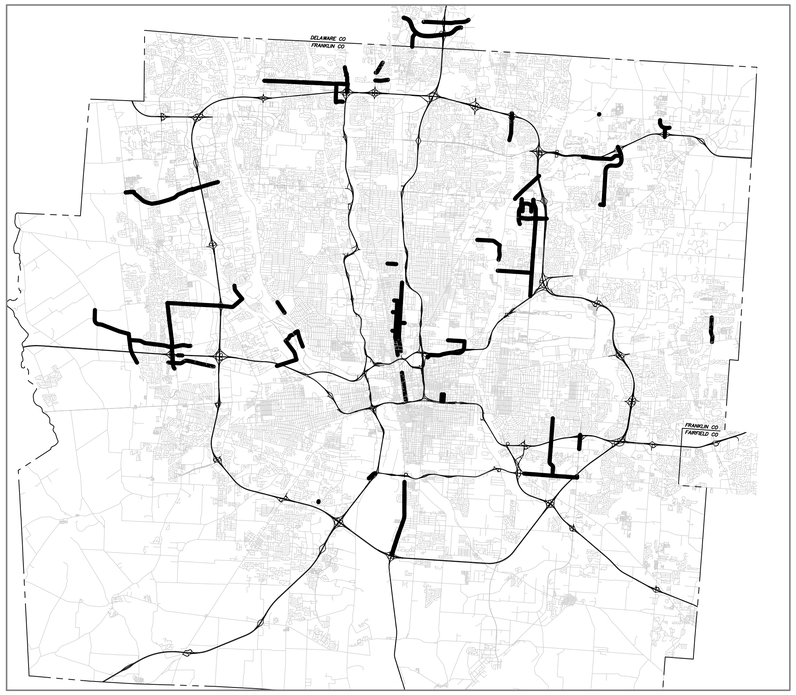
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CITY OF COLUMBUS, OHIO
DEPARTMENT OF PUBLIC SERVICE
DIVISION OF DESIGN AND CONSTRUCTION

CITY OF COLUMBUS
TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E

FRA-COLUMBUS TRAFFIC SIGNAL SYSTEM-PHASE E

VOLUME 2 OF 3



LOCATION MAP

– PROJECT AREA

SCALE IN MILES

0 1 2 3 6 12

STUDY AREA
SEE SHEET 309 OF 913

VOL. 1 – INTERCONNECT SHEETS 1 TO 307
VOL. 2 – INTERCONNECT SHEETS 308 TO 605
VOL. 3 – COMMUNICATIONS SHEETS 606 TO 913

INDEX OF VOLUME 2 SHEETS

TITLE SHEET 308
NODE OVERVIEW 309
LEGEND SHEETS 310,311
PLAN SHEET INDEX 312-321
UTILITY CROSSING INDEX 324-326
EXISTING SIGN INDEX 327
VOLUME 2 SUB-SUMMARY 328-337
POWER SERVICE DETAILS 338-346
INTERCONNECT PLANS AND INTERSECTION DETAILS 347-605
SHEETS NOT USED 461-464

FEDERAL PROJECT NUMBER
E080(964)

CIP: 540007-100012
PID NUMBER: 99733

TITLE SHEET
VOLUME 2 OF 3

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

308
915

3378-E

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Legend

- Columbus Signal
- Franklin County Signal
- Wireless Signal
- Wireless Link
- Phase E 144 SMF Interconnect
- Existing 288 SMF Backbone
- Proposed 288 SMF Backbone
- Existing Phase Comm Node
- Proposed Phase E Comm Node
- Future Phase Comm Node

POWELL RD
GEMINI PKWY
POLARIS PKWY
SMOKY ROW RD
PARK RD
SANCUS BLVD
E CAMPUS VIEW BLVD
WORTHINGTON RD
WESTERVILLE
SMOTHERS RD
S SPRING RD
SUNBURY RD
HARLEM RD
CENTRAL COLLEGE RD
WARNER RD
ULRY RD
HARD RD
SNOUFFER RD
WORTHINGTON
DUBLIN
DUBLIN-GRANVILLE RD
MINERVA PARK
SAWMILL RD
GLENWORTH RD
N HIGH ST
COSGRAY RD
AVERY RD
BETHEL RD
MORSE RD
THOMPSON RD
HAYDEN RUN RD
HENDERSON RD
LEPPERT RD
HILLIARD
UPPER ARLINGTON
WESTERVILLE RD
EASTON WAY
INNIS RD
MCCUTCHEON RD
HAMILTON RD
SCIOTO DARBY CREEK RD
KENNY RD
WEBER RD
AGLER RD
GAHANNA
ALTON DARBY CREEK RD
RIVERSIDE DR
TREMONT RD
CLEVELAND AVE
JOYCE AVE
WOODLAND AVE
CASSADY AVE
STELZER RD
ROBERTS RD
DUBLIN RD
WALKER RD
RENNER RD
TRABUE RD
MCKINLEY AVE
W FIFTH AVE
E FIFTH AVE
GRANDVIEW HEIGHTS
BEXLEY
E BROAD ST
Franklin County Engineer WMF
FCEO
LONG ST
WHITEHALL
REYNOLDSBURG
LINCOLN VILLAGE
VALLEYVIEW
W BROAD ST
MOUND ST
FULTON ST
E MAIN ST
E LIVINGSTON AVE
OHIO AVE
CHAMPION AVE
SULLIVANT AVE
HALL RD
CLIME RD
HIGH ST
COURTRIGHT RD
TUSSING RD
REFUGEE RD
HINES RD
NORTON RD
ALKIRE RD
HARRISBURG PIKE
GANTZ RD
HARDY PKWY ST
DYER RD
PARSONS AVE
WILLIAMS RD
BRICE RD
WINCHESTER PIKE
OBETZ RD
OBETZ
GROVE CITY
PICKERINGTON
Franklin County Engineer EMF
RATHMELL RD
GROVEPORT RD
HIGH ST
GROVEPORT
LONDON GROVEPORT RD
ROWE RD

1 REVISION 1.0 11-02-2018

3378-E

NOT TO SCALE

CIP: 540007 - 100012
PID NUMBER: 99733

COMMUNICATIONS OVERVIEW MAP

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

309
915

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EXISTING TRAFFIC SYMBOL LEGEND

- SIGNAL HEAD
- TR — EXISTING TRAFFIC CONDUIT
- EXISTING WOODEN UTILITY POLE
- EXISTING OVERHEAD SIGN
- EXISTING STRAIN POLE
- CB — EXISTING SIGNAL CONTROLLER
- PS — EXISTING POWER SUPPLY
- MAST ARM
- RAMP METER, EXISTING
- CONCRETE MEDIAN BARRIER WITHOUT MULTI–CELL CONDUIT
- CCTV — CCTV DEVICE, EXISTING
- BRACKET ARM, EXISTING
- OVERHEAD SIGN STRUCTURE, EXISTING
- DETECTOR LOOP, EXISTING
- DETECTOR STATION, EXISTING
- VDS CABINET, EXISTING
- EXISTING PULL BOXES (18", 24", 30", 36" SQUARE)
- EXISTING PULL BOX (30" x 48" RECTANGULAR DOUBLE DOOR)
- EXISTING PULL BOX (18", 725.06 RECTANGULAR; POLYCONCRETE)
- EXISTING PULL BOXES (27", 32", 48" ROUND)
- EXISTING JUNCTION BOX IN BARRIER WALL
- EXISTING ITS EQUIPMENT CABINET
- E — EXISTING 4' SQUARE VAULT
- EXISTING COMMUNICATION NODE
- EXISTING PEDESTRIAN SIGNAL/CROSSWALK PUSH BUTTON POLE
- PED — PEDESTRIAN CROSSWALK SIGNAL
- AMP — COAXIAL AMPLIFIER CABINET
- VD — EXISTING VIDEO TRAFFIC DETECTOR
- EXISTING FIBER OPTIC CABLE
- TRANSMISSION TOWER
- T — GROUND MOUNTED TRANSFORMER

UTILITY LEGEND

- CATCH BASIN
- CURB INLET
- HYDRANT
- MANHOLE
- C — COMBINED MANHOLE
- D / ST — STORM MANHOLE
- S — SANITARY MANHOLE
- W — WATER VALVE
- ST — STORM SEWER
- S — SANITARY SEWER
- CS — COMBINED SEWER
- W — WATER
- E — E — UNDERGROUND ELECTRIC/POWER LINE
- G — G — G — GAS LINE AND VALVE
- P — PETROLEUM TRANSMISSION LINE
- CATV — UNDERGROUND CABLE TV
- CA TV — CABLE TV PULL BOX

POWER, LIGHTING AND COMMUNICATIONS LEGEND

- LIGHTING CENTER
- L — LIGHTING CONDUIT
- T — TELECOMMUNICATIONS CONDUIT
- 4 / 6 / 8 — HIGH MAST LIGHTING TOWERS
- CM / T — EXISTING TELECOMMUNICATIONS PULL BOX
- E — EXISTING ELECTRICAL PULL BOX
- LUMINARIES
- UTILITY POLE
- LIGHT POLE
- POWER/LIGHT POLE
- TELEPHONE/POWER POLE
- TELEPHONE POLE
- POWER POLE
- TRANSMISSION POWER POLE
- 1234 — STREET ADDRESS
- GUY WIRE
- GUY ANCHOR

LAND FEATURE LEGEND

- RAILROAD W/ CROSSBUCK FLASHERS AND BARRIER
- LAKES, RIVERS AND STREAMS
- HEADWALL
- UT — EXISTING UNDERGROUND TANKS
- NOISE WALL
- CABLE BARRIER
- GUARDRAIL
- FENCE
- CENTER LINE
- CORPORATION BOUNDARY
- LA RW — RIGHT OF WAY WITH LIMITED ACCESS
- RR R/W — RAILROAD RIGHT OF WAY / PROPERTY LINE
- R/W — RIGHT OF WAY LINE
- WS — WARRANTY DEED FOR SCENIC PURPOSES
- UTILITY EASEMENT
- SH — SH — STANDARD HIGHWAY RIGHT OF WAY EASEMENT
- EDGE OF PAVEMENT
- ROAD DASH STRIPING
- LANE STRIPING
- FLX — FLOODWAY FRINGE BOUNDARY
- FLAE — FLOODWAY ZONE AE BOUNDARY
- FLAG POLE

ABBREVIATIONS

BTW – BETWEEN
CFN – COLUMBUS FIBERNET
CN – CITYNET (HYLAND)
COC – CITY OF COLUMBUS
CONT. – CONTROLLER
CTSS – COLUMBUS TRAFFIC SIGNAL SYSTEM
DOP – DIVISION OF POWER
DOW – DIVISION OF WATER
DOT – DEPARTMENT OF TECHNOLOGY
EA – EACH
EX – EXISTING
FOC – FIBER OPTIC CABLE
FO – FIBER OPTIC
FT – FEET
FV – FIELD VERIFIED
IC – INTERCONNECT
INT – INTERSECTION
ITS – INTELLIGENT TRANSPORTATION SYSTEM
OH – OVERHEAD
PB – PULL BOX
PR – PROPOSED
RU – RACK UNIT
SMF – SINGLE MODE FIBER
STA. – STATION
TR or TRF – TRAFFIC
UG – UNDERGROUND
UNK – UNKNOWN
UT – UNDERGROUND TANKS
W/ – WITH

EXISTING UTILITY POLES

- AEP 1865463 7606636 — AEP POLE WITH XY COORDINATES
- AT&T 1877088 758521 — AT&T POLE WITH XY COORDINATES
- DOP 760636 — DOP POLE WITH SIX DIGIT ID
- UNK NO ID FV — EXISTING POLE MISSING ID (FIELD VERIFIED)

CONNECTION TYPE
- PC — POLE CLAMP
- SO — STAND OFF
- NC — NO CONTACT

POLE TYPE
- SP — STRAIN POLE
- LP — LIGHT POLE
- MP — MISC. UTILITY POLE

3378-E

CIP: 540007–100012
PID NUMBER: 99733

EXISTING LEGEND & ABBREVIATIONS

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

310
915

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PROPOSED ITS LINETYPES, EXISTING INFRASTRUCTURE

AEF 24 — AEF 24 — AEF 24	EXISTING AERIAL INTERCONNECT, PROPOSED 24 FIBER OVERLASHED TO EXISTING IC
AEF DROP 24 — AEF DROP 24	EXISTING AERIAL INTERCONNECT, PROPOSED 24 FIBER DROP OVERLASHED TO EXISTING IC
AEF 144	EXISTING AERIAL INTERCONNECT, PROPOSED 144 FIBER OVERLASHED TO EXISTING IC
ARF 24 — ARF 24 — ARF 24	EXISTING AERIAL INTERCONNECT, REPLACE WITH 24 FIBER
ARF DROP 24 — ARF DROP 24	EXISTING AERIAL INTERCONNECT, REPLACE WITH 24 FIBER DROP
ARF 144	EXISTING AERIAL INTERCONNECT, REPLACE WITH 144 FIBER
ARP — ARP	EXISTING AERIAL POWER, REPLACE WITH PROPOSED POWER CABLE
UE5 — UE5	EXISTING UNDERGROUND CONDUIT, PROPOSED CAT 5
UEF 24 — UEF 24 — UEF 24	EXISTING UNDERGROUND CONDUIT, PROPOSED 24 FIBER
UEF DROP 24 — UEF DROP 24	EXISTING UNDERGROUND CONDUIT, PROPOSED 24 FIBER DROP
UEF DROP 72 — UEF DROP 72	EXISTING UNDERGROUND CONDUIT, PROPOSED 72 FIBER DROP
UEF 144	EXISTING UNDERGROUND CONDUIT, PROPOSED 144 FIBER
UEF 288	EXISTING UNDERGROUND CONDUIT, PROPOSED 288 FIBER
URF 24 — URF 24 — URF 24	EXISTING UNDERGROUND CONDUIT, REPLACE EX IC WITH PROPOSED 24 FIBER
URF DROP 24 — URF DROP 24	EXISTING UNDERGROUND CONDUIT, REPLACE EX IC WITH PROPOSED 24 FIBER DROP
URF 144	EXISTING UNDERGROUND CONDUIT, REPLACE EX IC WITH PROPOSED 144 FIBER
SEF 144	EXISTING STRUCTURAL CONDUIT, PROPOSED 144 FIBER
SRF 144	EXISTING STRUCTURAL CONDUIT, REPLACE EX IC WITH PROPOSED 144 FIBER
SEF 288	EXISTING STRUCTURAL CONDUIT, PROPOSED 288 FIBER
X — X — X — X	EXISTING INTERCONNECT TO BE REMOVED
EX-IC	EXISTING INTERCONNECT

PROPOSED ITS LINETYPES, PROPOSED INFRASTRUCTURE

AP5 — AP5	PROPOSED AERIAL CABLE, PROPOSED CAT 5
APC APC APC APC	PROPOSED AERIAL CABLE, PROPOSED CCTV COMPOSITE CABLE
APF 24 — APF 24 — APF 24	PROPOSED AERIAL INTERCONNECT, PROPOSED 24 FIBER
APF DROP 24 — APF DROP 24	PROPOSED AERIAL INTERCONNECT, PROPOSED 24 FIBER DROP
APF 144	PROPOSED AERIAL INTERCONNECT, PROPOSED 144 FIBER
UPF 24 — UPF 24 — UPF 24	PROPOSED UNDERGROUND CONDUIT, PROPOSED 24 FIBER
UPF DROP 24 — UPF DROP 24	PROPOSED UNDERGROUND CONDUIT, PROPOSED 24 FIBER DROP
UPF 144	PROPOSED UNDERGROUND CONDUIT, PROPOSED 144 FIBER
UPF 288	PROPOSED UNDERGROUND CONDUIT, PROPOSED 288 FIBER
UPP — UPP	PROPOSED UNDERGROUND CONDUIT, PROPOSED UNDERGROUND POWER
UP5 — UP5	PROPOSED UNDERGROUND CONDUIT, PROPOSED CAT 5
UPC UPC UPC UPC	PROPOSED UNDERGROUND CONDUIT, PROPOSED CCTV COMPOSITE CABLE
SPF 144	PROPOSED STRUCTURAL CONDUIT, PROPOSED 144 FIBER
SPF 288	PROPOSED STRUCTURAL CONDUIT, PROPOSED 288 FIBER
// // // // //	PROPOSED GUY WIRE
APP — APP	PROPOSED AERIAL POWER

INTERCONNECT CALLOUTS

QUANTITIES INCLUDE ALL FIBER OPTIC CABLE AND ANY ASSOCIATED EQUIPMENT OR INFRASTRUCTURE REQUIRED TO INSTALL THE CABLE BETWEEN PROPOSED FIBER OPTIC SPLICE ENCLOSURES AT ADJACENT CONNECTED INTERSECTIONS. THE FIBER OPTIC SPLICE ENCLOSURE SERVES AS A DELINEATION POINT BETWEEN INTERCONNECT AND INTERSECTION QUANTITIES AND IS ITSELF TYPICALLY INCLUDED WITHIN THE INTERCONNECT QUANTITIES.

THE FOLLOWING ITEMS ARE QUANTIFIED WITHIN THE ASSOCIATED INTERCONNECT QUANTITY SHEET:

IC-# — FIBER OPTIC CABLE
INSTALLED IN EXISTING CONDUIT (CONDUIT CLEANED) OR NEW CONDUIT
- INSTALLED IN NEW CONDUIT
- INSTALLED ON NEW MESSENGER WIRE
- OVERLASHED TO EXISTING OVERHEAD INTERCONNECT
- REPLACING EXISTING OVERHEAD INTERCONNECT

SE %-# — FIBER OPTIC SPLICE ENCLOSURE
- % – DENOTES ENCLOSURE TYPE
- A: AERIAL, U: UNDERGROUND

SLK-% ###' — FIBER OPTIC CABLE SLACK
- % – DENOTES SLACK TYPE
- A: AERIAL, U: UNDERGROUND
- ###': LENGTH OF SLACK

R-# — REMOVE EXISTING EQUIPMENT

CN-# — COMMUNICATIONS NODE CABINET

TC-# — SIGNAL CONTROL CABINET
- 24 STRAND FIBER OPTIC TERMINATION PANEL
- LAYER 2 ETHERNET NETWORK SWITCH
- FIBER OPTIC–ETHERNET TRANSCEIVER
- ETHERNET–SERIAL DATA TERMINAL SERVER OR TRAFFIC SIGNAL CONTROLLER

EC-# — EQUIPMENT DATA/POWER CABLE

EC-# IC-# — EQUIPMENT DATA/POWER CABLE AND FIBER OPTIC CABLE

IC-# IC-# — FIBER OPTIC CABLE, TWO VARYING TYPES

WR-# — WIRELESS NETWORK RADIO

CTV-# — CCTV TRAFFIC SURVEILLANCE CAMERA

CITY OF COLUMBUS UTILITY LEGEND

SEWER	EXISTING SEWER LINES IN THE VICINITY OF PROPOSED UNDERGROUND WORK.
WATER	EXISTING WATER LINES IN THE VICINITY OF PROPOSED UNDERGROUND WORK.
POWER	EXISTING UNDERGROUND POWER LINES OR FACILITIES ARE WITHIN THE VICINITY OF PROPOSED UNDERGROUND WORK – OR – PROPOSED AERIAL INTERCONNECT CABLE IS TO BE INSTALLED IN THE VICINITY OF EXISTING OVERHEAD POWER LINES.
LIGHTING	EXISTING UNDERGROUND LIGHTING LINES OR FACILITIES ARE WITHIN THE VICINITY OF PROPOSED UNDERGROUND WORK – OR – PROPOSED AERIAL INTERCONNECT CABLE IS TO BE INSTALLED IN THE VICINITY OF EXISTING OVERHEAD STREET LIGHTING LINES.
(#)	EXISTING UTILITY CROSSING. SEE UTILITY CROSSING INFO SHEET XX.
S#	EXISTING OVERHEAD SIGN CALLOUT

PROPOSED ITS SYMBOL LEGEND

	PROPOSED WOODEN UTILITY POLE
	PROPOSED STRAIN POLE
	PROPOSED GUY WIRE ANCHOR
CB	SIGNAL CONTROLLER REPLACED
	CCTV DEVICE, PROPOSED
	PROPOSED WIRELESS ANTENNA
	PROPOSED ITS EQUIPMENT CABINET
	PROPOSED COMMUNICATION NODE
	PROPOSED MEDIAN JUNCTION BOX, 36"
	PROPOSED PULL BOXES (18" 725.06; POLYCONCRETE)
	PROPOSED PULL BOXES (18", 24" SQUARE)
	PROPOSED PULL BOXES (32", 48" ROUND)
	BORE PIT, 4'X8'
	PROPOSED BRACKET ARM
	TRENCH IN PAVEMENT
	CONDUIT RESTORATION
	SIDEWALK REPLACED

3378-E

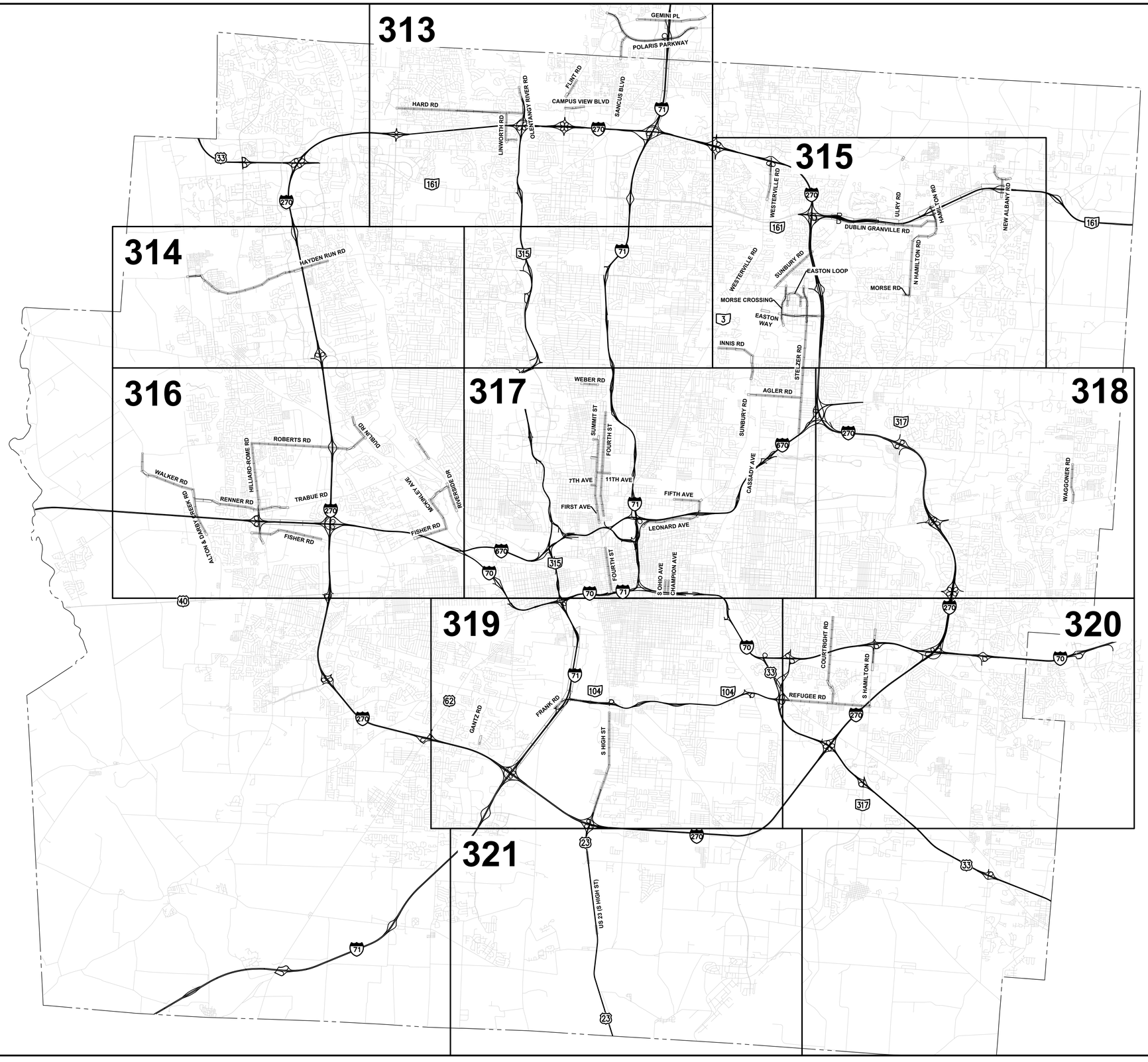
CIP: 540007-100012
PID NUMBER: 99733

PROPOSED LINETYPE AND SYMBOL LEGEND

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

311
915

J:\Jobs\63721 CTSS Phase E\TECHPROD\Sheets\Details\CTSS_PhE_Legend.dwg – 004_Legend (VOL II) layout ~ last saved by: gburch 08/28/2018 01:41pm ~ printed 09/12/2018 09:27am PSLTS: 1 LTS: 1 CAS: 1" = 1"



0 6,000 12,000
HORIZONTAL SCALE IN FEET

CIP: 540007–100012
PID NUMBER: 99733

INTERCONNECT SHEET INDEX
OVERVIEW (Volume 2)

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

312
915

3378-E

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3378-E

HORIZONTAL SCALE IN FEET
0 1500 3000

CIP: 540007-100012
PID NUMBER: 99733

INTERCONNECT PLAN SHEET INDEX
1 OF 9

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

313
915

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3378-E

0 1500 3000
HORIZONTAL SCALE IN FEET

CIP: 540007-100012
PID NUMBER: 99733

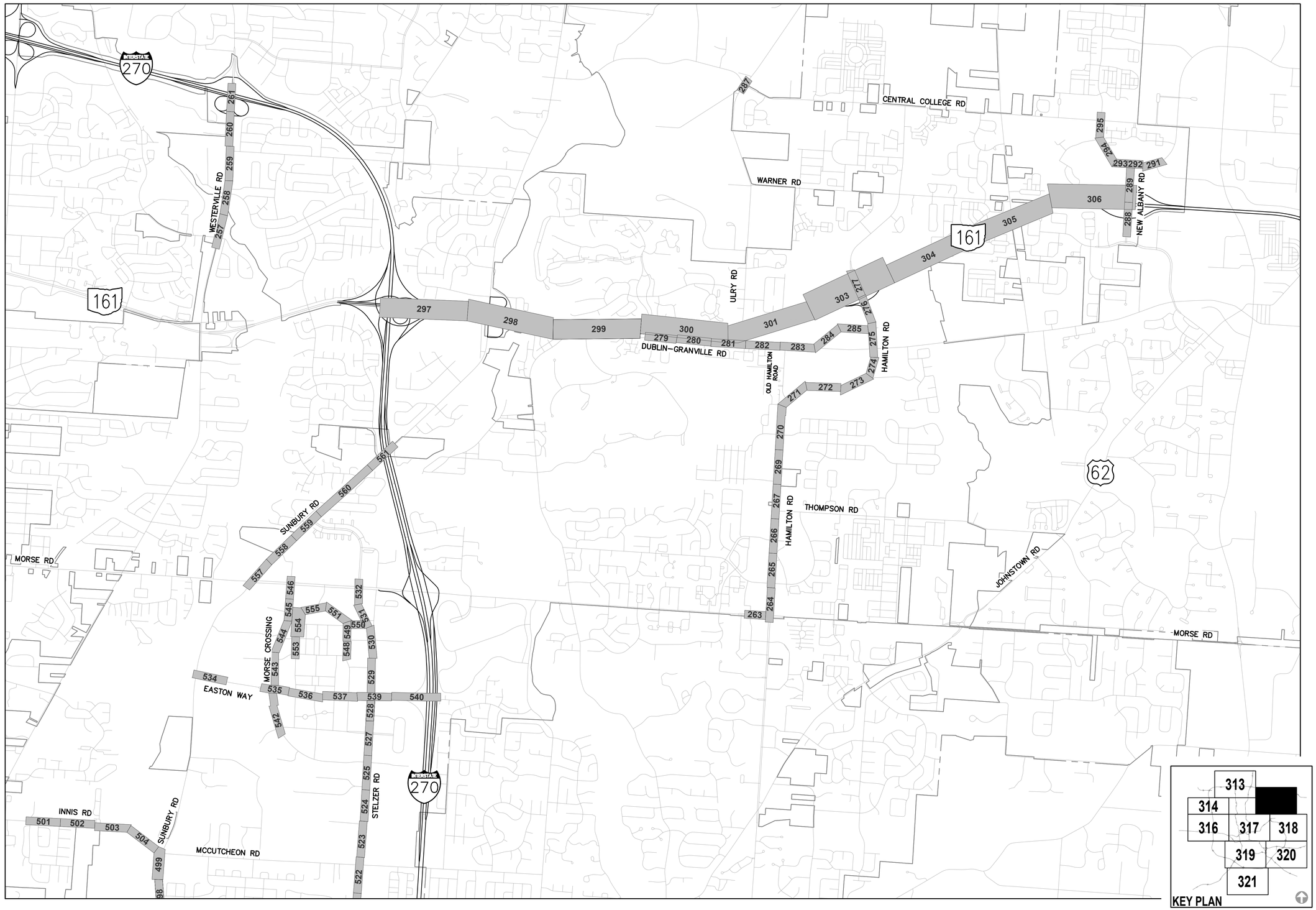
INTERCONNECT PLAN SHEET INDEX
2 OF 9

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

314
915

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3378-E

HORIZONTAL SCALE IN FEET
0
1500
3000

CIP: 540007–100012
PID NUMBER: 99733

INTERCONNECT PLAN SHEET INDEX
3 OF 9

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

315
915

3378-E

0 1500 3000
HORIZONTAL SCALE IN FEET

CIP: 540007-100012
PID NUMBER: 99733

INTERCONNECT PLAN SHEET INDEX
4 OF 9

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

316
915

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3378-E

HORIZONTAL SCALE IN FEET
0
1500
3000

CIP: 540007-100012
PID NUMBER: 99733

INTERCONNECT PLAN SHEET INDEX
5 OF 9

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

317
915

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3378-E

0 1500 3000
HORIZONTAL SCALE IN FEET

CIP: 540007-100012
PID NUMBER: 99733

INTERCONNECT PLAN SHEET INDEX
6 OF 9

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

318
915

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3378-E

0 1500 3000
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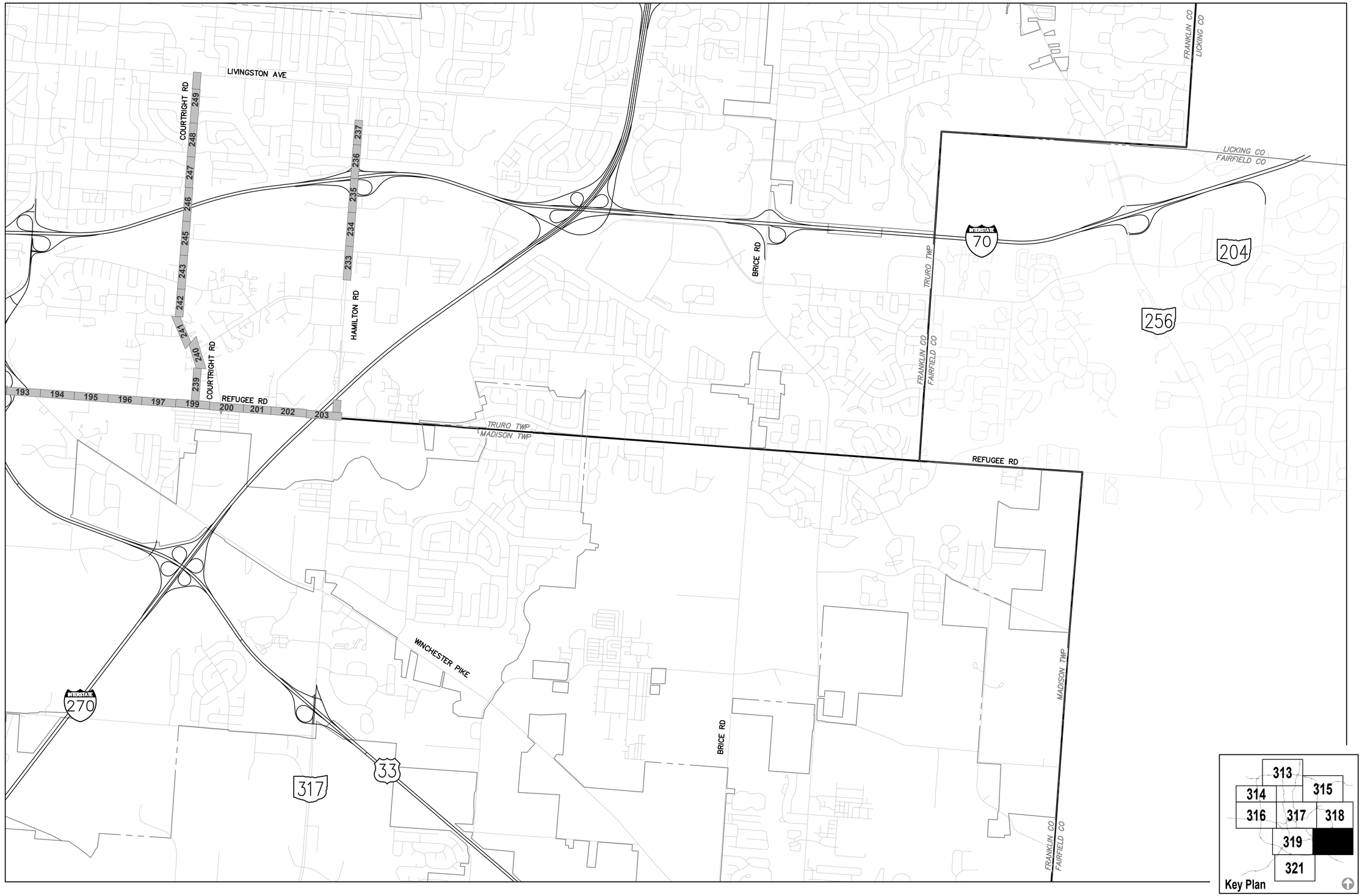
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PID NUMBER: 99733

INTERCONNECT PLAN SHEET INDEX
7 OF 9

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

319
915

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3378-E

0 1500 3000
HORIZONTAL SCALE IN FEET

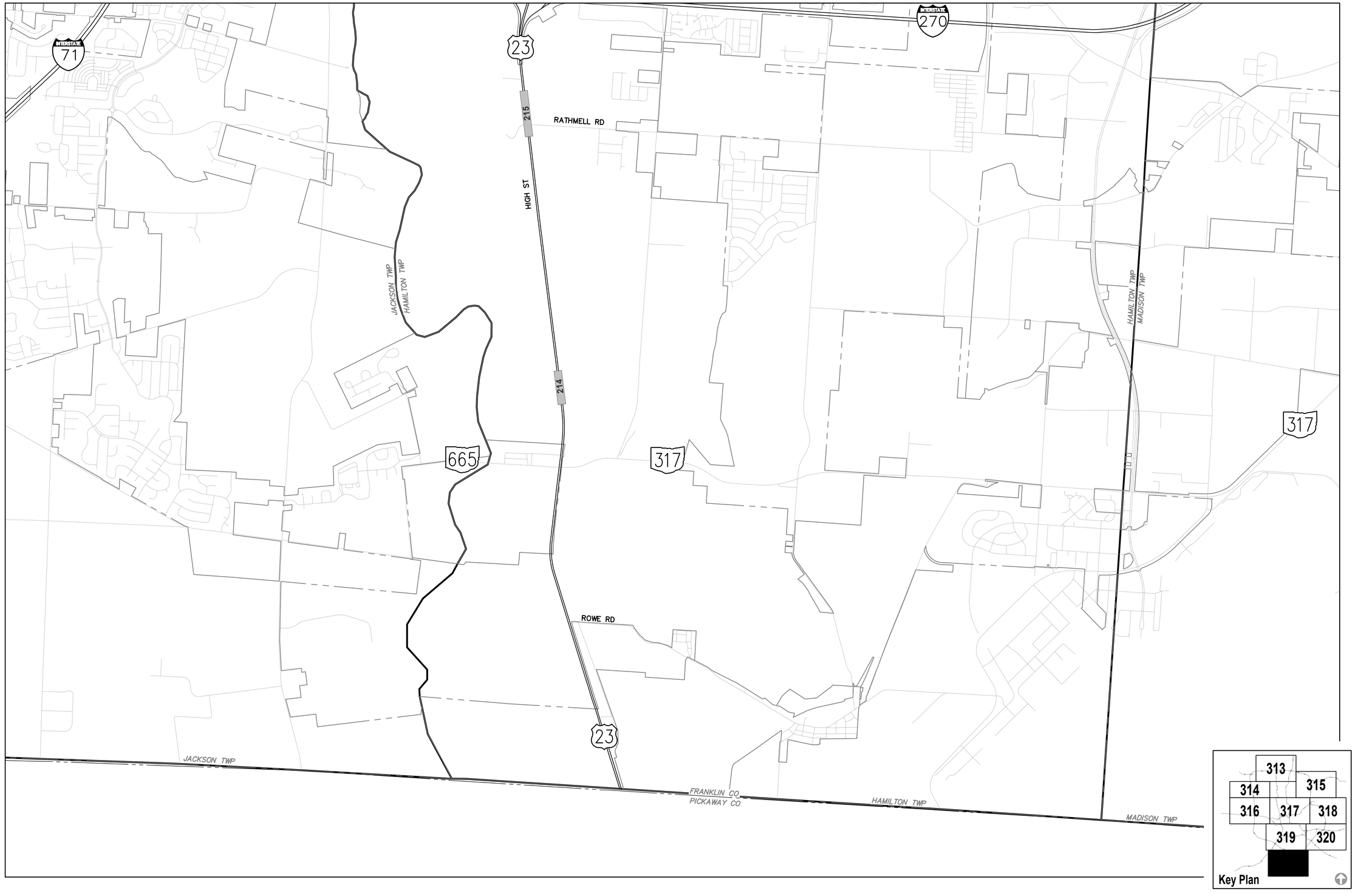
CIP: 540007-100012
PID NUMBER: 99733

INTERCONNECT PLAN SHEET INDEX
8 OF 9

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

320
915

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3378-E

0 1500 3000
HORIZONTAL SCALE IN FEET

CIP: 540007-100012
PID NUMBER: 99733

INTERCONNECT PLAN SHEET INDEX
9 OF 9

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

321
915

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INT #	PLAN SHEET #	INTERSECTION NAME	CORRIDOR	STATION
1068	187	INT# 1068: JACKSON PKE. AT SR-104	SR-104	STA. 312+50 TO 325+00
1069	186	INT# 1069: FRANK RD. AT I-71 NB	FRANK RD.	STA. 303+00 TO 312+50
1070	184	INT# 1070: FRANK RD. AT I-71 SB	FRANK RD.	STA. 289+00 TO 292+00
1077	573	INT# 1077: GREENLAWN AVE AT I-71 NB RAMPS	GREENLAWN AVE.	
1080	185	INT# 1080: FRANK RD. AT HARMON AVE.	FRANK RD.	STA. 292+00 TO 303+00
1112	183	INT# 1112: GANTZ RD. AT HARDY PKWY.	GANTZ RD.	
2025	249	INT# 2025: COURTRIGHT RD. AT LIVINGSTON AVE.	COURTRIGHT RD.	STA. 94+00 TO 110+50
2034	474	INT# 2034: MAIN ST. AT OHIO AVE.	OHIO AVE.	STA. 10+00 TO 18+00
2035	477	INT# 2035: CHAMPION AVE. AT MAIN ST.	CHAMPION AVE.	STA. 10+00 TO 18+00
2054	465	INT# 2054: FRONT ST. AT GREENLAWN AVE.	GREENLAWN AVE.	STA. 55+00 TO 60+00
2064	231	INT# 2064: DERING AVE. AT HIGH ST.	HIGH ST.	STA. 398+00 TO 409+00
2065	228	INT# 2065: HIGH ST. AT SOUTHGATE DR.	HIGH ST.	STA. 365+00 TO 376+00
2066	224	INT# 2066: HIGH ST. AT WILLIAMS RD.	HIGH ST.	STA. 322+00 TO 333+00
2067	222	INT# 2067: GREAT SOUTHERN BLVD. NORTH AT HIGH ST.	HIGH ST.	STA. 311+00 TO 322+00
2068	221	INT# 2068: GREAT SOUTHERN BLVD. SOUTH AT HIGH ST.	HIGH ST.	STA. 300+00 TO 311+00
2069	220	INT# 2069: HIGH ST. AT OBETZ RD.	HIGH ST.	STA. 289+00 TO 300+00
2070	214	INT# 2070: HIGH ST. AT SCIOTO DOWNS	HIGH ST.	STA. 129+00 TO 140+00
2105	474	INT# 2105: MOUND ST. AT OHIO AVE.	OHIO AVE.	STA. 10+00 TO 18+00
2106	477	INT# 2106: CHAMPION AVE. AT MOUND ST.	CHAMPION AVE.	STA. 10+00 TO 18+00
2109	473	INT# 2109: FULTON ST. AT OHIO AVE.	OHIO AVE.	STA. 2+00 TO 10+00
2110	476	INT# 2110: CHAMPION AVE. AT FULTON ST.	CHAMPION AVE.	STA. 2+00 TO 10+00
2117	243	INT# 2117: COURTRIGHT RD. AT PETZINGER RD.	COURTRIGHT RD.	STA. 40+00 TO 51+00
2140	193	INT# 2140: REFUGEE RD. AT WINCHESTER PIKE	REFUGEE RD.	STA. 3+00 TO 14+00
2147	248	INT# 2147: COURTRIGHT RD. AT ROSWELL DR.	COURTRIGHT RD.	STA. 83+00 TO 94+00
2148	245	INT# 2148: COURTRIGHT RD. AT GROVES RD.	COURTRIGHT RD.	STA. 51+00 TO 62+00
2149	199	INT# 2149: ASKINS RD. / COURTRIGHT RD. AT REFUGEE RD.	REFUGEE RD.	STA. 58+00 TO 69+00
2150	237	INT# 2150: DUNDEE AVE. AT HAMILTON RD.	HAMILTON RD.	STA. 287+00 TO 295+00
2151	235	INT# 2151: HAMILTON RD. AT I-70 EB	HAMILTON RD.	STA. 265+00 TO 276+00
2152	236	INT# 2152: HAMILTON RD. AT I-70 WB	HAMILTON RD.	STA. 276+00 TO 287+00
2153	233	INT# 2153: GROVES RD. AT HAMILTON RD.	HAMILTON RD.	STA. 243+00 TO 254+00
2159	202	INT# 2159: EASTLAND FIVE AT REFUGEE RD.	REFUGEE RD.	STA. 89+00 TO 100+50
2160	203	INT# 2160: HAMILTON RD. AT REFUGEE RD.	REFUGEE RD.	STA. 100+50 TO 112+00
2182	215	INT# 2182: HIGH ST. AT RATHMELL RD.	HIGH ST.	STA. 217+00 TO 228+00
2184	192	INT# 2184: STATE ROUTE 104 / REFUGEE RD. AT US-33 OFF RAMPS	STATE ROUTE 104 / REFUGEE RD.	STA. 574+00 TO 3+00
2200	240	INT# 2200: COURTRIGHT RD. AT KIMBERLY PKWY.	COURTRIGHT RD.	STA. 12+00 TO 21+00
2206	222	INT# 2206: HIGH ST. AT HIGHVIEW BLVD.	HIGH ST.	STA. 311+00 TO 322+00
2215	229	INT# 2215: ALCOTT RD. AT HIGH ST.	HIGH ST.	STA. 376+00 TO 387+00
3040	450	INT# 3040: FOURTH ST. AT HUDSON ST.	FOURTH ST.	STA. 164+00 TO 169+00
3048	459	INT# 3048: INDIANOLA AVE. AT WEBER RD.	WEBER RD.	STA. 26+00 TO 37+00
3050	458	INT# 3050: CALUMET ST. AT WEBER RD.	WEBER RD.	STA. 15+00 TO 26+00
3094	479	INT# 3094: LEONARD AVE. AT ST CLAIR AVE.	LEONARD AVE.	STA. 3+00 TO 12+00
3095	482	INT# 3095: CHAMPION AVE. / JOYCE AVE. AT LEONARD AVE.	LEONARD AVE.	STA. 33+00 TO 44+00
3097	485	INT# 3097: LEONARD AVE. AT TAYLOR AVE.	LEONARD AVE.	STA. 54+00 TO 65+00
3098	491	INT# 3098: FIFTH AVE. AT LEONARD AVE.	FIFTH AVE.	STA. 263+00 TO 268+00
3118	279	INT# 3118: BLENDON POND DR. / LITTLE TURTLE WAY AT DUBLIN GRANVILLE RD.	DUBLIN GRANVILLE RD.	STA. 0+00 TO 9+00
3121	522	INT# 3121: MCCUTHCEON RD. AT STELZER RD.	STELZER RD.	STA. 186+00 TO 197+50
3122	493	INT# 3122: FIFTH AVE. AT JOYCE AVE.	FIFTH AVE.	STA. 232+00 TO 243+00
3138	497	INT# 3138: AGLER RD. / CASSADY AVE. AT SUNBURY RD.	SUNBURY RD.	STA. 191+00 TO 201+00
3139	499	INT# 3139: INNIS RD. / MCCUTCHEON RD. AT SUNBURY RD.	SUNBURY RD.	STA. 212+00 TO 222+00
3140	507	INT# 3140: AGLER RD. AT CASSADY AVE.	AGLER RD.	STA. 8+00 TO 19+00
3169	436	INT# 3169: FIRST AVE. AT FOURTH ST.	FOURTH ST.	STA. 39+00 TO 46+00
3170	437	INT# 3170: FOURTH ST. AT SECOND AVE.	FOURTH ST.	STA. 46+00 TO 54+00
3171	440	INT# 3171: FIFTH ST. AT FOURTH ST.	FOURTH ST.	STA. 64+50 TO 75+00
3172	441	INT# 3172: FOURTH ST. AT SEVENTH AVE.	FOURTH ST.	STA. 75+00 TO 86+00
3173	442	INT# 3173: ELEVENTH AVE. AT FOURTH ST.	FOURTH ST.	STA. 86+00 TO 95+00
3174	443	INT# 3174: CHITTENDEN AVE. AT FOURTH ST.	FOURTH ST.	STA. 95+00 TO 102+00
3176	444	INT# 3176: FOURTH ST. AT SEVENTEENTH AVE.	FOURTH ST.	STA. 102+00 TO 119+00
3178	448	INT# 3178: FOURTH ST. AT WYANDOTTE AVE.	FOURTH ST.	STA. 147+00 TO 153+00
3180	454	INT# 3180: ELEVENTH AVE. AT GRANT AVE.	ELEVENTH AVE.	STA. 23+50 TO 33+00
3181	422	INT# 3181: SUMMIT ST. AT WARREN ST.	SUMMIT ST.	STA. 13+00 TO 18+00
3182	423	INT# 3182: FIRST AVE. AT SUMMIT ST.	SUMMIT ST.	STA. 18+00 TO 29+00
3183	424	INT# 3183: SECOND AVE. AT SUMMIT ST.	SUMMIT ST.	STA. 29+00 TO 37+00
3184	427	INT# 3184: FIFTH AVE. AT SUMMIT ST.	SUMMIT ST.	STA. 48+00 TO 59+00
3185	428	INT# 3185: SEVENTH AVE. AT SUMMIT ST.	SUMMIT ST.	STA. 59+00 TO 70+00
3186	429	INT# 3186: ELEVENTH AVE. AT SUMMIT ST.	SUMMIT ST.	STA. 70+00 TO 78+00
3187	430	INT# 3187: CHITTENDEN AVE. AT SUMMIT ST.	SUMMIT ST.	STA. 78+00 TO 89+00
3188	430	INT# 3188: SUMMIT ST. AT TWELFTH AVE.	SUMMIT ST.	STA. 78+00 TO 89+00
3189	432	INT# 3189: FIFTEENTH AVE. AT SUMMIT ST.	SUMMIT ST.	STA. 89+00 TO 100+00
3190	433	INT# 3190: SEVENTEENTH AVE. AT SUMMIT ST.	SUMMIT ST.	STA. 100+00 TO 111+00
3191	434	INT# 3191: LANE AVE. AT SUMMIT ST.	SUMMIT ST.	STA. 111+00 TO 122+00
3194	452	INT# 3194: INDIANOLA AVE. AT SEVENTH AVE.	SEVENTH AVE.	STA. 6+00 TO 11+00
3195	455	INT# 3195: FIFTEENTH AVE. AT INDIANOLA AVE.	FIFTEENTH AVE.	STA. 11+00 TO 18+00
3196	456	INT# 3196: INDIANOLA AVE. AT LANE AVE.	LANE AVE.	STA. 141+50 TO 147+50

INT #	PLAN SHEET #	INTERSECTION NAME	CORRIDOR	STATION
3207	487	INT# 3207: I-670 WB AT LEONARD AVE.	LEONARD AVE.	STA. 74+00 TO 82+00
3209	557	INT# 3209: MORSE RD. AT SUNBURY RD.	SUNBURY RD.	STA. 312+00 TO 323+00
3210	283	INT# 3210: DUBLIN GRANVILLE RD. AT HAMILTON RD. W.	DUBLIN GRANVILLE RD.	STA. 42+00 TO 53+00
3211	397	INT# 3211: I-71 NB AT POLARIS PKWY.	POLARIS PKWY.	STA. 153+00 TO 163+00
3213	408	INT# 3213: GEMINI PLACE AT LYRA DR.	GEMINI PLACE	STA. 145+00 TO 156+00
3214	409	INT# 3214: GEMINI PLACE AT I-71 SB	GEMINI PLACE	STA. 156+00 TO 167+00
3215	409	INT# 3215: GEMINI PLACE AT I-71 NB	GEMINI PLACE	STA. 156+00 TO 167+00
3216	281	INT# 3216: DUBLIN GRANVILLE RD. AT ULRY RD.	DUBLIN GRANVILLE RD.	STA. 20+00 TO 31+00
3217	406	INT# 3217: GEMINI PLACE AT SOLSTICE PKWY.	GEMINI PLACE	STA. 121+00 TO 132+00
3219	383	INT# 3219: CHASE BANK DR. AT SANCUS BLVD.	SANCUS BLVD.	STA. 267+00 TO 278+00
3220	525	INT# 3220: MONTCLAIR DR. AT STELZER RD.	STELZER RD.	STA. 219+00 TO 230+00
3221	525	INT# 3221: MORSE CROSSING AT STELZER RD.	STELZER RD.	STA. 219+00 TO 230+00
3222	265	INT# 3222: BROADVIEW DR. / CHESTNUT HILL DR. AT HAMILTON RD.	HAMILTON RD.	STA. 722+00 TO 733+00
3223	487	INT# 3223: I-670 EB AT LEONARD AVE.	LEONARD AVE.	STA. 74+00 TO 82+00
3224	399	INT# 3224: ORION PL. AT POLARIS PKWY.	POLARIS PKWY.	STA. 163+00 TO 174+00
3228	532	INT# 3228: MORSE RD. AT STELZER RD.	STELZER RD.	STA. 279+00 TO 287+00
3229	539	INT# 3229: EASTON WAY AT STELZER RD.	EASTON WAY	STA. 52+00 TO 63+00
3230	540	INT# 3230: EASTON WAY AT I-270 NB	EASTON WAY	STA. 63+00 TO 77+45
3232	390	INT# 3232: POLARIS PKWY. AT SANCUS BLVD.	POLARIS PKWY.	STA. 89+00 TO 100+00
3233	390	INT# 3233: CAPELLA DR. AT POLARIS PKWY.	POLARIS PKWY.	STA. 89+00 TO 100+00
3234	389	INT# 3234: GEMINI PLACE AT POLARIS PKWY.	POLARIS PKWY.	STA. 79+00 TO 89+00
3235	384	INT# 3235: CHASE BANK NORTH / KROGER AT SANCUS BLVD.	SANCUS BLVD.	STA. 278+00 TO 287+00
3236	387	INT# 3236: OLD STATE RD. AT POLARIS PKWY.	POLARIS PKWY.	STA. 57+00 TO 68+00
3237	546	INT# 3237: MORSE CROSSING AT MORSE RD.	MORSE CROSSING	STA. 88+00 TO 93+25
3238	545	INT# 3238: MORSE CROSSING AT SETON ST.	MORSE CROSSING	STA. 81+00 TO 88+00
3239	501	INT# 3239: BOYLESTON BLVD. AT INNIS RD.	INNIS RD.	STA. 40+00 TO 51+00
3240	275	INT# 3240: HAMILTON RD. AT OLD DUBLIN GRANVILLE RD.	HAMILTON RD.	STA. 817+00 TO 828+00
3241	535	INT# 3241: EASTON WAY AT MORSE CROSSING	EASTON WAY	STA. 21+00 TO 30+00
3242	257	INT# 3242: COOPER RD. AT WESTERVILLE RD.	WESTERVILLE RD.	STA. 268+00 TO 279+00
3243	382	INT# 3243: LAZELLE RD. AT SANCUS BLVD.	SANCUS BLVD.	STA. 262+00 TO 267+00
3244	543	INT# 3244: GRAMERCY ST. AT MORSE CROSSING	MORSE CROSSING	STA. 59+50 TO 70+00
3245	394	INT# 3245: POLARIS PKWY. AT POLARIS TOWNE CENTRE EAST	POLARIS PKWY.	STA. 121+00 TO 132+00
3246	392	INT# 3246: POLARIS PKWY. AT POLARIS TOWNE CENTRE WEST	POLARIS PKWY.	STA. 110+00 TO 121+00
3247	277	INT# 3247: HAMILTON RD. AT SR-161 WB	HAMILTON RD.	STA. 837+00 TO 846+00
3248	264	INT# 3248: HAMILTON RD. AT MORSE RD.	HAMILTON RD.	STA. 711+00 TO 722+00
3249	263	INT# 3249: KOHL'S AND STONE RIDGE PL. AT MORSE RD.	MORSE RD.	STA. 423+00 TO 429+75
3250	536	INT# 3250: EASTON SQUARE PL. AT EASTON WAY	EASTON WAY	STA. 30+00 TO 41+00
3251	536	INT# 3251: EASTON LOOP W. AT EASTON WAY	EASTON WAY	STA. 30+00 TO 41+00
3252	295	INT# 3252: CENTRAL COLLEGE RD. AT NEW ALBANY RD. W.	NEW ALBANY RD. W.	STA. 14+00 TO 22+00
3253	292	INT# 3253: NEW ALBANY RD. AT NEW ALBANY RD. E.	NEW ALBANY RD. E.	STA. 1+00 TO 4+00
3254	537	INT# 3254: EASTON LOOP E. AT EASTON WAY	EASTON WAY	STA. 41+00 TO 52+00
3255	395	INT# 3255: LYRA DR. AT POLARIS PKWY.	POLARIS PKWY.	STA. 132+00 TO 143+00
3256	561	INT# 3256: SUNBURY RD. AT WATT RD.	SUNBURY RD.	STA. 367+00 TO 378+00
3257	288	INT# 3257: NEW ALBANY RD. AT SR-161 EB	NEW ALBANY RD.	STA. 2+00 TO 13+00
3258	289	INT# 3258: NEW ALBANY RD. AT SR-161 WB	NEW ALBANY RD.	STA. 13+00 TO 24+00
3259	529	INT# 3259: COLLIERY AVE. AT STELZER RD.	STELZER RD.	STA. 250+00 TO 261+00
3261	267	INT# 3261: HAMILTON RD. AT THOMPSON RD.	HAMILTON RD.	STA. 744+00 TO 755+00
3262	270	INT# 3262: HAMILTON RD. AT MENEREY LN. / PRESERVE BLVD.	HAMILTON RD.	STA. 766+00 TO 780+00
3264	251	INT# 3264: BROAD ST. AT WAGGONER RD.	WAGGONER RD.	STA. 1018+00 TO 1029+00
3266	509	INT# 3266: AGLER RD. AT CITYGATE DR.	AGLER RD.	STA. 30+00 TO 41+00
3268	548	INT# 3268: EASTON LOOP E. AT GRAMERCY ST.	EASTON LOOP E.	STA. 23+00 TO 29+00
3269	549	INT# 3269: EASTON LOOP E. AT WORTH AVE.	EASTON LOOP E.	STA. 29+00 TO 35+00
3270	553	INT# 3270: EASTON LOOP W. AT GRAMERCY ST.	EASTON LOOP W.	STA. 22+00 TO 29+00
3271	531	INT# 3271: STELZER RD. AT WORTH AVE.	STELZER RD.	STA. 271+00 TO 279+00
3272	534	INT# 3272: EASTON WAY AT SUNBURY RD.	EASTON WAY	STA. 0+00 TO 10+00
3273	559	INT# 3273: STELZER RD. AT SUNBURY RD.	SUNBURY RD.	STA. 334+00 TO 345+00
3275	542	INT# 3275: EASTON COMMONS AT MORSE CROSSING	MORSE CROSSING	STA. 43+00 TO 57+00
3276	527	INT# 3276: EASTON OVAL / EASTON COMMONS AT STELZER RD.	STELZER RD.	STA. 230+00 TO 241+00
3277	400	INT# 3277: POLARIS NEIGHBORHOOD CENTER AT POLARIS PKWY.	POLARIS PKWY.	STA. 174+00 TO 182+00
3280	530	INT# 3280: ALSTON ST. AT STELZER RD.	STELZER RD.	STA. 261+00 TO 271+00
3281	276	INT# 3281: HAMILTON RD. AT SR-161 EB	HAMILTON RD.	STA. 828+00 TO 837+00
3283	284	INT# 3283: CENTRAL BLVD. AT DUBLIN GRANVILLE RD.	DUBLIN GRANVILLE RD.	STA. 53+00 TO 63+00
3293	266	INT# 3293: CHILMARK DR. AT HAMILTON RD.	HAMILTON RD.	STA. 733+00 TO 744+00
3294	291	INT# 3294: NEW ALBANY RD. E. AT WALTON PKWY.	NEW ALBANY RD. E.	STA. 4+00 TO 11+00
3295	293	INT# 3295: GIANT EAGLE AT NEW ALBANY RD. W.	NEW ALBANY RD. W.	STA. 1+00 TO 5+00
3298	517	INT# 3298: AGLER RD. AT STELZER RD.	STELZER RD.	STA. 142+00 TO 153+00
3299	521	INT# 3299: GOVERNORS CLUB BLVD. / MIDDLEMORE DR. AT STELZER RD.	STELZER RD.	STA. 175+00 TO 186+00
3300	287	INT# 3300: CENTRAL COLLEGE RD. AT ULRY RD.	ULRY RD.	STA. 82+00 TO 87+00
3303	255	INT# 3303: CHAPEL STONE RD. AT WAGGONER RD.	WAGGONER RD.	STA. 1061+00 TO 1068+00
3304	515	INT# 3304: CITYGATE DR. AT STELZER RD.	STELZER RD.	STA 120+00 TO 131+00
3305	523	INT# 3305: EASTON SQUARE PL. AT STELZER RD.	STELZER RD.	STA. 197+50 TO 209+00
3308	401	INT# 3308: OLDE WORTHINGTON RD. AT POLARIS PKWY.	POLARIS PKWY.	STA. 182+00 TO 190+00
3311	410	INT# 3311: IKEA WAY AT ORION PL.	IKEA WAY	STA. 167+00 TO 177+00
3312	412	INT# 3312: IKEA WAY AT ROAD A	IKEA WAY	STA. 177+00 TO 188+00
3313	414	INT# 3313: IKEA WAY AT WORTHINGTON RD.	IKEA WAY	STA. 199+00 TO 208+00

J:\Jobs\63721 CTSS Phase E\TECHPROD\Sheets\Index\CTSS_PhE_Index-List-placeholder.dwg ~ INDEX LIST 1 OF 2 (VOL II) layout ~ last saved by: skogant! 09/05/2018 05:19pm ~ printed 09/12/2018 09:29am PSLTS: 0 LTS: 30 CAS: 1" = 1'

CIP: 540007–100012
PID NUMBER: 99733

INDEX LIST
FOR PLAN SHEETS SET 1 OF 2

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

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INT #	PLAN SHEET #	INTERSECTION NAME	CORRIDOR	STATION
3814	447	INT# 3814: FOURTH ST. AT NORTHWOOD AVE.	FOURTH ST.	STA. 136+00 TO 147+00
4124	156	INT# 4124: LANE AVE. AT RIVERSIDE DR.	RIVERSIDE DR.	STA. 63+00 TO 71+00
4132	149	INT# 4132: DUBLIN RD. AT STELLA CT.	DUBLIN RD.	STA. 80+00 TO 90+00
4140	90	INT# 4140: HILLIARD ROME RD. AT RENNER RD.	RENNER RD.	STA. 75+00 TO 86+00
4146	374	INT# 4146: CAMPUS VIEW BLVD. AT HIGH ST.	CAMPUS VIEW BLVD.	STA. 5+00 TO 15+00
4148	353	INT# 4148: HARD RD. AT SMOKY ROW RD.	HARD RD.	STA. 163+00 TO 174+00
4149	145	INT# 4149: DUBLIN RD. AT ROBERTS RD.	DUBLIN RD.	STA. 223+00 TO 234+00
4150	129	INT# 4150: ROBERTS RD. AT WILSON RD.	ROBERTS RD.	STA. 117+00 TO 128+00
4151	128	INT# 4151: I-270 NB AT ROBERTS RD.	ROBERTS RD.	STA. 106+00 TO 117+00
4152	127	INT# 4152: 1-270 SB AT ROBERTS RD.	ROBERTS RD.	STA. 95+00 TO 106+00
4153	127	INT# 4153: ROBERTS RD. AT WESTBELT DR.	ROBERTS RD.	STA. 95+00 TO 106+00
4168	141	INT# 4168: FIFTH AVE. AT MCKINLEY AVE.	MCKINLEY AVE.	STA. 178+00 TO 185+00
4172	378	INT# 4172: FLINT RD. AT HIGH ST.	FLINT RD.	STA. 0+00 TO 5+00
4178	347	INT# 4178: HARD RD. AT SAWMILL RD.	HARD RD.	STA. 98+00 TO 109+00
4181	121	INT# 4181: ROBERTS RD. AT WALCUTT CT.	ROBERTS RD.	STA. 42+00 TO 53+00
4182	118	INT# 4182: HILLIARD ROME RD. AT ROBERTS RD.	ROBERTS RD.	STA. 9+00 TO 20+00
4193	138	INT# 4193: FISHER RD. AT MCKINLEY AVE.	MCKINLEY AVE.	STA. 141+00 TO 156+00
4198	356	INT# 4198: HARD RD. AT WORTHINGTON KILBOURNE HS	HARD RD.	STA. 194+00 TO 205+00
4199	108	INT# 4199: HILLIARD ROME RD. AT MEIJER STORE DR.	HILLIARD ROME RD.	STA. 116+00 TO 127+00
4204	371	INT# 4204: OLENTANGY RIVER RD. / MASON PL. AT SR-315	SR-315	STA. 666+00 TO 677+00
4207	359	INT# 4207: HARD RD. AT LINWORTH RD.	HARD RD.	STA. 227+00 TO 238+00
4208	116	INT# 4208: HILLIARD ROME RD. AT SILVERHORN CENTER DR.	HILLIARD ROME RD.	STA. 185+00 TO 196+00
4210	376	INT# 4210: CAMPUS VIEW BLVD. AT CROSSWOODS DR. / HUNTINGTON PARK	CAMPUS VIEW BLVD.	STA. 19+00 TO 30+00
4212	375	INT# 4212: CAMPUS VIEW BLVD. AT HIGH CROSS BLVD.	CAMPUS VIEW BLVD.	STA. 15+00 TO 19+00
4215	147	INT# 4215: DUBLIN RD. AT DUNLAVIN GLEN RD. / SCIOTO DARBY CREEK RD.	DUBLIN RD.	STA. 245+00 TO 256+00
4217	91	INT# 4217: RENNER RD. AT WESTPOINTE PLAZA DR.	RENNER RD.	STA. 86+00 TO 97+00
4219	363	INT# 4219: LINWORTH RD. AT PARSIPHONY PL. / WILSON BRIDGE RD.	LINWORTH RD.	STA. 0+00 TO 2+00
4224	123	INT# 4224: INTERNATIONAL ST. AT ROBERTS RD.	ROBERTS RD.	STA. 64+00 TO 75+00
4225	111	INT# 4225: HILLIARD ROME RD. AT WESTCHESTER WOODS BLVD.	HILLIARD ROME RD.	STA. 127+00 TO 138+00
4226	362	INT# 4226: OLENTANGY RIVER RD. AT WILSON BRIDGE RD.	WILSON BRIDGE RD.	STA. 16+50 TO 27+50
4227	349	INT# 4227: HARD RD. AT STANBURN RD.	HARD RD.	STA. 120+00 TO 131+00
4228	175	INT# 4228: CAMDEN PLACE DR. AT HAYDEN RUN RD.	HAYDEN RUN RD.	STA. 181+75 TO 192+00
4230	93	INT# 4230: RENNER RD. / TRABUE RD. AT WALCUTT CT.	RENNER RD. / TRABUE RD.	STA. 108+00 TO 30+00
4233	105	INT# 4233: HILLIARD ROME RD. AT I-70 EB	HILLIARD ROME RD.	STA. 84+00 TO 95+00
4234	105	INT# 4234: FISHER RD./FEDER RD. AT HILLIARD ROME RD.	HILLIARD ROME RD.	STA. 84+00 TO 95+00
4239	114	INT# 4239: HILLIARD ROME RD. AT NIKE DR.	HILLIARD ROME RD.	STA. 161+00 TO 172+00
4240	112	INT# 4240: GIANT EAGLE AT HILLIARD ROME RD.	HILLIARD ROME RD.	STA. 138+00 TO 150+00
4241	354	INT# 4241: HARD RD. AT SADDLE RUN	HARD RD.	STA. 174+00 TO 185+00
4243	350	INT# 4243: FOXBORO LN. AT HARD RD.	HARD RD.	STA. 131+00 TO 142+00
4249	176	INT# 4249: DEXTER FALLS RD. AT HAYDEN RUN RD.	HAYDEN RUN RD.	STA. 192+00 TO 203+00
4252	160	INT# 4252: BOW FALLS BLVD. / LEPPERT RD. AT HAYDEN RUN RD.	HAYDEN RUN RD.	STA. 38+00 TO 49+00
4256	113	INT# 4256: HILLIARD ROME RD. AT TANGLEWOOD PARK BLVD.	HILLIARD ROME RD.	STA. 150+00 TO 161+00
4257	88	INT# 4257: RENNER RD. AT TANGLEWOOD PARK BLVD.	RENNER RD.	STA. 64+00 TO 75+00
4258	174	INT# 4258: EDWARDS FARMS RD. AT HAYDEN RUN RD.	HAYDEN RUN RD.	STA. 170+50 TO 181+75
4259	159	INT# 4259: HAYDEN RUN BLVD./SPRING RIVER AVE. AT HAYDEN RUN RD.	HAYDEN RUN RD.	STA. 29+00 TO 38+00
4262	356	INT# 4262: HARD RD. AT MCCORD MIDDLE SCHOOL	HARD RD.	STA. 194+00 TO 205+00
4266	107	INT# 4266: HILLIARD ROME RD. AT I-70 WB	HILLIARD ROME RD.	STA. 105+00 TO 113+50
6253	154	INT# 6253: CAMBRIDGE BLVD./ TRABUE RD. AT RIVERSIDE DR.	RIVERSIDE DR.	STA. 41+00 TO 52+00
6700	152	INT# 6700: DUBLIN RD. / RIVERSIDE DR. AT FIFTH AVE.	DUBLIN RD. / RIVERSIDE DR.	STA. 112+00 TO 4+00
6801	369	INT# 6801: OLENTANGY RIVER RD. AT SR-315	SR-315	STA. 645+00 TO 656+00
6802	372	INT# 6802: CLUBVIEW BLVD. AT OLENTANGY RIVER RD.	OLENTANGY RIVER RD.	STA. 677+00 TO 685+00
SIG4015	506	INT# SIG4015: AGLER RD. AT SUNBURY RD. & SUNBURY DR.	AGLER RD.	STA. 0+00 TO 8+00
SIG4120	133	INT# SIG4120: FISHER RD. AT HAGUE AVE.	FISHER RD.	STA. 32+00 TO 43+00
SIG4725	380	INT# SIG4725: FLINT RD. AT PARK RD.	FLINT RD.	STA. 16+00 TO 25+00
SIG4765	75	INT# SIG4765: ALTON & DARBY CREEK RD. AT FEDER RD.	ALTON & DARBY CREEK RD.	STA. 16+00 TO 22+00
SIG4780	165	INT# SIG4780: AVERY RD. AT HAYDEN RUN RD.	HAYDEN RUN RD.	STA. 82+00 TO 93+00
SIG4805	85	INT# SIG4805: RENNER RD. AT SPINDLER RD.	RENNER RD.	STA. 33+00 TO 44+00
SIG4835	158	INT# SIG4835: COSGRAY RD. AT HAYDEN RUN RD.	HAYDEN RUN RD.	STA. 12+00 TO 29+00
SIG4870	66	INT# SIG4870: ROBERTS RD. AT WALKER RD.	WALKER RD.	STA. 32+00 TO 43+00
SIG4880	79	INT# SIG4880: ALTON & DARBY CREEK RD. AT RENNER RD.	ALTON & DARBY CREEK RD.	STA. 55+00 TO 66+00
SIG4885	80	INT# SIG4885: ALTON & DARBY CREEK RD. AT WALKER RD.	ALTON & DARBY CREEK RD.	STA. 66+00 TO 77+00
SPLICE-01	275	SPLICE-01: HAMILTON RD. AT OLD DUBLIN GRANVILLE RD.	HAMILTON RD.	STA. 817+00 TO 828+00
SPLICE-02	513	SPLICE-02: OLE COUNTRY LN. AT STELZER RD.	STELZER RD.	STA. 103+00 TO 109+00
FCEO FACILITY	102	INT# FCEO FACILITY: FACILITY AT FISHER RD. (WEST MAINTENANCE)	FISHER RD. (WEST MAINTENANCE)	STA. 93+00 TO 104+00
SE_161_Sunbury	298	SE_161_Sunbury: SR-161 AT SUNBURY RD.	SR-161	STA. 858+00 TO 886+00
XXXX	104	INT# XXXX: HILLIARD & ROME RD. AT MENARDS	HILLIARD & ROME RD.	STA. 71+00 TO 84+00

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CIP: 540007–100012
PID NUMBER: 99733

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FOR PLAN SHEETS SET 2 OF 2

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

PRIMARY SHEET #	SECONDARY SHEET #	UTILITY CROSSING ID#	STATION	UTILITY TYPE/SIZE	TOP OF EXISTING UTILITY	EXISTING GROUND ELEVATION	BOTTOM OF PROPOSED ELEVATION	VERTICAL SEPARTION FEET	UTILITY REFERENCE PLAN OR OWNER
98		1	50+15, 37' LT	27" SANITARY	900.6 C	923.8 SURV	920.8	20.2	RP02705
98		2	50+21, 50' LT	36" WATER	916.0 C	919.6 SURV	917.0 *(+)	1.0	CTP0359_010
98		3	50+24, 58' LT	8" GAS	918.1 LEV A	920.7 SURV	916.3 *(-)	-1.8	COLUMBIA GAS B724800875
100		1	73+90, 43' LT	36" WATER	903.2 C	909.3 SURV	906.3	3.1	CTO0359_011
100		2	79+61, 33' RT	15" SANITARY	896.2 C	927.0 SURV	924.0	27.8	CC01370
101		1	85+10, 29' LT	12" STORM	918.7 C	920.3 SURV	916.0 *(-)	-2.7	SURVEY
101		2	88+87, 30' LT	TELECOMS	-	906.1 SURV	903.1	-	
101		3	89+19, 30' LT	2" GAS	900.5 LEV A	904.3 SURV	901.5 *(+)	1.0	COLUMBIA GAS B724800924
101		4	90+39, 42' LT	8" SANITARY	888.1 C	898.8 SURV	895.8	7.7	RP03219
101		5	90+70, 48' LT	SANITARY	888.8 C	896.9 SURV	893.9	5.1	CC11382_001
101		6	91+35, 53' LT	6" WATER	887.2 LEV A	896.0 SURV	893.0	5.8	P2824_05
101		7	91+85, 54' LT	12" SANITARY	887.0 C	897.3 SURV	894.3	7.3	WO-1029552
101		8	92+58, 53' LT	6" SANITARY	886.4 C	893.5 SURV	890.5	4.1	RP17411
101		9	92+74, 53' LT	GAS	887.6 LEV A	896.2 SURV	893.2	5.5	
102		1	94+48, 35' LT	38" STORM	893.5 C	893.5 SURV	888.5 *(-)	-5.0	E1091
102		2	94+84, 36' LT	10" WATER	887.0 LEV A	892.7 SURV	889.7	2.7	P0020_01
102		3	95+23, 45' LT	2" WATER	-	894.3 SURV	891.3	-	TAP ID 177195
102		4	95+46, 45' LT	4" WATER	891.5 C	893.9 SURV	892.5 *(+)	1.0	CTP0359
102		5	63+60, 45' LT	12" STORM	893.2 C	895.2 SURV	894.2 *(+)	1.0	SURVEY
102		6	98+23, 37' LT	8" SANITARY	879.8 C	896.0 SURV	893.0	13.2	RP09141
102		7	98+49, 35' LT	1" GAS	892.7 LEV A	895.6 SURV	893.7 *(+)	1.0	
102		8	99+69, 39' LT	1" GAS	890.9 LEV A	895.0 SURV	892.0	1.1	
102		9	101+21, 46' LT	10" SANITARY	876.7 C	894.1 SURV	891.1	14.4	CC06702, CC15437
102		10	101+44, 56' LT	36" WATER	887.5 C	893.7 SURV	890.7	3.2	CTP0359_012
102		11	101+45, 78' LT	8" SANITARY	876.3 C	892.6 SURV	889.6	13.3	CC06702
105	563	1	93+11, 38' RT	LIGHTING	-	941.2 FG	938.2	-	
105	563	2	93+13, 62' LT	LIGHTING	-	942.4 FG	939.4	-	
106		1	98+88, 121' RT	LIGHTING	-	930.0 S	927.0	-	
106		2	99+90, 123' RT	24" STORM	924.0 C	930.1 S	927.1	3.1	
133		1	41+36, 124' LT	LIGHTING	-	816.1 FG	813.1	-	
134		1	45+18, 63' LT	TELECOMS	-	790.5 SURV	787.5	-	
141		1	183+69, 25' LT	TRAFFIC	-	782.9 SURV	779.9	-	
141		2	183+69, 26' LT	ELECTRIC	-	782.9 SURV	779.9	-	
145		1	232+40, 18' RT	TELECOMS	-	850.0 FG	847.0	-	AT&T
147		1	254+36, 35' RT	18" STORM	850.0 C	851.0 SURV	847.0 *(-)	-3.0	E01270
155		1	57+60, 34' LT	CABLE TV	-	780.9 SURV	777.9	-	SURVEY
155		2	57+61, 34' LT	ELECTRIC	-	780.9 SURV	777.9	-	SURVEY
155		3	57+94, 34' LT	ELECTRIC	-	781.4 SURV	778.4	-	SURVEY
155		4	57+96, 34' LT	CABLE TV	-	781.4 SURV	778.4	-	SURVEY
155		5	58+92, 37' LT	2" FIBER OPTIC	779.5 LEV A	781.6 SURV	778.4 *(-)	-1.1	SURVEY
155		6	62+86, 37' LT	8" WATER	781.6 C	785.7 SURV	782.7	1.2	WL2001-07_004
156		1	63+89, 45' LT	2" FIBER OPTIC	783.3 LEV A	786.2 SURV	784.3 *(+)	1.0	SURVEY
156		2	65+60, 52' LT	TRAFFIC	-	787.0 SURV	784.0	-	SURVEY
156		3	65+84, 60' LT	ELECTRIC	-	786.7 SURV	783.7	-	SURVEY
156		4	65+84, 60' LT	CABLE TV	-	786.7 SURV	783.7	-	SURVEY
156		5	65+85, 61' LT	ELECTRIC	-	786.7 SURV	783.7	-	SURVEY
156		6	65+85, 61' LT	CABLE TV	-	786.7 SURV	783.7	-	SURVEY
156		7	65+86, 64' LT	TRAFFIC	-	786.5 SURV	783.5	-	SURVEY
160		1	43+88, 46' LT	TRAFFIC	-	941.2 SURV	938.2	-	SURVEY
160		2	44+38, 37' LT	TELECOMS	-	940.9 SURV	937.9	-	SURVEY
160		3	44+39, 36' LT	UNKNOWN	-	940.9 SURV	937.9	-	SURVEY
160		4	45+07, 26' LT	2" WATER	933.8 C	940.9 SURV	937.9	4.1	E02300
160		5	45+08, 26' LT	TRAFFIC	-	940.8 SURV	937.8	-	SURVEY
160		6	45+38, 25' LT	4" GAS	931.7 C	940.3 SURV	937.3	-	COLUMBIA GAS B715701099
160		7	45+53, 26' LT	TELECOMS	-	940.3 SURV	937.3	-	SURVEY
160		8	46+67, 27' LT	6" PETROLEUM	931.5 C	938.5 SURV	935.5	4.0	MARATHON PIPELINE/EO2300
160		9	47+71, 27' LT	6" WATER	932.5 C	938.0 SURV	935.0	2.5	WL2006-28_007
160		10	48+77, 26' LT	18" STORM	935.4 C	937.6 SURV	936.4 *(+)	1.0	E02300
161		1	54+74, 26' LT	15" STORM	931.9 C	937.2 SURV	934.2	2.3	E02300
161		2	59+49, 19' LT	10" SANITARY	920.7 C	938.1 SURV	935.1	14.4	RP11621
162		1	61+06, 16' LT	15" STORM	927.6 C	938.0 FG	935.0	7.4	CC14092
165		1	86+31, 50' RT	6" GAS	918.8 LEV A	922.1 SURV	919.8 *(+)	1.0	COLUMBIA GAS B801200166
165		2	86+32, 47' RT	TELECOMS	-	922.0 SURV	919.0	-	SURVEY
165		3	86+33, 45' RT	12" STORM	916.3 C	922.0 SURV	919.0	2.7	SURVEY
165		4	86+35, 42' RT	TELECOMS	-	921.9 SURV	918.9	-	SURVEY
165		5	86+40, 31' RT	FIBER OPTIC	908.5 LEV B	921.5 SURV	918.5	10.0	SURVEY
165		6	88+02, 17' RT	12" STORM	921.6 C	924.2 SURV	922.6 *(+)	1.0	SURVEY
165		7	89+36, 16' RT	FIBER OPTIC	920.8 LEV A	927.1 SURV	924.1	3.3	SURVEY
178		1	283+21, 112' RT	6" STORM (FUTURE)	923.5 C	925.4 S	921.8 *(-)	1.0	FRA-70-3.41
178		2	284+46, 109' RT	27" STORM	921.8 C	923.8 S	922.8 *(+)	1.0	FRA-70-3.41
178		3	286+85, 141' RT	LIGHTING (FUTURE)	-	923.2 S	920.2	-	FRA-70-3.41
178		4	290+71, 129' RT	6" STORM (FUTURE)	919.1 C	921.2 S	917.4 *(-)	1.0	FRA-70-3.41

PRIMARY SHEET #	SECONDARY SHEET #	UTILITY CROSSING ID#	STATION	UTILITY TYPE/SIZE	TOP OF EXISTING UTILITY	EXISTING GROUND ELEVATION	BOTTOM OF PROPOSED ELEVATION	VERTICAL SEPARTION FEET	UTILITY REFERENCE PLAN OR OWNER
178		5	291+91, 129' RT	15" STORM (FUTURE)	915.6 C	920.6 S	917.6	2.0	FRA-70-3.41
178		6	292+18, 129' RT	FIBER OPTIC	911.1 LEV A	920.7 SURV	917.7	6.5	COLUMBUS FIBERNET
178		7	292+45, 128' RT	24" WATER	911.3 C	920.3 S	917.3	6.0	CTP0446_012
178		8	292+56, 128' RT	TELECOMS	-	920.2 S	917.2	-	AT&T
178		9	292+88, 127' RT	16" GAS	913.1 LEV A	920.6 SURV	917.6	4.4	COLUMBIA GAS
178		10	294+75, 124' RT	TELECOMS	-	919.3 S	916.3	-	AT&T
178		11	294+92, 123' RT	TELECOMS	-	919.2 S	916.2	-	AT&T
178		12	295+71, 122' RT	6" STORM (FUTURE)	916.3 C	918.7 S	914.6 *(-)	1.0	FRA-70-3.41
178		13	300+71, 114' RT	6" STORM (FUTURE)	913.6 C	916.0 S	911.9 *(-)	1.0	FRA-70-3.41
178		14	301+70, 113' RT	15" STORM	911.4 C	915.6 S	912.6	1.2	FRA-70-3.41
179		1	305+71, 109'RT	6" STORM (FUTURE)	910.9 C	913.3 S	909.2 *(-)	1.0	FRA-70-3.41
179		2	307+21, 108' RT	15" STORM (FUTURE)	909.1 C	912.5 S	910.1 *(+)	1.0	FRA-70-3.41
179		3	310+71, 109' RT	6" STORM (FUTURE)	908.0 C	910.3 S	906.3 *(-)	1.0	FRA-70-3.41
179		4	313+29, 109' RT	18" STORM	904.2 C	909.5 S	906.5	2.3	FRA-70-3.41
179		5	313+45, 109' RT	6" STORM (FUTURE)	907.0 C	909.5 S	905.3 *(-)	1.0	FRA-70-3.41
179		6	317+70, 109' RT	6" STORM (FUTURE)	909.1 C	910.2 S	907.2 *(-)	1.2	FRA-70-3.41
180		1	345+19, 116' RT	LIGHTING (FUTURE)	-	907.5 S	904.5	-	
180		2	347+78, 118' RT	LIGHTING (FUTURE)	-	902.5 S	899.5	-	
180		3	347+86, 118' RT	LIGHTING (ABAN)	-	902.4 S	899.4	-	
180		4	348+98, 119' RT	LIGHTING (ABAN)	-	901.7 S	898.7	-	
180		5	351+09, 134' RT	LIGHTING (FUTURE)	-	899.4 S	896.4	-	
180		6	351+44, 136' RT	15" STORM (FUTURE)	897.5 C	900.2 S	898.5 *(+)	1.0	FRA-70-3.41
180		7	352+12, 141' RT	LIGHTING (ABAN)	-	899.7 S	896.7	-	
180		8	353+65, 108' RT	LIGHTING	-	899.4 S	896.4	-	
180		9	356+38, 128' RT	60" STORM	885.4 C	891.6 FG	888.6	3.2	FRA-70-3.41
181		1	362+35, 145' RT	42" STORM	879.2 C	882.9 FG	880.2 *(+)	1.0	FRA-70-3.41
181		2	363+27, 146' RT	LIGHTING	-	881.7 FG	878.7	-	
181	565	3	364+33, 100' RT	15" STORM	878.5 C	881.5 FG	879.5 *(+)	1.0	FRA-70-3.41
181	565	4	366+93, 162' RT	LIGHTING	-	880.0 FG	877.0	-	
186	209, 571	1	305+64, 62' LT	120" SANITARY	691.2 C	700.0 FG	697.0	5.8	CC13074
187		1	317+08, 70' RT	108" SANITARY	690.3 C	708.5 FG	705.5	15.2	RP01044
187		2	318+02, 66' RT	240" COMBINED	554.0 C	712.6 FG	709.6	155.6	CC15684
189		1	332+69, 109' RT	TELECOMS	-	708.5 FG	705.5	-	AT&T
189		2	338+35, 67' RT	8" WATER	10.0 BG	708.6 FG	705.6	-	FRA-104-8.04_040
189		3	340+25, 71' RT	TELECOMS	-	706.0 FG	703.0	-	AT&T
189		4	341+05, 72' RT	16" SANITARY (ABAN)	-	707.3 FG	704.3	-	C00512 (ABAN PER FRA-104-8.73)
190		1	351+75, 93' RT	16" SANITARY (ABAN)	-	705.4 FG	702.4	-	C00512 (ABAN PER FRA-104-8.73)
190		2	352+20, 92' RT	TELECOMS	-	706.1 FG	703.1	-	AT&T
190		3	352+47, 48' RT	LIGHTING	-	708.3 FG	705.3	-	
190		4	357+19, 44' RT	18" STORM	708.8 C	712.0 FG	709.8 *(+)	1.0	FRA-104-8.73
190	578	7	359+15, 40' RT	8" SANITARY (ABAN)	-	714.0 FG	711.0	-	CC0952 (ABAN PER FRA-104-8.73)
202		1	89+88, 60' LT	4" ELECTRIC	755.8 LEV A	759.4 SURV	756.8 *(+)	1.0	
202		2	89+88, 64' LT	ELECTRIC	-	758.5 SURV	755.5	-	
202		3	89+91, 66' LT	ELECTRIC	-	758.8 SURV	755.8	-	
202		4	89+93, 60' LT	TRAFFIC	-	759.2 SURV	756.2	-	
202		5	89+98, 60' LT	GAS	LEV A PENDING	756.0 SURV	753.0	-	
202		6	90+00, 60' LT	ELECTRIC	-	759.5 SURV	756.5	-	
202		7	90+02, 60' LT	TRAFFIC	-	759.6 SURV	756.6	-	
202		8	91+28, 51' LT	ELECTRIC	-	759.1 SURV	756.1	-	
202		9	95+14, 49' LT	ELECTRIC	-	757.2 SURV	754.2	-	
202		10	96+20, 48' LT	12" WATER	752.0 S	757.2 SURV	754.2	2.2	WL1966-53_004
202		11	97+27, 54' LT	ELECTRIC	-	756.3 SURV	753.3	-	
202		12	97+82, 62' LT	ELECTRIC	-	756.0 SURV	753.0	-	
202		13	97+93, 61' LT	8" GAS	752.0 LEV A	756.0 SURV	753.0	1.0	B801200189
203		1	101+12, 60' LT	90" STORM	739.8 C	749.2 SURV	746.2	6.4	FRA-270-18.15S
203		2	103+04, 60' LT	15" STORM	736.9 C	744.4 SURV	741.4	4.5	FRA-270-18.15S
203		3	106+65, 41' LT	12" STORM	745.9 C	751.1 SURV	748.1	2.2	FRA-270-18.15S
209	186, 571	1	305+64, 62' LT	120" SANITARY	691.2 C	700.0 FG	697.0	5.8	CC13074
212	573	1	761+62, 143' RT	LIGHTING	-	707.8 FG	704.8	-	
212	573	2	761+62, 145' RT	LIGHTING	-	707.2 FG	704.2	-	
212	573	3	761+60, 158' RT	24" STORM	700.7 C	704.0 FG	701.7 *(+)	1.0	RP11200
218		1	270+45, 107' LT	12" WATER	687.3 LEV A	690.8 SURV	688.3 *(+)	1.0	CTP0600_014
218		2	273+60, 56' LT	LIGHTING	-	699.2 FG	696.2	-	
218		3	273+84, 50' LT	LIGHTING	-	700.0 FG	697.0	-	
235		1	271+58, 78' LT	LIGHTING	-	794.4 FG	791.4	-	
235		2	275+25, 83' LT	LIGHTING	-	768.0 FG	765.0	-	
236	581	1	277+84, 66' LT	15" STORM (ABAN)	-	782.4 FG	779.4	-	FRA-317-2.72 (FRA-70-21.33)
277	587	4	843+24, 92' LT	15" STORM	964.5 C	974.4 FG	971.4	6.9	FRA-161-16.75
277	303, 587	5	841+16, 76' LT	42" STORM	961.2 C	970.4 FG	967.4	6.2	FRA-161-16.75
277	587	6	843+08, 64' LT	TELECOMS	-	974.7 FG	971.7	-	
277	587	7	843+08, 63' LT	TRAFFIC	-	974.2 FG	971.2	-	
277	587	8	843+10, 57' LT	LIGHTING	-	975.4 FG	972.4	-	

FG: SURFACE ELEVATION DETERMINED BY FRANKLIN COUNTY GIS, ACCURACY OF ±0.5'
BG: ELEVATION BELOW GRADE
SURV: SURFACE ELEVATION DETERMINED BY SURVEY
LEVA: FIELD VERIFIED ELEVATION, LEVEL A SUE
LEVB: FIELD VERIFIED ELEVATION, LEVEL B SUE
LEVC: FIELD VERIFIED ELEVATION, LEVEL C SUE
S: ELEVATION SCALED FROM PLANS
C: ELEVATION CALCULATED USING INVERT FROM COC DEPT OF PUBLIC WORKS GIS DATABASE
UND: ELEVATIONS COULD NOT BE DETERMINED FROM RECORD PLANS AND WILL BE SHOWN AFTER THE FIELD SUE INVESTIGATION
–: VARYING ELEVATIONS. DEPTHS ARE UNKNOWN
*(+): PROPOSED CONDUIT HAS BEEN ADJUSTED ABOVE THE TOP OF EXISTING UTILITY TO MEET MINIMUM VERTICAL CLEARANCE REQUIREMENT OF 1.0'
*(–): PROPOSED CONDUIT HAS BEEN ADJUSTED BELOW THE BOTTOM OF EXISTING UTILITY TO MEET MINIMUM VERTICAL CLEARANCE REQUIREMENT OF 1.0'
LEVA PENDING: LEVEL A SUE ELEVATION PENDING

IF THE VERTICAL SEPARATION IS LESS THAN ONE FOOT (1') OR IF THE ELEVATION IS NOT SHOWN OR IS LISTED AS UND, THE CONTRACTOR SHALL EXPOSE THE EXISTING UTILITY AND ADJUST THE PROPOSED CONDUIT DEPTH TO 18"–60" TO MEET VERTICAL CLEARANCE REQUIREMENTS BY DIRECTION OF THE CITY OF COLUMBUS REPRESENTATIVE.

3378-E

CIP: 540007–100012
PID NUMBER: 99733

UTILITY CROSSING INDEX
1 OF 3

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

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J:\Jobs\63721 CTSS Phase E\TECHPROD\Sheets\Index\CTSS_PhE_JUC_Index.dwg – UTILITY_CROSSINGS (VOL II) layout ~ last saved by: gburch 08/30/2018 10:34am ~ printed 09/12/2018 09:30am PSLTS: 1 LTS: 1 CAS: 1" = 1'

PRIMARY SHEET #	SECONDARY SHEET #	UTILITY CROSSING ID#	STATION	UTILITY TYPE/SIZE	TOP OF EXISTING UTILITY	EXISTING GROUND ELEVATION	BOTTOM OF PROPOSED ELEVATION	VERTICAL SEPARTION FEET	UTILITY REFERENCE PLAN OR OWNER
277	303, 587	9	843+57, 93' RT	TRAFFIC	-	975.3 FG	972.3	-	
277	303, 587	10	843+58, 96' RT	TRAFFIC	-	975.1 FG	972.1	-	
297	585	1	1615+21, 217' LT	TRAFFIC	-	848.0 FG	845.0	-	
300		1	915+82, 78' LT	60" STORM	906.9 C	914.3 S	911.3	4.4	FRA-161-25.90
300		2	916+15, 79' LT	ELECTRIC	-	915.0 S	912.0	-	FRA-161-25.90
300		3	917+13, 82' LT	TELECOMS	-	917.6 S	914.6	-	FRA-161-25.90
300		4	917+17, 82' LT	TELECOMS	-	917.7 S	914.7	-	FRA-161-25.90
300		5	917+31, 83' LT	15" STORM	913.3 C	919.9 S	916.9	3.6	FRA-161-25.90
300		6	929+55, 80' LT	48" STORM	927.2 C	931.7 FG	928.7	1.5	FRA-161-16.75_077
300		7	934+03, 72' LT	36" STORM	931.0 C	936.7 FG	933.7	2.7	FRA-161-16.75_078
300		8	938+64, 61' LT	18" STORM	936.0 C	939.0 FG	937.0 *(+)	1.0	FRA-161-16.75_078
301		1	946+02, 66' LT	TELECOMS	-	947.9 FG	944.9	-	AT&T
301		2	946+36, 67' LT	TELECOMS	-	947.9 FG	944.9	-	AT&T
301		3	947+40, 67' LT	24" WATER	940.0 C	948.3 FG	945.3	5.3	CTP0461_011
301		4	947+59, 67' LT	21" STORM	945.9 C	948.2 FG	946.9 *(+)	1.0	FRA-161-16.75_079
301		5	959+89, 76' LT	15" SANITARY	960.6 C	972.0 FG	969.0	8.4	RP06418
303		1	972+58, 80' LT	15" STORM	978.4 C	988.2 FG	985.2	6.8	FRA-161-16.75
303	587	2	843+00, 273' LT	42" STORM	966.3 C	975.1 FG	972.1	5.8	FRA-161-16.75
303	277, 587	5	841+16, 76' LT	42" STORM	961.2 C	970.4 FG	967.4	6.2	FRA-161-16.75
303	277, 587	9	843+57, 93' RT	TRAFFIC	-	975.3 FG	972.3	-	
303	277, 587	10	843+58, 96' RT	TRAFFIC	-	975.1 FG	972.1	-	
303		11	996+91, 82' LT	LIGHTING	-	975.1 FG	972.1	-	
303		12	997+26, 117' LT	LIGHTING	-	972.2 FG	969.2	-	
304		1	999+26, 89' LT	54" STORM	957.3 C	965.7 FG	962.7	5.4	FRA-161-16.75
304		2	1009+15, 65' LT	24" SANITARY	943.8 C	961.4 FG	958.4	14.6	RP07485
304		3	1015+54, 62' LT	GAS	952.5 LEV A	964.5 SURV	961.5	9.0	COLUMBIA GAS B132
304		4	1021+59, 61' LT	15" STORM	959.9 C	966.0 FG	963.0	3.1	FRA-161-16.75
305		1	1031+55, 62' LT	21" STORM	961.5 C	969.5 FG	966.5	5.0	FRA-161-16.75
305		2	1040+03, 65' LT	TELECOMS	-	971.7 FG	968.7	-	AT&T
305		3	1041+61, 66' LT	16" WATER	961.0 C	971.7 FG	968.7	7.7	CTP0860_006
305		4	1043+31, 67' LT	24" STORM	966.0 C	972.0 FG	969.0	3.0	FRA-161-16.75
305		5	1052+57, 67' LT	15" STORM	973.3 C	981.5 FG	978.5	5.2	FRA-161-16.75
306		1	1061+57, 85' LT	15" STORM	982.5 C	988.1 FG	985.1	2.6	FRA-161-16.75
306		2	1062+24, 88' LT	30" SANITARY	961.5 C	988.0 FG	985.0	23.5	FRA-161-16.75
306		3	1068+35, 114' LT	20" GAS	985.8 C	990.7 FG	987.7	1.9	COLUMBIA GAS B100
306		4	1068+63, 119' LT	20" GAS	986.3 C	991.0 FG	988.0	1.7	COLUMBIA GAS B115
306		5	1071+34, 230' LT	60" STORM	991.5 C	996.1 FG	993.1	1.6	FRA-161-20.51
306	590	6	1076+26, 453' LT	TRAFFIC (FUTURE)	-	1010.1 FG	1007.1	-	
362		1	16+57, 30' LT	6" WATER	814.3 LEV A	818.4 SURV	815.4	1.1	WL1973-52_003
362		2	16+59, 30' LT	GAS	LEV A	818.0 SURV	815.0	-	COLUMBIA GAS B801200199
362		3	19+89, 19' LT	3" WATER	799.9 LEV A	805.9 SURV	802.9	3.0	WL1973-52_004
362		4	20+34, 18' LT	8" SANITARY	793.3 C	804.3 SURV	800.5 *(-)	7.2	RP03227
362		5	20+34, 18' LT	ELECTRIC	-	804.3 SURV	800.5 *(-)	-	
362		6	20+35, 18' LT	CABLE TV	-	804.2 SURV	800.5 *(-)	-	
362		7	20+36, 18' LT	2" GAS	801.7 LEV A	804.2 SURV	800.5 *(-)	-1.2	COLUMBIA GAS B801200199
362		8	20+61, 18' LT	36" STORM	797.5 C	803.7 SURV	800.7	3.2	D02646
362		9	21+16, 20' LT	TELECOMS	-	801.8 SURV	798.8	-	AT&T
362		10	21+67, 24' LT	TELECOMS	-	803.0 SURV	800.0	-	
362		11	21+83, 29' LT	FIBER OPTIC	793.8 LEV A	797.8 SURV	794.8	1.0	
362		12	22+97, 33' LT	12" STORM	-	797.1 SURV	794.1	-	SURVEY
362		13	23+16, 34' LT	2" GAS	792.0 LEV A	793.7 SURV	790.7	-1.3	COLUMBIA GAS B801200199
362		14	23+49, 34' LT	3" WATER	788.3 LEV A	793.0 SURV	790.0	1.7	WL1973-52_005
362		15	23+68, 33' LT	12" STORM	791.8 C	795.0 SURV	792.8 *(+)	1.0	
362		16	24+97, 36' LT	ELECTRIC	-	792.2 SURV	789.2	-	
363		1	15+04, 35' LT	CABLE TV	-	822.6 SURV	819.6	-	
363		2	15+67, 33' LT	9" FIBER OPTIC	815.9 LEV A	820.0 SURV	817.0	1.1	
363		3	15+83, 32' LT	TELECOMS	-	818.1 SURV	815.1	-	
368		1	640+81, 82' LT	TELECOMS	-	764.0 FG	761.0	-	
368		2	643+93, 81' LT	LIGHTING	-	759.5 FG	756.5	-	
368		3	644+71, 77' LT	27" SANITARY	753.6 C	762.4 FG	759.4	5.8	RP02711
369		1	649+54, 75' LT	LIGHTING	-	769.8 S	766.8	-	
369		2	649+74, 83' LT	LIGHTING	-	770.0 S	767.0	-	
369		3	649+87, 94' LT	42" STORM	766.3 C	770.5 S	767.5	1.2	FRA-CR61-4.34
397	420, 596	1	154+75, 104' RT	TELECOMS	-	911.9 S	908.9	-	
397	420, 596	2	154+78, 94' RT	TRAFFIC	-	911.7 S	908.7	-	
397	420, 596	3	154+84, 90' RT	12" STORM	905.9 C	911.8 S	908.8	2.9	FRA-71-28.64
397	420, 596	4	154+95, 95' RT	12" STORM	905.5 C	911.6 S	908.6	3.1	FRA-71-28.64
397	420, 596	5	155+79, 76' RT	TELECOMS	-	903.7 S	900.7	-	
399		1	163+32, 95' RT	8" SANITARY	871.5 C	882.7 S	879.7	8.2	RP07451
409	598	1	156+75, 72' LT	24" STORM	897.9 C	906.0 S	903.0	5.1	FRA-71-28.64
409	598	2	156+91, 74' LT	18" SANITARY	858.9 C	906.5 S	903.5	44.6	RP11928
409	598	3	158+25, 64' LT	TRAFFIC	-	909.0 S	906.0	-	

PRIMARY SHEET #	SECONDARY SHEET #	UTILITY CROSSING ID#	STATION	UTILITY TYPE/SIZE	TOP OF EXISTING UTILITY	EXISTING GROUND ELEVATION	BOTTOM OF PROPOSED ELEVATION	VERTICAL SEPARTION FEET	UTILITY REFERENCE PLAN OR OWNER
409	598	4	158+78, 58' RT	LIGHTING	-	910.0 S	907.0	-	
409	598	5	159+20, 120' RT	LIGHTING	-	903.0 S	900.0	-	
409	598	6	159+44, 129' RT	18" SANITARY	856.2 C	902.0 S	899.0	42.8	RP11928
409	598	7	159+82, 142' RT	8" SANITARY(ABAN)	878.3 C	902.0 S	899.0	20.7	RP09095(RP11928)
409	598	8	160+10, 59' RT	18" SANITARY(ABAN)	857.3 C	904.0 S	901.0	43.7	RP08314
409	598	9	160+33, 128' RT	18" SANITARY	856.1 C	901.0 S	898.0	41.9	RP08313
420	397, 596	1	154+75, 104' RT	TELECOMS	-	911.9 S	908.9	-	
420	397, 596	2	154+78, 94' RT	TRAFFIC	-	911.7 S	908.7	-	
420	397, 596	3	154+84, 90' RT	12" STORM	905.9 C	911.8 S	908.8	2.9	FRA-71-28.64
420	397, 596	4	154+95, 95' RT	12" STORM	905.5 C	911.6 S	908.6	3.1	FRA-71-28.64
420	397, 596	5	155+79, 76' RT	TELECOMS	-	903.7 S	900.7	-	
465		1	57+08, 2' LT	15" STORM	735.8 C	746.3 FG	743.3	7.5	RP01438
487		1	76+15, 54' RT	ELECTRIC	-	822.2 FG	819.2	-	
521		1	176+47, 49' LT	6" GAS	826.8 LEV A	830.7 SURV	827.8 *(+)	1.0	01643_019(COLUMBIA B801200216
521		2	176+48, 33' LT	TELECOMS	-	830.4 SURV	827.4	-	
521		3	176+51, 16' RT	48" WATER	826.3 LEV A	830.2 SURV	821.1 *(-)	1.0	CTP0182_009 (E01643_019)
521		4	179+67, 61' RT	WATER SERVICE	-	832.2 SURV	829.2	-	
521		5	181+06, 79' RT	ELECTRIC	-	833.7 SURV	830.7	-	
521		6	181+08, 79' RT	2" FIBER OPTIC	829.1 LEV A	834.1 SURV	831.1	1.9	
521		7	181+14, 78' RT	LIGHTING	-	833.5 SURV	830.5	-	
521		8	181+89, 66' RT	LIGHTING	-	833.5 SURV	830.5	-	
521		9	182+01, 64' RT	2" GAS	831.1 LEV A	833.9 SURV	832.1 *(+)	1.0	COLUMBIA GAS B801200216
525		1	226+91, 48' LT	TELECOMS	-	842.0 SURV	839.0	-	AT&T
525		2	227+03, 53' LT	6" GAS	836.2 LEV A	841.8 SURV	838.8	2.6	COLUMBIA GAS A805401191
527		1	236+15, 56' LT	6" GAS	841.2 LEV A	844.2 SURV	842.2 *(+)	1.0	
527		2	236+15, 62' LT	TELECOMS	-	844.2 SURV	841.2	-	AT&T
527		3	236+17, 64' LT	TELECOMS	-	844.2 SURV	841.2	-	AT&T
527		4	236+20, 67' LT	TRAFFIC	-	844.5 SURV	841.5	-	
527		5	236+28, 70' LT	FIBER OPTIC	840.8 LEV A	844.6 SURV	841.8 *(+)	1.0	
527		6	236+43, 71' LT	TRAFFIC	-	844.3 SURV	841.3	-	
527		7	236+44, 71' LT	TRAFFIC	-	844.3 SURV	841.3	-	
527		8	236+48, 70' LT	TRAFFIC	-	844.1 SURV	841.1	-	
531		1	273+46, 57' LT	ELECTRIC	-	855.8 SURV	852.8	-	
531		2	273+49, 63' LT	21" STORM	849.6 C	855.6 SURV	852.6	3.0	FRA-STELZER-ROAD
531		3	273+53, 74' LT	TRAFFIC	-	855.3 SURV	852.3	-	
531		4	273+54, 76' LT	ELECTRIC	-	855.3 SURV	852.3	-	
531		5	273+54, 76' LT	ELECTRIC	-	855.3 SURV	852.3	-	
531		6	273+59, 86' LT	LIGHTING	-	855.5 SURV	852.5	-	
539		1	248+12, 53' LT	48" WATER	843.9 LEV A	850.5 SURV	847.5	3.6	CTP0410_009
539		2	248+12, 54' LT	LIGHTING	-	850.5 SURV	847.5	-	
549		1	34+32, 50' RT	TRAFFIC		857.1 SURV	854.1	-	
549		2	34+38, 51' RT	TRAFFIC		857.1 SURV	854.1	-	
549		3	34+38, 51' RT	3" WATER	853.5 LEV A	857.6 SURV	854.6	1.1	P2655_06
563	105	1	93+11, 38' RT	LIGHTING	-	941.2 FG	938.2	-	
563	105	2	93+13, 62' LT	LIGHTING	-	942.4 FG	939.4	-	
565	181	3	364+33, 100' RT	15" STORM	878.5 C	881.5 FG	879.5 *(+)	1.0	FRA-70-3.41
565	181	4	366+93, 162' RT	LIGHTING	-	880.0 FG	877.0	-	
571	186, 209	1	305+64, 62' LT	120" SANITARY	691.2 C	700.0 FG	697.0	5.8	CC13074
573	212	1	761+62, 143' RT	LIGHTING	-	707.8 FG	704.8	-	
573	212	2	761+62, 145' RT	LIGHTING	-	707.2 FG	704.2	-	
573	212	3	761+60, 158' RT	24" STORM	700.7 C	704.0 FG	701.7 *(+)	1.0	RP11200
578	190	4	357+19, 44' RT	18" STORM	708.8 C	712.0 FG	709.8 *(+)	1.0	FRA-104-8.73
578		5	358+91, 172' LT	8"SANITARY(ABAN)	725.2 C	729.9 FG	726.9	1.7	CC0953
578		6	359+05, 155' LT	LIGHTING	-	729.4 FG	726.4	-	
578	190	7	359+15, 40' RT	8" SANITARY (ABAN)	-	714.0 FG	711.0	-	CC0952 (ABAN PER FRA-104-8.73)
578		8	359+95, 190' LT	ELECTRIC	-	734.0 FG	731.0	-	
581	236	1	277+84, 66' LT	15" STORM (ABAN)	-	782.4 FG	779.4	-	FRA-317-2.72 (FRA-70-21.33)
585	297	1	1615+21, 217' LT	TRAFFIC	-	848.0 FG	845.0	-	
587		2	843+00, 273' LT	42" STORM	966.3 C	975.1 FG	972.1	5.8	FRA-161-16.75
587		3	843+20, 174' LT	TELECOMS	-	974.1 FG	971.1	-	AT&T
587	277	4	843+24, 92' LT	15" STORM	964.5 C	974.4 FG	971.4	6.9	FRA-161-16.75
587	277, 303	5	841+16, 76' LT	42" STORM	961.2 C	970.4 FG	967.4	6.2	FRA-161-16.75
587	277	6	843+08, 64' LT	TELECOMS	-	974.7 FG	971.7	-	
587	277	7	843+08, 63' LT	TRAFFIC	-	974.2 FG	971.2	-	
587	277	8	843+10, 57' LT	42" STORM	961.6 C	973.3 FG	970.3	8.7	FRA-161-16.75
587	277, 303	9	843+57, 93' RT	TRAFFIC	-	975.3 FG	972.3	-	
587	277, 303	10	843+58, 96' RT	TRAFFIC	-	975.1 FG	972.1	-	
590	306	6	1076+26, 453' LT	TRAFFIC (FUTURE)	-	1010.1 FG	1007.1	-	
596	397, 420	1	154+75, 104' RT	TELECOMS	-	911.9 S	908.9	-	
596	397, 420	2	154+78, 94' RT	TRAFFIC	-	911.7 S	908.7	-	
596	397, 420	3	154+84, 90' RT	12" STORM	905.9 C	911.8 S	908.8	2.9	FRA-71-28.64
596	397, 420	4	154+95, 95' RT	12" STORM	905.5 C	911.6 S	908.6	3.1	FRA-71-28.64

FG: SURFACE ELEVATION DETERMINED BY FRANKLIN COUNTY GIS, ACCURACY OF ±0.5'
BG: ELEVATION BELOW GRADE
SURV: SURFACE ELEVATION DETERMINED BY SURVEY
LEVA: FIELD VERIFIED ELEVATION, LEVEL A SUE
LEVB: FIELD VERIFIED ELEVATION, LEVEL B SUE
LEVC: FIELD VERIFIED ELEVATION, LEVEL C SUE
S: ELEVATION SCALED FROM PLANS
C: ELEVATION CALCULATED USING INVERT FROM COC DEPT OF PUBLIC WORKS GIS DATABASE
UND: ELEVATIONS COULD NOT BE DETERMINED FROM RECORD PLANS AND WILL BE SHOWN AFTER THE FIELD SUE INVESTIGATION
–: VARYING ELEVATIONS. DEPTHS ARE UNKNOWN
*(+): PROPOSED CONDUIT HAS BEEN ADJUSTED ABOVE THE TOP OF EXISTING UTILITY TO MEET MINIMUM VERTICAL CLEARANCE REQUIREMENT OF 1.0'
*(–): PROPOSED CONDUIT HAS BEEN ADJUSTED BELOW THE BOTTOM OF EXISTING UTILITY TO MEET MINIMUM VERTICAL CLEARANCE REQUIREMENT OF 1.0'
LEVA PENDING: LEVEL A SUE ELEVATION PENDING

IF THE VERTICAL SEPARATION IS LESS THAN ONE FOOT (1') OR IF THE ELEVATION IS NOT SHOWN OR IS LISTED AS UND, THE CONTRACTOR SHALL EXPOSE THE EXISTING UTILITY AND ADJUST THE PROPOSED CONDUIT DEPTH TO 18"–60" TO MEET VERTICAL CLEARANCE REQUIREMENTS BY DIRECTION OF THE CITY OF COLUMBUS REPRESENTATIVE.

3378-E

CIP: 540007–100012
PID NUMBER: 99733

UTILITY CROSSING INDEX
2 OF 3

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

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PRIMARY SHEET #	SECONDARY SHEET #	UTILITY CROSSING ID#	STATION	UTILITY TYPE/SIZE	TOP OF EXISTING UTILITY	EXISTING GROUND ELEVATION	BOTTOM OF PROPOSED ELEVATION	VERTICAL SEPARTION FEET	UTILITY REFERENCE PLAN OR OWNER
596	397, 420	5	155+79, 76' RT	TELECOMS	-	903.7 S	900.7	-	
598	409	1	156+75, 72' LT	24" STORM	897.9 C	906.0 S	903.0	5.1	FRA-71-28.64
598	409	2	156+91, 74' LT	18" SANITARY	858.9 C	906.5 S	903.5	44.6	RP11928
598	409	3	158+25, 64' LT	TRAFFIC	-	909.0 S	906.0	-	
598	409	4	158+78, 58' RT	LIGHTING	-	910.0 S	907.0	-	RP09095
598	409	5	159+20, 120' RT	LIGHTING	-	903.0 S	900.0	-	RP08313
598	409	6	159+44, 129' RT	18" SANITARY	857.3 C	902.0 S	899.0	41.7	RP08314
598	409	7	159+82, 142' RT	8" SANITARY(ABAN)	878.3 C	902.0 S	899.0	20.7	RP09095(RP11928)
598	409	8	160+10, 59' RT	18" SANITARY(ABAN)	857.3 C	904.0 S	901.0	43.7	RP08314
598	409	9	160+33, 128' RT	18" SANITARY	856.1 C	901.0 S	898.0	41.9	RP08313
602	203	3	106+65, 41' LT	12" STORM	745.9 C	751.1 SURV	748.1	2.2	FRA-270-18.15S

FG: SURFACE ELEVATION DETERMINED BY FRANKLIN COUNTY GIS, ACCURACY OF ±0.5'
BG: ELEVATION BELOW GRADE
SURV: SURFACE ELEVATION DETERMINED BY SURVEY
LEVA: FIELD VERIFIED ELEVATION, LEVEL A SUE
LEVB: FIELD VERIFIED ELEVATION, LEVEL B SUE
LEVC: FIELD VERIFIED ELEVATION, LEVEL C SUE
S: ELEVATION SCALED FROM PLANS
C: ELEVATION CALCULATED USING INVERT FROM COC DEPT OF PUBLIC WORKS GIS DATABASE
UND: ELEVATIONS COULD NOT BE DETERMINED FROM RECORD PLANS AND WILL BE SHOWN AFTER THE FIELD SUE INVESTIGATION
–: VARYING ELEVATIONS. DEPTHS ARE UNKNOWN
*(+): PROPOSED CONDUIT HAS BEEN ADJUSTED ABOVE THE TOP OF EXISTING UTILITY TO MEET MINIMUM VERTICAL CLEARANCE REQUIREMENT OF 1.0'
*(–): PROPOSED CONDUIT HAS BEEN ADJUSTED BELOW THE BOTTOM OF EXISTING UTILITY TO MEET MINIMUM VERTICAL CLEARANCE REQUIREMENT OF 1.0'
LEVA PENDING: LEVEL A SUE ELEVATION PENDING

IF THE VERTICAL SEPARATION IS LESS THAN ONE FOOT (1') OR IF THE ELEVATION IS NOT SHOWN OR IS LISTED AS UND, THE CONTRACTOR SHALL EXPOSE THE EXISTING UTILITY AND ADJUST THE PROPOSED CONDUIT DEPTH TO 18"–60" TO MEET VERTICAL CLEARANCE REQUIREMENTS BY DIRECTION OF THE CITY OF COLUMBUS REPRESENTATIVE.

3378-E

CIP: 540007–100012
PID NUMBER: 99733

UTILITY CROSSING INDEX
3 OF 3

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

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915

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R3-1
S1



R3-2
S2



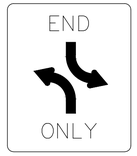
CM-R023.02
S3



R3-3
S4



R3-9B
S5



S6



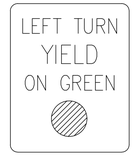
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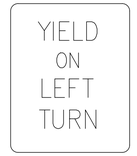
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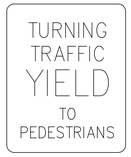
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S9



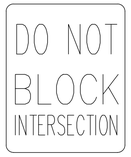
R10-12
S10



S10



S11



R10-7
S12



R5-1
S13



R6-2L
S14



R6-2R
S15



R6-7
S16



R6-6
S17



S18



R9-3a
S19



R3-5a
S20



R3-6R
S21



R3-6LU
S22



R3-17
S23



S24



R5-1A
S25



R5-2
S26



S27



D4-1
S28



D4-1
S29



D4-1
S30



R5-H2c
S31



R3-6L
S32



S33



S34



R3-4
S35



S36



R10-5
S37



S38



S39

S40

S41

S42

S43

S44

S45

S46

S47

S48

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R10-12
S52

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S56

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EXISTING OVERHEAD SIGNAGE SHOWN ON PLAN SHEETS

3378-E

CIP: 540007-100012
PID NUMBER: 99733

EXISTING OVERHEAD SIGNS

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

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LOCATION	SHEET NO.	202 EXISTING CONDUIT CLEANED, AS PER PLAN FT	202 REMOVAL, MISC.: REMOVE EXISTING AERIAL STANDOFF, POLE MOUNTED EACH	202 REMOVAL, MISC.: REMOVE EXISTING OVERHEAD EQUIPMENT EACH	202 REMOVAL, MISC.: REMOVE EXISTING WOOD POLE EACH	202 CONCRETE BARRIER REMOVED FT	202 WALK REMOVED SF	605 4" PIPE UNDERDRAIN EACH	608 8" CONCRETE WALK SF	609 CURB, STRAIGHT 18" FT	622 BARRIER, MISC.: MEDIAN BARRIER WALL FT	625 36" MEDIAN JUNCTION BOX EACH	625 BRACKET ARM, 30', AS PER PLAN EACH	625 CONDUIT, 2", AS PER PLAN FT	625 CONDUIT, 3", AS PER PLAN FT	625 CONDUIT, 4", AS PER PLAN FT	625 CONDUIT, CONCRETE ENCASED, 2-3", 725.05, AS PER PLAN FT	625 CONDUIT, CONCRETE ENCASED, 4-3", 725.05, AS PER PLAN FT	625 CONDUIT, JACKED OR DRILLED, 3", AS PER PLAN FT	625 CONDUIT, JACKED OR DRILLED, 4", AS PER PLAN FT
HARD RD.	352	6,272	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-
HARD RD.	357	4,315	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-
HARD RD.	361	4,976	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-
LINWORTH RD.	367	9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	444	-	1,380	-
OLENTANGY RIVER RD.	373	307	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,201	-	166	-
CAMPUS VIEW BLVD.	377	43	-	-	-	-	-	-	-	-	-	-	3	-	-	-	-	-	-	-
FLINT RD.	381	303	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	-	-	-
SANCUS BLVD.	386	2,836	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
POLARIS PKWY.	393	6,334	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
POLARIS PKWY.	398	4,305	-	-	-	-	-	-	-	-	-	-	-	47	534	-	43	-	229	-
POLARIS PKWY.	402	2,677	-	-	-	-	-	-	-	-	-	-	-	10	1 28	-	-	-	1 -	-
I-71	405	2,113	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GEMINI PL.	411	5,824	-	-	-	-	-	-	-	-	-	-	-	-	-	-	255	-	78	-
IKEA WAY	415	2,846	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
I-71	421	13,852	-	-	-	-	-	-	-	-	-	-	-	-	-	1,970	-	-	-	-
SUMMIT ST.	426	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SUMMIT ST.	431	184	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-
SUMMIT ST.	435	12	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-
FOURTH ST.	439	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FOURTH ST.	445	412	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-
FOURTH ST.	451	64	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SEVENTH AVE.	457	1,274	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
WEBER AVE.	460	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LONG ST.	466	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9	332	-
FOURTH ST.	472	2,958	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OHIO AVE.	475	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CHAMPION AVE.	478	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LEONARD AVE.	484	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LEONARD AVE.	489	899	-	-	-	-	-	-	-	-	-	-	-	-	-	-	587	-	112	-
LEONARD AVE.	492	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FIFTH AVE.	496	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SUNBURY RD.	500	241	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-
INNIS RD.	505	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AGLER RD.	512	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
STELZER RD.	520	7,157	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-
STELZER RD.	526	5,134	-	-	-	-	-	-	-	-	-	-	1	-	-	-	296	-	804	-
STELZER RD.	533	5,232	-	-	-	-	1 92	-	92	-	-	-	-	-	-	-	106	-	-	-
SUB TOTAL		**80,617**	**-**	**-**	**-**	**-**	**92**	**-**	**92**	**-**	**-**	**-**	**15**	**57**	**562**	**1,970**	**2,938**	**9**	**3,101**	**-**

1 REVISION 1.0 11-02-2018 **3378-E**

CIP: 540007-100012
PID NUMBER: 99733

SUB SUMMARY
VOLUME 2 – SHEET 1A

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

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LOCATION	SHEET NO.	625 CONDUIT, MISC.: 4" CONDUIT, FIBER-GLASS REINFORCED, ATTACHED TO STRUCTURE FT	625 CONDUIT, MISC.: CONDUIT RESTORATION FT	625 DISTRIBUTION CABLE, NO. 1 FT	625 DISTRIBUTION CABLE, NO. 2 FT	625 DISTRIBUTION CABLE, NO. 3 FT	625 DISTRIBUTION CABLE, NO. 3/0 FT	625 DISTRIBUTION CABLE, NO. 4 FT	625 DISTRIBUTION CABLE, NO. 6 FT	625 GROUND ROD EACH	625 POWER SERVICE, TYPE A, AS PER PLAN EACH	625 POWER SERVICE, TYPE B, AS PER PLAN EACH	625 POWER SERVICE, TYPE C, AS PER PLAN EACH	625 POWER SERVICE, TYPE D, AS PER PLAN EACH	625 POWER SERVICE, TYPE E, AS PER PLAN EACH	625 POWER SERVICE, TYPE F, AS PER PLAN EACH	625 POWER SERVICE, TYPE G, AS PER PLAN EACH	625 POWER SERVICE, TYPE H, AS PER PLAN EACH	625 POWER SERVICE, TYPE I, AS PER PLAN EACH	625 PULL BOX, 18", 725.06, AS PER PLAN EACH
HARD RD.	352	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HARD RD.	357	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HARD RD.	361	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LINWORTH RD.	367	618	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OLENTANGY RIVER RD.	373	56	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAMPUS VIEW BLVD.	377	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FLINT RD.	381	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SANCUS BLVD.	386	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
POLARIS PKWY.	393	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
POLARIS PKWY.	398	-	-	2,289	-	-	-	-	171	2	-	-	-	-	-	-	-	-	-	-
POLARIS PKWY.	402	-	-	⚠1 144	-	-	-	-	-	1	-	1	-	-	-	-	-	-	-	-
I-71	405	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GEMINI PL.	411	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IKEA WAY	415	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
I-71	421	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SUMMIT ST.	426	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SUMMIT ST.	431	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SUMMIT ST.	435	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FOURTH ST.	439	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FOURTH ST.	445	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FOURTH ST.	451	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SEVENTH AVE.	457	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
WEBER AVE.	460	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LONG ST.	466	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FOURTH ST.	472	-	2,068	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OHIO AVE.	475	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CHAMPION AVE.	478	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LEONARD AVE.	484	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LEONARD AVE.	489	424	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LEONARD AVE.	492	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FIFTH AVE.	496	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SUNBURY RD.	500	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
INNIS RD.	505	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AGLER RD.	512	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
STELZER RD.	520	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
STELZER RD.	526	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
STELZER RD.	533	-	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SUB TOTAL		**1,098**	**2,078**	**2,433**	**-**	**-**	**-**	**-**	**171**	**3**	**-**	**1**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**

⚠1 REVISION 1.0 11-02-2018 **3378-E**

CIP: 540007-100012
PID NUMBER: 99733

SUB SUMMARY
VOLUME 2 - SHEET 1B

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E - FINAL SUBMITTAL

J:\Jobs\6372I CTSS Phase E\TECHPROD\Sheets\CTSS_PhE_SUB_SUM_Volume2.dwg - VOLUME 2 - SHEET 2 OF 10 layout ~ last saved by: jbeans 11/05/2018 01:39pm ~ printed 11/06/2018 01:45pm PSLTS: 0 LTS: 30 CAS: 1" = 1'

LOCATION	SHEET NO.	625 PULL BOX, 18", 725.08, AS PER PLAN	625 PULL BOX, 24", 725.08	625 PULL BOX, CONCRETE 32", AS PER PLAN	625 PULL BOX, CONCRETE 48", AS PER PLAN	625 PULL BOX, MISC.: REFURBISH CONCRETE PULL BOX	625 PULL BOX, REMOVED, AS PER PLAN	625 TRENCH, 36" DEEP, AS PER PLAN	625 TRENCH IN PAVED AREA, AS PER PLAN	632 CONDUIT RISER, 2", 725.04, AS PER PLAN	632 CONDUIT RISER, 2", 725.051, AS PER PLAN	632 DOWN GUY	632 INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 144 STRAND	632 INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 24 STRAND	632 INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 288 STRAND	632 INTERCONNECT CABLE, MISC.: FIBER OPTIC DROP CABLE, 24 STRAND	632 INTERCONNECT CABLE, MISC.: FIBER OPTIC FUSION SPLICE	632 INTERCONNECT CABLE, MISC.: OVERLASH TO EXISTING INTERCONNECT	632 INTERCONNECT CABLE, MISC.: REMOVE EXISTING OVERHEAD INTERCONNECT	632 INTERCONNECT CABLE, MISC.: REMOVE EXISTING UNDERGROUND INTERCONNECT
		EACH	EACH	EACH	EACH	EACH	EACH	FT	FT	EACH	EACH	EACH	FT	FT	FT	FT	EACH	FT	FT	FT
HARD RD.	352	-	-	-	-	-	-	-	-	-	-	-	7,188	-	-	487	252	153	-	-
HARD RD.	357	-	-	-	-	-	-	-	-	-	-	-	5,101	-	-	626	96	-	-	-
HARD RD.	361	-	-	-	-	-	-	-	-	-	-	-	5,918	-	-	282	228	-	-	-
LINWORTH RD.	367	-	-	7	-	-	-	444	-	4	-	2	5,455	-	-	525	36	-	-	-
OLENTANGY RIVER RD.	373	-	-	5	-	-	-	1,201	-	-	-	-	5,650	-	-	946	264	-	-	-
CAMPUS VIEW BLVD.	377	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FLINT RD.	381	-	-	-	-	-	-	6	-	1	-	-	2,792	-	-	439	216	-	-	-
SANCUS BLVD.	386	-	-	-	-	-	-	-	-	-	-	-	3,214	-	-	552	60	-	-	-
POLARIS PKWY.	393	-	-	-	-	-	-	-	-	-	-	-	7,042	-	-	900	312	-	-	-
POLARIS PKWY.	398	4	-	-	-	-	-	1 624	-	-	-	-	4,915	-	-	326	48	-	-	-
POLARIS PKWY.	402	1	-	-	-	-	-	38	-	-	-	-	3,087	-	-	449	60	-	-	-
I-71	405	-	-	-	-	-	-	-	-	-	-	-	-	-	2,213	-	-	-	-	-
GEMINI PL.	411	-	-	1	-	11	-	255	-	-	-	-	7,054	-	507	841	108	-	-	-
IKEA WAY	415	-	-	-	-	-	-	-	-	-	-	-	3,828	-	-	288	48	-	-	-
I-71	421	-	-	1	-	-	-	985	-	-	-	-	-	-	17,289	-	-	-	-	-
SUMMIT ST.	426	-	-	-	-	-	-	-	-	2	-	-	3,641	-	-	748	348	79	-	-
SUMMIT ST.	431	-	-	-	-	-	-	-	-	2	-	-	5,759	-	-	1,720	816	67	893	-
SUMMIT ST.	435	-	-	-	-	-	-	-	-	2	-	-	3,802	439	-	809	96	-	3,068	-
FOURTH ST.	439	-	-	-	-	-	-	-	-	1	-	-	2,669	-	-	730	324	-	2,163	-
FOURTH ST.	445	-	-	-	-	-	-	-	-	4	-	2	7,228	-	-	1,516	696	2,228	1,217	-
FOURTH ST.	451	-	-	-	-	-	-	-	-	1	-	-	5,840	-	-	749	252	3,426	-	-
SEVENTH AVE.	457	-	-	-	-	-	-	-	-	2	-	-	2,211	855	-	579	180	296	1,262	-
WEBER AVE.	460	-	-	-	-	-	-	-	-	1	-	-	2,000	-	-	170	156	88	755	-
LONG ST.	466	-	-	-	1	-	-	9	-	-	-	-	-	-	-	-	468	158	-	-
FOURTH ST.	472	-	-	-	-	-	-	-	-	-	-	-	6,576	-	-	-	-	-	-	-
OHIO AVE.	475	-	-	-	-	-	-	-	-	-	-	-	1,348	-	-	170	204	-	-	-
CHAMPION AVE.	478	-	-	-	-	-	-	-	-	-	-	-	1,421	-	-	170	204	-	-	-
LEONARD AVE.	484	-	-	-	-	-	-	-	-	-	-	-	5,430	-	-	716	36	-	-	-
LEONARD AVE.	489	-	-	6	-	-	-	587	-	4	-	1	4,649	-	-	726	72	115	-	-
LEONARD AVE.	492	-	-	-	-	-	-	-	-	-	-	-	1,708	-	-	170	24	-	-	-
FIFTH AVE.	496	-	-	-	-	-	-	-	-	1	-	-	3,463	-	-	224	12	-	1,047	-
SUNBURY RD.	500	-	-	-	-	-	-	-	-	1	-	2	3,529	-	-	279	168	-	-	-
INNIS RD.	505	-	-	-	-	-	-	-	-	-	-	2	4,817	-	-	170	12	-	-	-
AGLER RD.	512	-	-	-	-	-	-	-	-	1	-	-	7,295	-	-	724	60	-	-	-
STELZER RD.	520	-	-	-	-	-	-	-	-	-	-	-	7,825	-	-	704	396	-	-	-
STELZER RD.	526	-	-	14	-	-	11	296	-	-	-	-	6,452	-	-	831	120	-	-	-
STELZER RD.	533	-	-	4	-	-	1	76	30	-	-	-	5,926	84	-	998	312	-	-	-
SUB TOTAL		**5**	**-**	**38**	**1**	**11**	**12**	**4,521**	**30**	**27**	**-**	**9**	**154,833**	**1,378**	**20,009**	**19,564**	**6,684**	**6,610**	**10,405**	**-**

1 REVISION 1.0 11-02-2018

3378-E

CIP: 540007-100012
PID NUMBER: 99733

SUB SUMMARY
VOLUME 2 – SHEET 1C

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

330
915

J:\Jobs\63721 CTSS Phase E\TECHPROD\Sheets\CTSS_PhE_SUB_SUM_Volume2.dwg ~ VOLUME 2 ~ SHEET 3 OF 10 layout ~ last saved by: jbeams 11/05/2018 01:39pm ~ printed 11/06/2018 01:46pm PSLTS: 0 LTS: 30 CAS: 1" = 1'

LOCATION	SHEET NO.	632 INTERCONNECT CABLE, MISC.: TERMINATION PANEL, 24 FIBER	632 INTERCONNECT, MISC.: CAT 5E CABLE, OUTDOOR RATED	632 INTERCONNECT, MISC.: DUAL PANEL ASSEMBLY, 24 FIBER, 1 RU, PRE-TERMINATED	632 INTERCONNECT, MISC.: PRE-TERMINATED FIBER OPTIC DROP CABLE, 144 STRAND, 150FT	632 INTERCONNECT, MISC.: PRE-TERMINATED FIBER OPTIC DROP CABLE, 144 STRAND, 475FT	632 INTERCONNECT, MISC.: PRE-TERMINATED FIBER OPTIC DROP CABLE, 24 STRAND, 150FT	632 INTERCONNECT, MISC.: PRE-TERMINATED FIBER OPTIC DROP CABLE, 24 STRAND, 475FT	632 INTERCONNECT, MISC.: SPLICE ENCLOSURE, CLAMSHELL, 144 SPLICE	632 INTERCONNECT, MISC.: SPLICE ENCLOSURE, CLAMSHELL, 288 SPLICE	632 INTERCONNECT, MISC.: SPLICE ENCLOSURE, DOME, 144 SPLICE	632 INTERCONNECT, MISC.: SPLICE ENCLOSURE, DOME, 800 SPLICE	632 INTERCONNECT, MISC.: TERMINATION PANEL, 144 FIBER, 4 RU	632 INTERCONNECT, MISC.: TERMINATION PANEL, 24 FIBER, 1 RU	632 INTERCONNECT, MISC.: TERMINATION PANEL, 288 FIBER, 4 RU	632 MESSENGER WIRE, 7 STRAND, 1/4" DIAMETER WITH ACCESSORIES, AS PER PLAN	632 SIGNALIZATION, MISC.: CCTV COMPOSITE CABLE	632 SIGNALIZATION, MISC.: CCTV IP-CAMERA SYSTEM	632 SIGNALIZATION, MISC.: CELLULAR ETHERNET COMMUNICATIONS UNIT	632 SPREAD SPECTRUM RADIO, AS PER PLAN
		EACH	FT	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	FT	FT	EACH	EACH	EACH
HARD RD.	352	3	-	-	-	-	-	-	-	2	-	-	-	-	-	143	452	1	-	-
HARD RD.	357	4	-	-	-	-	-	-	-	4	-	-	-	-	-	131	514	1	-	-
HARD RD.	361	2	-	-	-	-	-	-	-	1	-	-	-	-	-	276	362	1	-	-
LINWORTH RD.	367	2	-	-	-	-	-	-	-	2	-	-	-	-	-	3,241	55	1	-	-
OLENTANGY RIVER RD.	373	4	-	-	-	-	-	-	-	3	-	-	-	-	-	3,531	75	1	-	-
CAMPUS VIEW BLVD.	377	-	551	-	-	-	-	-	-	-	-	-	-	-	-	208	-	-	-	4
FLINT RD.	381	2	-	-	-	-	-	-	-	1	-	-	-	-	-	2,132	-	-	-	-
SANCUS BLVD.	386	3	-	-	-	-	-	-	-	3	-	-	-	-	-	-	-	-	-	-
POLARIS PKWY.	393	6	118	-	-	-	-	-	-	5	-	-	-	-	-	139	508	2	-	-
POLARIS PKWY.	398	2	108	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-
POLARIS PKWY.	402	3	-	-	-	-	-	-	-	3	-	-	-	-	-	-	355	1	-	-
I-71	405	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GEMINI PL.	411	5	-	-	-	-	-	-	-	5	-	-	-	-	-	-	77	1	-	-
IKEA WAY	415	2	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-
I-71	421	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SUMMIT ST.	426	3	-	-	-	-	-	-	-	2	-	1	-	-	-	3,287	-	-	-	-
SUMMIT ST.	431	8	-	-	-	-	-	-	-	4	-	1	-	-	-	4,700	426	2	-	-
SUMMIT ST.	435	4	-	-	-	-	-	-	-	3	-	-	-	-	-	3,349	266	1	-	-
FOURTH ST.	439	3	-	-	-	-	-	-	-	1	-	1	-	-	-	2,320	-	-	-	-
FOURTH ST.	445	7	-	-	-	-	-	-	-	3	-	2	-	-	-	3,519	542	2	-	-
FOURTH ST.	451	3	-	-	-	-	-	-	-	2	-	-	-	-	-	2,426	-	-	-	-
SEVENTH AVE.	457	3	-	-	-	-	-	-	-	3	-	-	-	-	-	1,541	-	-	-	-
WEBER AVE.	460	1	-	-	-	-	-	-	-	1	-	1	-	-	-	1,612	-	-	-	-
LONG ST.	466	-	-	-	-	4	-	-	-	-	-	-	-	-	2	-	-	-	-	-
FOURTH ST.	472	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OHIO AVE.	475	1	-	-	-	-	-	-	-	-	-	-	-	-	-	973	-	-	-	-
CHAMPION AVE.	478	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1,085	-	-	-	-
LEONARD AVE.	484	2	-	-	-	-	-	-	-	2	-	-	-	-	-	4,954	-	-	-	-
LEONARD AVE.	489	3	-	-	-	-	-	-	-	3	-	-	-	-	-	1,687	-	-	-	-
LEONARD AVE.	492	1	-	-	-	-	-	-	-	1	-	-	-	-	-	1,389	-	-	-	-
FIFTH AVE.	496	1	-	-	-	-	-	-	-	1	-	-	-	-	-	2,992	-	-	-	-
SUNBURY RD.	500	1	-	-	-	-	-	-	-	1	-	-	-	-	-	2,987	484	2	-	-
INNIS RD.	505	1	-	-	-	-	-	-	-	1	-	-	-	-	-	4,292	-	-	-	-
AGLER RD.	512	3	-	-	-	-	-	-	-	3	-	-	-	-	-	6,504	-	-	-	-
STELZER RD.	520	3	-	-	-	-	-	-	-	3	-	-	-	-	-	216	468	1	-	-
STELZER RD.	526	5	-	-	-	-	-	-	-	5	-	-	-	-	-	117	384	1	-	-
STELZER RD.	533	6	-	-	-	-	-	-	-	4	-	-	-	-	-	-	-	-	-	-
SUB TOTAL		**98**	**777**	**-**	**-**	**4**	**-**	**-**	**-**	**76**	**-**	**6**	**-**	**-**	**2**	**59,751**	**4,968**	**18**	**-**	**4**

J:\Jobs\63721 ctss phase e\TECHPROD\Sheets\CTSS_PhE_SUB_SUM_Volume2.dwg ~ VOLUME 2 ~ SHEET 4 OF 10 layout ~ last saved by: gburch 10/31/2018 10:40am ~ printed 10/31/2018 10:44am PSLTS: 0 LTS: 30 CAS: 1" = 1'

LOCATION	SHEET NO.	632	632	632	633	633	633	633	633	633	633	633	633						
		STRAIN POLE, DESIGN NO. 6	STRAIN POLE FOUNDATION, DESIGN NO. 6	WOOD POLE, CLASS 5, 35 FT	CABINET, GROUND MOUNTED, TYPE TS-2, AS PER PLAN	CABINET, POLE MOUNTED, TYPE TS-2, AS PER PLAN	CABINET, TYPE 334, AS PER PLAN	CONTROLLER ITEM, MISC.: COMMUNICATIONS NODE	CONTROLLER ITEM, MISC.: ETHERNET EXTENDER	CONTROLLER ITEM, MISC.: FIBER OPTIC ETHERNET TRANSCEIVER, SHORT RANGE	CONTROLLER ITEM, MISC.: INTERNAL ETHERNET MODULE	CONTROLLER ITEM, MISC.: LAYER 2 ETHERNET SWITCH	CONTROLLER ITEM, MISC.: LAYER 3 ETHERNET SWITCH, ENVIRONMENTALLY HARDENED	CONTROLLER UNIT, TYPE TS2/A2, AS PER PLAN						
		EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH						
HARD RD.	352	-	-	-	-	-	-	-	-	4	-	2	-	-						
HARD RD.	357	-	-	-	-	-	-	-	-	8	-	4	-	3						
HARD RD.	361	-	-	-	-	-	-	-	-	2	-	1	-	-						
LINWORTH RD.	367	-	-	4	-	-	-	-	-	4	-	2	-	2						
OLENTANGY RIVER RD.	373	-	-	-	-	-	-	-	-	6	3	3	-	-						
CAMPUS VIEW BLVD.	377	-	-	-	-	-	-	-	-	-	-	2	-	-						
FLINT RD.	381	-	-	-	-	-	-	-	-	2	-	1	-	1						
SANCUS BLVD.	386	-	-	-	-	-	-	-	-	6	-	3	-	-						
POLARIS PKWY.	393	-	-	-	-	-	-	-	-	10	-	5	-	-						
POLARIS PKWY.	398	-	-	-	-	-	-	-	-	4	-	3	-	-						
POLARIS PKWY.	402	-	-	-	-	-	-	-	-	6	-	3	-	-						
I-71	405	-	-	-	-	-	-	-	-	-	-	-	-	-						
GEMINI PL.	411	-	-	-	-	-	-	-	-	10	-	5	-	-						
IKEA WAY	415	-	-	-	-	-	-	-	-	4	-	2	-	-						
I-71	421	-	-	-	-	-	-	-	-	-	-	-	-	-						
SUMMIT ST.	426	-	-	-	-	-	-	-	-	4	-	2	-	2						
SUMMIT ST.	431	-	-	-	-	-	-	-	-	10	-	5	-	3						
SUMMIT ST.	435	-	-	-	-	-	-	-	-	6	-	3	-	1						
FOURTH ST.	439	-	-	-	-	-	-	-	-	4	-	2	-	2						
FOURTH ST.	445	-	-	-	-	-	-	-	-	10	-	5	-	4						
FOURTH ST.	451	-	-	-	-	-	-	-	-	4	-	2	-	2						
SEVENTH AVE.	457	-	-	-	-	-	-	-	-	6	-	3	-	2						
WEBER AVE.	460	-	-	-	-	-	-	-	-	2	-	1	-	1						
LONG ST.	466	-	-	-	-	-	1	-	-	-	-	-	-	-						
FOURTH ST.	472	-	-	-	-	-	-	-	-	-	-	-	-	-						
OHIO AVE.	475	-	-	-	-	-	-	-	-	-	-	-	-	-						
CHAMPION AVE.	478	-	-	-	-	-	-	-	-	-	-	-	-	-						
LEONARD AVE.	484	-	-	9	-	-	-	-	-	4	-	2	-	2						
LEONARD AVE.	489	-	-	5	-	-	-	-	-	6	-	3	-	3						
LEONARD AVE.	492	-	-	-	-	-	-	-	-	2	-	1	-	1						
FIFTH AVE.	496	-	-	-	-	-	-	-	-	2	-	1	-	1						
SUNBURY RD.	500	-	-	2	-	-	-	-	-	2	-	1	-	1						
INNIS RD.	505	-	-	1	-	-	-	-	-	2	-	1	-	1						
AGLER RD.	512	-	-	2	-	-	-	-	-	6	-	3	-	3						
STELZER RD.	520	-	-	-	-	-	-	-	-	4	-	2	-	2						
STELZER RD.	526	-	-	-	-	-	-	-	-	10	-	5	-	5						
STELZER RD.	533	-	-	-	-	-	-	-	-	8	-	4	-	4						
SUB TOTAL		-	-	23	-	-	1	-	-	158	3	82	-	46	-	-	-	-	-	-

3378-E

CIP: 540007–100012
PID NUMBER: 99733

SUB SUMMARY
VOLUME 2 – SHEET 1E

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

332
915

J:\Jobs\63721 ctss phase e\TECHPROD\Sheets\CTSS_PhE_SUB_SUM_Volume2.dwg ~ VOLUME 2 – SHEET 5 OF 10 layout ~ last saved by: gburch 10/31/2018 10:40am ~ printed 10/31/2018 10:44am PSLTS: 0 LTS: 30 CAS: 1" = 1'

LOCATION	SHEET NO.	202 EXISTING CONDUIT CLEANED, AS PER PLAN	202 REMOVAL, MISC.: REMOVE EXISTING AERIAL STANDOFF, POLE MOUNTED	202 REMOVAL, MISC.: REMOVE EXISTING OVERHEAD EQUIPMENT	202 REMOVAL, MISC.: REMOVE EXISTING WOOD POLE	202 CONCRETE BARRIER REMOVED	202 WALK REMOVED	605 4" PIPE UNDERDRAIN	608 8" CONCRETE WALK	609 CURB, STRAIGHT 18"	622 BARRIER, MISC.: MEDIAN BARRIER WALL	625 36" MEDIAN JUNCTION BOX	625 BRACKET ARM, 30', AS PER PLAN	625 CONDUIT, 2", AS PER PLAN	625 CONDUIT, 3", AS PER PLAN	625 CONDUIT, 4", AS PER PLAN	625 CONDUIT, CONCRETE ENCASED, 2-3", 725.05, AS PER PLAN	625 CONDUIT, CONCRETE ENCASED, 4-3", 725.05, AS PER PLAN	625 CONDUIT, JACKED OR DRILLED, 3", AS PER PLAN	625 CONDUIT, JACKED OR DRILLED, 4", AS PER PLAN
		FT	EACH	EACH	EACH	FT	SF	EACH	SF	FT	FT	EACH	EACH	FT	FT	FT	FT	FT	FT	FT
EASTON WAY	538	3,318	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-
EASTON WAY	541	2,908	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13	-	-	-
MORSE CROSSING	547	4,818	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EASTON LOOP E.	552	2,341	-	-	-	-	40	-	40	-	-	-	-	-	-	-	43	-	-	-
EASTON LOOP W.	556	2,314	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SUNBURY RD.	562	16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
I-70 @ HILLIARD-ROME	564	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14	-	-	-	-
I-70 @ I-270	566	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
I-270 @ ROBERTS	568	204	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
I-71 @ I-270	570	31	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
I-71 @ SR-104	572	-	-	-	-	-	-	-	-	-	-	-	-	22	630	20	-	-	-	-
I-71 @ GREENLAWN	574	480	-	-	-	-	-	-	-	-	-	-	-	32	-	102	-	-	-	-
I-71 @ GREENLAWN	575	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
I-270 @ HIGH	577	33	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SR-104 @ HIGH	579	-	-	-	-	-	-	-	-	-	-	-	-	83	117	16	57	-	434	-
SR-104 @ HIGH	580	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
I-70 @ HAMILTON	582	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
I-670 @ LEONARD	584	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
I-270 @ SR-161	586	-	-	-	-	-	-	-	-	-	-	-	-	102	-	40	-	-	-	-
SR-161 @ HAMILTON	588	-	-	-	-	-	-	-	-	-	-	-	-	32	393	140	-	-	-	-
SR-161 @ HAMILTON	589	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SR-161 @ NEW ALBANY	591	-	-	-	-	-	-	-	-	-	-	-	-	9	157	18	-	-	52	-
I-270 @ SR-315	593	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
I-270 @ I-71	595	11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
I-71 @ POLARIS	597	-	-	-	-	-	-	-	-	-	-	-	-	-	-	70	-	-	-	-
I-71 @ GEMINI	599	-	-	-	-	-	-	-	-	-	-	-	-	31	356	16	-	-	217	-
I-270 @ WESTERVILLE	601	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
I-270 @ HAMILTON	603	9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
I-270 @ HAYDEN RUN	605	13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SUB TOTAL		**16,510**	**-**	**-**	**-**	**-**	**40**	**-**	**40**	**-**	**-**	**-**	**2**	**311**	**1,653**	**436**	**113**	**-**	**703**	**-**

1 REVISION 1.0 11-02-2018

3378-E

CIP: 540007-100012
PID NUMBER: 99733

SUB SUMMARY
VOLUME 2 – SHEET 2A

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

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915

J:\Jobs\63721 CTSS Phase E\TECHPROD\Sheets\CTSS_PhE_SUB_SUM_Volume2.dwg – VOLUME 2 – SHEET 6 OF 10 layout ~ last saved by: jbeans 11/05/2018 01:39pm ~ printed 11/06/2018 01:46pm PSLTS: 0 LTS: 30 CAS: 1" = 1'

LOCATION	SHEET NO.	625 CONDUIT, MISC.: 4" CONDUIT, FIBER-GLASS REINFORCED, ATTACHED TO STRUCTURE FT	625 CONDUIT, MISC.: CONDUIT RESTORATION FT	625 DISTRIBUTION CABLE, NO. 1 FT	625 DISTRIBUTION CABLE, NO. 2 FT	625 DISTRIBUTION CABLE, NO. 3 FT	625 DISTRIBUTION CABLE, NO. 3/0 FT	625 DISTRIBUTION CABLE, NO. 4 FT	625 DISTRIBUTION CABLE, NO. 6 FT	625 GROUND ROD EACH	625 POWER SERVICE, TYPE A, AS PER PLAN EACH	625 POWER SERVICE, TYPE B, AS PER PLAN EACH	625 POWER SERVICE, TYPE C, AS PER PLAN EACH	625 POWER SERVICE, TYPE D, AS PER PLAN EACH	625 POWER SERVICE, TYPE E, AS PER PLAN EACH	625 POWER SERVICE, TYPE F, AS PER PLAN EACH	625 POWER SERVICE, TYPE G, AS PER PLAN EACH	625 POWER SERVICE, TYPE H, AS PER PLAN EACH	625 POWER SERVICE, TYPE I, AS PER PLAN EACH	625 PULL BOX, 18", 725.06, AS PER PLAN EACH
EASTON WAY	538	-	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EASTON WAY	541	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MORSE CROSSING	547	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EASTON LOOP E.	552	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
EASTON LOOP W.	556	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SUNBURY RD.	562	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
I-70 @ HILLIARD-ROME	564	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
I-70 @ I-270	566	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
I-270 @ ROBERTS	568	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
I-71 @ I-270	570	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
I-71 @ SR-104	572	-	-	-	2,037	-	-	-	-	3	-	-	1	-	-	-	-	-	-	-
I-71 @ GREENLAWN	574	-	-	-	-	-	-	-	204	3	-	-	-	1	-	-	-	-	-	-
I-71 @ GREENLAWN	575	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
I-270 @ HIGH	577	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SR-104 @ HIGH	579	-	-	-	-	696	-	-	384	3	-	-	-	-	1	-	-	-	-	-
SR-104 @ HIGH	580	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
I-70 @ HAMILTON	582	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
I-670 @ LEONARD	584	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
I-270 @ SR-161	586	-	-	-	-	-	-	-	448	3	-	-	-	-	-	1	-	-	-	-
SR-161 @ HAMILTON	588	-	-	-	-	-	-	1,305	-	3	-	-	-	-	-	-	1	-	-	-
SR-161 @ HAMILTON	589	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SR-161 @ NEW ALBANY	591	-	-	-	-	-	-	-	654	3	-	-	-	-	-	-	-	1	-	-
I-270 @ SR-315	593	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
I-270 @ I-71	595	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
I-71 @ POLARIS	597	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
I-71 @ GEMINI	599	-	-	-	1,872	-	-	-	-	3	-	-	-	-	-	-	-	-	1	-
I-270 @ WESTERVILLE	601	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
I-270 @ HAMILTON	603	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
I-270 @ HAYDEN RUN	605	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SUB TOTAL		**-**	**30**	**-**	**3,909**	**696**	**-**	**1,305**	**1,690**	**21**	**-**	**-**	**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**

3378-E

CIP: 540007-100012
PID NUMBER: 99733

SUB SUMMARY
VOLUME 2 – SHEET 2B

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

334
915

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LOCATION	SHEET NO.	625 PULL BOX, 18", 725.08, AS PER PLAN EACH	625 PULL BOX, 24", 725.08 EACH	625 PULL BOX, CONCRETE 32", AS PER PLAN EACH	625 PULL BOX, CONCRETE 48", AS PER PLAN EACH	625 PULL BOX, MISC.: REFURBISH CONCRETE PULL BOX EACH	625 PULL BOX, REMOVED, AS PER PLAN EACH	625 TRENCH, 36" DEEP, AS PER PLAN FT	625 TRENCH IN PAVED AREA, AS PER PLAN FT	632 CONDUIT RISER, 2", 725.04, AS PER PLAN EACH	632 CONDUIT RISER, 2", 725.051, AS PER PLAN EACH	632 DOWN GUY EACH	632 INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 144 STRAND FT	632 INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 24 STRAND FT	632 INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 288 STRAND FT	632 INTERCONNECT CABLE, MISC.: FIBER OPTIC DROP CABLE, 24 STRAND FT	632 INTERCONNECT CABLE, MISC.: FIBER OPTIC FUSION SPLICE EACH	632 INTERCONNECT CABLE, MISC.: OVERLASH TO EXISTING INTERCONNECT FT	632 INTERCONNECT CABLE, MISC.: REMOVE EXISTING OVERHEAD INTERCONNECT FT	632 INTERCONNECT CABLE, MISC.: REMOVE EXISTING UNDERGROUND INTERCONNECT FT
EASTON WAY	538	-	-	-	-	-	-	-	-	-	-	-	3,682	-	-	834	300	-	-	-
EASTON WAY	541	-	-	-	-	-	-	13	-	-	-	-	2,156	1,295	-	282	324	-	-	-
MORSE CROSSING	547	-	-	-	-	-	-	-	-	-	-	-	4,879	576	-	937	288	-	-	-
EASTON LOOP E.	552	-	-	-	-	-	-	43	-	-	-	-	-	2,368	-	750	48	-	-	-
EASTON LOOP W.	556	-	-	-	-	-	-	-	-	-	-	-	-	2,683	-	161	12	-	-	-
SUNBURY RD.	562	-	-	-	-	-	-	-	-	-	-	-	6,822	-	-	603	240	-	-	-
I-70 @ HILLIARD-ROME	564	-	-	-	1	-	-	7	-	-	-	-	75	300	75	-	312	-	-	-
I-70 @ I-270	566	-	-	-	-	-	-	-	-	-	-	-	-	150	75	-	288	-	-	-
I-270 @ ROBERTS	568	-	-	-	-	-	-	-	-	-	-	-	558	150	-	-	576	-	-	-
I-71 @ I-270	570	-	-	-	-	-	-	-	-	-	-	-	-	450	75	-	864	-	-	-
I-71 @ SR-104	572	3	-	-	1	-	-	640	-	-	-	-	150	600	150	-	1,152	-	-	-
I-71 @ GREENLAWN	574	1	-	-	1	-	-	83	-	-	1	-	1,194	300	75	-	876	7	-	-
I-71 @ GREENLAWN	575	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
I-270 @ HIGH	577	-	-	-	-	-	-	-	-	-	-	-	75	150	-	-	432	-	-	-
SR-104 @ HIGH	579	1	-	3	1	-	-	265	-	-	2	-	1,226	300	424	-	876	254	-	-
SR-104 @ HIGH	580	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
I-70 @ HAMILTON	582	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	144	-	-	-
I-670 @ LEONARD	584	-	-	-	-	-	-	-	-	-	-	-	150	300	-	-	600	-	-	-
I-270 @ SR-161	586	1	-	-	1	-	-	122	-	-	-	-	-	300	-	-	852	-	-	-
SR-161 @ HAMILTON	588	3	-	-	1	-	-	495	-	-	-	-	75	300	150	-	480	-	-	-
SR-161 @ HAMILTON	589	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SR-161 @ NEW ALBANY	591	4	-	-	1	-	-	175	-	-	-	-	150	300	75	-	576	-	-	-
I-270 @ SR-315	593	-	-	-	-	-	-	-	-	-	-	-	75	150	-	-	144	-	-	-
I-270 @ I-71	595	-	-	-	-	-	-	-	-	-	-	-	-	150	75	-	288	-	-	-
I-71 @ POLARIS	597	-	-	-	1	-	-	35	-	-	-	-	150	300	150	-	624	-	-	-
I-71 @ GEMINI	599	6	-	-	1	-	-	308	-	-	-	-	150	300	75	-	576	-	-	-
I-270 @ WESTERVILLE	601	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	444	-	-	196
I-270 @ HAMILTON	603	-	-	-	-	-	-	-	-	-	-	-	75	150	-	-	144	-	-	-
I-270 @ HAYDEN RUN	605	-	-	-	-	-	-	-	-	-	-	-	75	150	-	-	432	-	-	-
SUB TOTAL		**19**	**-**	**3**	**9**	**-**	**-**	**2,186**	**-**	**-**	**3**	**-**	**21,717**	**11,722**	**1,399**	**3,567**	**11,892**	**261**	**-**	**196**

1 REVISION 1.0 11-02-2018

3378-E

CIP: 540007-100012
PID NUMBER: 99733

SUB SUMMARY
VOLUME 2 – SHEET 2C

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

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915

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LOCATION	SHEET NO.	632 INTERCONNECT CABLE, MISC.: TERMINATION PANEL, 24 FIBER	632 INTERCONNECT, MISC.: CAT 5E CABLE, OUTDOOR RATED	632 INTERCONNECT, MISC.: DUAL PANEL ASSEMBLY, 24 FIBER, 1 RU, PRE-TERMINATED	632 INTERCONNECT, MISC.: PRE-TERMINATED FIBER OPTIC DROP CABLE, 144 STRAND, 150FT	632 INTERCONNECT, MISC.: PRE-TERMINATED FIBER OPTIC DROP CABLE, 144 STRAND, 475FT	632 INTERCONNECT, MISC.: PRE-TERMINATED FIBER OPTIC DROP CABLE, 24 STRAND, 150FT	632 INTERCONNECT, MISC.: PRE-TERMINATED FIBER OPTIC DROP CABLE, 24 STRAND, 475FT	632 INTERCONNECT, MISC.: SPLICE ENCLOSURE, CLAMSHELL, 144 SPLICE	632 INTERCONNECT, MISC.: SPLICE ENCLOSURE, CLAMSHELL, 288 SPLICE	632 INTERCONNECT, MISC.: SPLICE ENCLOSURE, DOME, 144 SPLICE	632 INTERCONNECT, MISC.: SPLICE ENCLOSURE, DOME, 800 SPLICE	632 INTERCONNECT, MISC.: TERMINATION PANEL, 144 FIBER, 4 RU	632 INTERCONNECT, MISC.: TERMINATION PANEL, 24 FIBER, 1 RU	632 INTERCONNECT, MISC.: TERMINATION PANEL, 288 FIBER, 4 RU	632 MESSENGER WIRE, 7 STRAND, 1/4" DIAMETER WITH ACCESSORIES, AS PER PLAN	632 SIGNALIZATION, MISC.: CCTV COMPOSITE CABLE	632 SIGNALIZATION, MISC.: CCTV IP-CAMERA SYSTEM	632 SIGNALIZATION, MISC.: CELLULAR ETHERNET COMMUNICATIONS UNIT	632 SPREAD SPECTRUM RADIO, AS PER PLAN
		EACH	FT	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	FT	FT	EACH	EACH	EACH
EASTON WAY	538	5	315	-	-	-	-	-	-	4	-	-	-	-	-	-	-	-	-	2
EASTON WAY	541	3	-	-	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-
MORSE CROSSING	547	5	-	-	-	-	-	-	-	4	-	-	-	-	-	-	-	-	-	-
EASTON LOOP E.	552	3	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-
EASTON LOOP W.	556	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-
SUNBURY RD.	562	3	-	-	-	-	-	-	-	3	-	-	-	-	-	5,999	-	-	-	-
I-70 @ HILLIARD-ROME	564	-	-	1	3	-	1	-	-	2	-	-	1	1	1	-	-	-	-	-
I-70 @ I-270	566	-	-	-	2	-	-	-	-	1	-	-	2	-	-	-	-	-	-	-
I-270 @ ROBERTS	568	-	-	1	4	-	-	-	-	1	-	1	2	-	1	-	-	-	-	-
I-71 @ I-270	570	-	-	-	6	-	-	-	-	3	-	-	2	-	2	-	-	-	-	-
I-71 @ SR-104	572	-	-	1	8	-	-	-	-	4	-	-	-	-	4	16	-	-	-	-
I-71 @ GREENLAWN	574	-	-	1	4	-	-	-	-	2	-	1	-	-	2	-	-	-	-	-
I-71 @ GREENLAWN	575	-	-	-	-	-	-	-	-	-	-	-	-	-	-	43	-	-	-	-
I-270 @ HIGH	577	-	-	-	4	-	-	-	-	1	-	1	2	-	1	-	-	-	-	-
SR-104 @ HIGH	579	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SR-104 @ HIGH	580	-	-	-	4	-	-	-	-	2	-	1	-	-	2	232	-	-	-	-
I-70 @ HAMILTON	582	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-
I-670 @ LEONARD	584	-	-	1	4	-	-	-	-	1	-	1	2	-	1	-	-	-	-	-
I-270 @ SR-161	586	-	-	1	6	-	-	-	-	3	-	-	2	-	2	-	-	-	-	-
SR-161 @ HAMILTON	588	-	-	1	4	-	1	-	-	1	-	1	4	1	-	-	-	-	-	-
SR-161 @ HAMILTON	589	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SR-161 @ NEW ALBANY	591	-	9	1	4	-	-	-	-	2	-	-	-	-	2	-	-	-	-	-
I-270 @ SR-315	593	-	-	-	2	-	-	-	1	-	-	-	2	-	-	-	-	-	-	-
I-270 @ I-71	595	-	-	-	2	-	-	-	-	1	-	-	2	-	-	-	-	-	-	-
I-71 @ POLARIS	597	-	-	1	4	-	1	-	-	1	-	1	2	1	1	-	-	-	-	-
I-71 @ GEMINI	599	-	-	1	4	-	-	-	-	2	-	-	-	-	2	-	-	-	-	-
I-270 @ WESTERVILLE	601	-	-	-	-	2	-	-	-	-	-	1	-	-	1	-	-	-	-	-
I-270 @ HAMILTON	603	-	-	-	2	-	-	-	-	-	-	1	2	-	-	-	-	-	-	-
I-270 @ HAYDEN RUN	605	-	-	1	4	-	-	-	-	1	-	1	2	-	1	-	-	-	-	-
SUB TOTAL		**20**	**324**	**12**	**71**	**2**	**3**	**-**	**1**	**43**	**1**	**11**	**27**	**3**	**23**	**6,290**	**-**	**-**	**-**	**2**

3378-E

CIP: 540007–100012
PID NUMBER: 99733

SUB SUMMARY
VOLUME 2 – SHEET 2D

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

336
915

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LOCATION	SHEET NO.	632	632	632	633	633	633	633	633	633	633	633	633						
		STRAIN POLE, DESIGN NO. 6	STRAIN POLE FOUNDATION, DESIGN NO. 6	WOOD POLE, CLASS 5, 35 FT	CABINET, GROUND MOUNTED, TYPE TS-2, AS PER PLAN	CABINET, POLE MOUNTED, TYPE TS-2, AS PER PLAN	CABINET, TYPE 334, AS PER PLAN	CONTROLLER ITEM, MISC.: COMMUNICATIONS NODE	CONTROLLER ITEM, MISC.: ETHERNET EXTENDER	CONTROLLER ITEM, MISC.: FIBER OPTIC ETHERNET TRANSCEIVER, SHORT RANGE	CONTROLLER ITEM, MISC.: INTERNAL ETHERNET MODULE	CONTROLLER ITEM, MISC.: LAYER 2 ETHERNET SWITCH	CONTROLLER ITEM, MISC.: LAYER 3 ETHERNET SWITCH, ENVIRONMENTALLY HARDENED	CONTROLLER UNIT, TYPE TS2/A2, AS PER PLAN						
		EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH						
EASTON WAY	538	-	-	-	-	-	-	-	-	8	-	5	-	5						
EASTON WAY	541	-	-	-	-	-	-	-	-	4	-	2	-	2						
MORSE CROSSING	547	-	-	-	-	-	-	-	-	6	-	3	-	3						
EASTON LOOP E.	552	-	-	-	-	-	-	-	-	4	-	2	-	2						
EASTON LOOP W.	556	-	-	-	-	-	-	-	-	2	-	1	-	1						
SUNBURY RD.	562	-	-	-	-	-	-	-	-	16	-	2	1	2						
I-70 @ HILLIARD-ROME	564	-	-	-	-	-	-	1	-	4	-	-	1	-						
I-70 @ I-270	566	-	-	-	-	-	-	-	-	1	-	-	-	-						
I-270 @ ROBERTS	568	-	-	-	-	-	-	-	-	5	-	-	-	-						
I-71 @ I-270	570	-	-	-	-	-	-	-	-	1	-	-	-	-						
I-71 @ SR-104	572	-	-	-	-	-	-	1	-	5	-	-	1	-						
I-71 @ GREENLAWN	574	-	-	-	-	-	-	-	-	-	-	-	-	-						
I-71 @ GREENLAWN	575	-	-	-	-	-	-	1	-	5	-	-	1	-						
I-270 @ HIGH	577	-	-	-	-	-	-	-	-	2	-	-	-	-						
SR-104 @ HIGH	579	-	-	-	-	-	-	-	-	-	-	-	-	-						
SR-104 @ HIGH	580	-	-	-	-	-	-	1	-	5	-	-	1	-						
I-70 @ HAMILTON	582	-	-	-	-	-	-	-	-	3	-	-	1	-						
I-670 @ LEONARD	584	-	-	-	-	-	-	-	-	2	-	-	-	-						
I-270 @ SR-161	586	-	-	-	-	-	-	1	-	6	-	-	1	-						
SR-161 @ HAMILTON	588	-	-	-	-	-	-	-	-	-	-	-	-	-						
SR-161 @ HAMILTON	589	-	-	-	-	-	-	1	-	6	-	-	1	-						
SR-161 @ NEW ALBANY	591	-	-	-	-	-	-	1	-	4	-	-	1	-						
I-270 @ SR-315	593	-	-	-	-	-	-	-	-	2	-	-	-	-						
I-270 @ I-71	595	-	-	-	-	-	-	-	-	1	-	-	-	-						
I-71 @ POLARIS	597	-	-	-	-	-	-	1	-	4	-	-	1	-						
I-71 @ GEMINI	599	-	-	-	-	-	-	1	-	3	-	-	1	-						
I-270 @ WESTERVILLE	601	-	-	-	-	-	-	-	-	-	-	-	-	-						
I-270 @ HAMILTON	603	-	-	-	-	-	-	-	-	3	-	-	-	-						
I-270 @ HAYDEN RUN	605	-	-	-	-	-	-	-	-	2	-	-	-	-						
SUB TOTAL		-	-	-	-	-	-	9	-	104	-	15	11	15	-	-	-	-	-	

3378-E

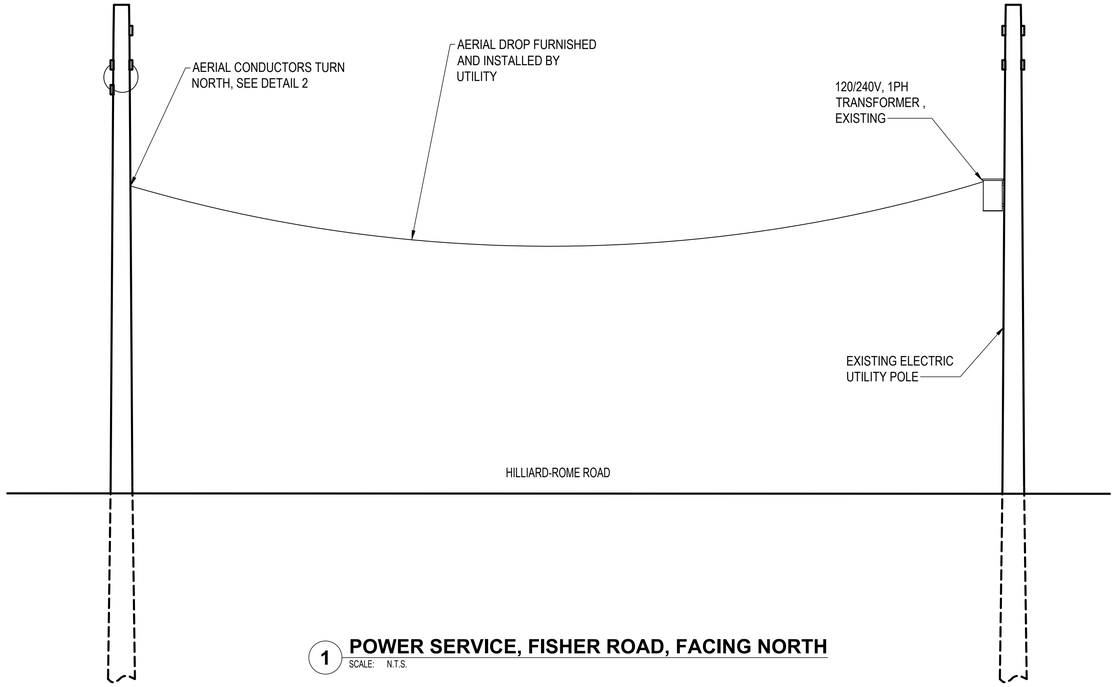
CIP: 540007–100012
PID NUMBER: 99733

SUB SUMMARY
VOLUME 2 – SHEET 2E

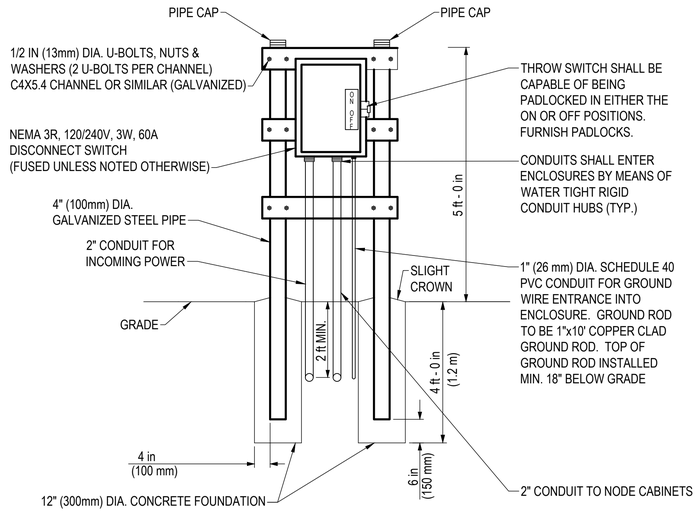
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

337
915

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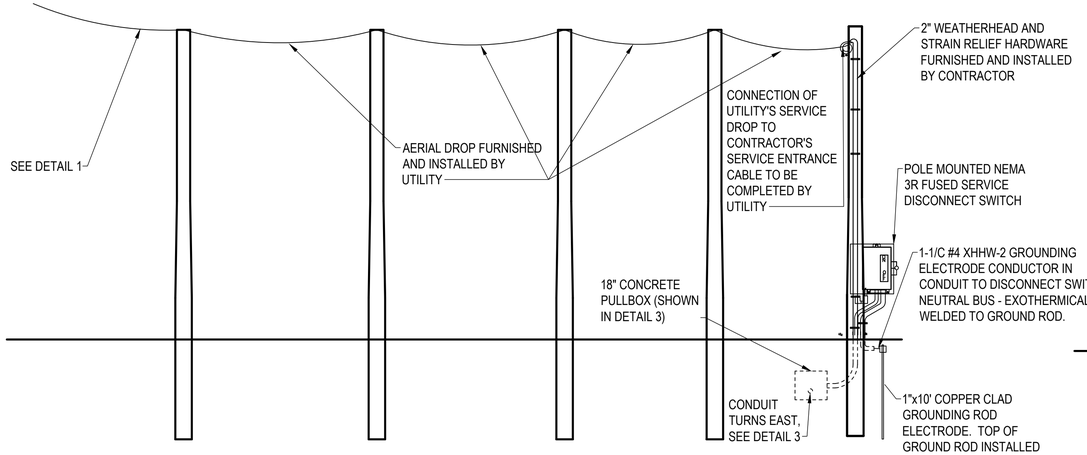


1 POWER SERVICE, FISHER ROAD, FACING NORTH
SCALE: N.T.S.

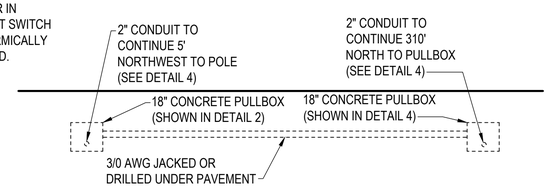


6 POWER SERVICE/DISCONNECT ELEVATION
SCALE: N.T.S.

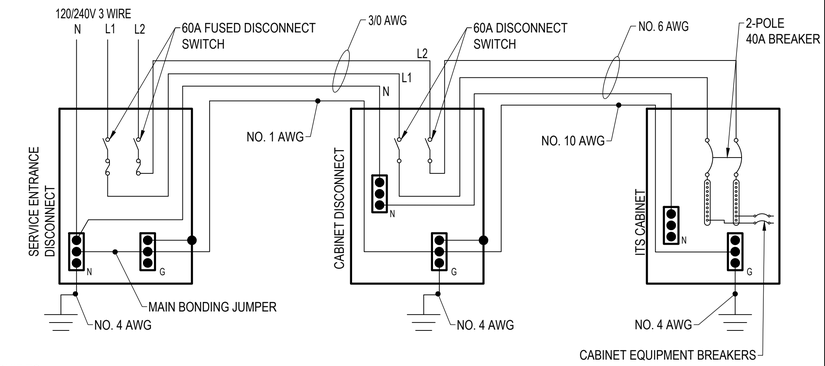
NOTES:
1. CONTRACTOR MUST COORDINATE WITH UTILITY'S FIELD ENGINEER. CONTRACTOR SHALL BE RESPONSIBLE FOR SCHEDULING AND COORDINATING ALL UTILITY RELATED WORK AND ALL INSPECTIONS AND PERMITS AS REQUIRED FOR COMPLETE AND OPERATIONAL NODE CABINET.
2. ALL WORK AND MATERIALS SHOWN ON POWER SERVICE DETAILS, THAT ARE NOT INCLUDED IN THE QUANTITY SUMMARIES, ARE INCIDENTAL TO POWER SERVICE PAY ITEMS.
3. ALL CONDUIT SYSTEMS SHALL BE INSTALLED PER 2014 NEC, LATEST VERSION OF NESC AND LOCAL REQUIREMENTS.
4. SEE SHEETS 105-106 FOR POWER SERVICE PLAN. SEE SHEET 563 FOR NODE SITE PLAN. SEE SHEETS 860-861 FOR COMMUNICATION DETAILS.



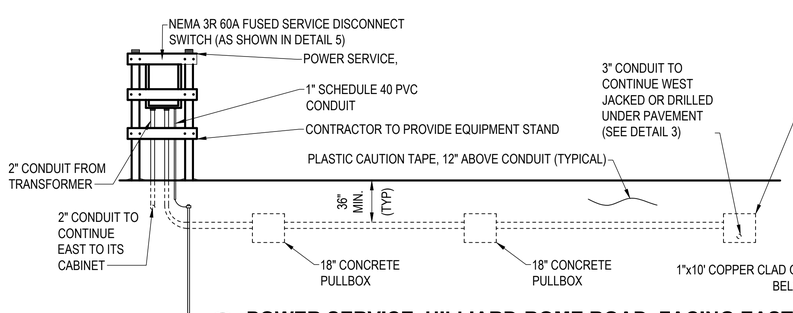
2 POWER SERVICE, HILLIARD-ROME ROAD, FACING WEST
SCALE: N.T.S.



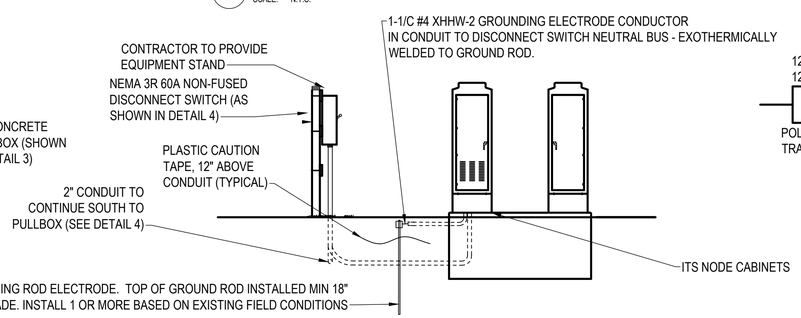
3 POWER SERVICE,HILLIARD-ROME ROAD, FACING NORTH
SCALE: N.T.S.



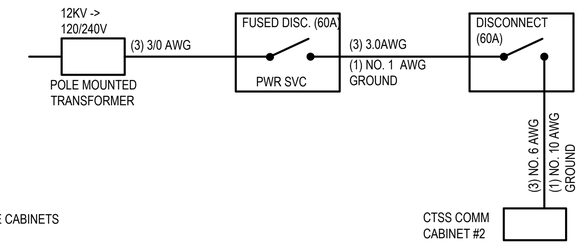
7 WIRING DIAGRAM
SCALE: N.T.S.



4 POWER SERVICE, HILLIARD-ROME ROAD, FACING EAST
SCALE: N.T.S.



5 POWER SERVICE, HILLIARD-ROME ROAD, FACING NORTH
SCALE: N.T.S.



8 POWER SERVICE CIRCUIT DIAGRAM
SCALE: N.T.S.

3378-E

CIP: 540007-100012
PID NUMBER: 99733

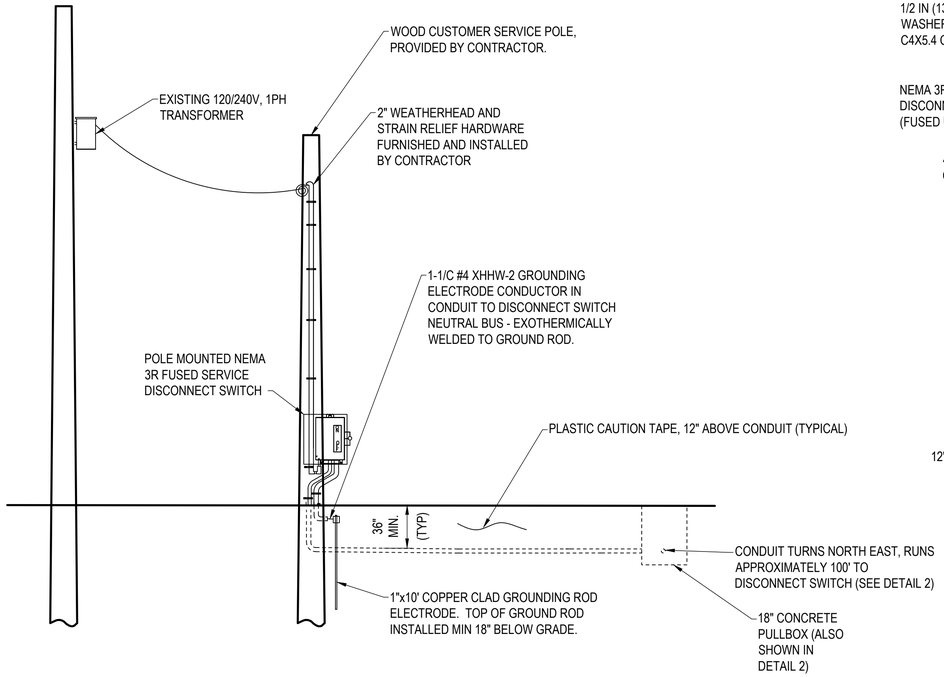
COMMUNICATIONS NODE POWER DETAILS
NODE #070091.2 – I-70 AT HILLIARD-ROME ROAD

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

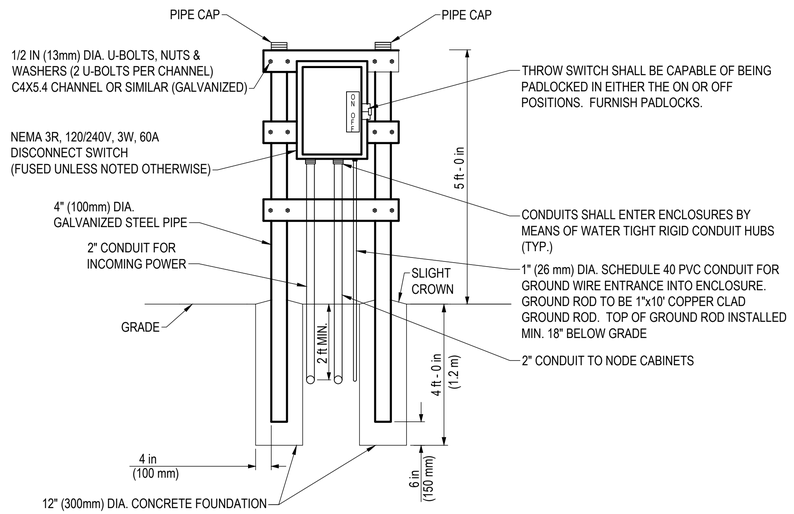
338
915

HORIZONTAL SCALE IN FEET
0 0 0

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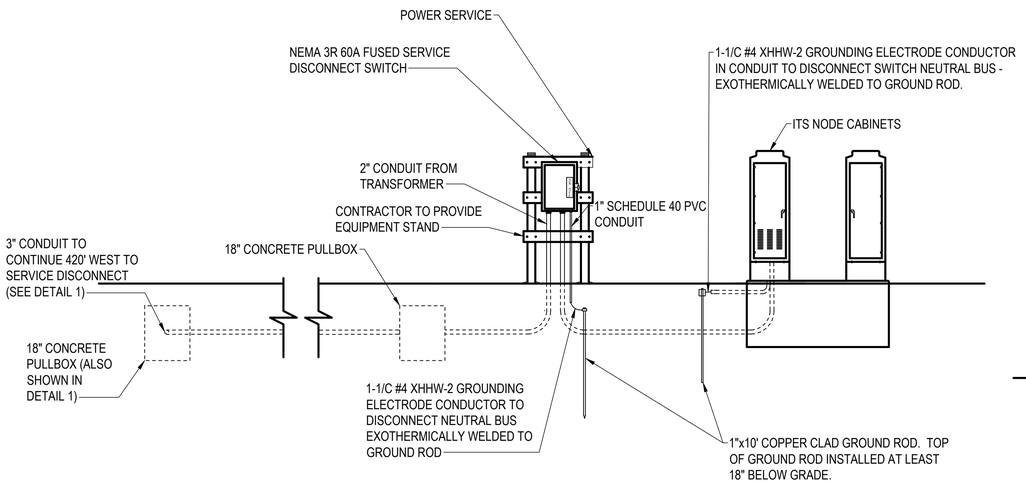


1 POWER SERVICE, FRANK ROAD, FACING NORTH
SCALE: N.T.S.

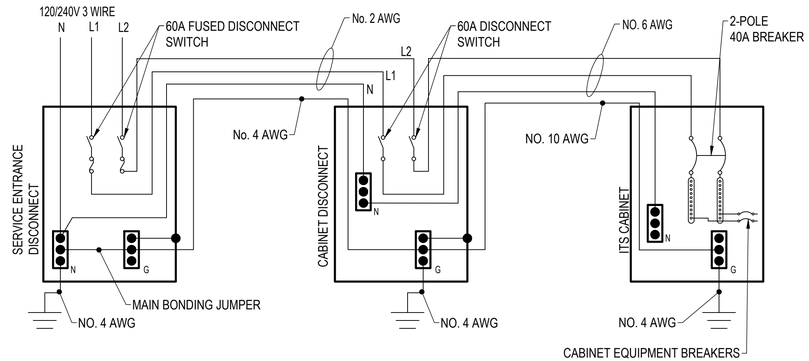


3 POWER SERVICE/DISCONNECT ELEVATION
SCALE: N.T.S.

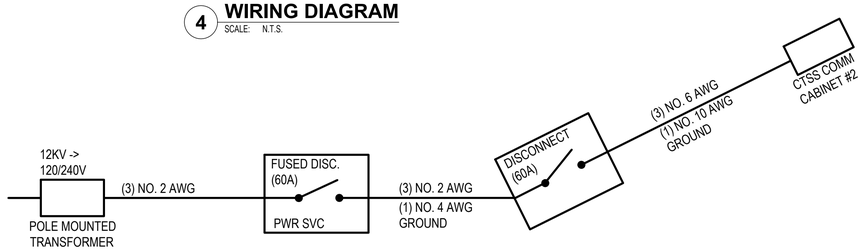
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3. ALL CONDUIT SYSTEMS SHALL BE INSTALLED PER 2014 NEC, LATEST VERSION OF NESC AND LOCAL REQUIREMENTS.
4. SEE SHEET 571 FOR NODE SITE PLAN. SEE SHEETS 864-866 FOR COMMUNICATION DETAILS.



2 POWER SERVICE, I71, FACING WEST
SCALE: N.T.S.



4 WIRING DIAGRAM
SCALE: N.T.S.



5 POWER SERVICE CIRCUIT DIAGRAM
SCALE: N.T.S.

HORIZONTAL SCALE IN FEET

CIP: 540007-100012
PID NUMBER: 99733

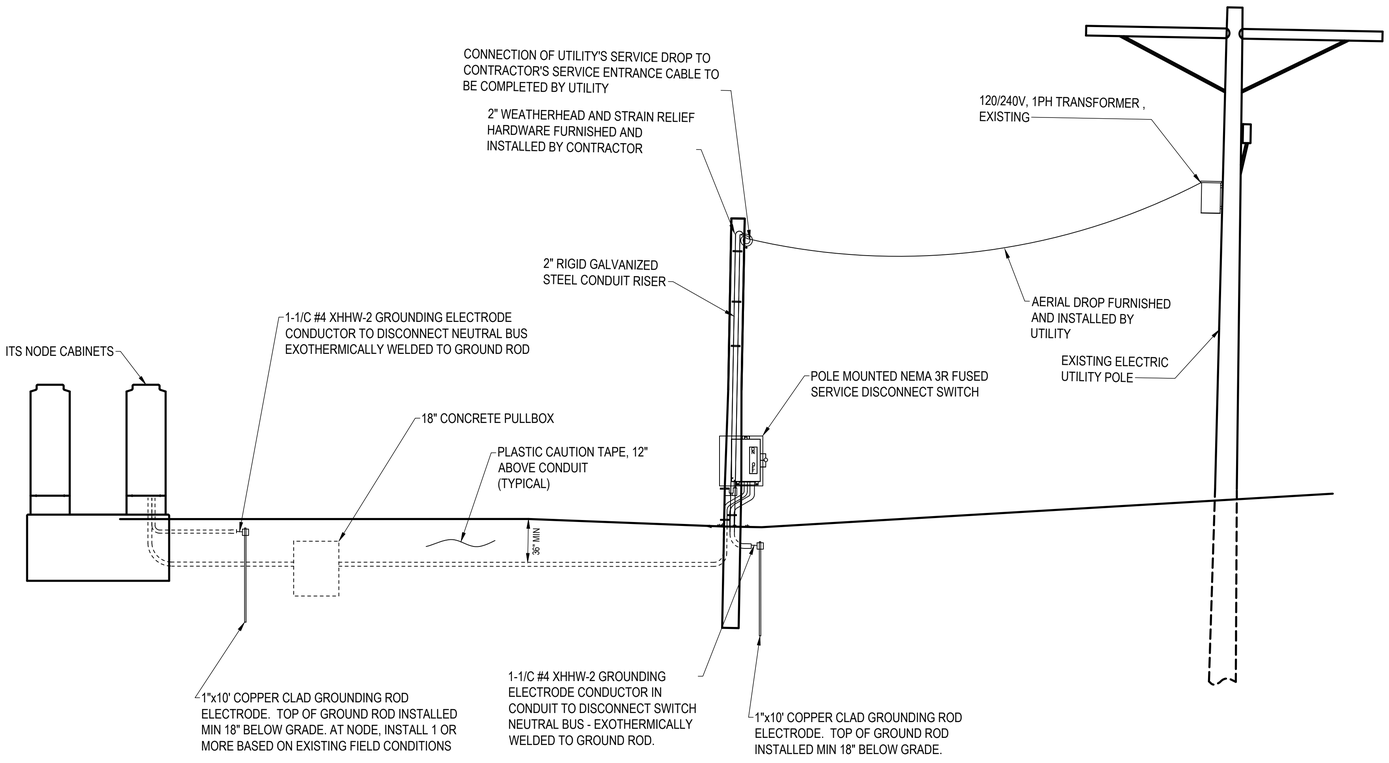
COMMUNICATIONS NODE POWER DETAILS
NODE #071104.0 – I-71 AT SR-104

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

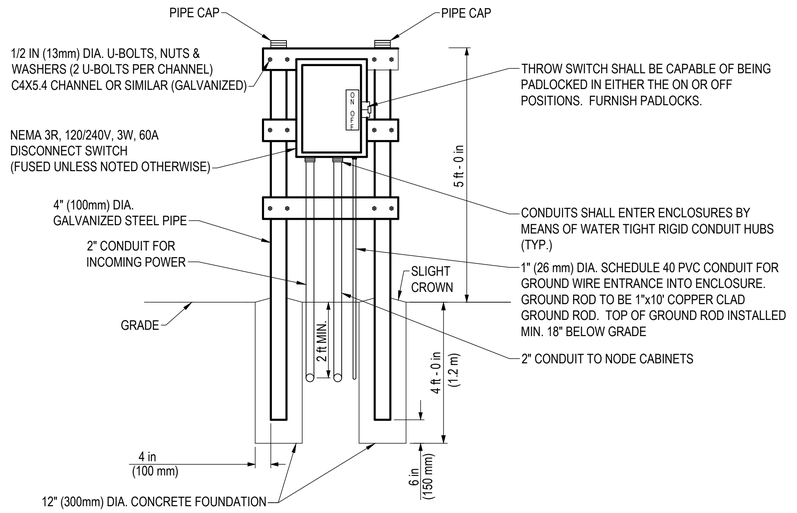
339
915

3378-E

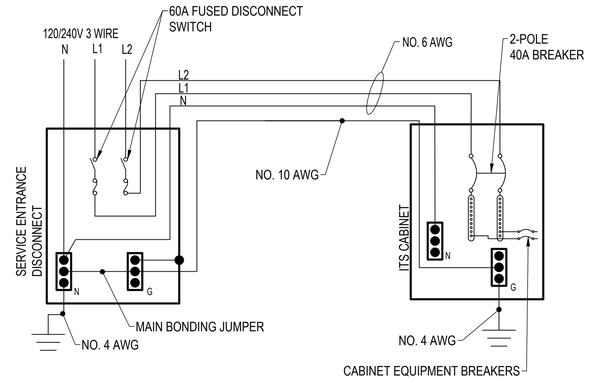
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1 POWER SERVICE, I71, FACING EAST
SCALE: N.T.S.

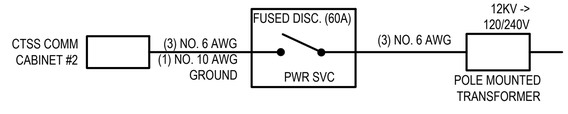


2 POWER SERVICE/DISCONNECT ELEVATION
SCALE: N.T.S.



3 WIRING DIAGRAM
SCALE: N.T.S.

NOTES:
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3. ALL CONDUIT SYSTEMS SHALL BE INSTALLED PER 2014 NEC, LATEST VERSION OF NESC AND LOCAL REQUIREMENTS.
4. SEE SHEET 573 FOR NODE SITE PLAN. SEE SHEETS 867-868 FOR COMMUNICATION DETAILS.



4 POWER SERVICE CIRCUIT DIAGRAM
SCALE: N.T.S.

3378-E

HORIZONTAL SCALE IN FEET

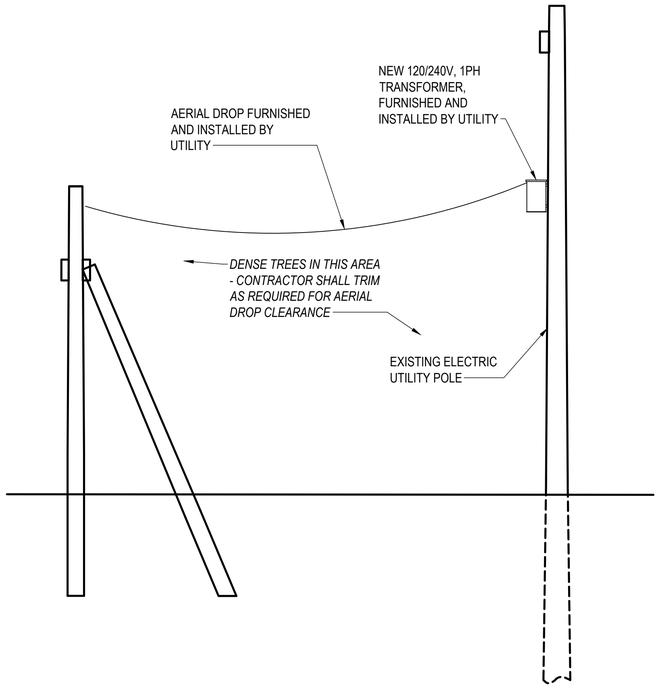
CIP: 540007–100012
PID NUMBER: 99733

COMMUNICATIONS NODE POWER DETAILS
NODE #071105.4 – I–71 AT GREENLAWN AVENUE

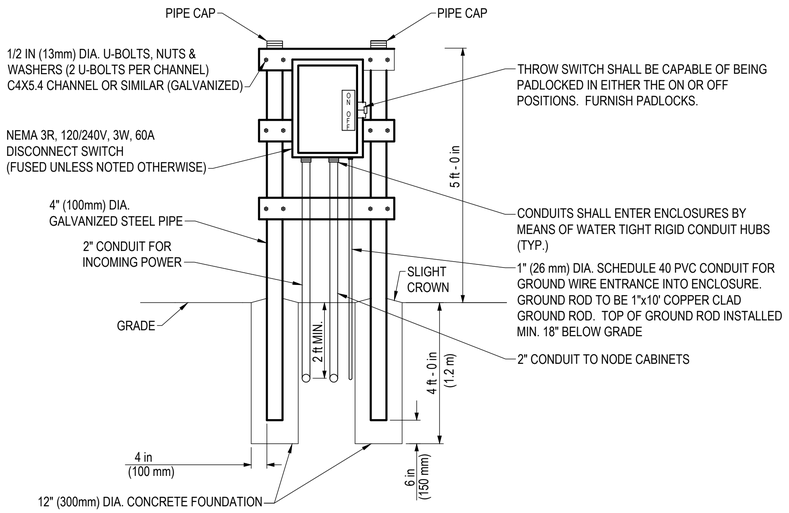
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

340
915

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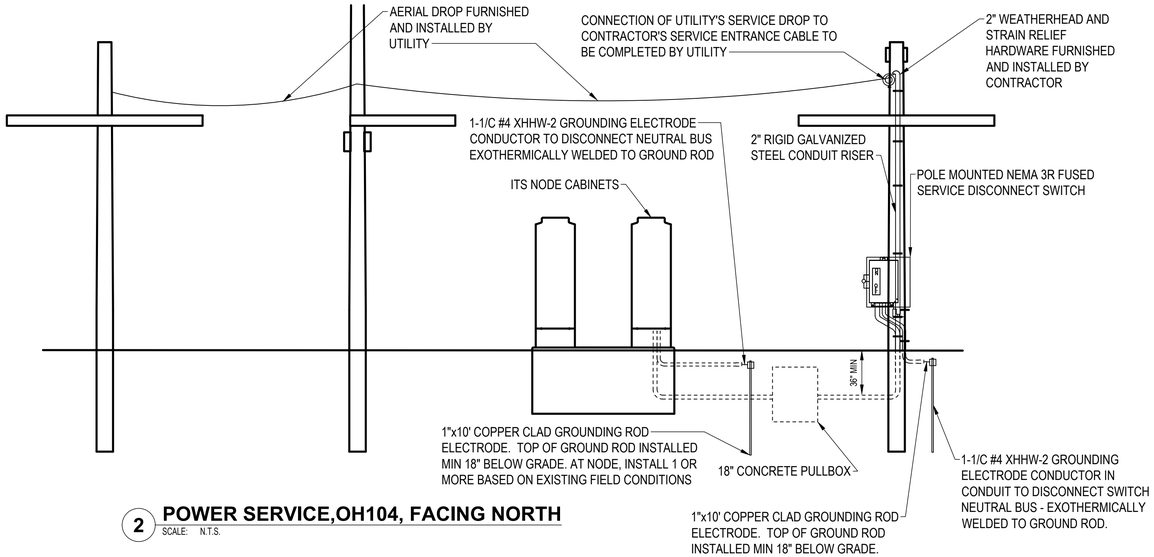


1 POWER SERVICE,US23, FACING WEST
SCALE: N.T.S.

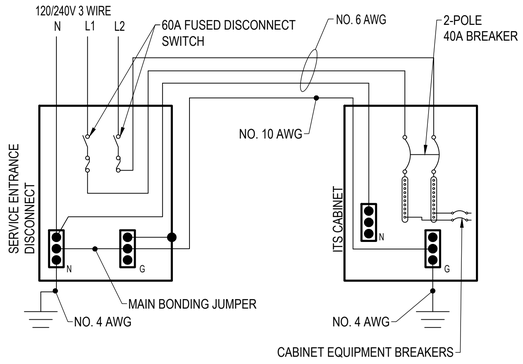


4 POWER SERVICE/DISCONNECT ELEVATION
SCALE: N.T.S.

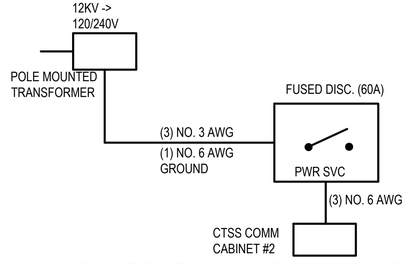
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4. SEE SHEET 578 FOR NODE SITE PLAN. SEE SHEETS 874-875 FOR COMMUNICATION DETAILS.



2 POWER SERVICE,OH104, FACING NORTH
SCALE: N.T.S.



5 WIRING DIAGRAM
SCALE: N.T.S.



6 POWER SERVICE CIRCUIT DIAGRAM
SCALE: N.T.S.

HORIZONTAL SCALE IN FEET
0 0 0

CIP: 540007–100012
PID NUMBER: 99733

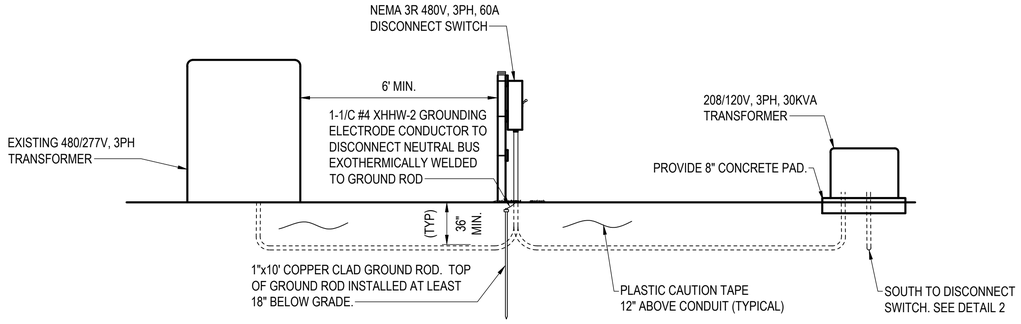
COMMUNICATIONS NODE POWER DETAILS
NODE #104091.0 – SR–104 AT HIGH STREET

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

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915

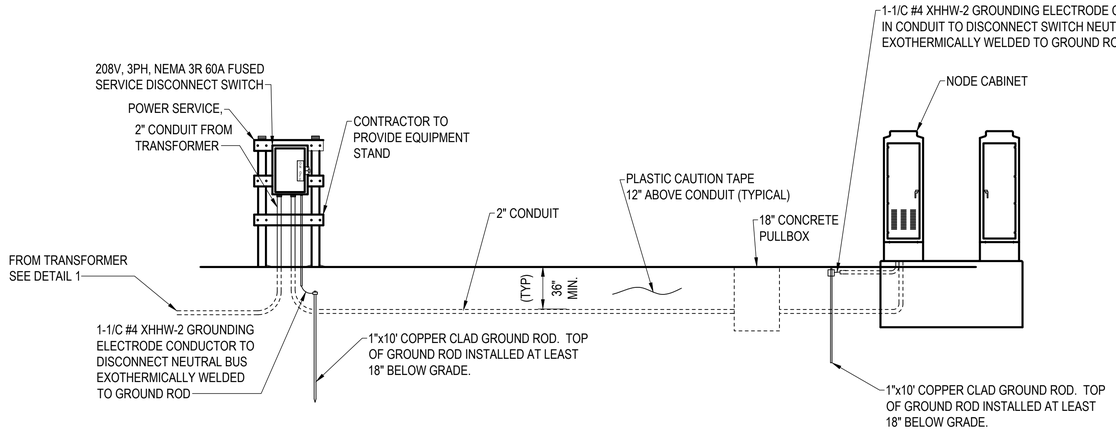
3378-E

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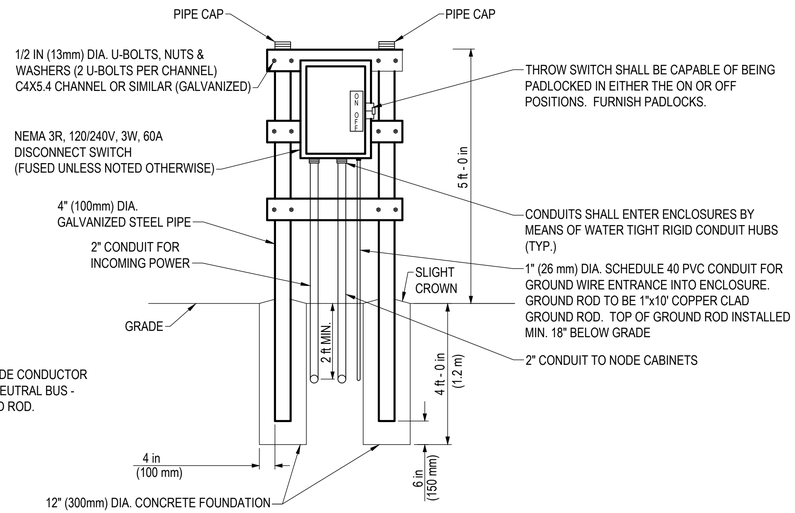
1 POWER SERVICE, S.R. 161 AND I.R. 270, FACING SOUTH

SCALE: N.T.S.



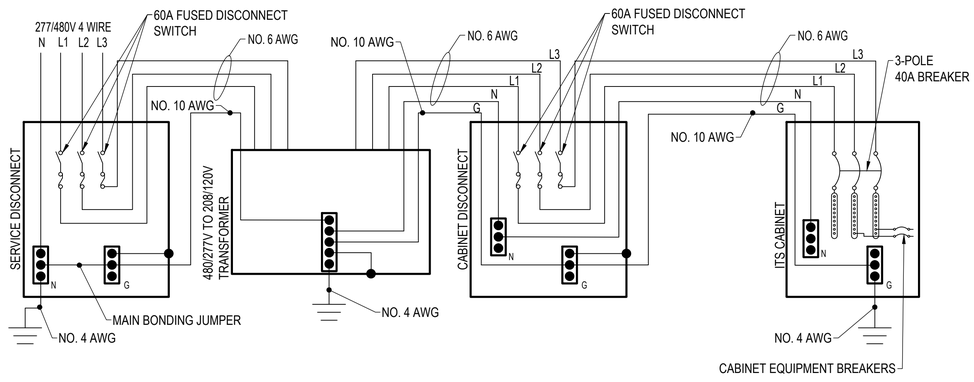
2 POWER SERVICE, S.R. 161 AND I.R. 270, FACING EAST

SCALE: N.T.S.



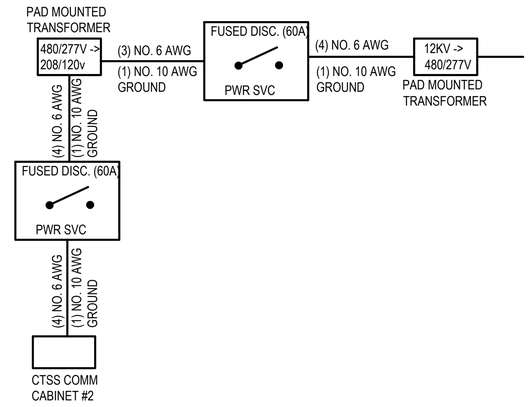
3 POWER SERVICE/DISCONNECT ELEVATION

SCALE: N.T.S.



4 WIRING DIAGRAM

SCALE: N.T.S.



5 POWER SERVICE CIRCUIT DIAGRAM

SCALE: N.T.S.

NOTES:

1. CONTRACTOR MUST COORDINATE WITH UTILITY'S FIELD ENGINEER. CONTRACTOR SHALL BE RESPONSIBLE FOR SCHEDULING AND COORDINATING ALL UTILITY RELATED WORK AND ALL INSPECTIONS AND PERMITS AS REQUIRED FOR COMPLETE AND OPERATIONAL NODE CABINET.
2. ALL WORK AND MATERIALS SHOWN ON POWER SERVICE DETAILS, THAT ARE NOT INCLUDED IN THE QUANTITY SUMMARIES, ARE INCIDENTAL TO POWER SERVICE PAY ITEMS.
3. ALL CONDUIT SYSTEMS SHALL BE INSTALLED PER 2014 NEC, LATEST VERSION OF NESC AND LOCAL REQUIREMENTS.
4. SEE SHEET 585 FOR NODE SITE PLAN. SEE SHEETS 899-901 FOR COMMUNICATION DETAILS.

HORIZONTAL SCALE IN FEET

CIP: 540007-100012
PID NUMBER: 99733

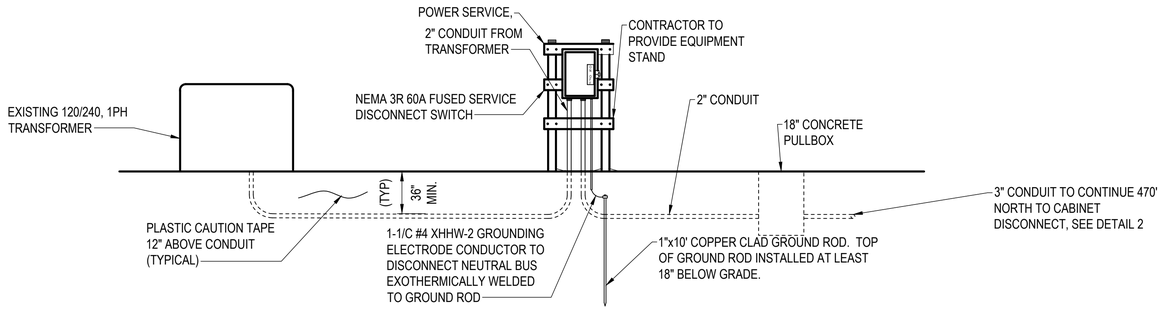
COMMUNICATIONS NODE POWER DETAILS
NODE #270030.5 – I-270 AT SR-161

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

342
915

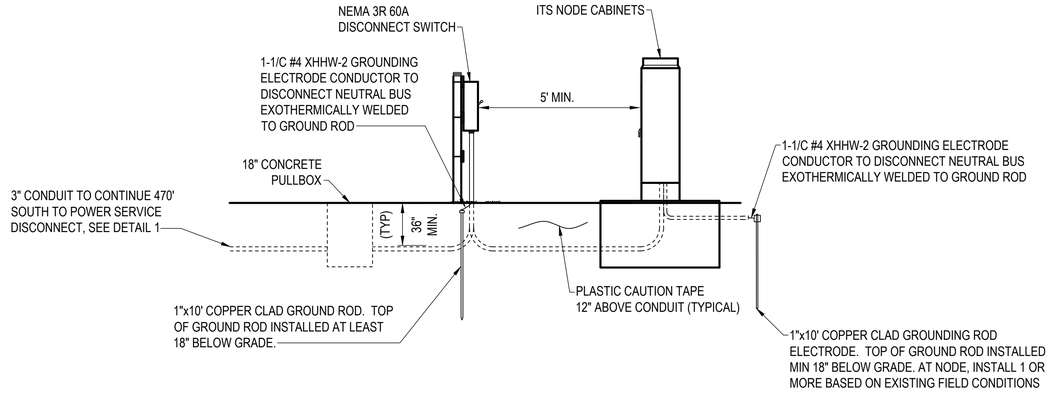
3378-E

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1 POWER SERVICE, HAMILTON ROAD, FACING WEST

SCALE: N.T.S.

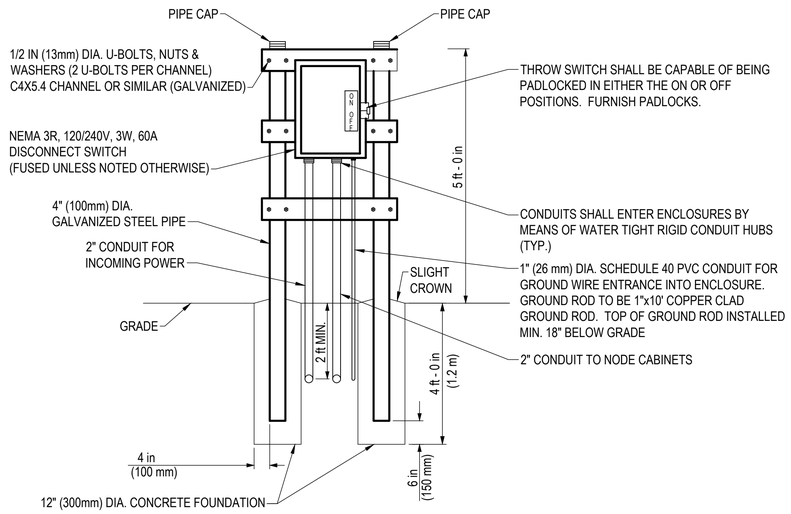


2 POWER SERVICE, HAMILTON ROAD, FACING WEST

SCALE: N.T.S.

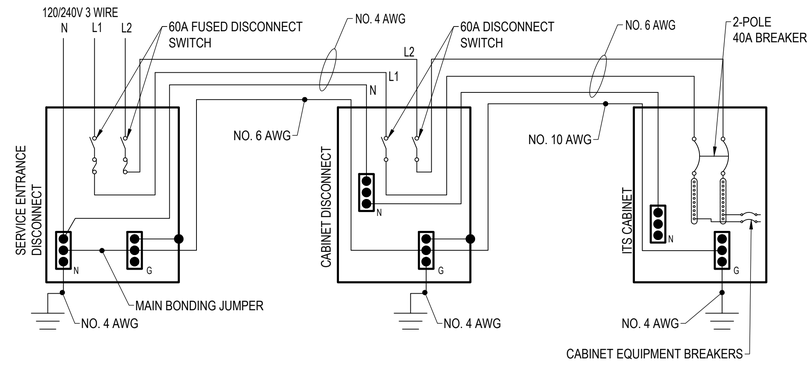
NOTES:

1. CONTRACTOR MUST COORDINATE WITH UTILITY'S FIELD ENGINEER. CONTRACTOR SHALL BE RESPONSIBLE FOR SCHEDULING AND COORDINATING ALL UTILITY RELATED WORK AND ALL INSPECTIONS AND PERMITS AS REQUIRED FOR COMPLETE AND OPERATIONAL NODE CABINET.
2. ALL WORK AND MATERIALS SHOWN ON POWER SERVICE DETAILS, THAT ARE NOT INCLUDED IN THE QUANTITY SUMMARIES, ARE INCIDENTAL TO POWER SERVICE PAY ITEMS.
3. ALL CONDUIT SYSTEMS SHALL BE INSTALLED PER 2014 NEC, LATEST VERSION OF NESC AND LOCAL REQUIREMENTS.
4. SEE SHEET 587 FOR NODE SITE PLAN. SEE SHEETS 876-877 FOR COMMUNICATION DETAILS.



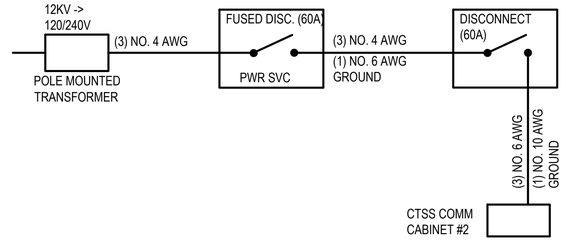
3 POWER SERVICE/DISCONNECT ELEVATION

SCALE: N.T.S.



4 WIRING DIAGRAM

SCALE: N.T.S.



5 POWER SERVICE CIRCUIT DIAGRAM

SCALE: N.T.S.

3378-E

HORIZONTAL SCALE IN FEET

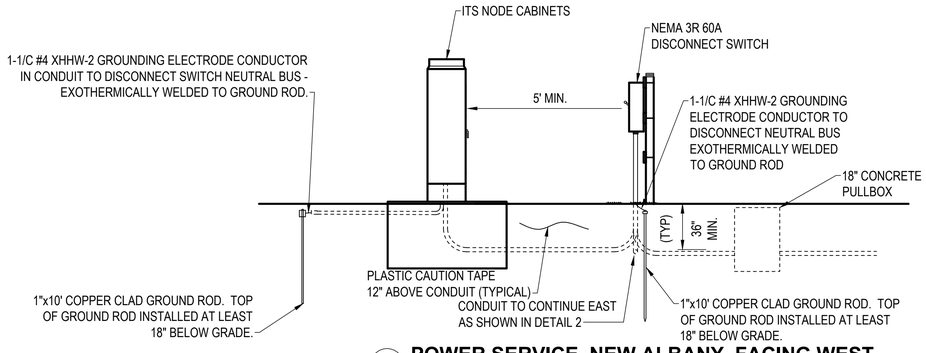
CIP: 540007–100012
PID NUMBER: 99733

COMMUNICATIONS NODE POWER DETAILS
NODE #161043.8 – SR–161 AT HAMILTON ROAD

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

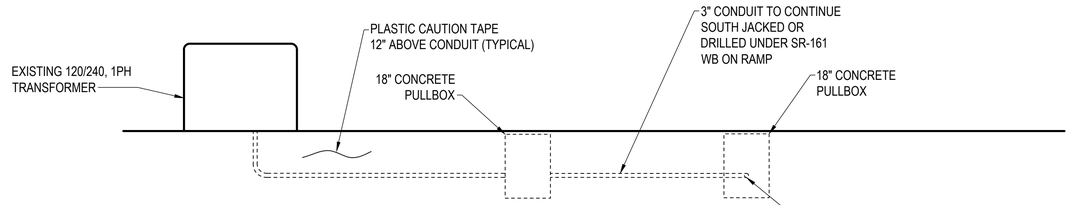
343
915

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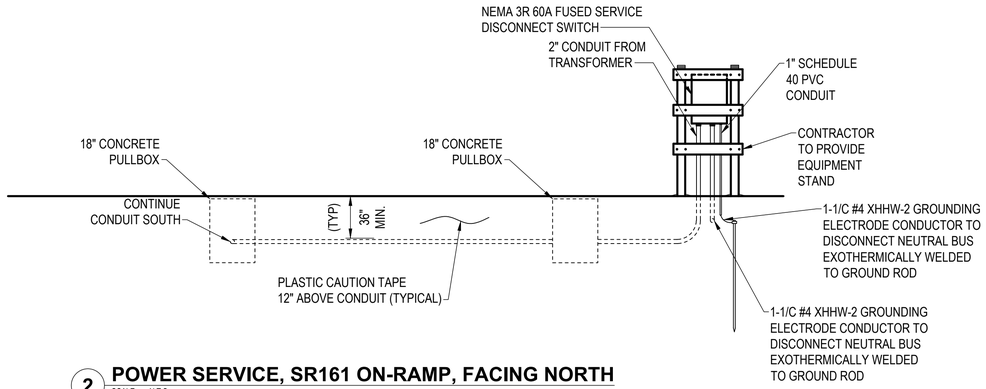


1 POWER SERVICE, NEW ALBANY, FACING WEST
SCALE: N.T.S.

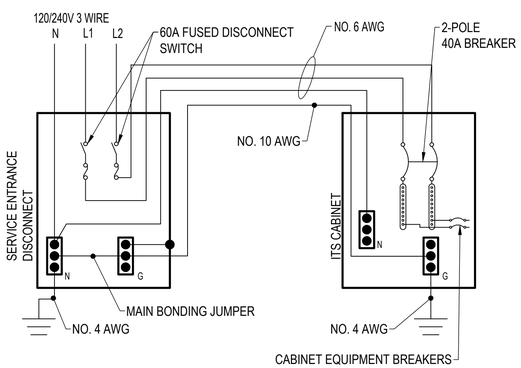
NOTES:
1. CONTRACTOR MUST COORDINATE WITH UTILITY'S FIELD ENGINEER. CONTRACTOR SHALL BE RESPONSIBLE FOR SCHEDULING AND COORDINATING ALL UTILITY RELATED WORK AND ALL INSPECTIONS AND PERMITS AS REQUIRED FOR COMPLETE AND OPERATIONAL NODE CABINET.
2. ALL WORK AND MATERIALS SHOWN ON POWER SERVICE DETAILS, THAT ARE NOT INCLUDED IN THE QUANTITY SUMMARIES, ARE INCIDENTAL TO POWER SERVICE PAY ITEMS.
3. ALL CONDUIT SYSTEMS SHALL BE INSTALLED PER 2014 NEC, LATEST VERSION OF NESC AND LOCAL REQUIREMENTS.
4. SEE SHEET 590 FOR NODE SITE PLAN. SEE SHEETS 878-879 FOR COMMUNICATION DETAILS.



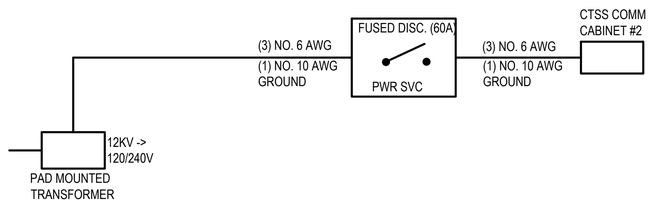
3 POWER SERVICE, NEW ALBANY ROAD, FACING WEST
SCALE: N.T.S.



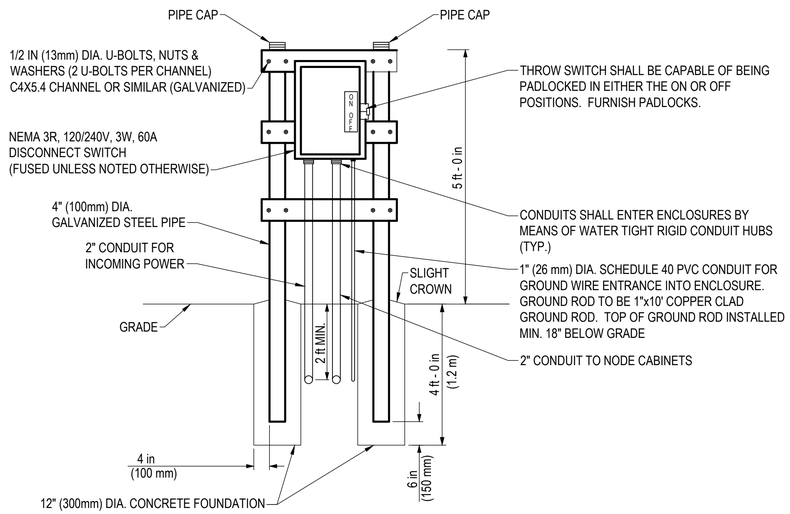
2 POWER SERVICE, SR161 ON-RAMP, FACING NORTH
SCALE: N.T.S.



4 WIRING DIAGRAM
SCALE: N.T.S.



5 POWER SERVICE CIRCUIT DIAGRAM
SCALE: N.T.S.



6 POWER SERVICE/DISCONNECT ELEVATION
SCALE: N.T.S.

HORIZONTAL SCALE IN FEET

CIP: 540007-100012
PID NUMBER: 99733

COMMUNICATIONS NODE POWER DETAILS
NODE #161045.6 – SR-161 AT NEW ALBANY ROAD

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

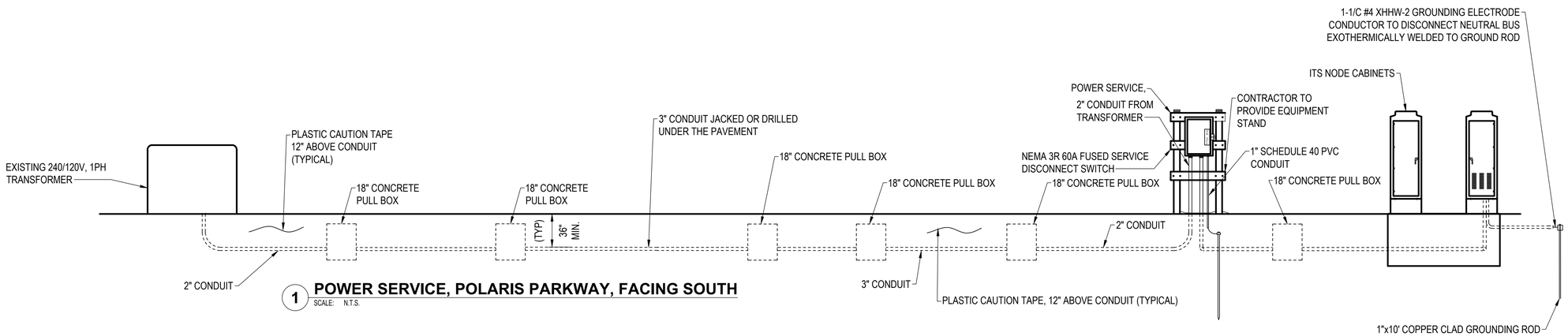
344
915

3378-E

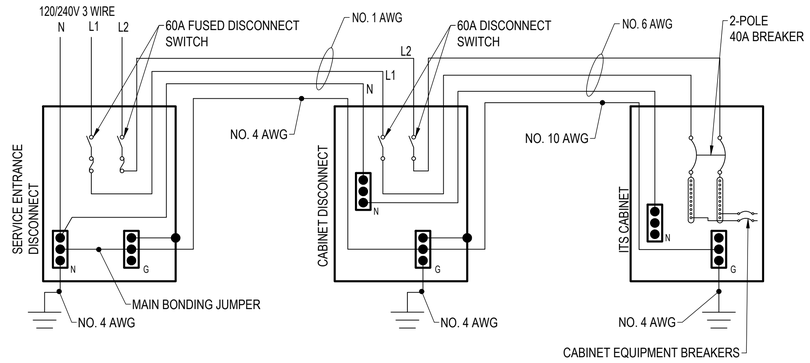
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NOTES:

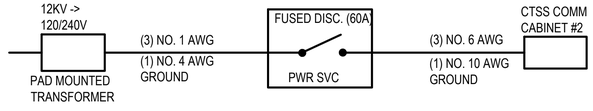
1. CONTRACTOR MUST COORDINATE WITH UTILITY'S FIELD ENGINEER. CONTRACTOR SHALL BE RESPONSIBLE FOR SCHEDULING AND COORDINATING ALL UTILITY RELATED WORK AND ALL INSPECTIONS AND PERMITS AS REQUIRED FOR COMPLETE AND OPERATIONAL NODE CABINET.
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3. ALL CONDUIT SYSTEMS SHALL BE INSTALLED PER 2014 NEC, LATEST VERSION OF NESC AND LOCAL REQUIREMENTS.
4. SEE SHEET 596 FOR NODE SITE PLAN. SEE SHEETS 397-399 FOR POWER SERVICE PLANS. SEE SHEETS 870-871 FOR COMMUNICATION DETAILS.



1 POWER SERVICE, POLARIS PARKWAY, FACING SOUTH
SCALE: N.T.S.



2 WIRING DIAGRAM
SCALE: N.T.S.



3 POWER SERVICE CIRCUIT DIAGRAM
SCALE: N.T.S.

HORIZONTAL SCALE IN FEET

CIP: 540007-100012
PID NUMBER: 99733

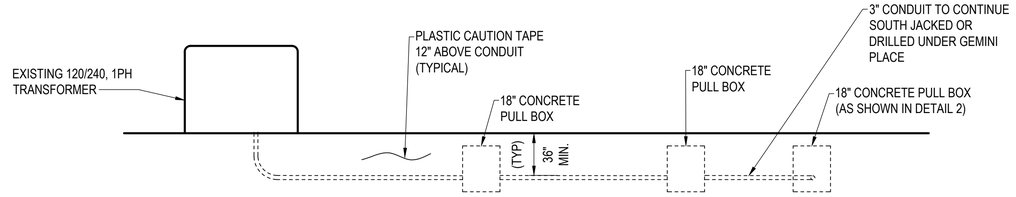
COMMUNICATIONS NODE POWER DETAILS
NODE #071121.4 – I-71 AT POLARIS PARKWAY

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

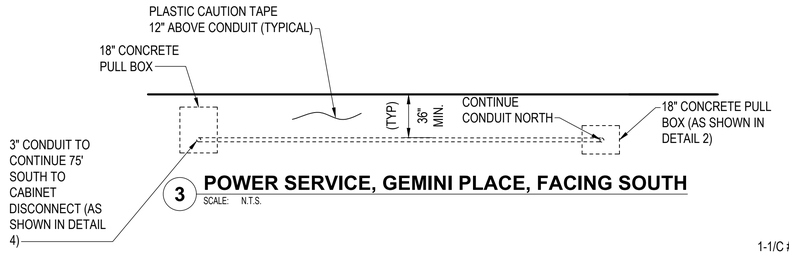
345
915

3378-E

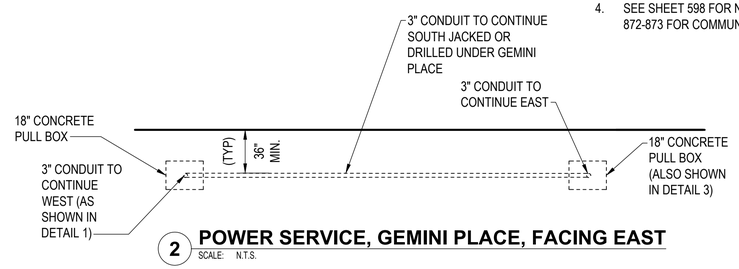
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1 POWER SERVICE, GEMINI PLACE, FACING NORTH
SCALE: N.T.S.



3 POWER SERVICE, GEMINI PLACE, FACING SOUTH
SCALE: N.T.S.

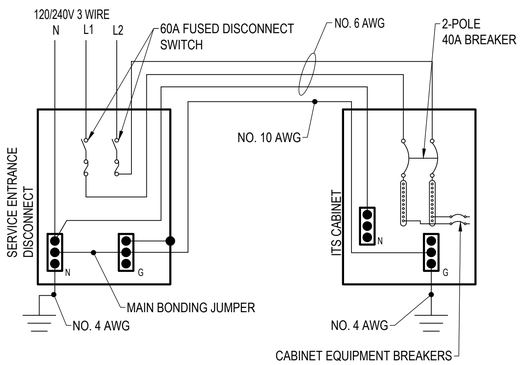


2 POWER SERVICE, GEMINI PLACE, FACING EAST
SCALE: N.T.S.

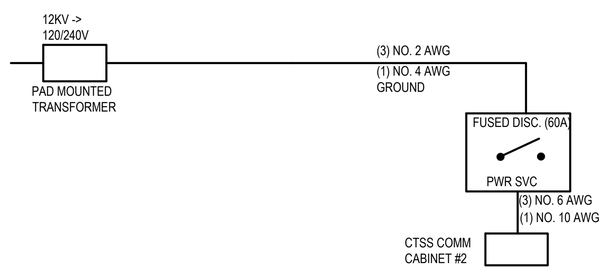
NOTES:

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4. SEE SHEET 598 FOR NODE SITE PLAN. SEE SHEETS 872-873 FOR COMMUNICATION DETAILS.

4 POWER SERVICE, I71, FACING WEST
SCALE: N.T.S.



5 WIRING DIAGRAM
SCALE: N.T.S.



6 POWER SERVICE CIRCUIT DIAGRAM
SCALE: N.T.S.

HORIZONTAL SCALE IN FEET
0 0 0

CIP: 540007-100012
PID NUMBER: 99733

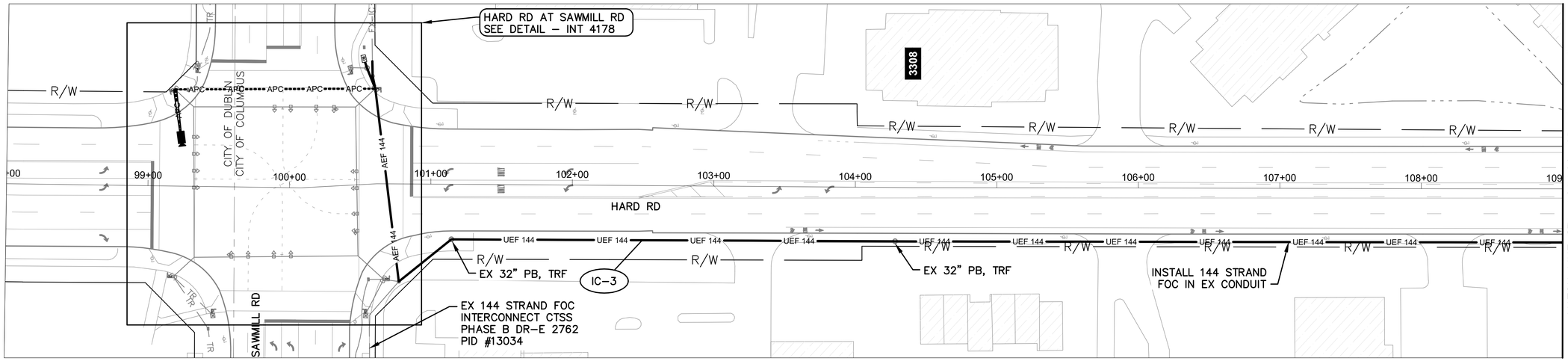
COMMUNICATIONS NODE POWER DETAILS
NODE #071121.8 – I-71 AT GEMINI PLACE

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

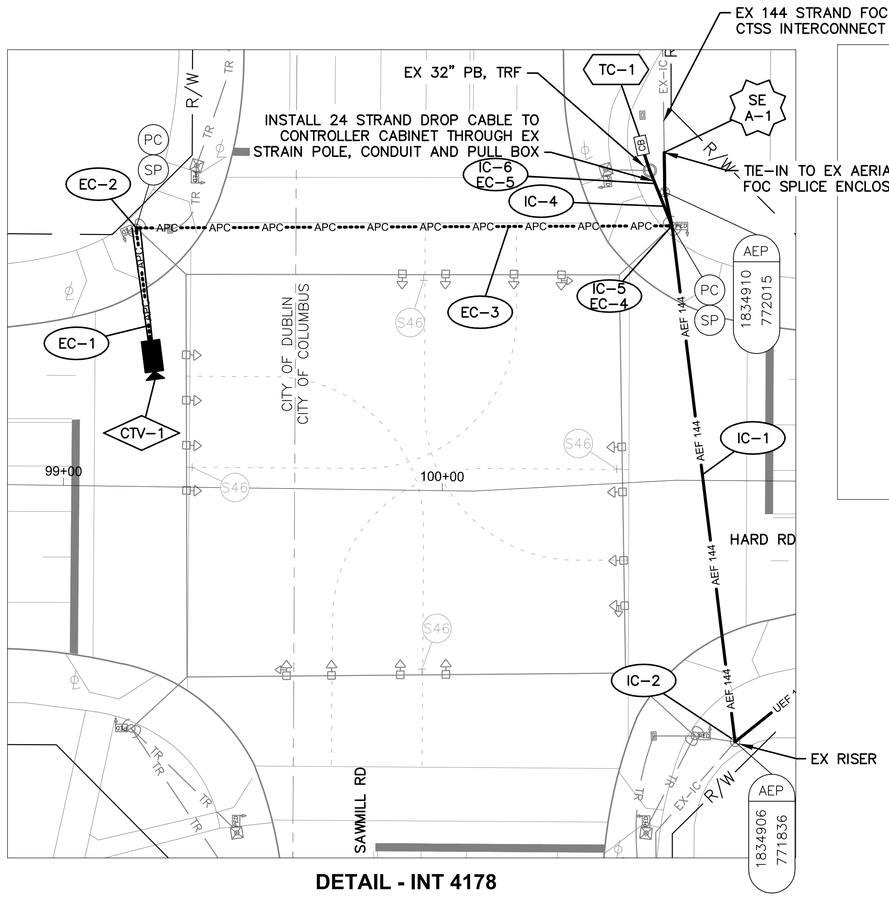
346
915

3378-E

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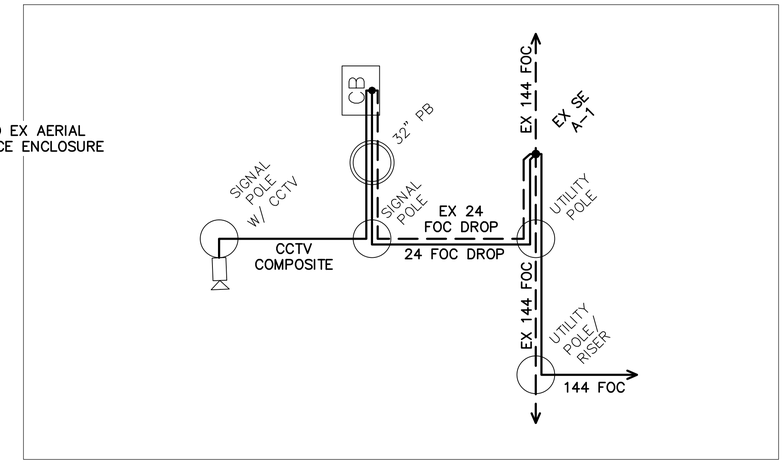


HARD RD BETWEEN STATION 98+00 AND 109+00



DETAIL - INT 4178

0 20 40
HORIZONTAL
SCALE IN FEET



CABLE SCHEMATIC - INT 4178
NOT TO SCALE

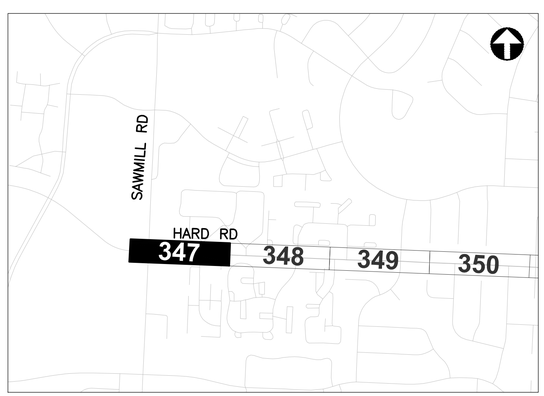
NOTES:

1. SEE SHEET 352 FOR QUANTITIES.
2. SEE SHEETS 615 & 679 FOR COMMUNICATION DETAILS.

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CITY OF COLUMBUS
UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 313 FOR
INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

3378-E

0 40 80
HORIZONTAL
SCALE IN FEET

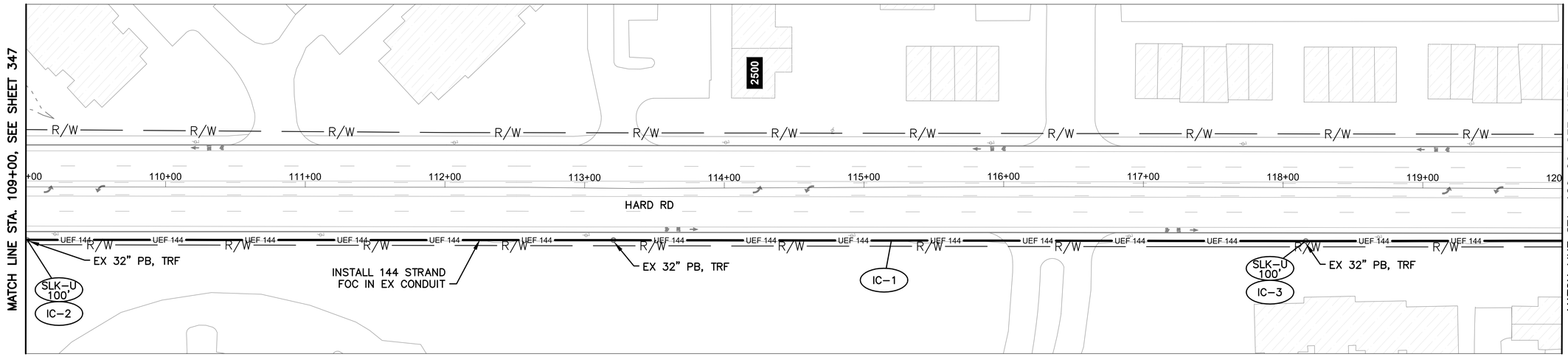
CIP: 540007-100012
PID NUMBER: 99733

INTERCONNECT PLAN
HARD RD BETWEEN STA. 98+00 AND 109+00, INT 4178

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

347
915

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HARD RD BETWEEN STATION 109+00 AND 120+00

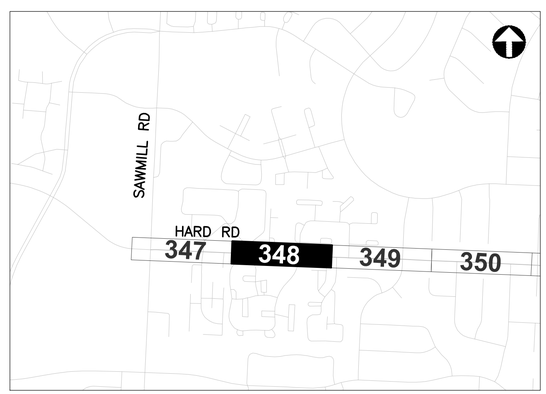
NOTES:

1. SEE SHEET 352 FOR QUANTITIES.
2. SEE SHEET 615 FOR COMMUNICATION DETAILS.

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CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 313 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

3378-E

HORIZONTAL SCALE IN FEET
0 40 80

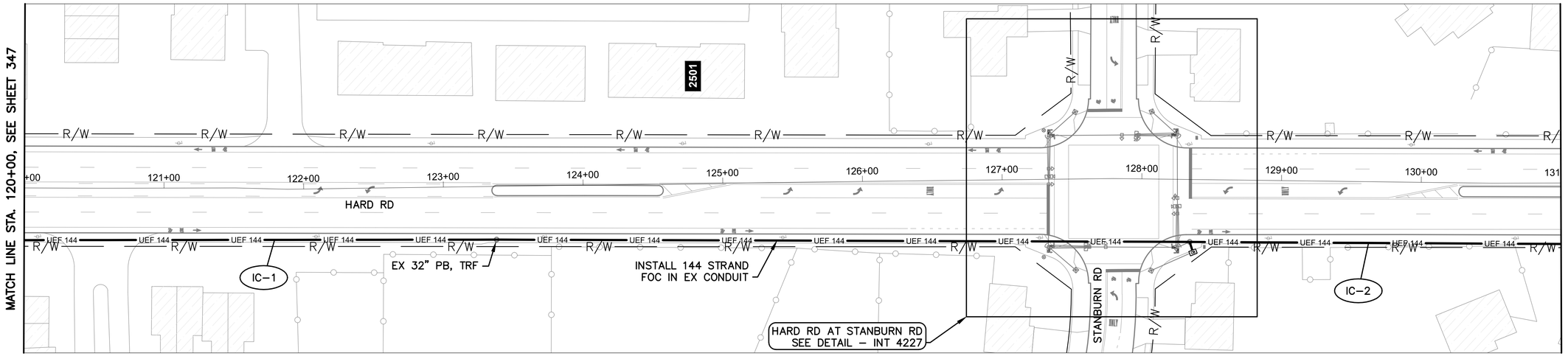
CIP: 540007-100012
PID NUMBER: 99733

INTERCONNECT PLAN
HARD RD BETWEEN STA. 109+00 AND 120+00

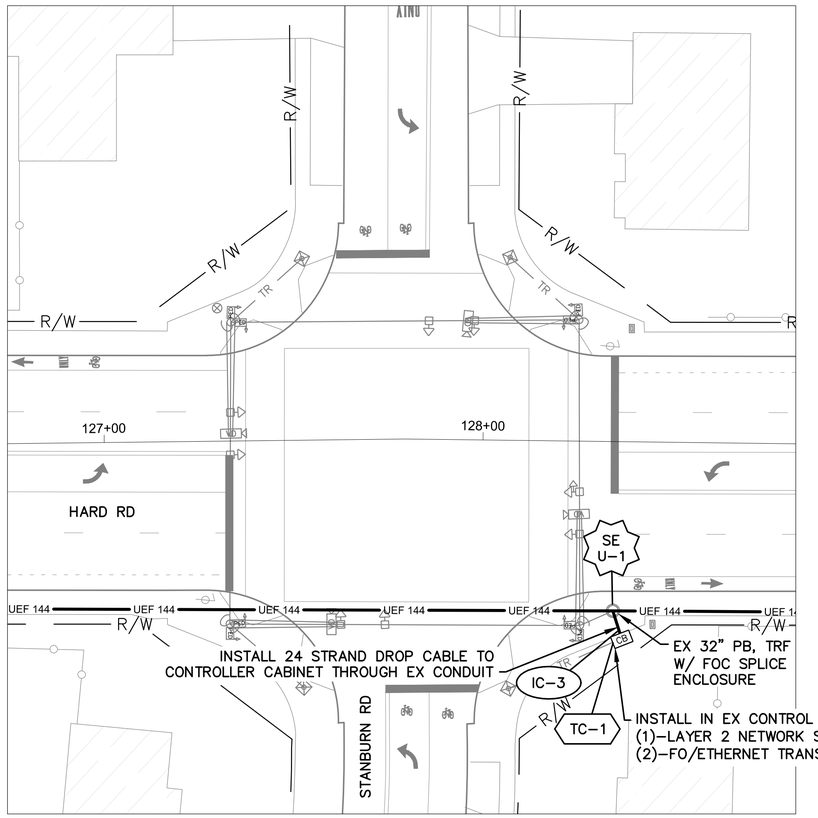
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

348
915

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HARD RD BETWEEN STATION 120+00 AND 131+00



DETAIL - INT 4227

0 20 40
HORIZONTAL
SCALE IN FEET

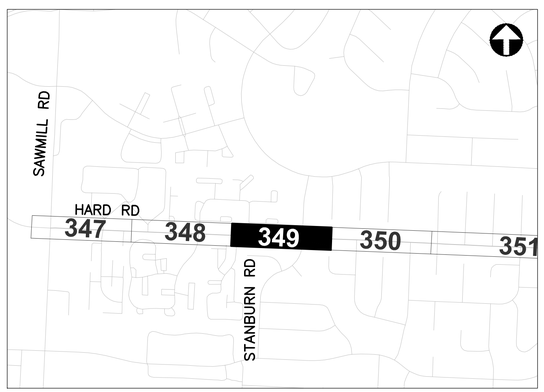
NOTES:

1. SEE SHEET 352 FOR QUANTITIES.
2. SEE SHEETS 615 & 678 FOR COMMUNICATION DETAILS.

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CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 313 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

3378-E

0 40 80
HORIZONTAL
SCALE IN FEET

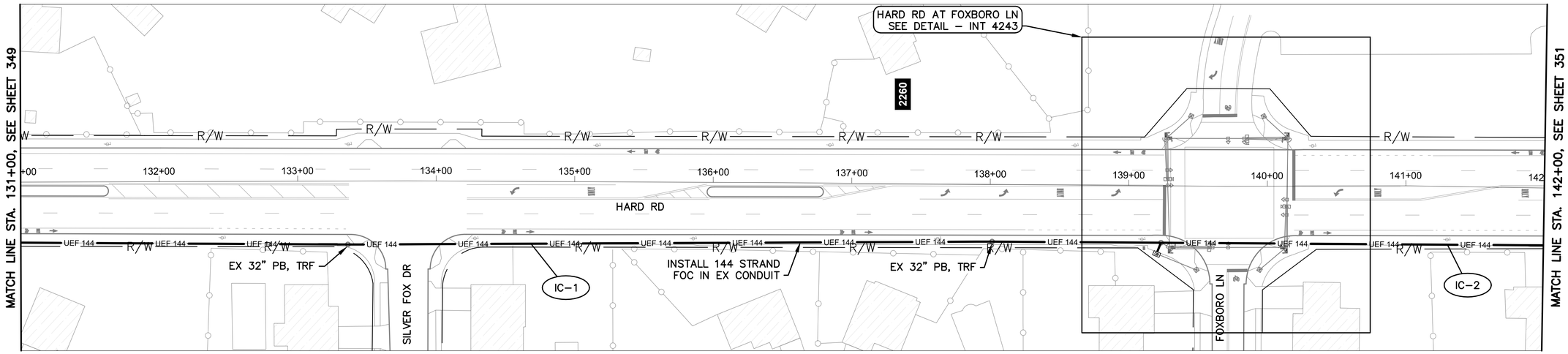
CIP: 540007–100012
PID NUMBER: 99733

INTERCONNECT PLAN
HARD RD BETWEEN STA. 120+00 AND 131+00, INT 4227

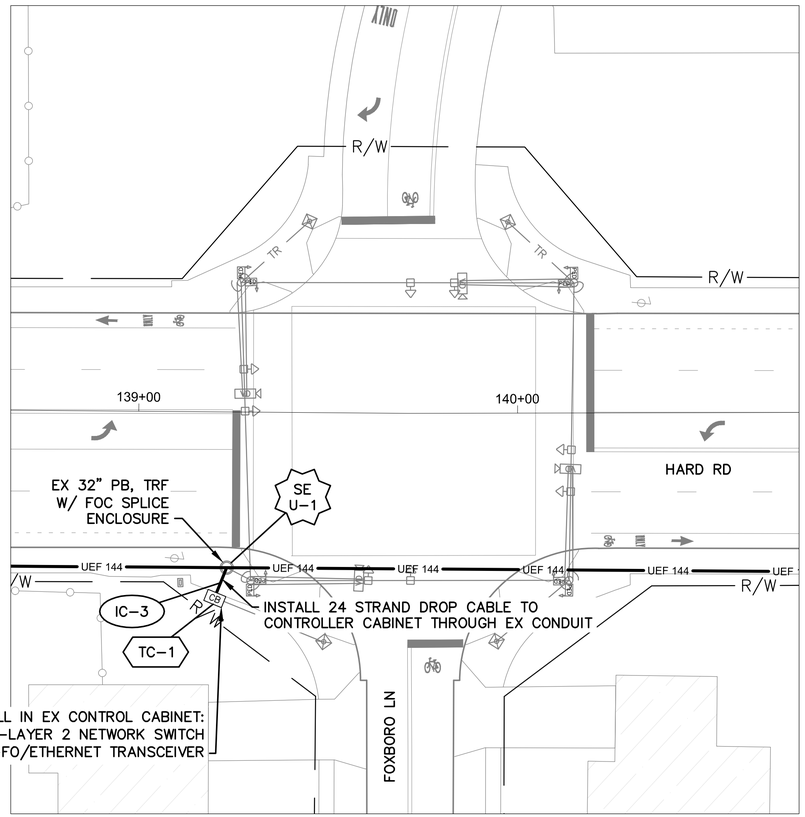
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

349
915

J:\Jobs\63721 ctss phase e\TECHPROD\Sheets\CTSS_PhE_Trunk3_HARD_INTERCONNECT.dwg – HARD–2 layout ~ last saved by: gburch 09/05/2018 08:24am ~ printed 09/11/2018 11:38am PSLTS: 1 LTS: 1 CAS: 1:1



HARD RD BETWEEN STATION 131+00 AND 142+00



DETAIL - INT 4243

0 20 40
HORIZONTAL
SCALE IN FEET

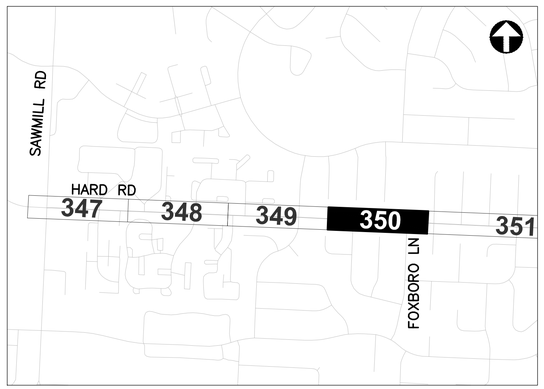
NOTES:

1. SEE SHEET 352 FOR QUANTITIES.
2. SEE SHEETS 615 & 681 FOR COMMUNICATION DETAILS.

Ohio Utilities Protection Service
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www.oups.org

CITY OF COLUMBUS
UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 313 FOR
INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

3378-E

0 40 80
HORIZONTAL
SCALE IN FEET

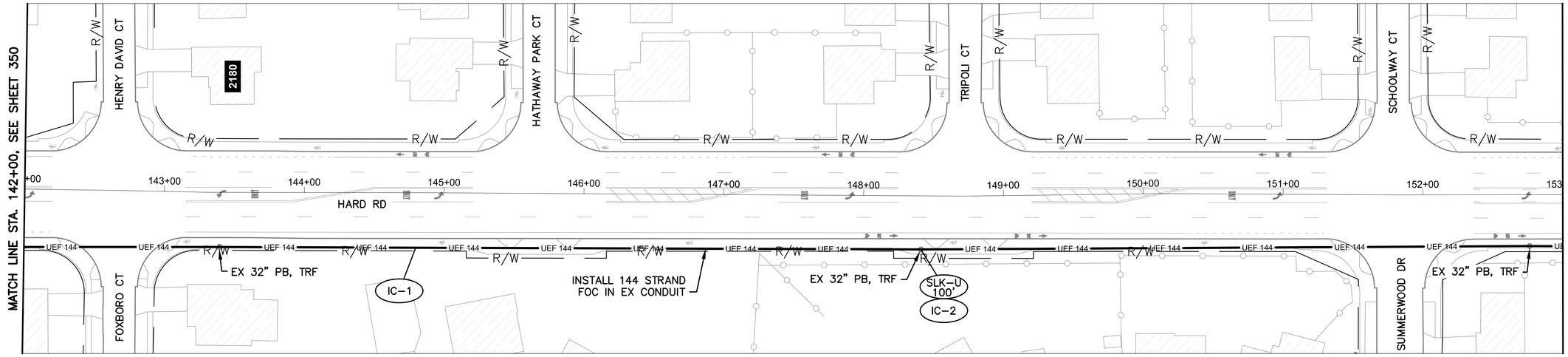
CIP: 540007–100012
PID NUMBER: 99733

INTERCONNECT PLAN
HARD RD BETWEEN STA. 131+00 AND 142+00, INT 4243

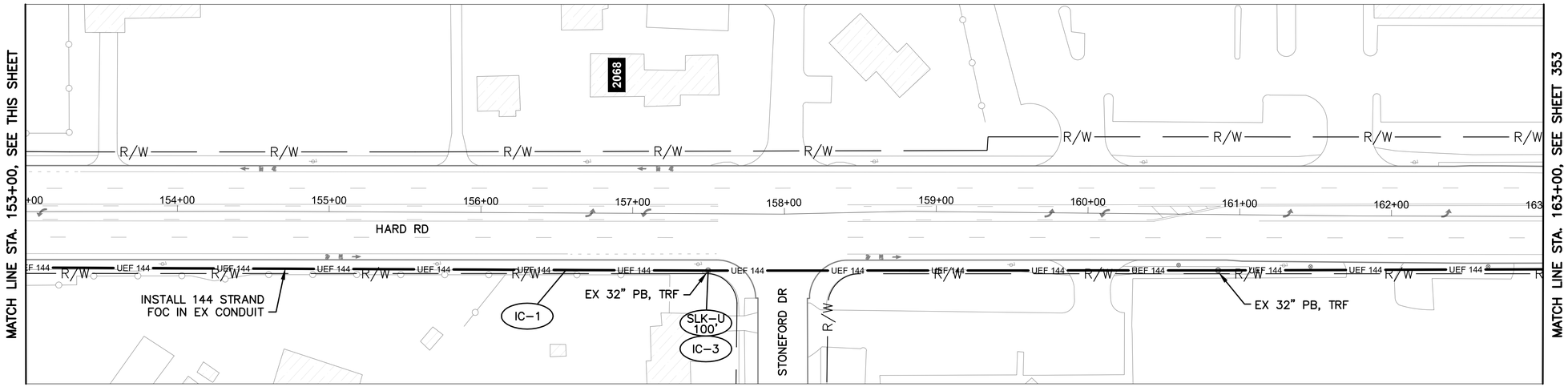
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

350
915

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HARD RD BETWEEN STATION 142+00 AND 153+00



HARD RD BETWEEN STATION 153+00 AND 163+00

NOTES:

1. SEE SHEET 352 FOR QUANTITIES.
2. SEE SHEET 615 FOR COMMUNICATION DETAILS.

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CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 313 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

3378-E

HORIZONTAL SCALE IN FEET
0 40 80

CIP: 540007-100012
PID NUMBER: 99733

INTERCONNECT PLAN
HARD RD BETWEEN STA. 142+00 AND 163+00

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

351
915

J:\Jobs\6\3721 ctss phase e\TECHPROD\Sheets\CTSS_PhE_Trunk3_HARD_INTERCONNECT.dwg ~ HARD-4 layout ~ last saved by: gburch 09/05/2018 08:24am ~ printed 08/11/2018 11:42pm PSLTS: 1 LTS: 1 CAS: 1:1

ESTIMATED QUANTITIES

SHEET NO.	REFERENCE NO.	LOCATION	STATION		202	625	632	632	632	632	632	632	632	632	633	633								
					EXISTING CONDUIT CLEANED, AS PER PLAN	BRACKET ARM, 30', AS PER PLAN	INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 144 STRAND	INTERCONNECT CABLE, MISC.: FIBER OPTIC DROP CABLE, 24 STRAND	INTERCONNECT CABLE, MISC.: FIBER OPTIC FUSION SPLICE	INTERCONNECT CABLE, MISC.: OVERLASH TO EXISTING INTERCONNECT	INTERCONNECT CABLE, MISC.: TERMINATION PANEL, 24 FIBER	INTERCONNECT, MISC.: SPLICE ENCLOSURE, CLAMSHELL, 288 SPLICE	MESSENGER WIRE, 7 STRAND, 1/4" DIAMETER WITH ACCESSORIES, AS PER PLAN	SIGNALIZATION, MISC.: CCTV COMPOSITE CABLE	SIGNALIZATION, MISC.: CCTV IP-CAMERA SYSTEM	CONTROLLER ITEM, MISC.: FIBER OPTIC ETHERNET TRANSCEIVER, SHORT RANGE	CONTROLLER ITEM, MISC.: LAYER 2 ETHERNET SWITCH							
			FROM	TO	FT	EACH	FT	FT	EACH	FT	EACH	EACH	FT	FT	EACH	EACH	EACH							
HARD RD. BETWEEN STA. 98+00 AND 109+00, INT 4178																								
347	EC-2	HARD RD	99+18, 68' LT			1																		
347	EC-1	HARD RD	99+18, 68' LT	99+22, 39' LT										30										
347	EC-3	HARD RD	99+22, 38' LT	100+62, 67' LT									143	286										
347	CTV-1	HARD RD	99+22, 39' LT												1									
347	TC-1	HARD RD	100+57, 89' LT					10			1			20										
347	IC-6	HARD RD	100+57, 89' LT	100+62, 67' LT	23			23																
347	EC-5	HARD RD	100+57, 89' LT	100+62, 67' LT										46										
347	IC-5	HARD RD	100+62, 67' LT					35																
347	EC-4	HARD RD	100+62, 67' LT											70										
347	IC-4	HARD RD	100+62, 67' LT	100+67, 67' LT				7		7														
347	SE A-1	HARD RD	100+67, 67' LT				75	125	204															
347	IC-1	HARD RD	100+67, 67' LT	100+77, 69' RT			146			146														
347	IC-2	HARD RD	100+77, 69' RT				35																	
347	IC-3	HARD RD	100+77, 69' RT	109+00, 38' RT	833		833																	
HARD RD. BETWEEN STA. 109+00 AND 120+00																								
348	IC-1	HARD RD	109+00, 38' RT	120+00, 37' RT	1,100		1,100																	
348	IC-2	HARD RD	109+00, 38' RT				100																	
348	IC-3	HARD RD	118+16, 38' RT				100																	
HARD RD. BETWEEN STA. 120+00 AND 131+00, INT 4227																								
349	IC-1	HARD RD	120+00, 37' RT	128+34, 45' RT	834		834																	
349	SE U-1	HARD RD	128+34, 45' RT				150	125	24			1												
349	IC-3	HARD RD	128+34, 45' RT	128+37, 52' RT	8			8																
349	IC-2	HARD RD	128+34, 45' RT	131+00, 44' RT	266		266																	
349	TC-1	HARD RD	128+37, 52' RT					10			1					2	1							
HARD RD. BETWEEN STA. 131+00 AND 142+00, INT 4243																								
350	IC-1	HARD RD	131+00, 44' RT	139+23, 41' RT	823		823																	
350	TC-1	HARD RD	139+20, 49' RT					10			1					2	1							
350	IC-3	HARD RD	139+20, 49' RT	139+23, 41' RT	9			9																
350	SE U-1	HARD RD	139+23, 41' RT				150	125	24			1												
350	IC-2	HARD RD	139+23, 41' RT	142+00, 41' RT	276		276																	
HARD RD. BETWEEN STA. 142+00 AND 163+00																								
351	IC-1	HARD RD	142+00, 41' RT	163+00, 37' RT	2,100		2,100																	
351	IC-2	HARD RD	148+41, 38' RT				100																	
351	IC-3	HARD RD	157+49, 37' RT				100																	
SHEET TOTAL					6,272	1	7,188	487	252	153	3	2	143	452	1	4	2	-	-	-	-	-	-	-

AERIAL SAG: 1.5% AERIAL SAG IS INCLUDED IN THE QUANTITIES FOR ANY AERIAL FIBER OR CABLE ITEMS.

3378-E

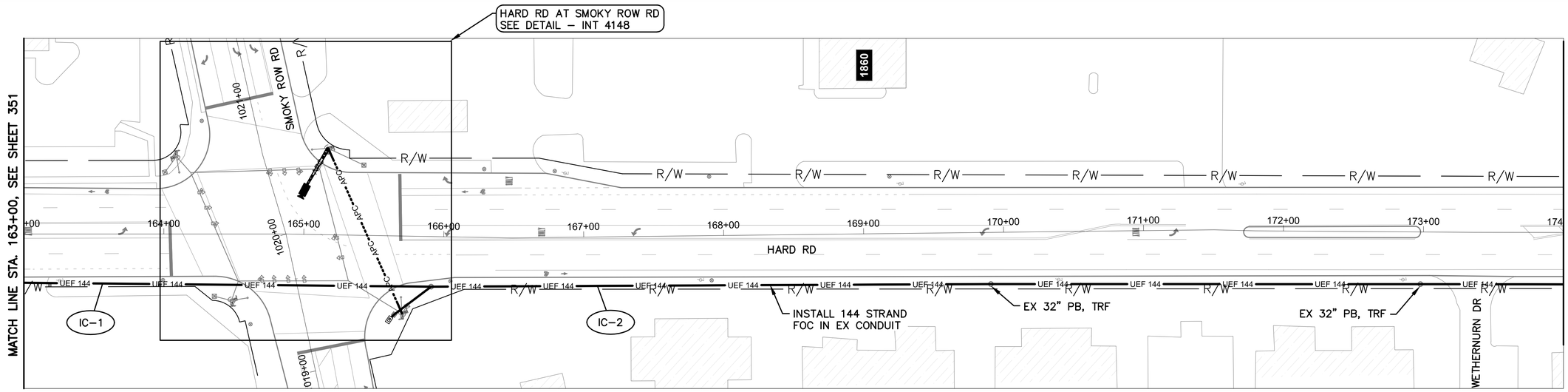
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PID NUMBER: 99733

HARD RD BETWEEN STA. 98+00 & 163+00
INTS 4178, 4227, 4243

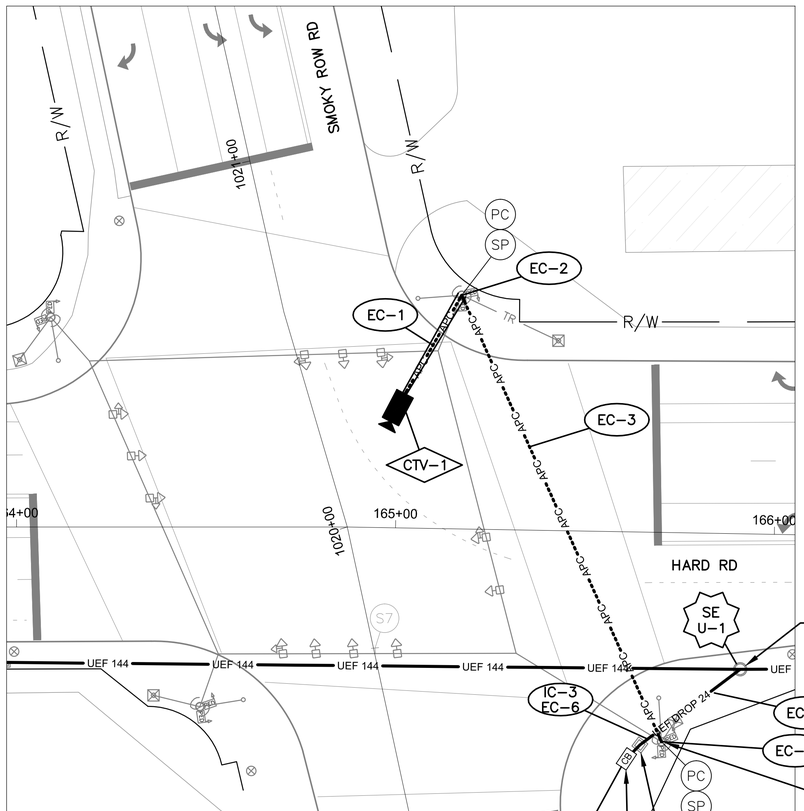
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

352
915

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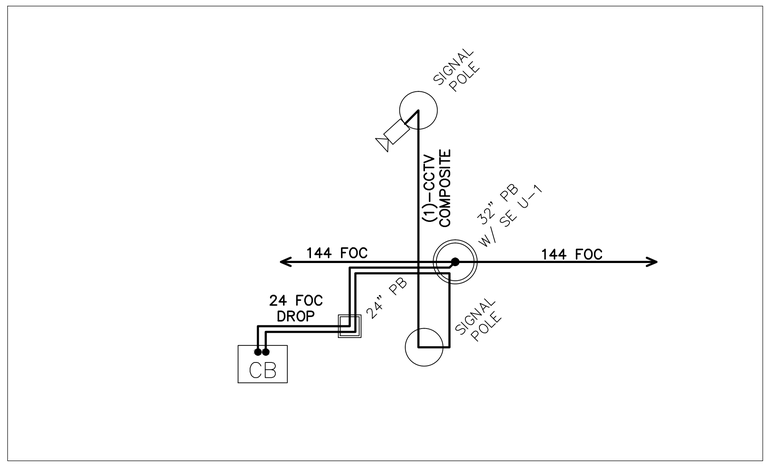


HARD RD BETWEEN STATION 163+00 AND 174+00



DETAIL - INT 4148

0 20 40
HORIZONTAL
SCALE IN FEET



CABLE SCHEMATIC - INT 4148
NOT TO SCALE

NOTES:

1. SEE SHEET 357 FOR QUANTITIES.
2. SEE SHEETS 615 & 682 FOR COMMUNICATION DETAILS.

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CITY OF COLUMBUS UTILITY LEGEND
- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 313 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

0 40 80
HORIZONTAL
SCALE IN FEET

CIP: 540007–100012
PID NUMBER: 99733

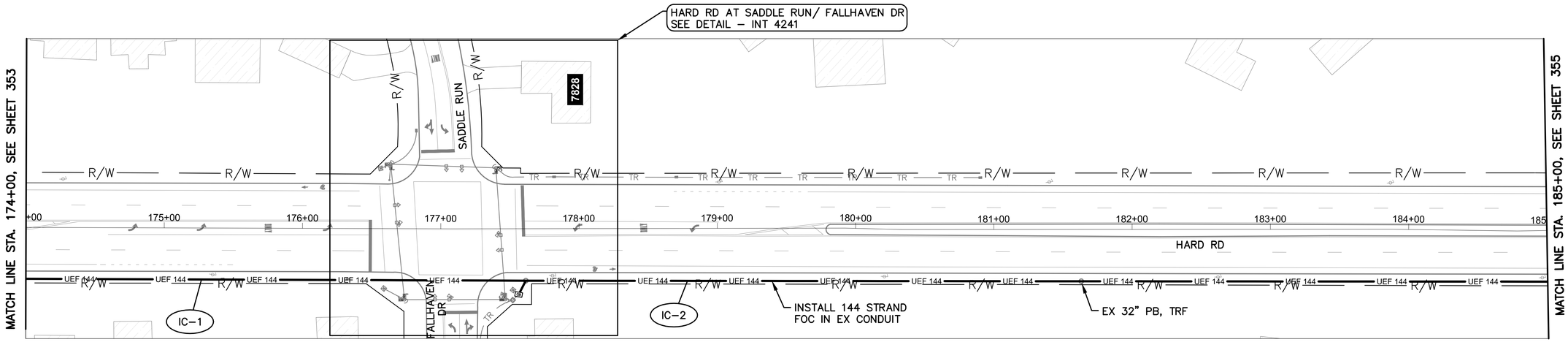
INTERCONNECT PLAN
HARD RD BETWEEN STA. 163+00 AND 174+00, INT 4148

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

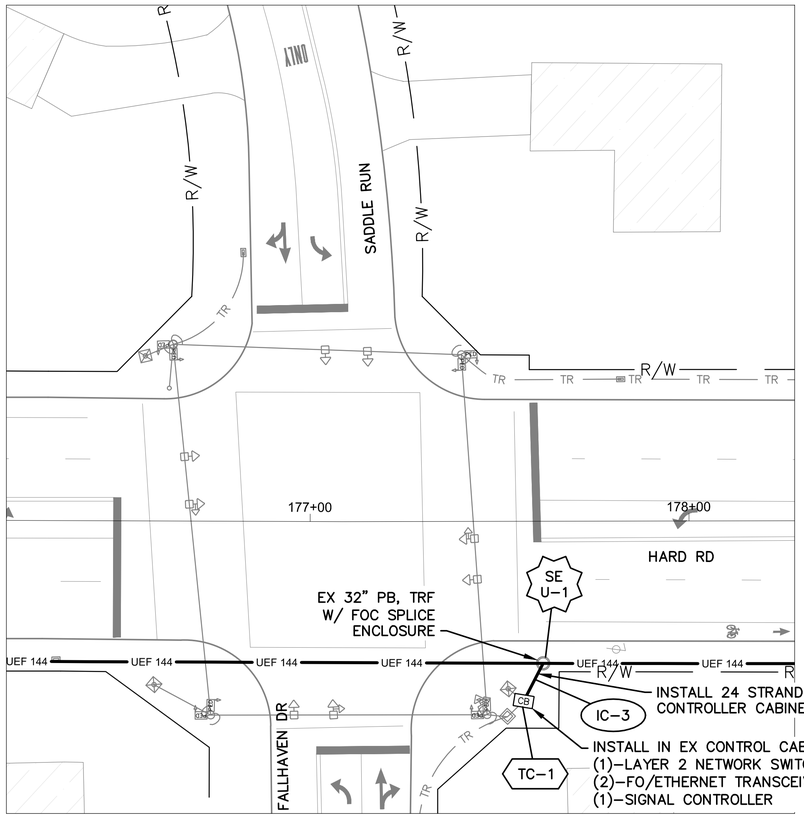
353
915

3378-E

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HARD RD BETWEEN STATION 174+00 AND 185+00



DETAIL - INT 4241

0 20 40
HORIZONTAL
SCALE IN FEET

NOTES:

1. SEE SHEET 357 FOR QUANTITIES.
2. SEE SHEETS 615 & 683 FOR COMMUNICATION DETAILS.

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CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 313 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

3378-E

0 40 80
HORIZONTAL
SCALE IN FEET

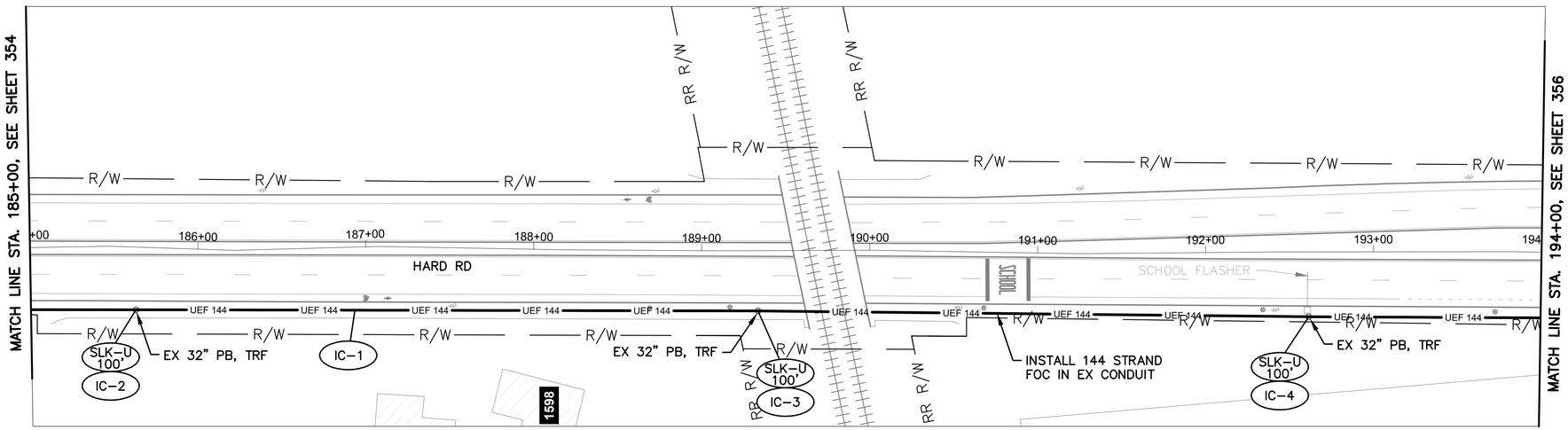
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PID NUMBER: 99733

INTERCONNECT PLAN
HARD RD BETWEEN STA. 174+00 AND 185+00, INT 4241

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

354
915

J:\Jobs\163721 ctss phase e\TECHPROD\Sheets\CTSS_PhE_Trunk3_HARD_INTERCONNECT.dwg ~ HARD-6 layout ~ last saved by: gburch 09/05/2018 08:24am ~ printed 09/11/2018 11:46pm PSLTS: 1 LTS: 1 CAS: 1:1



HARD RD BETWEEN STATION 185+00 AND 194+00

NOTES:

1. SEE SHEET 357 FOR QUANTITIES.
2. SEE SHEET 615 FOR COMMUNICATION DETAILS.

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CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 313 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

3378-E

HORIZONTAL SCALE IN FEET
0 40 80

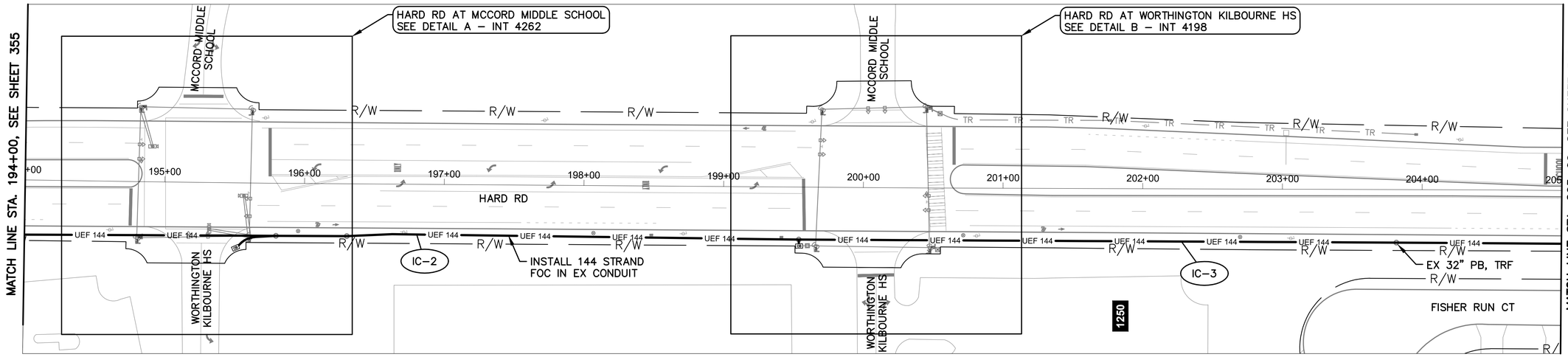
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PID NUMBER: 99733

INTERCONNECT PLAN
HARD RD BETWEEN STA. 185+00 AND 194+00

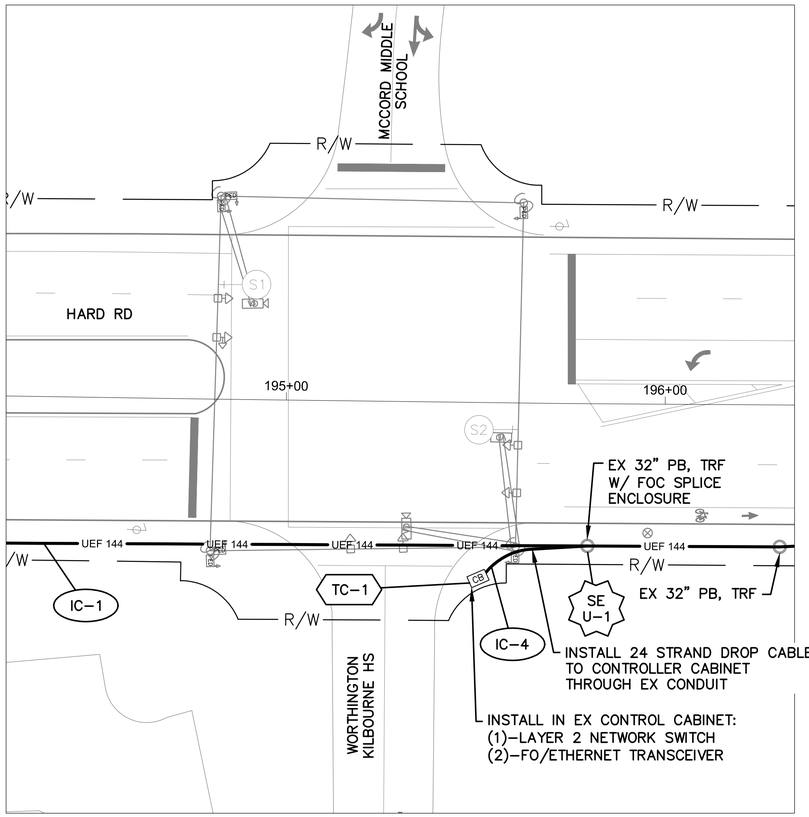
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

355
915

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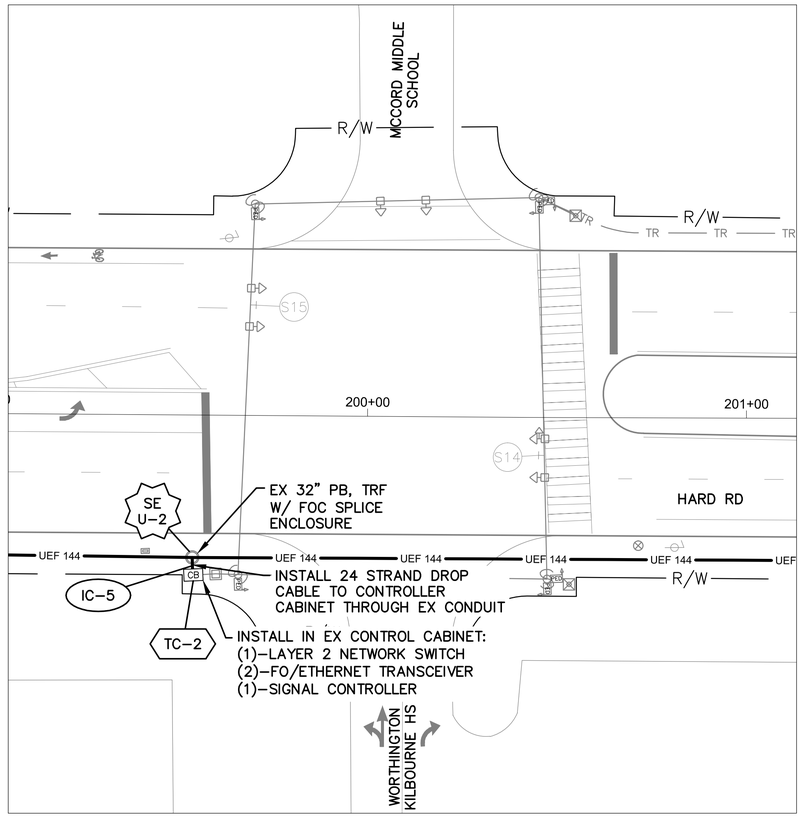


HARD RD BETWEEN STATION 194+00 AND 205+00



DETAIL A - INT 4262

0 20 40
HORIZONTAL SCALE IN FEET



DETAIL B - INT 4198

0 20 40
HORIZONTAL SCALE IN FEET

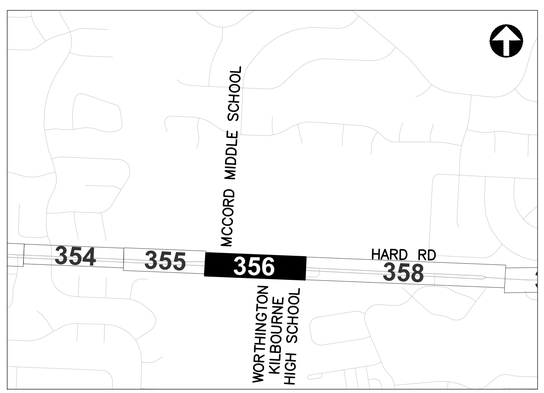
NOTES:

1. SEE SHEET 357 FOR QUANTITIES.
2. SEE SHEETS 615, 684, & 685 FOR COMMUNICATION DETAILS.

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CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 313 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

3378-E

0 40 80
HORIZONTAL SCALE IN FEET

CIP: 540007–100012
PID NUMBER: 99733

INTERCONNECT PLAN
HARD RD BETWEEN STA. 194+00 AND 205+00, INT 4262 AND 4198

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

356
915

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ESTIMATED QUANTITIES

SHEET NO.	REFERENCE NO.	LOCATION	STATION		202	625	632	632	632	632	632	632	632	632	633	633	633								
					EXISTING CONDUIT CLEANED, AS PER PLAN	BRACKET ARM, 30', AS PER PLAN	INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 144 STRAND	INTERCONNECT CABLE, MISC.: FIBER OPTIC DROP CABLE, 24 STRAND	INTERCONNECT CABLE, MISC.: FIBER OPTIC FUSION SPLICE	INTERCONNECT CABLE, MISC.: TERMINATION PANEL, 24 FIBER	INTERCONNECT, MISC.: SPLICE ENCLOSURE, CLAMSHELL, 288 SPLICE	MESSENGER WIRE, 7 STRAND, 1/4" DIAMETER WITH ACCESSORIES, AS PER PLAN	SIGNALIZATION, MISC.: CCTV COMPOSITE CABLE	SIGNALIZATION, MISC.: CCTV IP-CAMERA SYSTEM	CONTROLLER ITEM, MISC.: FIBER OPTIC ETHERNET TRANSCEIVER, SHORT RANGE	CONTROLLER ITEM, MISC.: LAYER 2 ETHERNET SWITCH	CONTROLLER UNIT, TYPE TS2/A2, AS PER PLAN							
			FROM	TO	FT	EACH	FT	FT	EACH	EACH	EACH	FT	FT	EACH	EACH	EACH	EACH							
HARD RD. BETWEEN STA. 163+00 AND 174+00, INT 4148																									
353	IC-1	HARD RD	163+00, 37' RT	165+91, 36' RT	291		291																		
353	CTV-1	HARD RD	165+02, 35' LT											1											
353	EC-1	HARD RD	165+02, 35' LT	165+16, 62' LT									30												
353	EC-2	HARD RD	165+16, 62' LT			1																			
353	EC-3	HARD RD	165+16, 62' LT	165+71, 55' RT								131	262												
353	TC-1	HARD RD	165+61, 60' RT					10		1			20		2	1	1								
353	IC-3	HARD RD	165+61, 60' RT	165+91, 36' RT	38			38																	
353	EC-6	HARD RD	165+61, 60' RT	165+91, 36' RT									76												
353	EC-4	HARD RD	165+71, 55' RT										70												
353	EC-5	HARD RD	165+71, 55' RT	165+91, 36' RT	28								56												
353	SE U-1	HARD RD	165+91, 36' RT				150	125	24		1														
353	IC-2	HARD RD	165+91, 36' RT	174+00, 37' RT	809		809																		
HARD RD. BETWEEN STA. 174+00 AND 185+00, INT 4241																									
354	IC-1	HARD RD	174+00, 37' RT	177+61, 38' RT	362		362																		
354	TC-1	HARD RD	177+56, 47' RT					10		1					2	1	1								
354	IC-3	HARD RD	177+56, 47' RT	177+61, 38' RT	11			11																	
354	SE U-1	HARD RD	177+61, 38' RT				150	125	24		1														
354	IC-2	HARD RD	177+61, 38' RT	185+00, 37' RT	739		739																		
HARD RD. BETWEEN STA. 185+00 AND 194+00																									
355	IC-1	HARD RD	185+00, 37' RT	194+00, 39' RT	899		899																		
355	IC-2	HARD RD	185+64, 37' RT				100																		
355	IC-3	HARD RD	189+34, 36' RT				100																		
355	IC-4	HARD RD	192+61, 39' RT				100																		
HARD RD. BETWEEN STA. 194+00 AND 205+00, INTS 4262 & 4198																									
356	IC-1	HARD RD	194+00, 39' RT	196+30, 37' RT	231		231																		
356	TC-1	HARD RD	195+51, 47' RT					10		1					2	1									
356	IC-4	HARD RD	195+51, 47' RT	195+79, 38' RT	32			32																	
356	SE U-1	HARD RD	195+79, 38' RT				150	125	24		1														
356	IC-2	HARD RD	196+30, 37' RT	199+53, 38' RT	324		324																		
356	SE U-2	HARD RD	199+53, 38' RT				150	125	24		1														
356	IC-5	HARD RD	199+53, 38' RT	199+54, 42' RT	5			5																	
356	IC-3	HARD RD	199+53, 38' RT	205+00, 38' RT	546		546																		
356	TC-2	HARD RD	199+54, 42' RT					10		1					2	1	1								
SHEET TOTAL					4,315	1	5,101	626	96	4	4	131	514	1	8	4	3	-	-	-	-	-	-	-	

AERIAL SAG: 1.5% AERIAL SAG IS INCLUDED IN THE QUANTITIES FOR ANY AERIAL FIBER OR CABLE ITEMS.

3378-E

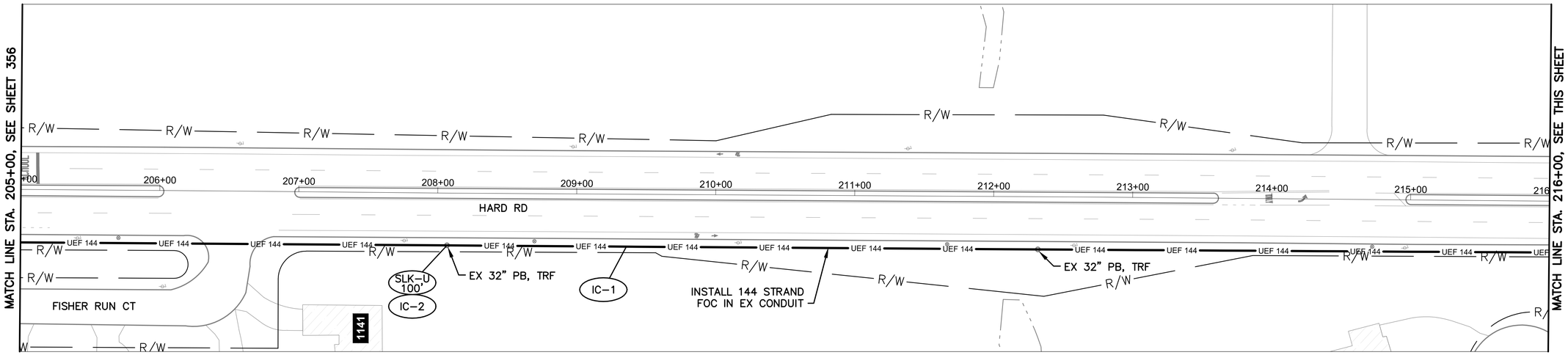
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PID NUMBER: 99733

HARD RD BETWEEN STA. 163+00 & 205+00
INTS 4148, 4241, 4262, 4198

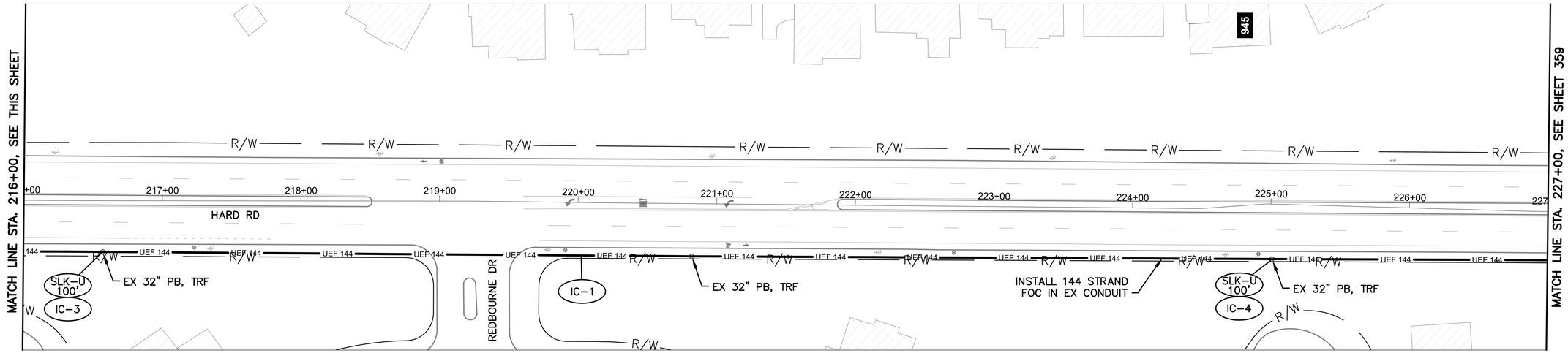
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

357
915

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HARD RD BETWEEN STATION 205+00 AND 216+00



HARD RD BETWEEN STATION 216+00 AND 227+00

NOTES:

1. SEE SHEET 361 FOR QUANTITIES.
2. SEE SHEET 615 FOR COMMUNICATION DETAILS.

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CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 313 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

3378-E

HORIZONTAL SCALE IN FEET
0 40 80

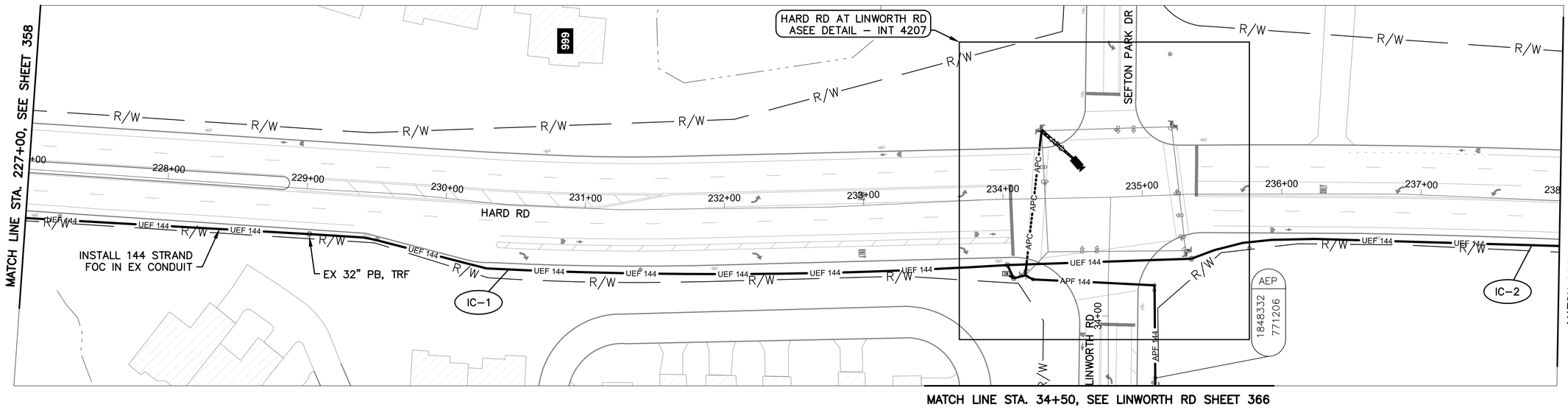
CIP: 540007–100012
PID NUMBER: 99733

INTERCONNECT PLAN
HARD RD BETWEEN STA. 205+00 AND 227+00

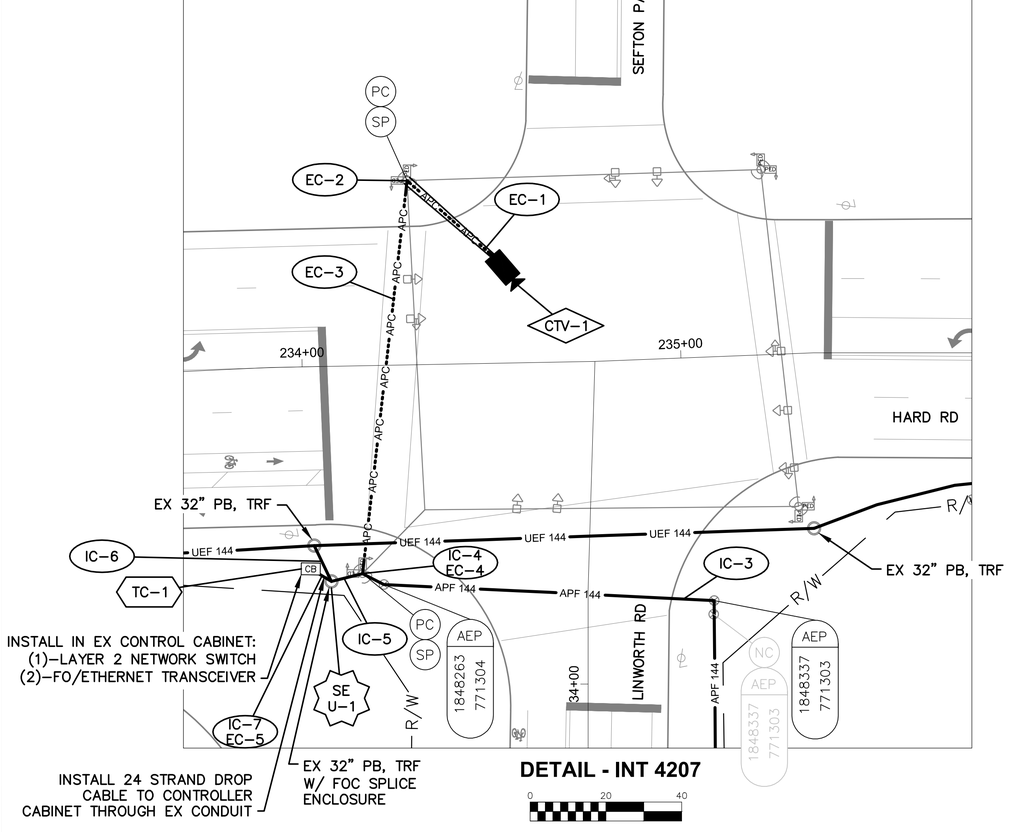
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

358
915

J:\Jobs\63721 ctss phase e\TECHPROD\Sheets\CTSS_PhE_Trunk3_HARD_INTERCONNECT.dwg ~ HARD–9 layout ~ last saved by: gburch 09/05/2018 08:24pm ~ printed 09/11/2018 11:51pm PSLTS: 1 LTS: 1 CAS: 1:1

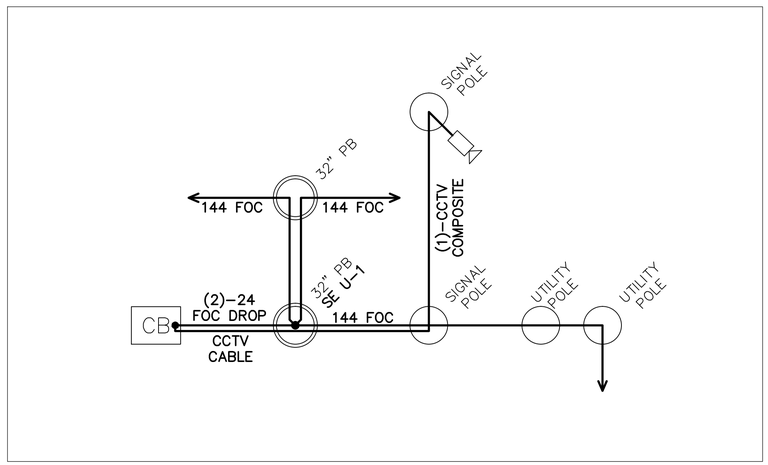


HARD RD BETWEEN STATION 227+00 AND 238+00



DETAIL - INT 4207

0 20 40
HORIZONTAL
SCALE IN FEET



CABLE SCHEMATIC - INT 4178

NOT TO SCALE

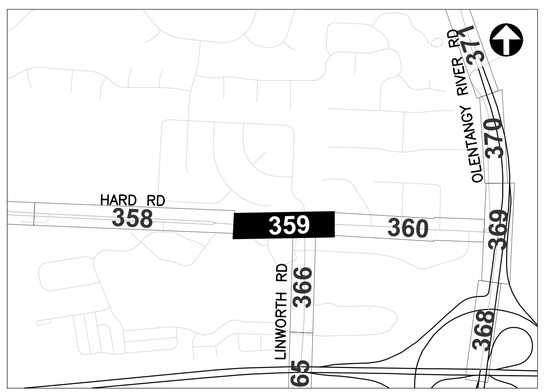
NOTES:

1. SEE SHEET 361 FOR QUANTITIES.
2. SEE SHEETS 615 & 686 FOR COMMUNICATION DETAILS.

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CITY OF COLUMBUS
UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 313 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

3378-E

0 40 80
HORIZONTAL
SCALE IN FEET

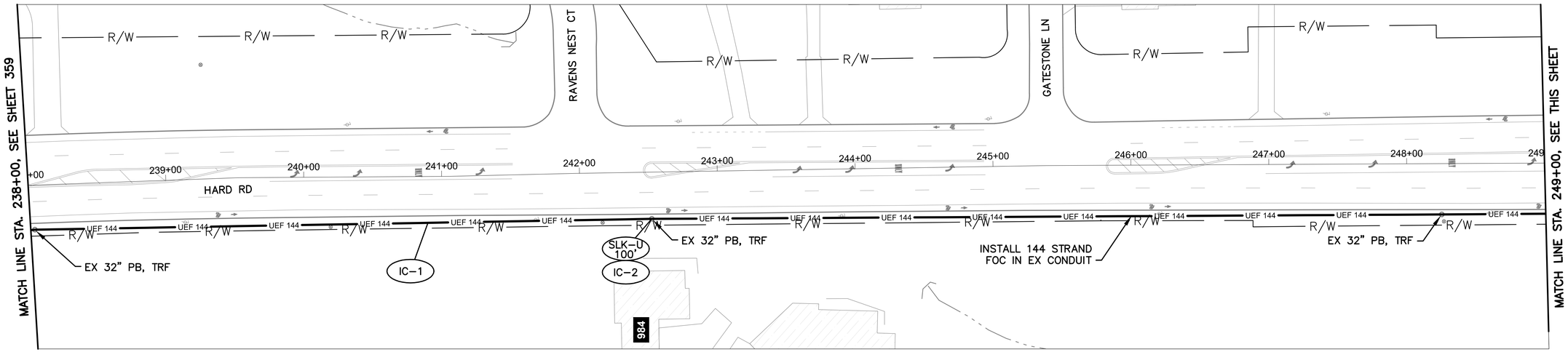
CIP: 540007–100012
PID NUMBER: 99733

INTERCONNECT PLAN
HARD RD BETWEEN STA. 227+00 AND 238+00, INT 4207

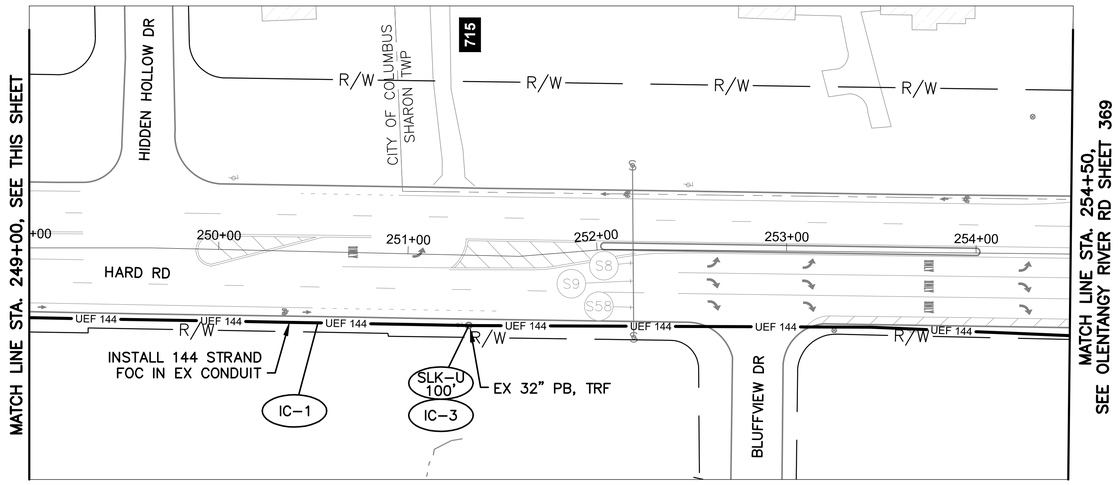
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

359
915

J:\Jobs\63721 ctss phase e\TECH\PROD\Sheets\CTSS_PhE_Trunk3_HARD_INTERCONNECT.dwg ~ HARD–10 layout ~ last saved by: gburch 09/05/2018 08:24am ~ printed 09/11/2018 11:53pm PSLTS: 1 LTS: 1 CAS: 1:1



HARD RD BETWEEN STATION 238+00 AND 249+00



HARD RD BETWEEN STATION 249+00 AND 254+50

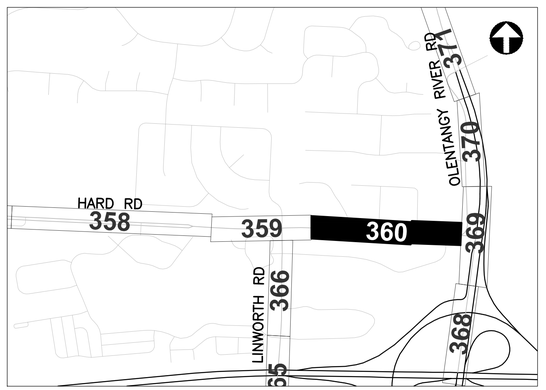
NOTES:

1. SEE SHEET 361 FOR QUANTITIES.
2. SEE SHEET 615 FOR COMMUNICATION DETAILS.

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CITY OF COLUMBUS
UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 313 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

3378-E

HORIZONTAL SCALE IN FEET
0 40 80

CIP: 540007-100012
PID NUMBER: 99733

INTERCONNECT PLAN
HARD RD BETWEEN STA. 238+00 AND 254+50

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

360
915

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ESTIMATED QUANTITIES

SHEET NO.	REFERENCE NO.	LOCATION	STATION		202	625	632	632	632	632	632	632	632	632	633	633									
					EXISTING CONDUIT CLEANED, AS PER PLAN	BRACKET ARM, 30', AS PER PLAN	INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 144 STRAND	INTERCONNECT CABLE, MISC.: FIBER OPTIC DROP CABLE, 24 STRAND	INTERCONNECT CABLE, MISC.: FIBER OPTIC FUSION SPLICE	INTERCONNECT CABLE, MISC.: TERMINATION PANEL, 24 FIBER	INTERCONNECT, MISC.: SPLICE ENCLOSURE, CLAMSHELL, 288 SPLICE	MESSENGER WIRE, 7 STRAND, 1/4" DIAMETER WITH ACCESSORIES, AS PER PLAN	SIGNALIZATION, MISC.: CCTV COMPOSITE CABLE	SIGNALIZATION, MISC.: CCTV IP-CAMERA SYSTEM	CONTROLLER ITEM, MISC.: FIBER OPTIC ETHERNET TRANSCEIVER, SHORT RANGE	CONTROLLER ITEM, MISC.: LAYER 2 ETHERNET SWITCH								
			FROM	TO	FT	EACH	FT	FT	EACH	EACH	EACH	FT	FT	EACH	EACH	EACH								
HARD RD. BETWEEN STA. 205+00 AND 227+00																									
358	IC-1	HARD RD	205+00, 38' RT	227+00, 35' RT	2,200		2,200																		
358	IC-2	HARD RD	208+06, 38' RT				100																		
358	IC-3	HARD RD	216+56, 37' RT				100																		
358	IC-4	HARD RD	225+01, 40' RT				100																		
HARD RD. BETWEEN STA. 227+00 AND 238+00, INT 4207																									
359	IC-1	HARD RD	227+00, 35' RT	234+02, 47' RT	708		708																		
359	TC-1	HARD RD	234+01, 53' RT					20		2			20		2	1									
359	IC-7	HARD RD	234+01, 53' RT	234+06, 57' RT	6			12																	
359	EC-5	HARD RD	234+01, 53' RT	234+14, 55' RT									30												
359	IC-6	HARD RD	234+02, 47' RT	234+06, 57' RT	10		20																		
359	IC-2	HARD RD	234+02, 47' RT	238+00, 33' RT	396		396																		
359	SE U-1	HARD RD	234+06, 57' RT				225	250	228		1														
359	IC-5	HARD RD	234+06, 57' RT	234+14, 55' RT	8		16																		
359	EC-3	HARD RD	234+14, 55' RT	234+28, 49' LT								106	212												
359	IC-4	HARD RD	234+14, 55' RT				35																		
359	EC-4	HARD RD	234+14, 55' RT										70												
359	IC-3	HARD RD	234+14, 55' RT	235+05, 136' RT			170					170													
359	EC-2	HARD RD	234+28, 49' LT			1																			
359	EC-1	HARD RD	234+28, 49' LT	234+50, 28' LT									30												
359	CTV-1	HARD RD	234+50, 28' LT											1											
HARD RD. BETWEEN STA. 238+00 AND 254+50																									
360	IC-1	HARD RD	238+00, 33' RT	254+50, 43' RT	1,648		1,648																		
360	IC-2	HARD RD	242+51, 34' RT				100																		
360	IC-3	HARD RD	251+32, 38' RT				100																		
SHEET TOTAL					4,976	1	5,918	282	228	2	1	276	362	1	2	1	-	-	-	-	-	-	-	-

AERIAL SAG: 1.5% AERIAL SAG IS INCLUDED IN THE QUANTITIES FOR ANY AERIAL FIBER OR CABLE ITEMS.

3378-E

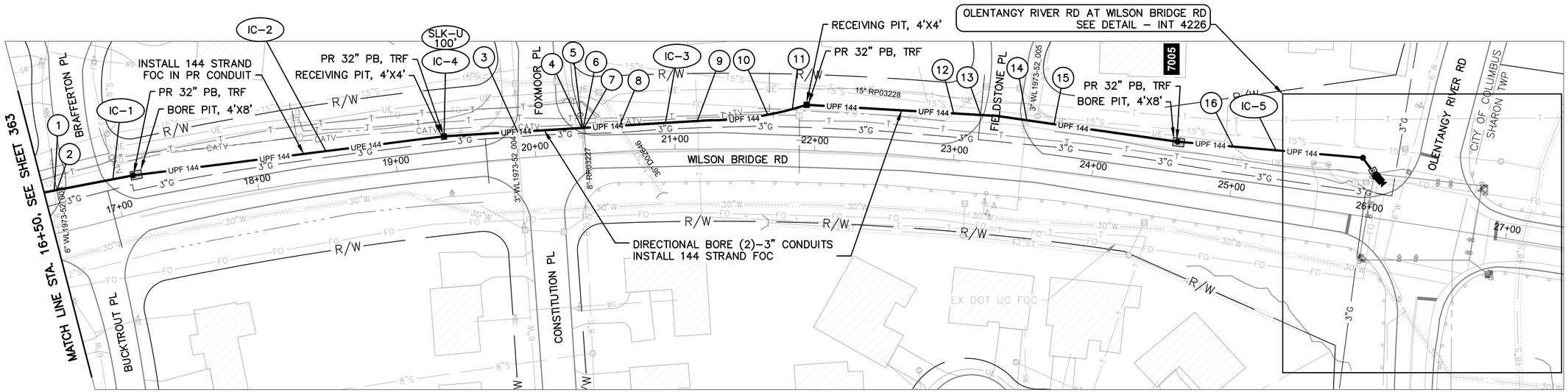
CIP: 540007-100012
PID NUMBER: 99733

HARD RD BETWEEN STA. 205+00 & 254+50
INT 4207

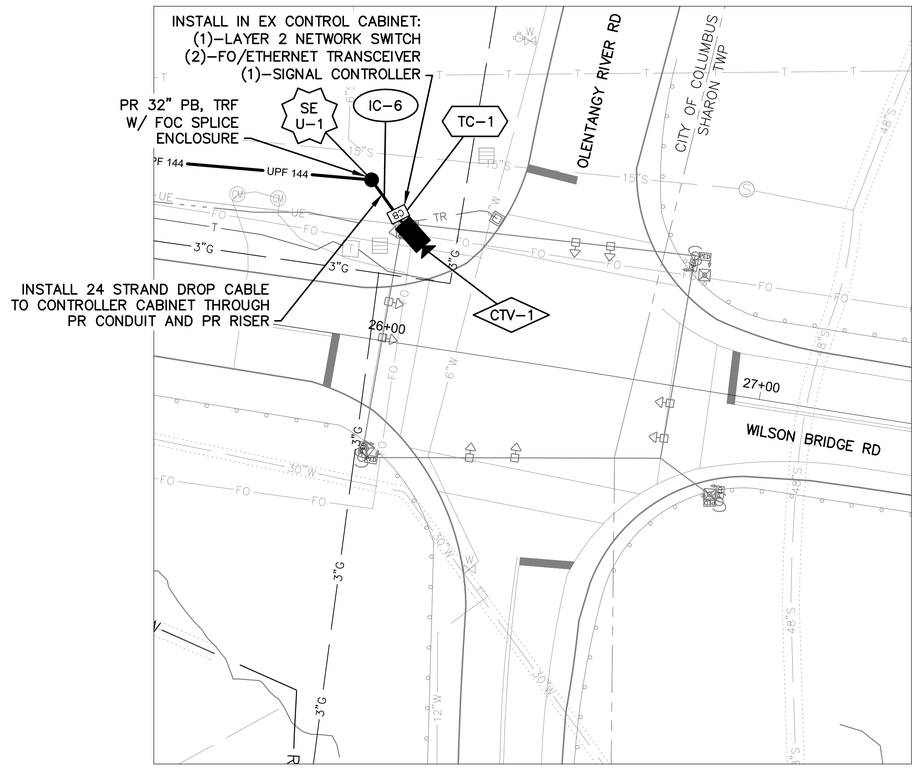
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

361
915

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WILSON BRIDGE RD BETWEEN STATION 16+50 AND 27+50



DETAIL - INT 4226

0 20 40
HORIZONTAL SCALE IN FEET

NOTES:

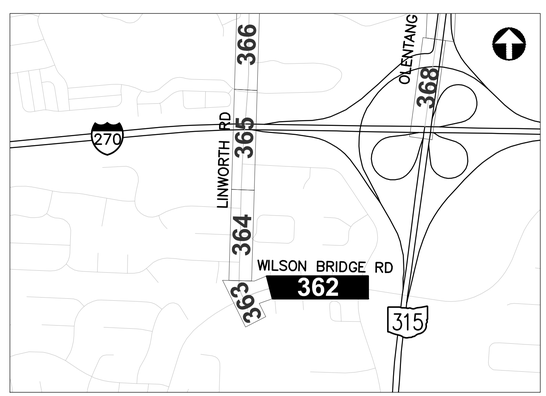
1. SEE SHEET 367 FOR QUANTITIES.
2. SEE SHEETS 615 & 691 FOR COMMUNICATION DETAILS.

(#) EXISTING UTILITY CROSSING. SEE UTILITY CROSSING INFO SHEET 325.

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CITY OF COLUMBUS UTILITY LEGEND

☒	SEWER
☒	WATER
☐	POWER
☐	LIGHTING



REFER TO SHEET 313 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

0 40 80
HORIZONTAL SCALE IN FEET

CIP: 540007-100012
PID NUMBER: 99733

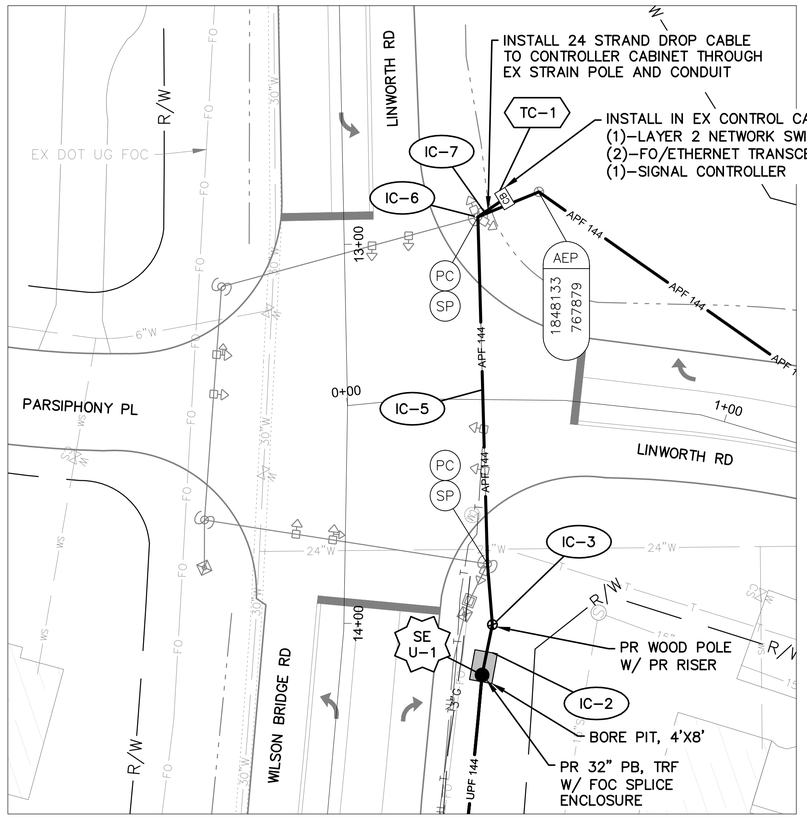
INTERCONNECT PLAN
WILSON BRIDGE RD BETWEEN STA. 16+50 AND 27+50, INT 4226

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E - FINAL SUBMITTAL

362
915

3378-E

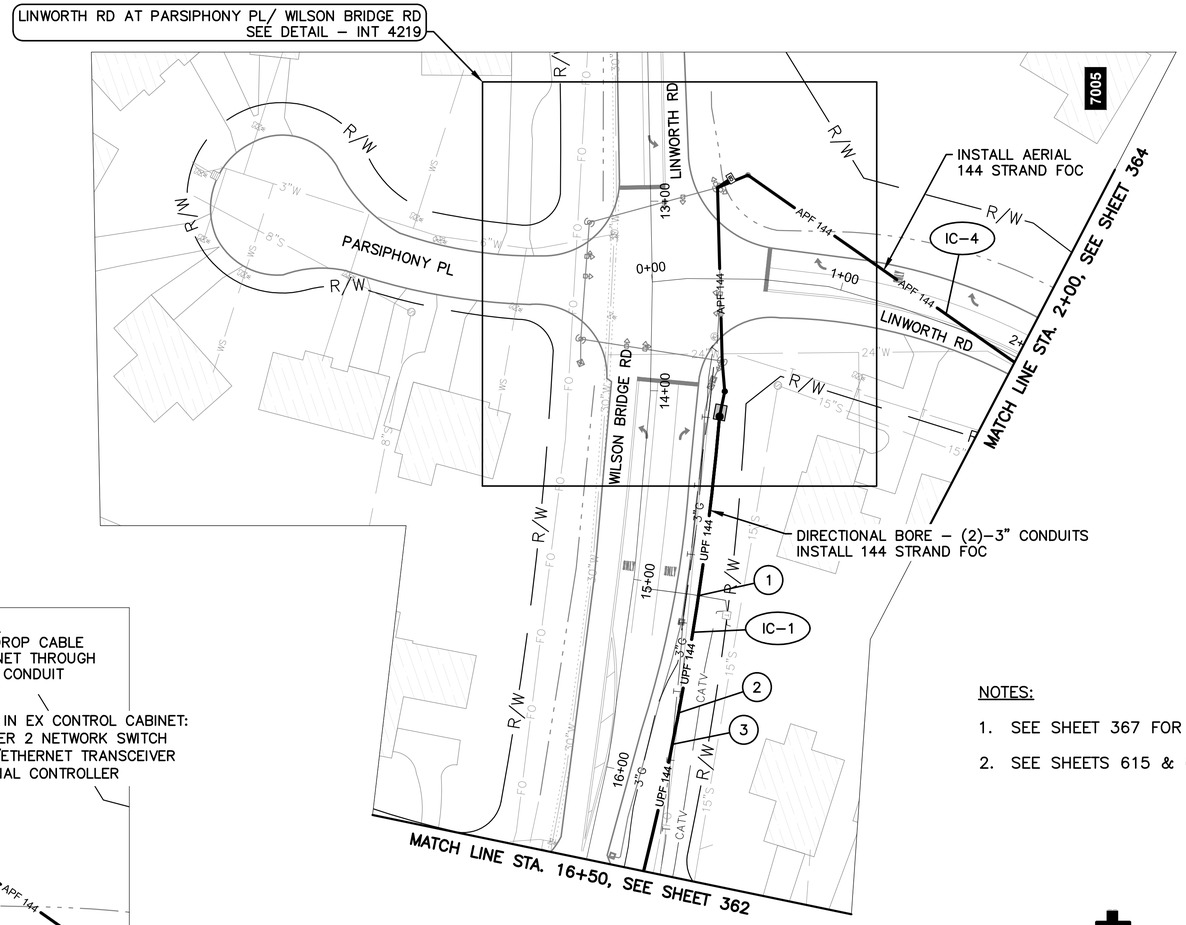
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DETAIL - INT 4219

0 20 40

HORIZONTAL SCALE IN FEET



LINWORTH RD BETWEEN STATION 0+00 AND 2+00

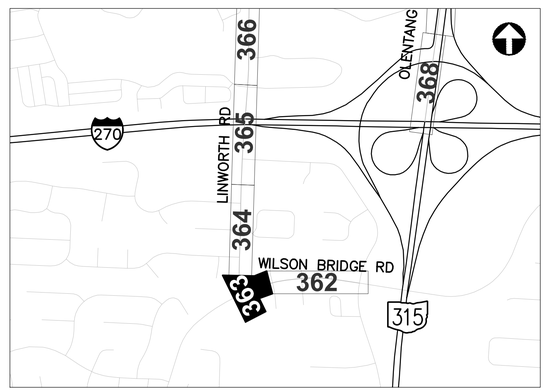
NOTES:

1. SEE SHEET 367 FOR QUANTITIES.
2. SEE SHEETS 615 & 690 FOR COMMUNICATION DETAILS.

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CITY OF COLUMBUS UTILITY LEGEND

- ☒ SEWER
- ☒ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 313 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

0 40 80
HORIZONTAL SCALE IN FEET

CIP: 540007–100012
PID NUMBER: 99733

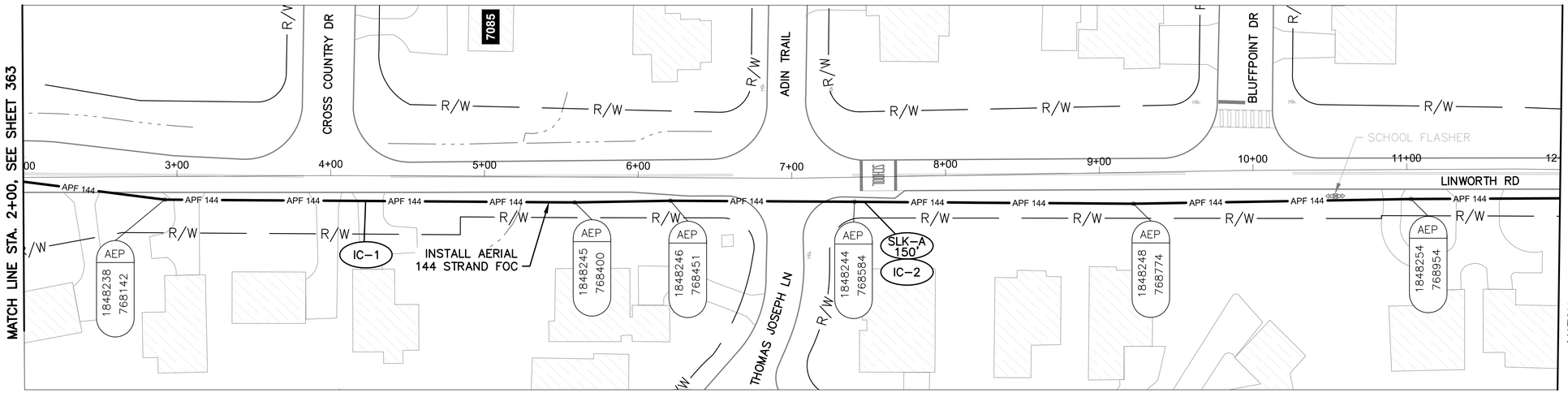
INTERCONNECT PLAN
LINWORTH RD BETWEEN STA. 0+00 AND 2+00, INT 4219

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

363
915

3378-E

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LINWORTH RD BETWEEN STATION 2+00 AND 12+00

NOTES:

1. SEE SHEET 367 FOR QUANTITIES.
2. SEE SHEET 615 FOR COMMUNICATION DETAILS.

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CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 313 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

3378-E

HORIZONTAL SCALE IN FEET
0 40 80

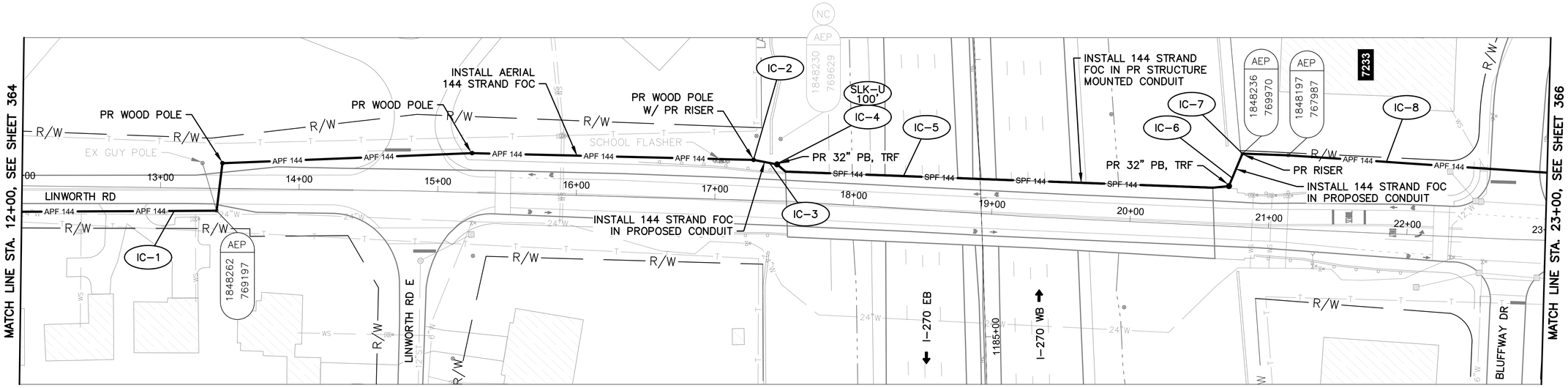
CIP: 540007-100012
PID NUMBER: 99733

INTERCONNECT PLAN
LINWORTH RD BETWEEN STA. 2+00 AND 12+00

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

364
915

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LINWORTH RD BETWEEN STATION 12+00 AND 23+00

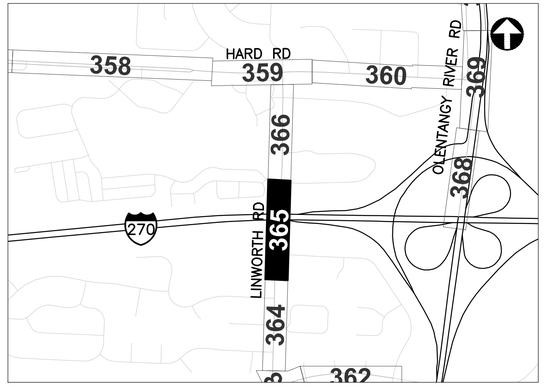
NOTES:

1. SEE SHEET 367 FOR QUANTITIES.
2. SEE SHEET 615 FOR COMMUNICATION DETAILS.

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CITY OF COLUMBUS UTILITY LEGEND

☒	SEWER
☒	WATER
☐	POWER
☐	LIGHTING



REFER TO SHEET 313 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

3378-E

HORIZONTAL SCALE IN FEET
0 40 80

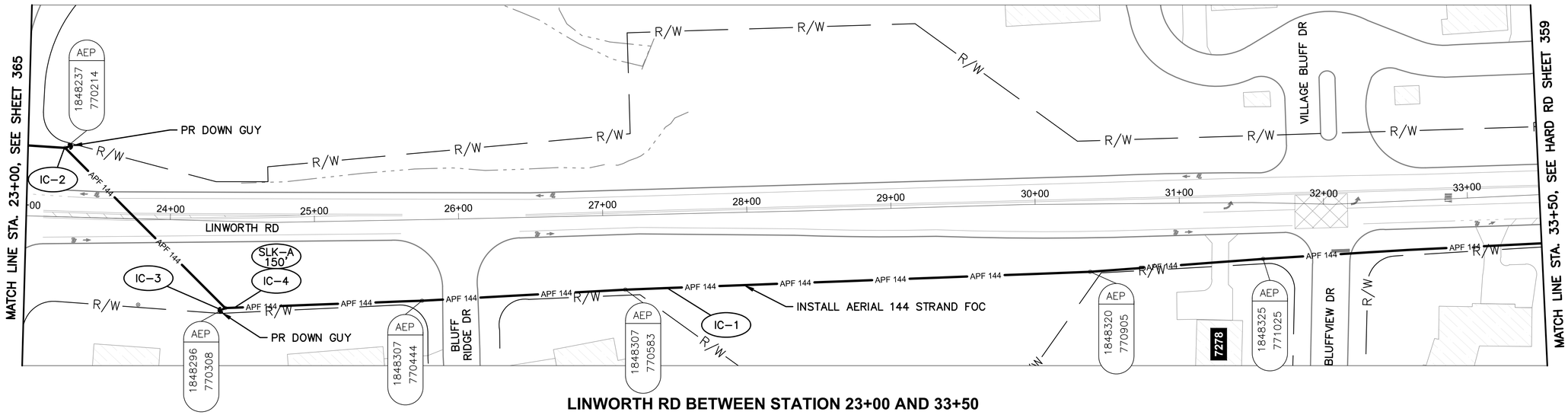
CIP: 540007-100012
PID NUMBER: 99733

INTERCONNECT PLAN
LINWORTH RD BETWEEN STA. 12+00 AND 23+00

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

365
915

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LINWORTH RD BETWEEN STATION 23+00 AND 33+50

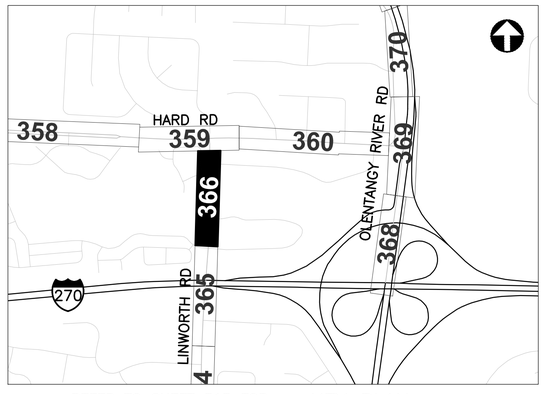
NOTES:

1. SEE SHEET 367 FOR QUANTITIES.
2. SEE SHEET 615 FOR COMMUNICATION DETAILS.

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CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 313 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

3378-E

HORIZONTAL SCALE IN FEET
0 40 80

CIP: 540007-100012
PID NUMBER: 99733

INTERCONNECT PLAN
LINWORTH RD BETWEEN STA. 23+00 AND 33+50

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

366
915

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ESTIMATED QUANTITIES

SHEET NO.	REFERENCE NO.	LOCATION	STATION		202	625	625	625	625	625	632	632	632	632	632	632	632	632	632	632	633	633	633
					EXISTING CONDUIT CLEANED, AS PER PLAN	CONDUIT, CONCRETE ENCASED, 2-3", 725.05, AS PER PLAN	CONDUIT, JACKED OR DRILLED, 3", AS PER PLAN	CONDUIT, MISC.: 4" CONDUIT, FIBER-GLASS REINFORCED, ATTACHED TO STRUCTURE	PULL BOX, CONCRETE 32", AS PER PLAN	TRENCH, 36" DEEP, AS PER PLAN	CONDUIT RISER, 2", 725.04, AS PER PLAN	DOWN GUY	INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 144 STRAND	INTERCONNECT CABLE, MISC.: FIBER OPTIC DROP CABLE, 24 STRAND	INTERCONNECT CABLE, MISC.: FIBER OPTIC FUSION SPLICE	INTERCONNECT CABLE, MISC.: TERMINATION PANEL, 24 FIBER	INTERCONNECT, MISC.: SPLICE ENCLOSURE, CLAMSHELL, 288 SPLICE	MESSENGER WIRE, 7 STRAND, 1/4" DIAMETER WITH ACCESSORIES, AS PER PLAN	SIGNALIZATION, MISC.: CCTV COMPOSITE CABLE	SIGNALIZATION, MISC.: CCTV IP-CAMERA SYSTEM	WOOD POLE, CLASS 5, 35 FT	CONTROLLER ITEM, MISC.: FIBER OPTIC ETHERNET TRANSCEIVER, SHORT RANGE	CONTROLLER ITEM, MISC.: LAYER 2 ETHERNET SWITCH	CONTROLLER UNIT, TYPE TS2/A2, AS PER PLAN
			FROM	TO	FT	FT	FT	FT	EACH	FT	EACH	EACH	FT	FT	EACH	EACH	EACH	FT	FT	EACH	EACH	EACH	EACH	EACH
WILSON BRIDGE RD. BETWEEN STA. 16+50 AND 27+50, INT 4226																								
362	IC-1	WILSON BRIDGE RD	16+50, 23' LT	17+15, 23' LT			130						65											
362	IC-2	WILSON BRIDGE RD	17+15, 23' LT	19+34, 17' LT		222			2	222			222											
362	IC-3	WILSON BRIDGE RD	19+34, 17' LT	24+56, 15' LT			1,054		1				527											
362	IC-4	WILSON BRIDGE RD	19+34, 17' LT										100											
362	IC-5	WILSON BRIDGE RD	24+56, 15' LT	25+70, 22' LT		114				114			114											
362	SE U-1	WILSON BRIDGE RD	25+70, 22' LT						1				75	125	12		1							
362	IC-6	WILSON BRIDGE RD	25+70, 22' LT	25+99, 31' LT		32				32				32				27						
362	TC-1	WILSON BRIDGE RD	25+99, 31' LT								1			10		1			20			2	1	1
362	CTV-1	WILSON BRIDGE RD	25+99, 31' LT																35	1				
LINWORTH RD. BETWEEN STA. 0+00 AND 2+00, INT 4219																								
363	IC-1	LINWORTH RD/WILSON BRIDGE RD	16+50, 23' LT	0+36, 73' RT			196						98											
363	IC-6	LINWORTH RD	0+33, 48' LT											35										
363	IC-7	LINWORTH RD	0+33, 48' LT	0+40, 53' LT	9									9										
363	IC-5	LINWORTH RD	0+33, 48' LT	0+40, 61' RT										131										
363	SE U-1	LINWORTH RD	0+36, 73' RT						1				150	125	24		1							
363	IC-2	LINWORTH RD	0+36, 73' RT	0+40, 61' RT		13				13			13	13										
363	TC-1	LINWORTH RD	0+40, 53' LT											10		1						2	1	1
363	IC-3	LINWORTH RD	0+40, 61' RT								1		35	35							1			
363	IC-4	LINWORTH RD	0+40, 61' RT	2+00, 3' RT									303					303						
LINWORTH RD. BETWEEN STA. 2+00 AND 12+00																								
364	IC-1	LINWORTH RD	2+00, 3' RT	12+00, 19' RT									1,015					1,015						
364	IC-2	LINWORTH RD	7+46, 16' RT										150											
LINWORTH RD. BETWEEN STA. 12+00 AND 23+00																								
365	IC-1	LINWORTH RD	12+00, 19' RT	17+27, 30' LT									559					559			2			
365	IC-2	LINWORTH RD	17+27, 30' LT								1		35								1			
365	IC-3	LINWORTH RD	17+27, 30' LT	17+50, 21' LT		25				25			25											
365	IC-4	LINWORTH RD	17+44, 26' LT						1				100											
365	IC-5	LINWORTH RD	17+50, 21' LT	20+58, 27' LT				618					309											
365	IC-6	LINWORTH RD	20+58, 27' LT	20+78, 53' LT		38			1	38			38											
365	IC-7	LINWORTH RD	20+78, 53' LT								1		35											
365	IC-8	LINWORTH RD	20+78, 53' LT	23+00, 49' LT									223					223						
LINWORTH RD. BETWEEN STA. 23+00 AND 33+50																								
366	IC-1	LINWORTH RD	23+00, 49' LT	33+50, 35' RT									1,114					1,114						
366	IC-2	LINWORTH RD	23+26, 48' LT									1												
366	IC-3	LINWORTH RD	24+40, 60' RT									1												
366	IC-4	LINWORTH RD	24+46, 61' RT										150											
SHEET TOTAL					9	444	1,380	618	7	444	4	2	5,455	525	36	2	2	3,241	55	1	4	4	2	2

AERIAL SAG: 1.5% AERIAL SAG IS INCLUDED IN THE QUANTITIES FOR ANY AERIAL FIBER OR CABLE ITEMS.

3378-E

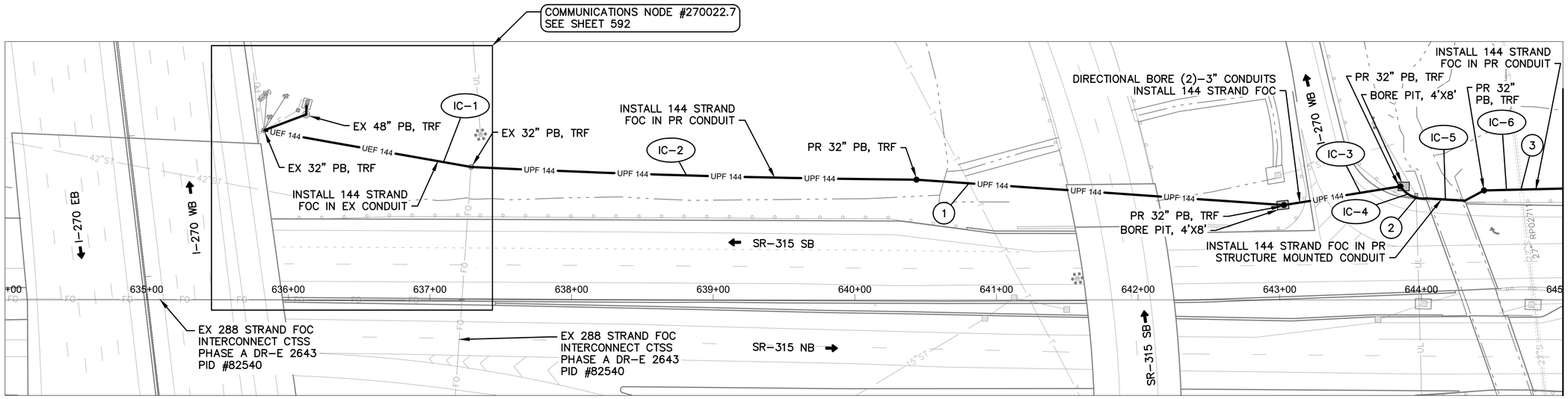
CIP: 540007–100012
PID NUMBER: 99733

WILSON BRIDGE RD BETWEEN STA. 16+50 & 27+50
LINWORTH RD BETWEEN STA. 0+00 & 33+50, INTS 4226, 4219

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

367
915

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SR-315 BETWEEN STATION 634+00 AND 645+00

NOTES:

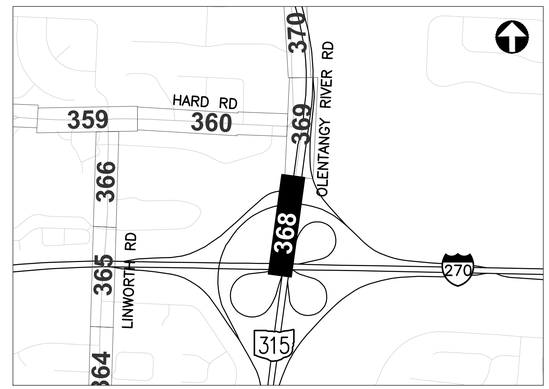
1. SEE SHEET 373 FOR QUANTITIES.
2. SEE SHEETS 592 AND 615 FOR COMMUNICATION DETAILS.
3. LIMITED ACCESS RIGHT OF WAY IS LOCATED OUTSIDE OF THE EXTENT OF VIEW SHOWN ABOVE.

(#) EXISTING UTILITY CROSSING. SEE UTILITY CROSSING INFO SHEET 325.

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- [x] SEWER
- [ ] WATER
- [ ] POWER
- [ ] LIGHTING



REFER TO SHEET 313 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

3378-E

HORIZONTAL SCALE IN FEET
0 40 80

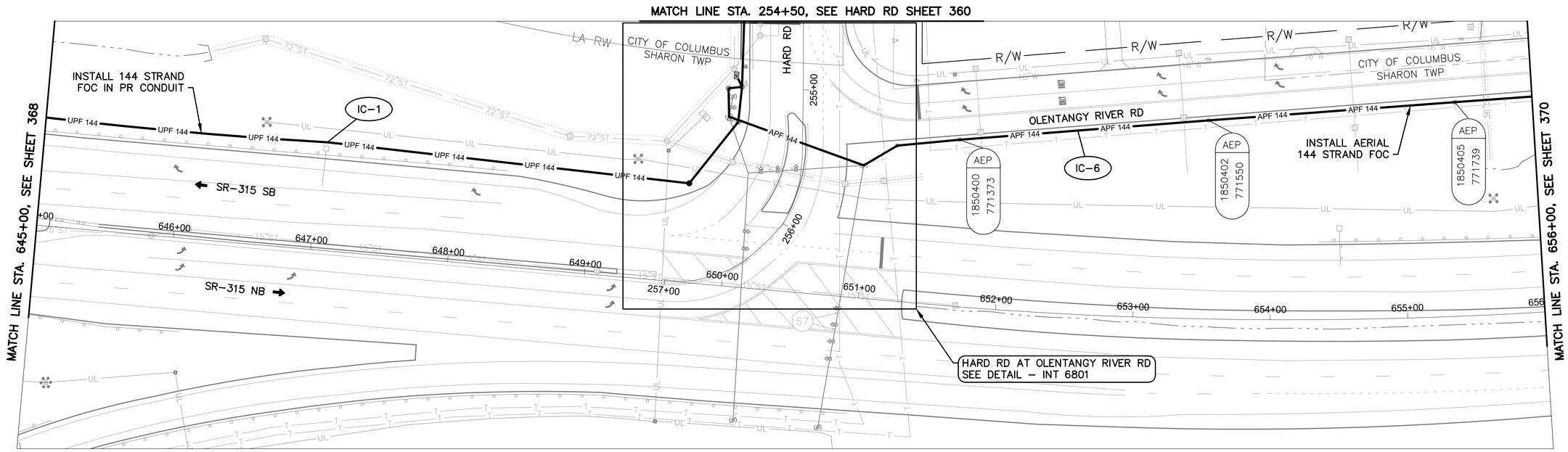
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PID NUMBER: 99733

INTERCONNECT PLAN
SR-315 BETWEEN STA. 634+00 AND 645+00

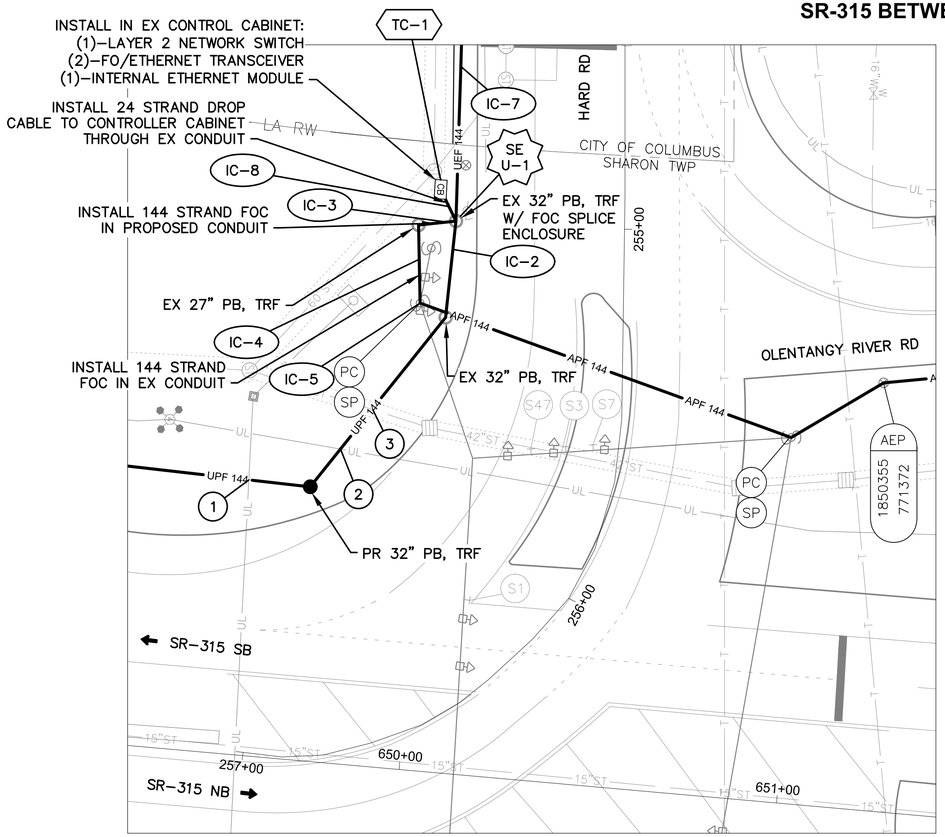
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E - FINAL SUBMITTAL

368
915

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SR-315 BETWEEN STATION 645+00 AND 656+00



DETAIL - INT 6801

0 20 40
HORIZONTAL SCALE IN FEET

NOTES:

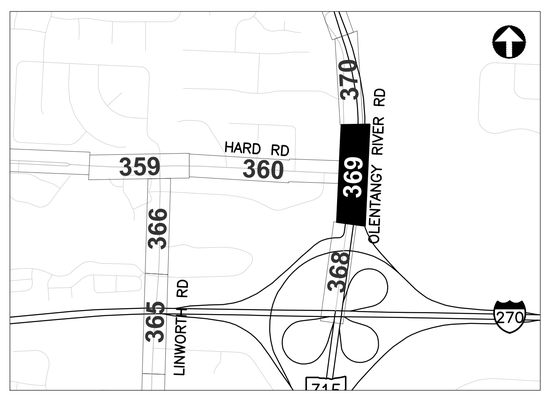
1. SEE SHEET 373 FOR QUANTITIES.
2. SEE SHEETS 615 & 687 FOR COMMUNICATION DETAILS.
3. LIMITED ACCESS RIGHT OF WAY IS LOCATED OUTSIDE OF THE EXTENT OF VIEW SHOWN ABOVE.

(#) EXISTING UTILITY CROSSING. SEE UTILITY CROSSING INFO SHEET 325.

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CITY OF COLUMBUS UTILITY LEGEND

☒	SEWER
☐	WATER
☐	POWER
☒	LIGHTING



REFER TO SHEET 313 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

3378-E

0 40 80
HORIZONTAL SCALE IN FEET

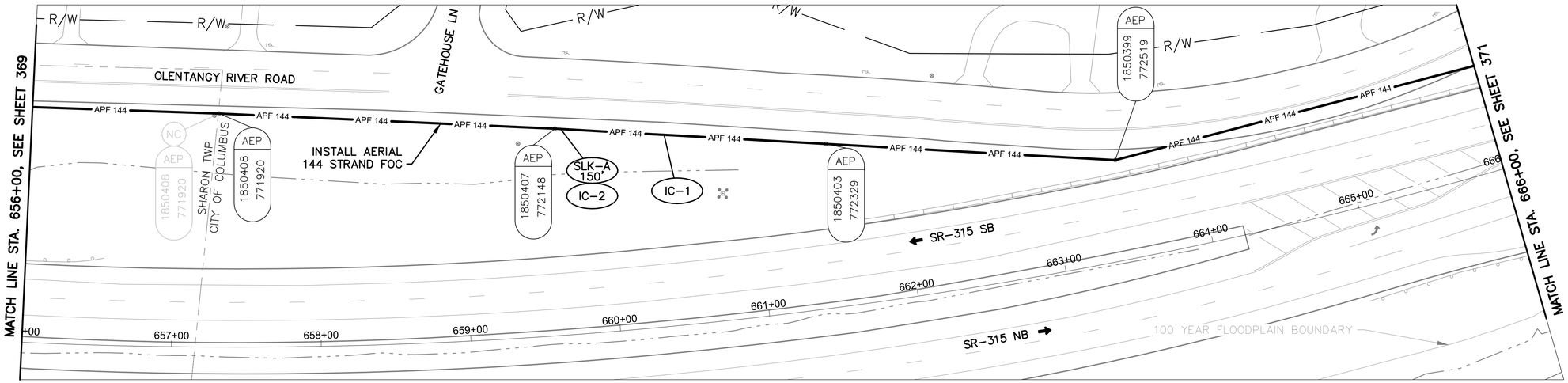
CIP: 540007–100012
PID NUMBER: 99733

INTERCONNECT PLAN
SR–315 BETWEEN STA. 645+00 AND 656+00, INT 6801

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

369
915

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SR-315 BETWEEN STATION 656+00 AND 666+00

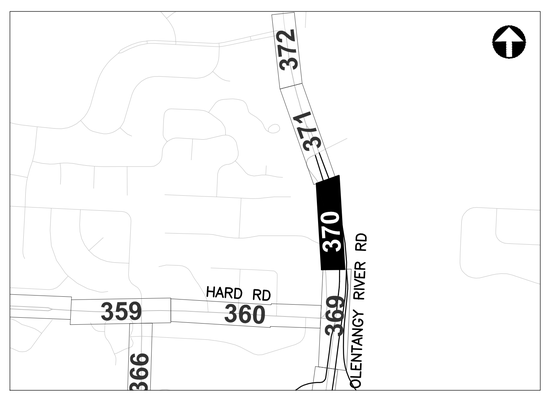
NOTES:

1. SEE SHEET 373 FOR QUANTITIES.
2. SEE SHEET 615 FOR COMMUNICATION DETAILS.
3. LIMITED ACCESS RIGHT OF WAY IS LOCATED OUTSIDE OF THE EXTENT OF VIEW SHOWN ABOVE.

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CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 313 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

3378-E

HORIZONTAL SCALE IN FEET
0 40 80

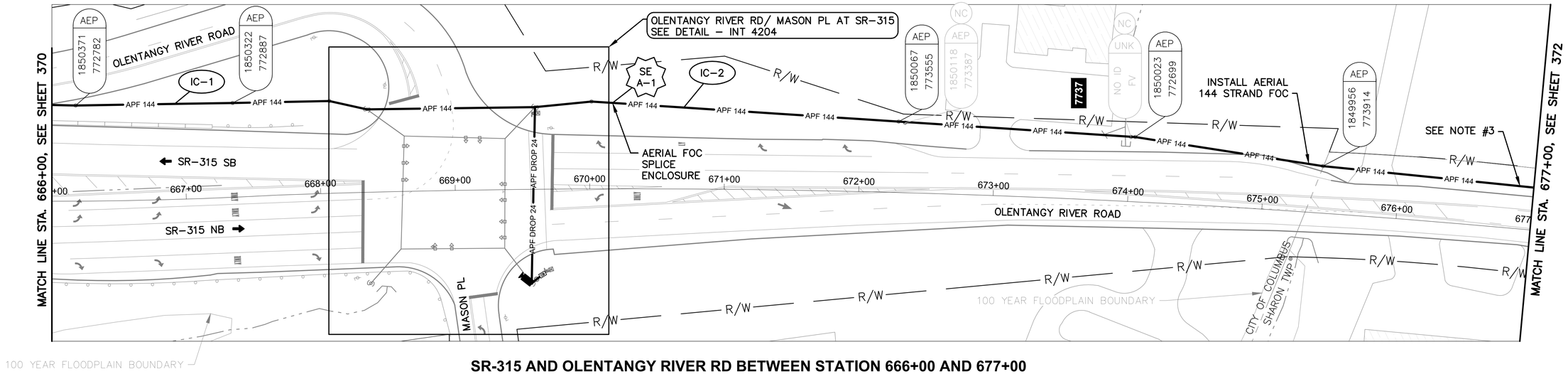
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PID NUMBER: 99733

INTERCONNECT PLAN
SR-315 BETWEEN STA. 656+00 AND 666+00

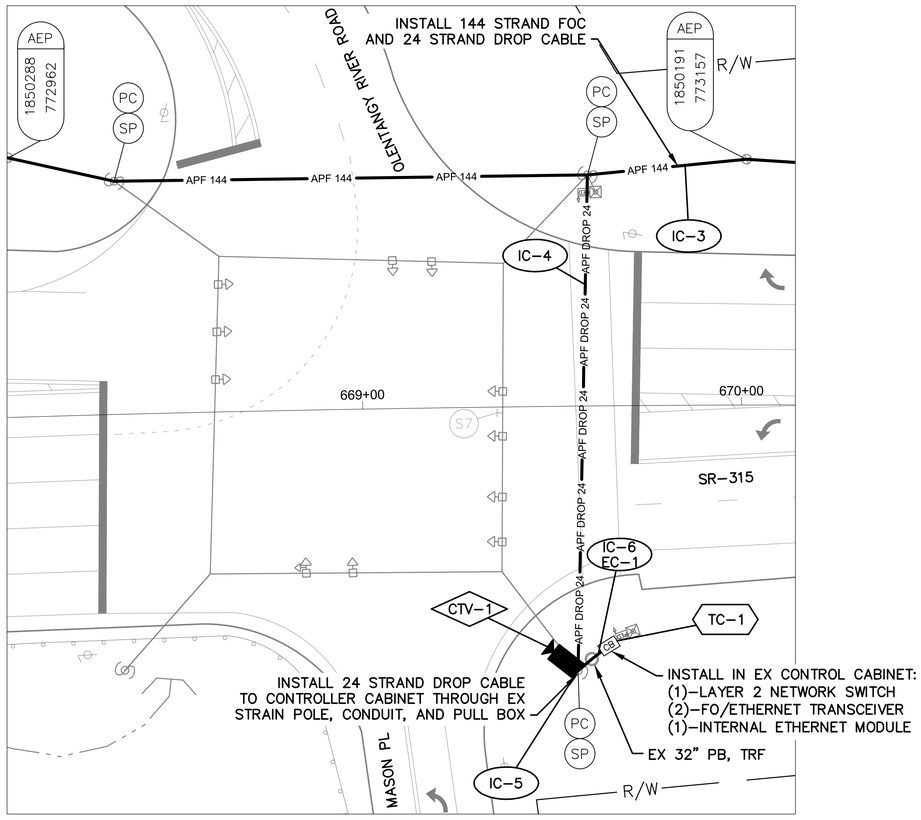
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E - FINAL SUBMITTAL

370
915

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SR-315 AND OLENTANGY RIVER RD BETWEEN STATION 666+00 AND 677+00



DETAIL - INT 4204

0 20 40
HORIZONTAL SCALE IN FEET

NOTES:

1. SEE SHEET 373 FOR QUANTITIES.
2. SEE SHEETS 615 & 688 FOR COMMUNICATION DETAILS.
3. INSTALL CABLE GUARD WHERE AERIAL OBSTRUCTIONS ARE PRESENT.

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- ☐ SEWER
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- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 313 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

3378-E

0 40 80
HORIZONTAL SCALE IN FEET

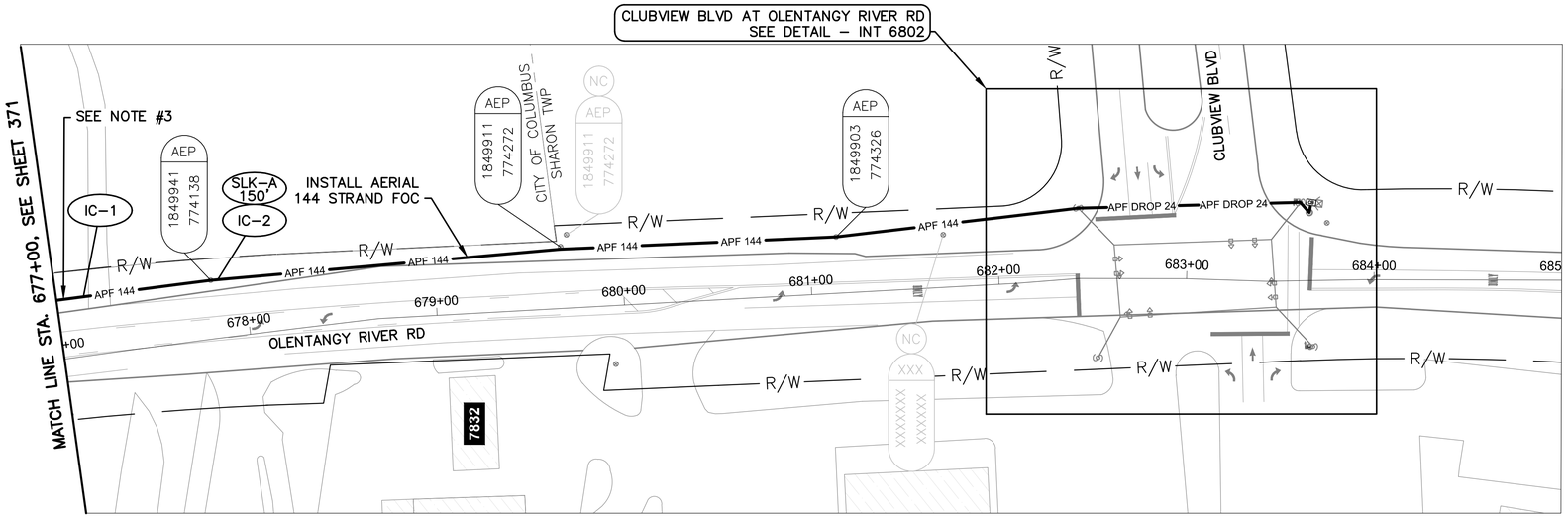
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PID NUMBER: 99733

INTERCONNECT PLAN SR–315 AND OLENTANGY RIVER RD
BETWEEN STA. 666+00 AND 677+00, INT 4204

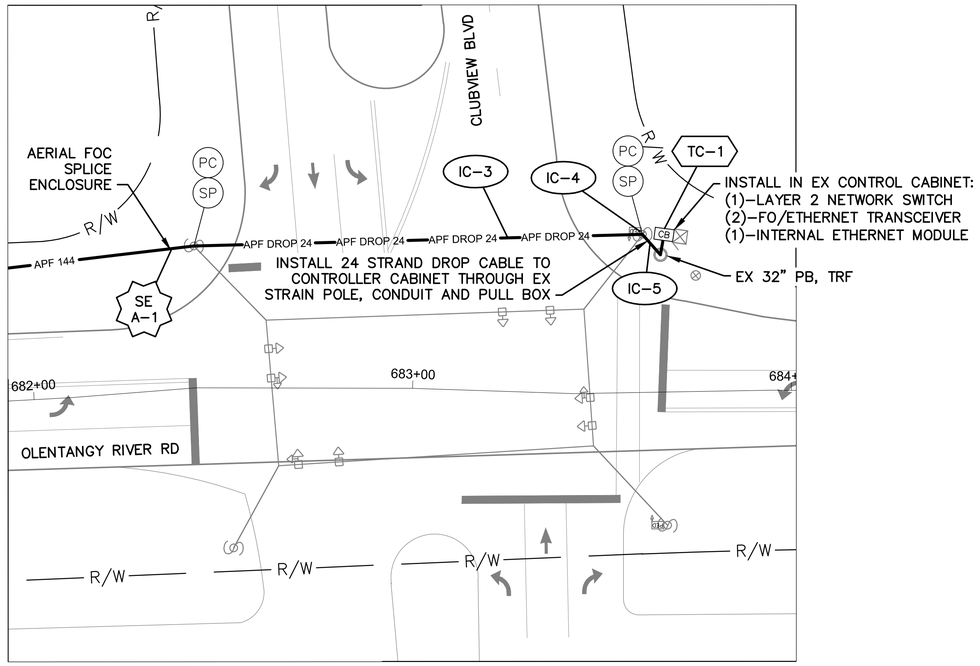
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

371
915

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OLENTANGY RIVER RD BETWEEN STATION 677+00 AND 685+00



DETAIL - INT 6802

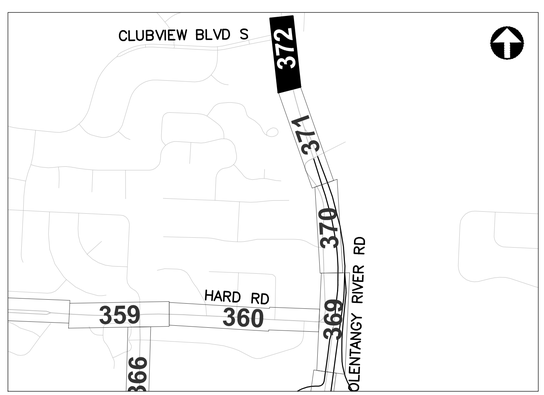
0 20 40
HORIZONTAL
SCALE IN FEET

NOTES:

1. SEE SHEET 373 FOR QUANTITIES.
2. SEE SHEETS 615 & 689 FOR COMMUNICATION DETAILS.
3. INSTALL CABLE GUARD WHERE AERIAL OBSTRUCTIONS ARE PRESENT.

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- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 313 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

3378-E

0 40 80
HORIZONTAL
SCALE IN FEET

CIP: 540007–100012
PID NUMBER: 99733

INTERCONNECT PLAN
OLENTANGY RIVER RD BETWEEN STA. 677+00 AND 685+00, INT 6802

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

372
915

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ESTIMATED QUANTITIES

SHEET NO.	REFERENCE NO.	LOCATION	STATION		202	625	625	625	625	625	632	632	632	632	632	632	632	633	633	633			
					EXISTING CONDUIT CLEANED, AS PER PLAN	CONDUIT, CONCRETE ENCASED, 2-3", 725.05, AS PER PLAN	CONDUIT, JACKED OR DRILLED, 3", AS PER PLAN	CONDUIT, MISC.: 4" CONDUIT, FIBER-GLASS REINFORCED, ATTACHED TO STRUCTURE	PULL BOX, CONCRETE 32", AS PER PLAN	TRENCH, 36" DEEP, AS PER PLAN	INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 144 STRAND	INTERCONNECT CABLE, MISC.: FIBER OPTIC DROP CABLE, 24 STRAND	INTERCONNECT CABLE, MISC.: FIBER OPTIC FUSION SPLICE	INTERCONNECT CABLE, MISC.: TERMINATION PANEL, 24 FIBER	INTERCONNECT, MISC.: SPLICE ENCLOSURE, CLAMSHELL, 288 SPLICE	MESSENGER WIRE, 7 STRAND, 1/4" DIAMETER WITH ACCESSORIES, AS PER PLAN	SIGNALIZATION, MISC.: CCTV COMPOSITE CABLE	SIGNALIZATION, MISC.: CCTV IP-CAMERA SYSTEM	CONTROLLER ITEM, MISC.: FIBER OPTIC ETHERNET TRANSCEIVER, SHORT RANGE	CONTROLLER ITEM, MISC.: INTERNAL ETHERNET MODULE	CONTROLLER ITEM, MISC.: LAYER 2 ETHERNET SWITCH			
			FROM	TO	FT	FT	FT	FT	EACH	FT	FT	FT	EACH	EACH	EACH	FT	FT	EACH	EACH	EACH	EACH			
SR-315 BETWEEN STA. 634+00 AND 645+00																								
368	IC-1	SR-315	636+12, 131' LT	637+29, 94' LT	180						180													
368	IC-2	SR-315	637+29, 94' LT	643+03, 67' LT		575			1	575	575													
368	IC-3	SR-315	643+03, 67' LT	643+85, 80' LT			166		1		83													
368	IC-4	SR-315	643+85, 80' LT	644+03, 72' LT		21			1	21	21													
368	IC-5	SR-315	644+03, 72' LT	644+30, 70' LT				56			28													
368	IC-6	SR-315	644+30, 70' LT	645+00, 78' LT		71			1	71	71													
SR-315 BETWEEN STA. 645+00 AND 656+00, INT 6801																								
369	IC-1	SR-315	645+00, 78' LT	650+01, 120' LT		524			1	524	524													
369	IC-4	SR-315	649+92, 144' LT	649+94, 123' LT	21						21													
369	IC-3	SR-315	649+92, 144' LT	650+02, 146' LT		10				10	10													
369	IC-5	SR-315	649+94, 123' LT								35													
369	IC-6	SR-315	649+94, 123' LT	656+00, 157' LT							614					614								
369	TC-1	SR-315	649+97, 153' LT									20		2					2	1	1			
369	IC-8	SR-315	649+97, 153' LT	650+02, 146' LT	9							18												
369	IC-7	SR-315	649+99, 193' LT	650+02, 146' LT	48						48													
369	IC-2	SR-315	650+01, 120' LT	650+02, 146' LT	26						26													
369	SE U-1	SR-315	650+02, 146' LT								225	250	228		1									
SR-315 BETWEEN STA. 656+00 AND 666+00																								
370	IC-1	SR-315	656+00, 157' LT	666+00, 71' LT							986					986								
370	IC-2	SR-315	659+70, 137' LT								150													
SR-315 BETWEEN STA. 666+00 AND 677+00, INT 4204																								
371	IC-1	SR-315	666+00, 71' LT	670+01, 65' LT							408					408								
371	IC-2	SR-315	670+01, 65' LT	677+00, 32' LT							715					715								
371	IC-4	SR-315	669+56, 70' LT	669+59, 61' LT								133				133								
371	CTV-1	SR-315	669+56, 70' RT														35	1						
371	IC-5	SR-315	669+56, 70' RT									35												
371	IC-6	SR-315	669+56, 70' RT	669+64, 63' RT	10							10												
371	EC-1	SR-315	669+56, 70' RT	669+64, 63' RT													20							
371	IC-3	SR-315	669+59, 61' LT	670+01, 65' LT								42												
371	TC-1	SR-315	669+64, 63' RT									10		1			20		2	1	1			
371	SE A-1	SR-315	670+01, 65' LT								150	125	24		1									
OLENTANGY RIVER RD. BETWEEN STA. 677+00 AND 685+00, INT 6802																								
372	IC-1	SR-315	677+00, 32' LT	682+43, 37' LT							555					555								
372	IC-2	SR-315	677+86, 31' LT								150													
372	SE A-1	SR-315	682+43, 37' LT								75	125	12		1									
372	IC-3	SR-315	682+43, 37' LT	683+61, 42' LT								120				120								
372	IC-4	SR-315	683+61, 42' LT									35												
372	IC-5	SR-315	683+61, 42' LT	683+67, 42' LT	13							13												
372	TC-1	SR-315	683+67, 42' LT									10		1					2	1	1			
SHEET TOTAL					307	1,201	166	56	5	1,201	5,650	946	264	4	3	3,531	75	1	6	3	3	-	-	-

AERIAL SAG: 1.5% AERIAL SAG IS INCLUDED IN THE QUANTITIES FOR ANY AERIAL FIBER OR CABLE ITEMS.

3378-E

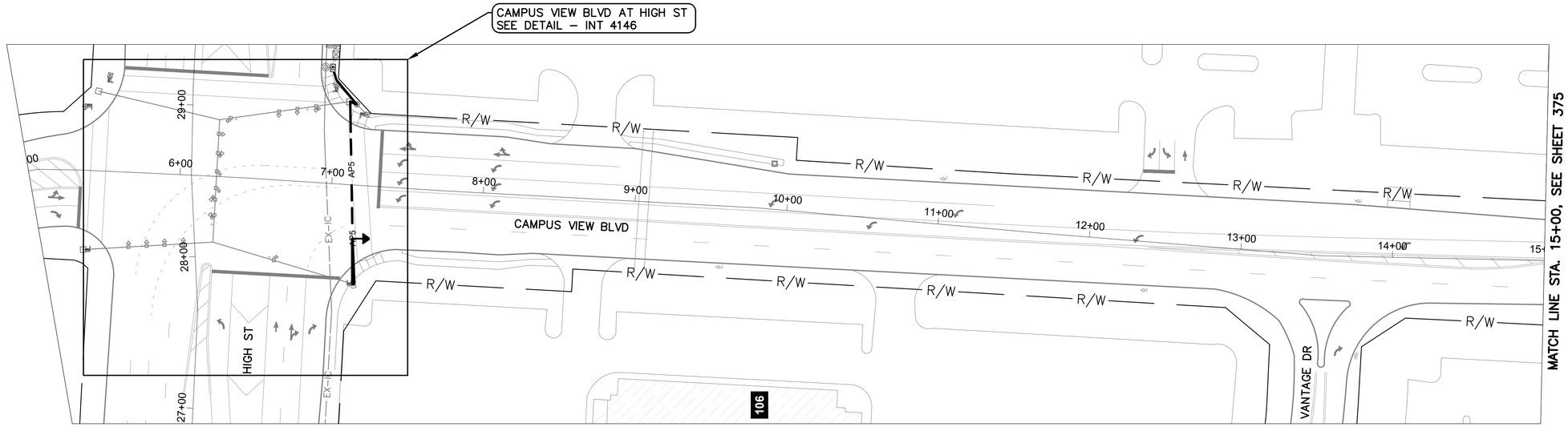
CIP: 540007-100012
PID NUMBER: 99733

SR-315 BETWEEN STA. 634+00 & 685+00
INTS 6801, 4204, 6802

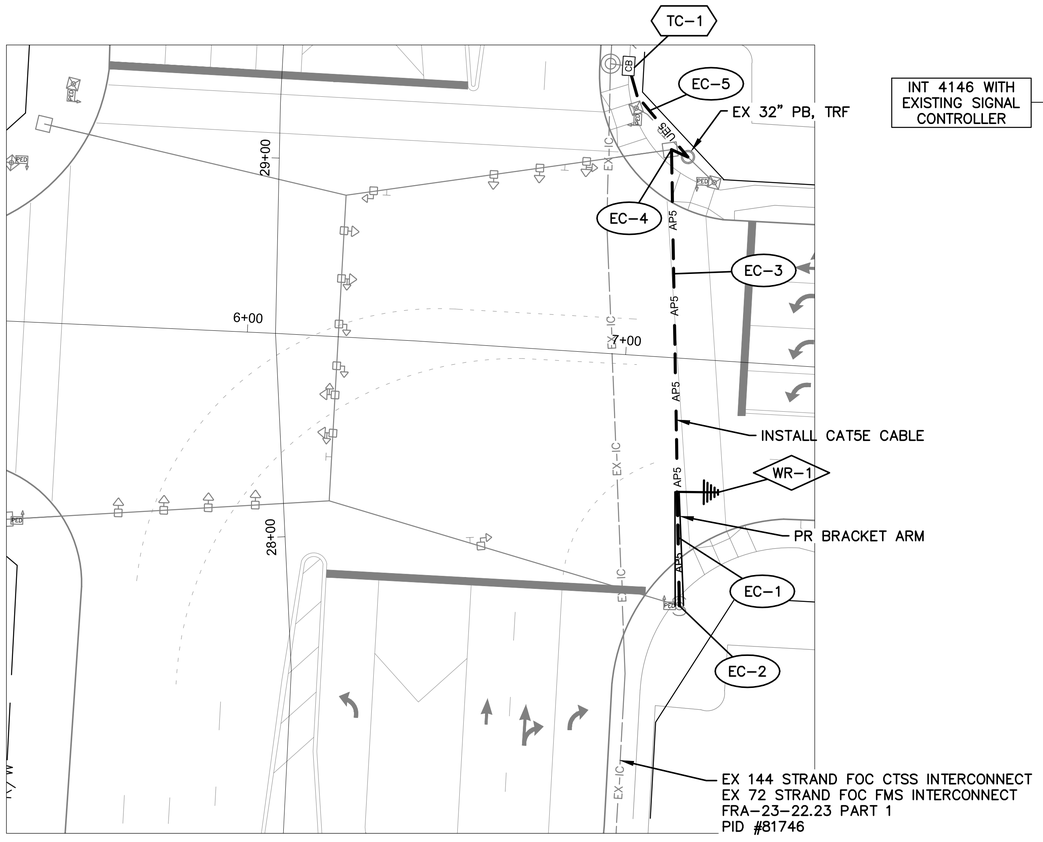
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

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915

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CAMPUS VIEW BLVD BETWEEN STATION 5+00 AND 15+00



DETAIL - INT 4146

0 20 40
HORIZONTAL SCALE IN FEET

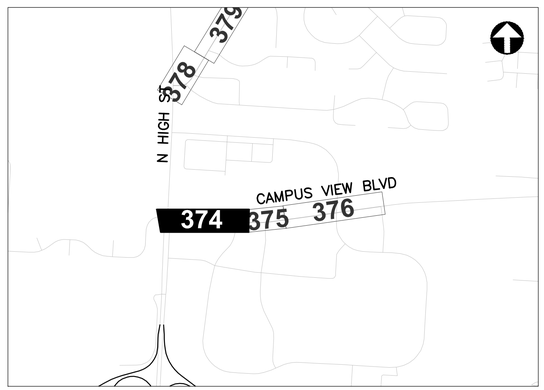
NOTES:

1. SEE SHEET 377 FOR QUANTITIES.
2. SEE SHEET 616 & 694 FOR COMMUNICATION DETAILS.

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CITY OF COLUMBUS UTILITY LEGEND

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- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 313 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

3378-E

0 40 80
HORIZONTAL SCALE IN FEET

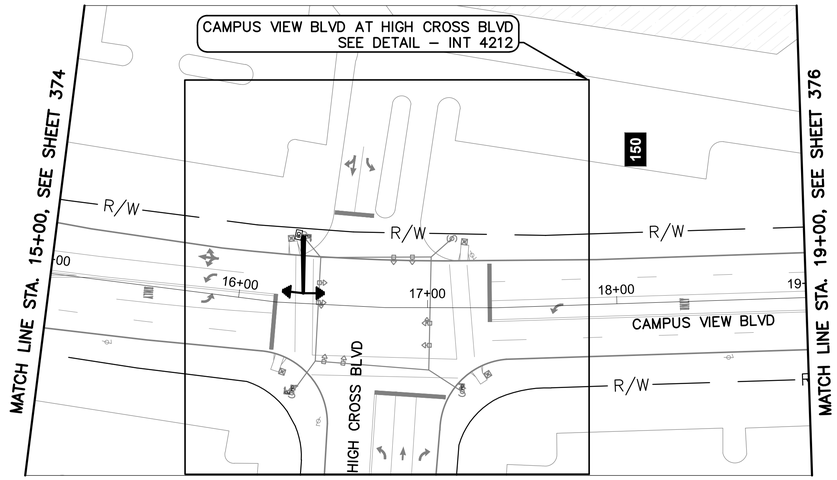
CIP: 540007-100012
PID NUMBER: 99733

INTERCONNECT PLAN
CAMPUS VIEW BLVD BETWEEN STA. 5+00 AND 15+00, INT 4146

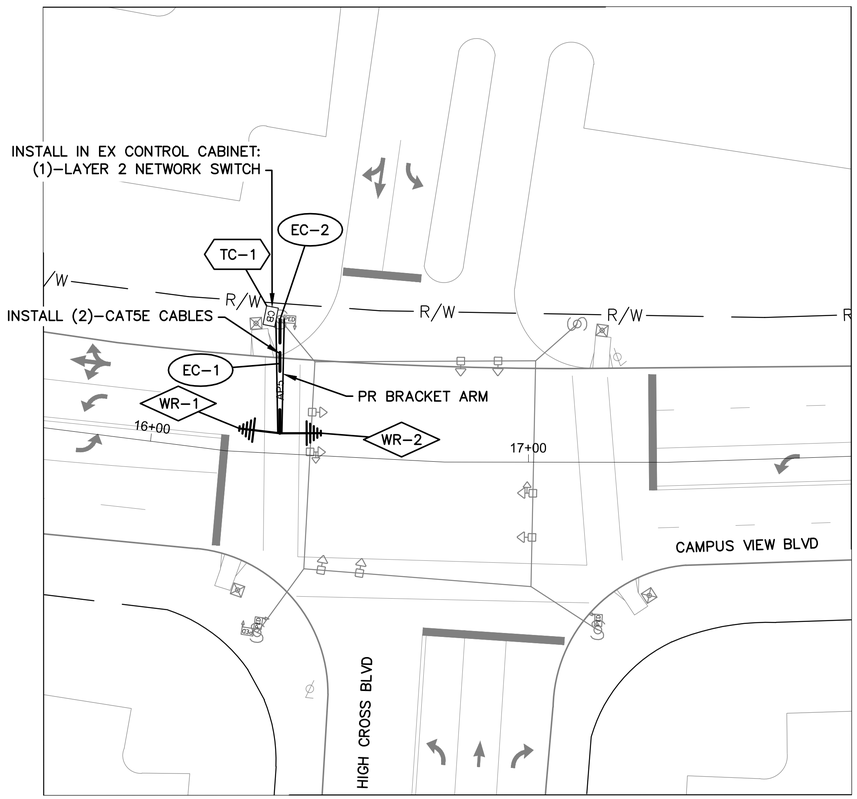
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

374
915

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CAMPUS VIEW BLVD BETWEEN STATION 15+00 AND 19+00



DETAIL - INT 4212

0 20 40
HORIZONTAL SCALE IN FEET

PROPOSED WIRELESS SEE SHEET 374 INT 4146 – CAMPUS VIEW BLVD AT HIGH ST

INT 4212 WITH EXISTING SIGNAL CONTROLLER

PROPOSED WIRELESS SEE SHEET 376 INT 4210 – CAMPUS VIEW BLVD AT CROSSWOODS DR/ HUNTINGTON PARL

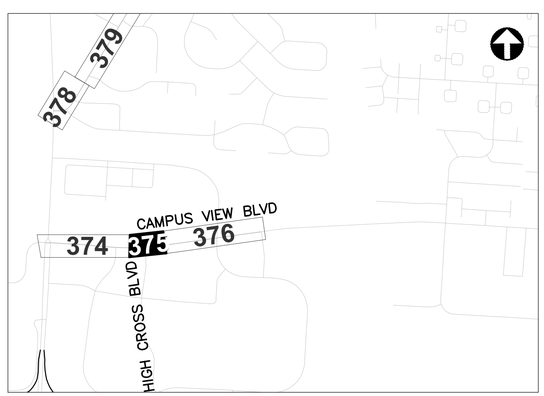
NOTES:

1. SEE SHEET 377 FOR QUANTITIES.
2. SEE SHEETS 616 & 695 FOR COMMUNICATION DETAILS.

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- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 313 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

3378-E

0 40 80
HORIZONTAL SCALE IN FEET

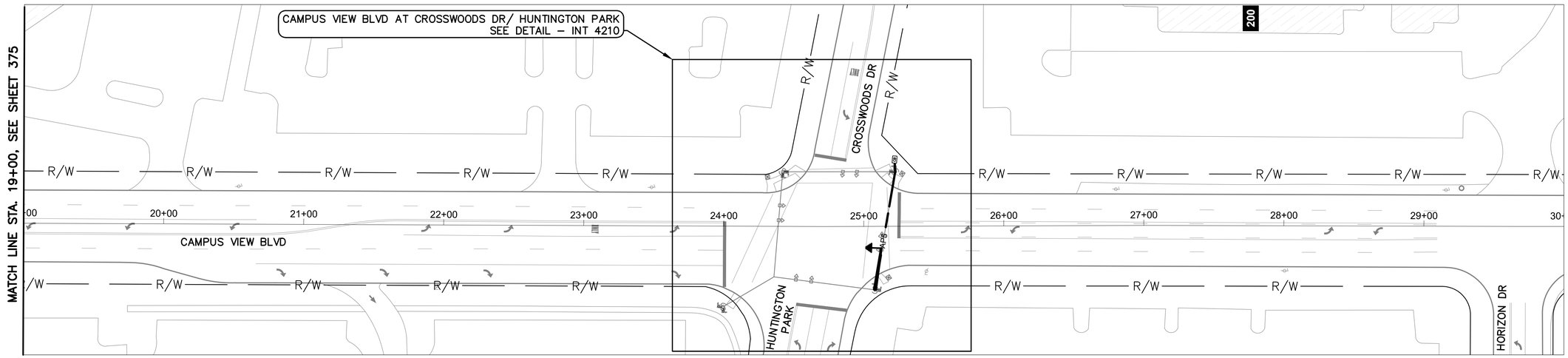
CIP: 540007–100012
PID NUMBER: 99733

INTERCONNECT PLAN
CAMPUS VIEW BLVD BETWEEN STA. 15+00 AND 19+00, INT 4212

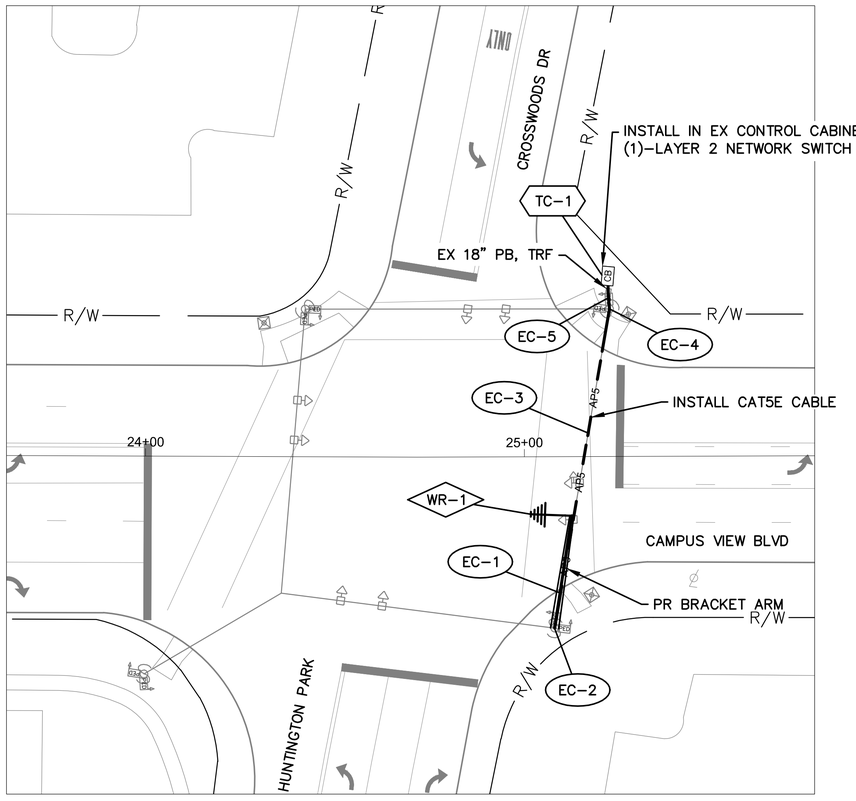
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

375
915

J:\Jobs\63721 ctss phase e\TECHPROD\Sheets\CTSS_PhE_Trunk3_E_CAMPUS_VIEW_INTERCONNECT1.dwg – CAMPUS–VIEW–2 layout ~ last saved by: gburch 06/15/2018 11:45am ~ printed 09/12/2018 12:22am PSLTS: 1 LTS: 1 CAS: 1:1



CAMPUS VIEW BLVD BETWEEN STATION 19+00 AND 30+00



DETAIL - INT 4210

0 20 40
HORIZONTAL SCALE IN FEET

PROPOSED WIRELESS
SEE SHEET 375
INT 4212 – CAMPUS VIEW BLVD AT HIGH CROSS BLVD

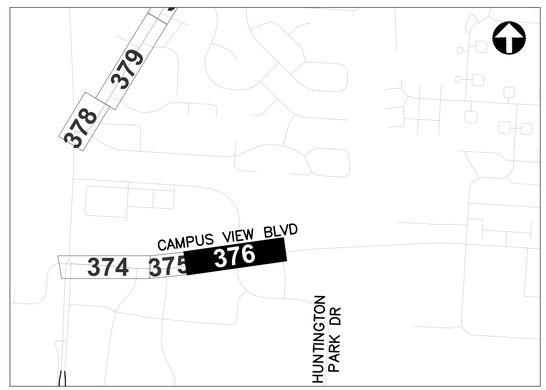
INT 4210 WITH EXISTING SIGNAL CONTROLLER

NOTES:

1. SEE SHEET 377 FOR QUANTITIES.
2. SEE SHEETS 616 & 696 FOR COMMUNICATION DETAILS.

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- ☐ LIGHTING



REFER TO SHEET 313 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

3378-E

0 40 80
HORIZONTAL SCALE IN FEET

CIP: 540007–100012
PID NUMBER: 99733

INTERCONNECT PLAN
CAMPUS VIEW BLVD BETWEEN STA. 19+00 AND 30+00, INT 4210

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

376
915

J:\Jobs\63721 - ctss phase e\TECHPROD\Sheets\CTSS_PhE_Trunk3_E_CAMPUS_VIEW_INTERCONNECT.dwg – CAMPUS-VIEW-3 layout ~ last saved by: gburch 06/15/2018 11:45am ~ printed 09/12/2018 12:25pm PSLTS: 1 LTS: 1 CAS: 1:1

ESTIMATED QUANTITIES

SHEET NO.	REFERENCE NO.	LOCATION	STATION		202	625	632	632	632	633														
					EXISTING CONDUIT CLEANED, AS PER PLAN	BRACKET ARM, 30', AS PER PLAN	INTERCONNECT, MISC.: CAT 5E CABLE, OUTDOOR RATED	MESSENGER WIRE, 7 STRAND, 1/4" DIAMETER WITH ACCESSORIES, AS PER PLAN	SPREAD SPECTRUM RADIO, AS PER PLAN	CONTROLLER ITEM, MISC.: LAYER 2 ETHERNET SWITCH														
			FROM	TO	FT	EACH	FT	FT	EACH	EACH														
CAMPUS VIEW BLVD. BETWEEN STA. 5+00 AND 15+00, INT 4146																								
374	TC-1	CAMPUS VIEW BLVD	6+95, 76' LT				10																	
374	EC-5	CAMPUS VIEW BLVD	6+95, 76' LT	7+08, 55' LT	34		34																	
374	EC-4	CAMPUS VIEW BLVD	7+08, 55' LT				35																	
374	EC-3	CAMPUS VIEW BLVD	7+08, 55' RT	7+18, 65' RT			122	122																
374	WR-1	CAMPUS VIEW BLVD	7+15, 35' RT						1															
374	EC-1	CAMPUS VIEW BLVD	7+15, 35' RT	7+18, 65' RT			30																	
374	EC-2	CAMPUS VIEW BLVD	7+18, 65' RT			1																		
CAMPUS VIEW BLVD. BETWEEN STA. 15+00 AND 19+00, INT 4212																								
375	TC-1	CAMPUS VIEW BLVD	16+32, 35' LT			1	90			1														
375	EC-1	CAMPUS VIEW BLVD	16+32, 35' LT	16+34, 5' LT			60																	
375	WR-1	CAMPUS VIEW BLVD	16+34, 5' LT						1															
375	WR-2	CAMPUS VIEW BLVD	16+34, 5' LT						1															
CAMPUS VIEW BLVD. BETWEEN STA. 19+00 AND 30+00, INT 4210																								
376	EC-3	CAMPUS VIEW BLVD	25+07, 45' LT	25+22, 39' LT			86	86																
376	EC-2	CAMPUS VIEW BLVD	25+07, 45' RT			1																		
376	EC-1	CAMPUS VIEW BLVD	25+07, 45' RT	25+12, 16' RT			30																	
376	WR-1	CAMPUS VIEW BLVD	25+12, 16' RT						1															
376	EC-4	CAMPUS VIEW BLVD	25+22, 39' LT				35																	
376	TC-1	CAMPUS VIEW BLVD	25+22, 48' LT				10			1														
376	EC-5	CAMPUS VIEW BLVD	25+22, 48' LT	25+22, 39' LT	9		9																	
SHEET TOTAL					43	3	551	208	4	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-

AERIAL SAG: 1.5% AERIAL SAG IS INCLUDED IN THE QUANTITIES FOR ANY AERIAL FIBER OR CABLE ITEMS.

3378-E

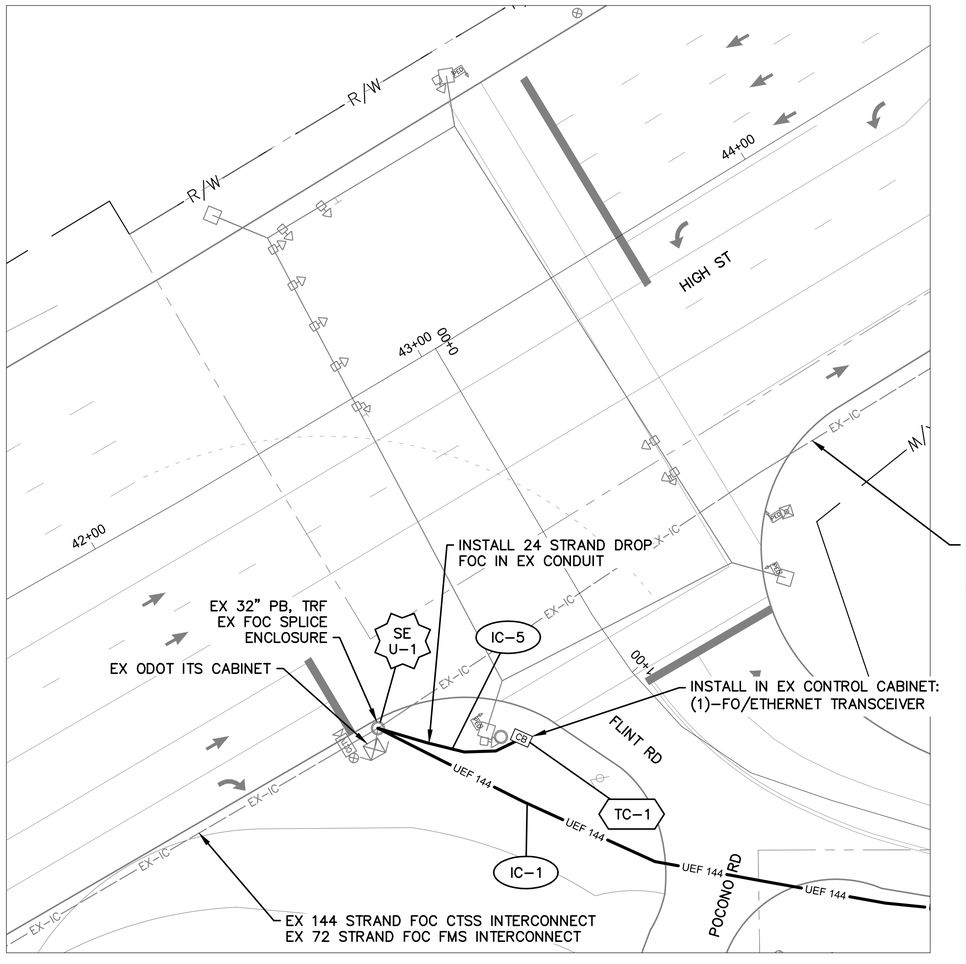
CIP: 540007-100012
PID NUMBER: 99733

CAMPUS VIEW BLVD BETWEEN STA. 5+00 & 30+00
INTS 4146, 4212, 4210

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

377
915

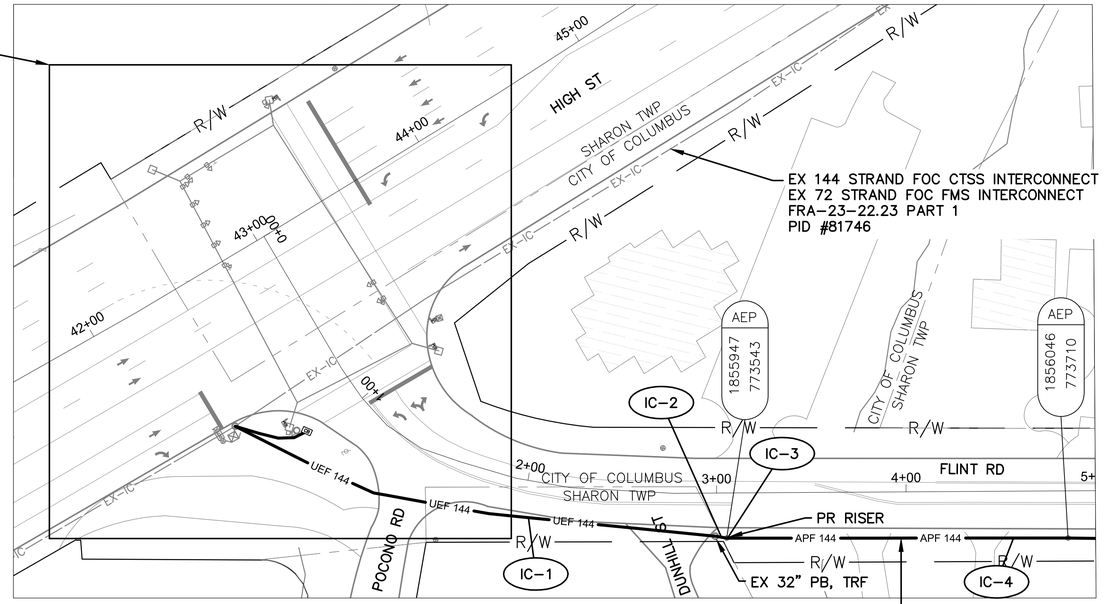
J:\Jobs\63721 CTSS Phase E\TECHPROD\Sheets\CTSS_PhE_Trunk3_CAMPUS_VIEW_JC_QUANTITIES.dwg – CAMPUS VIEW BLVD_Q1 layout ~ last saved by: gburch 08/22/2017 02:10pm ~ printed 09/18/2018 10:10am PSLTS: 1 LTS: 1 CAS: 1:1



DETAIL - INT 4172

0 20 40
HORIZONTAL SCALE IN FEET

FLINT RD AT HIGH ST
SEE DETAIL – INT 4172



FLINT RD BETWEEN STATION 0+00 AND 5+00

MATCH LINE STA. 5+00, SEE SHEET 379

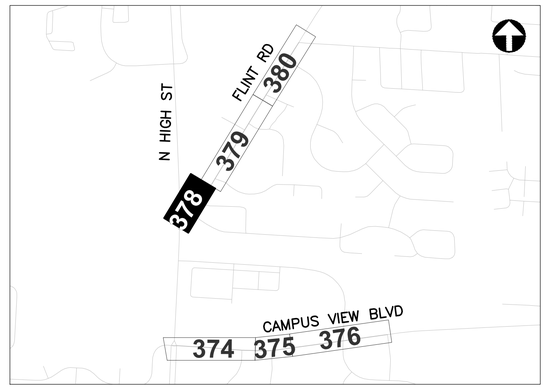
NOTES:

1. SEE SHEET 381 FOR QUANTITIES.
2. SEE SHEETS 616 & 692 FOR COMMUNICATION DETAILS.

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- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 313 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

0 40 80
HORIZONTAL SCALE IN FEET

CIP: 540007-100012
PID NUMBER: 99733

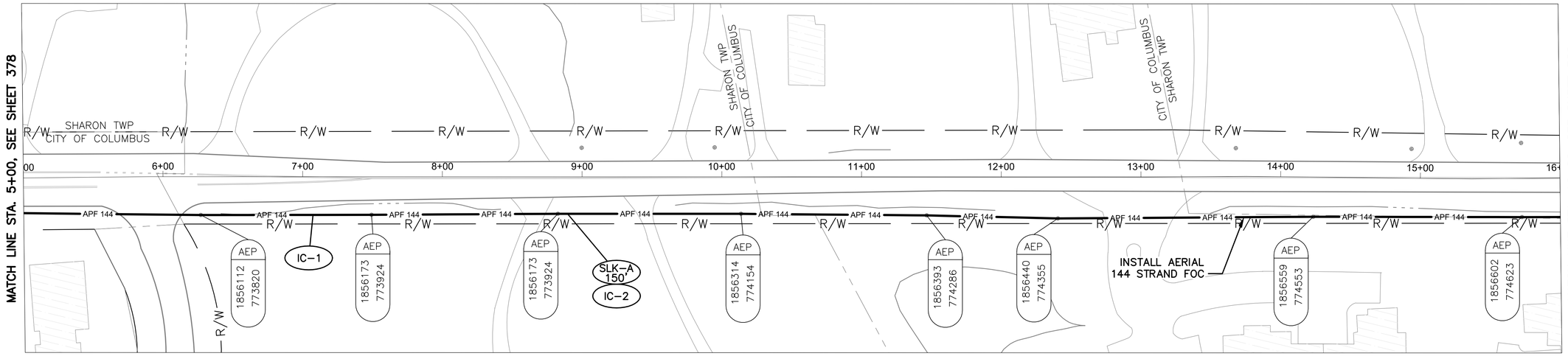
INTERCONNECT PLAN
FLINT RD BETWEEN STA. 0+00 AND 11+00, INT 4172

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

378
915

3378-E

J:\Jobs\63721 ctss phase e\TECHPROD\Sheets\CTSS_PhE_Trunk3_FLINT_INTERCONNECT.dwg – FLINT-1 layout ~ last saved by: gburch 09/05/2018 08:35am ~ printed 09/12/2018 12:27pm PSLTS: 1 LTS: 1 CAS: 1:1



FLINT RD BETWEEN STATION 5+00 AND 16+00

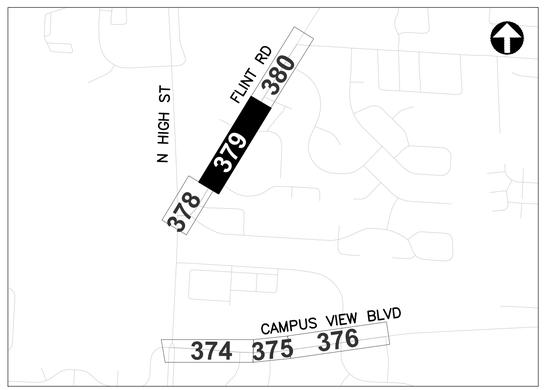
NOTES:

1. SEE SHEET 381 FOR QUANTITIES.
2. SEE SHEET 616 FOR COMMUNICATION DETAILS.

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- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 313 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

3378-E

HORIZONTAL SCALE IN FEET
0 40 80

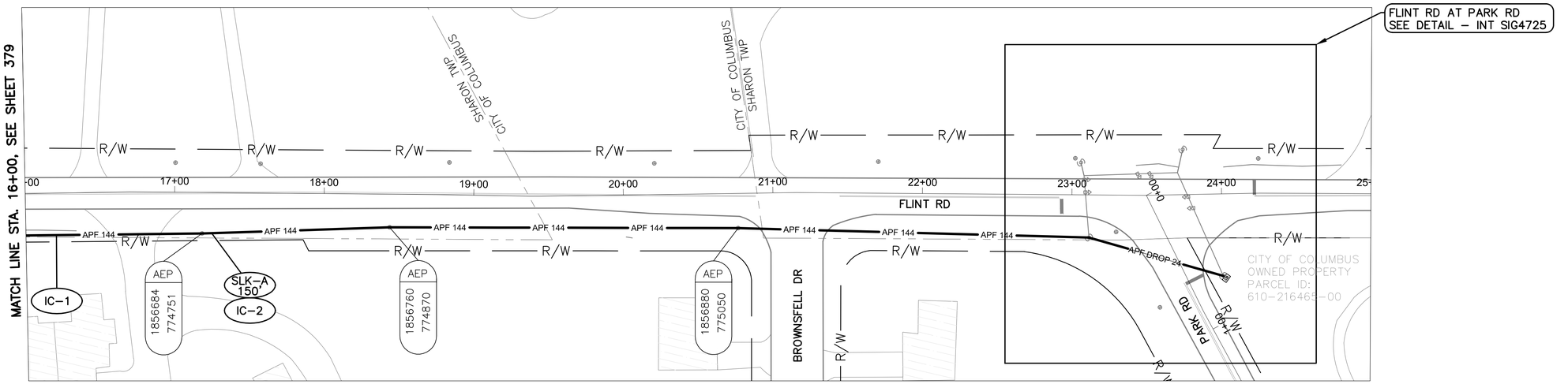
CIP: 540007-100012
PID NUMBER: 99733

INTERCONNECT PLAN
FLINT RD BETWEEN STA. 5+00 AND 16+00

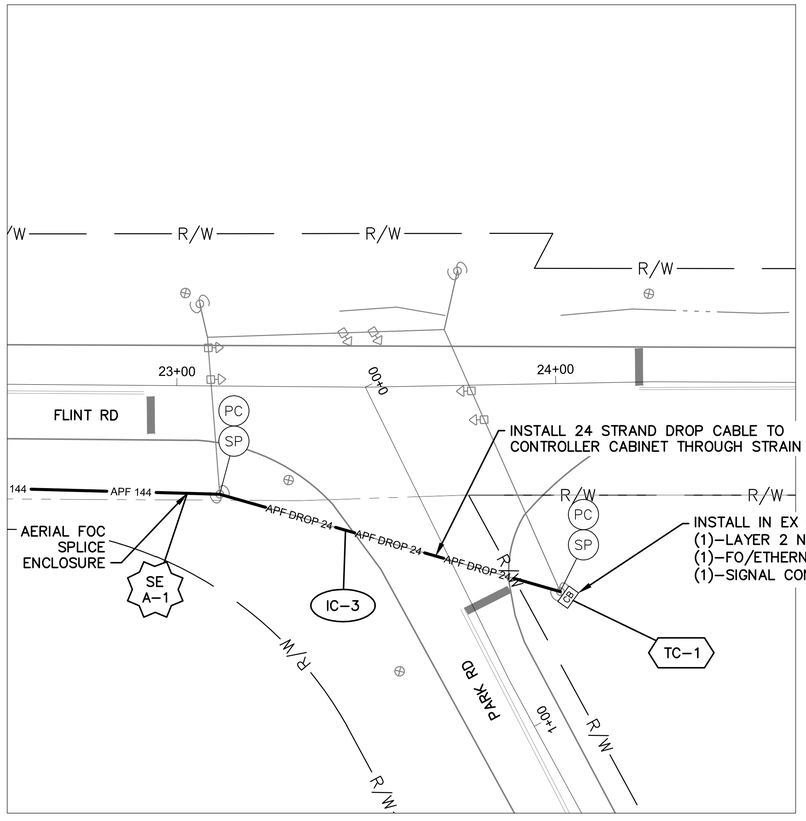
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

379
915

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FLINT RD BETWEEN STATION 16+00 AND 25+00



DETAIL - INT SIG4725

0 20 40
HORIZONTAL
SCALE IN FEET

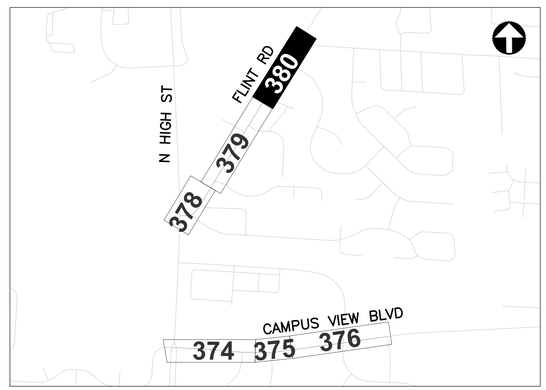
NOTES:

1. SEE SHEET 381 FOR QUANTITIES.
2. SEE SHEETS 616 & 693 FOR COMMUNICATION DETAILS.

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- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 313 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

3378-E

0 40 80
HORIZONTAL
SCALE IN FEET

CIP: 540007–100012
PID NUMBER: 99733

INTERCONNECT PLAN
FLINT RD BETWEEN STA. 16+00 AND 25+00, INT SIG4725

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

380
915

J:\Jobs\63721 ctss phase e\TECHPROD\Sheets\CTSS_PhE_Trunk3_FLINT_INTERCONNECT.dwg ~ FLINT–3 layout ~ last saved by: gburch 09/05/2018 08:35am ~ printed 09/12/2018 12:31pm PSLTS: 1 LTS: 1 CAS: 1:1

ESTIMATED QUANTITIES

SHEET NO.	REFERENCE NO.	LOCATION	STATION		202	625	625	632	632	632	632	632	632	632	633	633	633							
					EXISTING CONDUIT CLEANED, AS PER PLAN	CONDUIT, CONCRETE ENCASED, 2-3", 725.05, AS PER PLAN	TRENCH, 36" DEEP, AS PER PLAN	CONDUIT RISER, 2", 725.04, AS PER PLAN	INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 144 STRAND	INTERCONNECT CABLE, MISC.: FIBER OPTIC DROP CABLE, 24 STRAND	INTERCONNECT CABLE, MISC.: FIBER OPTIC FUSION SPLICE	INTERCONNECT CABLE, MISC.: TERMINATION PANEL, 24 FIBER	INTERCONNECT, MISC.: SPLICE ENCLOSURE, CLAMSHELL, 288 SPLICE	MESSENGER WIRE, 7 STRAND, 1/4" DIAMETER WITH ACCESSORIES, AS PER PLAN	CONTROLLER ITEM, MISC.: FIBER OPTIC ETHERNET TRANSCEIVER, SHORT RANGE	CONTROLLER ITEM, MISC.: LAYER 2 ETHERNET SWITCH	CONTROLLER UNIT, TYPE TS2/A2, AS PER PLAN						
			FROM	TO	FT	FT	FT	EACH	FT	FT	EACH	EACH	EACH	FT	EACH	EACH	EACH						
FLINT RD. BETWEEN STA. 0+00 AND 5+00, INT 4172																							
378	SE U-1	FLINT RD	0+78, 64' RT						75	125	204												
378	IC-1	FLINT RD	0+78, 64' RT	2+98, 24' RT	263				263														
378	IC-5	FLINT RD	0+78, 64' RT	0+98,34' RT	40					40													
378	TC-1	FLINT RD	0+98,34' RT							10		1			1								
378	IC-2	FLINT RD	2+98, 24' RT	3+04, 25' RT		6	6		6														
378	IC-3	FLINT RD	3+04, 25' RT					1	35														
378	IC-4	FLINT RD	3+04, 25' RT	5+00, 25' RT					199					199									
FLINT RD. BETWEEN STA. 5+00 AND 16+00																							
379	IC-1	FLINT RD	5+00, 25' RT	16+00, 28' RT					1,117					1,117									
379	IC-2	FLINT RD	8+89, 26' RT						150														
FLINT RD. BETWEEN STA. 16+00 AND 25+00, INT SIG4725																							
380	IC-1	FLINT RD	16+00, 28' RT	23+11, 29' RT					722					722									
380	IC-2	FLINT RD	17+24, 27' RT						150														
380	SE A-1	FLINT RD	23+11, 29' RT						75	125	12		1										
380	IC-3	FLINT RD	23+11, 29' RT	24+00, 55' RT						94				94									
380	TC-1	FLINT RD	24+00, 55' RT							45		1			1	1	1						
SHEET TOTAL					303	6	6	1	2,792	439	216	2	1	2,132	2	1	1	-	-	-	-	-	-	-

AERIAL SAG: 1.5% AERIAL SAG IS INCLUDED IN THE QUANTITIES FOR ANY AERIAL FIBER OR CABLE ITEMS.

3378-E

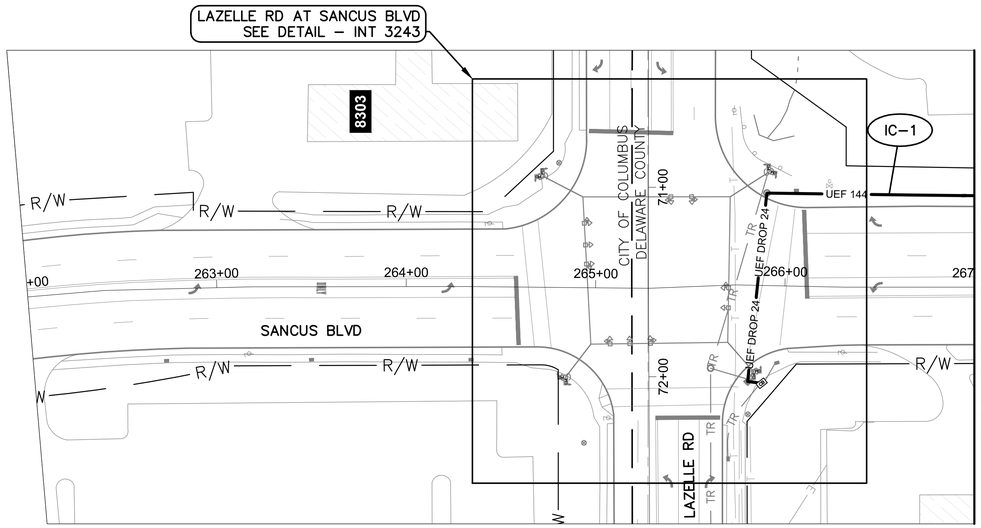
CIP: 540007-100012
PID NUMBER: 99733

FLINT RD BETWEEN STA. 0+00 & 25+00
INTS 4172, SIG4725

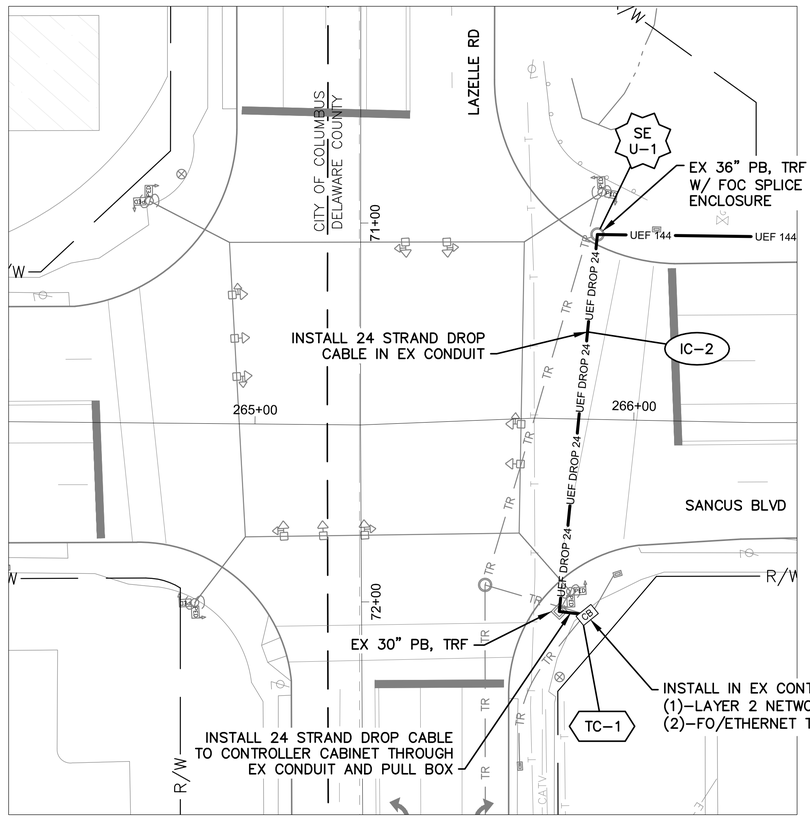
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

381
915

J:\Jobs\63721 CTSS Phase E\TECHPROD\Sheets\CTSS_PhE_Trunk3_FLINT_IC_QUANTITIES.dwg – FLINT RD_Q1 layout ~ last saved by: gburch 09/28/2017 10:39am ~ printed 09/18/2018 10:11am PSLTS: 1 LTS: 1 CAS: 1:1



SANCUS BLVD BETWEEN STATION 262+00 AND 267+00



DETAIL - INT 3243

0 20 40
HORIZONTAL
SCALE IN FEET

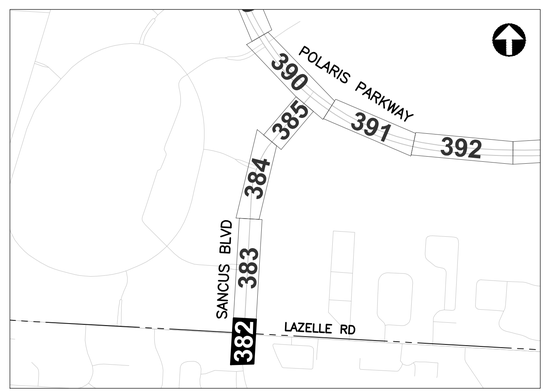
NOTES:

1. SEE SHEET 386 FOR QUANTITIES.
2. SEE SHEETS 617 & 697 FOR COMMUNICATION DETAILS.

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- ☐ LIGHTING



REFER TO SHEET 313 FOR
INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

3378-E

0 40 80
HORIZONTAL
SCALE IN FEET

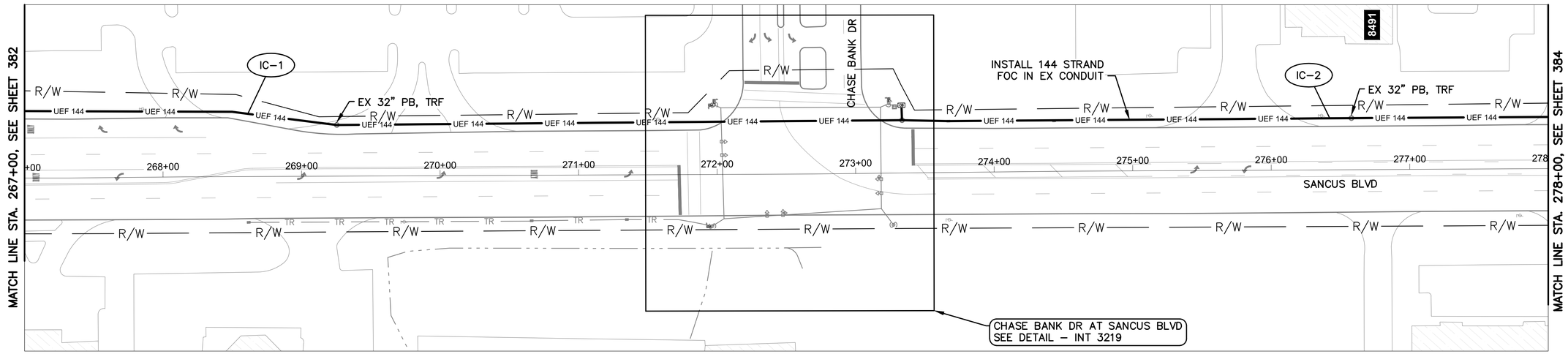
CIP: 540007–100012
PID NUMBER: 99733

INTERCONNECT PLAN
SANCUS BLVD BETWEEN STA. 262+00 AND 267+00, INT 3243

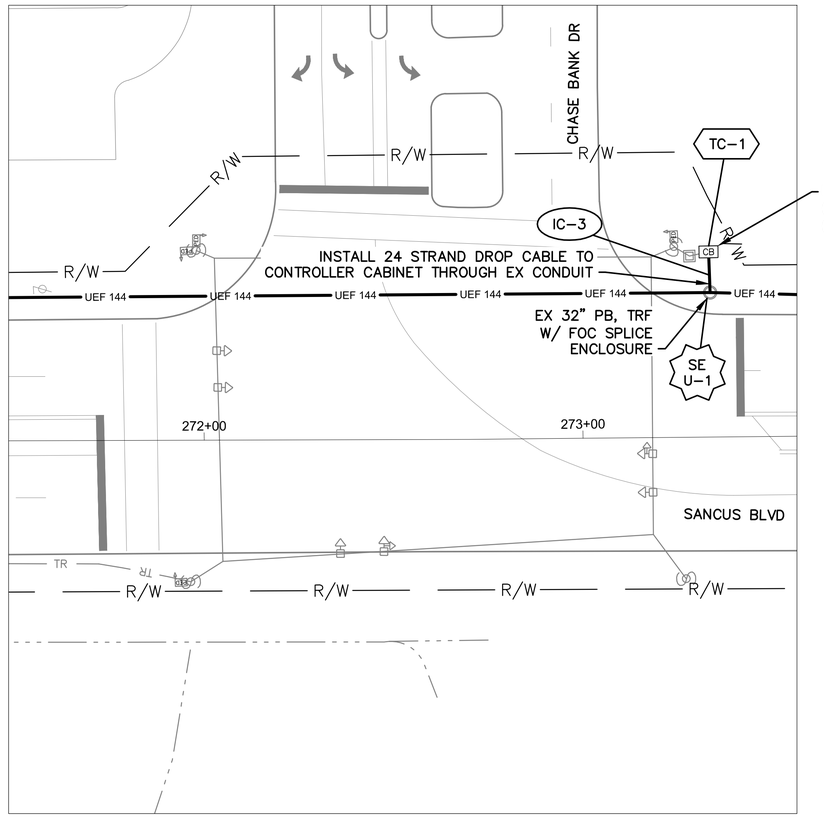
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

382
915

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SANCUS BLVD BETWEEN STATION 267+00 AND 278+00



DETAIL - INT 3219

0 20 40
HORIZONTAL
SCALE IN FEET

NOTES:

1. SEE SHEET 386 FOR QUANTITIES.
2. SEE SHEETS 617 & 698 FOR COMMUNICATION DETAILS.

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CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 313 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

3378-E

0 40 80
HORIZONTAL
SCALE IN FEET

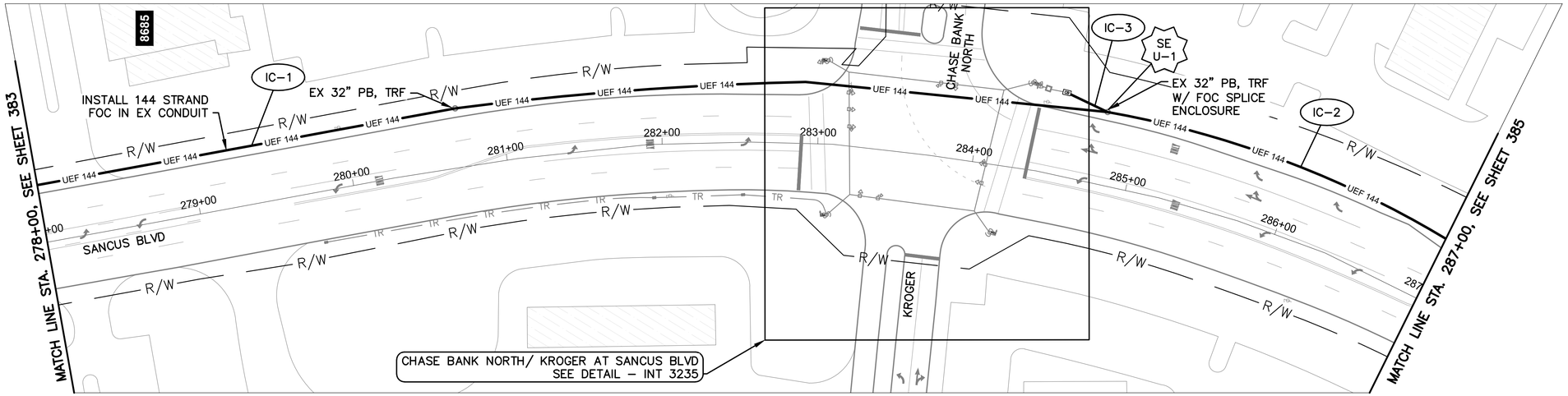
CIP: 540007–100012
PID NUMBER: 99733

INTERCONNECT PLAN
SANCUS BLVD BETWEEN STA. 267+00 AND 278+00, INT 3219

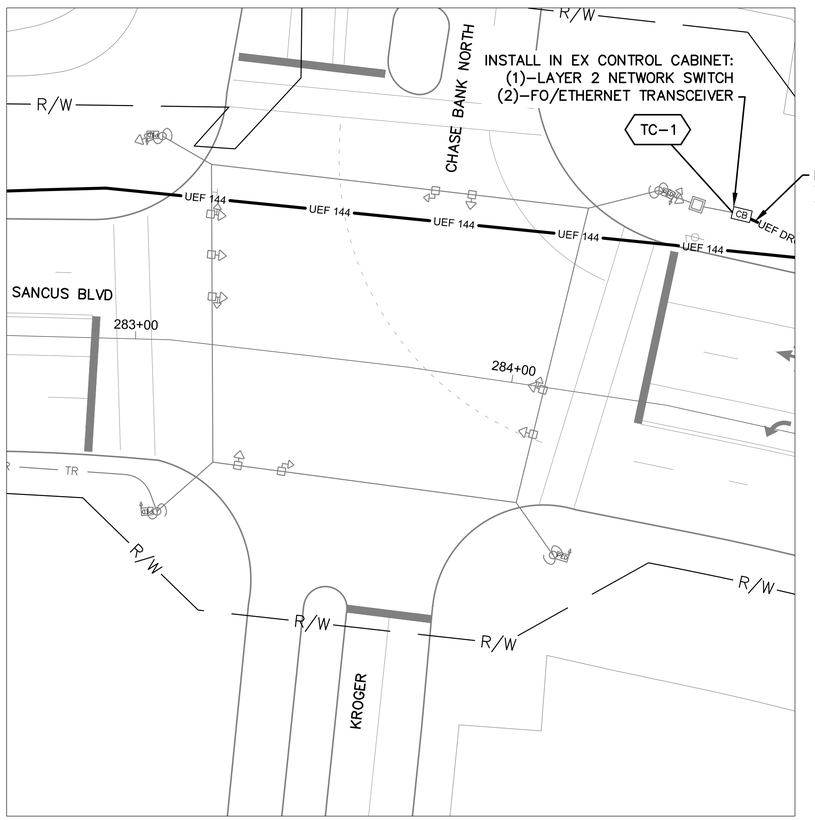
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

383
915

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SANCUS BLVD BETWEEN STATION 278+00 AND 287+00



DETAIL - INT 3235

0 20 40
HORIZONTAL
SCALE IN FEET

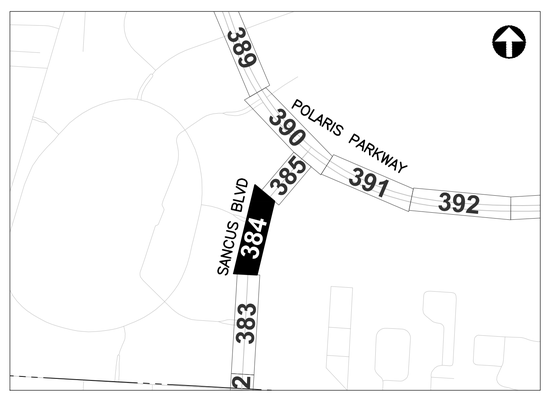
NOTES:

1. SEE SHEET 386 FOR QUANTITIES.
2. SEE SHEETS 617 & 699 FOR COMMUNICATION DETAILS.

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- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 313 FOR
INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

3378-E

0 40 80
HORIZONTAL
SCALE IN FEET

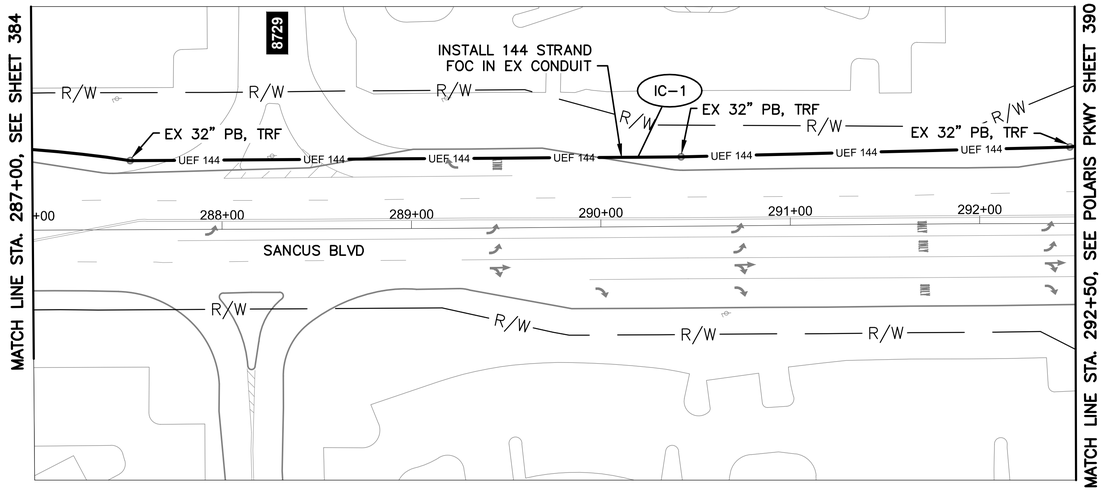
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PID NUMBER: 99733

INTERCONNECT PLAN
SANCUS BLVD BETWEEN STA. 278+00 AND 287+00, INT 3235

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

384
915

J:\Jobs\63721 ctss phase e\TECHPROD\Sheets\CTSS_PhE_Trunk3_SANCUS_2_INTERCONNECT.dwg – SANCUS-11 layout ~ last saved by: gburch 06/15/2018 01:19pm ~ printed 09/20/2018 09:53am PSLTS: 1 LTS: 1 CAS: 1:1



SANCUS BLVD BETWEEN STATION 287+00 AND 292+50

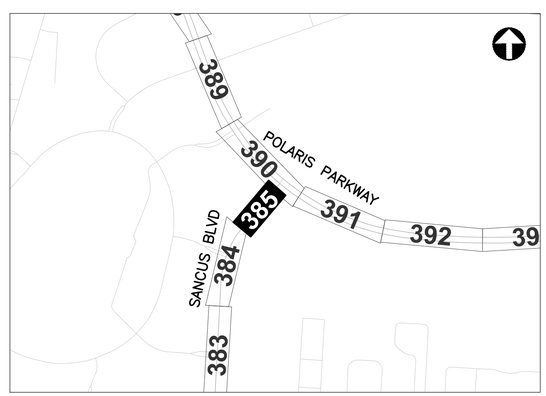
NOTES:

1. SEE SHEET 386 FOR QUANTITIES.
2. SEE SHEET 617 FOR COMMUNICATION DETAILS.

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CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 313 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

3378-E

HORIZONTAL SCALE IN FEET
0 40 80

CIP: 540007-100012
PID NUMBER: 99733

INTERCONNECT PLAN
SANCUS BLVD BETWEEN STA. 287+00 AND 292+50

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

385
915

J:\Jobs\63721 ctss phase e\TECHPROD\Sheets\CTSS_PhE_Trunk3_SANCUS_2_INTERCONNECT1.dwg – SANCUS-12 layout ~ last saved by: gburch 06/15/2018 01:19pm ~ printed 09/12/2018 12:40pm PSLTS: 1 LTS: 1 CAS: 1:1

ESTIMATED QUANTITIES

SHEET NO.	REFERENCE NO.	LOCATION	STATION		202	632	632	632	632	632	633	633												
					EXISTING CONDUIT CLEANED, AS PER PLAN	INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 144 STRAND	INTERCONNECT CABLE, MISC.: FIBER OPTIC DROP CABLE, 24 STRAND	INTERCONNECT CABLE, MISC.: FIBER OPTIC FUSION SPLICE	INTERCONNECT CABLE, MISC.: TERMINATION PANEL, 24 FIBER	INTERCONNECT, MISC.: SPLICE ENCLOSURE, CLAMSHELL, 288 SPLICE	CONTROLLER ITEM, MISC.: FIBER OPTIC ETHERNET TRANSCEIVER, SHORT RANGE	CONTROLLER ITEM, MISC.: LAYER 2 ETHERNET SWITCH											
			FROM	TO	FT	FT	FT	EACH	EACH	EACH	EACH	EACH												
SANCUS BLVD. BETWEEN STA. 262+00 AND 267+00, INT 3243																								
382	IC-2	SANCUS BLVD	265+88, 52' RT	265+89, 49' LT	107		107																	
382	TC-1	SANCUS BLVD	265+88, 52' RT				10		1		2	1												
382	SE U-1	SANCUS BLVD	265+89, 49' LT			225	125	12		1														
382	IC-1	SANCUS BLVD	265+89, 49' LT	267+00, 48' LT	110	110																		
SANCUS BLVD. BETWEEN STA. 267+00 AND 278+00, INT 3219																								
383	IC-1	SANCUS BLVD	267+00, 48' LT	273+33, 38' LT	634	634																		
383	SE U-1	SANCUS BLVD	273+33, 38' LT			150	125	24		1														
383	IC-2	SANCUS BLVD	273+33, 38' LT	278+00, 37' LT	467	467																		
383	TC-1	SANCUS BLVD	273+33, 49' LT				10		1		2	1												
383	IC-3	SANCUS BLVD	273+33, 49' LT	273+33, 38' LT	11		11																	
SANCUS BLVD. BETWEEN STA. 278+00 AND 287+00, INT 3235																								
384	IC-1	SANCUS BLVD	278+00, 37' LT	284+78, 47' LT	694	694																		
384	TC-1	SANCUS BLVD	284+49, 53' LT				10		1		2	1												
384	IC-3	SANCUS BLVD	284+49, 53' LT	284+78, 47' LT	29		29																	
384	SE U-1	SANCUS BLVD	284+78, 47' LT			150	125	24		1														
384	IC-2	SANCUS BLVD	284+78, 47' LT	287+00, 43' LT	234	234																		
SANCUS BLVD. BETWEEN STA. 287+00 AND 292+50																								
385	IC-1	SANCUS BLVD	287+00, 43' LT	292+50, 41' LT	550	550																		
SHEET TOTAL					2,836	3,214	552	60	3	3	6	3	-	-	-	-	-	-	-	-	-	-	-	-

AERIAL SAG: 1.5% AERIAL SAG IS INCLUDED IN THE QUANTITIES FOR ANY AERIAL FIBER OR CABLE ITEMS.

3378-E

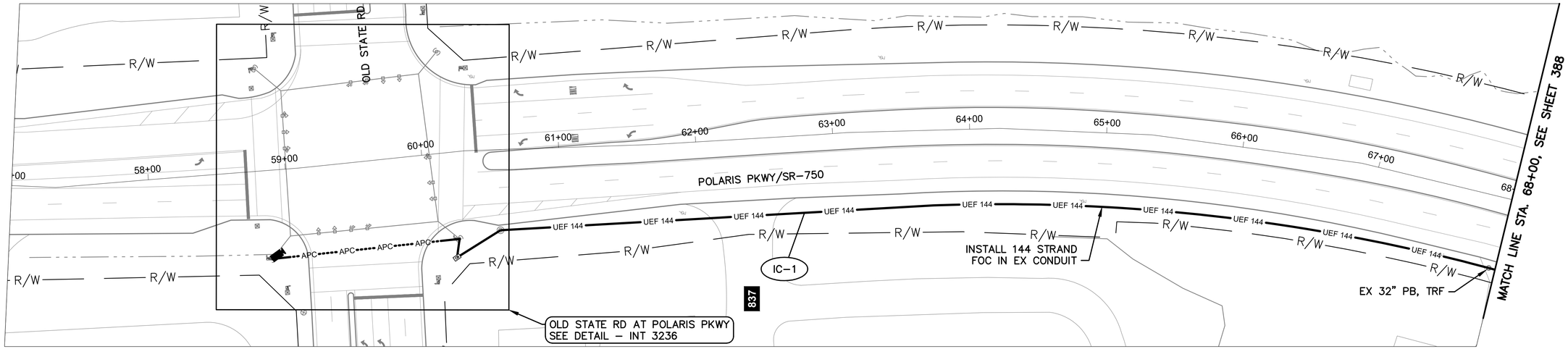
CIP: 540007-100012
PID NUMBER: 99733

SANCUS BLVD BETWEEN STA. 262+00 & 292+50
INTS 3243, 3219, 3235

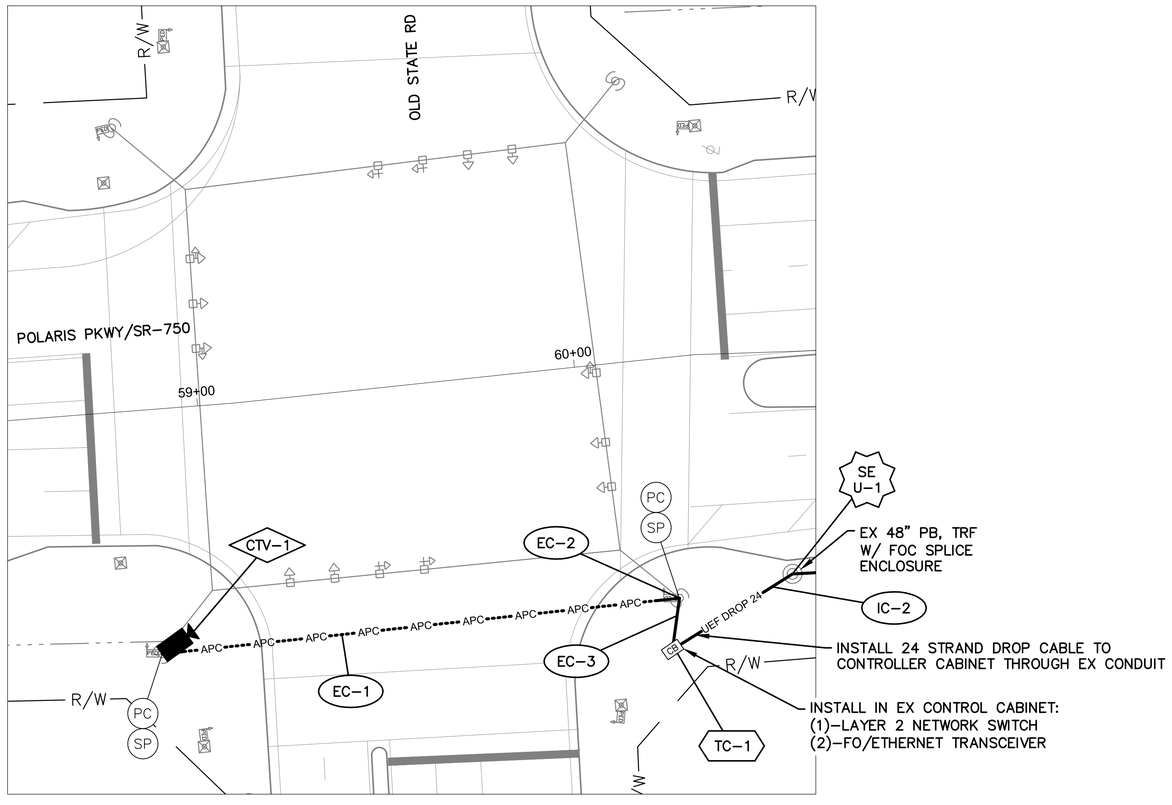
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

386
915

J:\Jobs\63721 CTSS Phase E\TECHPROD\Sheets\CTSS_PhE_Trunk3_SANCUS_JC_QUANTITIES.dwg -- SANCUS BLVD_Q3 layout ~ last saved by gburch 09/11/2018 09:38am ~ printed 09/18/2018 10:12am PSLTS: 1 LTS: 1 CAS: 1:1



POLARIS PKWY BETWEEN STATION 57+00 AND 68+00



DETAIL - INT 3236

0 20 40
HORIZONTAL
SCALE IN FEET

NOTES:

1. SEE SHEET 393 FOR QUANTITIES.
2. SEE SHEETS 617 & 700 FOR COMMUNICATION DETAILS.

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CITY OF COLUMBUS
UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 313 FOR
INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

3378-E

0 40 80
HORIZONTAL
SCALE IN FEET

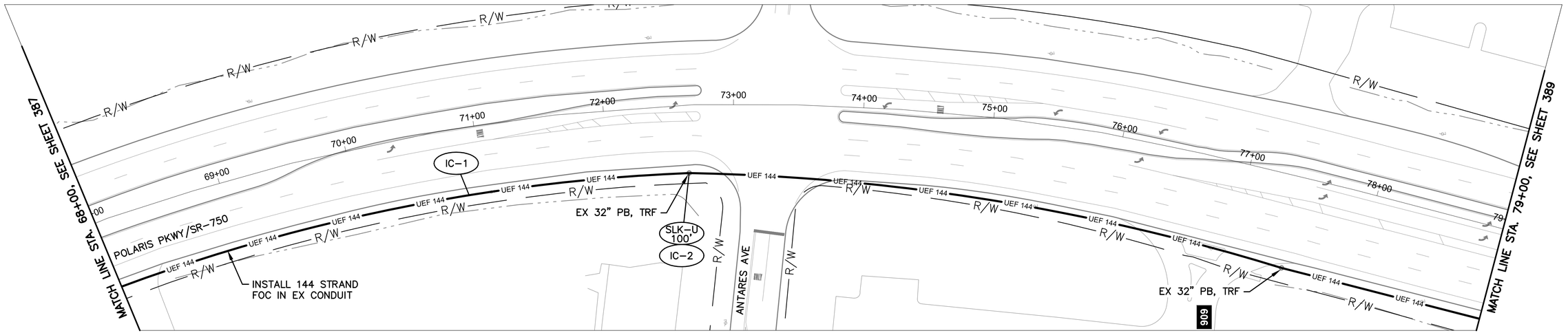
CIP: 540007-100012
PID NUMBER: 99733

INTERCONNECT PLAN
POLARIS PKWY BETWEEN STA. 57+00 AND 68+00, INT 3236

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E - FINAL SUBMITTAL

387
915

J:\Jobs\63721 ctss phase e\TECHPROD\Sheets\CTSS_PhE_Trunk3_POLARIS_INTERCONNECT.dwg ~ POLARIS-1 layout ~ last saved by: gburch 09/07/2018 11:55am ~ printed 09/12/2018 12:44am PSLTS: 1 LTS: 1 CAS: 1:1



POLARIS PKWY BETWEEN STATION 68+00 AND 79+00

NOTES:

1. SEE SHEET 393 FOR QUANTITIES.
2. SEE SHEET 617 FOR COMMUNICATION DETAILS.

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CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 313 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

3378-E

HORIZONTAL SCALE IN FEET
0 40 80

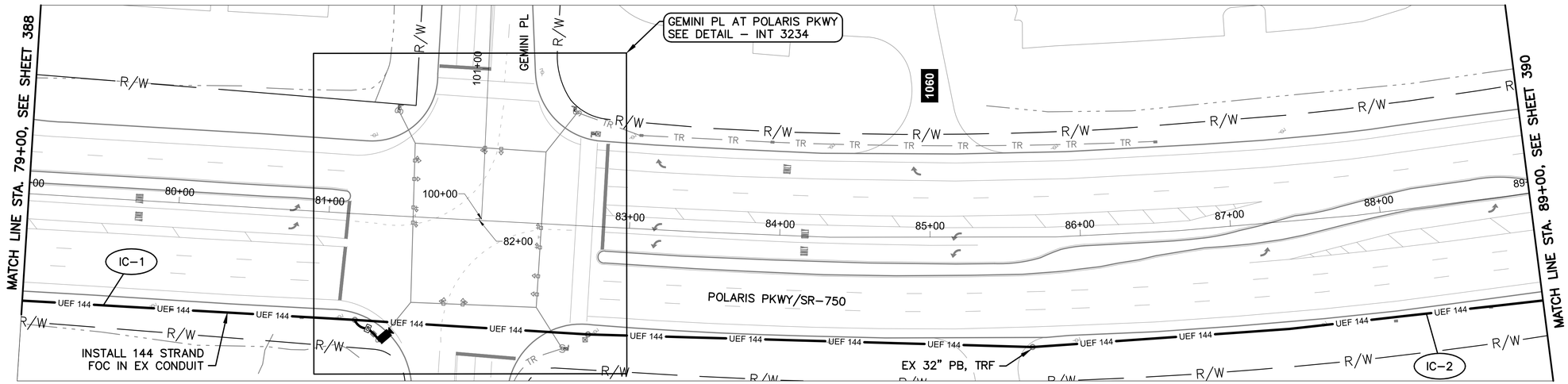
CIP: 540007-100012
PID NUMBER: 99733

INTERCONNECT PLAN
POLARIS PKWY BETWEEN STA. 68+00 AND 79+00

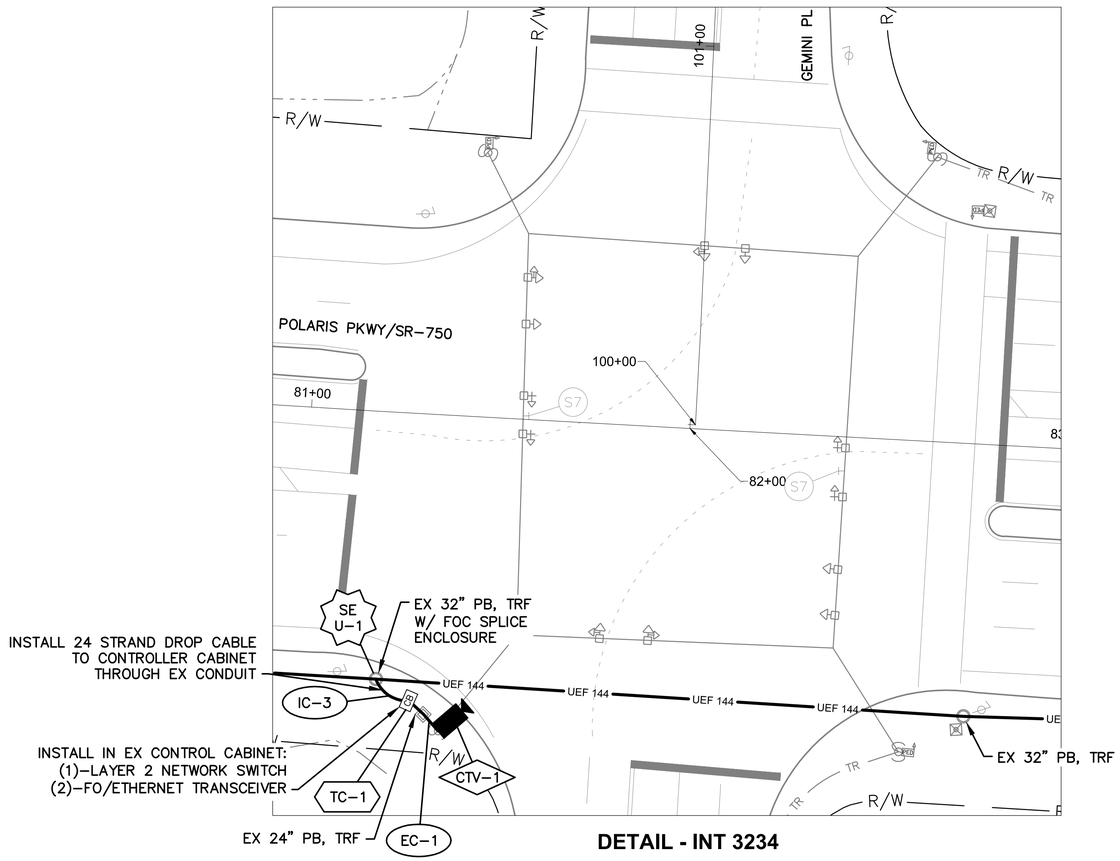
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

388
915

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POLARIS PKWY BETWEEN STATION 79+00 AND 89+00



DETAIL - INT 3234

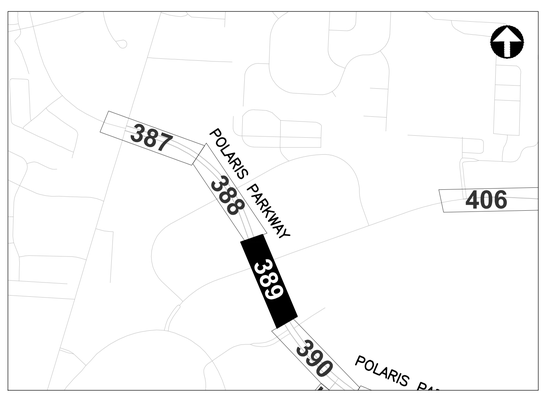
NOTES:

1. SEE SHEET 393 FOR QUANTITIES.
2. SEE SHEETS 617 & 701 FOR COMMUNICATION DETAILS.

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CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 313 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

3378-E

0 40 80
HORIZONTAL
SCALE IN FEET

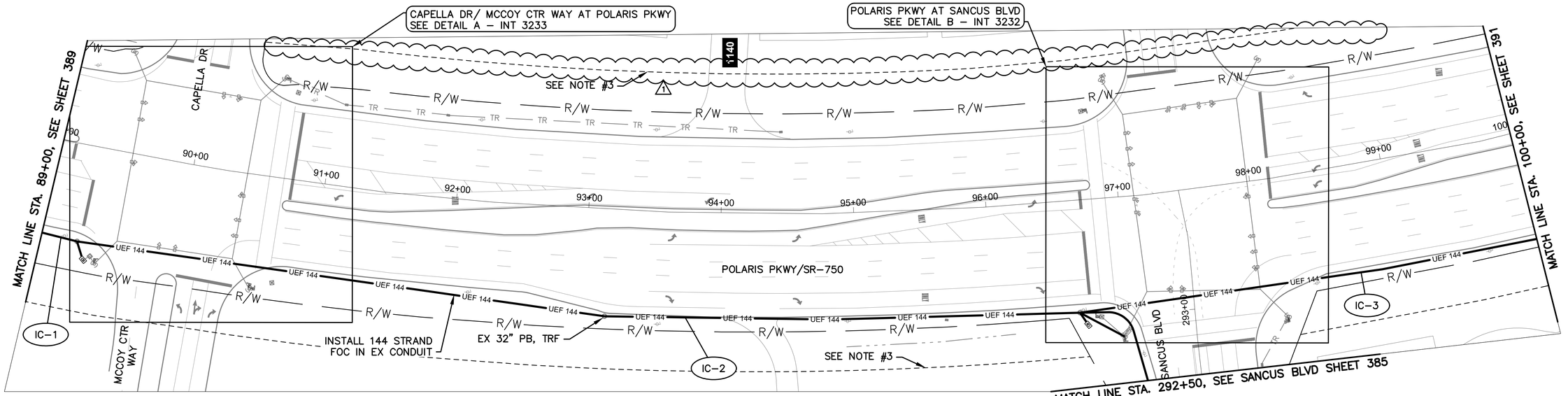
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PID NUMBER: 99733

INTERCONNECT PLAN
POLARIS PKWY BETWEEN STA. 79+00 AND 89+00, INT 3234

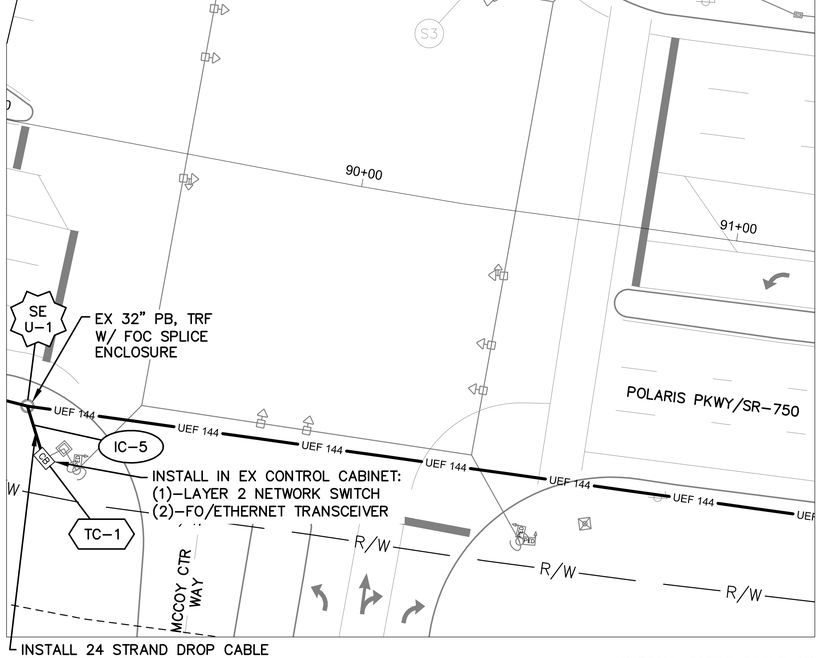
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

389
915

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POLARIS PKWY BETWEEN STATION 89+00 AND 100+00



DETAIL A - INT 3233

HORIZONTAL SCALE IN FEET (0, 20, 40)



DETAIL B - INT 3232

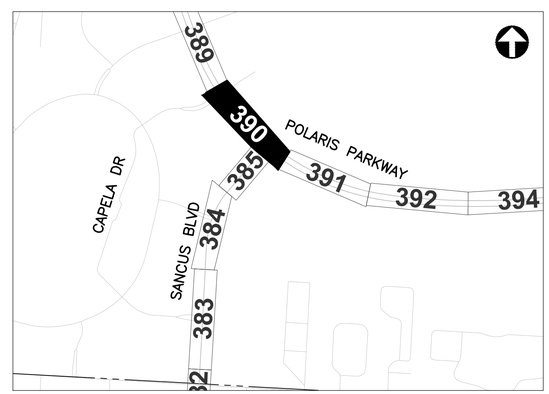
HORIZONTAL SCALE IN FEET (0, 20, 40)

NOTES:

1. SEE SHEET 393 FOR QUANTITIES.
2. SEE SHEETS 617, 702, & 703 FOR COMMUNICATION DETAILS.
3. EXISTING EASEMENT SHOWN PER INSTRUMENT NUMBER #199100012972, DELAWARE COUNTY PLAT BOOK 24, PAGES 137–145.

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CITY OF COLUMBUS UTILITY LEGEND
- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 313 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

1 REVISION 1.0
11–02–2018
3378-E

HORIZONTAL SCALE IN FEET (0, 40, 80)

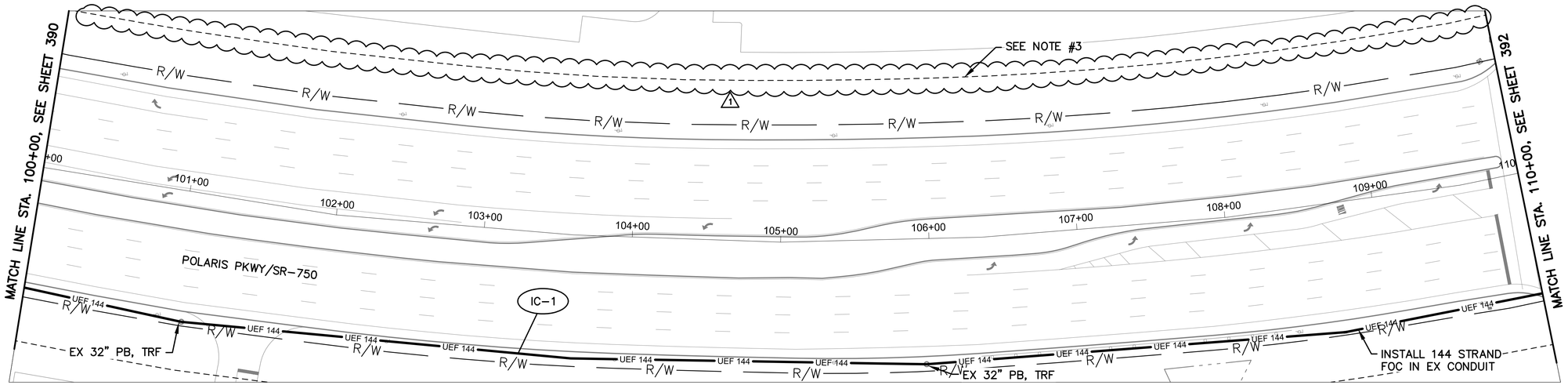
CIP: 540007–100012
PID NUMBER: 99733

INTERCONNECT PLAN
POLARIS PKWY BETWEEN STA. 89+00 AND 100+00, INTS 3233 AND 3232

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

390
915

J:\Jobs\63721 CTSS Phase E\TECHPROD\Sheets\CTSS_PhE_Trunk3_POLARIS_INTERCONNECT.dwg – POLARIS–4 layout ~ last saved by: jbeans 11/05/2018 05:24pm ~ printed 11/06/2018 01:50pm PSLTS: 1 LTS: 1 CAS: 1:1



POLARIS PKWY BETWEEN STATION 100+00 AND 110+00

NOTES:

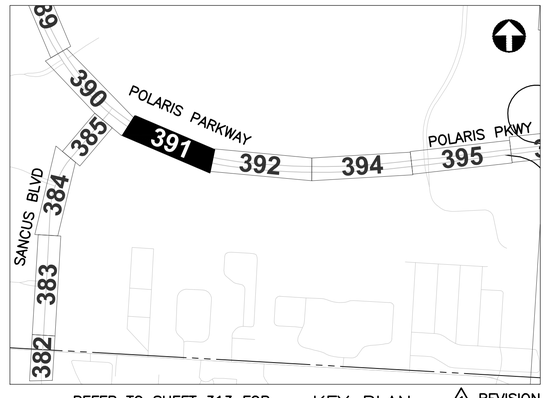
1. SEE SHEET 393 FOR QUANTITIES.
2. SEE SHEET 617 FOR COMMUNICATION DETAILS.
3. EXISTING EASEMENT SHOWN PER INSTRUMENT NUMBER #199100012972, DELAWARE COUNTY PLAT BOOK 24, PAGES 137–145.

1

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CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 313 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

1 REVISION 1.0
11–02–2018

3378-E

HORIZONTAL SCALE IN FEET
0 40 80

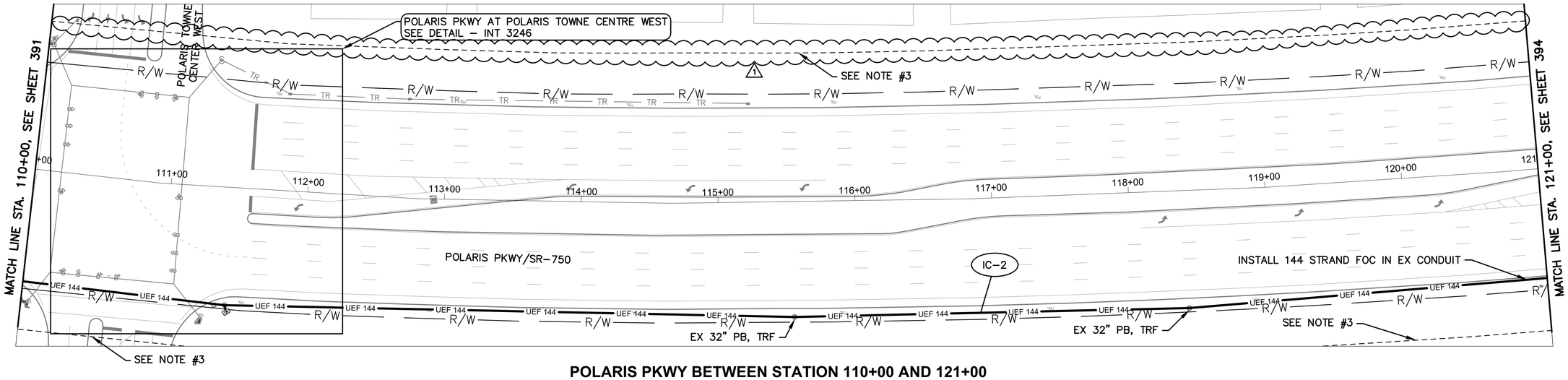
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PID NUMBER: 99733

INTERCONNECT PLAN
POLARIS PKWY BETWEEN STA. 100+00 AND 110+00

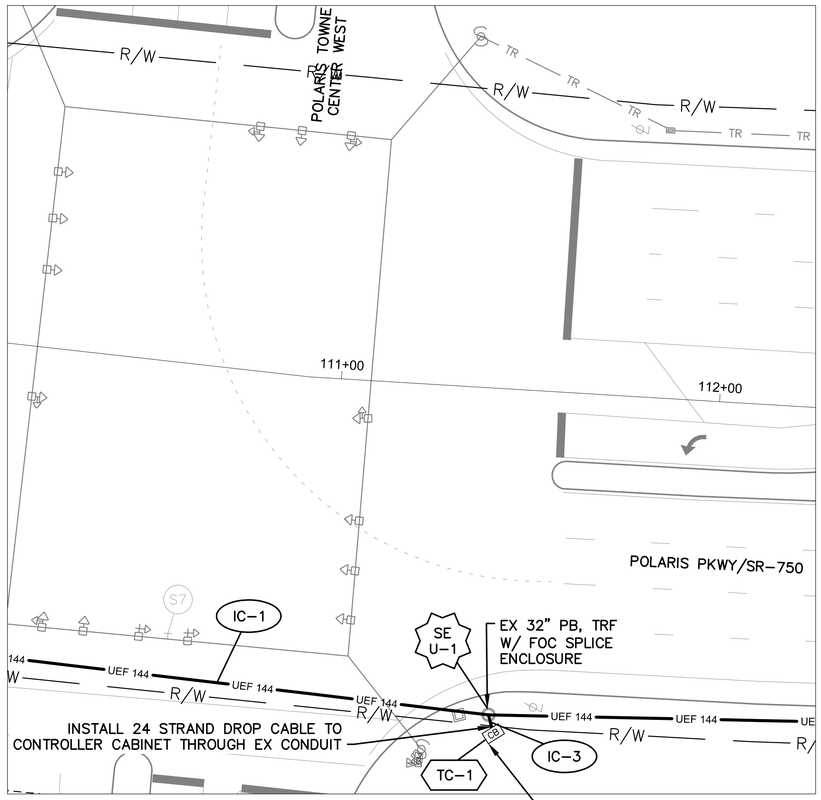
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

391
915

J:\Jobs\63721 CTSS Phase E\TECHPROD\Sheets\CTSS_PhE_Trunk3_POLARIS_INTERCONNECT.dwg – POLARIS–5 layout ~ last saved by: jbeams 11/05/2018 05:24pm ~ printed 11/06/2018 01:52pm PSLTS: 1 LTS: 1 CAS: 1:1



POLARIS PKWY BETWEEN STATION 110+00 AND 121+00



DETAIL - INT 3246

0 20 40
HORIZONTAL SCALE IN FEET

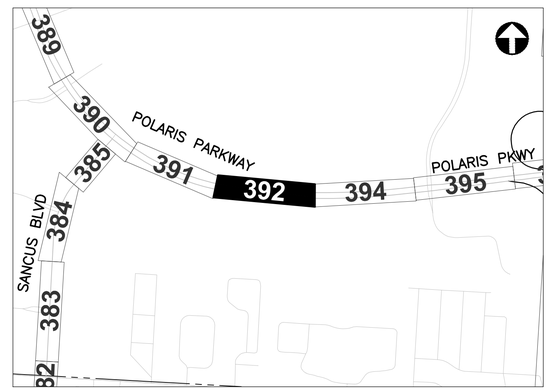
NOTES:

1. SEE SHEET 393 FOR QUANTITIES.
2. SEE SHEETS 617 & 704 FOR COMMUNICATION DETAILS.
3. EXISTING EASEMENT SHOWN PER INSTRUMENT NUMBER #19910000112972, DELAWARE COUNTY PLAT BOOK 24, PAGES 137–145.

1

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CITY OF COLUMBUS UTILITY LEGEND
- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 313 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

0 40 80
HORIZONTAL SCALE IN FEET

CIP: 540007–100012
PID NUMBER: 99733

INTERCONNECT PLAN
POLARIS PKWY BETWEEN STA. 110+00 AND 121+00, INT 3246

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

1 REVISION 1.0
11–02–2018

3378-E

392
915

J:\Jobs\63721 CTSS Phase E\TECHPROD\Sheets\CTSS_PhE_Trunk3_POLARIS_INTERCONNECT.dwg – POLARIS–6 layout ~ last saved by: jbeans 11/05/2018 05:24pm ~ printed 11/06/2018 01:54pm PSLTS: 1 LTS: 1 CAS: 1:1

ESTIMATED QUANTITIES

SHEET NO.	REFERENCE NO.	LOCATION	STATION		202	632	632	632	632	632	632	632	632	632	633	633									
					EXISTING CONDUIT CLEANED, AS PER PLAN	INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 144 STRAND	INTERCONNECT CABLE, MISC.: FIBER OPTIC DROP CABLE, 24 STRAND	INTERCONNECT CABLE, MISC.: FIBER OPTIC FUSION SPLICE	INTERCONNECT CABLE, MISC.: TERMINATION PANEL, 24 FIBER	INTERCONNECT, MISC.: CAT 5E CABLE, OUTDOOR RATED	INTERCONNECT, MISC.: SPLICE ENCLOSURE, CLAMSHELL, 288 SPLICE	MESSENGER WIRE, 7 STRAND, 1/4" DIAMETER WITH ACCESSORIES, AS PER PLAN	SIGNALIZATION, MISC.: CCTV COMPOSITE CABLE	SIGNALIZATION, MISC.: CCTV IP-CAMERA SYSTEM	CONTROLLER ITEM, MISC.: FIBER OPTIC ETHERNET TRANSCEIVER, SHORT RANGE	CONTROLLER ITEM, MISC.: LAYER 2 ETHERNET SWITCH								
			FROM	TO	FT	FT	FT	EACH	EACH	FT	EACH	FT	FT	EACH	EACH	EACH								
POLARIS PKWY. BETWEEN STA. 57+00 AND 68+00, INT 3236																									
387	CTV-1	POLARIS PKWY	58+86, 65' RT											1											
387	EC-1	POLARIS PKWY	58+86, 65' RT	60+21, 63' RT								139	278												
387	EC-3	POLARIS PKWY	60+18, 77' RT	60+21, 63' RT	14								28												
387	TC-1	POLARIS PKWY	60+18, 77' RT				10		1				20		2	1									
387	IC-2	POLARIS PKWY	60+18, 77' RT	60+56, 58' RT	38		38																		
387	EC-2	POLARIS PKWY	60+21, 63' RT										70												
387	SE U-1	POLARIS PKWY	60+56, 58' RT			75	125	12			1														
387	IC-1	POLARIS PKWY	60+56, 58' RT	68+00, 53' RT	744	744																			
POLARIS PKWY. BETWEEN STA. 68+00 AND 79+00																									
388	IC-1	POLARIS PKWY	68+00, 53' RT	79+00, 71' RT	1,064	1,064																			
388	IC-2	POLARIS PKWY	72+62, 52' RT			100																			
POLARIS PKWY. BETWEEN STA. 79+00 AND 89+00, INT 3234																									
389	IC-1	POLARIS PKWY	79+00, 71' RT	81+20, 71' RT	222	222																			
389	SE U-1	POLARIS PKWY	81+20, 71' RT			150	125	24			1														
389	IC-3	POLARIS PKWY	81+20, 71' RT	81+29, 76' RT	11		11																		
389	IC-2	POLARIS PKWY	81+20, 71' RT	89+00, 72' RT	792	792																			
389	TC-1	POLARIS PKWY	81+29, 76' RT				10		1				20		2	1									
389	EC-1	POLARIS PKWY	81+29, 76' RT	81+38, 83' RT	11								22												
389	CTV-1	POLARIS PKWY	81+38, 83' RT										35	1											
POLARIS PKWY. BETWEEN STA. 89+00 AND 100+00, INTS 3233 & 3232																									
390	IC-1	POLARIS PKWY	89+00, 72' RT	89+24, 73' RT	27	27																			
390	SE U-1	POLARIS PKWY	89+24, 73' RT			150	125	24			1														
390	IC-5	POLARIS PKWY	89+24, 73' RT	89+30, 86' RT	14		14																		
390	IC-2	POLARIS PKWY	89+24, 73' RT	96+64, 85' RT	761	761																			
390	TC-1	POLARIS PKWY	89+30, 86' RT				10		1						2	1									
390	SE U-2	POLARIS PKWY	96+64, 85' RT			225	250	228			1														
390	IC-6	POLARIS PKWY	96+64, 85' RT	96+70, 94' RT	11		22																		
390	EC-3	POLARIS PKWY	96+64, 85' RT	96+70, 94' RT						22															
390	EC-2	POLARIS PKWY	96+64, 85' RT	96+96, 105' RT	38					76															
390	IC-4	POLARIS PKWY	96+64, 85' RT	97+12, 140' RT	86	86																			
390	IC-3	POLARIS PKWY	96+64, 85' RT	100+00, 82' RT	349	349																			
390	TC-2	POLARIS PKWY	96+70, 94' RT				20		2	20					2	1									
390	EC-1	POLARIS PKWY	96+96, 105' RT										35												
POLARIS PKWY. BETWEEN STA. 100+00 AND 110+00																									
391	IC-1	POLARIS PKWY	100+00, 82' RT	110+00, 82' RT	1,031	1,031																			
POLARIS PKWY. BETWEEN STA. 110+00 AND 121+00, INT 3246																									
392	IC-1	POLARIS PKWY	110+00, 82' RT	111+44, 86' RT	148	148																			
392	SE U-1	POLARIS PKWY	111+44, 86' RT			150	125	24			1														
392	IC-3	POLARIS PKWY	111+44, 86' RT	111+45, 91' RT	5		5																		
392	IC-2	POLARIS PKWY	111+44, 86' RT	121+00, 80' RT	968	968																			
392	TC-1	POLARIS PKWY	111+45, 91' RT				10		1						2	1									
SHEET TOTAL					6,334	7,042	900	312	6	118	5	139	508	2	10	5	-	-	-	-	-	-	-	-	

AERIAL SAG: 1.5% AERIAL SAG IS INCLUDED IN THE QUANTITIES FOR ANY AERIAL FIBER OR CABLE ITEMS.

3378-E

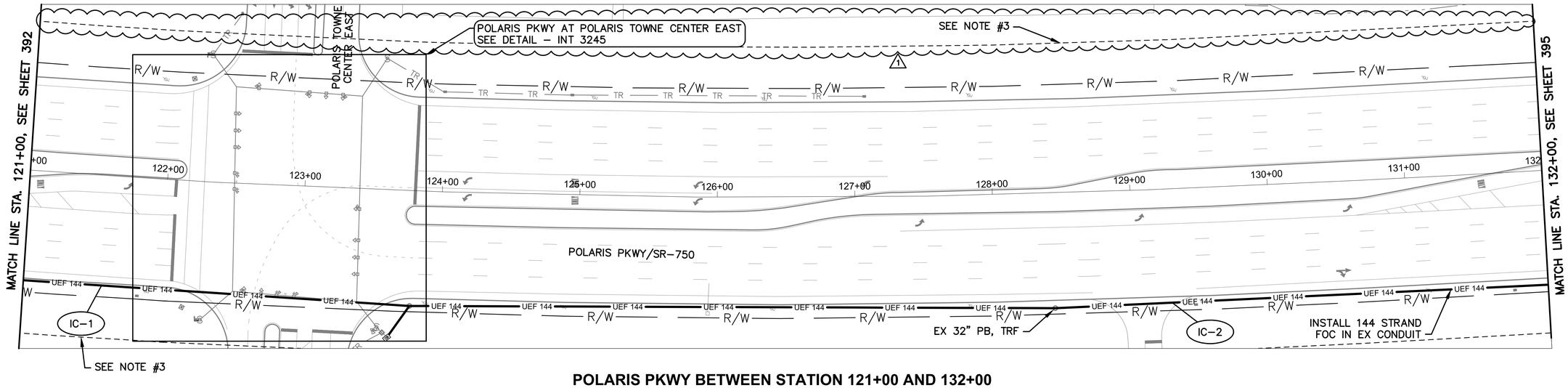
CIP: 540007-100012
PID NUMBER: 99733

POLARIS PARKWAY BETWEEN STA. 57+00 & 121+00
INTS 3236, 3234, 3233, 3232, 3246

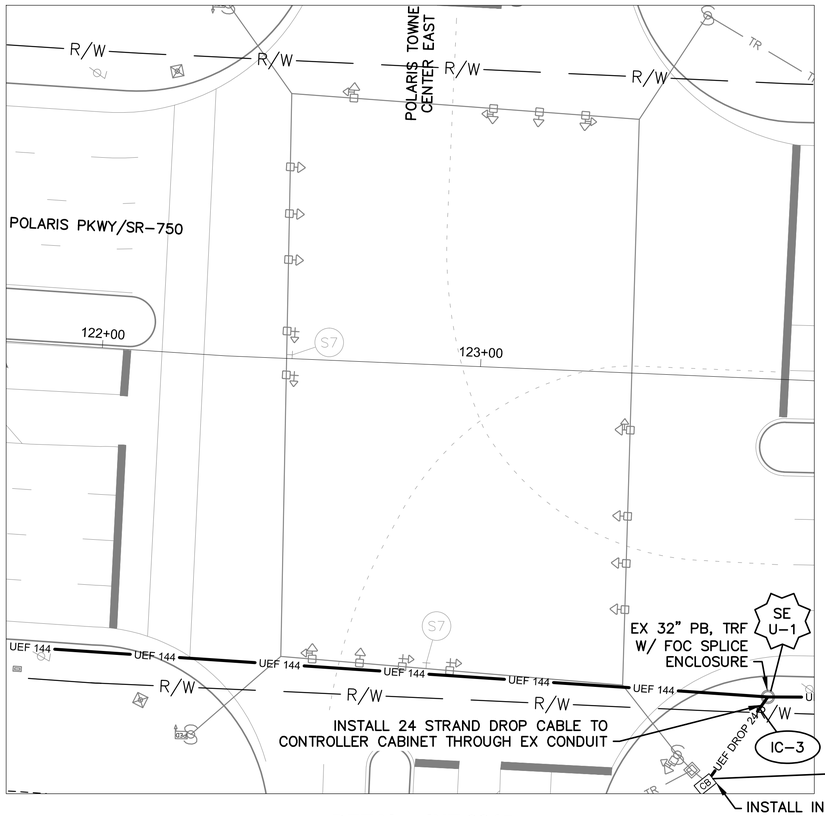
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

393
915

J:\Jobs\63721 CTSS Phase E\TECHPROD\Sheets\CTSS_PhE_Trunk3_POLARIS_PY_IC_QUANTITIES.dwg -- POLARIS PARKWAY_01 layout -- last saved by: gburch 09/05/2018 02:33pm -- printed 09/18/2018 10:13am PSLTS: 1 LTS: 1 CAS: 1:1



POLARIS PKWY BETWEEN STATION 121+00 AND 132+00



DETAIL - INT 3245

0 20 40
HORIZONTAL
SCALE IN FEET

NOTES:

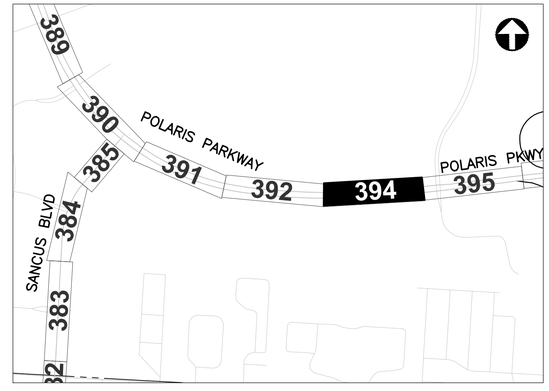
1. SEE SHEET 398 FOR QUANTITIES.
2. SEE SHEETS 617 & 705 FOR COMMUNICATION DETAILS.
3. EXISTING EASEMENT IS SHOWN PER INSTRUMENT NUMBER #19910001129 72, DELAWARE COUNTY PLAT BOOK 24, PAGES 137–145.

△1

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CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 313 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

△1 REVISION 1.0
11–02–2018

3378-E

0 40 80
HORIZONTAL
SCALE IN FEET

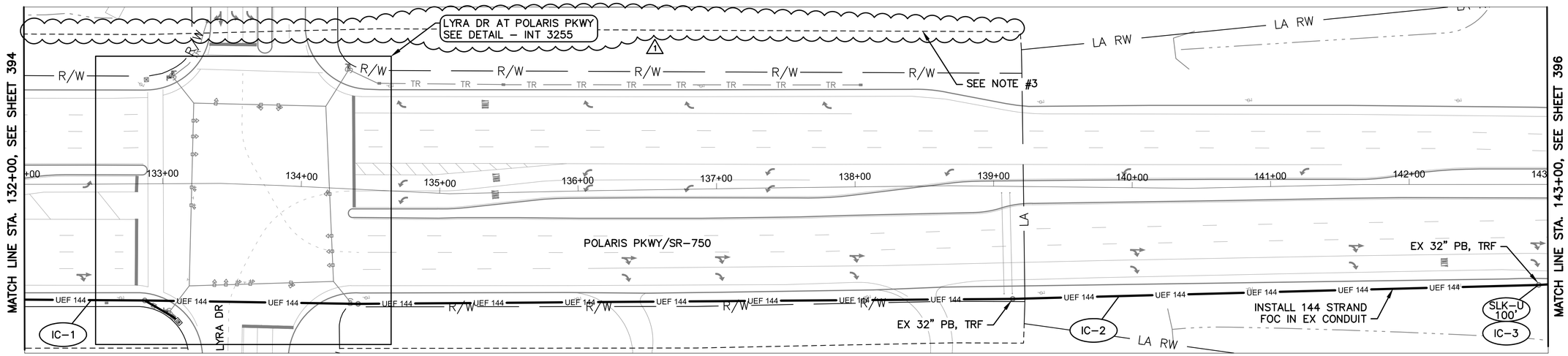
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PID NUMBER: 99733

INTERCONNECT PLAN
POLARIS PKWY BETWEEN STA. 121+00 AND 132+00, INT 3245

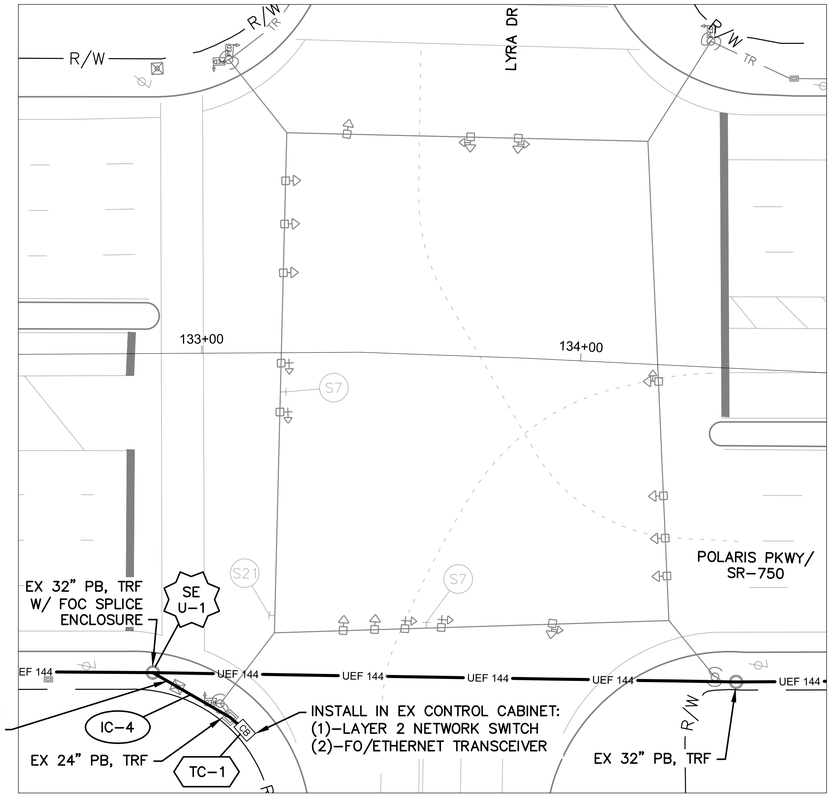
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

394
915

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POLARIS PKWY BETWEEN STATION 132+00 AND 143+00



DETAIL - INT 3255

0 20 40

HORIZONTAL
SCALE IN FEET

NOTES:

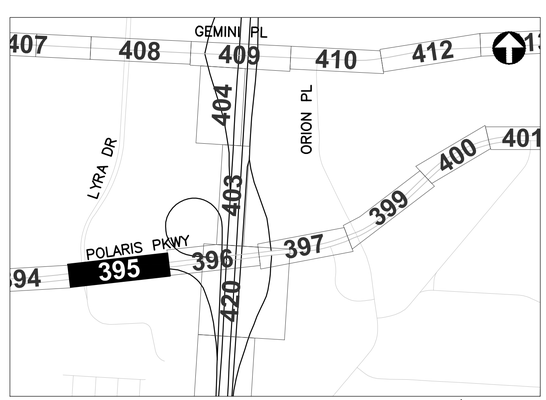
1. SEE SHEET 398 FOR QUANTITIES.
2. SEE SHEETS 618 & 706 FOR COMMUNICATION DETAILS.
3. EXISTING EASEMENT SHOWN PER INSTRUMENT NUMBER #199100012972, DELAWARE COUNTY PLAT BOOK 24, PAGES 137–145.

△1

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CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 313 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

△1 REVISION 1.0
11–02–2018

3378-E

0 40 80
HORIZONTAL
SCALE IN FEET

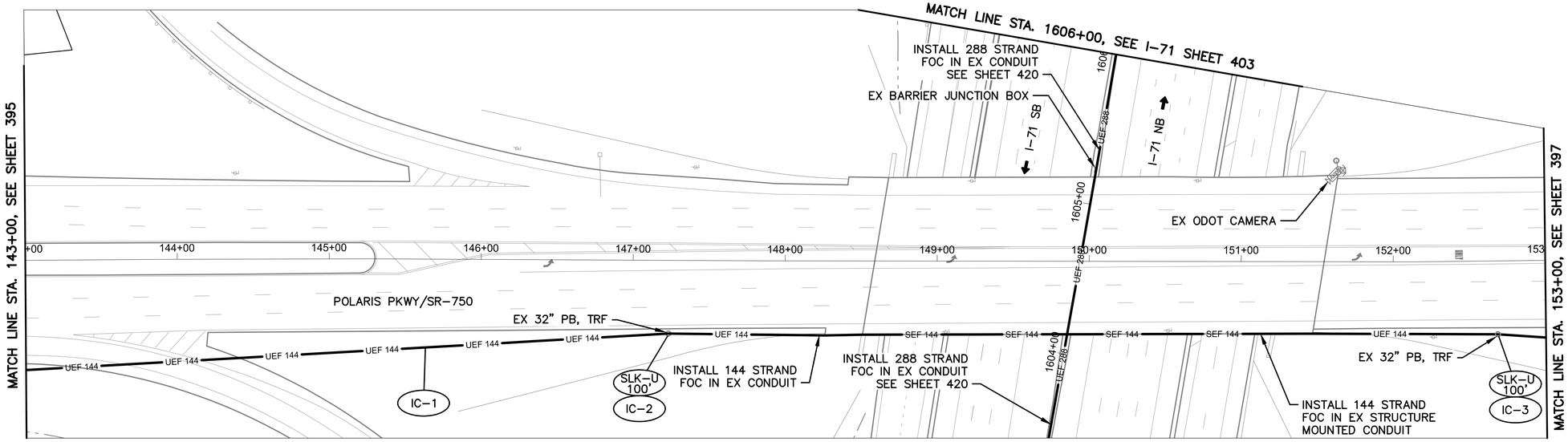
CIP: 540007–100012
PID NUMBER: 99733

INTERCONNECT PLAN
POLARIS PKWY BETWEEN STA. 132+00 AND 143+00, INT 3255

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

395
915

J:\Jobs\63721 CTSS Phase E\TECHPROD\Sheets\CTSS_PhE_Trunk3_POLARIS_INTERCONNECT.dwg ~ POLARIS-8 layout ~ last saved by: jbeans 11/05/2018 05:24pm ~ printed 11/06/2018 02:19pm PSLTS: 1 LTS: 1 CAS: 1:1



POLARIS PKWY BETWEEN STATION 143+00 AND 153+00

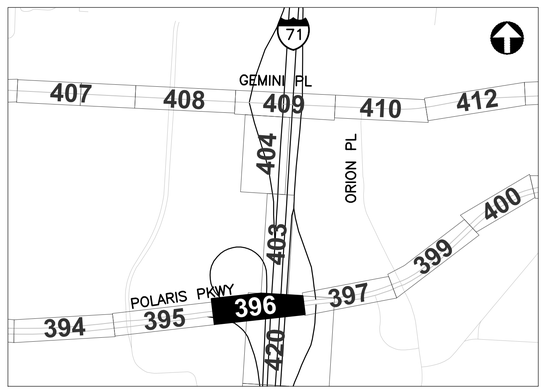
NOTES:

1. SEE SHEET 398 FOR QUANTITIES.
2. SEE SHEET 618 FOR COMMUNICATION DETAILS.
3. LIMITED ACCESS RIGHT IF WAY IS LOCATED OUTSIDE OF THE EXTENT OF VIEW SHOWN ABOVE.

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CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 313 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

3378-E

HORIZONTAL SCALE IN FEET
0 40 80

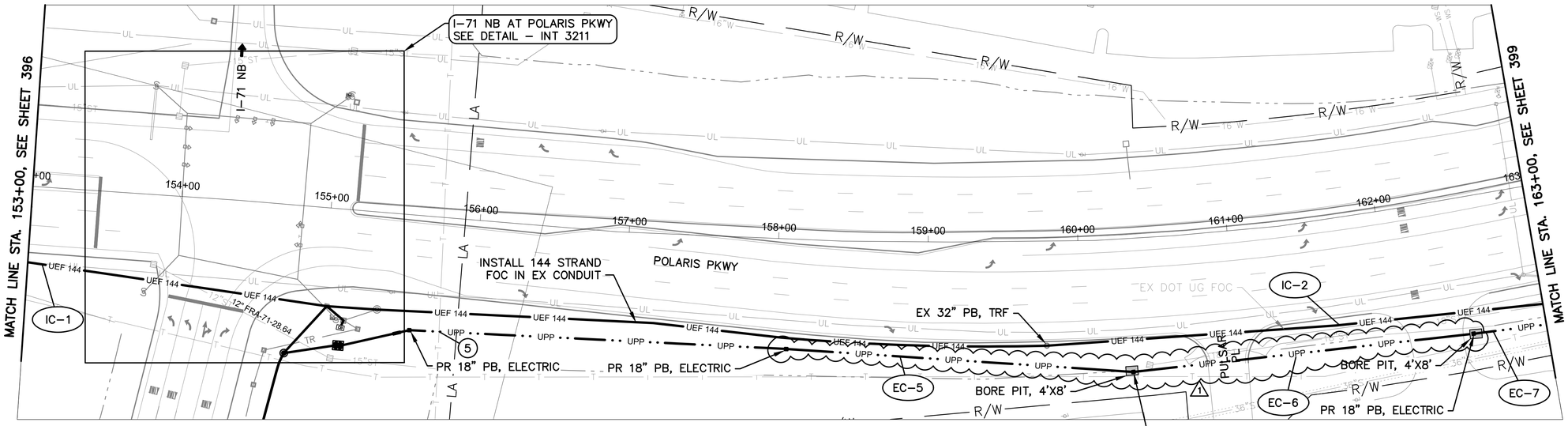
CIP: 540007-100012
PID NUMBER: 99733

INTERCONNECT PLAN
POLARIS PKWY BETWEEN STA. 143+00 AND 153+00

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

396
915

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POLARIS PKWY BETWEEN STATION 153+00 AND 163+00

DETAIL - INT 3211

0 20 40
HORIZONTAL SCALE IN FEET

NOTES:

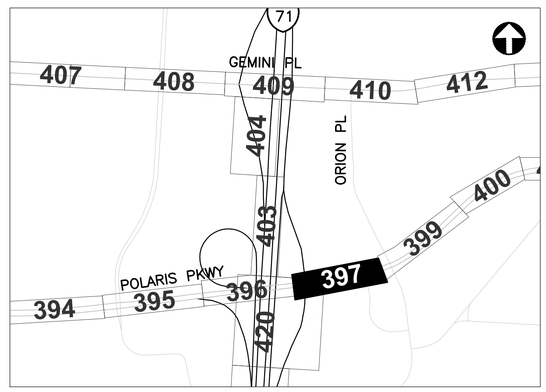
1. SEE SHEET 398 FOR QUANTITIES.
2. SEE SHEETS 618 & 707 FOR COMMUNICATION DETAILS.
3. SEE SHEET 596 FOR COMMUNICATIONS NODE DETAIL.
4. LIMITED ACCESS RIGHT OF WAY IS LOCATED OUTSIDE THE EXTENT OF VIEW SHOWN ABOVE.

(#) EXISTING UTILITY CROSSING. SEE UTILITY CROSSING INFO SHEET 325.

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CITY OF COLUMBUS UTILITY LEGEND

☒	SEWER
☒	WATER
☐	POWER
☒	LIGHTING



REFER TO SHEET 313 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

1 REVISION 1.0
11–02–2018

3378-E

0 40 80
HORIZONTAL SCALE IN FEET

CIP: 540007–100012
PID NUMBER: 99733

INTERCONNECT PLAN
POLARIS PKWY BETWEEN STA. 153+00 AND 163+00, INT 3211

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

397
915

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ESTIMATED QUANTITIES

SHEET NO.	REFERENCE NO.	LOCATION	STATION		202	625	625	625	625	625	625	625	625	625	632	632	632	632	632	632	633	633		
					EXISTING CONDUIT CLEANED, AS PER PLAN	CONDUIT, 2", AS PER PLAN	CONDUIT, 3", AS PER PLAN	CONDUIT, CONCRETE ENCASED, 2-3", 725.05, AS PER PLAN	CONDUIT, JACKED OR DRILLED, 3", AS PER PLAN	DISTRIBUTION CABLE, NO. 1	DISTRIBUTION CABLE, NO. 6	GROUND ROD	PULL BOX, 18", 725.08, AS PER PLAN	TRENCH, 36" DEEP, AS PER PLAN	INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 144 STRAND	INTERCONNECT CABLE, MISC.: FIBER OPTIC DROP CABLE, 24 STRAND	INTERCONNECT CABLE, MISC.: FIBER OPTIC FUSION SPLICE	INTERCONNECT CABLE, MISC.: TERMINATION PANEL, 24 FIBER	INTERCONNECT, MISC.: CAT 5E CABLE, OUTDOOR RATED	INTERCONNECT, MISC.: SPLICE ENCLOSURE, CLAMSHELL, 288 SPLICE	CONTROLLER ITEM, MISC.: FIBER OPTIC ETHERNET TRANSCEIVER, SHORT RANGE	CONTROLLER ITEM, MISC.: LAYER 2 ETHERNET SWITCH		
			FROM	TO	FT	FT	FT	FT	FT	FT	FT	EACH	EACH	FT	FT	FT	EACH	EACH	FT	EACH	EACH	EACH		
POLARIS PKWY. BETWEEN STA. 121+00 AND 132+00, INT 3245																								
394	IC-1	POLARIS PKWY	121+00, 80' RT	123+79, 84' RT	281										281									
394	TC-1	POLARIS PKWY	123+63, 108' RT													10		1			2	1		
394	IC-3	POLARIS PKWY	123+63, 108' RT	123+79, 84' RT	28											28								
394	SE U-1	POLARIS PKWY	123+79, 84' RT												150	125	24			1				
394	IC-2	POLARIS PKWY	123+79, 84' RT	132+00, 83' RT	829										829									
POLARIS PKWY. BETWEEN STA. 132+00 AND 143+00, INT 3255																								
395	IC-1	POLARIS PKWY	132+00, 83' RT	132+86, 84' RT	87										87									
395	SE U-1	POLARIS PKWY	132+86, 84' RT												150	125	24			1				
395	IC-4	POLARIS PKWY	132+86, 84' RT	133+10, 100' RT	28											28								
395	IC-2	POLARIS PKWY	132+86, 84' RT	143+00, 72' RT	1,013										1,013									
395	TC-1	POLARIS PKWY	133+10, 100' RT													10		1			2	1		
395	IC-3	POLARIS PKWY	142+93, 73' RT												100									
POLARIS PKWY. BETWEEN STA. 143+00 AND 153+00																								
396	IC-1	POLARIS PKWY	143+00, 72' RT	153+00, 51' RT	1,001										1,001									
396	IC-2	POLARIS PKWY	147+23, 48' RT												100									
396	IC-3	POLARIS PKWY	152+68, 48' RT												100									
POLARIS PKWY. BETWEEN STA. 153+00 AND 163+00, INT 3211																								
397	IC-1	POLARIS PKWY	153+00, 51' RT	155+02, 66' RT	202										202									
397	IC-3	POLARIS PKWY	154+76, 99' RT	155+02, 66' RT				43						43	86									
397	EC-1	POLARIS PKWY	154+76, 99' RT	155+02, 66' RT																43				
397	EC-1	POLARIS PKWY	154+76, 99' RT	155+14, 91' RT																35				
397	CN-1	POLARIS PKWY	155+14, 91' RT								30	2												
397	EC-4	POLARIS PKWY	155+14, 91' RT	155+59, 77' RT		47					141			47										
397	EC-2	POLARIS PKWY	155+02, 66' RT	155+12, 79' RT	20															20				
397	IC-2	POLARIS PKWY	155+02, 66' RT	163+00, 80' RT	816										816									
397	TC-1	POLARIS PKWY	155+13, 79' RT																	10		1		
397	EC-5	POLARIS PKWY	155+59, 77' RT	160+32, 89' RT			485			1,455			2	485										
397	EC-6	POLARIS PKWY	160+32, 89' RT	162+51, 91' RT					229	687			2											
397	EC-7	POLARIS PKWY	162+51, 91' RT	163+00, 93' RT			49			147				49										
SHEET TOTAL					4,305	47	534	43	229	2,289	171	2	4	624	4,915	326	48	2	108	2	4	3	-	-

AERIAL SAG: 1.5% AERIAL SAG IS INCLUDED IN THE QUANTITIES FOR ANY AERIAL FIBER OR CABLE ITEMS.

1 REVISION 1.0 11–02–2018

3378-E

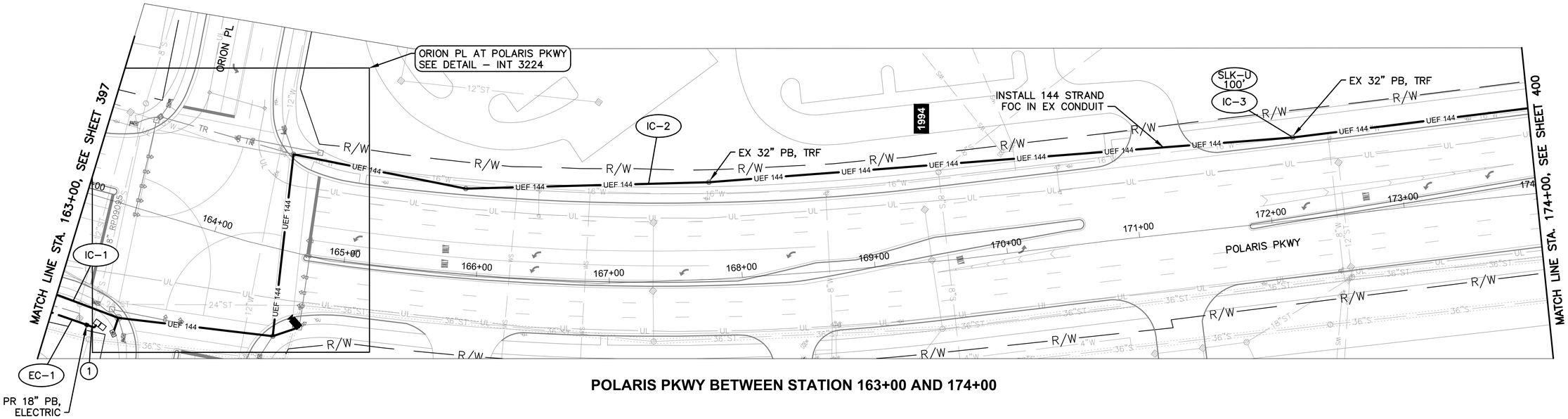
CIP: 540007–100012
PID NUMBER: 99733

POLARIS PARKWAY BETWEEN STA. 121+00 & 163+00
INTS 3245, 3255, 3211

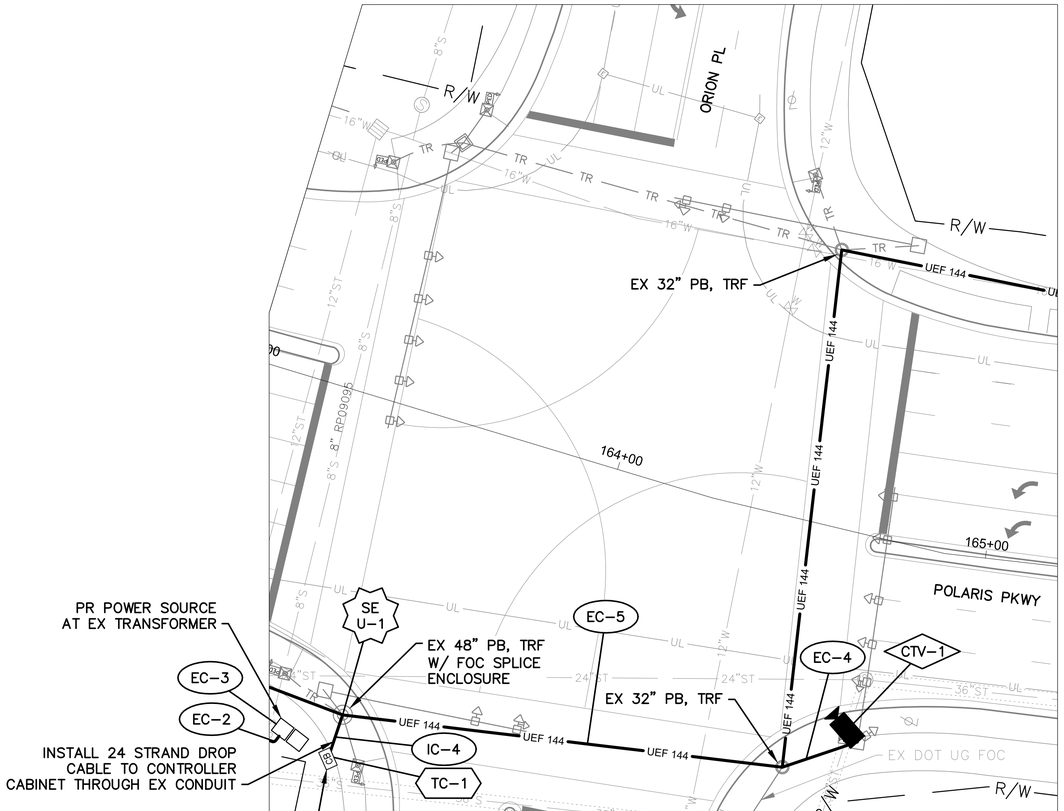
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

398
915

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POLARIS PKWY BETWEEN STATION 163+00 AND 174+00



DETAIL - INT 3224

0 20 40
HORIZONTAL SCALE IN FEET

NOTES:

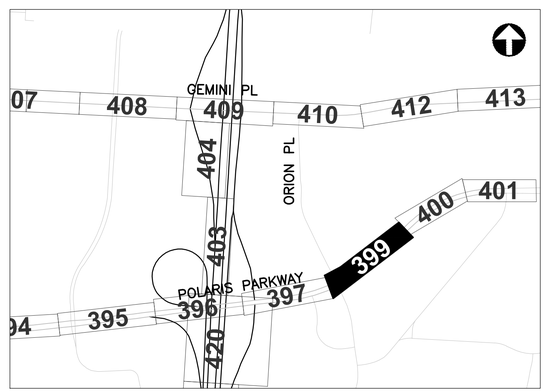
1. SEE SHEET 402 FOR QUANTITIES.
2. SEE SHEETS 618 & 708 FOR COMMUNICATION DETAILS.

(#) EXISTING UTILITY CROSSING. SEE UTILITY CROSSING INFO SHEET 325.

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CITY OF COLUMBUS UTILITY LEGEND

- [X] SEWER
- [ ] WATER
- [ ] POWER
- [ ] LIGHTING



REFER TO SHEET 313 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

3378-E

0 40 80
HORIZONTAL SCALE IN FEET

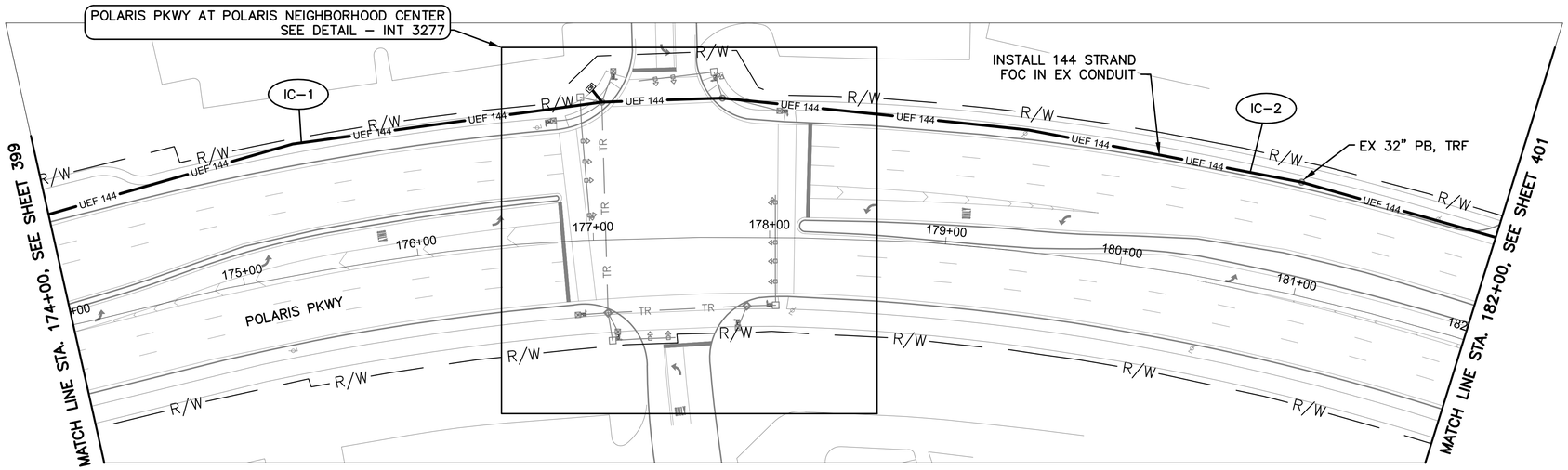
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PID NUMBER: 99733

INTERCONNECT PLAN
POLARIS PKWY BETWEEN STA. 163+00 AND 174+00, INT 3224

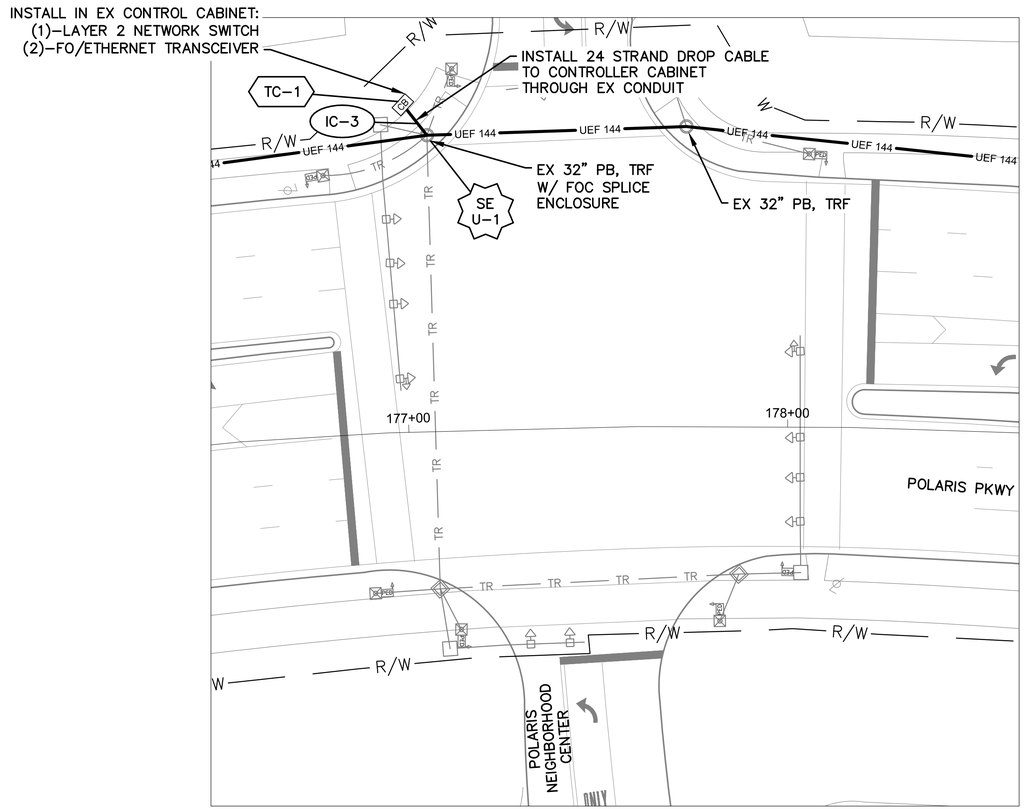
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

399
915

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POLARIS PKWY BETWEEN STATION 174+00 AND 182+00



DETAIL - INT 3277

0 20 40
HORIZONTAL
SCALE IN FEET

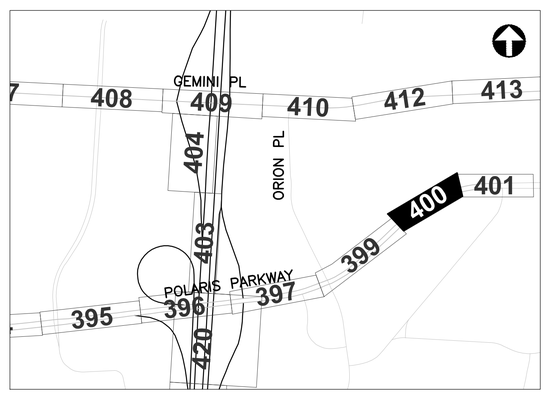
NOTES:

1. SEE SHEET 402 FOR QUANTITIES.
2. SEE SHEETS 618 & 709 FOR COMMUNICATION DETAILS.

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CITY OF COLUMBUS
UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 313 FOR
INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

3378-E

0 40 80
HORIZONTAL
SCALE IN FEET

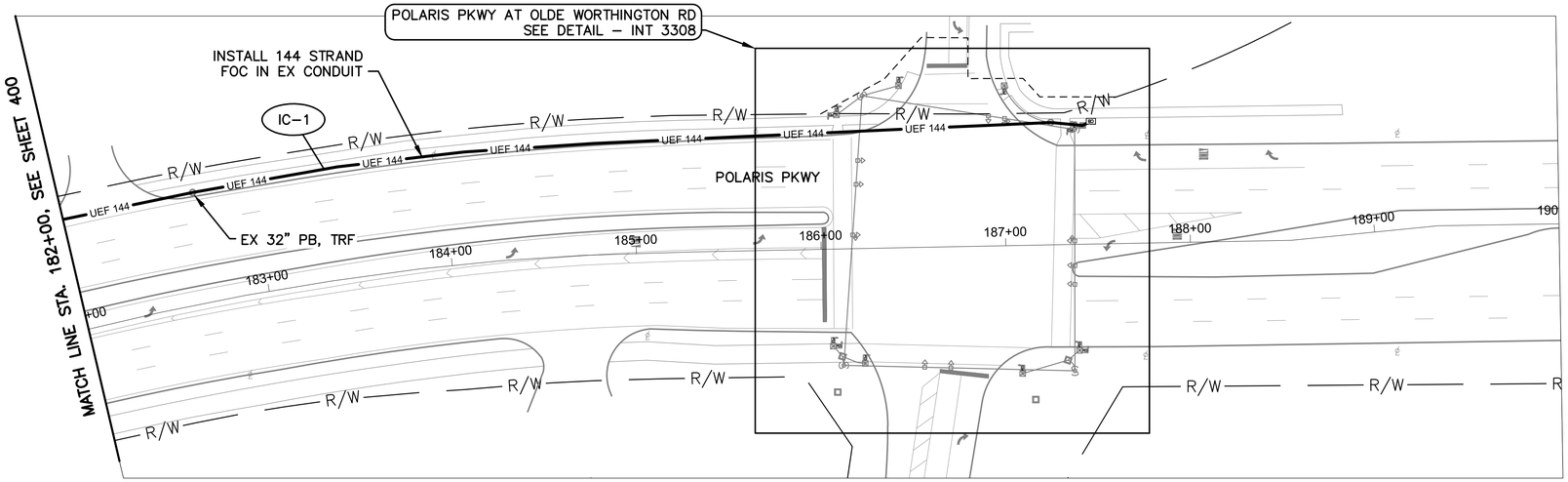
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PID NUMBER: 99733

INTERCONNECT PLAN
POLARIS PKWY BETWEEN STA. 174+00 AND 182+00, INT 3277

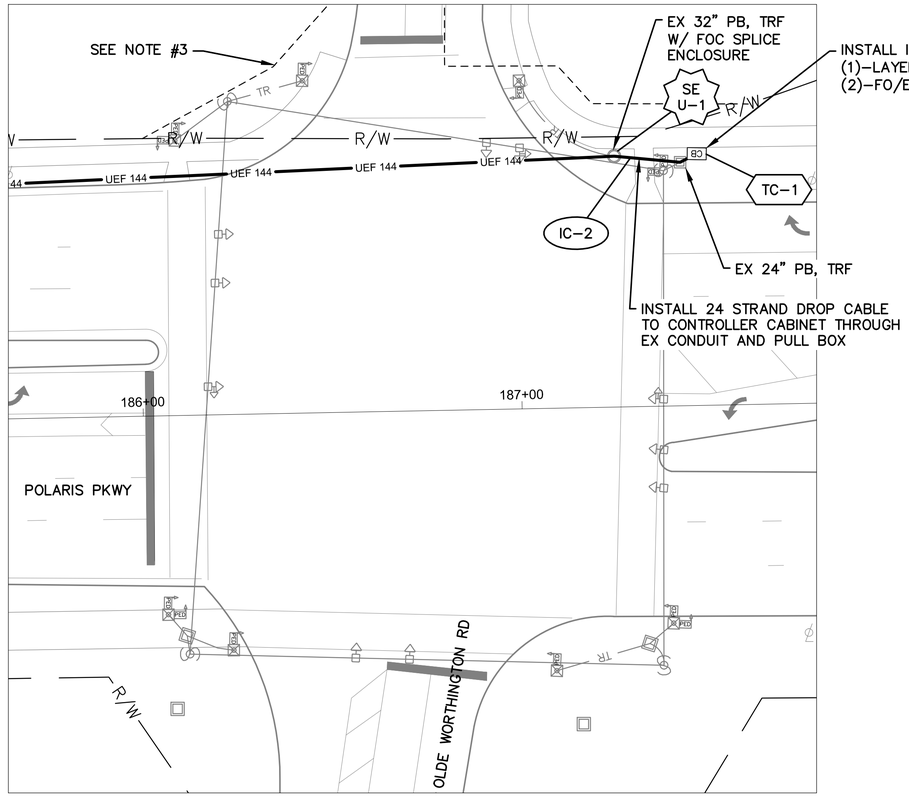
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

400
915

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POLARIS PKWY BETWEEN STATION 182+00 AND 190+00



DETAIL - INT 3308

0 20 40
HORIZONTAL
SCALE IN FEET

NOTES:

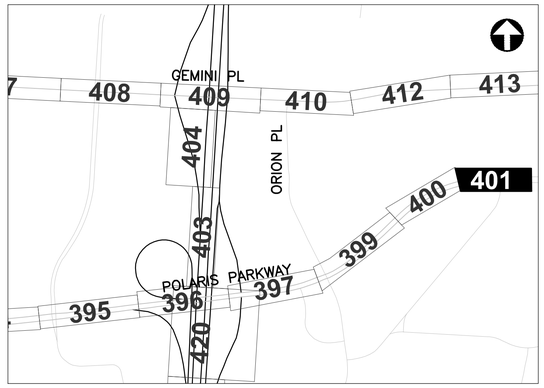
1. SEE SHEET 402 FOR QUANTITIES.
2. SEE SHEETS 618 & 710 FOR COMMUNICATION DETAILS.
3. EXISTING GENERAL UTILITY EASEMENT AS SHOWN PER INSTRUMENT #20180026080.

(1)

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CITY OF COLUMBUS
UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 313 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

(1) REVISION 1.0
11–02–2018

3378-E

0 40 80
HORIZONTAL
SCALE IN FEET

CIP: 540007–100012
PID NUMBER: 99733

INTERCONNECT PLAN
POLARIS PKWY BETWEEN STA. 182+00 AND 190+00, INT 3308

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

401
915

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ESTIMATED QUANTITIES

SHEET NO.	REFERENCE NO.	LOCATION	STATION		202	625	625	625	625	625	625	625	632	632	632	632	632	632	632	633	633			
					EXISTING CONDUIT CLEANED, AS PER PLAN	CONDUIT, 2", AS PER PLAN	CONDUIT, 3", AS PER PLAN	DISTRIBUTION CABLE, NO. 1	GROUND ROD	POWER SERVICE, TYPE B, AS PER PLAN	PULL BOX, 18", 725.08, AS PER PLAN	TRENCH, 36" DEEP, AS PER PLAN	INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 144 STRAND	INTERCONNECT CABLE, MISC.: FIBER OPTIC DROP CABLE, 24 STRAND	INTERCONNECT CABLE, MISC.: FIBER OPTIC FUSION SPLICE	INTERCONNECT CABLE, MISC.: TERMINATION PANEL, 24 FIBER	INTERCONNECT, MISC.: SPLICE ENCLOSURE, CLAMSHELL, 288 SPLICE	SIGNALIZATION, MISC.: CCTV COMPOSITE CABLE	SIGNALIZATION, MISC.: CCTV IP-CAMERA SYSTEM	CONTROLLER ITEM, MISC.: FIBER OPTIC ETHERNET TRANSCEIVER, SHORT RANGE	CONTROLLER ITEM, MISC.: LAYER 2 ETHERNET SWITCH			
			FROM	TO	FT	FT	FT	FT	EACH	EACH	EACH	FT	FT	FT	EACH	EACH	EACH	FT	EACH	EACH	EACH			
POLARIS PKWY. BETWEEN STA. 163+00 AND 174+00, INT 3224																								
399	IC-1	POLARIS PKWY	163+00, 80' RT	163+49, 83' RT	49								49											
399	EC-1	POLARIS PKWY	163+00, 93' RT	163+28, 95' RT			28	84			1	28												
399	EC-2	POLARIS PKWY	163+28, 95' RT	163+38, 92' RT		10		30				10												
399	EC-3	POLARIS PKWY	163+38, 92' RT					30	1	1														
399	TC-1	POLARIS PKWY	163+48, 95' RT											10		1		20		2	1			
399	IC-4	POLARIS PKWY	163+48, 95' RT	163+49, 83' RT	12									12										
399	EC-5	POLARIS PKWY	163+48, 95' RT	164+61, 65' RT														258						
399	IC-2	POLARIS PKWY	163+49, 83' RT	174+00, 64' LT	1,187								1,187											
399	SE U-1	POLARIS PKWY	163+49, 83' RT										150	125	24		1							
399	EC-4	POLARIS PKWY	164+61, 65' RT	164+78, 54' RT	21													42						
399	CTV-1	POLARIS PKWY	164+78, 54' RT															35	1					
399	IC-3	POLARIS PKWY	172+22, 62' LT										100											
POLARIS PKWY. BETWEEN STA. 174+00 AND 182+00, INT 3277																								
400	IC-1	POLARIS PKWY	174+00, 64' LT	177+06, 78' LT	322								322											
400	TC-1	POLARIS PKWY	177+00, 86' LT											10		1				2	1			
400	IC-3	POLARIS PKWY	177+00, 86' LT	177+06, 78' LT	10									10										
400	SE U-1	POLARIS PKWY	177+06, 78' LT										150	125	24		1							
400	IC-2	POLARIS PKWY	177+06, 78' LT	182+00, 61' LT	516								516											
POLARIS PKWY. BETWEEN STA. 182+00 AND 190+00, INT 3308																								
401	IC-1	POLARIS PKWY	182+00, 61' LT	187+25, 66' LT	538								538											
401	SE U-1	POLARIS PKWY	187+25, 66' LT										75	125	12		1							
401	IC-2	POLARIS PKWY	187+25, 66' LT	187+47, 66' LT	22									22										
401	TC-1	POLARIS PKWY	187+47, 66' LT											10		1				2	1			
SHEET TOTAL					2,677	10	28	144	1	1	1	38	3,087	449	60	3	3	355	1	6	3	-	-	-

AERIAL SAG: 1.5% AERIAL SAG IS INCLUDED IN THE QUANTITIES FOR ANY AERIAL FIBER OR CABLE ITEMS.

3378-E

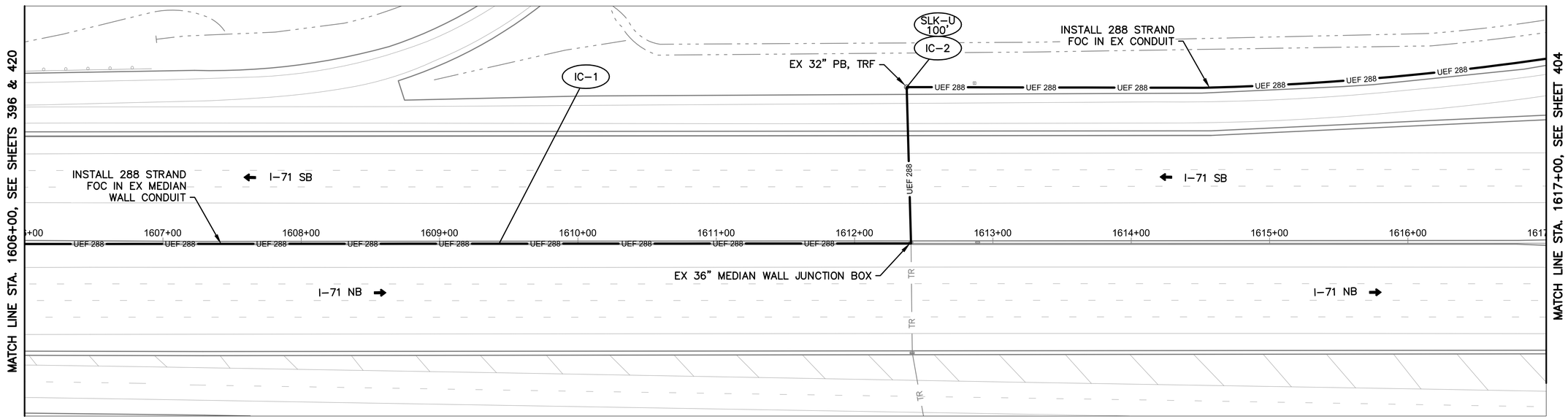
CIP: 540007–100012
PID NUMBER: 99733

POLARIS PARKWAY BETWEEN STA. 163+00 & 190+00
INTS 3224, 3277, 3308

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

402
915

J:\Jobs\63721 CTSS Phase E\TECHPROD\Sheets\CTSS_PhE_Trunk3_POLARIS_PY_IC_QUANTITIES.dwg – POLARIS PARKWAY_Q3 layout ~ last saved by: gburch 09/05/2018 02:33pm ~ printed 09/18/2018 10:14am PSLTS: 1 LTS: 1 CAS: 1:1



I-71 BETWEEN STATION 1606+00 AND 1617+00

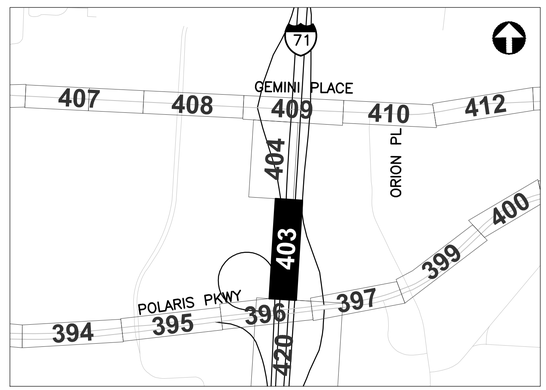
NOTES:

1. SEE SHEET 405 FOR QUANTITIES.
2. SEE SHEET 618 FOR COMMUNICATION DETAILS.
3. LIMITED ACCESS RIGHT OF WAY IS LOCATED OUTSIDE OF THE EXTENT OF VIEW SHOWN ABOVE.

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CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 313 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

3378-E

HORIZONTAL SCALE IN FEET
0 40 80

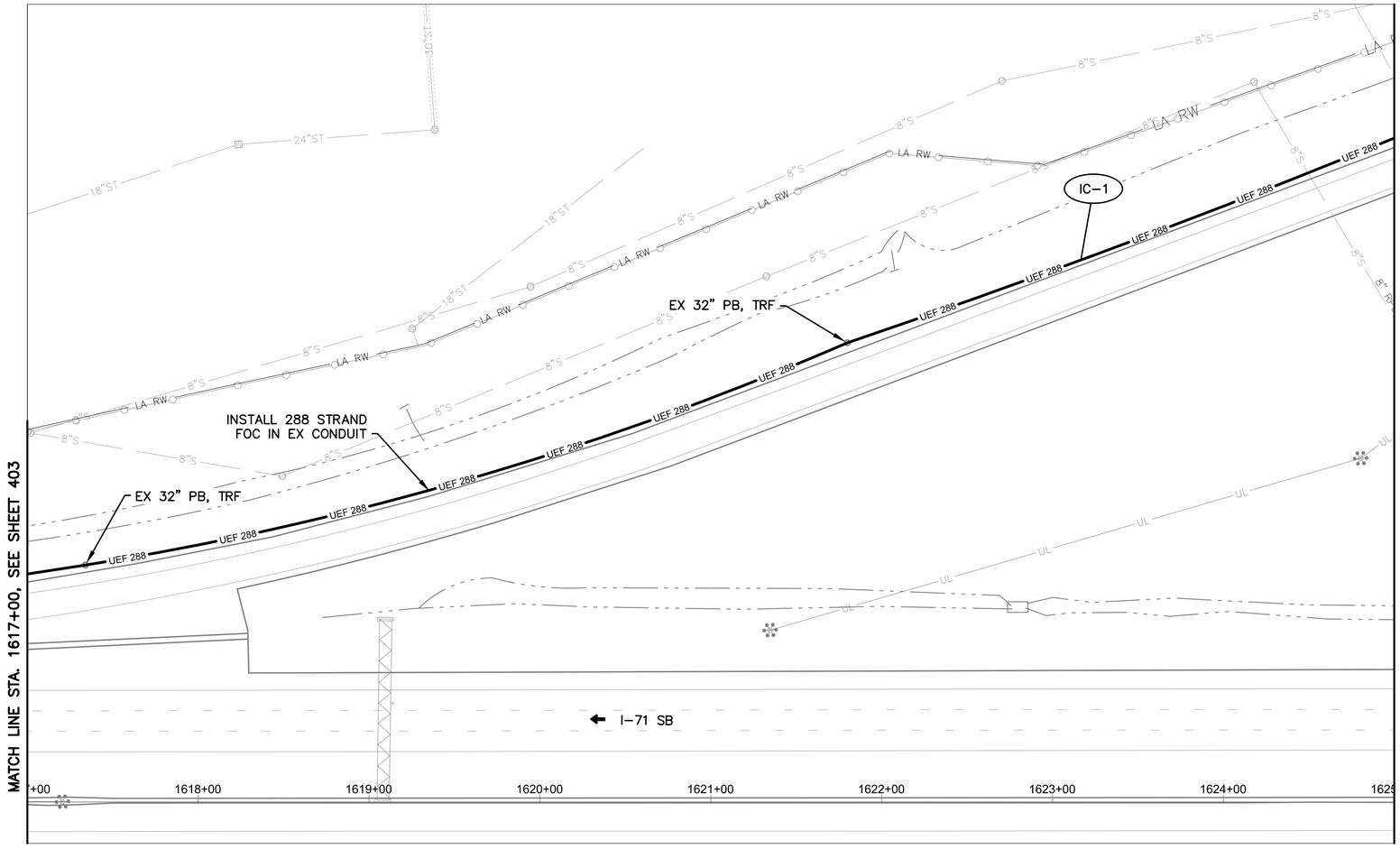
CIP: 540007–100012
PID NUMBER: 99733

INTERCONNECT PLAN
I–71 BETWEEN STA. 1606+00 AND 1617+00

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

403
915

J:\Jobs\63721 ctss phase e\TECHPROD\Sheets\CTSS_PhE_Trunk3_POLARIS\J-71_INTERCONNECT.dwg – POLARIS I-71-1 layout ~ last saved by gburch 09/05/2018 10:13am ~ printed 09/12/2018 01:13pm PSLTS: 1 LTS: 1 CAS: 1:1



I-71 BETWEEN STATION 1617+00 AND 1625+00

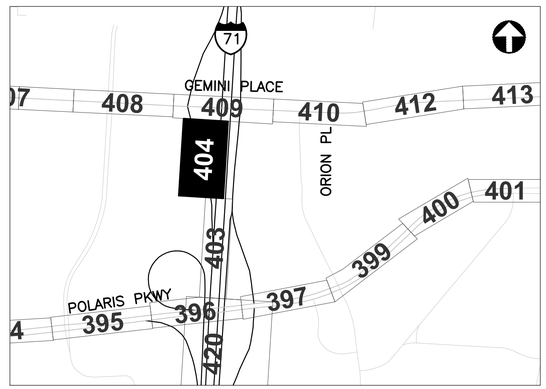
NOTES:

1. SEE SHEET 405 FOR QUANTITIES.
2. SEE SHEET 618 FOR COMMUNICATION DETAILS.
3. LIMITED ACCESS RIGHT OF WAY SHOWN OUTSIDE OF THE EXTENT OF VIEW SHOWN ABOVE.

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CITY OF COLUMBUS UTILITY LEGEND

☒	SEWER
☐	WATER
☐	POWER
☒	LIGHTING



REFER TO SHEET 313 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

3378-E

HORIZONTAL SCALE IN FEET
0 40 80

CIP: 540007–100012
PID NUMBER: 99733

INTERCONNECT PLAN
I–71 BETWEEN STA. 1617+00 AND 1625+00

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

404
915

d:\jobs\63721 ctss phase e\TECHPROD\Sheets\CTSS_PhE_Trunk3_POLARIS_I-71_INTERCONNECT.dwg – POLARIS I-71-2 layout ~ last saved by: gburch 09/05/2018 10:13am ~ printed 09/12/2018 01:15pm PSLTS: 1 LTS: 1 CAS: 1:1

ESTIMATED QUANTITIES

SHEET NO.	REFERENCE NO.	LOCATION	STATION FROM	STATION TO	202 EXISTING CONDUIT CLEANED, AS PER PLAN	632 INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 288 STRAND
			FT		FT	FT
I-71 BETWEEN STA. 1606+00 AND 1617+00						
403	IC-1	I-71	1606+00, 1' LT	1617+00, 133' LT	1,217	1,217
403	IC-2	I-71	1612+37, 113' LT			100
I-71 BETWEEN STA. 1617+00 AND 1625+00						
404	IC-1	I-71	1617+00, 133' LT	1625+00, 409' LT	896	896
SHEET TOTAL					2,113	2,213

AERIAL SAG: 1.5% AERIAL SAG IS INCLUDED IN THE QUANTITIES FOR ANY AERIAL FIBER OR CABLE ITEMS.

3378-E

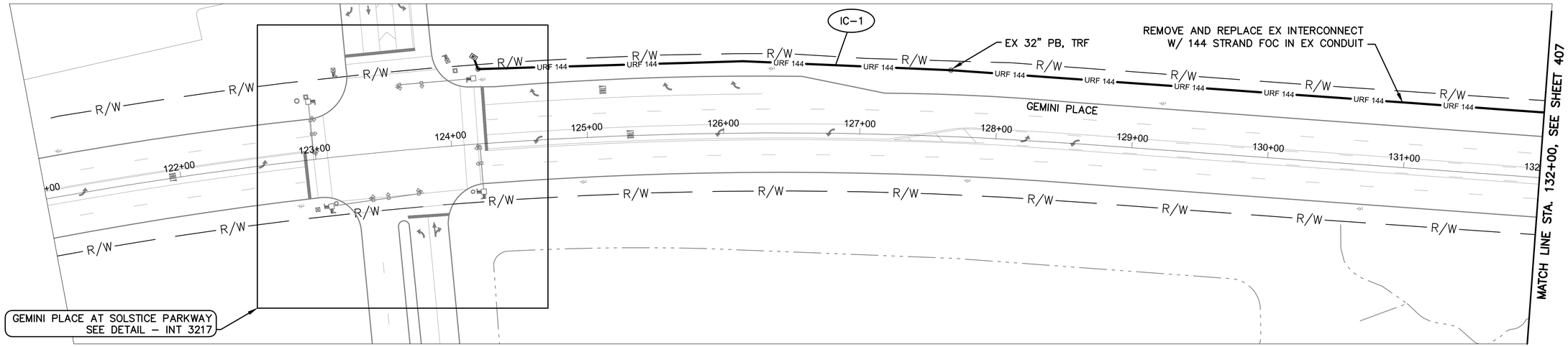
CIP: 540007–100012
PID NUMBER: 99733

I–71 BETWEEN STA. 1606+00 & 1625+50

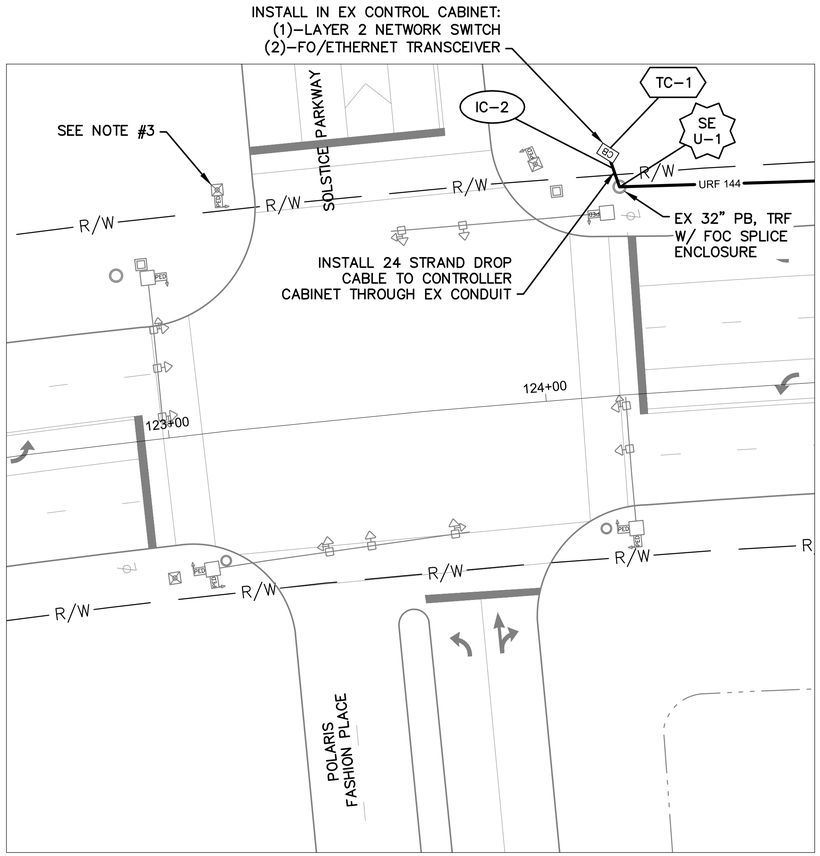
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

405
915

J:\Jobs\63721 CTSS Phase E\TECHPROD\Sheets\CTSS_PhE_Trunk3_I71_IC_QUANTITIES.dwg ~ I-71_Q1 layout ~ last saved by: gburch 10/04/2017 03:54pm ~ printed 09/18/2018 10:15am PSLTS: 1 LTS: 1 CAS: 1:1



GEMINI PLACE BETWEEN STATION 121+00 AND 132+00



DETAIL - INT 3217

0 20 40

HORIZONTAL
SCALE IN FEET

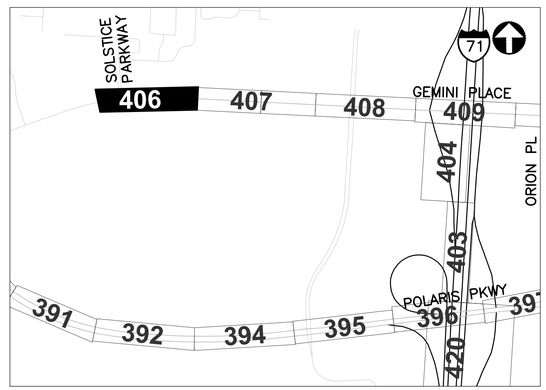
NOTES:

1. SEE SHEET 411 FOR QUANTITIES.
2. SEE SHEETS 618 & 711 FOR COMMUNICATION DETAILS.
3. A TRAFFIC CONTROL DEVICES CONTRACT EXISTS, CONTRACT CT–01284R (SIGNED 03–07–2013), BETWEEN NORTH PARK PLACE, LLC AND CITY OF COLUMBUS THAT PROVIDES A NON–EXCLUSIVE EASEMENT TO THE CITY OF COLUMBUS FOR THE PURPOSE OF INSTALLING AND MAINTAINING TRAFFIC INFRASTRUCTURE.

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CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 313 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

3378-E

0 40 80
HORIZONTAL
SCALE IN FEET

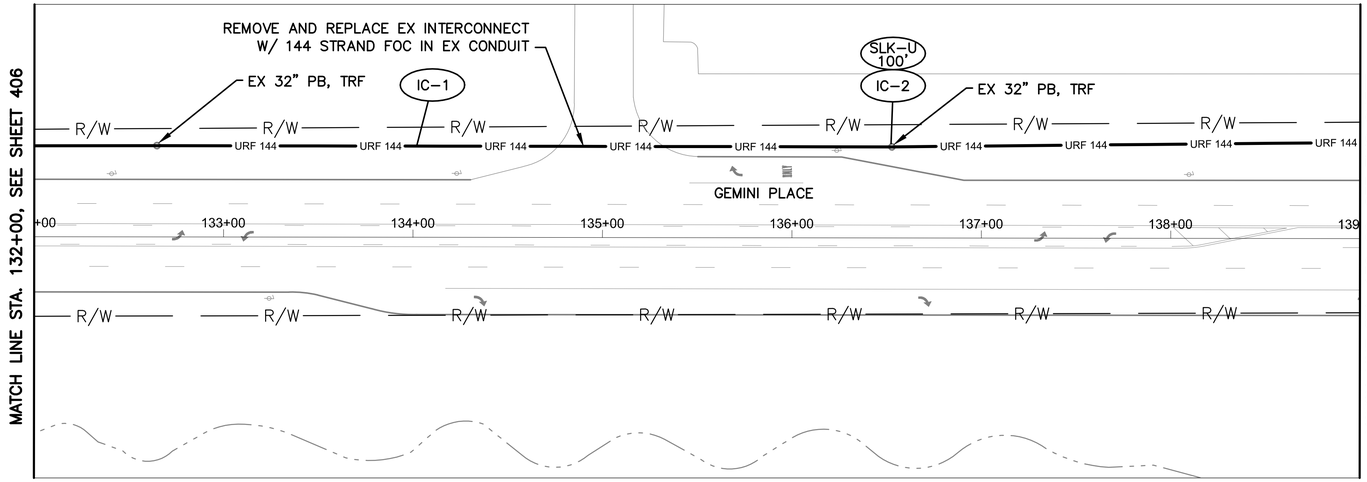
CIP: 540007–100012
PID NUMBER: 99733

INTERCONNECT PLAN
GEMINI PLACE BETWEEN STA. 121+00 AND 132+00, INT 3217

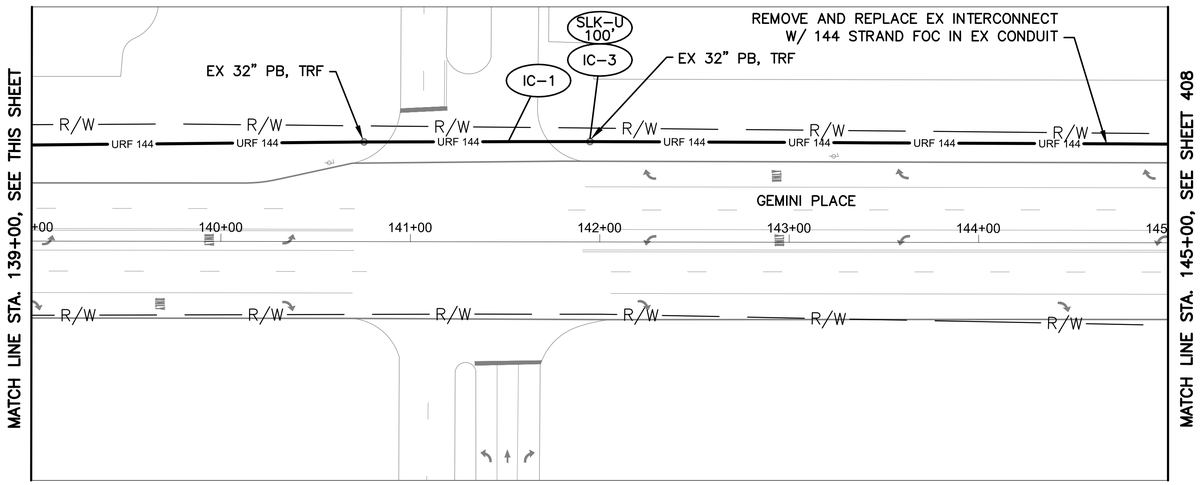
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

406
915

J:\Jobs\63721 ctss phase e\TECHPROD\Sheets\CTSS_PhE_Trunk3_GEMINI_INTERCONNECT.dwg ~ GEMINI–A layout ~ last saved by: gburch 08/29/2018 02:31pm ~ printed 09/12/2018 01:18am PSLTS: 1 LTS: 1 CAS: 1:1



GEMINI PLACE BETWEEN STATION 132+00 AND 139+00



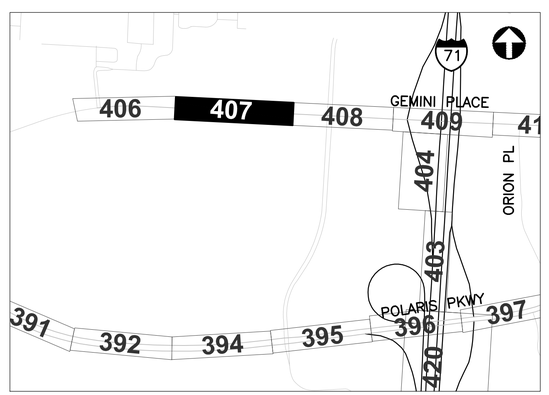
GEMINI PLACE BETWEEN STATION 139+00 AND 145+00

NOTES:

1. SEE SHEET 411 FOR QUANTITIES.
2. SEE SHEET 618 FOR COMMUNICATION DETAILS.

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CITY OF COLUMBUS UTILITY LEGEND
- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 313 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

3378-E

HORIZONTAL SCALE IN FEET
0 40 80

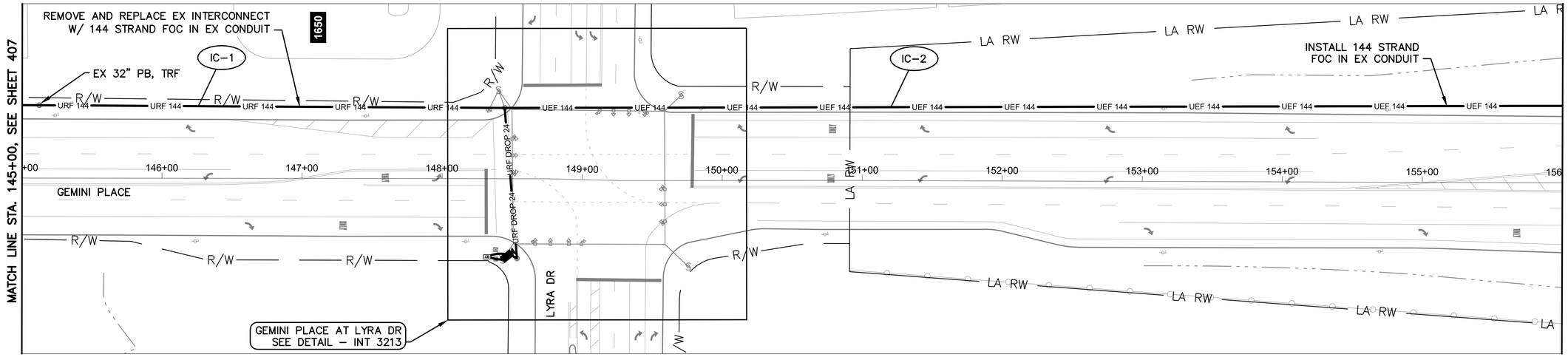
CIP: 540007-100012
PID NUMBER: 99733

INTERCONNECT PLAN
GEMINI PLACE BETWEEN STA. 132+00 AND 145+00

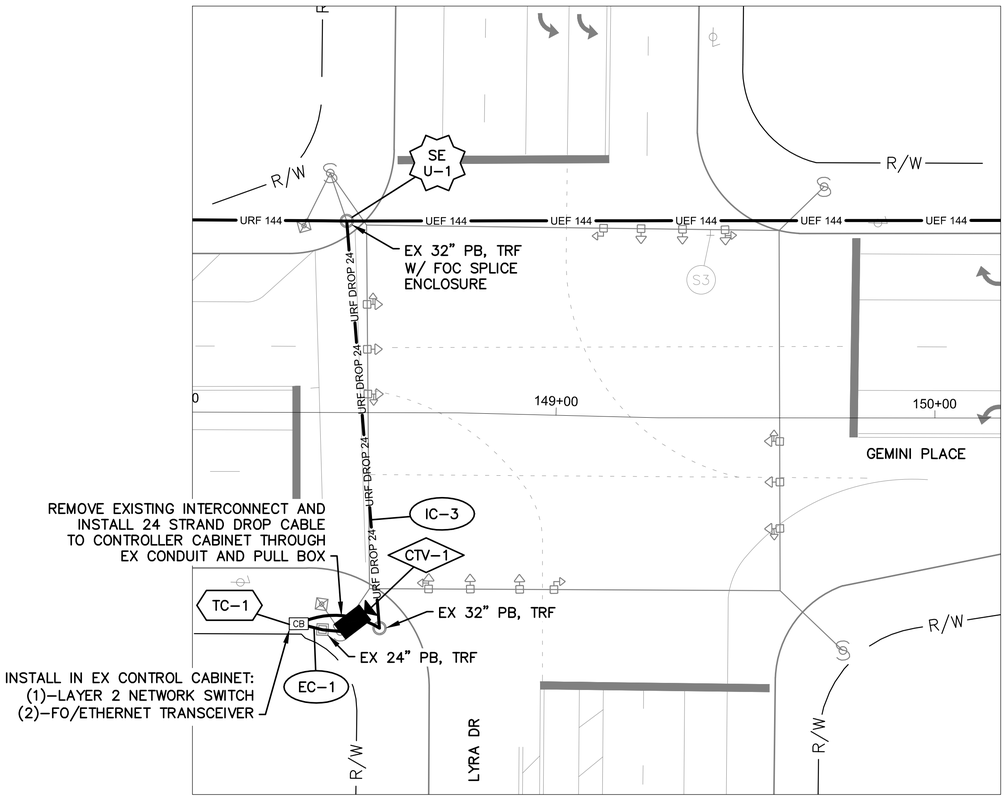
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

407
915

J:\Jobs\63721 ctss phase e\TECHPROD\Sheets\CTSS_PhE_Trunk3_GEMINI_INTERCONNECT.dwg ~ GEMINI-B layout ~ last saved by: gburch 08/29/2018 02:31pm ~ printed 09/20/2018 09:57am PSLTS: 1 LTS: 1 CAS: 1:1



GEMINI PLACE BETWEEN STATION 145+00 AND 156+00



DETAIL - INT 3213

0 20 40
HORIZONTAL SCALE IN FEET

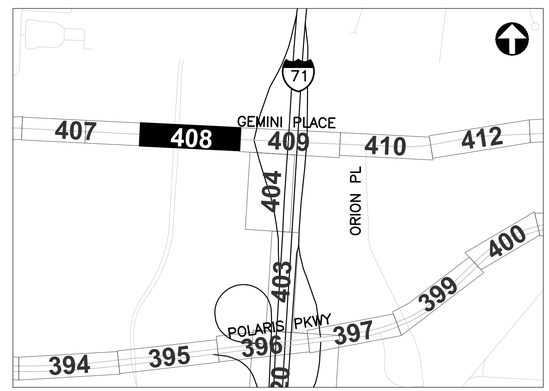
NOTES:

1. SEE SHEET 411 FOR QUANTITIES.
2. SEE SHEETS 618 & 712 FOR COMMUNICATION DETAILS.

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CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 313 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

3378-E

0 40 80
HORIZONTAL SCALE IN FEET

CIP: 540007–100012
PID NUMBER: 99733

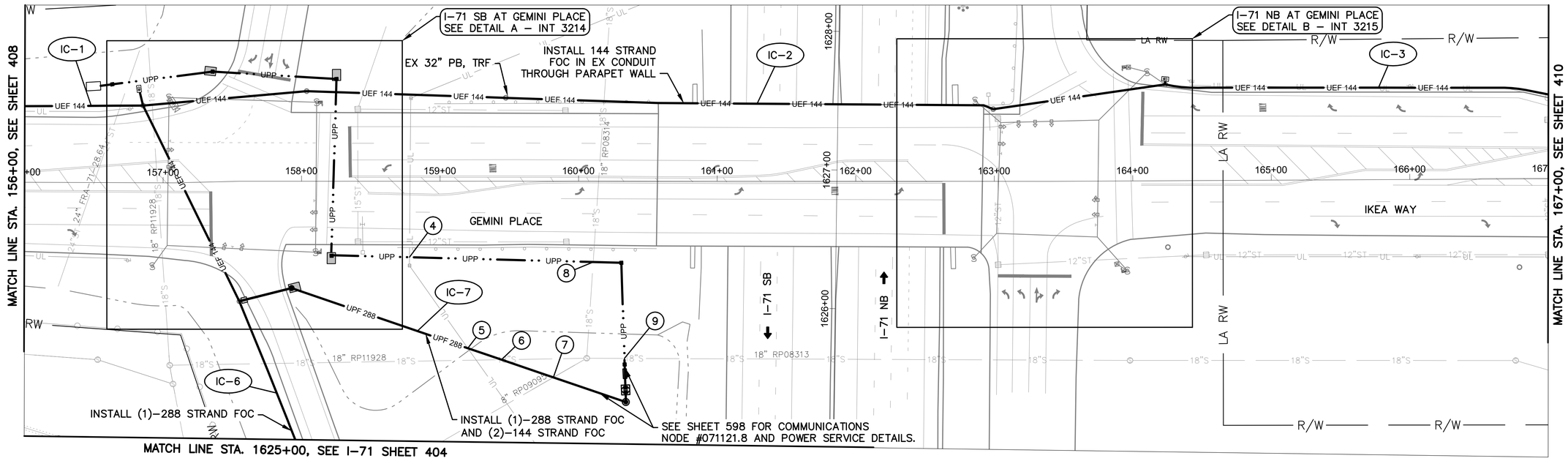
INTERCONNECT PLAN
GEMINI PLACE BETWEEN STA. 145+00 AND 156+00, INT 3213

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

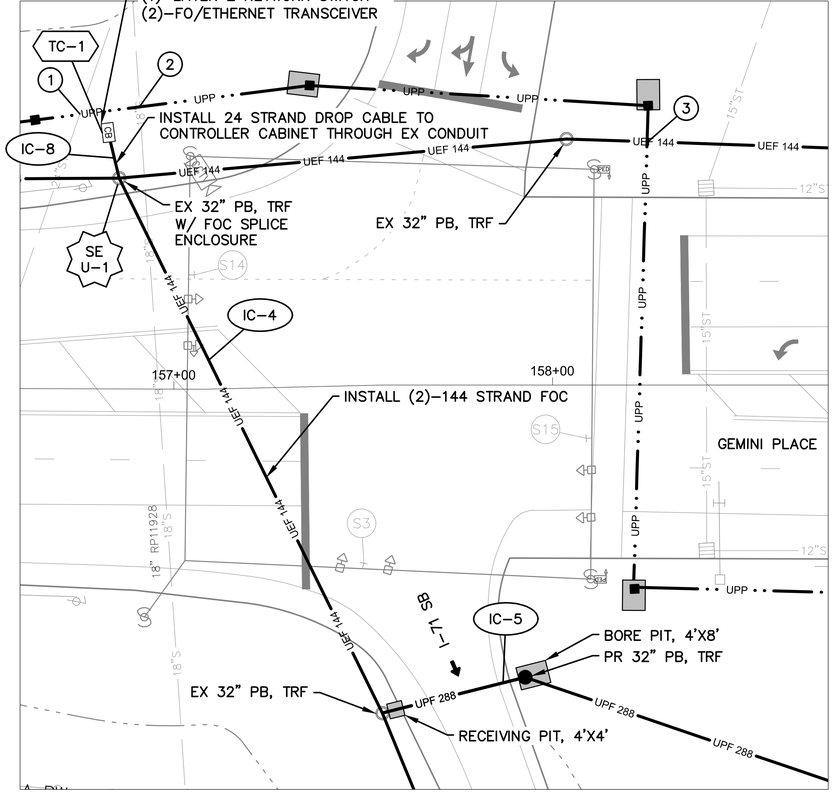
408
915

J:\Jobs\63721 ctss phase e\TECHPROD\Sheets\CTSS_PhE_Trunk3_GEMINI_INTERCONNECT.dwg – GEMINI-1 layout ~ last saved by: gburch 08/29/2018 02:31pm ~ printed 09/12/2018 08:08am PSLTS: 1 LTS: 1 CAS: 1:1

J:\Jobs\63721 ctss phase e\TECHPROD\Sheets\CTSS_PhE_Trunk3_GEMINI_INTERCONNECT.dwg ~ GEMINI-2 layout ~ last saved by: gburch 08/29/2018 02:31pm ~ printed 09/12/2018 01:26pm PSLTS: 1 LTS: 1 CAS: 1:1

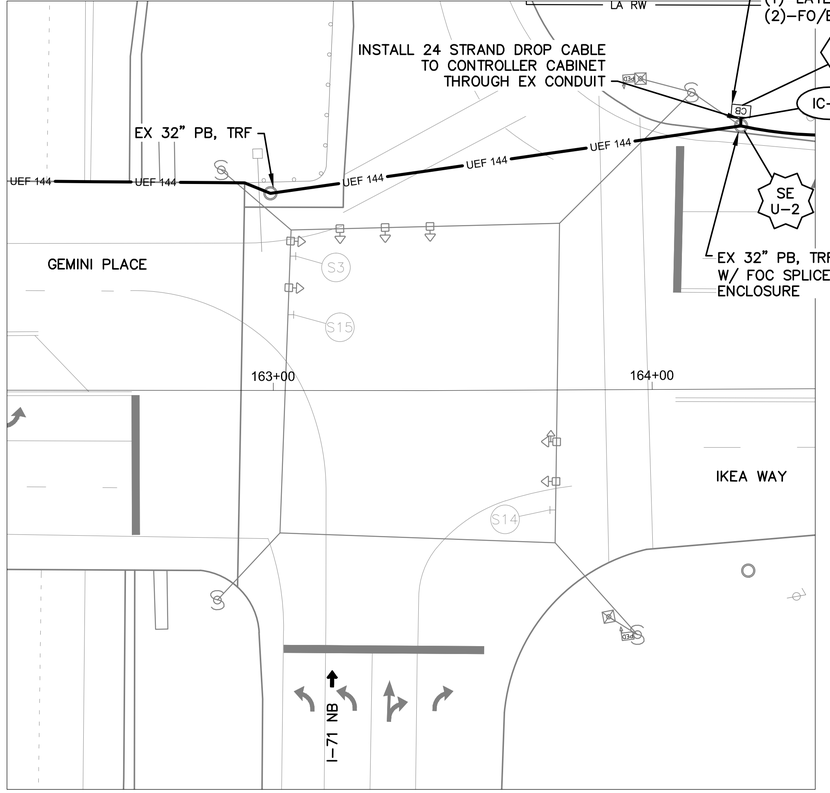


GEMINI PLACE/IKEA WAY BETWEEN STATION 156+00 AND 167+00



DETAIL A - INT 3214

0 20 40
HORIZONTAL SCALE IN FEET



DETAIL B - INT 3215

0 20 40
HORIZONTAL SCALE IN FEET

NOTES:

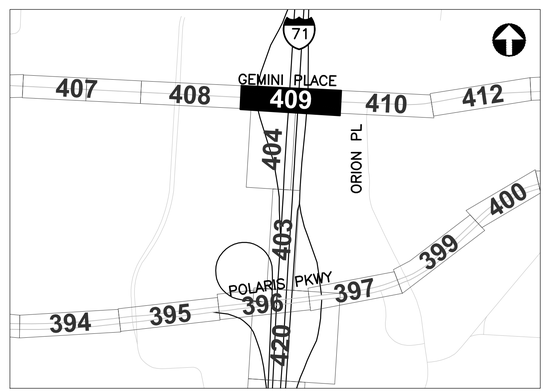
1. SEE SHEET 411 FOR QUANTITIES.
2. SEE SHEETS 618, 713, & 714 FOR COMMUNICATION DETAILS.

(#) EXISTING UTILITY CROSSING. SEE UTILITY CROSSING INFO SHEET 325.

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CITY OF COLUMBUS UTILITY LEGEND

- [x] SEWER
- [ ] WATER
- [ ] POWER
- [ ] LIGHTING



REFER TO SHEET 313 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

3378-E

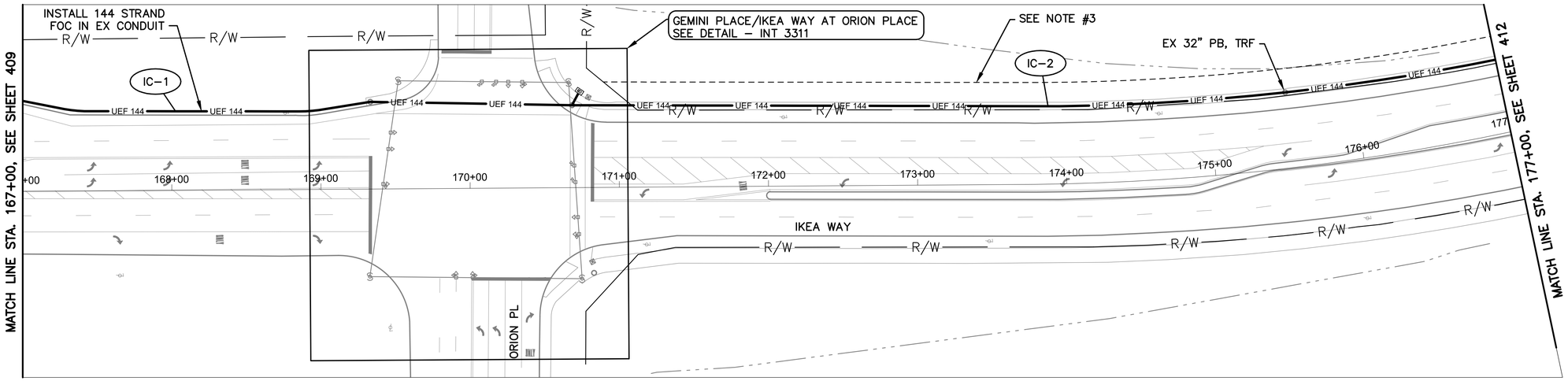
HORIZONTAL SCALE IN FEET
0 40 80

CIP: 540007–100012
PID NUMBER: 99733

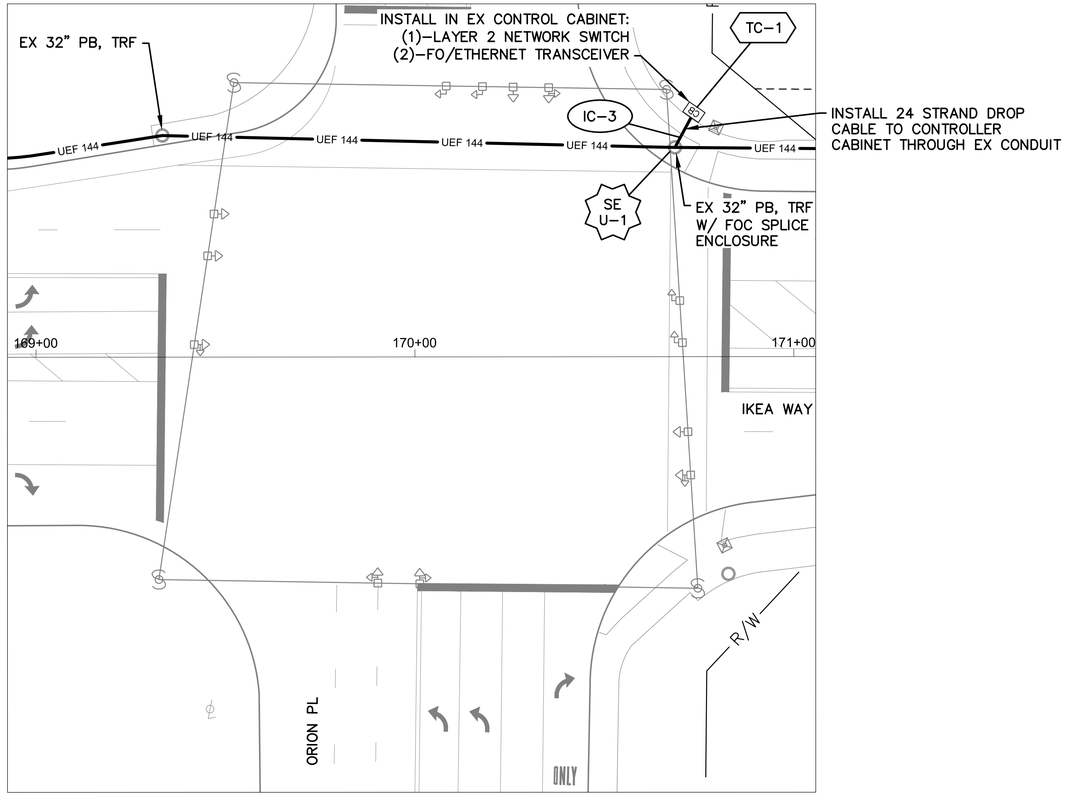
INTERCONNECT PLAN GEMINI PLACE/IKEA WAY
BETWEEN STA. 156+00 AND 167+00, INTS 3214 AND 3215

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

409
915



IKEA WAY BETWEEN STATION 167+00 AND 177+00



DETAIL - INT 3311

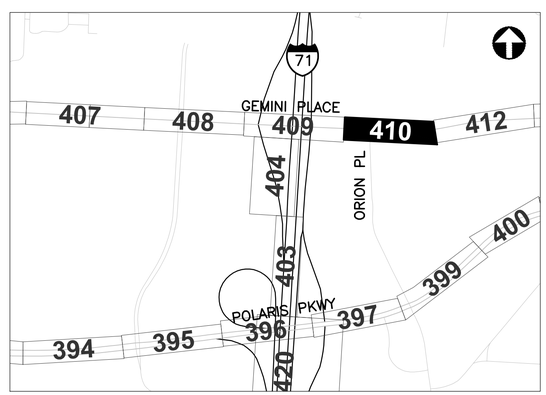
0 20 40
HORIZONTAL SCALE IN FEET

NOTES:

1. SEE SHEET 411 FOR QUANTITIES.
2. SEE SHEETS 618 & 715 FOR COMMUNICATION DETAILS.
3. PERPETUAL EASEMENT FOR UTILITY PURPOSES FILED UNDER INSTRUMENT #2015–00033144, SEE PARCEL 1–UV1.

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CITY OF COLUMBUS UTILITY LEGEND
- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 313 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

3378-E

0 40 80
HORIZONTAL SCALE IN FEET

CIP: 540007–100012
PID NUMBER: 99733

INTERCONNECT PLAN
IKEA WAY BETWEEN STA. 167+00 AND 177+00, INT 3311

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

410
915

J:\Jobs\63721 ctss phase e\TECHPROD\Sheets\CTSS_PhE_Trunk3_GEMINI_INTERCONNECT.dwg – GEMINI–3 layout ~ last saved by: gburch 08/29/2018 02:31pm ~ printed 09/12/2018 01:28am PSLTS: 1 LTS: 1 CAS: 1:1

ESTIMATED QUANTITIES

SHEET NO.	REFERENCE NO.	LOCATION	STATION		202	625	625	625	625	625	632	632	632	632	632	632	632	633	633				
					EXISTING CONDUIT CLEANED, AS PER PLAN	CONDUIT, CONCRETE ENCASED, 2-3", 725.05, AS PER PLAN	CONDUIT, JACKED OR DRILLED, 3", AS PER PLAN	PULL BOX, CONCRETE 32", AS PER PLAN	PULL BOX, MISC.: REFURBISH CONCRETE PULL BOX	TRENCH, 36" DEEP, AS PER PLAN	INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 144 STRAND	INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 288 STRAND	INTERCONNECT CABLE, MISC.: FIBER OPTIC DROP CABLE, 24 STRAND	INTERCONNECT CABLE, MISC.: FIBER OPTIC FUSION SPLICE	INTERCONNECT CABLE, MISC.: TERMINATION PANEL, 24 FIBER	INTERCONNECT, MISC.: SPLICE ENCLOSURE, CLAMSHELL, 288 SPLICE	SIGNALIZATION, MISC.: CCTV COMPOSITE CABLE	SIGNALIZATION, MISC.: CCTV IP-CAMERA SYSTEM	CONTROLLER ITEM, MISC.: FIBER OPTIC ETHERNET TRANSCEIVER, SHORT RANGE	CONTROLLER ITEM, MISC.: LAYER 2 ETHERNET SWITCH				
			FROM	TO	FT	FT	FT	EACH	EACH	FT	FT	FT	FT	EACH	EACH	EACH	FT	EACH	EACH	EACH				
GEMINI PLACE BETWEEN STA. 121+00 AND 132+00, INT 3217																							
406	TC-1	GEMINI PL	124+20, 64' LT										10		1				2	1			
406	IC-2	GEMINI PL	124+20, 64' LT	124+23, 55' LT	9								9										
406	SE U-1	GEMINI PL	124+23, 55' LT						1		75		125	12		1							
406	IC-1	GEMINI PL	124+23, 55' LT	132+00, 48' LT	784				1		784												
GEMINI PLACE BETWEEN STA. 132+00 AND 145+00																							
407	IC-1	GEMINI PL	132+00, 48' LT	145+00, 52' LT	1,300				2		1,300												
407	IC-2	GEMINI PL	136+53, 48' LT						1		100												
407	IC-3	GEMINI PL	141+95, 53' LT						1		100												
GEMINI PLACE BETWEEN STA. 145+00 AND 156+00, INT 3213																							
408	IC-1	GEMINI PL	145+00, 52' LT	148+44, 51' LT	345				1		345												
408	IC-3	GEMINI PL	148+32, 57' RT	148+44, 51' LT	130								130										
408	TC-1	GEMINI PL	148+32, 57' RT										10		1		20		2	1			
408	EC-1	GEMINI PL	148+32, 57' RT	148+43, 58' RT	11												22						
408	CTV-1	GEMINI PL	148+43, 58' RT														35	1					
408	SE U-1	GEMINI PL	148+44, 51' LT						1		150		125	24		1							
408	IC-2	GEMINI PL	148+44, 51' LT	156+00, 55' LT	756						756												
GEMINI PLACE BETWEEN STA. 156+00 AND 167+00, INTS 3214 & 3215																							
409	IC-1	GEMINI PL	156+00, 55' LT	156+85, 56' LT	85						85												
409	TC-1	GEMINI PL	156+82, 68' LT										10		1				2	1			
409	IC-8	GEMINI PL	156+82, 68' LT	156+85, 56' LT	12								12										
409	SE U-1	GEMINI PL	156+85, 56' LT						1		150		125	24		1							
409	IC-2	GEMINI PL	156+85, 56' LT	164+23, 69' LT	740				2		740												
409	IC-4	GEMINI PL	156+85, 56' LT	157+53, 87' RT	157						314												
409	IC-6	GEMINI PL	157+53, 87' RT	157+95, 186' RT	213							213											
409	IC-5	GEMINI PL	157+53, 87' RT	157+92, 77' RT			78	1			78	39											
409	IC-7	GEMINI PL	157+92, 77' RT	160+34, 159' RT		255				255	510	255											
409	SE U-2	GEMINI PL	164+23, 69' LT								150		125	24		1							
409	IC-9	GEMINI PL	164+23, 69' LT	164+23, 73' LT	4								4										
409	IC-3	GEMINI PL	164+23, 69' LT	167+00, 61' LT	277						277												
409	TC-2	GEMINI PL	164+23, 73' LT										10		1				2	1			
GEMINI PLACE/IKEA WAY BETWEEN STA. 167+00 AND 177+00, INT 3311																							
410	IC-1	GEMINI PL	167+00, 61' LT	170+68, 55' LT	369						369												
410	SE U-1	GEMINI PL	170+68, 55' LT								150		125	24		1							
410	IC-3	GEMINI PL	170+68, 55' LT	170+73, 65' LT	11								11										
410	IC-2	GEMINI PL	170+68, 55' LT	177+00, 49' LT	621						621												
410	TC-1	GEMINI PL	170+73, 65' LT										10		1				2	1			
SHEET TOTAL					5,824	255	78	1	11	255	7,054	507	841	108	5	5	77	1	10	5	-	-	-	-

AERIAL SAG: 1.5% AERIAL SAG IS INCLUDED IN THE QUANTITIES FOR ANY AERIAL FIBER OR CABLE ITEMS.

3378-E

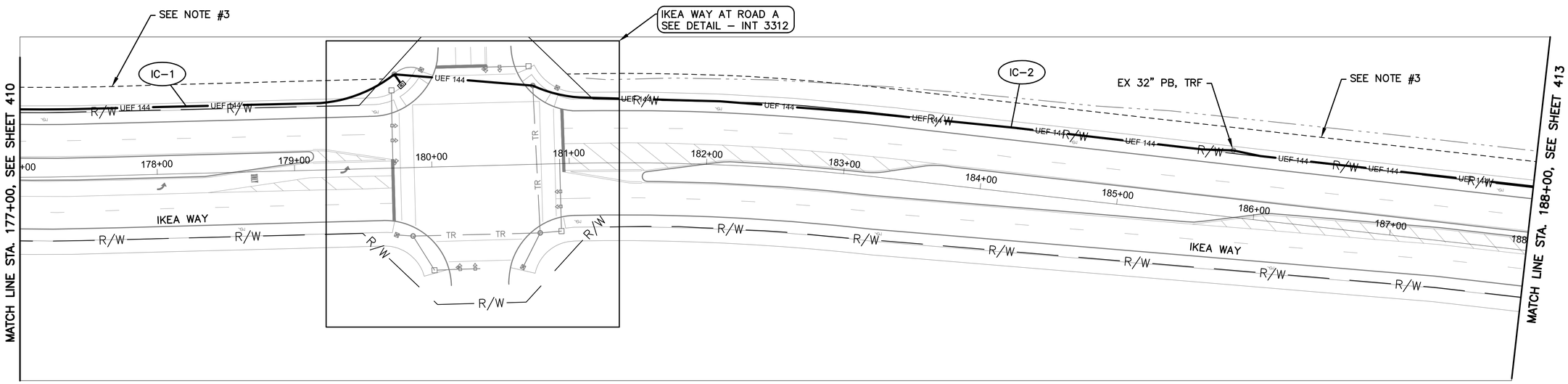
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PID NUMBER: 99733

GEMINI PL. BETWEEN STA. 121+00 & 177+00
INTS 3217, 3213, 3214, 3215, 3311

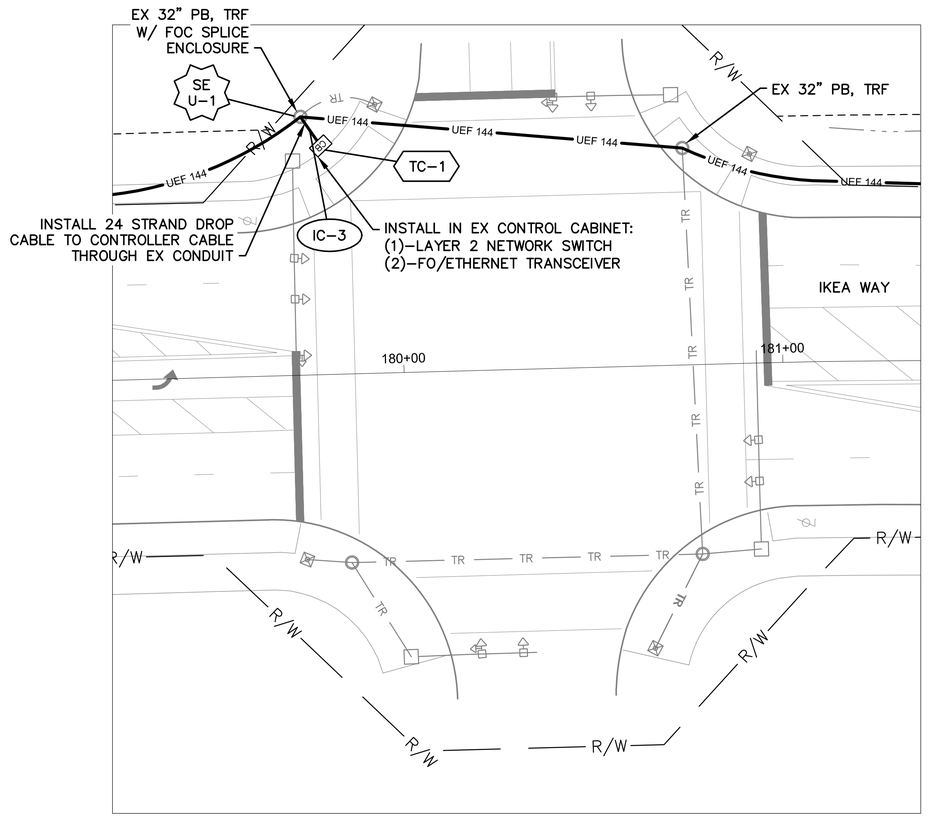
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

411
915

J:\Jobs\63721 CTSS Phase E\TECHPROD\Sheets\CTSS_PhE_Trunk3_GEMINI_JC_QUANTITIES.dwg ~ GEMINI PL_01 layout ~ last saved by: gburch 09/11/2018 09:45am ~ printed 09/18/2018 10:16am PSLTS: 1 LTS: 1 CAS: 1:1



IKEA WAY BETWEEN STATION 177+00 AND 188+00



DETAIL - INT 3312

0 20 40

HORIZONTAL
SCALE IN FEET

NOTES:

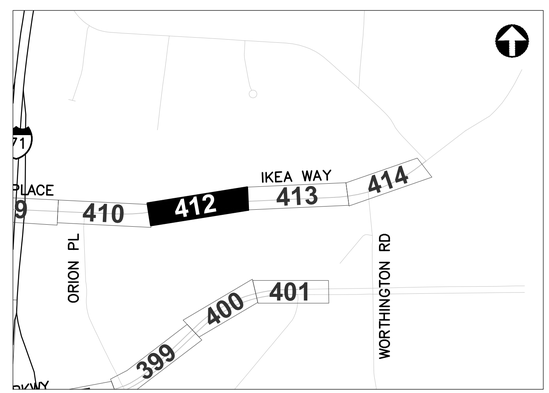
1. SEE SHEET 415 FOR QUANTITIES.
2. SEE SHEETS 618 & 716 FOR COMMUNICATION DETAILS.
3. PERPETUAL EASEMENT FOR UTILITY PURPOSES FILED UNDER INSTRUMENT #2015–00033144, SEE PARCELS 1–UV1 AND 1–UV3.

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CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 313 FOR
INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

3378-E

0 40 80

HORIZONTAL
SCALE IN FEET

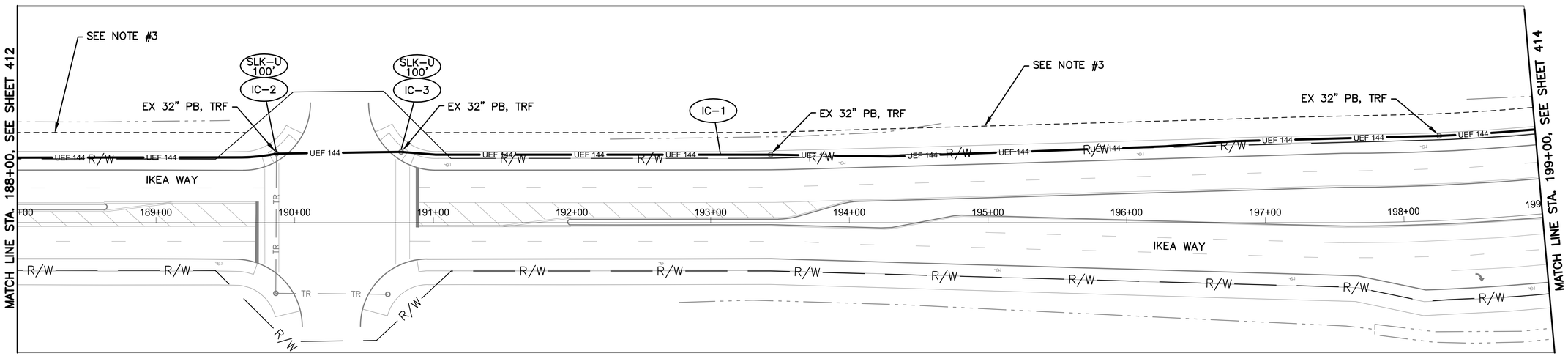
CIP: 540007–100012
PID NUMBER: 99733

INTERCONNECT PLAN
IKEA WAY BETWEEN STA. 177+00 AND 188+00, INT 3312

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

412
915

J:\Jobs\63721 ctss phase e\TECHPROD\Sheets\CTSS_PhE_Trunk3_GEMINI_INTERCONNECT.dwg – IKEA–1 layout ~ last saved by: gburch 08/29/2018 02:31pm ~ printed 09/12/2018 01:30pm PSLTS: 1 LTS: 1 CAS: 1:1



IKEA WAY BETWEEN STATION 188+00 AND 199+00

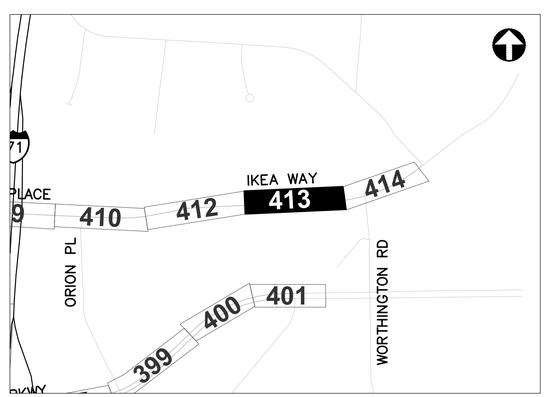
NOTES:

1. SEE SHEET 415 FOR QUANTITIES.
2. SEE SHEET 618 FOR COMMUNICATION DETAILS.
3. PERPETUAL EASEMENT FOR UTILITY PURPOSES FILED UNDER INSTRUMENT #2015-00033144, SEE PARCELS 1-UV3 AND 1-UV5.

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CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 313 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

3378-E

HORIZONTAL SCALE IN FEET
0 40 80

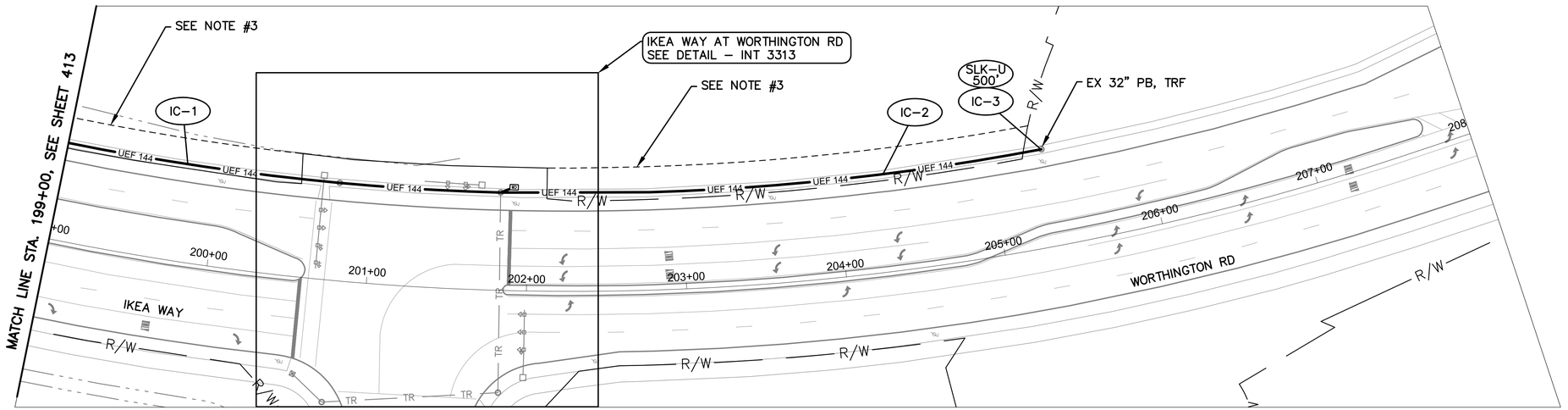
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PID NUMBER: 99733

INTERCONNECT PLAN
IKEA WAY BETWEEN STA. 188+00 AND 199+00

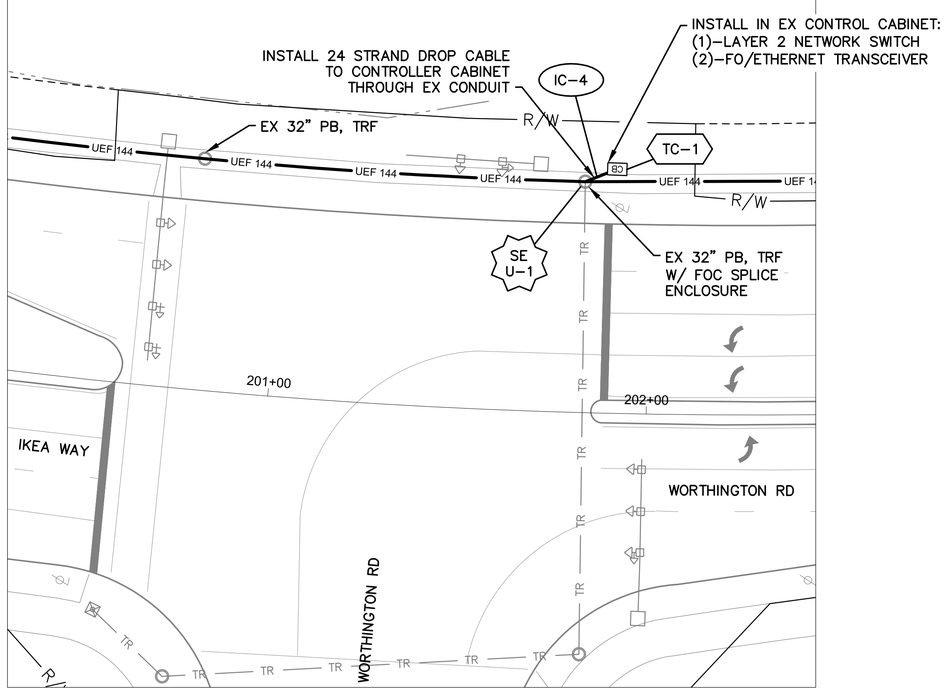
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E - FINAL SUBMITTAL

413
915

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IKEA WAY/WORTHINGTON RD BETWEEN STATION 199+00 AND 208+00



DETAIL - INT 3313

0 20 40

HORIZONTAL
SCALE IN FEET

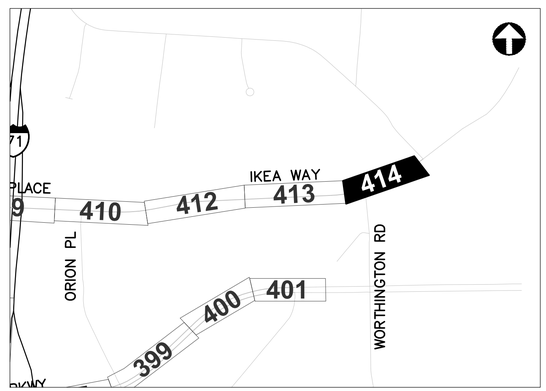
NOTES:

1. SEE SHEET 415 FOR QUANTITIES.
2. SEE SHEETS 618 & 717 FOR COMMUNICATION DETAILS.
3. PERPETUAL EASEMENT FOR UTILITY PURPOSES FILED UNDER INSTRUMENT #2015–00033144, SEE PARCELS 1–UV5 AND 1–UV7.

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CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 313 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

3378-E

0 40 80
HORIZONTAL
SCALE IN FEET

CIP: 540007–100012
PID NUMBER: 99733

INTERCONNECT PLAN
IKEA WAY/WORTHINGTON RD BETWEEN STA. 199+00 AND 208+00, INT 3313

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

414
915

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ESTIMATED QUANTITIES

SHEET NO.	REFERENCE NO.	LOCATION	STATION		202	632	632	632	632	632	633	633												
					EXISTING CONDUIT CLEANED, AS PER PLAN	INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 144 STRAND	INTERCONNECT CABLE, MISC.: FIBER OPTIC DROP CABLE, 24 STRAND	INTERCONNECT CABLE, MISC.: FIBER OPTIC FUSION SPLICE	INTERCONNECT CABLE, MISC.: TERMINATION PANEL, 24 FIBER	INTERCONNECT, MISC.: SPLICE ENCLOSURE, CLAMSHELL, 288 SPLICE	CONTROLLER ITEM, MISC.: FIBER OPTIC ETHERNET TRANSCEIVER, SHORT RANGE	CONTROLLER ITEM, MISC.: LAYER 2 ETHERNET SWITCH											
			FROM	TO	FT	FT	FT	EACH	EACH	EACH	EACH	EACH												
IKEA WAY BETWEEN STA. 177+00 AND 188+00, INT 3312																								
412	IC-1	IKEA WAY	177+00, 49' LT	179+74, 68' LT	277	277																		
412	SE U-1	IKEA WAY	179+74, 68' LT			150	125	24		1														
412	IC-3	IKEA WAY	179+74, 68' LT	179+79, 60' LT	9		9																	
412	IC-2	IKEA WAY	179+74, 68' LT	188+00, 47' LT	835	835																		
412	TC-1	IKEA WAY	179+79, 60' LT				10		1		2	1												
IKEA WAY BETWEEN STA. 188+00 AND 199+00																								
413	IC-1	IKEA WAY	188+00, 47' LT	199+00, 61' LT	1,095	1,095																		
413	IC-2	IKEA WAY	189+87, 50' LT			100																		
413	IC-3	IKEA WAY	190+77, 51' LT			100																		
IKEA WAY BETWEEN STA. 199+00 AND 208+00, INT 3313																								
414	IC-1	IKEA WAY	199+00, 61' LT	201+82, 61' LT	282	282																		
414	SE U-1	IKEA WAY	201+82, 61' LT			150	125	24		1														
414	IC-4	IKEA WAY	201+82, 61' LT	201+90, 64' LT	9		9																	
414	IC-2	IKEA WAY	201+82, 61' LT	205+34, 61' LT	339	339																		
414	TC-1	IKEA WAY	201+90, 64' LT				10		1		2	1												
414	IC-3	IKEA WAY	205+34, 61' LT			500																		
SHEET TOTAL					2,846	3,828	288	48	2	2	4	2	-	-	-	-	-	-	-	-	-	-	-	-

AERIAL SAG: 1.5% AERIAL SAG IS INCLUDED IN THE QUANTITIES FOR ANY AERIAL FIBER OR CABLE ITEMS.

3378-E

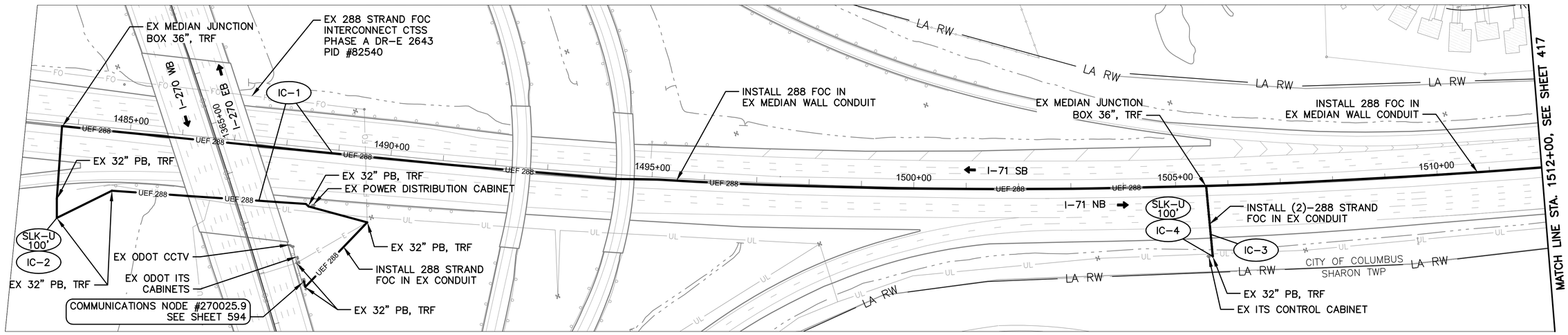
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PID NUMBER: 99733

INTERCONNECT PLAN IKEA WAY BTWN 177+00 & 208+00
INTS 3312, 3313

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

415
915

j:\Jobs\63721 CTSS Phase E\TECHPROD\Sheets\CTSS_PhE_Trunk3_GEMINI_IC_QUANTITIES.dwg – IKEA WAY_Q1 layout ~ last saved by: gburch 09/11/2018 09:45am ~ printed 09/18/2018 10:17am PSITS: 1 LTS: 1 CAS: 1:1



I-71 BETWEEN STATION 1483+00 AND 1512+00

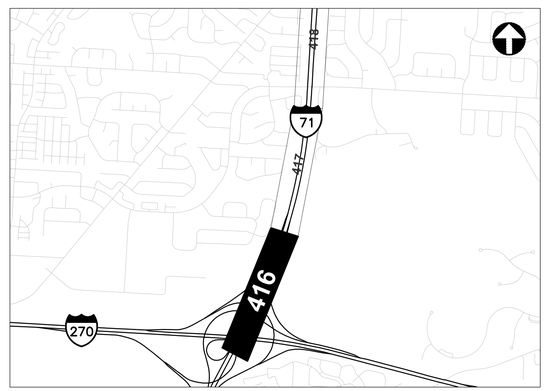
NOTES:

1. SEE SHEET 421 FOR QUANTITIES.
2. SEE SHEET 616 FOR COMMUNICATION DETAILS.

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CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 313 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

3378-E

HORIZONTAL SCALE IN FEET
0 100 200

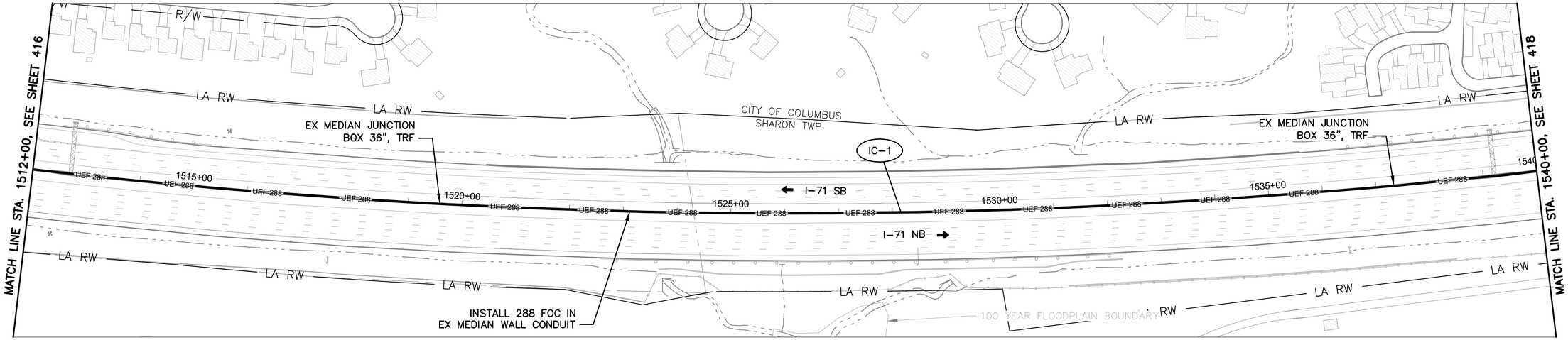
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PID NUMBER: 99733

INTERCONNECT PLAN
I-71 BETWEEN STA. 1483+00 AND 1512+00

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

416
915

J:\Jobs\63721 ctss phase e\TECHPROD\Sheets\CTSS_PhE_Trunk3_J-71_INTERCONNECT.dwg – I-71-1 layout ~ last saved by: gburch 09/05/2018 05:38pm ~ printed 09/12/2018 01:37am PSLTS: 1 LTS: 1 CAS: 1:1



I-71 BETWEEN STATION 1512+00 AND 1540+00

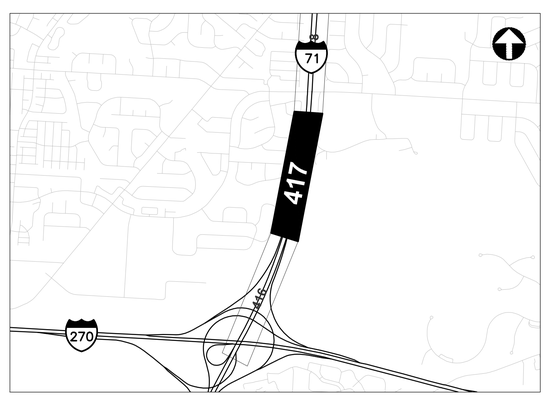
NOTES:

1. SEE SHEET 421 FOR QUANTITIES.
2. SEE SHEET 616 FOR COMMUNICATION DETAILS.

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CITY OF COLUMBUS
UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 313 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

3378-E

HORIZONTAL SCALE IN FEET
0 100 200

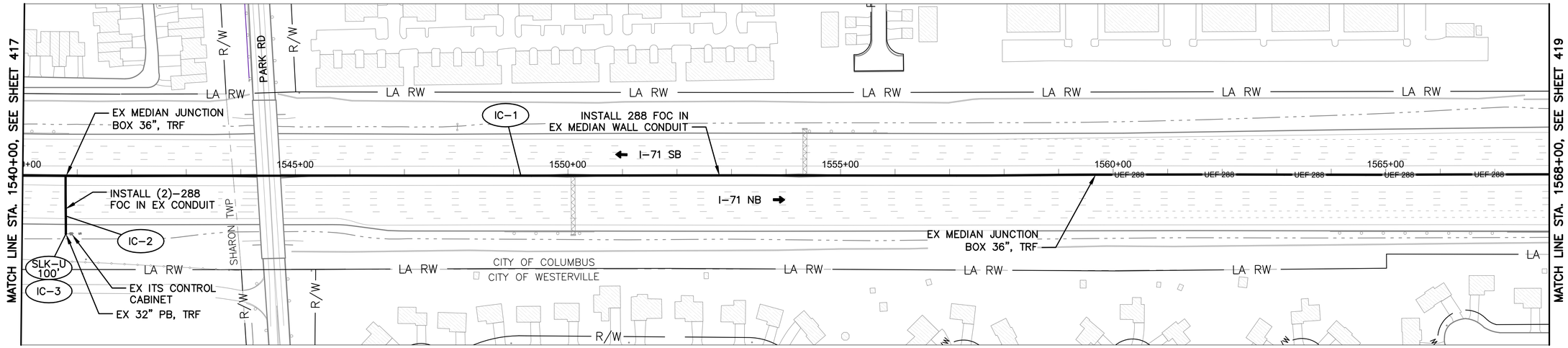
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PID NUMBER: 99733

INTERCONNECT PLAN
I-71 BETWEEN STA. 1512+00 AND 1540+00

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E - FINAL SUBMITTAL

417
915

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I-71 BETWEEN STATION 1540+00 AND 1568+00

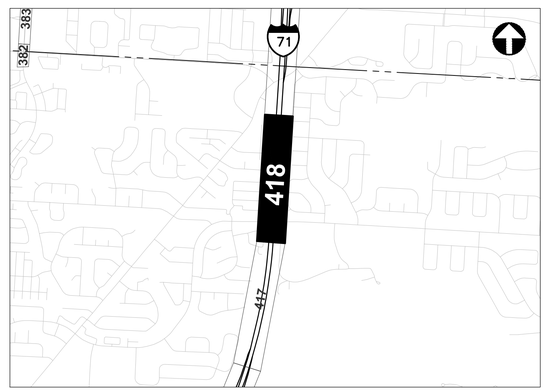
NOTES:

1. SEE SHEET 421 FOR QUANTITIES.
2. SEE SHEET 616 FOR COMMUNICATION DETAILS.

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CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 313 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

HORIZONTAL SCALE IN FEET
0 100 200

CIP: 540007-100012
PID NUMBER: 99733

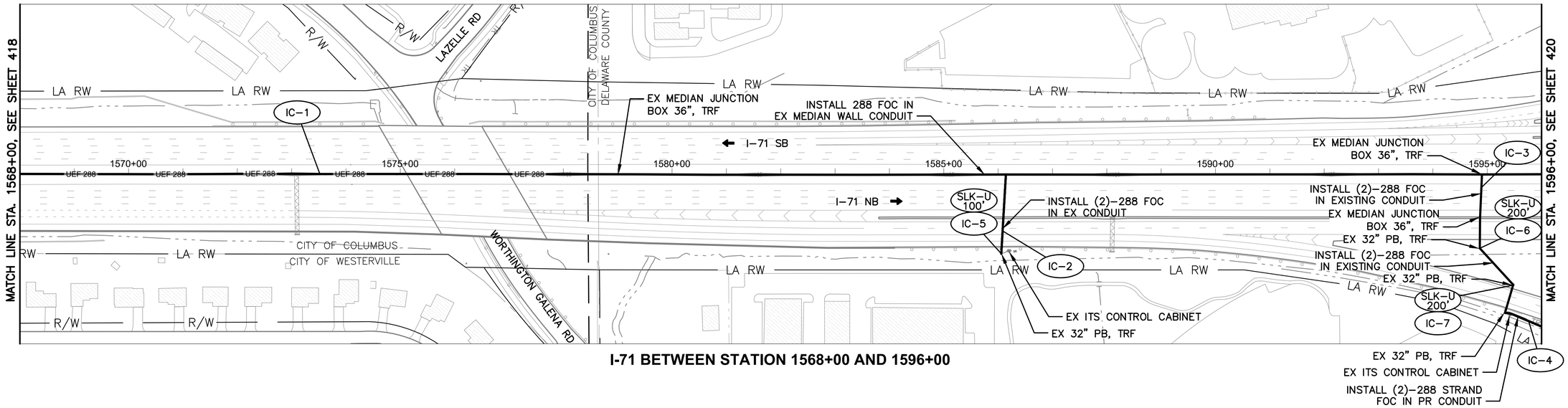
INTERCONNECT PLAN
I-71 BETWEEN STA. 1540+00 AND 1568+00

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E - FINAL SUBMITTAL

418
915

3378-E

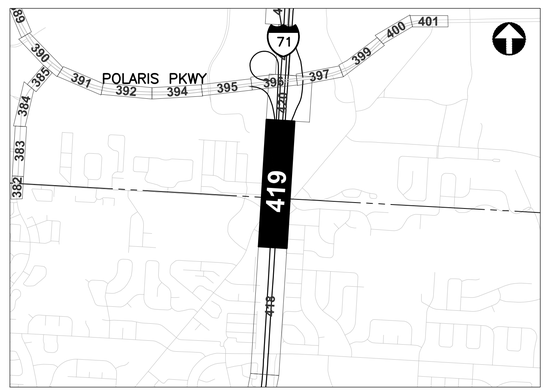
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I-71 BETWEEN STATION 1568+00 AND 1596+00

NOTES:

1. SEE SHEET 421 FOR QUANTITIES.
2. SEE SHEET 618 FOR COMMUNICATION DETAILS.



REFER TO SHEET 313 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING

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3378-E

HORIZONTAL SCALE IN FEET
0 100 200

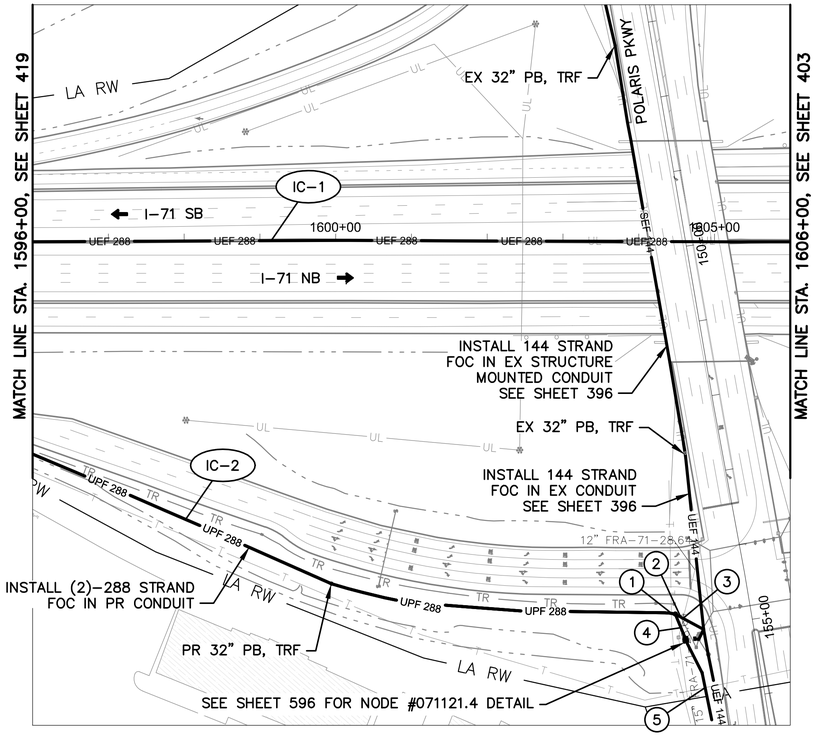
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PID NUMBER: 99733

INTERCONNECT PLAN
I-71 BETWEEN STA. 1568+00 AND 1596+00

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

419
915

J:\Jobs\63721 ctss phase e\TECHPROD\Sheets\CTSS_PhE_Trunk3_I-71_INTERCONNECT.dwg – I-71-4 layout ~ last saved by gburch 09/05/2018 05:38pm ~ printed 09/12/2018 01:41pm PSLTS: 1 LTS: 1 CAS: 1:1



I-71 BETWEEN STATION 1596+00 AND 1606+00

NOTES:

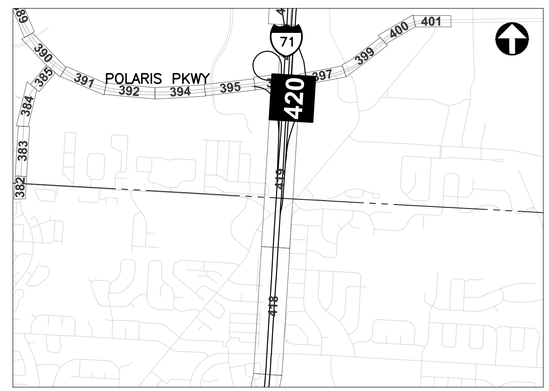
1. SEE SHEET 421 FOR QUANTITIES.
2. SEE SHEET 618 FOR COMMUNICATION DETAILS.

(#) EXISTING UTILITY CROSSING. SEE UTILITY CROSSING INFO SHEET 325.

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CITY OF COLUMBUS UTILITY LEGEND

☒	SEWER
☐	WATER
☐	POWER
☒	LIGHTING



REFER TO SHEET 313 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

3378-E

HORIZONTAL SCALE IN FEET
0 100 200

CIP: 540007-100012
PID NUMBER: 99733

INTERCONNECT PLAN
I-71 BETWEEN STA. 1596+00 AND 1606+00

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

420
915

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ESTIMATED QUANTITIES

SHEET NO.	REFERENCE NO.	LOCATION	STATION		202	625	625	625	632															
					EXISTING CONDUIT CLEANED, AS PER PLAN	CONDUIT, 4", AS PER PLAN	PULL BOX, CONCRETE 32", AS PER PLAN	TRENCH, 36" DEEP, AS PER PLAN	INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 288 STRAND															
			FROM	TO	FT	FT	EACH	FT	FT															
I-71 BETWEEN STA. 1484+00 AND 1512+00																								
416	IC-2	I-71	1483+77, 181' RT						100															
416	IC-1	I-71	1488+62, 265' RT	1512+00, 1' LT	3,788				3,788															
416	IC-3	I-71	1505+58, 1' LT	1505+67, 134' RT	135				270															
416	IC-4	I-71	1505+67, 134' RT						100															
I-71 BETWEEN STA. 1512+00 AND 1540+00																								
417	IC-1	I-71	1512+00, 1' LT	1540+00, 2' RT	2,798				2,798															
I-71 BETWEEN STA. 1540+00 AND 1568+00																								
418	IC-1	I-71	1540+00, 2' RT	1568+00, 0' RT	2,799				2,799															
418	IC-2	I-71	1540+78, 0' RT	1540+78, 106' RT	106				212															
418	IC-3	I-71	1540+78, 106' RT						100															
I-71 BETWEEN STA. 1568+00 AND 1596+00																								
419	IC-1	I-71	1568+00, 0' RT	1596+00, 0' RT	2,800				2,800															
419	IC-5	I-71	1586+06, 144' RT						100															
419	IC-2	I-71	1586+15, 0' RT	1586+06, 144' RT	145				290															
419	IC-6	I-71	1594+85, 136' RT						200															
419	IC-3	I-71	1594+90, 1' RT	1595+32, 256' RT	281				562															
419	IC-4	I-71	1595+32, 256' RT	1596+00, 281' RT		144		72	144															
419	IC-7	I-71	1595+48, 204' RT						200															
I-71 BETWEEN STA. 1596+00 AND 1606+00																								
420	IC-1	I-71	1596+00, 0' LT	1606+00, 1' RT	1,000				1,000															
420	IC-2	I-71	1596+00, 281' RT	1604+73, 499' RT		1,826	1	913	1,826															
SHEET TOTAL					13,852	1,970	1	985	17,289	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

AERIAL SAG: 1.5% AERIAL SAG IS INCLUDED IN THE QUANTITIES FOR ANY AERIAL FIBER OR CABLE ITEMS.

3378-E

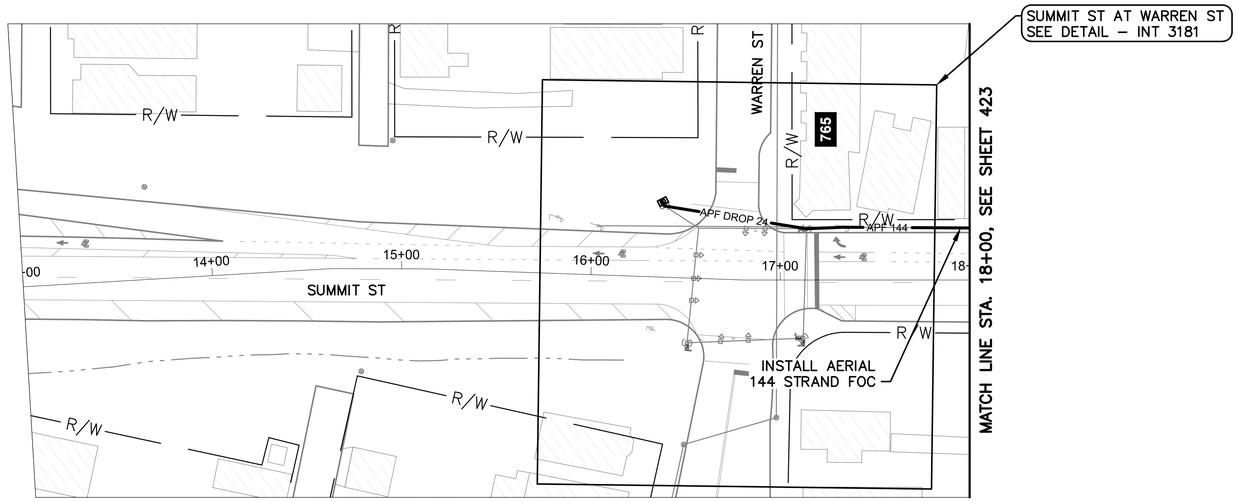
CIP: 540007-100012
PID NUMBER: 99733

I-71 BETWEEN STA. 1484+00 & 1606+00

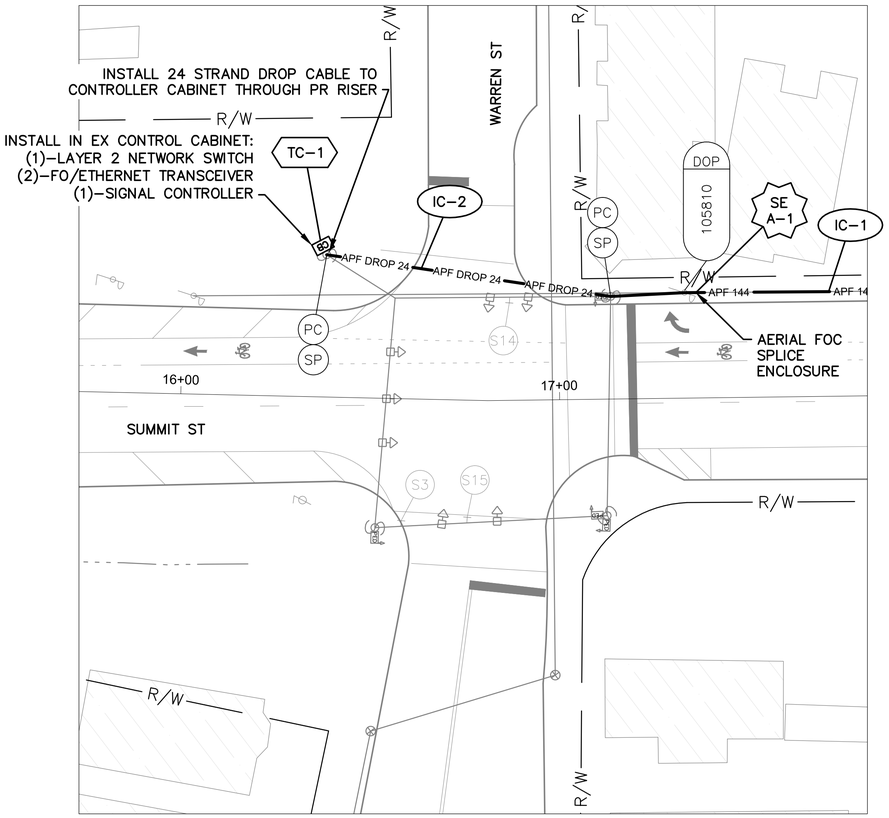
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E - FINAL SUBMITTAL

421
915

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SUMMIT ST BETWEEN STATION 13+00 AND 18+00



DETAIL - INT 3181

0 20 40

HORIZONTAL
SCALE IN FEET

NOTES:

1. SEE SHEET 426 FOR QUANTITIES.
2. SEE SHEETS 619 & 718 FOR COMMUNICATION DETAILS.

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UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☒ POWER
- ☒ LIGHTING



REFER TO SHEET 317 FOR
INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

0 40 80

HORIZONTAL
SCALE IN FEET

CIP: 540007–100012
PID NUMBER: 99733

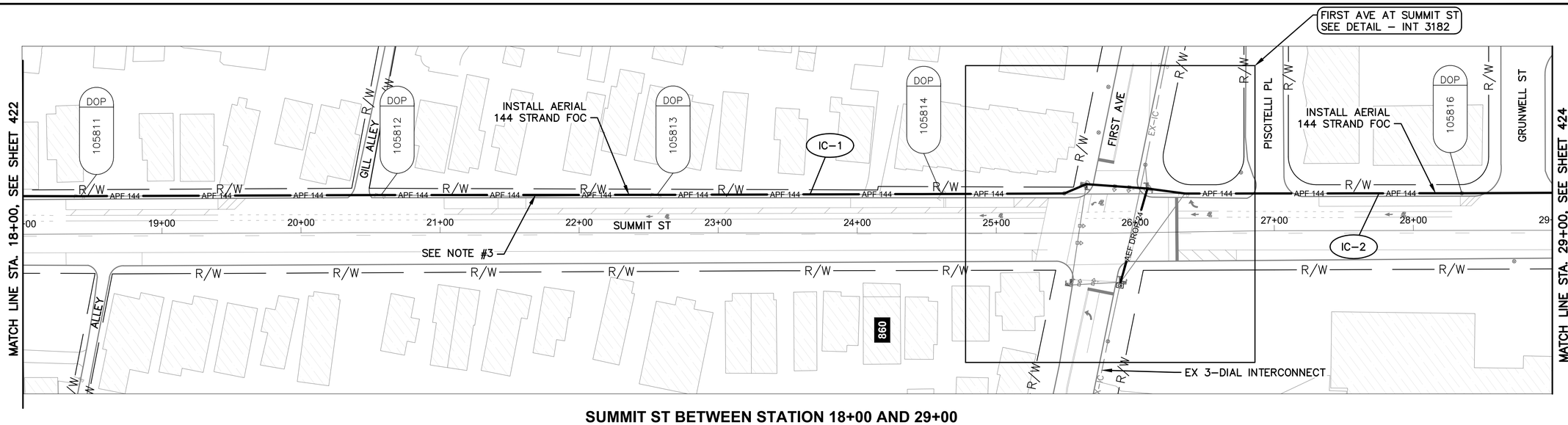
INTERCONNECT PLAN
SUMMIT ST BETWEEN STA. 13+00 AND 18+00, INT 3181

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

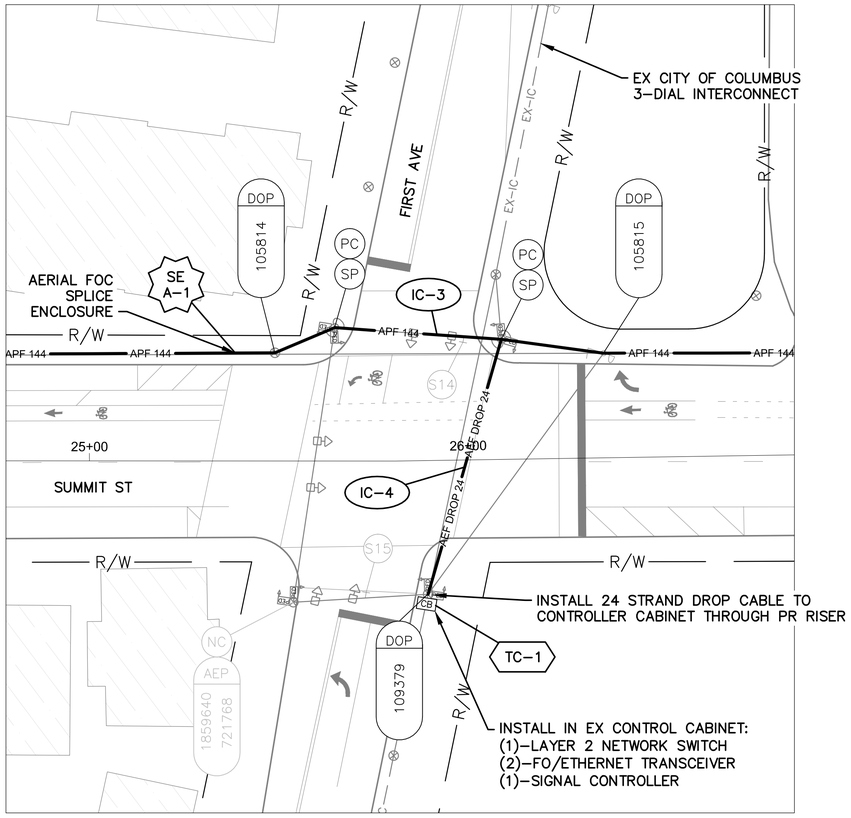
422
915

3378-E

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SUMMIT ST BETWEEN STATION 18+00 AND 29+00



DETAIL - INT 3182

0 20 40
HORIZONTAL
SCALE IN FEET

NOTES:

1. SEE SHEET 426 FOR QUANTITIES.
2. SEE SHEETS 619 & 719 FOR COMMUNICATION DETAILS.
3. INSTALL CABLE GUARD WHERE AERIAL OBSTRUCTIONS ARE PRESENT.

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CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☒ POWER
- ☒ LIGHTING



REFER TO SHEET 317 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

0 40 80
HORIZONTAL
SCALE IN FEET

CIP: 540007–100012
PID NUMBER: 99733

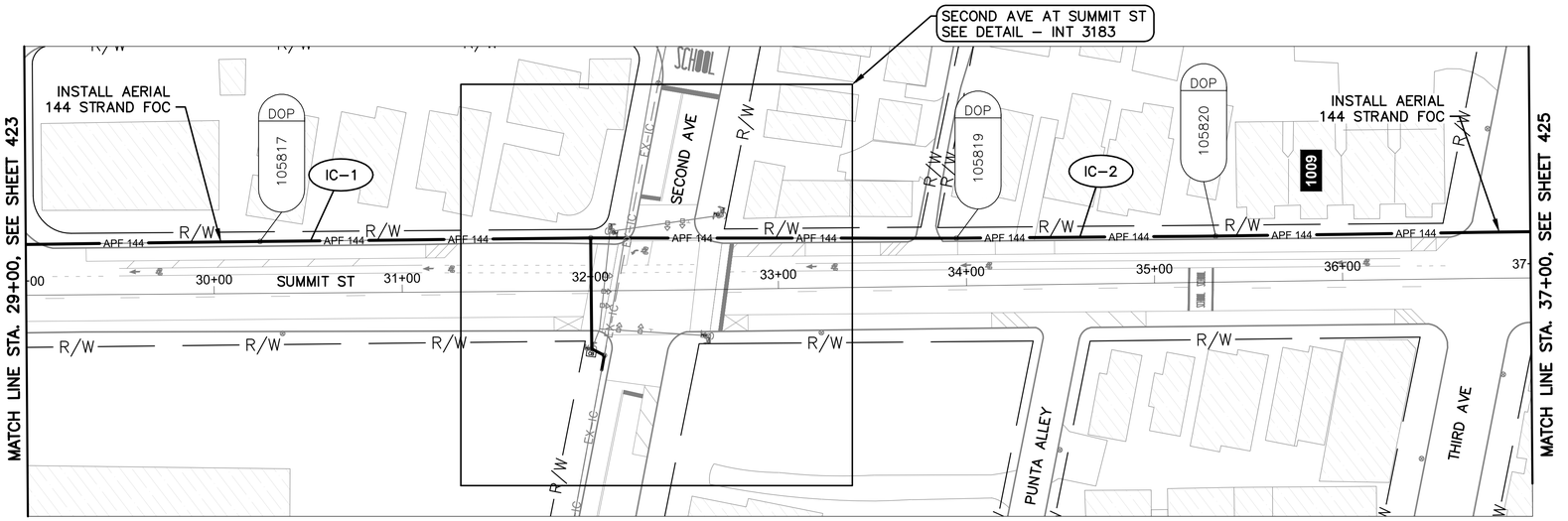
INTERCONNECT PLAN
SUMMIT ST BETWEEN STA. 18+00 AND 29+00, INT 3182

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

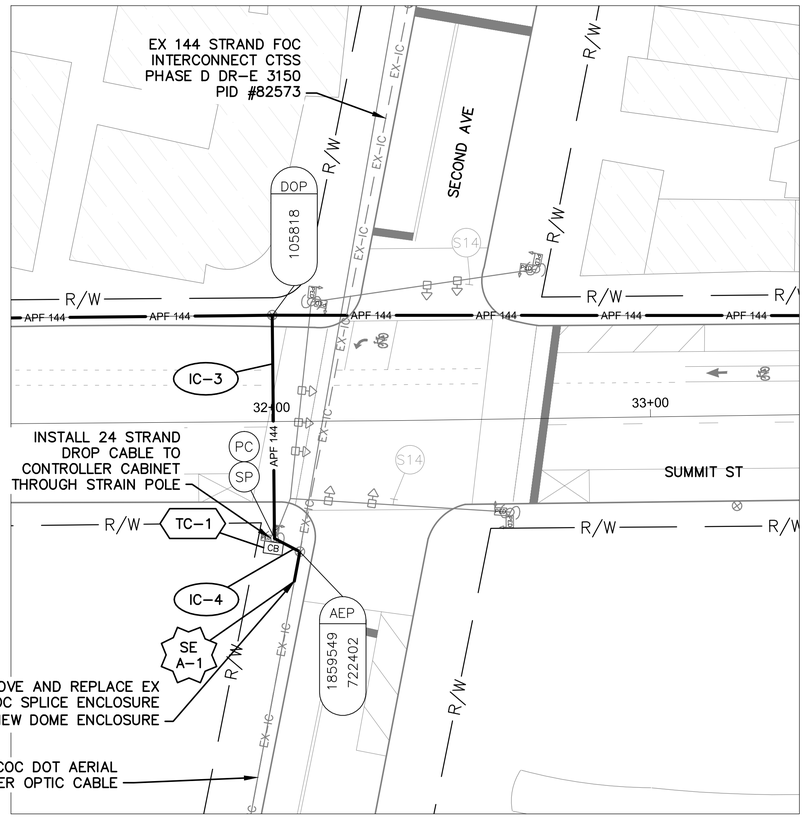
423
915

3378-E

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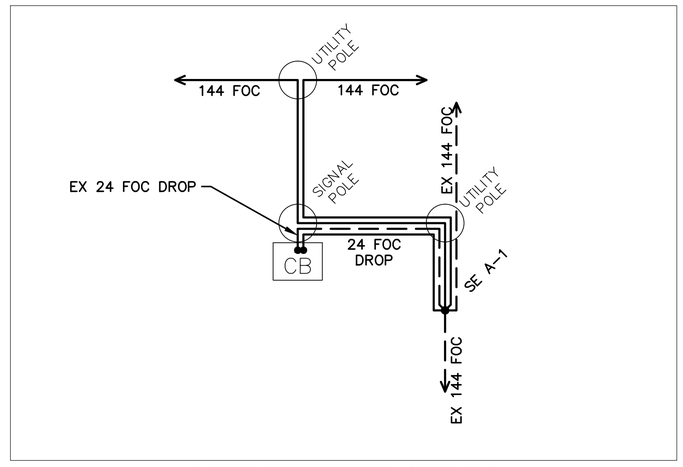


SUMMIT ST BETWEEN STATION 29+00 AND 37+00



DETAIL - INT 3183

0 20 40
HORIZONTAL
SCALE IN FEET



CABLE SCHEMATIC - INT 3183
NOT TO SCALE

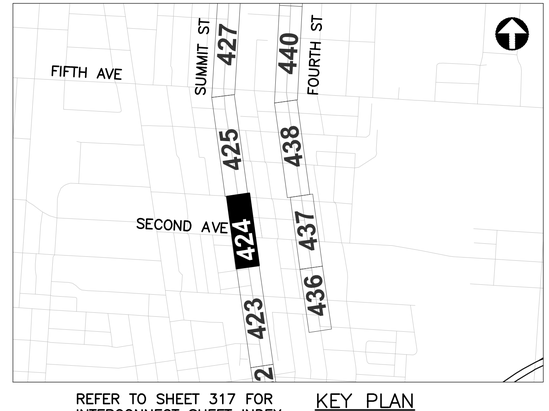
NOTES:

1. SEE SHEET 426 FOR QUANTITIES.
2. SEE SHEETS 619 & 720 FOR COMMUNICATION DETAILS.

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CITY OF COLUMBUS
UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☒ POWER
- ☒ LIGHTING



REFER TO SHEET 317 FOR
INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

0 40 80
HORIZONTAL
SCALE IN FEET

CIP: 540007–100012
PID NUMBER: 99733

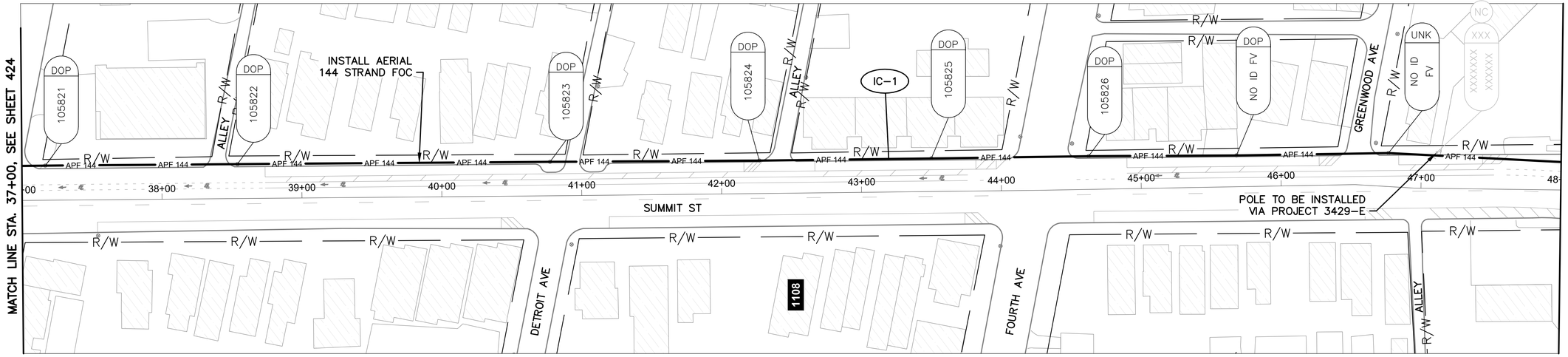
INTERCONNECT PLAN
SUMMIT ST BETWEEN STA. 29+00 AND 37+00, INT 3183

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

424
915

3378-E

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SUMMIT ST BETWEEN STATION 37+00 AND 48+00

NOTES:

1. SEE SHEET 426 FOR QUANTITIES.
2. SEE SHEET 619 FOR COMMUNICATION DETAILS.

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CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☒ POWER
- ☒ LIGHTING



REFER TO SHEET 317 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

HORIZONTAL SCALE IN FEET
0 40 80

CIP: 540007-100012
PID NUMBER: 99733

INTERCONNECT PLAN
SUMMIT ST BETWEEN STA. 37+00 AND 48+00

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

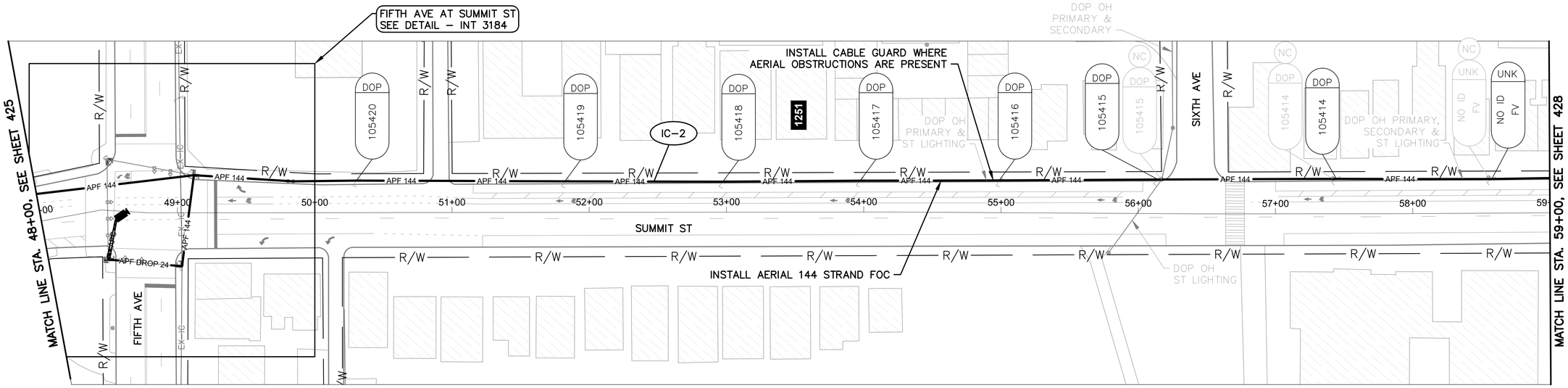
425
915

3378-E

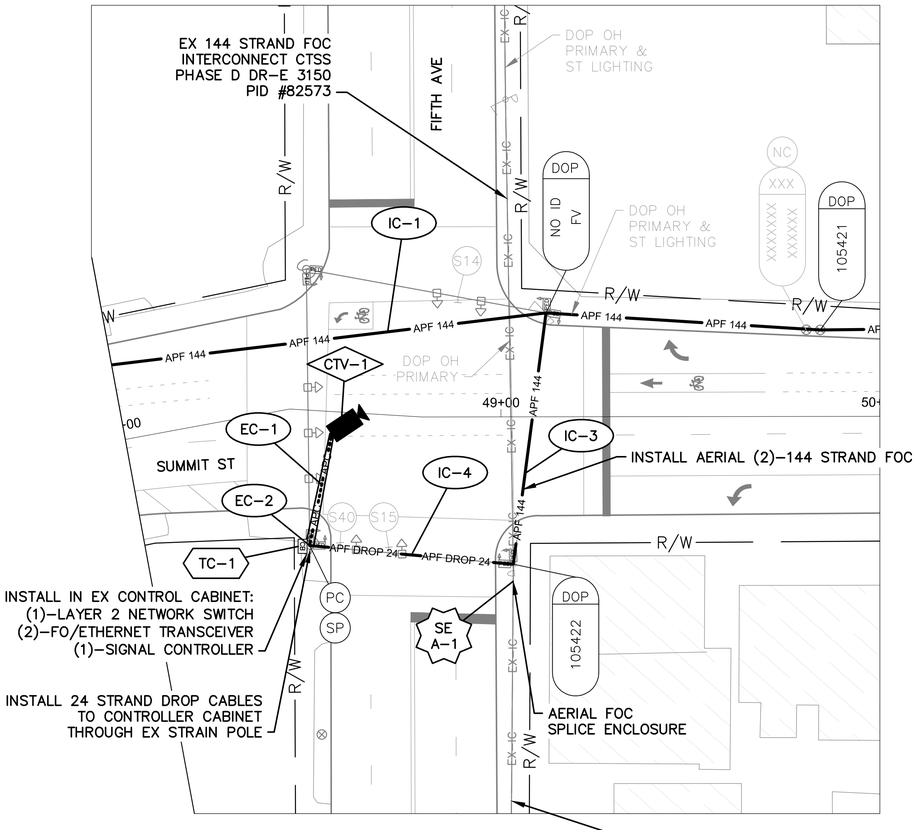
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ESTIMATED QUANTITIES

SHEET NO.	REFERENCE NO.	LOCATION	STATION		632	632	632	632	632	632	632	632	632	633	633	633								
					CONDUIT RISER, 2", 725.04, AS PER PLAN	INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 144 STRAND	INTERCONNECT CABLE, MISC.: FIBER OPTIC DROP CABLE, 24 STRAND	INTERCONNECT CABLE, MISC.: FIBER OPTIC FUSION SPLICE	INTERCONNECT CABLE, MISC.: OVERLASH TO EXISTING INTERCONNECT	INTERCONNECT CABLE, MISC.: TERMINATION PANEL, 24 FIBER	INTERCONNECT, MISC.: SPLICE ENCLOSURE, CLAMSHELL, 288 SPLICE	INTERCONNECT, MISC.: SPLICE ENCLOSURE, DOME, 800 SPLICE	MESSENGER WIRE, 7 STRAND, 1/4" DIAMETER WITH ACCESSORIES, AS PER PLAN	CONTROLLER ITEM, MISC.: FIBER OPTIC ETHERNET TRANSCEIVER, SHORT RANGE	CONTROLLER ITEM, MISC.: LAYER 2 ETHERNET SWITCH	CONTROLLER UNIT, TYPE TS2/A2, AS PER PLAN							
			FROM	TO	EACH	FT	FT	EACH	FT	EACH	EACH	EACH	FT	EACH	EACH	EACH								
SUMMIT ST. BETWEEN STA. 13+00 AND 18+00, INT 3181																								
422	TC-1	SUMMIT ST	16+37, 38' LT		1		45			1				2	1	1								
422	IC-2	SUMMIT ST	16+37, 38' LT	17+33, 28' LT			96						96											
422	SE A-1	SUMMIT ST	17+33, 28' LT			75	125	12			1													
422	IC-1	SUMMIT ST	17+33, 28' LT	18+00, 27' LT		68							68											
SUMMIT ST. BETWEEN STA. 18+00 AND 29+00, INT 3182																								
423	IC-1	SUMMIT ST	18+00, 27' LT	25+48, 29' LT		760							760											
423	SE A-1	SUMMIT ST	25+48, 29' LT			150	125	24			1													
423	IC-2	SUMMIT ST	25+48, 29' LT	29+00, 27' LT		358							358											
423	IC-3	SUMMIT ST	25+48, 29' LT	26+09, 32' LT			63																	
423	IC-4	SUMMIT ST	25+88, 35' RT	26+09, 32' LT			71		71															
423	TC-1	SUMMIT ST	25+88, 35' RT		1		45			1				2	1	1								
SUMMIT ST. BETWEEN STA. 29+00 AND 37+00, INT 3183																								
424	IC-1	SUMMIT ST	29+00, 27' LT	32+00, 28' LT		305							305											
424	IC-2	SUMMIT ST	32+00, 28' LT	37+00, 25' LT		508							508											
424	IC-3	SUMMIT ST	32+00, 28' LT	32+07, 34' RT		150							75											
424	TC-1	SUMMIT ST	32+00, 31' RT				45			1														
424	IC-4	SUMMIT ST	32+00, 31' RT	32+07, 34' RT			8		8															
424	SE A-1	SUMMIT ST	32+07, 34' RT			150	125	312				1												
SUMMIT ST. BETWEEN STA. 37+00 AND 48+00																								
425	IC-1	SUMMIT ST	37+00, 25' LT	48+00, 28' LT		1,117							1,117											

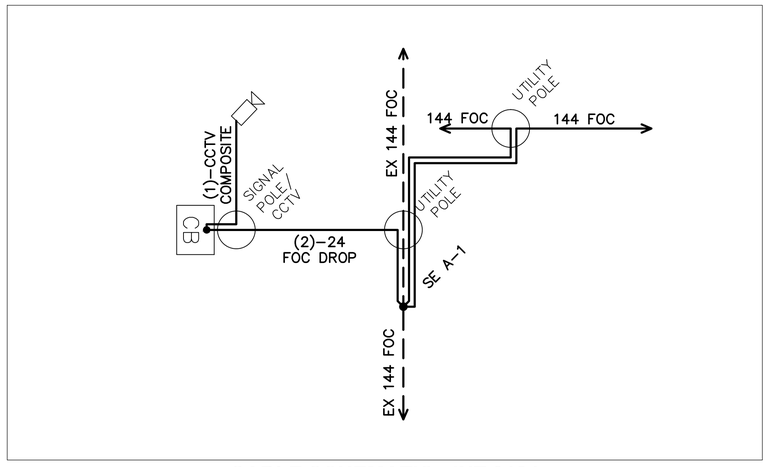


SUMMIT ST BETWEEN STATION 48+00 AND 59+00



DETAIL - INT 3184

0 20 40
HORIZONTAL
SCALE IN FEET



CABLE SCHEMATIC - INT 3184
NOT TO SCALE

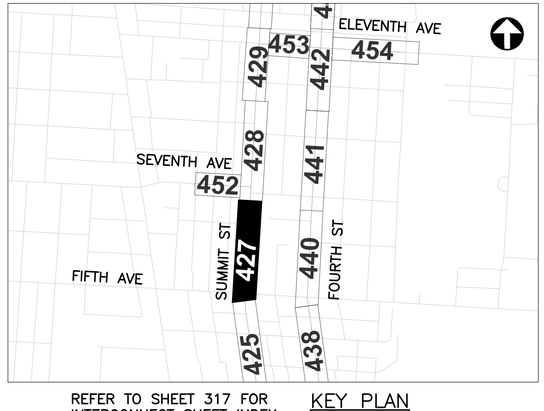
NOTES:

1. SEE SHEET 431 FOR QUANTITIES.
2. SEE SHEETS 619 & 724 FOR COMMUNICATION DETAILS.
3. INSTALL PROPOSED DROP CABLE IN EXISTING FLEXIBLE CONDUIT TO CABINET INSTALLED IN PREVIOUS CTSS PHASE.

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- ☐ SEWER
- ☐ WATER
- ☒ POWER
- ☒ LIGHTING



REFER TO SHEET 317 FOR
INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

0 40 80
HORIZONTAL
SCALE IN FEET

CIP: 540007–100012
PID NUMBER: 99733

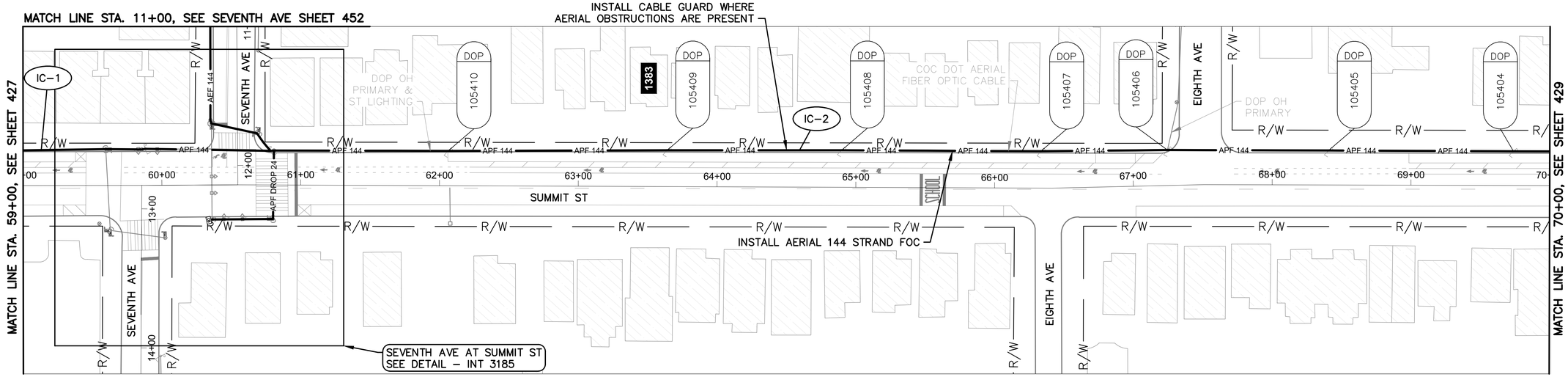
INTERCONNECT PLAN
SUMMIT ST BETWEEN STA. 48+00 AND 59+00, INT 3184

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

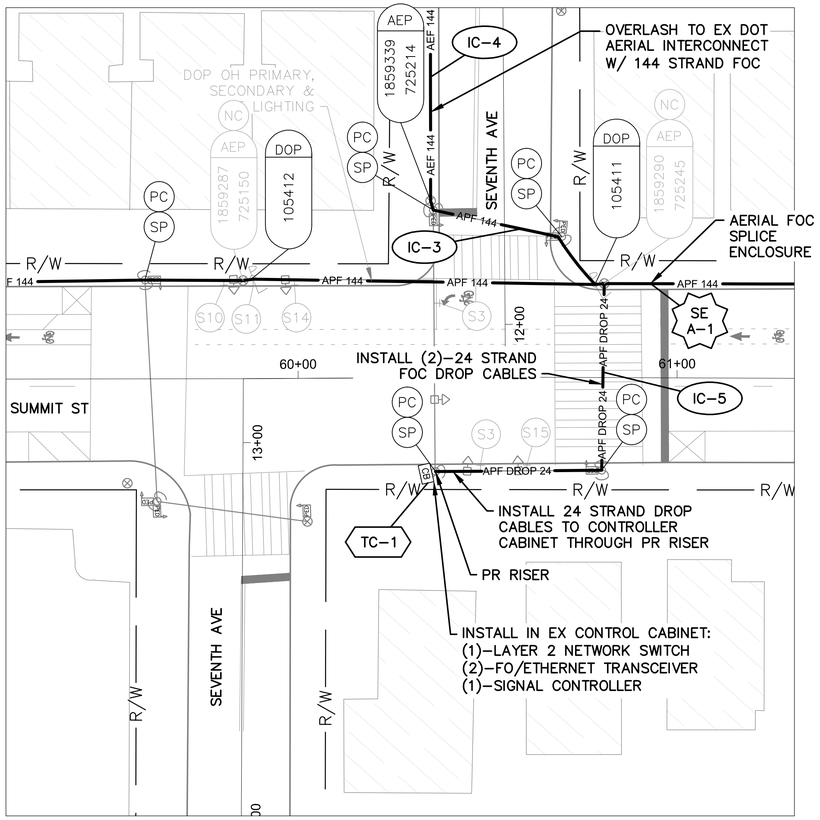
427
915

3378-E

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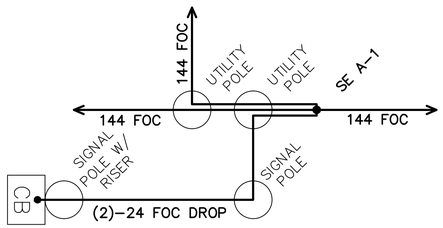


SUMMIT ST BETWEEN STATION 59+00 AND 70+00



DETAIL - INT 3185

0 20 40
HORIZONTAL SCALE IN FEET



CABLE SCHEMATIC - INT 3185
NOT TO SCALE

NOTES:

1. SEE SHEET 431 FOR QUANTITIES.
2. SEE SHEETS 619 & 725 FOR COMMUNICATION DETAILS.

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CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☒ POWER
- ☒ LIGHTING



REFER TO SHEET 317 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

0 40 80
HORIZONTAL SCALE IN FEET

CIP: 540007–100012
PID NUMBER: 99733

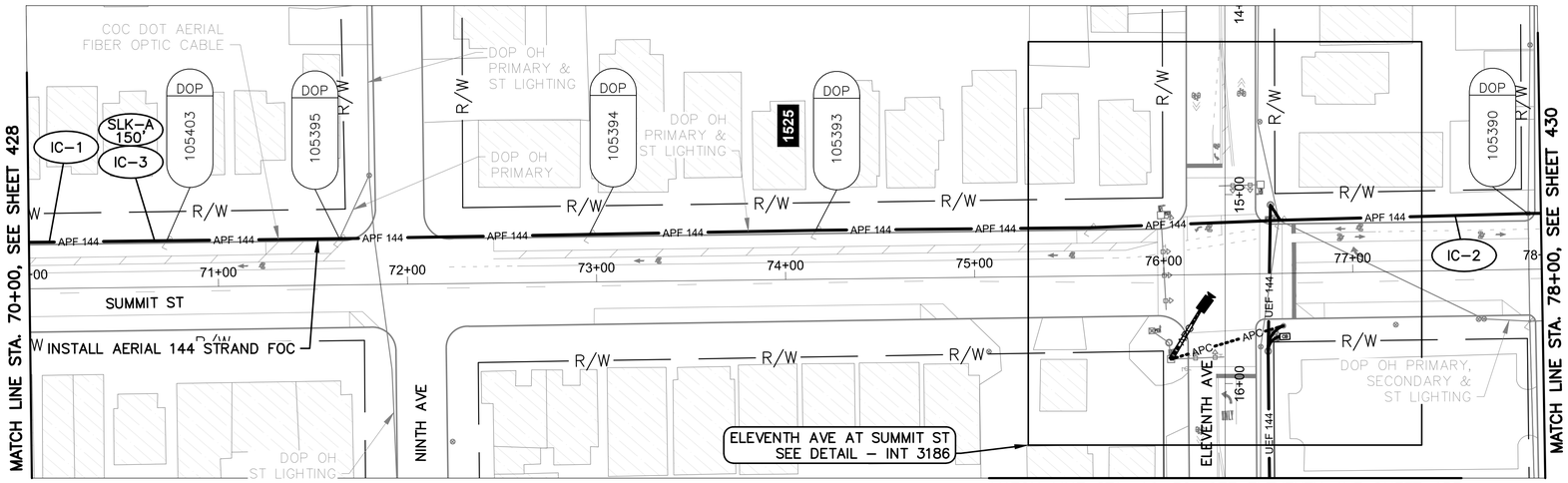
INTERCONNECT PLAN
SUMMIT ST BETWEEN STA. 59+00 AND 70+00, INT 3185

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

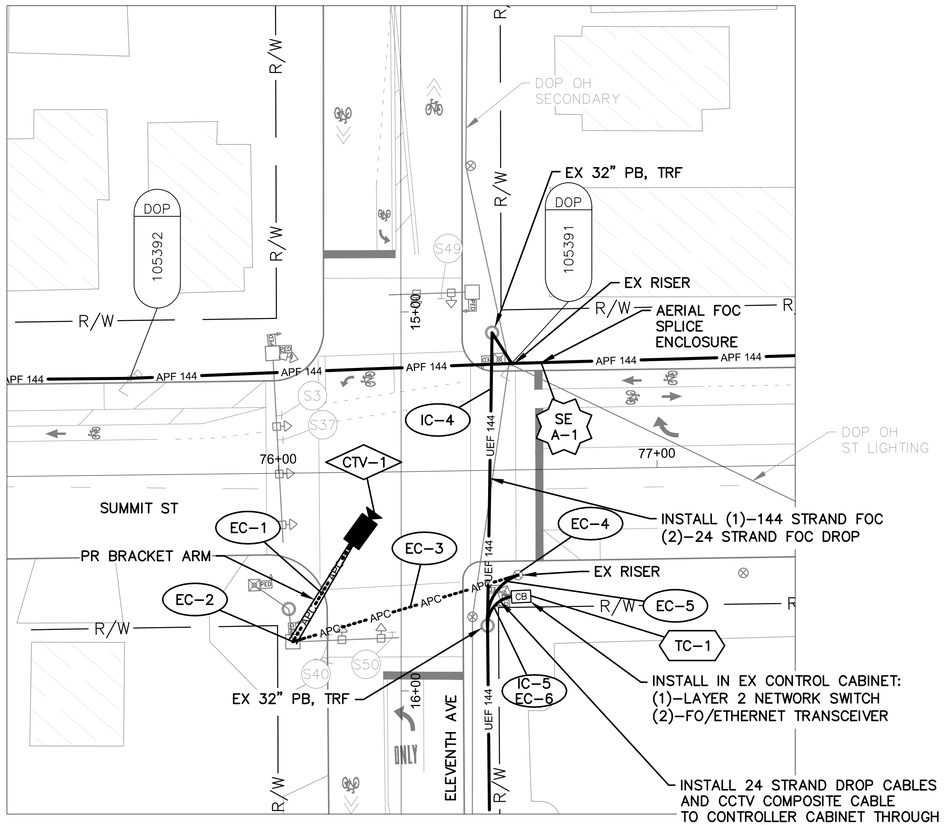
3378-E

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915

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SUMMIT ST BETWEEN STATION 70+00 AND 78+00



DETAIL - INT 3186

0 20 40
HORIZONTAL SCALE IN FEET

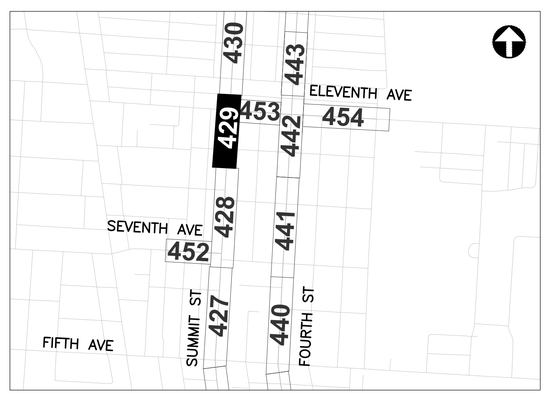
NOTES:

1. SEE SHEET 431 FOR QUANTITIES.
2. SEE SHEETS 619 & 726 FOR COMMUNICATION DETAILS.

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CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☒ POWER
- ☒ LIGHTING



REFER TO SHEET 317 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

0 40 80
HORIZONTAL SCALE IN FEET

CIP: 540007–100012
PID NUMBER: 99733

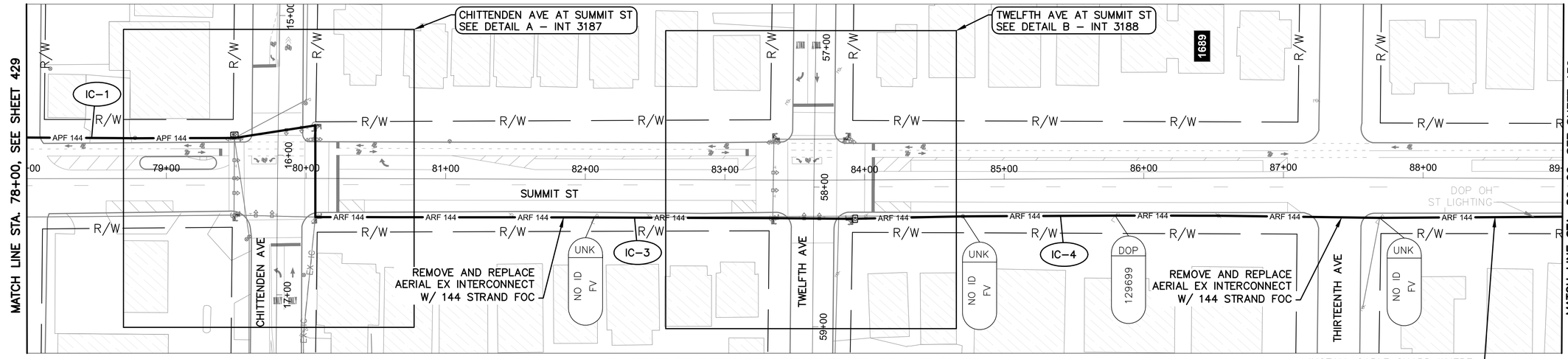
INTERCONNECT PLAN
SUMMIT ST BETWEEN STA. 70+00 AND 78+00, INT 3186

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

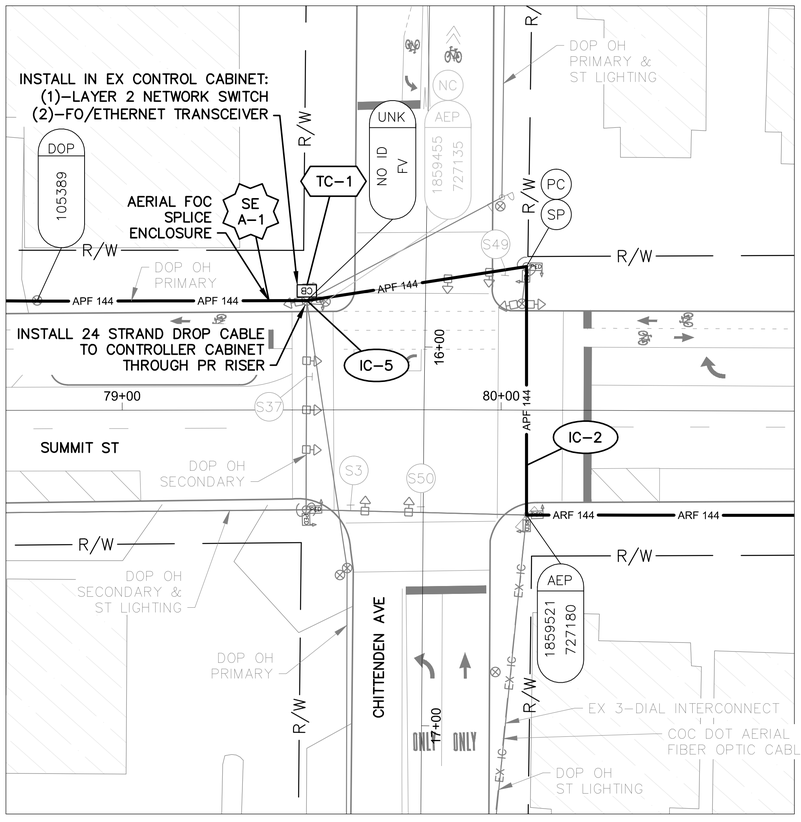
3378-E

429
915

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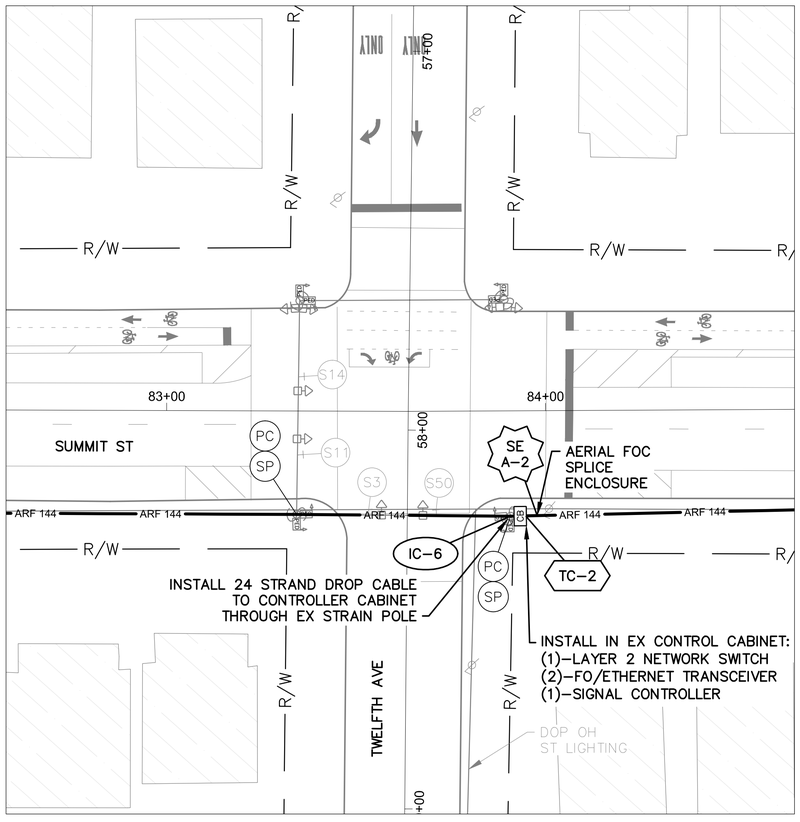


SUMMIT ST BETWEEN STATION 78+00 AND 89+00



DETAIL A - INT 3187

0 20 40
HORIZONTAL
SCALE IN FEET



DETAIL B - INT 3188

0 20 40
HORIZONTAL
SCALE IN FEET

NOTES:

1. SEE SHEET 431 FOR QUANTITIES.
2. SEE SHEETS 619, 727, & 728 FOR COMMUNICATION DETAILS.
3. EXISTING CONDUIT TO CONTROLLER CABINET IS FULL. INSTALL NEW FLEXIBLE CONDUIT TO CABINET FOR PROPOSED DROP CABLE AT INT 3188.

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CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☒ POWER
- ☒ LIGHTING



REFER TO SHEET 317 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

0 40 80
HORIZONTAL
SCALE IN FEET

CIP: 540007–100012
PID NUMBER: 99733

INTERCONNECT PLAN
SUMMIT ST BETWEEN STA. 78+00 AND 89+00, INTS 3187 & 3188

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

430
915

3378-E

J:\Jobs\63721 CTSS Phase E\TECHPROD\Sheets\CTSS_PhE_Trunk4_SUMMIT_INTERCONNECT.dwg ~ SUMMIT-4 layout ~ last saved by: gburch 09/13/2018 03:36pm ~ printed 09/13/2018 05:45pm PSLTS: 1 LTS: 1 CAS: 1:1

ESTIMATED QUANTITIES

SHEET NO.	REFERENCE NO.	LOCATION	STATION		202	625	632	632	632	632	632	632	632	632	632	632	632	633	633	633			
					EXISTING CONDUIT CLEANED, AS PER PLAN	BRACKET ARM, 30', AS PER PLAN	CONDUIT RISER, 2", 725.04, AS PER PLAN	INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 144 STRAND	INTERCONNECT CABLE, MISC.: FIBER OPTIC DROP CABLE, 24 STRAND	INTERCONNECT CABLE, MISC.: FIBER OPTIC FUSION SPLICE	INTERCONNECT CABLE, MISC.: OVERLASH TO EXISTING INTERCONNECT	INTERCONNECT CABLE, MISC.: REMOVE EXISTING OVERHEAD INTERCONNECT	INTERCONNECT CABLE, MISC.: TERMINATION PANEL, 24 FIBER	INTERCONNECT, MISC.: SPLICE ENCLOSURE, CLAMSHELL, 288 SPLICE	INTERCONNECT, MISC.: SPLICE ENCLOSURE, DOME, 800 SPLICE	MESSENGER WIRE, 7 STRAND, 1/4" DIAMETER WITH ACCESSORIES, AS PER PLAN	SIGNALIZATION, MISC.: CCTV COMPOSITE CABLE	SIGNALIZATION, MISC.: CCTV IP-CAMERA SYSTEM	CONTROLLER ITEM, MISC.: FIBER OPTIC ETHERNET TRANSCEIVER, SHORT RANGE	CONTROLLER ITEM, MISC.: LAYER 2 ETHERNET SWITCH	CONTROLLER UNIT, TYPE TS2/A2, AS PER PLAN			
			FROM	TO	FT	EACH	EACH	FT	FT	EACH	FT	FT	EACH	EACH	EACH	FT	FT	EACH	EACH	EACH	EACH			
SUMMIT ST. BETWEEN STA. 48+00 AND 59+00, INT 3184																								
427	IC-1	SUMMIT ST	48+00, 28' LT	49+12, 27' LT				116								116								
427	IC-3	SUMMIT ST	49+12, 27' LT	49+03, 39' RT				134								67								
427	SE A-1	SUMMIT ST	49+03, 39' RT					150	250	312					1									
427	IC-4	SUMMIT ST	49+03, 39' RT	48+51, 36' RT					110							55								
427	TC-1	SUMMIT ST	48+51, 36' RT						20				2				20		2	1	1			
427	EC-2	SUMMIT ST	48+51, 36' RT			1											70							
427	EC-1	SUMMIT ST	48+51, 36' RT	48+56, 6' RT													30							
427	CTV-1	SUMMIT ST	48+56, 6' RT															1						
427	IC-2	SUMMIT ST	49+12, 27' LT	59+00, 25' LT				1,071								1,071								
SUMMIT ST. BETWEEN STA. 59+00 AND 70+00, INT 3185																								
428	IC-1	SUMMIT ST	59+00, 25' LT	60+80, 25' LT				184								184								
428	IC-3	SUMMIT ST	60+35, 47' LT	60+78, 25' LT				53								53								
428	IC-4	SUMMIT ST	60+35, 47' LT	60+35, 114' LT				68			67					68								
428	IC-5	SUMMIT ST	60+36, 25' RT	60+80, 25' LT					188							94								
428	TC-1	SUMMIT ST	60+36, 25' RT				1		20				2						2	1	1			
428	SE A-1	SUMMIT ST	60+80, 25' LT					225	250	228				1										
428	IC-2	SUMMIT ST	60+80, 25' LT	70+00, 25' LT				933								933								
SUMMIT ST. BETWEEN STA. 70+00 AND 78+00, INT 3186																								
429	IC-1	SUMMIT ST	70+00, 25' LT	76+62, 28' LT				672								672								
429	IC-3	SUMMIT ST	70+66, 25' LT					150																
429	EC-2	SUMMIT ST	76+03, 45' RT			1																		
429	EC-1	SUMMIT ST	76+03, 45' RT	76+19, 19' RT													30							
429	EC-3	SUMMIT ST	76+03, 45' RT	76+63, 28' RT												63	126							
429	CTV-1	SUMMIT ST	76+19, 19' RT															1						
429	IC-4	SUMMIT ST	76+54, 108' RT	76+62, 28' LT	154			154																
429	EC-5	SUMMIT ST	76+55, 41' RT	76+63, 28' RT	17												34							
429	EC-6	SUMMIT ST	76+55, 41' RT	76+63, 33' RT	13												26							
429	IC-5	SUMMIT ST	76+62, 28' LT	76+63, 33' RT					202															
429	EC-4	SUMMIT ST	76+63, 28' RT														70							
429	SE A-1	SUMMIT ST	76+62, 28' LT					225	320	228				1										
429	IC-2	SUMMIT ST	76+62, 28' LT	78+00, 29' LT				140								140								
429	TC-1	SUMMIT ST	76+63, 33' RT						20				2				20		2	1				
SUMMIT ST. BETWEEN STA. 78+00 AND 89+00, INTS 3187 & 3188																								
430	IC-1	SUMMIT ST	78+00, 29' LT	79+48, 29' LT				151								151								
430	SE A-1	SUMMIT ST	79+48, 29' LT					150	125	24				1										
430	IC-5	SUMMIT ST	79+48, 29' LT	79+48, 29' LT			1		35															
430	TC-1	SUMMIT ST	79+48, 29' LT						10				1						2	1				
430	IC-2	SUMMIT ST	79+48, 29' LT	80+07, 28' RT				126								126								
430	IC-3	SUMMIT ST	80+07, 28' RT	83+90, 28' RT				390				384				390								
430	SE A-2	SUMMIT ST	83+90, 28' RT					150	125	24				1										
430	IC-6	SUMMIT ST	83+90, 28' RT	83+90, 28' RT					35															
430	TC-2	SUMMIT ST	83+90, 28' RT						10				1						2	1	1			
430	IC-4	SUMMIT ST	83+90, 28' RT	89+00, 27' RT				517				509				517								
SHEET TOTAL					184	2	2	5,759	1,720	816	67	893	8	4	1	4,700	426	2	10	5	3	-	-	-

AERIAL SAG: 1.5% AERIAL SAG IS INCLUDED IN THE QUANTITIES FOR ANY AERIAL FIBER OR CABLE ITEMS.

3378-E

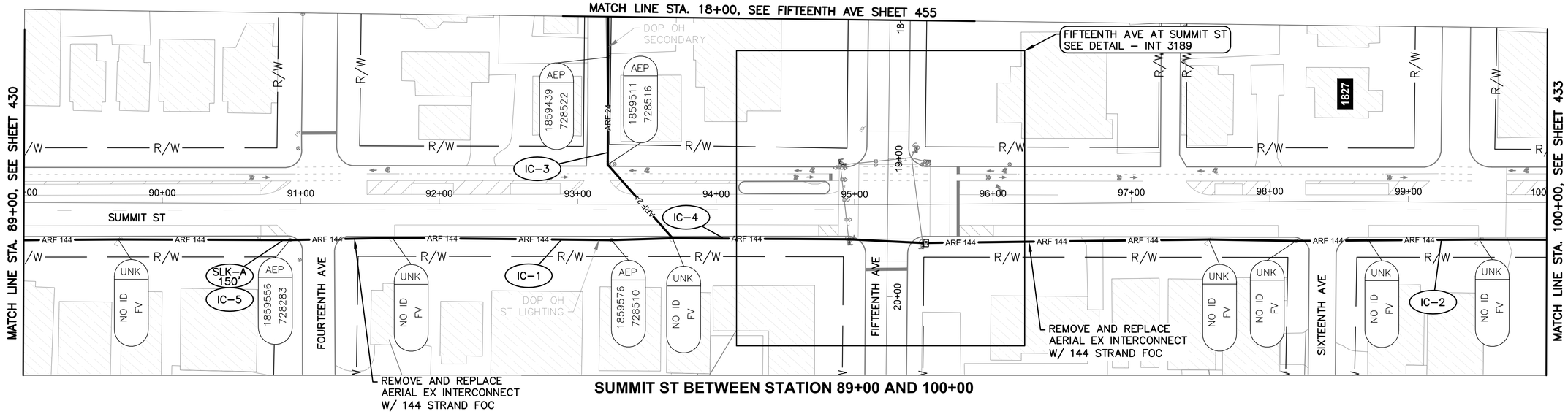
CIP: 540007–100012
PID NUMBER: 99733

SUMMIT ST BETWEEN STA. 48+00 & 89+00
INTS 3184, 3185, 3186, 3187, 3188

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

431
915

J:\Jobs\63721 CTSS Phase E\TECHPROD\Sheets\CTSS_PhE_Trunk4_SUMMIT_IC_QUANTITIES.dwg – SUMMIT ST_02 layout ~ last saved by: gburch 09/29/2017 09:25am ~ printed 09/18/2018 10:19am PSLTS: 1 LTS: 1 CAS: 1:1



SUMMIT ST BETWEEN STATION 89+00 AND 100+00

DETAIL - INT 3189

0 20 40
HORIZONTAL SCALE IN FEET

CABLE SCHEMATIC - INT 3189

NOT TO SCALE

NOTES:

1. SEE SHEET 435 FOR QUANTITIES.
2. SEE SHEETS 620 & 729 FOR COMMUNICATION DETAILS.

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- ☐ SEWER
- ☐ WATER
- ☒ POWER
- ☒ LIGHTING



REFER TO SHEET 317 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

0 40 80
HORIZONTAL SCALE IN FEET

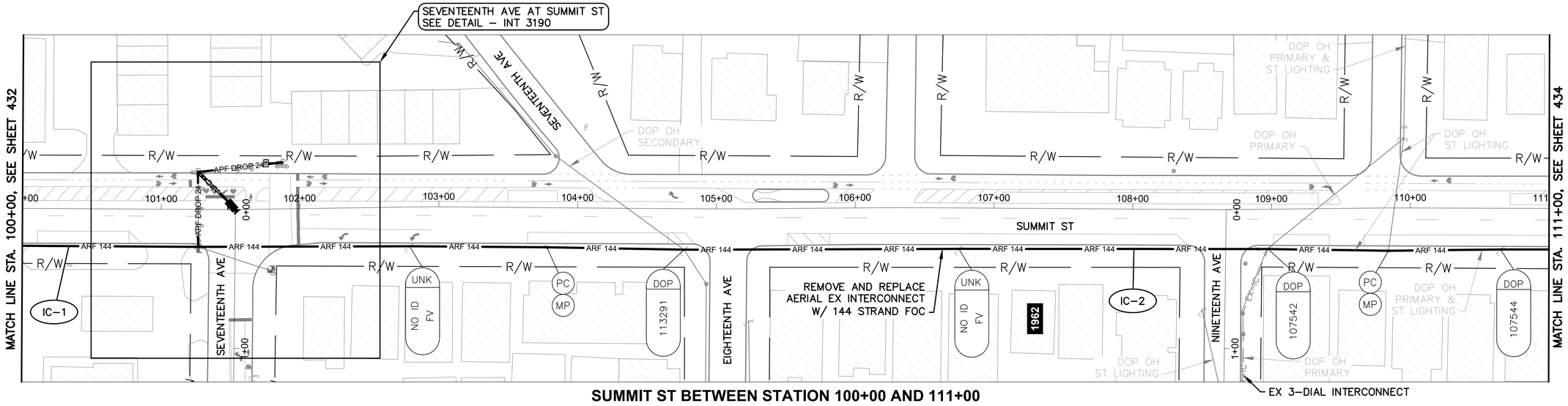
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PID NUMBER: 99733

INTERCONNECT PLAN
SUMMIT ST BETWEEN STA. 89+00 AND 100+00, INT 3189

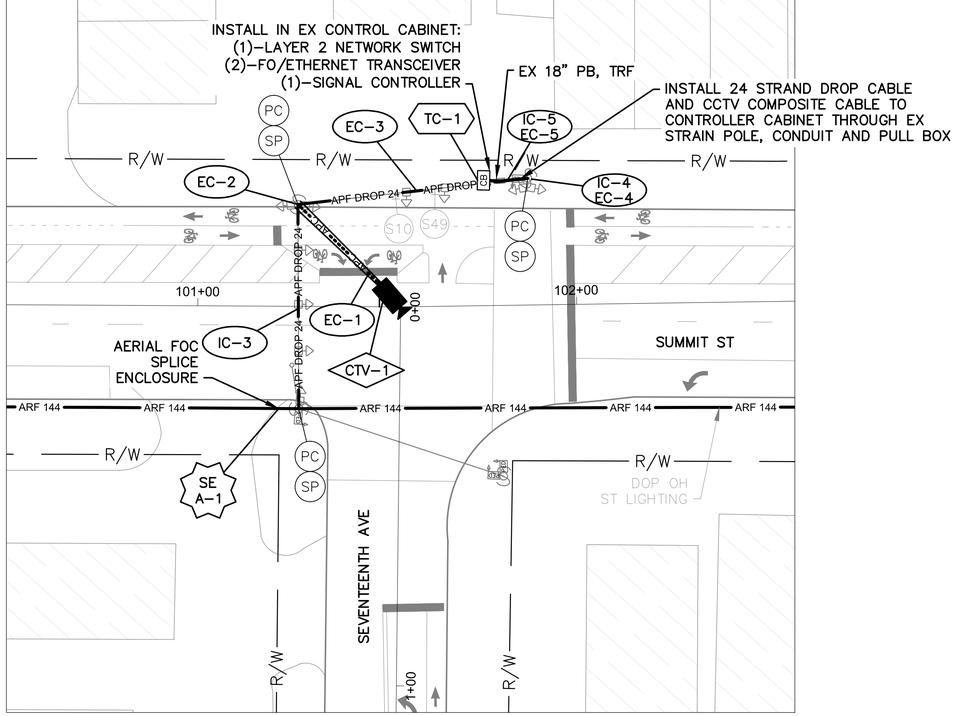
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

3378-E

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SUMMIT ST BETWEEN STATION 100+00 AND 111+00



DETAIL - INT 3190

0 20 40
HORIZONTAL
SCALE IN FEET

NOTES:

1. SEE SHEET 435 FOR QUANTITIES.
2. SEE SHEETS 620 & 730 FOR COMMUNICATION DETAILS.

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CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☒ POWER
- ☒ LIGHTING



REFER TO SHEET 317 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

0 40 80
HORIZONTAL
SCALE IN FEET

CIP: 540007–100012
PID NUMBER: 99733

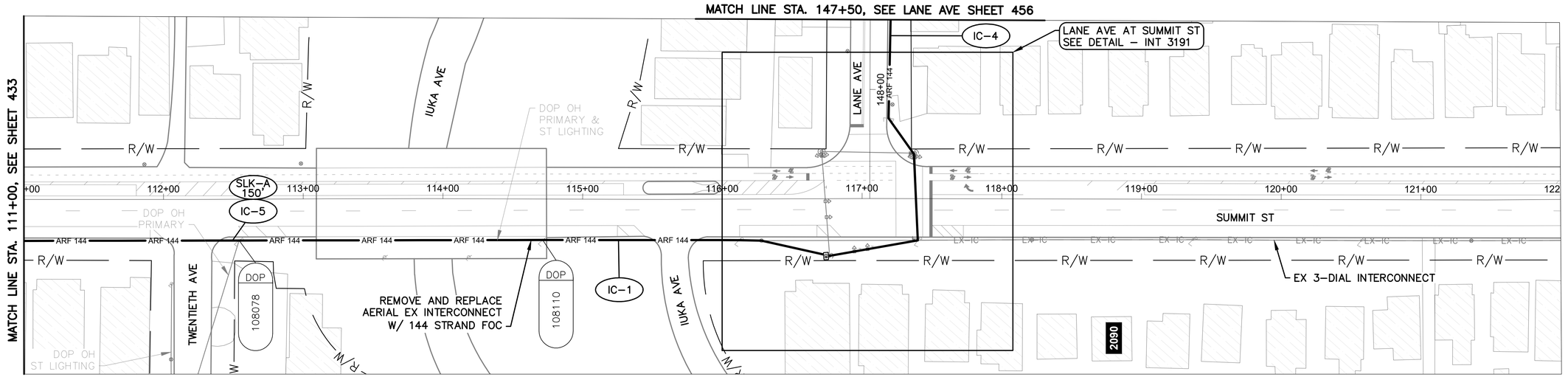
INTERCONNECT PLAN
SUMMIT ST BETWEEN STA. 100+00 AND 111+00, INT 3190

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

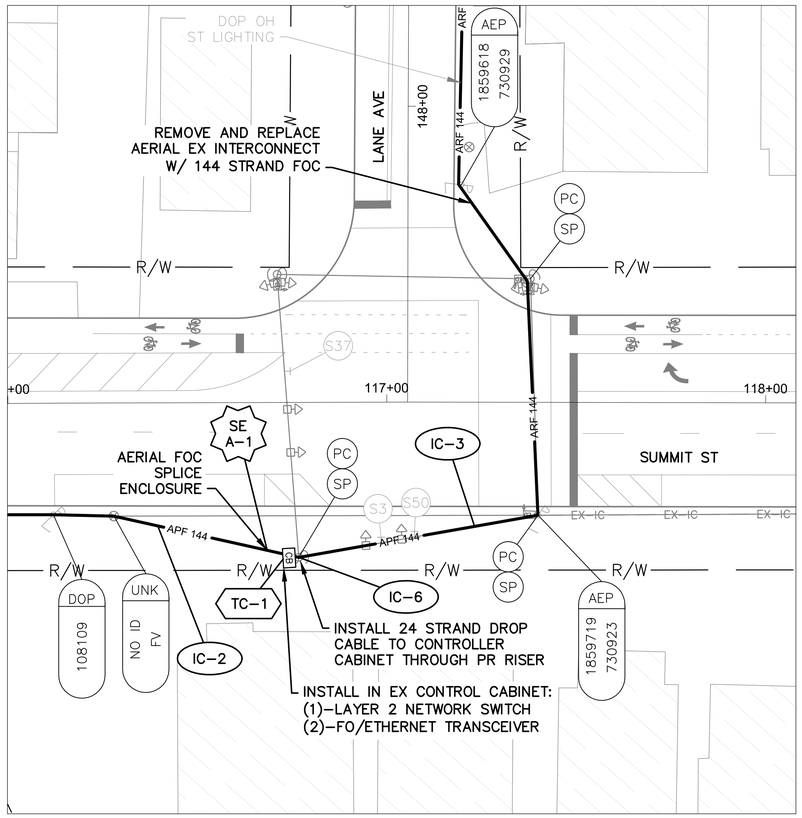
433
915

3378-E

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SUMMIT ST BETWEEN STATION 111+00 AND 122+00



DETAIL - INT 3191

0 20 40
HORIZONTAL SCALE IN FEET

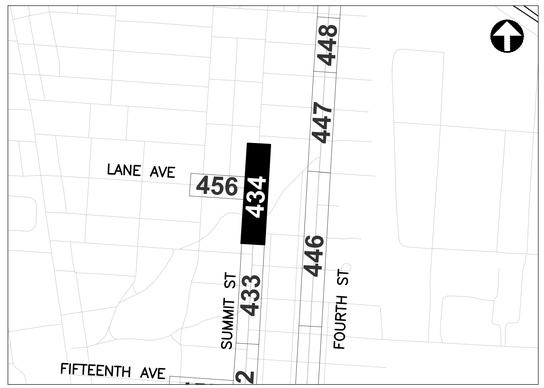
NOTES:

1. SEE SHEET 435 FOR QUANTITIES.
2. SEE SHEETS 620 & 731 FOR COMMUNICATION DETAILS.

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CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☒ POWER
- ☒ LIGHTING



REFER TO SHEET 317 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

3378-E

0 40 80
HORIZONTAL SCALE IN FEET

CIP: 540007-100012
PID NUMBER: 99733

INTERCONNECT PLAN
SUMMIT ST BETWEEN STA. 111+00 AND 122+00, INT 3191

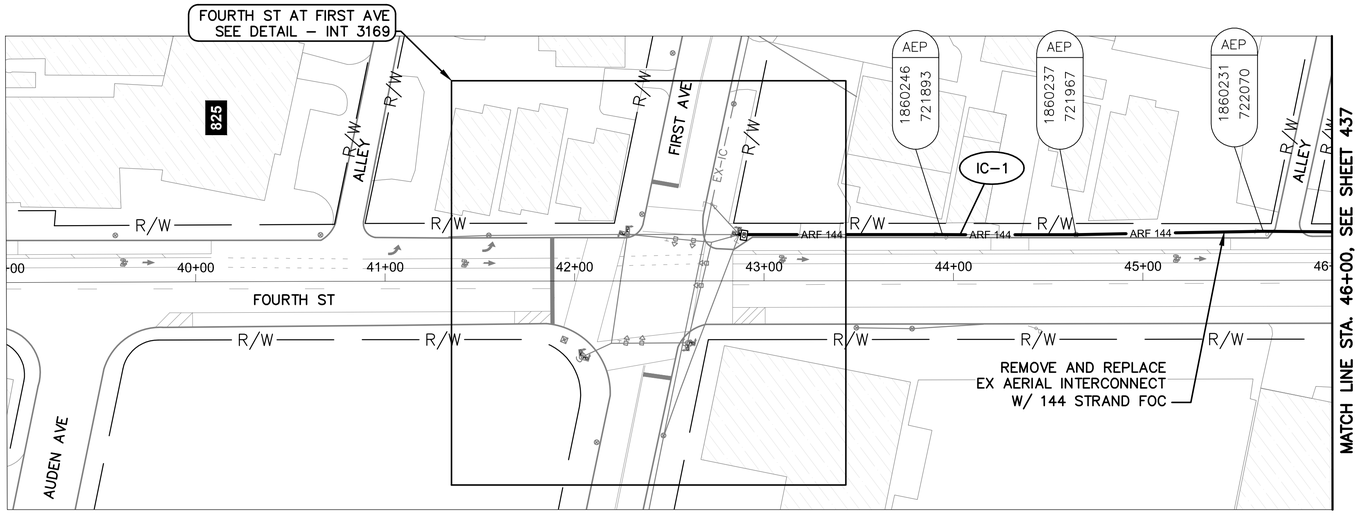
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

434
915

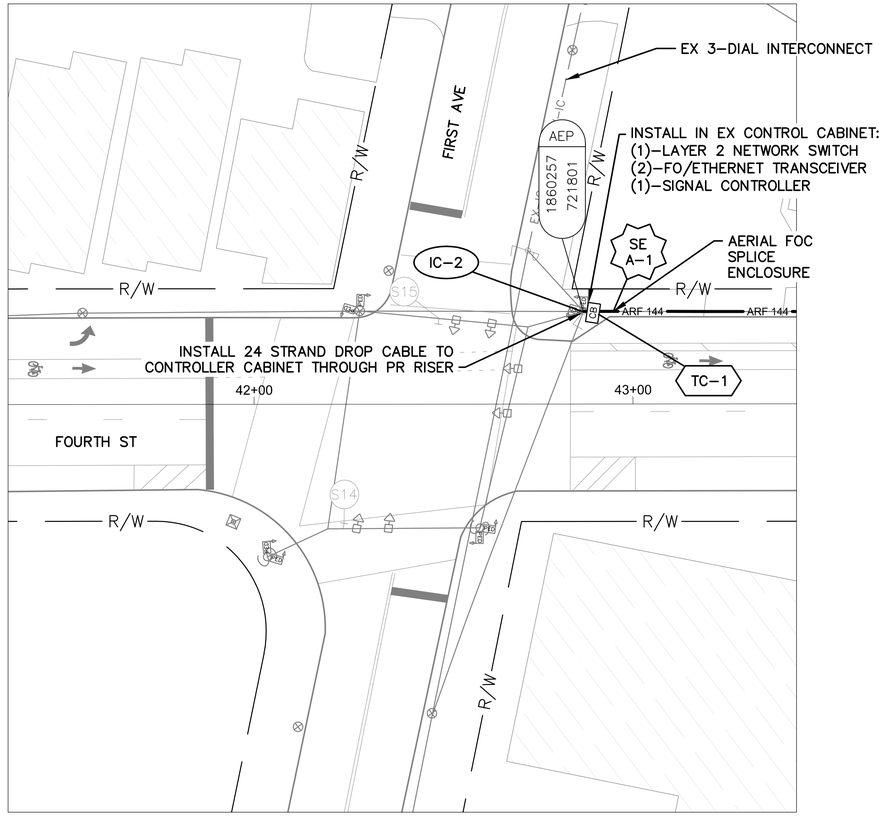
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ESTIMATED QUANTITIES

SHEET NO.	REFERENCE NO.	LOCATION	STATION		202	625	632	632	632	632	632	632	632	632	632	632	633	633	633				
					EXISTING CONDUIT CLEANED, AS PER PLAN	BRACKET ARM, 30', AS PER PLAN	CONDUIT RISER, 2", 725.04, AS PER PLAN	INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 144 STRAND	INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 24 STRAND	INTERCONNECT CABLE, MISC.: FIBER OPTIC DROP CABLE, 24 STRAND	INTERCONNECT CABLE, MISC.: FIBER OPTIC FUSION SPLICE	INTERCONNECT CABLE, MISC.: REMOVE EXISTING OVERHEAD INTERCONNECT	INTERCONNECT CABLE, MISC.: TERMINATION PANEL, 24 FIBER	INTERCONNECT, MISC.: SPLICE ENCLOSURE, CLAMSHELL, 288 SPLICE	MESSENGER WIRE, 7 STRAND, 1/4" DIAMETER WITH ACCESSORIES, AS PER PLAN	SIGNALIZATION, MISC.: CCTV COMPOSITE CABLE	SIGNALIZATION, MISC.: CCTV IP-CAMERA SYSTEM	CONTROLLER ITEM, MISC.: FIBER OPTIC ETHERNET TRANSCEIVER, SHORT RANGE	CONTROLLER ITEM, MISC.: LAYER 2 ETHERNET SWITCH	CONTROLLER UNIT, TYPE TS2/A2, AS PER PLAN				
			FROM	TO	FT	EACH	EACH	FT	FT	FT	EACH	FT	EACH	EACH	FT	FT	EACH	EACH	EACH	EACH				
SUMMIT ST. BETWEEN STA. 89+00 AND 100+00, INT 3189																							
432	IC-1	SUMMIT ST	89+00, 27' RT	95+49, 28' RT				659				649			659								
432	IC-5	SUMMIT ST	90+84, 26' RT					150															
432	IC-3	SUMMIT ST	93+23, 136' LT	93+69, 25' RT					180			177			180								
432	IC-4	SUMMIT ST	93+69, 25' RT	95+49, 28' RT					184														
432	IC-6	SUMMIT ST	95+49, 28' RT	95+49, 28' RT						70													
432	IC-2	SUMMIT ST	95+49, 28' RT	100+00, 27' RT				458				451			458								
432	SE A-1	SUMMIT ST	95+49, 28' RT					150	75	250	48			1									
432	TC-1	SUMMIT ST	95+49, 28' RT				1			20			2					2	1				
SUMMIT ST. BETWEEN STA. 100+00 AND 111+00, INT 3190																							
433	IC-1	SUMMIT ST	100+00, 27' RT	101+26, 27' RT				129				127			129								
433	IC-3	SUMMIT ST	101+26, 27' RT	101+87, 33' LT						117					117								
433	SE A-1	SUMMIT ST	101+26, 27' RT					150		125	24			1									
433	IC-2	SUMMIT ST	101+26, 27' RT	111+00, 30' RT				988				973			988								
433	EC-1	SUMMIT ST	101+26, 27' LT	101+48, 6' LT												30							
433	EC-2	SUMMIT ST	101+26, 27' LT			1																	
433	EC-3	SUMMIT ST	101+26, 27' LT	101+87, 33' LT												122							
433	CTV-1	SUMMIT ST	101+48, 6' LT														1						
433	TC-1	SUMMIT ST	101+75, 33' LT							10			1			20		2	1	1			
433	IC-5	SUMMIT ST	101+75, 33' LT	101+87, 33' LT	12					12													
433	EC-5	SUMMIT ST	101+75, 33' LT	101+87, 33' LT												24							
433	IC-4	SUMMIT ST	101+87, 33' LT							35													
433	EC-4	SUMMIT ST	101+87, 33' LT													70							
SUMMIT ST. BETWEEN STA. 111+00 AND 122+00, INT 3191																							
434	IC-1	SUMMIT ST	111+00, 30' RT	116+28, 30' RT				536				528			536								
434	IC-5	SUMMIT ST	112+49, 30' RT					150															
434	IC-2	SUMMIT ST	116+28, 30' RT	116+76, 41' RT				51							51								
434	IC-3	SUMMIT ST	116+76, 41' RT	117+40, 30' RT				66							66								
434	SE A-1	SUMMIT ST	116+76, 41' RT					150		125	24			1									
434	IC-6	SUMMIT ST	116+76, 41' RT	116+76, 41' RT			1			35													
434	TC-1	SUMMIT ST	116+76, 41' RT							10			1					2	1				
434	IC-4	SUMMIT ST	117+20, 128' LT	117+40, 30' RT				165				163			165								



FOURTH ST BETWEEN STATION 39+00 AND 46+00



DETAIL - INT 3169

0 20 40
HORIZONTAL
SCALE IN FEET

NOTES:

1. SEE SHEET 439 FOR QUANTITIES.
2. SEE SHEETS 619 & 721 FOR COMMUNICATION DETAILS.

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CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☒ POWER
- ☒ LIGHTING



REFER TO SHEET 317 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

0 40 80
HORIZONTAL
SCALE IN FEET

CIP: 540007–100012
PID NUMBER: 99733

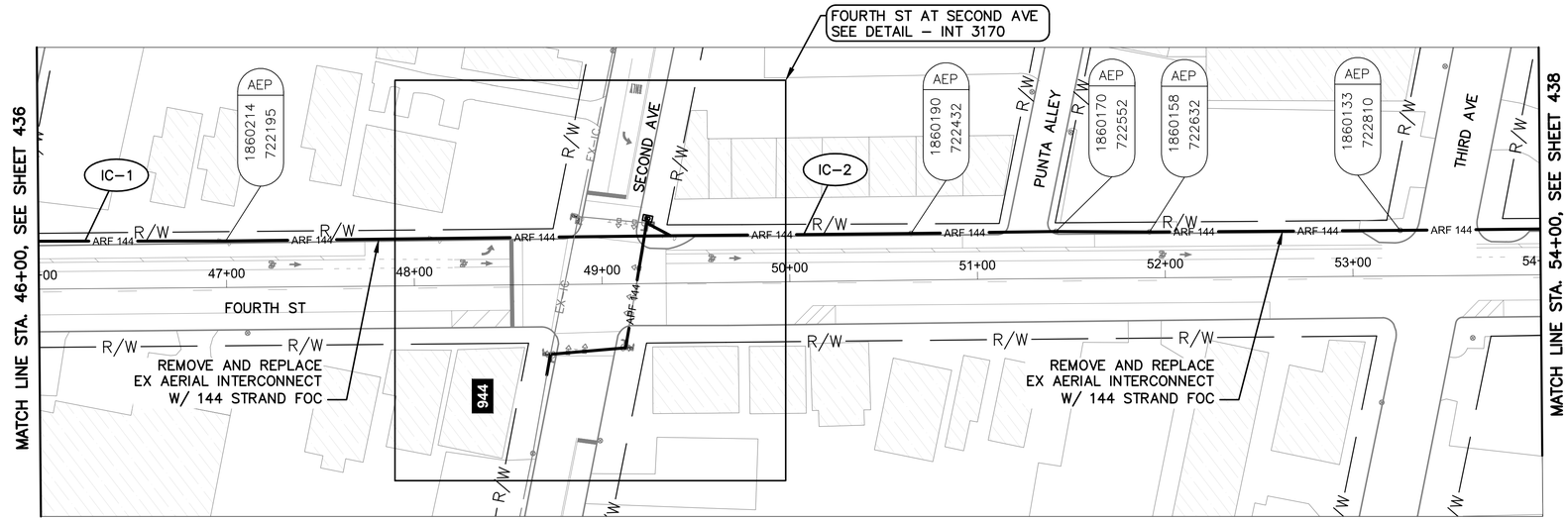
INTERCONNECT PLAN
FOURTH ST BETWEEN STA. 39+00 AND 46+00, INT 3169

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

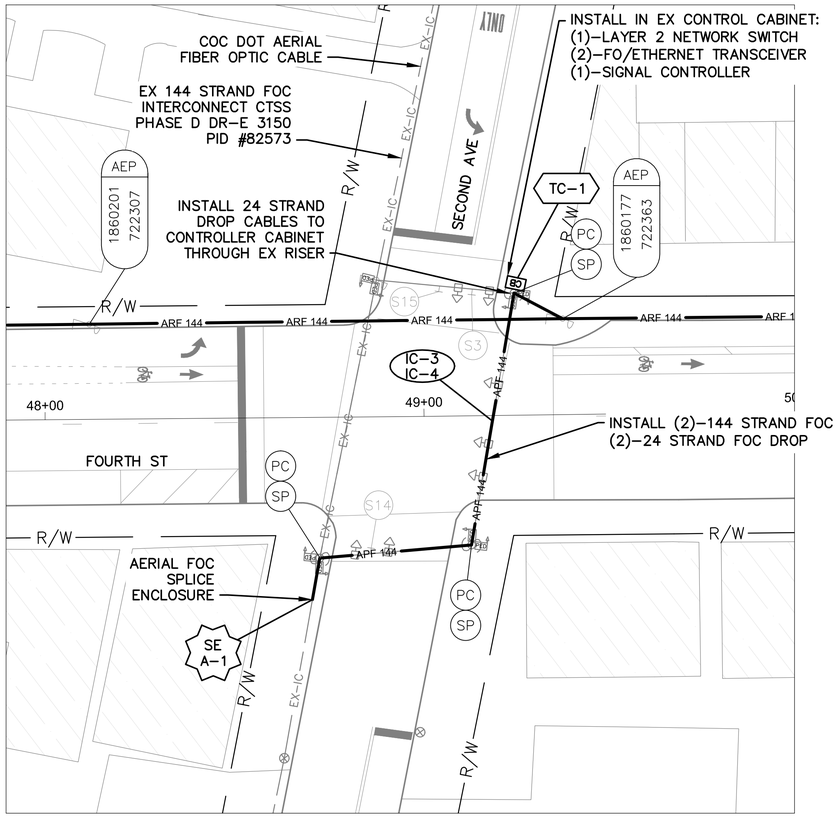
436
915

3378-E

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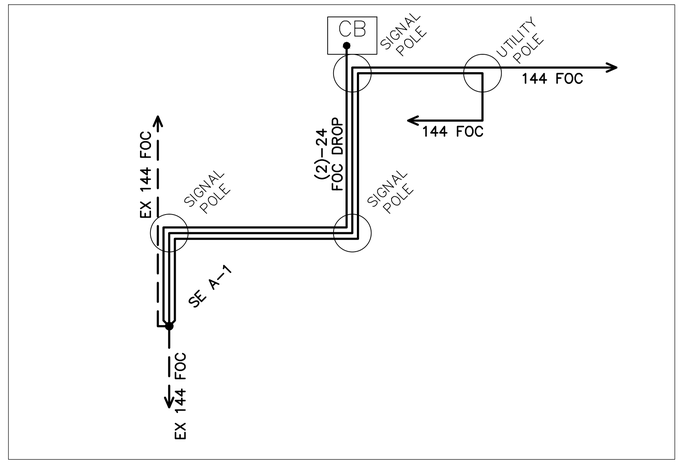


FOURTH ST BETWEEN STATION 46+00 AND 54+00



DETAIL - INT 3170

0 20 40
HORIZONTAL
SCALE IN FEET



CABLE SCHEMATIC - INT 3170

NOT TO SCALE

NOTES:

1. SEE SHEET 439 FOR QUANTITIES.
2. SEE SHEETS 619 & 722 FOR COMMUNICATION DETAILS.

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UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☒ POWER
- ☒ LIGHTING



REFER TO SHEET 317 FOR
INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

0 40 80
HORIZONTAL
SCALE IN FEET

CIP: 540007–100012
PID NUMBER: 99733

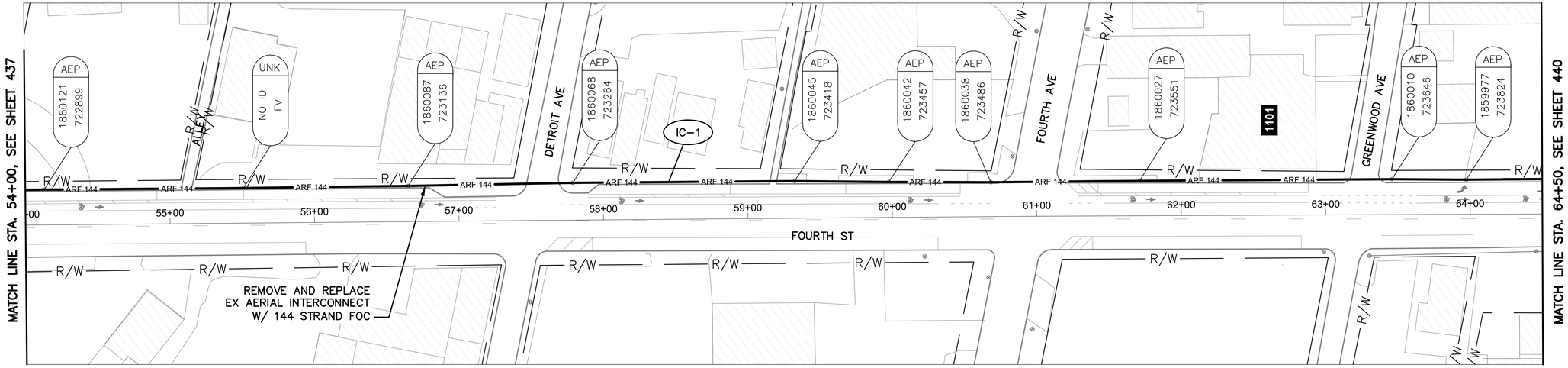
INTERCONNECT PLAN
FOURTH ST BETWEEN STA. 46+00 AND 54+00, INT 3170

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

3378-E

437
915

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FOURTH ST BETWEEN STATION 54+00 AND 64+50

NOTES:

1. SEE SHEET 439 FOR QUANTITIES.
2. SEE SHEETS 619 FOR COMMUNICATION DETAILS.

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CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☒ POWER
- ☒ LIGHTING



REFER TO SHEET 317 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

3378-E

HORIZONTAL SCALE IN FEET
0 40 80

CIP: 540007-100012
PID NUMBER: 99733

INTERCONNECT PLAN
FOURTH ST BETWEEN STA. 54+00 AND 64+50

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

438
915

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ESTIMATED QUANTITIES

SHEET NO.	REFERENCE NO.	LOCATION	STATION		632	632	632	632	632	632	632	632	632	633	633	633									
					CONDUIT RISER, 2", 725.04, AS PER PLAN	INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 144 STRAND	INTERCONNECT CABLE, MISC.: FIBER OPTIC DROP CABLE, 24 STRAND	INTERCONNECT CABLE, MISC.: FIBER OPTIC FUSION SPLICE	INTERCONNECT CABLE, MISC.: REMOVE EXISTING OVERHEAD INTERCONNECT	INTERCONNECT CABLE, MISC.: TERMINATION PANEL, 24 FIBER	INTERCONNECT, MISC.: SPLICE ENCLOSURE, CLAMSHELL, 288 SPLICE	INTERCONNECT, MISC.: SPLICE ENCLOSURE, DOME, 800 SPLICE	MESSENGER WIRE, 7 STRAND, 1/4" DIAMETER WITH ACCESSORIES, AS PER PLAN	CONTROLLER ITEM, MISC.: FIBER OPTIC ETHERNET TRANSCEIVER, SHORT RANGE	CONTROLLER ITEM, MISC.: LAYER 2 ETHERNET SWITCH	CONTROLLER UNIT, TYPE TS2/A2, AS PER PLAN								
			FROM	TO	EACH	FT	FT	EACH	FT	EACH	EACH	EACH	FT	EACH	EACH	EACH								
FOURTH ST. BETWEEN STA. 39+00 AND 46+00, INT 3169																								
436	SE A-1	FOURTH ST	42+86, 24' LT			75	125	12			1													
436	IC-2	FOURTH ST	42+86, 24' LT	42+86, 24' LT	1		35																	
436	TC-1	FOURTH ST	42+86, 24' LT				10			1				2	1	1								
436	IC-1	FOURTH ST	42+86, 24' LT	46+00, 26' LT		318			313				318											
FOURTH ST. BETWEEN STA. 46+00 AND 54+00, INT 3170																								
437	IC-1	FOURTH ST	46+00, 26' LT	49+36, 25' LT		342			337				342											
437	SE A-1	FOURTH ST	48+72, 37' RT			150	250	312				1												
437	IC-3	FOURTH ST	48+72, 37' RT	49+36, 25' LT		248							124											
437	IC-4	FOURTH ST	48+72, 37' RT	49+24, 32' LT			220																	
437	TC-1	FOURTH ST	49+24, 32' LT				90			2				2	1	1								
437	IC-2	FOURTH ST	49+36, 25' LT	54+00, 24' LT		470			463				470											
FOURTH ST. BETWEEN STA. 54+00 AND 64+50																								
438	IC-1	FOURTH ST	54+00, 24' LT	64+50, 24' LT		1,066			1,050				1,066											
SHEET TOTAL					1	2,669	730	324	2,163	3	1	1	2,320	4	2	2	-	-	-	-	-	-	-	-

AERIAL SAG: 1.5% AERIAL SAG IS INCLUDED IN THE QUANTITIES FOR ANY AERIAL FIBER OR CABLE ITEMS.

3378-E

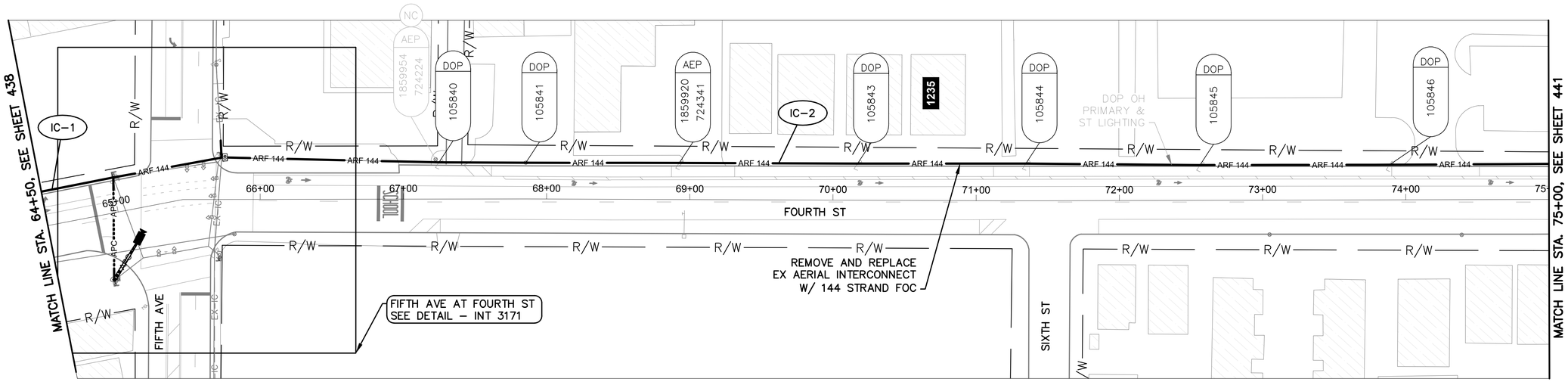
CIP: 540007–100012
PID NUMBER: 99733

FOURTH ST BETWEEN STA. 39+00 AND 64+50
INTS 3169, 3170

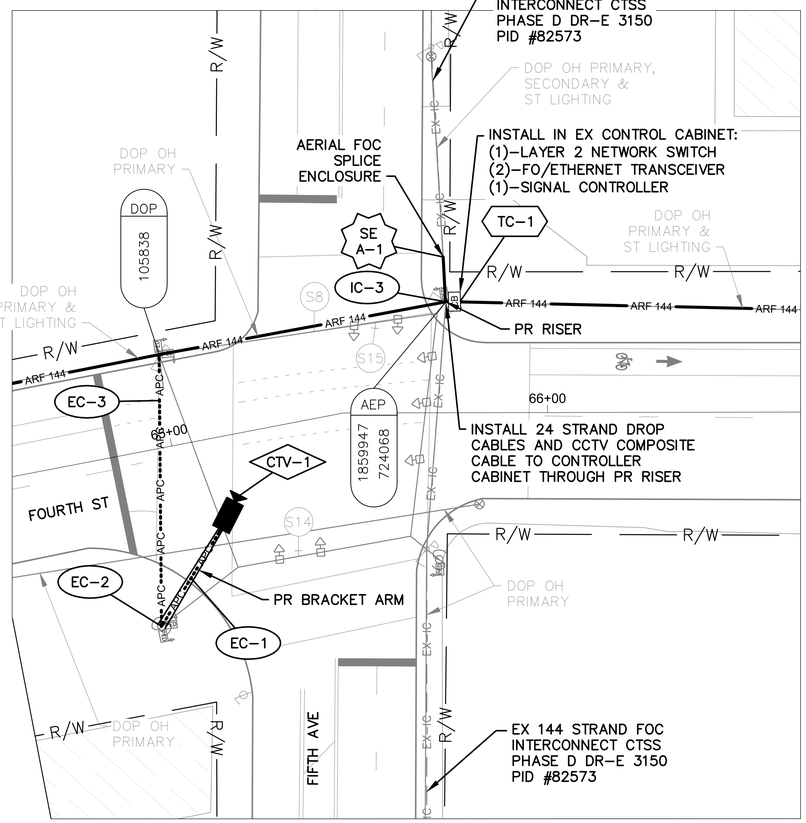
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

439
915

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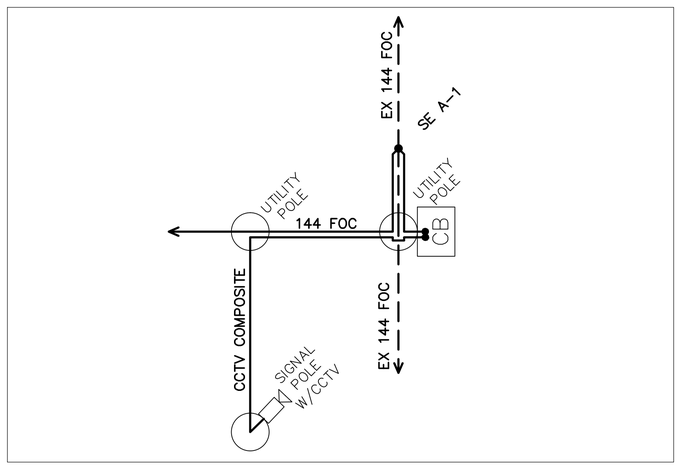


FOURTH ST BETWEEN STATION 64+50 AND 75+00



DETAIL - INT 3171

0 20 40
HORIZONTAL SCALE IN FEET



CABLE SCHEMATIC - INT 3171

NOT TO SCALE

NOTES:

1. SEE SHEET 445 FOR QUANTITIES.
2. SEE SHEETS 619 & 735 FOR COMMUNICATION DETAILS.

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- ☐ SEWER
- ☐ WATER
- ☒ POWER
- ☒ LIGHTING



REFER TO SHEET 317 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

0 40 80
HORIZONTAL SCALE IN FEET

CIP: 540007-100012
PID NUMBER: 99733

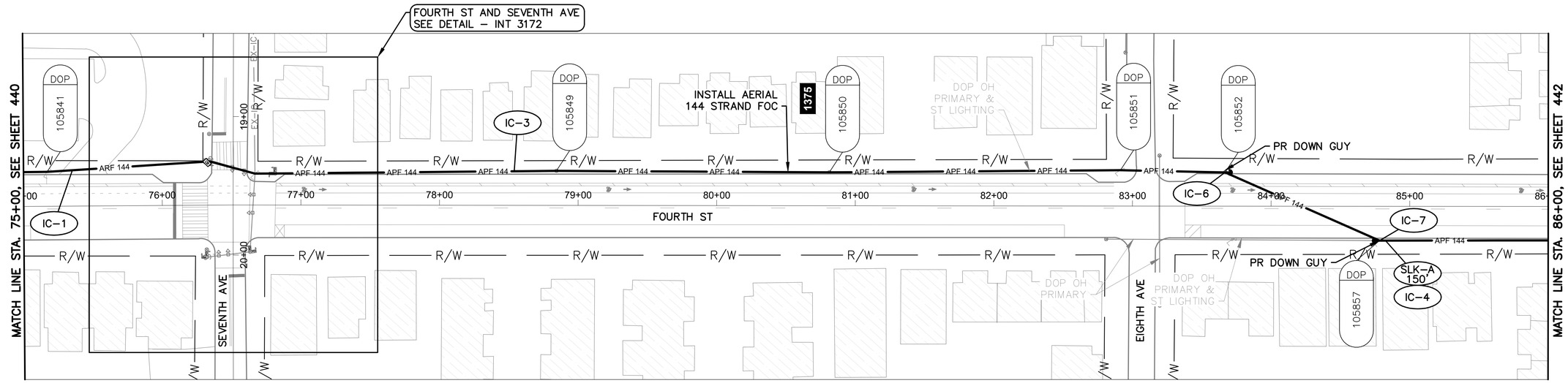
INTERCONNECT PLAN
FOURTH ST BETWEEN STA. 64+50 AND 75+00, INT 3171

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM (CTSS) PHASE E – FINAL SUBMITTAL

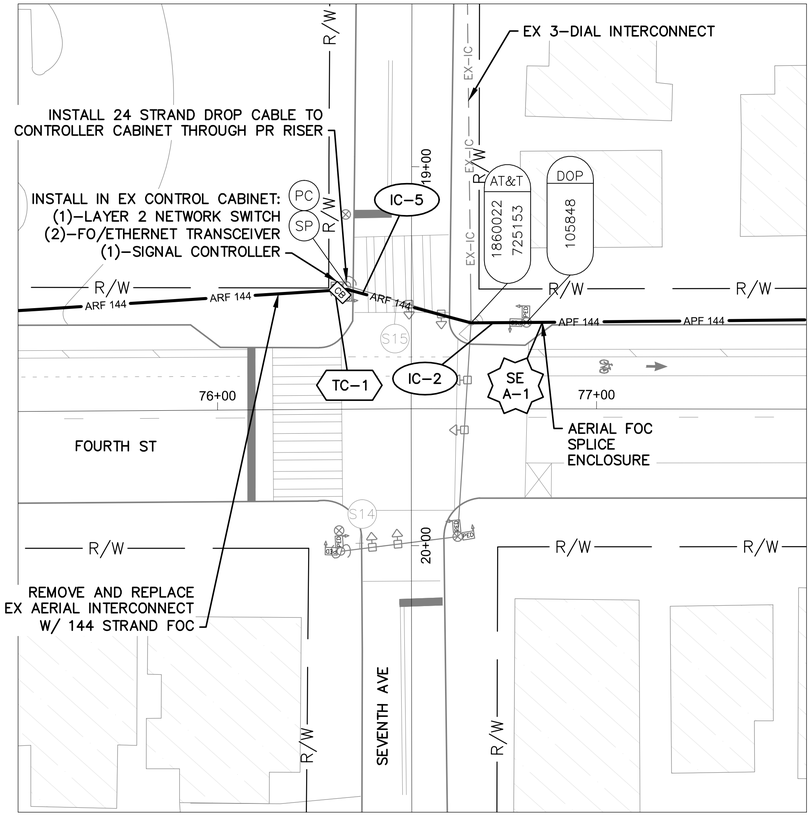
3378-E

440
915

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FOURTH ST BETWEEN STATION 75+00 AND 86+00



DETAIL - INT 3172

0 20 40
HORIZONTAL
SCALE IN FEET

NOTES:

1. SEE SHEET 445 FOR QUANTITIES.
2. SEE SHEETS 619 & 736 FOR COMMUNICATION DETAILS.

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- ☒ LIGHTING



REFER TO SHEET 317 FOR
INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

3378-E

0 40 80
HORIZONTAL
SCALE IN FEET

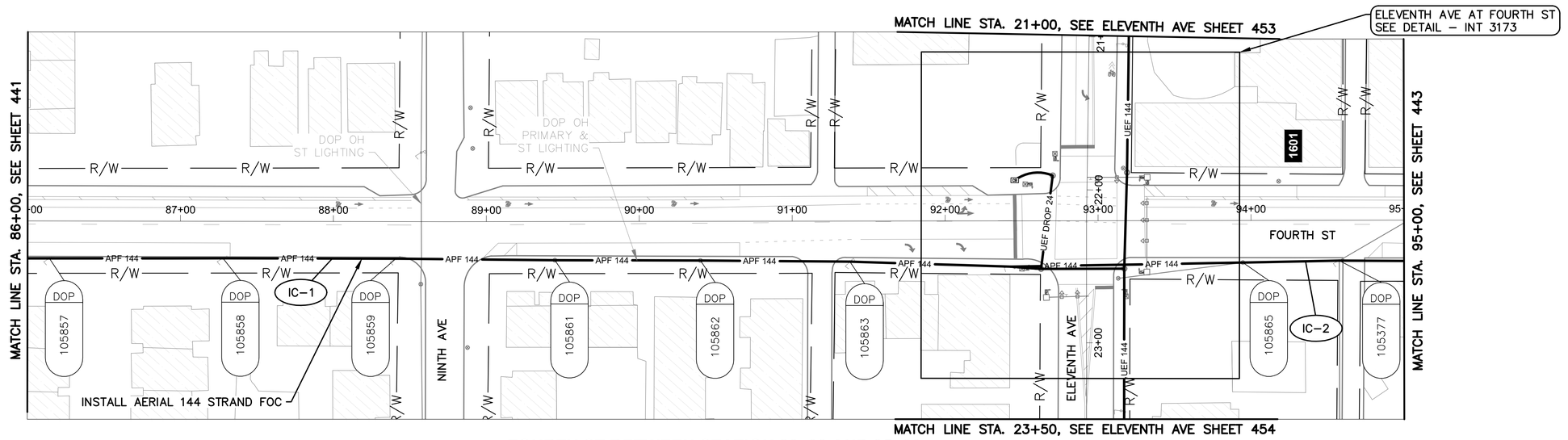
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PID NUMBER: 99733

INTERCONNECT PLAN
FOURTH ST BETWEEN STA. 75+00 AND 86+00, INT 3172

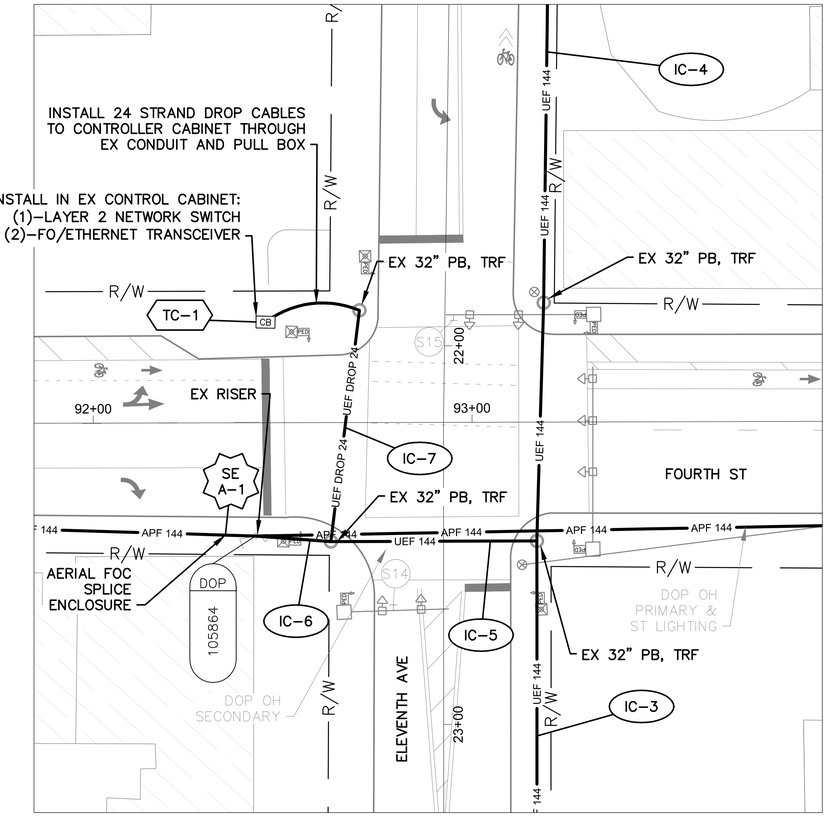
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

441
915

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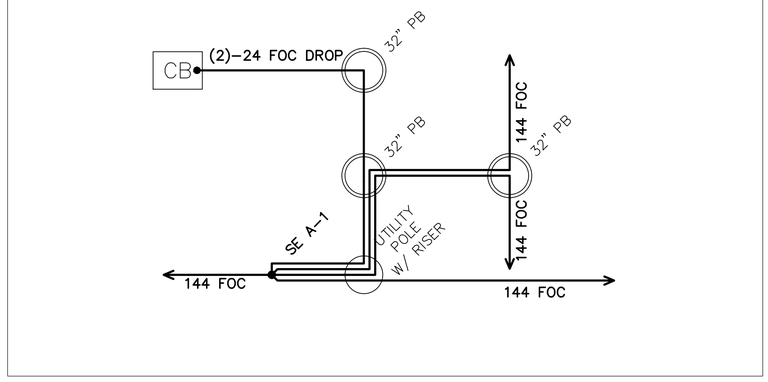


FOURTH ST BETWEEN STATION 86+00 AND 95+00



DETAIL - INT 3173

0 20 40
HORIZONTAL SCALE IN FEET



CABLE SCHEMATIC - INT 3173
NOT TO SCALE

NOTES:

1. SEE SHEET 445 FOR QUANTITIES.
2. SEE SHEETS 619 & 737 FOR COMMUNICATION DETAILS.

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- ☐ WATER
- ☒ POWER
- ☒ LIGHTING



REFER TO SHEET 317 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

0 40 80
HORIZONTAL SCALE IN FEET

CIP: 540007–100012
PID NUMBER: 99733

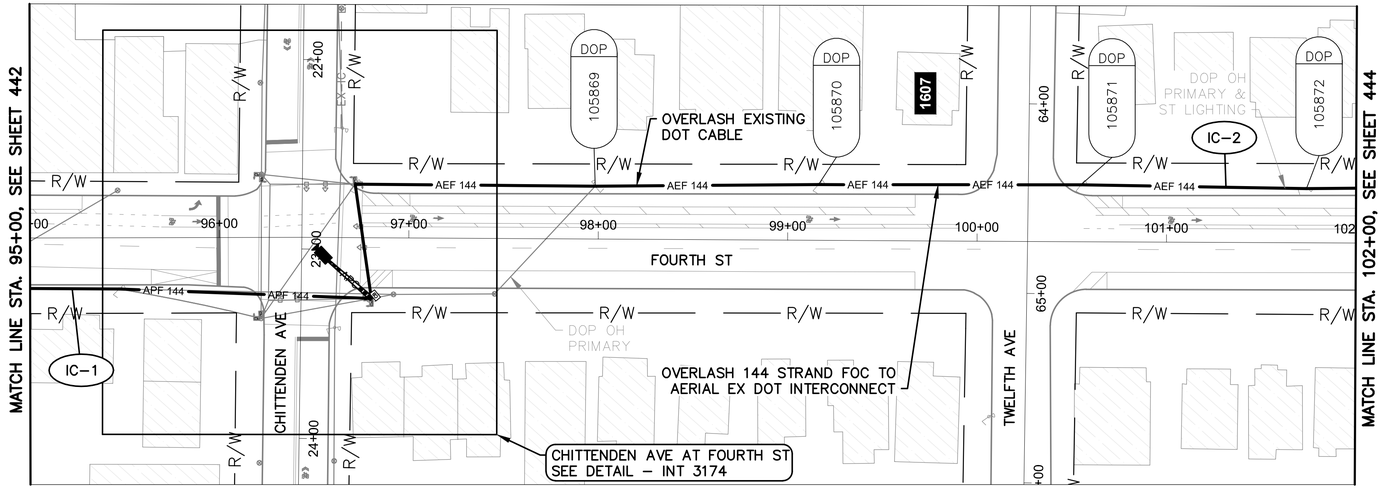
INTERCONNECT PLAN
FOURTH ST BETWEEN STA. 86+00 AND 95+00, INT 3173

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

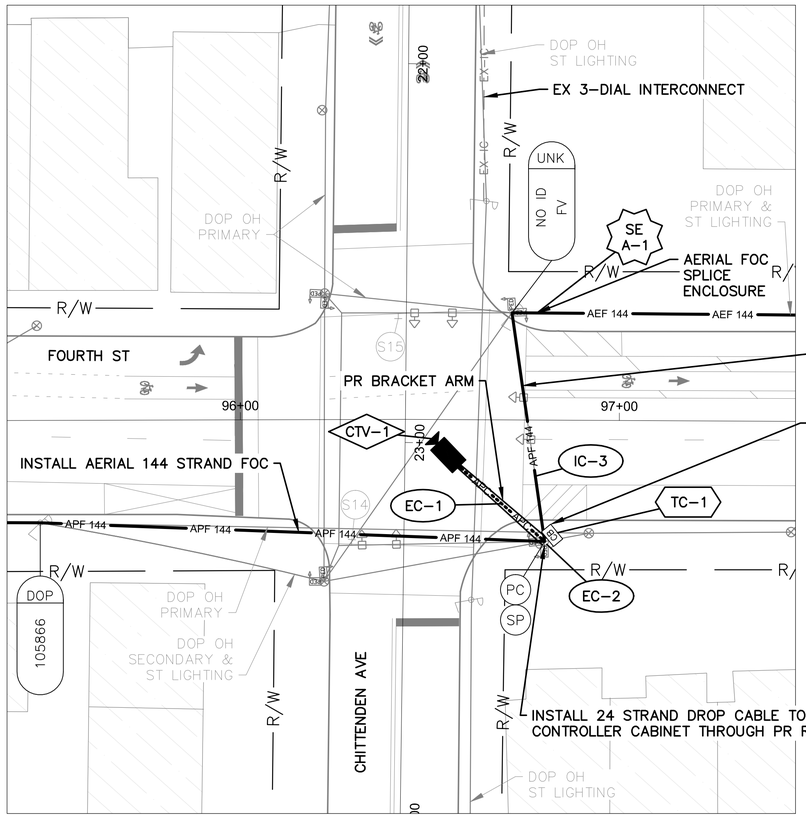
3378-E

442
915

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FOURTH ST BETWEEN STATION 95+00 AND 102+00



DETAIL - INT 3174

0 20 40
HORIZONTAL SCALE IN FEET

NOTES:

1. SEE SHEET 445 FOR QUANTITIES.
2. SEE SHEETS 619 & 738 FOR COMMUNICATION DETAILS.

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- ☒ POWER
- ☒ LIGHTING



REFER TO SHEET 317 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

0 40 80
HORIZONTAL SCALE IN FEET

CIP: 540007–100012
PID NUMBER: 99733

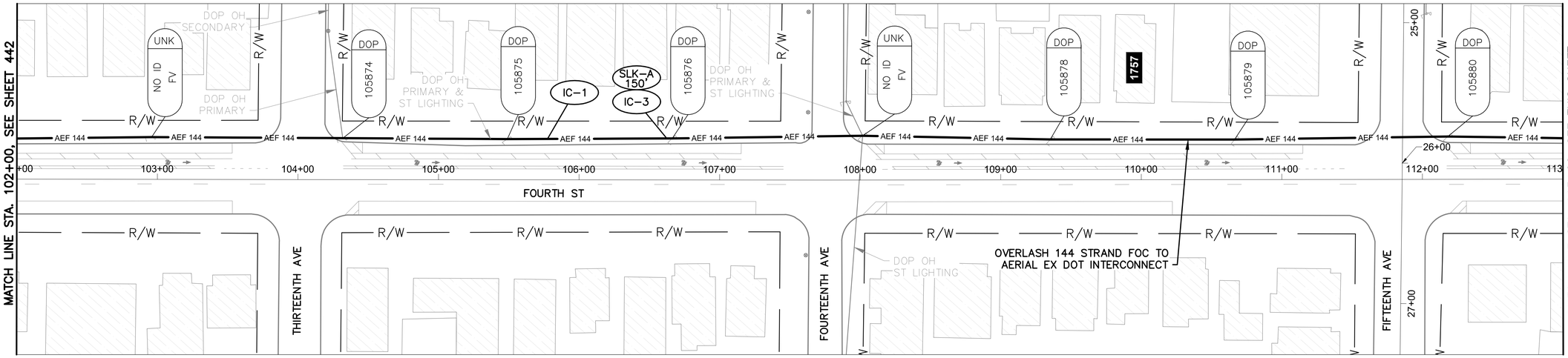
INTERCONNECT PLAN
FOURTH ST BETWEEN STA. 95+00 AND 102+00, INT 3174

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

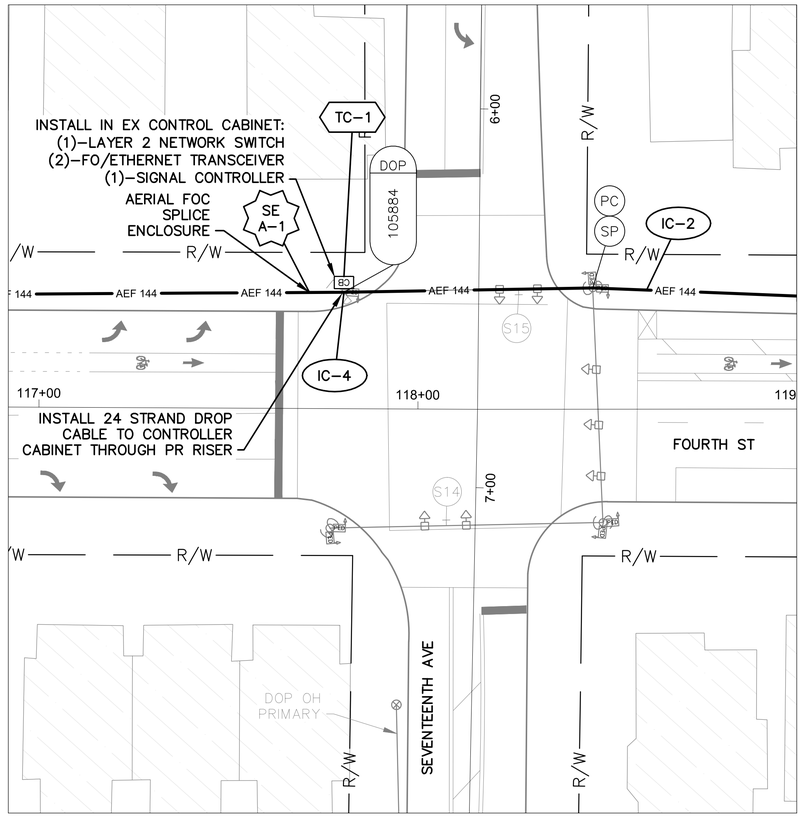
443
915

3378-E

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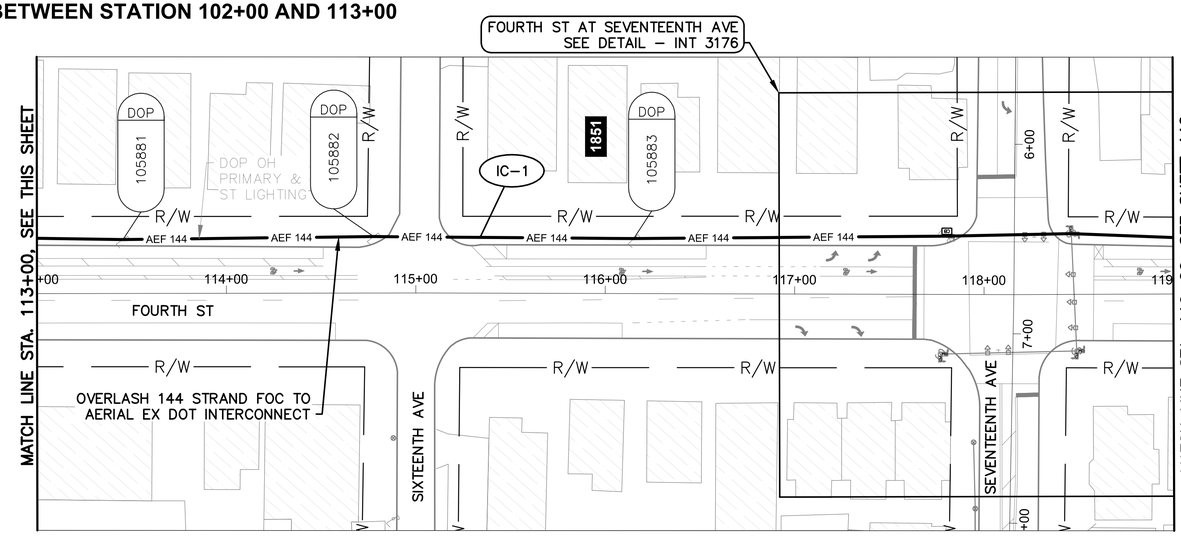


FOURTH ST BETWEEN STATION 102+00 AND 113+00



DETAIL - INT 3176

0 20 40
HORIZONTAL
SCALE IN FEET



FOURTH ST BETWEEN STATION 113+00 AND 119+00

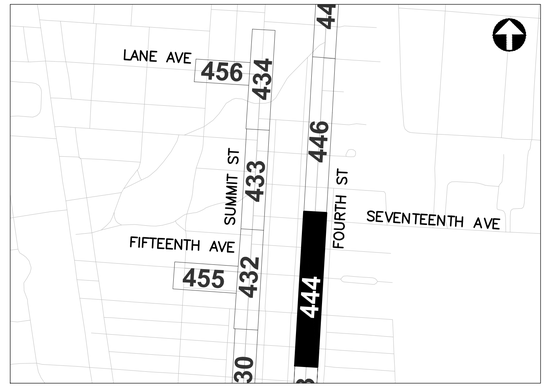
NOTES:

1. SEE SHEET 445 FOR QUANTITIES.
2. SEE SHEETS 620 & 739 FOR COMMUNICATION DETAILS.

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- ☒ LIGHTING



REFER TO SHEET 317 FOR
INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

3378-E

0 40 80
HORIZONTAL
SCALE IN FEET

CIP: 540007–100012
PID NUMBER: 99733

INTERCONNECT PLAN
FOURTH ST BETWEEN STA. 102+00 AND 113+00, INT 3176

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

444
915

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ESTIMATED QUANTITIES

SHEET NO.	REFERENCE NO.	LOCATION	STATION		202	625	632	632	632	632	632	632	632	632	632	632	632	632	633	633	633		
					EXISTING CONDUIT CLEANED, AS PER PLAN	BRACKET ARM, 30', AS PER PLAN	CONDUIT RISER, 2", 725.04, AS PER PLAN	DOWN GUY	INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 144 STRAND	INTERCONNECT CABLE, MISC.: FIBER OPTIC DROP CABLE, 24 STRAND	INTERCONNECT CABLE, MISC.: FIBER OPTIC FUSION SPLICE	INTERCONNECT CABLE, MISC.: OVERLASH TO EXISTING INTERCONNECT	INTERCONNECT CABLE, MISC.: REMOVE EXISTING OVERHEAD INTERCONNECT	INTERCONNECT CABLE, MISC.: TERMINATION PANEL, 24 FIBER	INTERCONNECT, MISC.: SPLICE ENCLOSURE, CLAMSHELL, 288 SPLICE	INTERCONNECT, MISC.: SPLICE ENCLOSURE, DOME, 800 SPLICE	MESSENGER WIRE, 7 STRAND, 1/4" DIAMETER WITH ACCESSORIES, AS PER PLAN	SIGNALIZATION, MISC.: CCTV COMPOSITE CABLE	SIGNALIZATION, MISC.: CCTV IP-CAMERA SYSTEM	CONTROLLER ITEM, MISC.: FIBER OPTIC ETHERNET TRANSCEIVER, SHORT RANGE	CONTROLLER ITEM, MISC.: LAYER 2 ETHERNET SWITCH	CONTROLLER UNIT, TYPE TS2/A2, AS PER PLAN		
			FROM	TO	FT	EACH	EACH	EACH	FT	FT	EACH	FT	FT	EACH	EACH	EACH	FT	FT	EACH	EACH	EACH	EACH		
FOURTH ST. BETWEEN STA. 64+50 AND 75+00, INT 3171																								
440	EC-2	FOURTH ST	64+88, 46' LT			1																		
440	EC-1	FOURTH ST	64+88, 46' LT	65+09, 24' RT														30						
440	EC-3	FOURTH ST	64+88, 46' LT	65+73, 29' LT													151	302						
440	CTV-1	FOURTH ST	65+09, 24' RT																1					
440	SE A-1	FOURTH ST	65+73, 29' LT						150	250	312					1								
440	IC-1	FOURTH ST	64+50, 24' LT	65+73, 29' LT					125				123				125							
440	IC-2	FOURTH ST	65+73, 29' LT	75+00, 25' LT					941				927				941							
440	IC-3	FOURTH ST	65+73, 29' LT				1			70														
440	TC-1	FOURTH ST	65+73, 29' LT							20				2				90		2	1	1		
FOURTH ST. BETWEEN STA. 75+00 AND 86+00, INT 3172																								
441	IC-1	FOURTH ST	75+00, 25' LT	76+66, 23' LT					170				167				170							
441	TC-1	FOURTH ST	76+34, 33' LT				1			45				1						2	1	1		
441	IC-5	FOURTH ST	76+34, 33' LT	76+81, 23' LT						49														
441	IC-2	FOURTH ST	76+66, 23' LT	76+81, 23' LT					15								15							
441	IC-3	FOURTH ST	76+81, 23' LT	86+00, 25' RT					958								958							
441	SE A-1	FOURTH ST	76+81, 23' LT						150	125	24				1									
441	IC-6	FOURTH ST	83+67, 24' LT					1																
441	IC-7	FOURTH ST	84+78, 25' RT					1																
441	IC-4	FOURTH ST	84+82, 25' RT						150															
FOURTH ST. BETWEEN STA. 86+00 AND 95+00, INT 3173																								
442	IC-1	FOURTH ST	86+00, 25' RT	92+42, 30' RT					653								653							
442	SE A-1	FOURTH ST	92+42, 30' RT						300	320	312					1								
442	IC-5	FOURTH ST	92+42, 30' RT	93+17, 31' RT	74				148															
442	IC-2	FOURTH ST	92+42, 30' RT	95+00, 27' RT					261								261							
442	IC-6	FOURTH ST	92+42, 30' RT	92+62, 31' RT						40														
442	TC-1	FOURTH ST	92+45, 27' LT							20				2						2	1			
442	IC-7	FOURTH ST	92+45, 27' LT	92+62, 31' RT	88					176														
442	IC-3	FOURTH ST	93+17, 31' RT	93+16, 130' RT	98				98															
442	IC-4	FOURTH ST	93+17, 31' RT	93+20, 121' LT	152				152															
FOURTH ST. BETWEEN STA. 95+00 AND 102+00, INT 3174																								
443	IC-1	FOURTH ST	95+00, 27' RT	96+72, 28' LT					245								245							
443	CTV-1	FOURTH ST	96+58, 13' RT																1					
443	EC-1	FOURTH ST	96+58, 13' RT	96+80, 32' RT		1												30						
443	IC-3	FOURTH ST	96+72, 28' LT	96+80, 32' RT						61														
443	IC-2	FOURTH ST	96+72, 28' LT	102+00, 29' LT					536			528												
443	SE A-1	FOURTH ST	96+72, 28' LT						150	125	24				1									
443	TC-1	FOURTH ST	96+80, 32' RT				1			45				1				20		2	1	1		
443	EC-2	FOURTH ST	96+80, 32' RT															70						
FOURTH ST. BETWEEN STA. 102+00 AND 119+00, INT 3176																								
444	IC-1	FOURTH ST	102+00, 29' LT	117+80, 31' LT					1,604			1,580												
444	IC-3	FOURTH ST	106+62, 30' LT						150															
444	SE A-1	FOURTH ST	117+80, 31' LT						150	125	24				1									
444	IC-4	FOURTH ST	117+80, 31' LT	117+80, 31' LT			1			35														
444	TC-1	FOURTH ST	117+80, 31' LT							10				1						2	1	1		
444	IC-2	FOURTH ST	117+80, 31' LT	119+00, 30' LT					122			120												
SHEET TOTAL					412	2	4	2	7,228	1,516	696	2,228	1,217	7	3	2	3,519	542	2	10	5	4	-	-

AERIAL SAG: 1.5% AERIAL SAG IS INCLUDED IN THE QUANTITIES FOR ANY AERIAL FIBER OR CABLE ITEMS.

CIP: 540007–100012
PID NUMBER: 99733

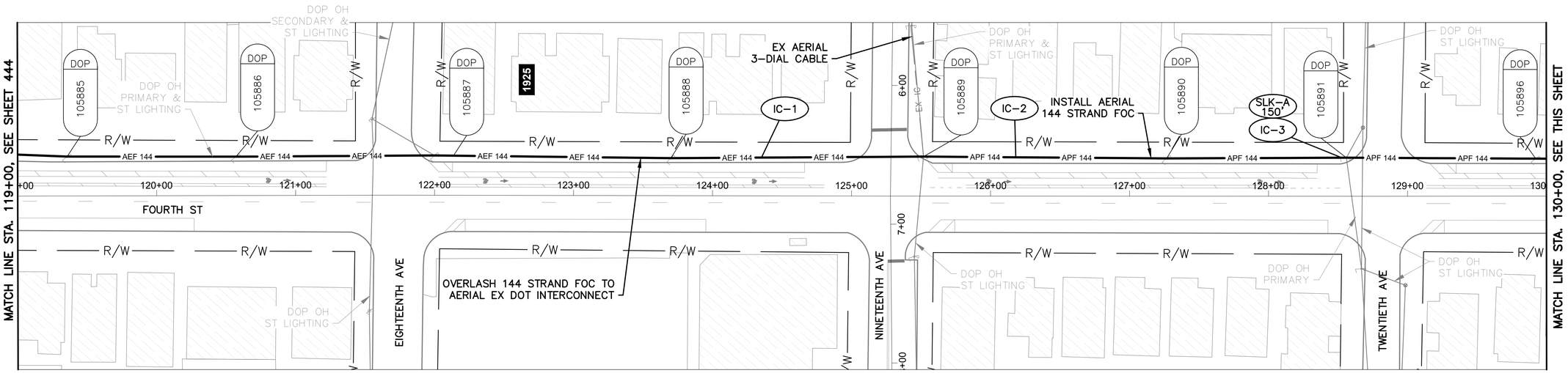
FOURTH ST BETWEEN STA. 64+50 & 119+00
INTS 3171, 3172, 3173, 3174, 3176

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

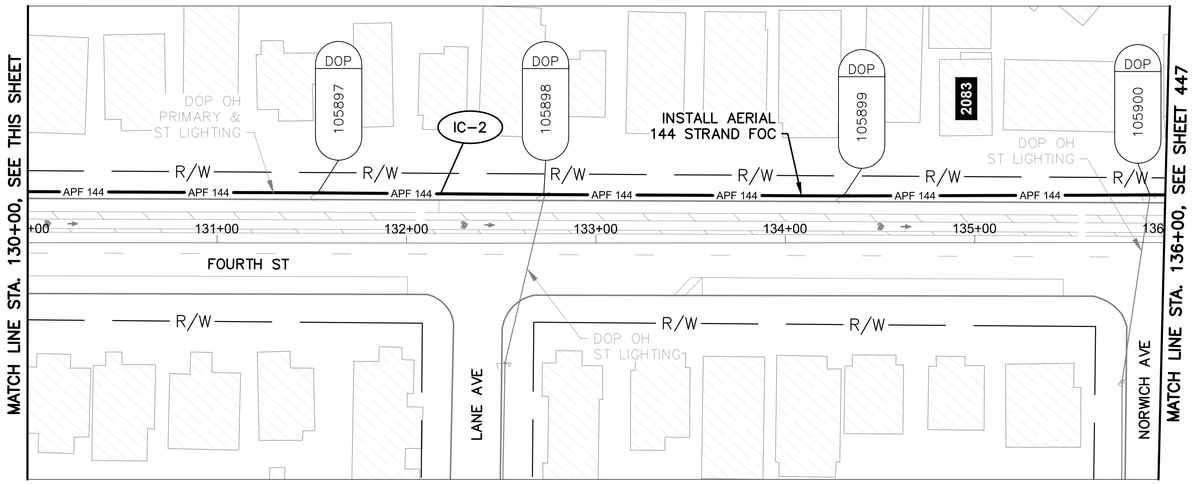
445
915

3378-E

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FOURTH ST BETWEEN STATION 119+00 AND 130+00



FOURTH ST BETWEEN STATION 130+00 AND 136+00

NOTES:

1. SEE SHEET 451 FOR QUANTITIES.
2. SEE SHEET 620 FOR COMMUNICATION DETAILS.

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CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☒ POWER
- ☒ LIGHTING



REFER TO SHEET 317 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

3378-E

HORIZONTAL SCALE IN FEET
0 40 80

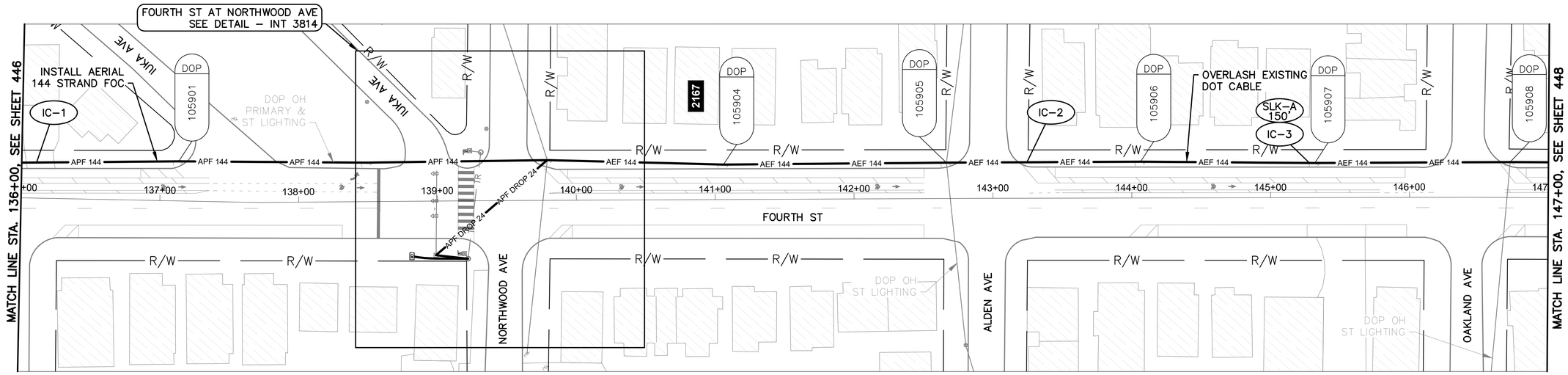
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PID NUMBER: 99733

INTERCONNECT PLAN
FOURTH ST BETWEEN STA. 119+00 AND 136+00

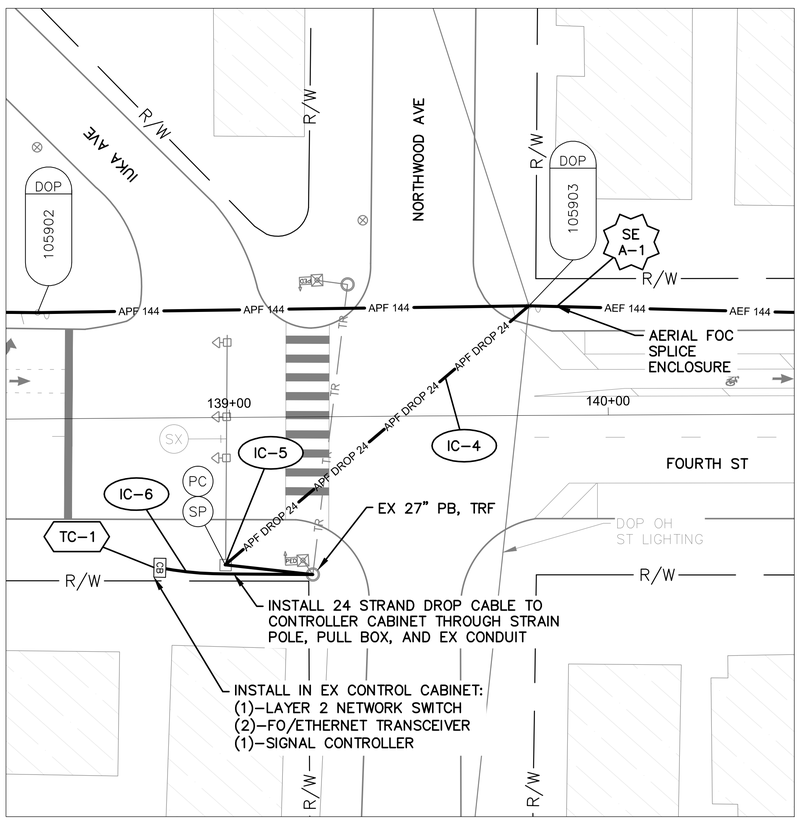
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

446
915

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FOURTH ST BETWEEN STATION 136+00 AND 147+00



DETAIL - INT 3814

0 20 40
HORIZONTAL
SCALE IN FEET

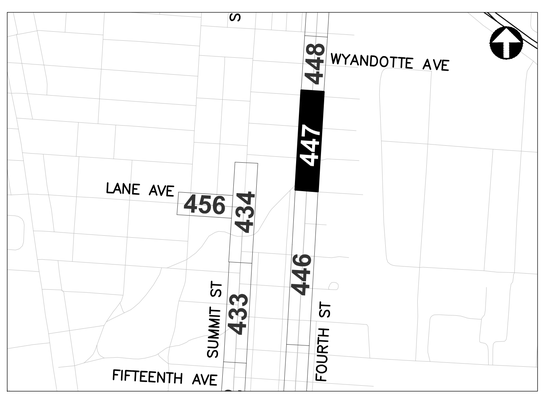
NOTES:

1. SEE SHEET 451 FOR QUANTITIES.
2. SEE SHEET 620 & 740 FOR COMMUNICATION DETAILS.

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- ☐ WATER
- ☒ POWER
- ☒ LIGHTING



REFER TO SHEET 317 FOR
INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

3378-E

0 40 80
HORIZONTAL
SCALE IN FEET

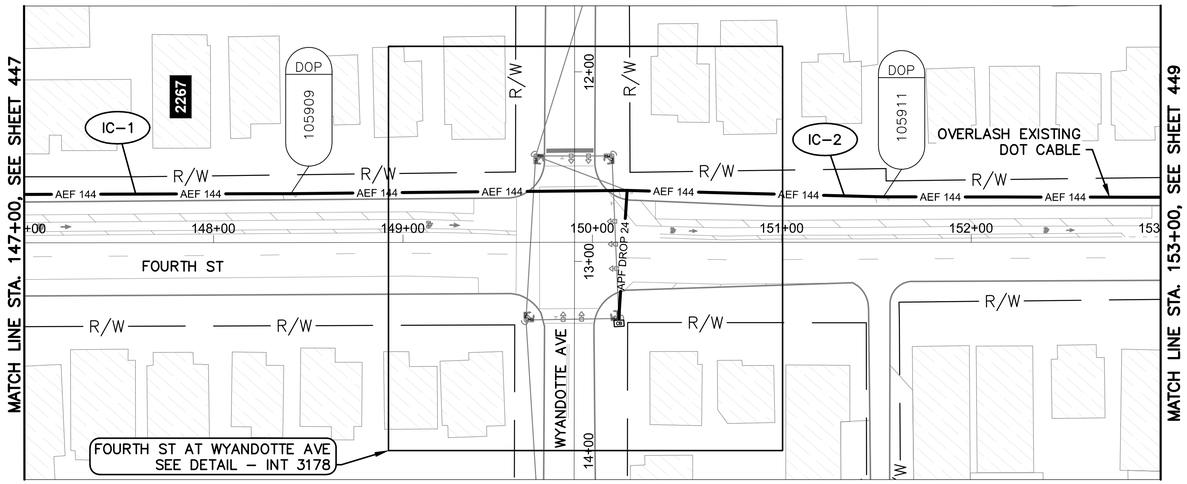
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PID NUMBER: 99733

INTERCONNECT PLAN
FOURTH ST BETWEEN STA. 136+00 AND 147+00, INT 3814

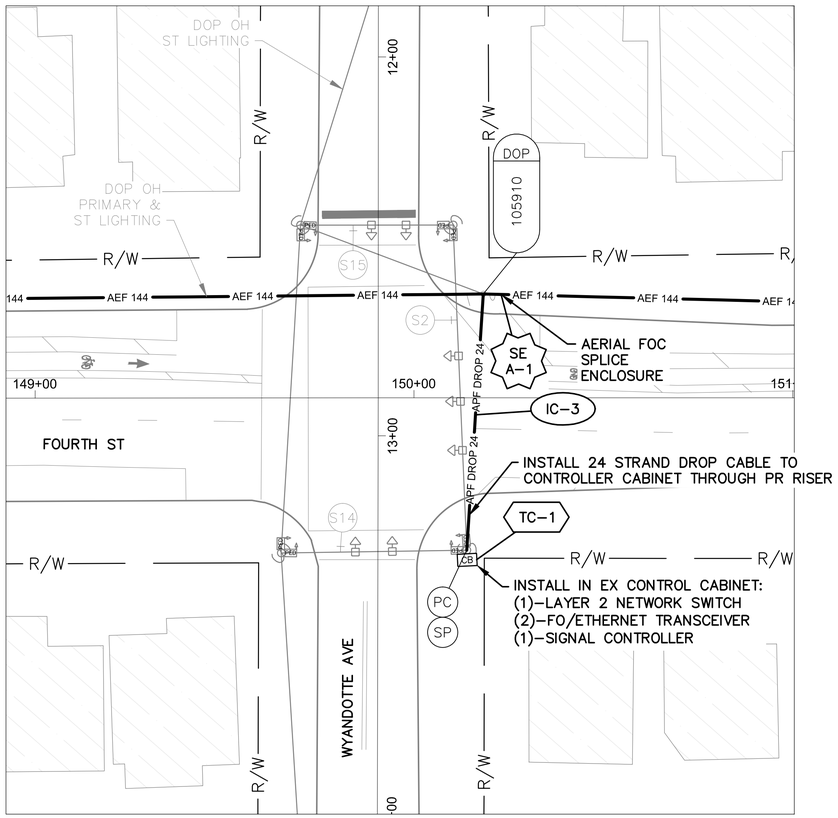
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

447
915

J:\Jobs\63721 ctss phase e\TECHPROD\Sheets\CTSS_PhE_Trunk4_FOURTH_INTERCONNECT.dwg ~ FOURTH–6A layout ~ last saved by: gburch 09/06/2018 02:31pm ~ printed 09/12/2018 02:29pm PSLTS: 1 LTS: 1 CAS: 1:1



FOURTH ST BETWEEN STATION 147+00 AND 153+00



DETAIL - INT 3178

0 20 40
HORIZONTAL SCALE IN FEET

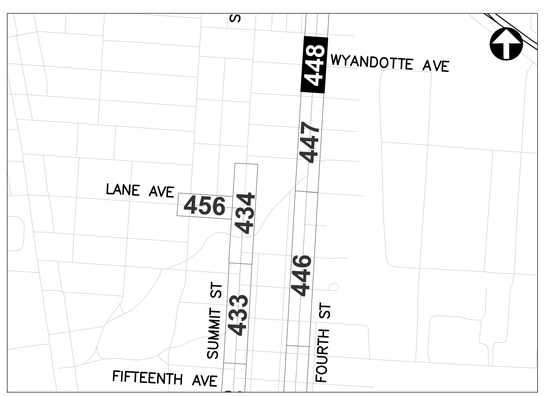
NOTES:

1. SEE SHEET 451 FOR QUANTITIES.
2. SEE SHEETS 620 & 741 FOR COMMUNICATION DETAILS.

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CITY OF COLUMBUS UTILITY LEGEND

☐	SEWER
☐	WATER
☒	POWER
☒	LIGHTING



REFER TO SHEET 317 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

0 40 80
HORIZONTAL SCALE IN FEET

CIP: 540007–100012
PID NUMBER: 99733

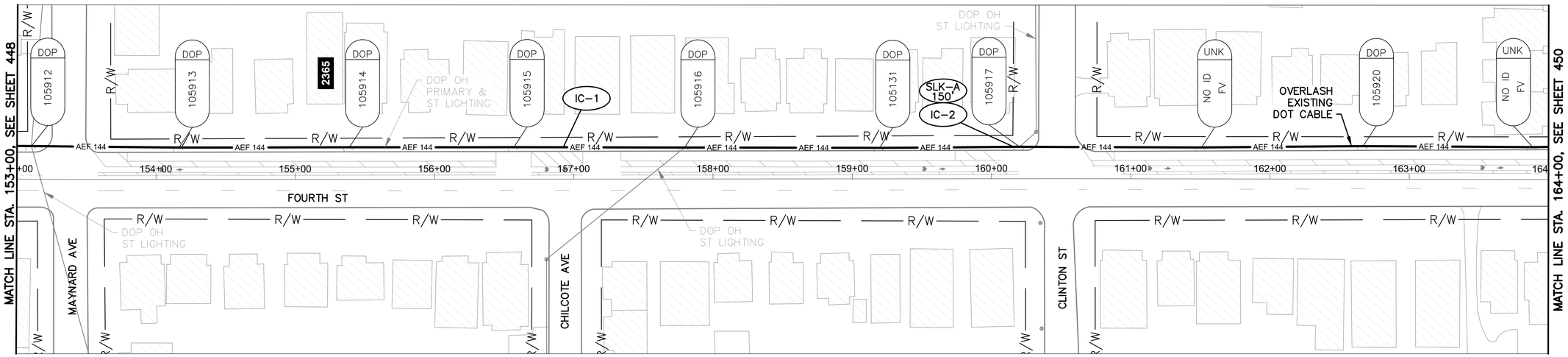
INTERCONNECT PLAN
FOURTH ST BETWEEN STA. 147+00 AND 153+00, INT 3178

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

448
915

3378-E

J:\Jobs\63721 CTSS Phase E\TECHPROD\Sheets\CTSS_PhE_Trunk4_FOURTH_INTERCONNECT.dwg ~ FOURTH–7 layout ~ last saved by: gburch 09/13/2018 03:43pm ~ printed 09/13/2018 05:53pm PSLTS: 1 LTS: 1 CAS: 1:1



FOURTH ST BETWEEN STATION 153+00 AND 164+00

NOTES:

1. SEE SHEET 451 FOR QUANTITIES.
2. SEE SHEET 620 FOR COMMUNICATION DETAILS.

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CITY OF COLUMBUS UTILITY LEGEND

☐	SEWER
☐	WATER
☒	POWER
☒	LIGHTING



REFER TO SHEET 317 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

3378-E

HORIZONTAL SCALE IN FEET
0 40 80

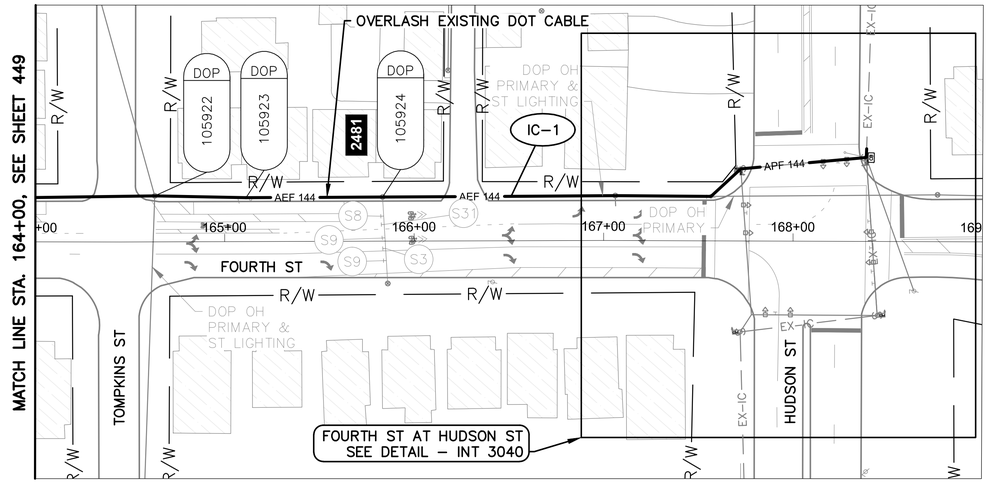
CIP: 540007-100012
PID NUMBER: 99733

INTERCONNECT PLAN
FOURTH ST BETWEEN STA. 153+00 AND 164+00

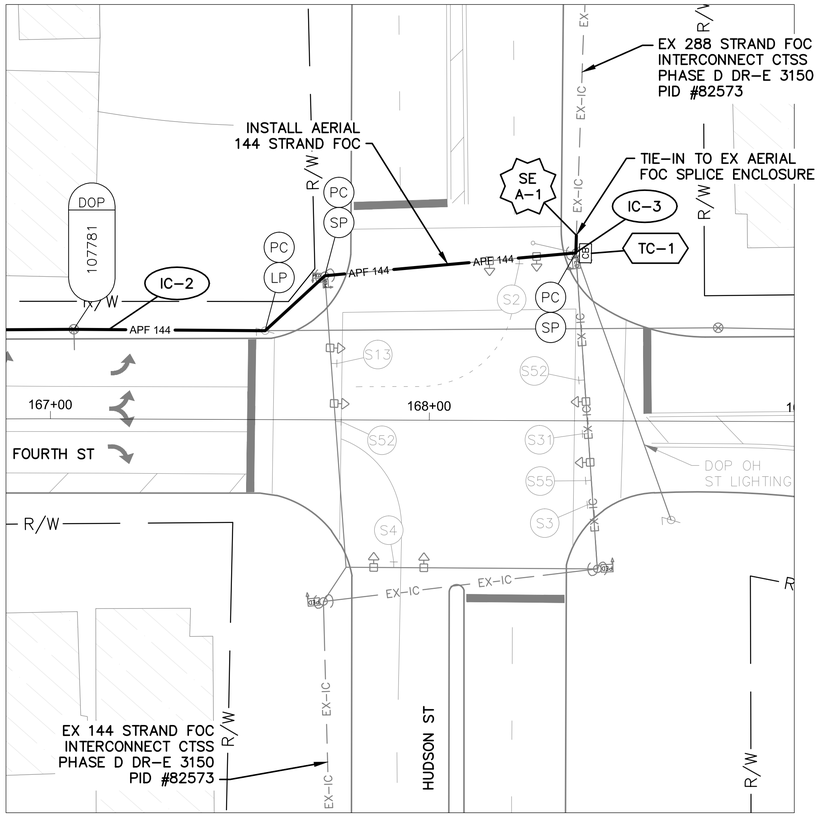
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

449
915

J:\Jobs\63721 ctss phase e\TECHPROD\Sheets\CTSS_PhE_Trunk4_FOURTH_INTERCONNECT.dwg ~ FOURTH-8 layout ~ last saved by: gburch 09/06/2018 02:31pm ~ printed 09/12/2018 02:33am PSLTS: 1 LTS: 1 CAS: 1:1

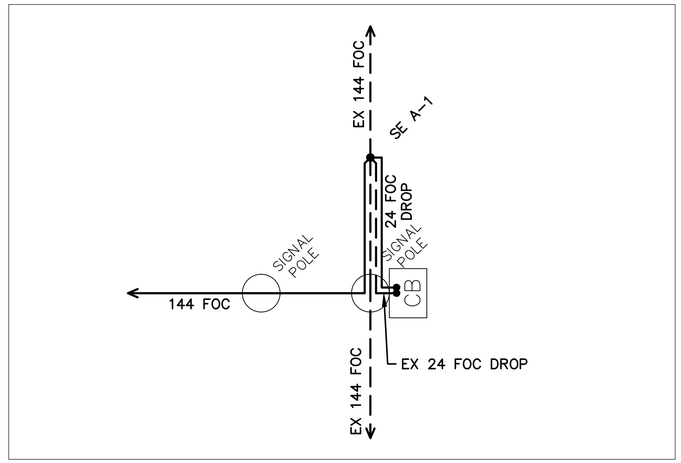


FOURTH ST BETWEEN STATION 164+00 AND 169+00



DETAIL - INT 3040

0 20 40
HORIZONTAL
SCALE IN FEET



CABLE SCHEMATIC - INT 3040
NOT TO SCALE

NOTES:

1. SEE SHEET 451 FOR QUANTITIES.
2. SEE SHEET 620 & 742 FOR COMMUNICATION DETAILS.

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CITY OF COLUMBUS UTILITY LEGEND
- ☐ SEWER
- ☐ WATER
- ☒ POWER
- ☒ LIGHTING



REFER TO SHEET 317 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

3378-E

0 40 80
HORIZONTAL
SCALE IN FEET

CIP: 540007-100012
PID NUMBER: 99733

INTERCONNECT PLAN
FOURTH ST BETWEEN STA. 164+00 AND 169+00, INT 3040

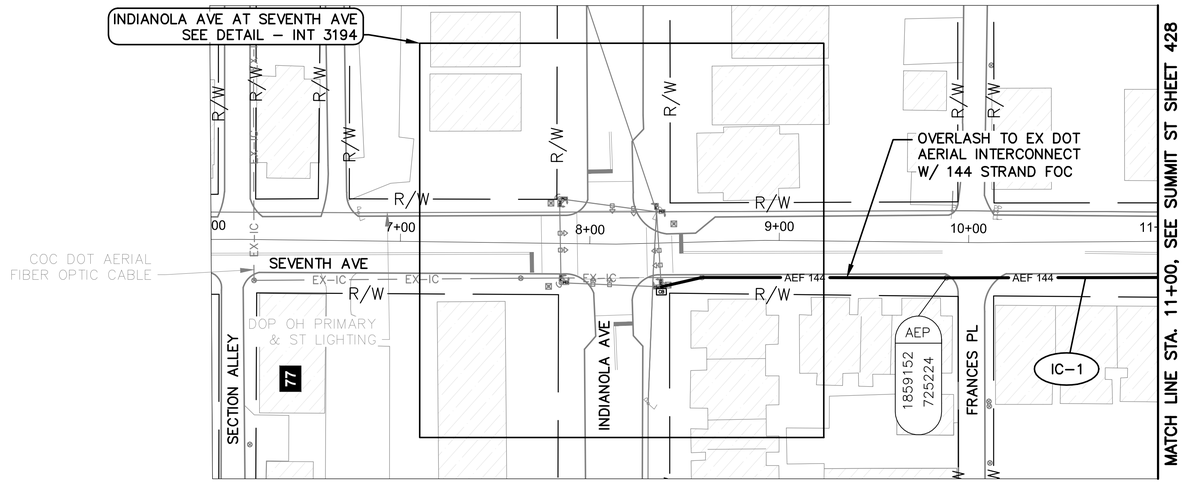
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

450
915

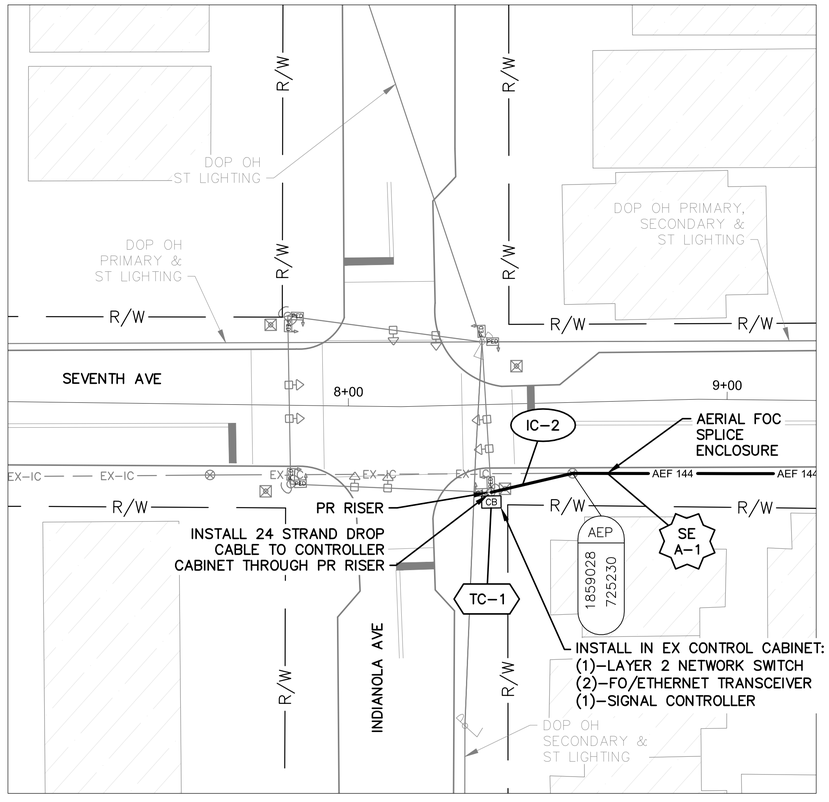
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ESTIMATED QUANTITIES

SHEET NO.	REFERENCE NO.	LOCATION	STATION		202	632	632	632	632	632	632	632	632	633	633	633								
					EXISTING CONDUIT CLEANED, AS PER PLAN	CONDUIT RISER, 2", 725.04, AS PER PLAN	INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 144 STRAND	INTERCONNECT CABLE, MISC.: FIBER OPTIC DROP CABLE, 24 STRAND	INTERCONNECT CABLE, MISC.: FIBER OPTIC FUSION SPLICE	INTERCONNECT CABLE, MISC.: OVERLASH TO EXISTING INTERCONNECT	INTERCONNECT CABLE, MISC.: TERMINATION PANEL, 24 FIBER	INTERCONNECT, MISC.: SPLICE ENCLOSURE, CLAMSHELL, 288 SPLICE	MESSENGER WIRE, 7 STRAND, 1/4" DIAMETER WITH ACCESSORIES, AS PER PLAN	CONTROLLER ITEM, MISC.: FIBER OPTIC ETHERNET TRANSCEIVER, SHORT RANGE	CONTROLLER ITEM, MISC.: LAYER 2 ETHERNET SWITCH	CONTROLLER UNIT, TYPE TS2/A2, AS PER PLAN							
			FROM	TO	FT	EACH	FT	FT	EACH	FT	EACH	EACH	FT	EACH	EACH	EACH								
FOURTH ST. BETWEEN STA. 119+00 AND 136+00																								
446	IC-1	FOURTH ST	119+00, 30' LT	125+52, 28' LT			662			662			662											
446	IC-2	FOURTH ST	125+52, 28' LT	136+00, 25' LT			1,065						1,065											
446	IC-3	FOURTH ST	128+52, 28' LT				150																	
FOURTH ST. BETWEEN STA. 136+00 AND 147+00, INT 3814																								
447	IC-1	FOURTH ST	136+00, 25' LT	139+79, 29' LT			385						385											
447	TC-1	FOURTH ST	138+81, 40' RT					10			1			2	1	1								
447	IC-6	FOURTH ST	138+81, 40' RT	138+98, 39' RT	64			64																
447	IC-4	FOURTH ST	138+98, 39' RT	139+79, 29' LT				107					107											
447	IC-5	FOURTH ST	138+98, 39' RT					35																
447	SE A-1	FOURTH ST	139+79, 29' LT				150	125	24			1												
447	IC-2	FOURTH ST	139+79, 29' LT	147+00, 26' LT			732			732														
447	IC-3	FOURTH ST	145+28, 25' LT				150																	
FOURTH ST. BETWEEN STA. 147+00 AND 153+00, INT 3178																								
448	IC-1	FOURTH ST	147+00, 26' LT	150+18, 27' LT			323			323														
448	IC-3	FOURTH ST	150+13, 40' RT	150+18, 27' LT				68					68											
448	TC-1	FOURTH ST	150+13, 40' RT			1		45			1			2	1	1								
448	IC-2	FOURTH ST	150+18, 27' LT	153+00, 24' LT			286			286														
448	SE A-1	FOURTH ST	150+18, 27' LT				150	125	24			1												
FOURTH ST. BETWEEN STA. 153+00 AND 164+00																								
449	IC-1	FOURTH ST	153+00, 24' LT	164+00, 23' LT			1,117			1,117														
449	IC-2	FOURTH ST	160+15, 23' LT				150																	
FOURTH ST. BETWEEN STA. 164+00 AND 169+00, INT 3040																								
450	IC-1	FOURTH ST	164+00, 23' LT	167+06, 23' LT			306			306														
450	IC-2	FOURTH ST	168+38, 44' LT	168+38, 44' LT			139						139											
450	SE A-1	FOURTH ST	168+38, 44' LT				75	125	204															
450	IC-3	FOURTH ST	168+38, 44' LT					35																
450	TC-1	FOURTH ST	168+38, 44' LT					10			1													



SEVENTH AVE BETWEEN STATION 6+00 AND 11+00



DETAIL - INT 3194

0 20 40

HORIZONTAL
SCALE IN FEET

NOTES:

1. SEE SHEET 457 FOR QUANTITIES.
2. SEE SHEETS 619 & 723 FOR COMMUNICATION DETAILS.

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CITY OF COLUMBUS
UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☒ POWER
- ☒ LIGHTING



REFER TO SHEET 317 FOR
INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

0 40 80

HORIZONTAL
SCALE IN FEET

CIP: 540007–100012
PID NUMBER: 99733

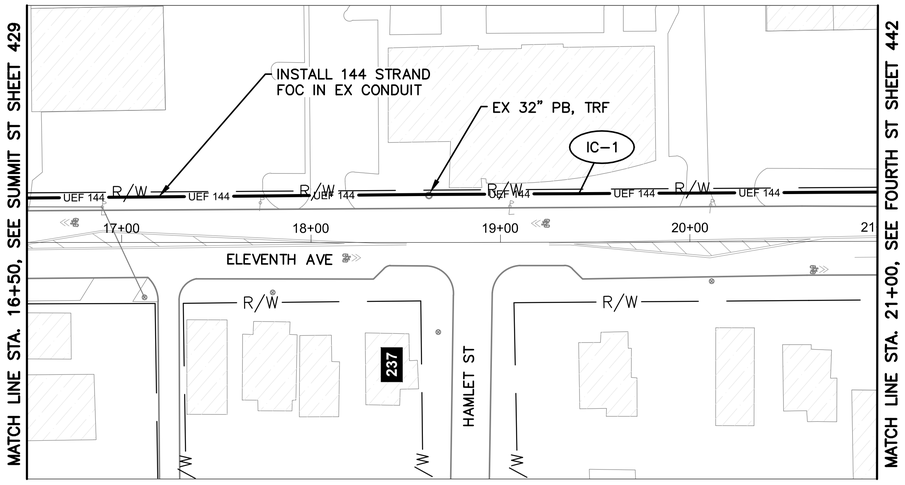
INTERCONNECT PLAN
SEVENTH AVE BETWEEN STA. 6+00 AND 11+00, INT 3194

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

452
915

3378-E

J:\Jobs\63721 ctss phase e\TECHPROD\Sheets\CTSS_PhE_Trunk4_SEVENTH_INTERCONNECT.dwg ~ SEVENTH–1 layout ~ last saved by: gburch 08/23/2018 10:30am ~ printed 09/12/2018 02:37am PSLTS: 1 LTS: 1 CAS: 1:1



ELEVENTH AVE BETWEEN STATION 16+50 AND 21+00

NOTES:

1. SEE SHEET 457 FOR QUANTITIES.
2. SEE SHEETS 619 & 734 FOR COMMUNICATION DETAILS.

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CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 317 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

3378-E

HORIZONTAL SCALE IN FEET
0 40 80

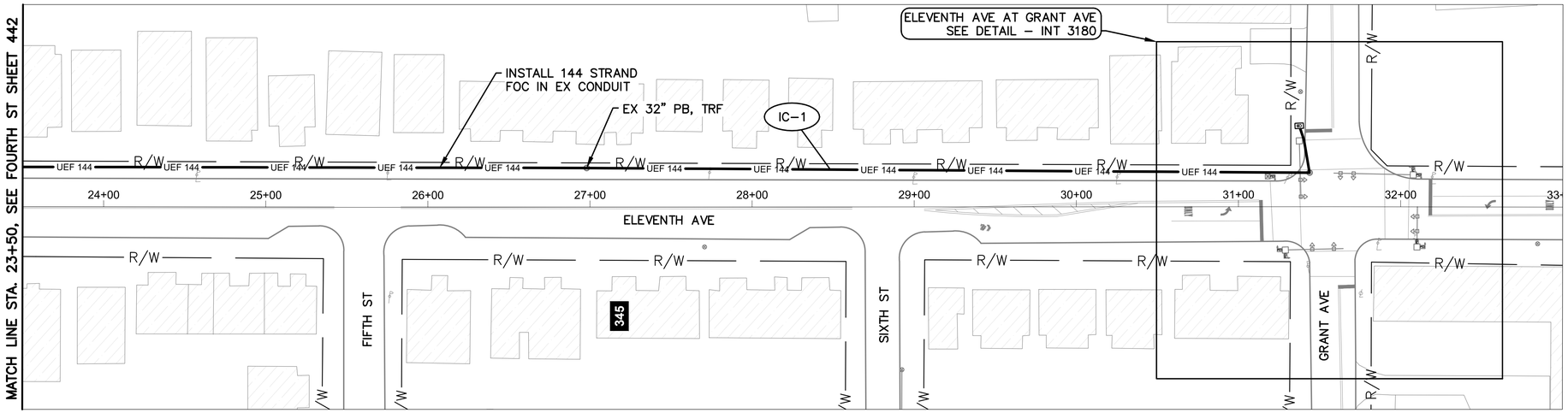
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PID NUMBER: 99733

INTERCONNECT PLAN
ELEVENTH AVE BETWEEN STA. 16+50 AND 21+00

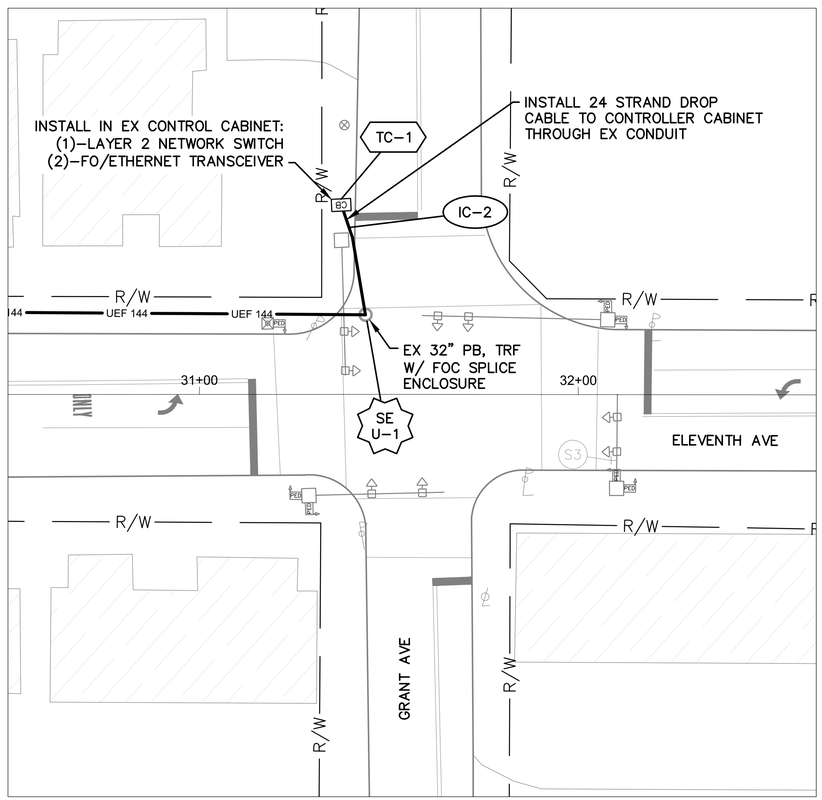
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

453
915

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ELEVENTH AVE BETWEEN STATION 23+50 AND 33+00



DETAIL - INT 3180

0 20 40
HORIZONTAL
SCALE IN FEET

NOTES:

1. SEE SHEET 457 FOR QUANTITIES.
2. SEE SHEETS 619 & 734 FOR COMMUNICATION DETAILS.

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CITY OF COLUMBUS
UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 317 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

0 40 80
HORIZONTAL
SCALE IN FEET

CIP: 540007–100012
PID NUMBER: 99733

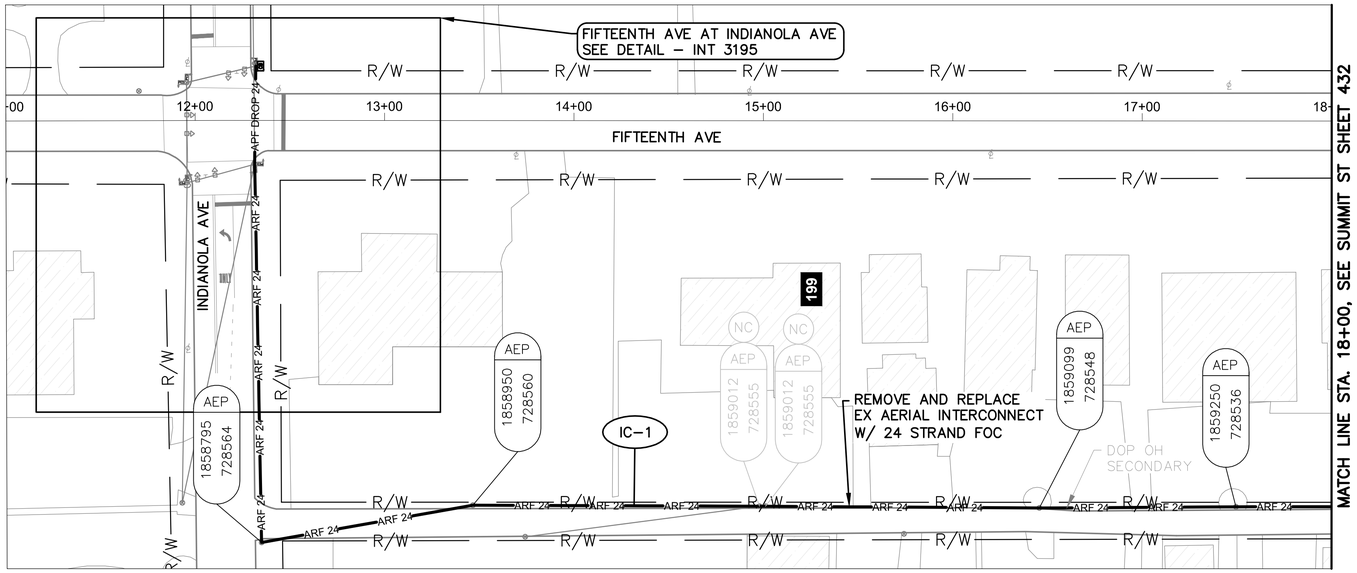
INTERCONNECT PLAN
ELEVENTH AVE BETWEEN STA. 23+50 AND 33+00, INT 3180

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

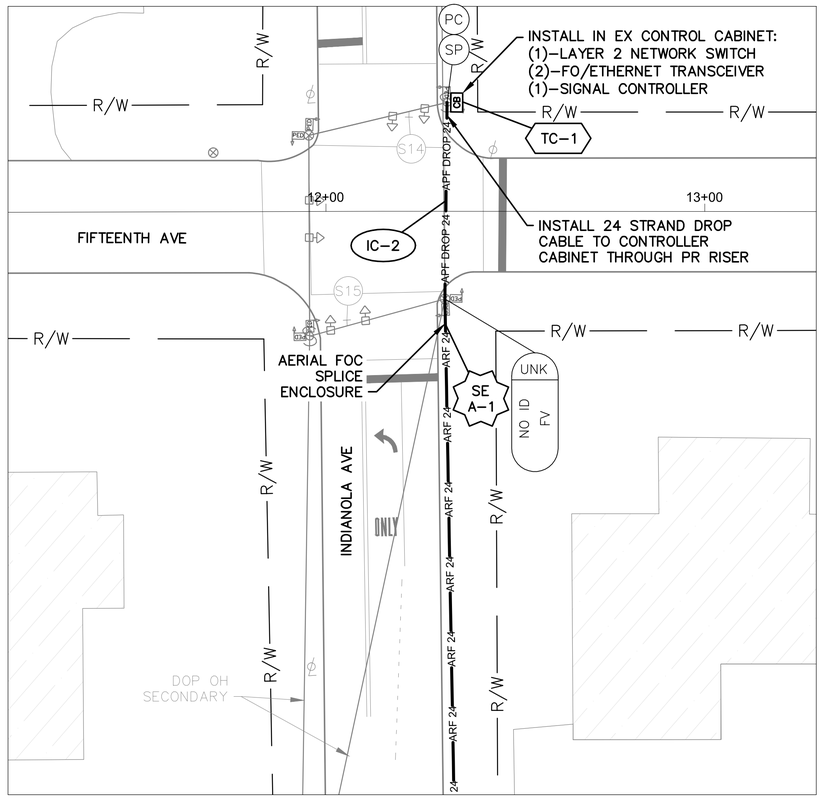
454
915

3378-E

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FIFTEENTH AVE BETWEEN STATION 11+00 AND 18+00



DETAIL - INT 3195

0 20 40
HORIZONTAL
SCALE IN FEET

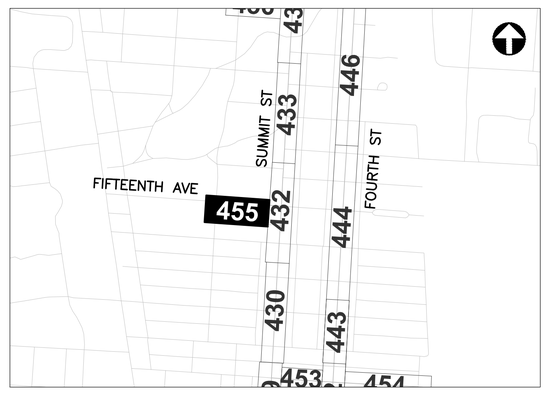
NOTES:

1. SEE SHEET 457 FOR QUANTITIES.
2. SEE SHEETS 620 & 733 FOR COMMUNICATION DETAILS.

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CITY OF COLUMBUS
UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☒ POWER
- ☐ LIGHTING



REFER TO SHEET 317 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

0 40 80
HORIZONTAL
SCALE IN FEET

CIP: 540007–100012
PID NUMBER: 99733

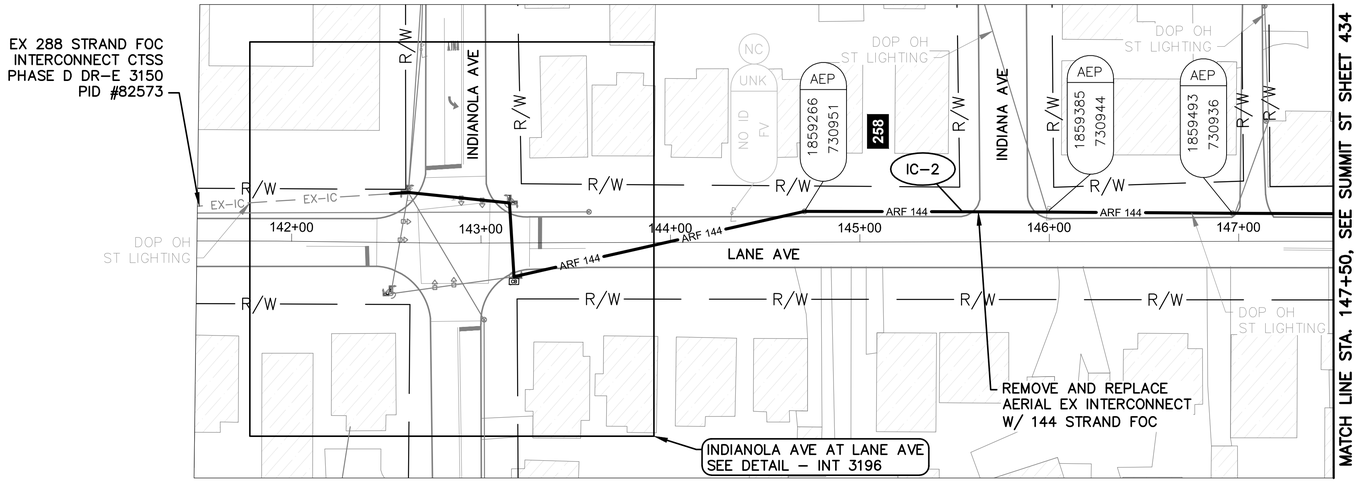
INTERCONNECT PLAN
FIFTEENTH AVE BETWEEN STA. 11+00 AND 18+00, INT 3195

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

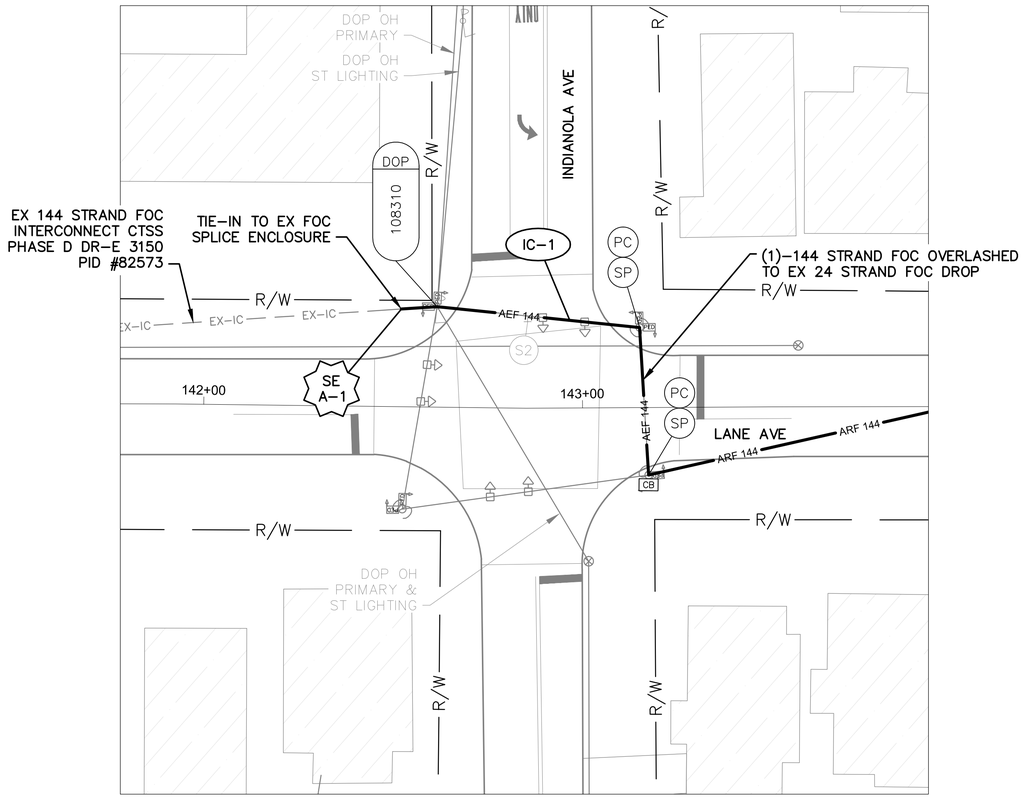
455
915

3378-E

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LANE AVE BETWEEN STATION 141+50 AND 147+50



DETAIL - INT 3196

0 20 40
HORIZONTAL
SCALE IN FEET

NOTES:

1. SEE SHEET 457 FOR QUANTITIES.
2. SEE SHEET 620 & 732 FOR COMMUNICATION DETAILS.

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CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☒ POWER
- ☒ LIGHTING



REFER TO SHEET 317 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

0 40 80
HORIZONTAL
SCALE IN FEET

CIP: 540007–100012
PID NUMBER: 99733

INTERCONNECT PLAN
LANE AVE BETWEEN STA. 141+50 AND 147+50, INT 3196

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

456
915

3378-E

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ESTIMATED QUANTITIES

SHEET NO.	REFERENCE NO.	LOCATION	STATION		202	632	632	632	632	632	632	632	632	632	632	633	633	633						
					EXISTING CONDUIT CLEANED, AS PER PLAN	CONDUIT RISER, 2", 725.04, AS PER PLAN	INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 144 STRAND	INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 24 STRAND	INTERCONNECT CABLE, MISC.: FIBER OPTIC DROP CABLE, 24 STRAND	INTERCONNECT CABLE, MISC.: FIBER OPTIC FUSION SPLICE	INTERCONNECT CABLE, MISC.: OVERLASH TO EXISTING INTERCONNECT	INTERCONNECT CABLE, MISC.: REMOVE EXISTING OVERHEAD INTERCONNECT	INTERCONNECT CABLE, MISC.: TERMINATION PANEL, 24 FIBER	INTERCONNECT, MISC.: SPLICE ENCLOSURE, CLAMSHELL, 288 SPLICE	MESSENGER WIRE, 7 STRAND, 1/4" DIAMETER WITH ACCESSORIES, AS PER PLAN	CONTROLLER ITEM, MISC.: FIBER OPTIC ETHERNET TRANSCEIVER, SHORT RANGE	CONTROLLER ITEM, MISC.: LAYER 2 ETHERNET SWITCH	CONTROLLER UNIT, TYPE TS2/A2, AS PER PLAN						
			FROM	TO	FT	EACH	FT	FT	FT	EACH	FT	FT	EACH	EACH	FT	EACH	EACH	EACH						
SEVENTH AVE. BETWEEN STA. 6+00 AND 11+00, INT 3194																								
452	TC-1	SEVENTH AVE	8+37, 23' RT			1			45				1			2	1	1						
452	IC-2	SEVENTH AVE	8+37, 23' RT	8+59, 19' RT					21						21									
452	SE A-1	SEVENTH AVE	8+59, 19' RT				75		125	12				1										
452	IC-1	SEVENTH AVE	8+59, 19' RT	11+00, 19' RT			245				241				245									
ELEVENTH AVE. BETWEEN STA. 16+50 AND 21+00																								
453	IC-1	ELEVENTH AVE	16+50, 23' LT	21+00, 26' LT	450		450																	
ELEVENTH AVE. BETWEEN STA. 23+50 AND 33+00, INT 3180																								
454	IC-1	ELEVENTH AVE	23+50, 25' LT	31+43, 21' LT	794		794																	
454	TC-1	ELEVENTH AVE	31+37, 50' LT						10				1			2	1							
454	IC-2	ELEVENTH AVE	31+37, 50' LT	31+43, 21' LT	30				30															
454	SE U-1	ELEVENTH AVE	31+43, 21' LT				75		125	12				1										
FIFTEENTH AVE. BETWEEN STA. 11+00 AND 18+00, INT 3195																								
455	IC-2	FIFTEENTH AVE	12+31, 23' RT	12+31, 29' LT					53			52			53									
455	SE A-1	FIFTEENTH AVE	12+31, 23' RT					75	125	12				1										
455	IC-1	FIFTEENTH AVE	12+31, 23' RT	18+00, 202' RT				780				768			780									
455	TC-1	FIFTEENTH AVE	12+31, 29' LT			1			45				1			2	1	1						
LANE AVE. BETWEEN STA. 141+50 AND 147+50, INT 3196																								
456	SE A-1	LANE AVE	142+61, 27' LT				75			144														
456	IC-1	LANE AVE	142+61, 27' LT	143+15, 21' LT			55				55													
456	IC-2	LANE AVE	143+15, 21' LT	147+50, 15' LT			442					442			442									
SHEET TOTAL					1,274	2	2,211	855	579	180	296	1,262	3	3	1,541	6	3	2	-	-	-	-	-	-

AERIAL SAG: 1.5% AERIAL SAG IS INCLUDED IN THE QUANTITIES FOR ANY AERIAL FIBER OR CABLE ITEMS.

3378-E

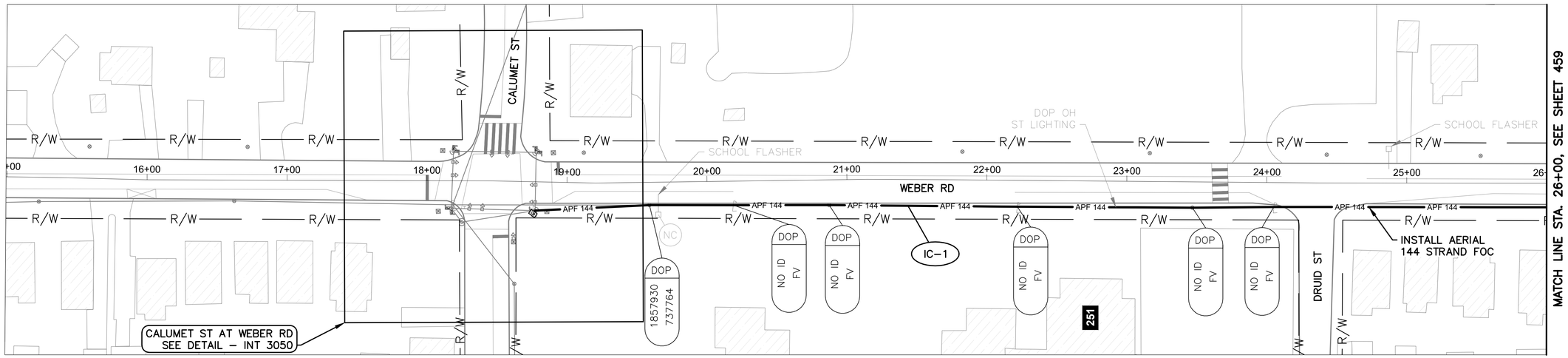
CIP: 540007–100012
PID NUMBER: 99733

SEVENTH AVE, ELEVENTH AVE, FIFTEENTH AVE, LANE AVE
INTS 3194, 3180, 3195, 3196

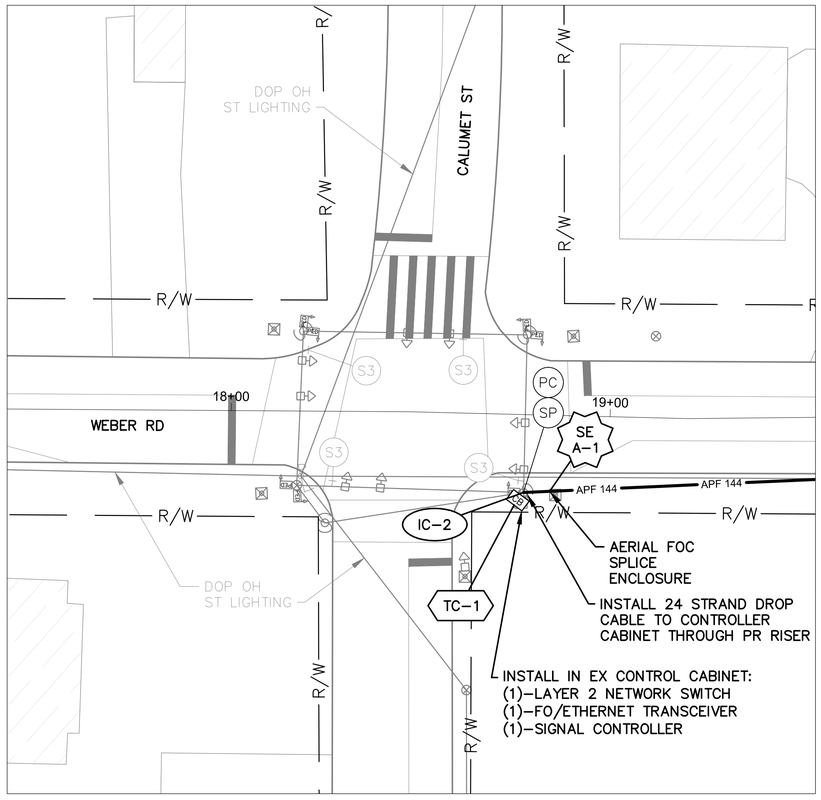
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

457
915

J:\Jobs\63721 CTSS Phase E\TECHPROD\Sheets\CTSS_PhE_Trunk4_SEVENTH_JC_QUANTITIES.dwg – SEVENTH AVE_Q1 layout ~ last saved by: gburch 08/22/2017 02:26pm ~ printed 09/18/2018 10:23am PSLTS: 1 LTS: 1 CAS: 1:1



WEBER RD BETWEEN STATION 15+00 AND 26+00



DETAIL - INT 3050

0 20 40
HORIZONTAL
SCALE IN FEET

NOTES:

1. SEE SHEET 460 FOR QUANTITIES.
2. SEE SHEETS 620 & 745 FOR COMMUNICATION DETAILS.

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CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☒ LIGHTING



REFER TO SHEET 317 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

0 40 80
HORIZONTAL
SCALE IN FEET

CIP: 540007–100012
PID NUMBER: 99733

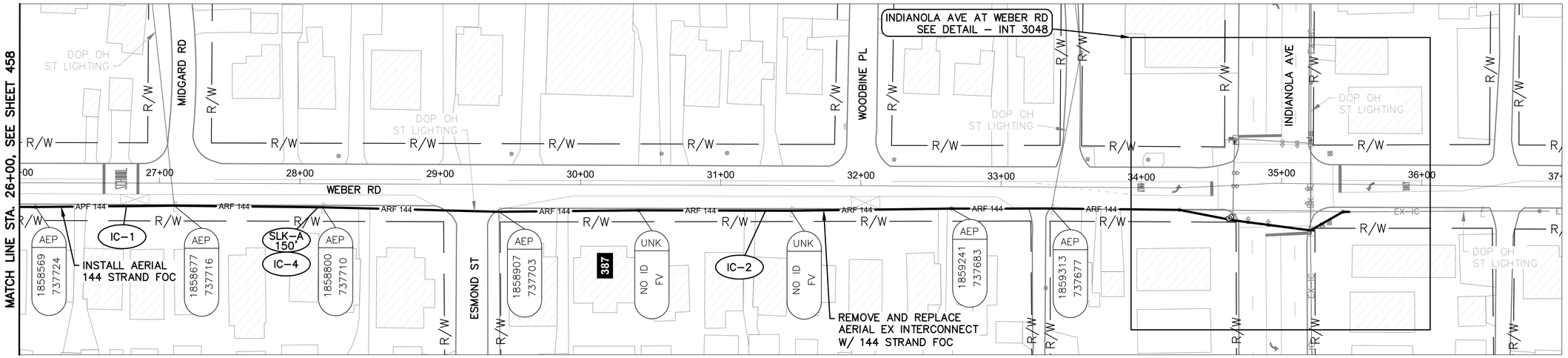
INTERCONNECT PLAN
WEBER RD BETWEEN STA. 15+00 AND 26+00, INT 3050

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

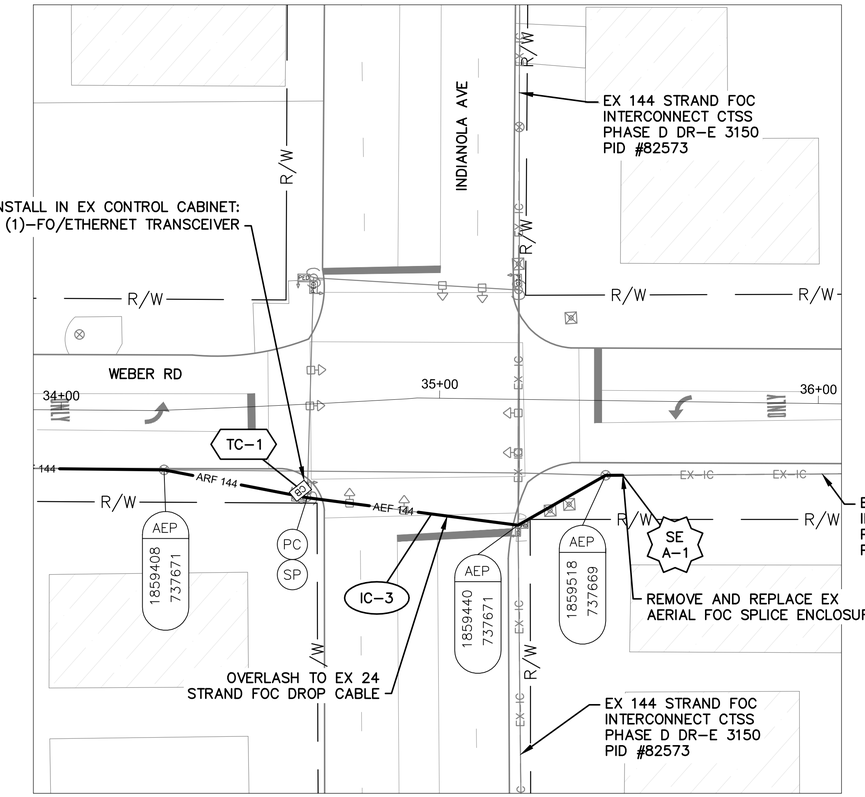
458
915

3378-E

j:\Jobs\63721 ctss phase e\TECHPROD\Sheets\CTSS_PhE_Trunk4_WEBER_INTERCONNECT.dwg ~ WEBER-1 layout ~ last saved by: rwegehaupt 08/29/2018 10:12am ~ printed 09/12/2018 02:49pm PSLTS: 1 LTS: 1 CAS: 1:1

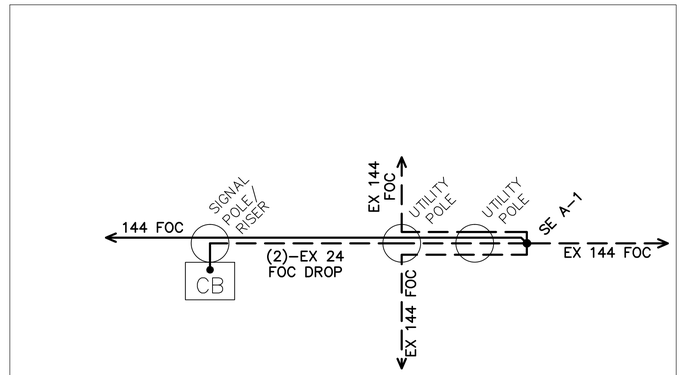


WEBER RD BETWEEN STATION 26+00 AND 37+00



DETAIL - INT 3048

0 20 40
HORIZONTAL SCALE IN FEET



CABLE SCHEMATIC - INT 3048

NOT TO SCALE

NOTES:

1. SEE SHEET 460 FOR QUANTITIES.
2. SEE SHEET 620 & 746 FOR COMMUNICATION DETAILS.

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CITY OF COLUMBUS UTILITY LEGEND
- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☒ LIGHTING



REFER TO SHEET 317 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

0 40 80
HORIZONTAL SCALE IN FEET

CIP: 540007–100012
PID NUMBER: 99733

INTERCONNECT PLAN
WEBER RD BETWEEN STA. 26+00 AND 37+00, INT 3048

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM (CTSS) PHASE E – FINAL SUBMITTAL

459
915

3378-E

J:\Jobs\63721 ctss phase e\TECHPROJ\Sheets\CTSS_PhE_Trunk4_WEBER_INTERCONNECT.dwg ~ WEBER–2 layout ~ last saved by: rwegehoupt 08/29/2018 10:12am ~ printed 09/12/2018 02:51pm PSLTS: 1 LTS: 1 CAS: 1:1

ESTIMATED QUANTITIES

SHEET NO.	REFERENCE NO.	LOCATION	STATION		632	632	632	632	632	632	632	632	632	632	633	633	633							
					CONDUIT RISER, 2", 725.04, AS PER PLAN	INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 144 STRAND	INTERCONNECT CABLE, MISC.: FIBER OPTIC DROP CABLE, 24 STRAND	INTERCONNECT CABLE, MISC.: FIBER OPTIC FUSION SPLICE	INTERCONNECT CABLE, MISC.: OVERLASH TO EXISTING INTERCONNECT	INTERCONNECT CABLE, MISC.: REMOVE EXISTING OVERHEAD INTERCONNECT	INTERCONNECT CABLE, MISC.: TERMINATION PANEL, 24 FIBER	INTERCONNECT, MISC.: SPLICE ENCLOSURE, CLAMSHELL, 288 SPLICE	INTERCONNECT, MISC.: SPLICE ENCLOSURE, DOME, 800 SPLICE	MESSENGER WIRE, 7 STRAND, 1/4" DIAMETER WITH ACCESSORIES, AS PER PLAN	CONTROLLER ITEM, MISC.: FIBER OPTIC ETHERNET TRANSCEIVER, SHORT RANGE	CONTROLLER ITEM, MISC.: LAYER 2 ETHERNET SWITCH	CONTROLLER UNIT, TYPE TS2/A2, AS PER PLAN						
			FROM	TO	EACH	FT	FT	EACH	FT	FT	EACH	EACH	EACH	FT	EACH	EACH	EACH							
WEBER RD. BETWEEN STA. 15+00 AND 26+00, INT 3050																								
458	SE A-1	WEBER RD	18+77, 21' RT			75	125	12				1												
458	IC-2	WEBER RD	18+77, 21' RT	18+77, 21' RT	1		35																	
458	TC-1	WEBER RD	18+77, 21' RT				10				1				1	1	1							
458	IC-1	WEBER RD	18+77, 21' RT	26+00, 17' RT		734								734										
WEBER RD. BETWEEN STA. 26+00 AND 37+00, INT 3048																								
459	IC-1	WEBER RD	26+00, 17' RT	27+10, 16' RT		112								112										
459	IC-2	WEBER RD	27+10, 16' RT	34+63, 25' RT		766				755				766										
459	IC-4	WEBER RD	28+13, 17' RT			150																		
459	TC-1	WEBER RD	34+63, 25' RT												1									
459	IC-3	WEBER RD	34+63, 25' RT	35+44, 20' RT		88			88															
459	SE A-1	WEBER RD	35+44, 20' RT			75		144					1											
SHEET TOTAL					1	2,000	170	156	88	755	1	1	1	1,612	2	1	1	-	-	-	-	-	-	-

AERIAL SAG: 1.5% AERIAL SAG IS INCLUDED IN THE QUANTITIES FOR ANY AERIAL FIBER OR CABLE ITEMS.

3378-E

CIP: 540007–100012
PID NUMBER: 99733

WEBER AVE BETWEEN STA. 15+00 & 37+00
INTS 3050, 3048

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

460
915

J:\Jobs\63721 CTSS Phase E\TECHPROD\Sheets\CTSS_PhE_Trunk4_WEBER_IC_QUANTITIES.dwg – WEBER AVE_Q1 layout ~ last saved by: gburch 08/22/2017 02:27pm ~ printed 09/18/2018 10:24am PSLTS: 1 LTS: 1 CAS: 1:1

SHEET INTENTIONALLY LEFT BLANK

J:\Jobs\63721 ctss phase e\TECHPROD\Sheets\CTSS_PhE_Trunk4_LONG_INTERCONNECT.dwg ~ LONG-A layout ~ last saved by: gburch 09/05/2018 03:32pm ~ printed 09/12/2018 02:51am PSLTS: 1 LTS: 1 CAS: 1:1

0 40 80
HORIZONTAL
SCALE IN FEET

CIP: 540007-100012
PID NUMBER: 99733

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

J:\Jobs\6372! ctss phase e\TECHPROD\Sheets\CTSS_PhE_Trunk4_LONG_INTERCONNECT.dwg — LONG-B layout ~ last saved by: gburch 09/05/2018 03:32pm ~ printed 09/12/2018 02:51am PSLTS: 1 LTS: 1 CAS: 1:1

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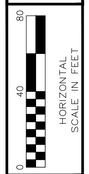
0 40 80
HORIZONTAL
SCALE IN FEET

CIP: 540007-100012
PID NUMBER: 99733

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

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CIP: 540007-100012
PID NUMBER: 99733

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

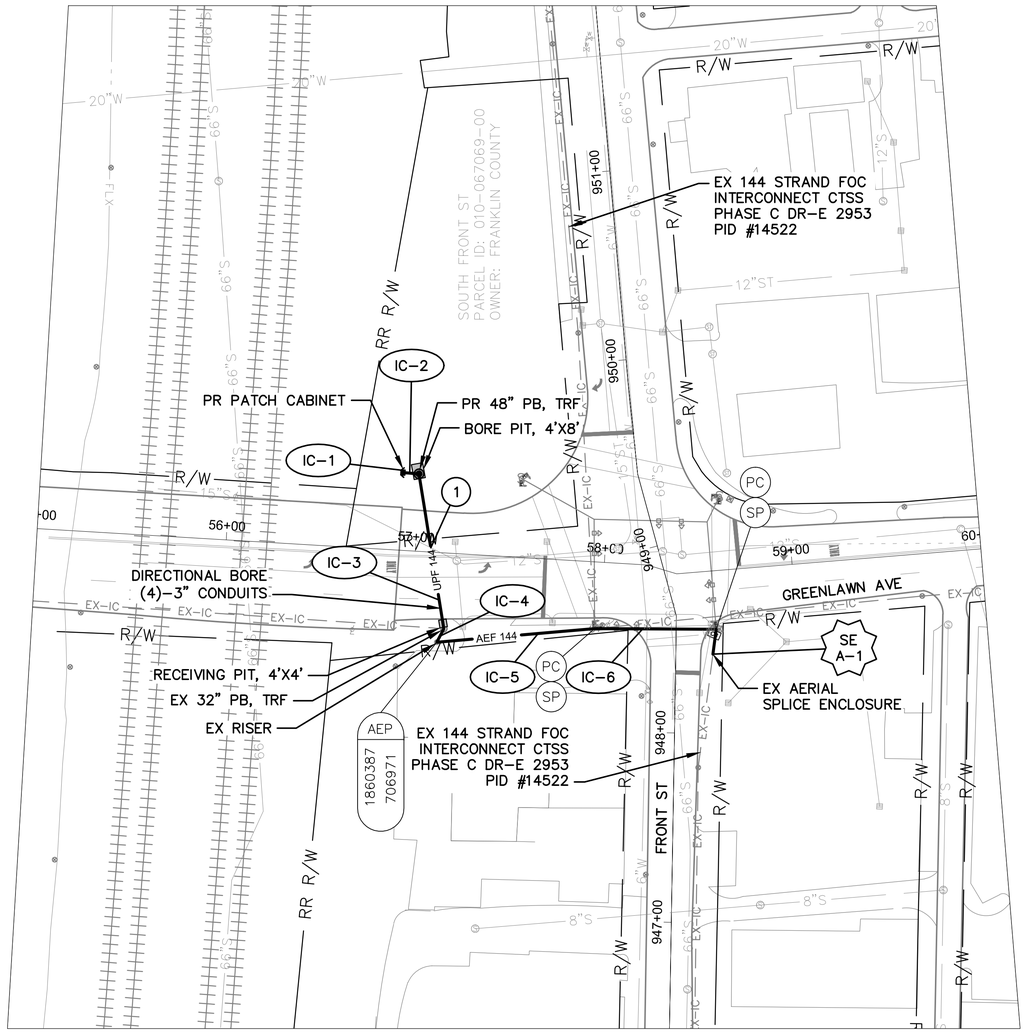
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SHEET INTENTIONALLY LEFT BLANK

0 40 80
HORIZONTAL
SCALE IN FEET

CIP: 540007-100012
PID NUMBER: 99733

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL



GREENLAWN AVE BETWEEN STATION 55+00 AND 60+00

NOTES:

1. SEE SHEET 466 FOR QUANTITIES.
2. SEE SHEETS 858 & 859 FOR COMMUNICATION DETAILS.
3. RESOLUTION NUMBER 0509-14 (SIGNED ON JULY 23, 2014), GRANTING CONSENT FOR THE COOPERATION OF FRANKLIN COUNTY AND THE CITY OF COLUMBUS TO COMPLETE WORK RELATED TO THE CTSS PHASE PROJECTS.

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CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 317 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

3378-E

HORIZONTAL SCALE IN FEET
0 40 80

CIP: 540007-100012
PID NUMBER: 99733

INTERCONNECT PLAN
GREENLAWN AVE BETWEEN STA. 55+00 AND 60+00

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E - FINAL SUBMITTAL

465
915

J:\Jobs\63721 ctss phase e\TECHPROD\Sheets\CTSS_PhE_Trunk4_FRONT_INTERCONNECT.dwg ~ FRONT-1 layout ~ last saved by: gburch 09/11/2018 02:16pm ~ printed 09/12/2018 02:53am PSLTS: 1 LTS: 1 CAS: 1:1

ESTIMATED QUANTITIES

SHEET NO.	REFERENCE NO.	LOCATION	STATION		202	625	625	625	625	632	632	632	632	633										
					EXISTING CONDUIT CLEANED, AS PER PLAN	CONDUIT, CONCRETE ENCASED, 4-3", 725.05, AS PER PLAN	CONDUIT, JACKED OR DRILLED, 3", AS PER PLAN	PULL BOX, CONCRETE 48", AS PER PLAN	TRENCH, 36" DEEP, AS PER PLAN	INTERCONNECT CABLE, MISC.: FIBER OPTIC FUSION SPLICE	INTERCONNECT CABLE, MISC.: OVERLASH TO EXISTING INTERCONNECT	INTERCONNECT, MISC.: PRE-TERMINATED FIBER OPTIC DROP CABLE, 144 STRAND, 475FT	INTERCONNECT, MISC.: TERMINATION PANEL, 288 FIBER, 4 RU	CABINET, TYPE 334, AS PER PLAN									
			FROM	TO	FT	FT	FT	EACH	FT	EACH	FT	EACH	EACH	EACH										
GREENLAWN AVE. BETWEEN STA. 55+00 AND 60+00																								
465	IC-1	GREENLAWN AVE	56+91, 41' LT										2	1										
465	IC-2	GREENLAWN AVE	56+91, 41' LT	56+99, 41' LT		9			9															
465	IC-6	GREENLAWN AVE	56+91, 41' LT	58+55, 41' RT								4												
465	IC-3	GREENLAWN AVE	56+99, 41' LT	57+17, 40' RT			332	1																
465	IC-4	GREENLAWN AVE	57+14, 47' RT	57+17, 40' RT	8																			
465	IC-5	GREENLAWN AVE	57+14, 47' RT	58+55, 41' RT							158													
465	SE A-1	GREENLAWN AVE	58+55, 41' RT							468														
SHEET TOTAL					8	9	332	1	9	468	158	4	2	1	-	-	-	-	-	-	-	-	-	-

AERIAL SAG: 1.5% AERIAL SAG IS INCLUDED IN THE QUANTITIES FOR ANY AERIAL FIBER OR CABLE ITEMS.

3378-E

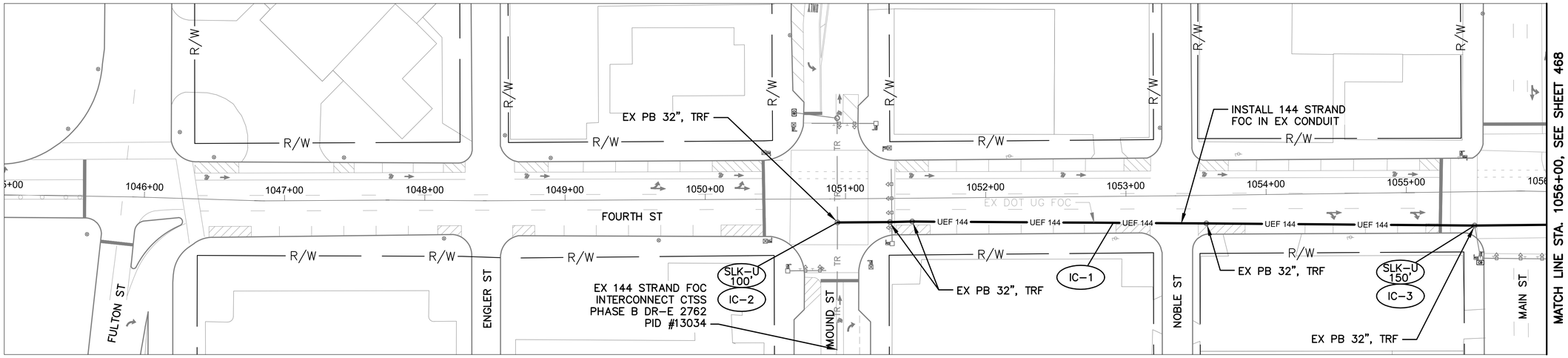
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PID NUMBER: 99733

GREENLAWN AVE BETWEEN STA. 55+00 & 60+00

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

466
915

J:\Jobs\63721 CTSS Phase E\TECHPROD\Sheets\CTSS_PhE_Trunk4_LONG_IC_QUANTITIES.dwg – LONG ST_Q1 layout ~ last saved by: gburch 09/11/2018 10:05am ~ printed 09/18/2018 10:25am PSLTS: 1 LTS: 1 CAS: 1:1



FOURTH ST BETWEEN STATION 1045+00 AND 1056+00

NOTES:

1. SEE SHEET 472 FOR QUANTITIES.

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www.oups.org

CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 317 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

3378-E

HORIZONTAL SCALE IN FEET
0 40 80

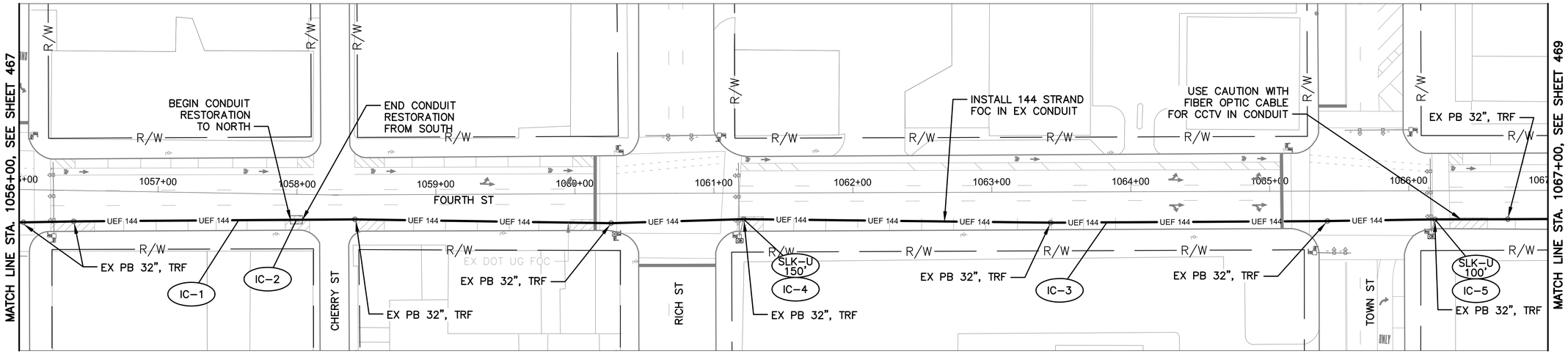
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PID NUMBER: 99733

INTERCONNECT PLAN
FOURTH ST BETWEEN STA. 1045+00 AND 1056+00

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

467
915

J:\Jobs\63721 ctss phase e\TECHPROD\Sheets\CTSS_PhE_Trunk4_DOWNTOWN_INTERCONNECT.dwg – FOURTH-1 layout ~ last saved by: gburch 06/15/2018 02:43pm ~ printed 09/12/2018 02:55am PSLTS: 1 LTS: 1 CAS: 1:1



FOURTH ST BETWEEN STATION 1056+00 AND 1067+00

NOTES:

1. SEE SHEET 472 FOR QUANTITIES.

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www.oups.org

CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 317 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

3378-E

HORIZONTAL SCALE IN FEET
0 40 80

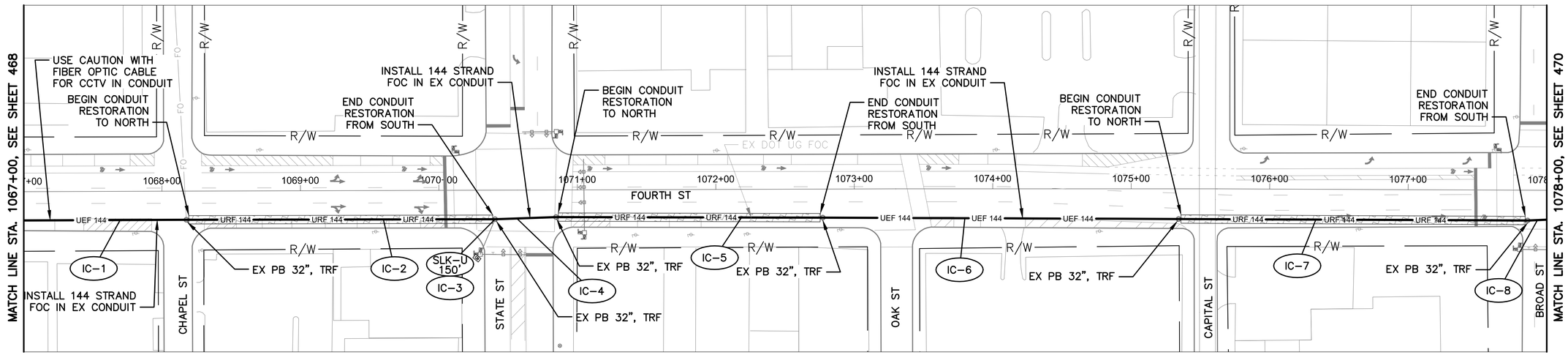
CIP: 540007-100012
PID NUMBER: 99733

INTERCONNECT PLAN
FOURTH ST BETWEEN STA. 1056+00 AND 1067+00

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

468
915

J:\Jobs\63721 ctss phase e\TECHPROD\Sheets\CTSS_PhE_Trunk4_DOWNTOWN_INTERCONNECT.dwg – FOURTH-2 layout ~ last saved by: gburch 06/15/2018 02:43pm ~ printed 09/12/2018 02:56pm PSLTS: 1 LTS: 1 CAS: 1:1



FOURTH ST BETWEEN STATION 1067+00 AND 1078+00

NOTES:

1. SEE SHEET 472 FOR QUANTITIES.

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www.oups.org

CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 317 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

HORIZONTAL SCALE IN FEET
0 40 80

CIP: 540007-100012
PID NUMBER: 99733

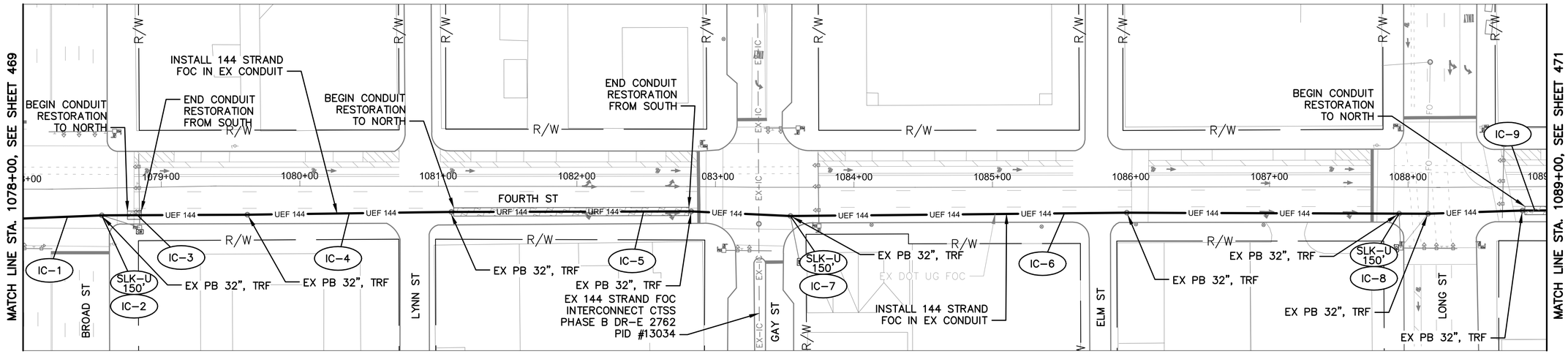
INTERCONNECT PLAN
FOURTH ST BETWEEN STA. 1067+00 AND 1078+00

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

3378-E

469
915

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FOURTH ST BETWEEN STATION 1078+00 AND 1089+00

NOTES:

1. SEE SHEET 472 FOR QUANTITIES.

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CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 317 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

3378-E

HORIZONTAL SCALE IN FEET
0 40 80

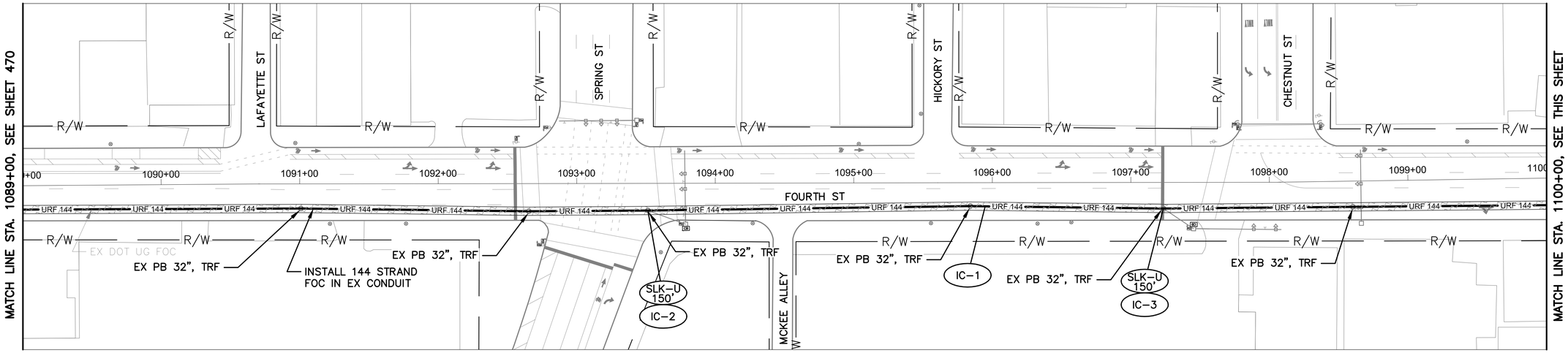
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PID NUMBER: 99733

INTERCONNECT PLAN
FOURTH ST BETWEEN STA. 1078+00 AND 1089+00

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

470
915

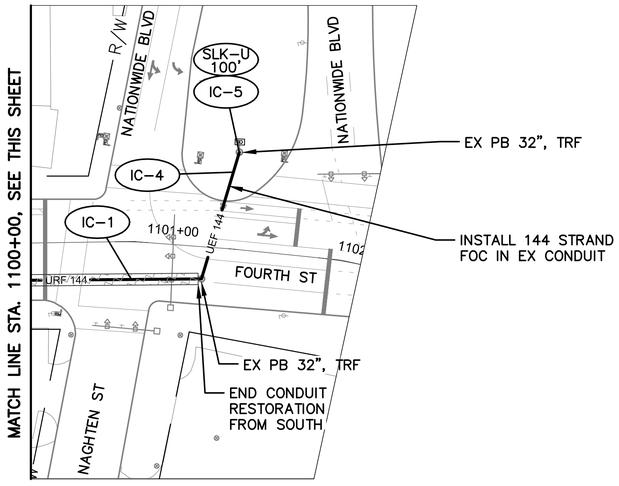
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FOURTH ST BETWEEN STATION 1089+00 AND 1100+00

NOTES:

1. SEE SHEET 472 FOR QUANTITIES.



FOURTH ST BETWEEN STATION 1100+00 AND 1102+00

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CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 317 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

HORIZONTAL SCALE IN FEET
0 40 80

CIP: 540007-100012
PID NUMBER: 99733

INTERCONNECT PLAN
FOURTH ST BETWEEN STA. 1089+00 AND 1102+00

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

3378-E

471
915

J:\Jobs\63721 ctss phase e\TECHPROD\Sheets\CTSS_PhE_Trunk4_DOWNTOWN_INTERCONNECT.dwg – FOURTH-5 layout ~ last saved by: gburch 06/15/2018 02:43pm ~ printed 09/12/2018 03:00am PSLTS: 1 LTS: 1 CAS: 1:1

ESTIMATED QUANTITIES

SHEET NO.	REFERENCE NO.	LOCATION	STATION		202	625	632																	
					EXISTING CONDUIT CLEANED, AS PER PLAN	CONDUIT, MISC.: CONDUIT RESTORATION	INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 144 STRAND																	
			FROM	TO	FT	FT	FT																	
FOURTH ST. BETWEEN STA. 1045+00 AND 1056+00																								
467	IC-1	FOURTH ST	1050+94, 17' RT	1056+00, 25' RT	505		505																	
467	IC-2	FOURTH ST	1050+94, 17' RT				100																	
467	IC-3	FOURTH ST	1055+49, 24' RT				150																	
FOURTH ST. BETWEEN STA. 1056+00 AND 1067+00																								
468	IC-1	FOURTH ST	1056+00, 25' RT	1057+96, 18' RT	156		156																	
468	IC-2	FOURTH ST	1057+96, 18' RT	1058+04, 18' RT		10	10																	
468	IC-3	FOURTH ST	1058+04, 18' RT	1067+00, 21' RT	896		896																	
468	IC-4	FOURTH ST	1061+21, 19' RT				150																	
468	IC-5	FOURTH ST	1066+19, 21' RT				100																	
FOURTH ST. BETWEEN STA. 1067+00 AND 1078+00																								
469	IC-1	FOURTH ST	1067+00, 21' RT	1068+18, 21' RT	117		117																	
469	IC-2	FOURTH ST	1068+18, 21' RT	1070+40, 21' RT		223	223																	
469	IC-3	FOURTH ST	1070+40, 21' RT				150																	
469	IC-4	FOURTH ST	1070+40, 21' RT	1070+84, 20' RT	44		44																	
469	IC-5	FOURTH ST	1070+84, 20' RT	1072+77, 21' RT		193	193																	
469	IC-6	FOURTH ST	1072+77, 21' RT	1075+34, 22' RT	257		257																	
469	IC-7	FOURTH ST	1075+34, 22' RT	1077+86, 22' RT		252	252																	
469	IC-8	FOURTH ST	1077+86, 22' RT	1078+00, 21' RT	14		14																	
FOURTH ST. BETWEEN STA. 1078+00 AND 1089+00																								
470	IC-1	FOURTH ST	1078+00, 21' RT	1078+75, 20' RT	75		75																	
470	IC-2	FOURTH ST	1078+57, 20' RT				150																	
470	IC-3	FOURTH ST	1078+75, 20' RT	1078+85, 20' RT		10	10																	
470	IC-4	FOURTH ST	1078+85, 20' RT	1081+09, 18' RT	224		224																	
470	IC-5	FOURTH ST	1081+09, 18' RT	1082+83, 18' RT		173	173																	
470	IC-6	FOURTH ST	1082+83, 18' RT	1088+82, 17' RT	600		600																	
470	IC-7	FOURTH ST	1083+54, 21' RT				150																	
470	IC-8	FOURTH ST	1087+94, 19' RT				150																	
470	IC-9	FOURTH ST	1088+82, 17' RT	1089+00, 17' RT		18	18																	
FOURTH ST. BETWEEN STA. 1089+00 AND 1102+00																								
471	IC-1	FOURTH ST	1089+00, 17' RT	1101+17, 17' RT		1,189	1,189																	
471	IC-2	FOURTH ST	1093+51, 20' RT				150																	
471	IC-3	FOURTH ST	1097+23, 19' RT				150																	
471	IC-4	FOURTH ST	1101+17, 17' RT	1101+31, 51' LT	70		70																	
471	IC-5	FOURTH ST	1101+31, 51' LT				150																	
SHEET TOTAL					2,958	2,068	6,576	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

AERIAL SAG: 1.5% AERIAL SAG IS INCLUDED IN THE QUANTITIES FOR ANY AERIAL FIBER OR CABLE ITEMS.

3378-E

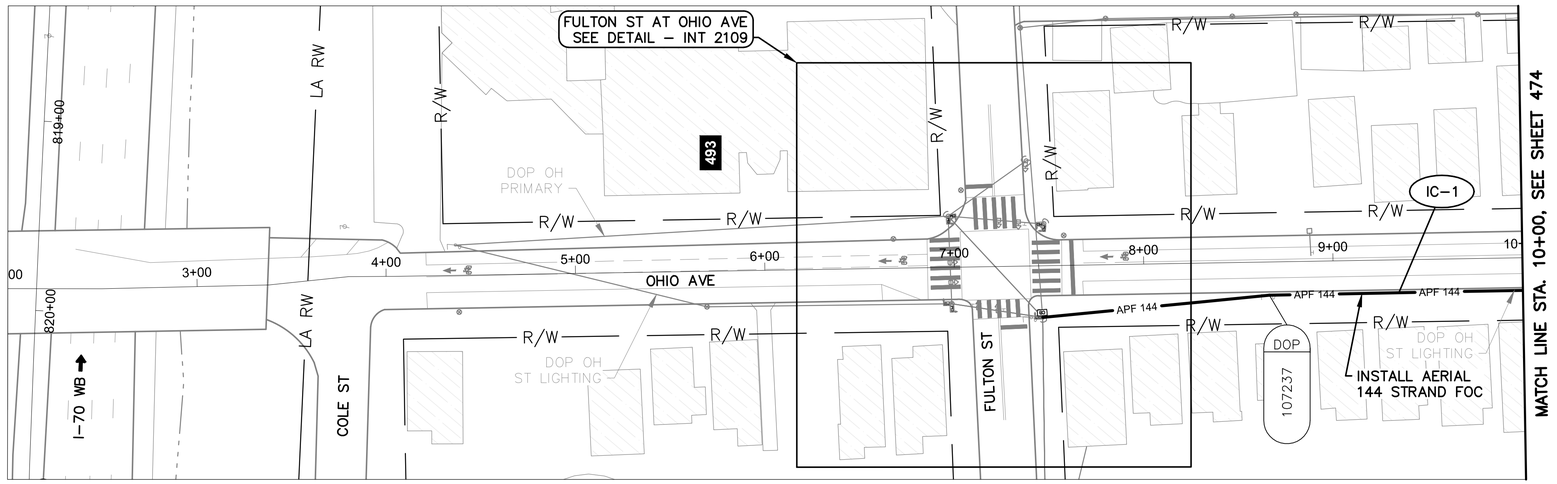
CIP: 540007-100012
PID NUMBER: 99733

FOURTH ST BETWEEN STA. 1045+00 & 1102+00

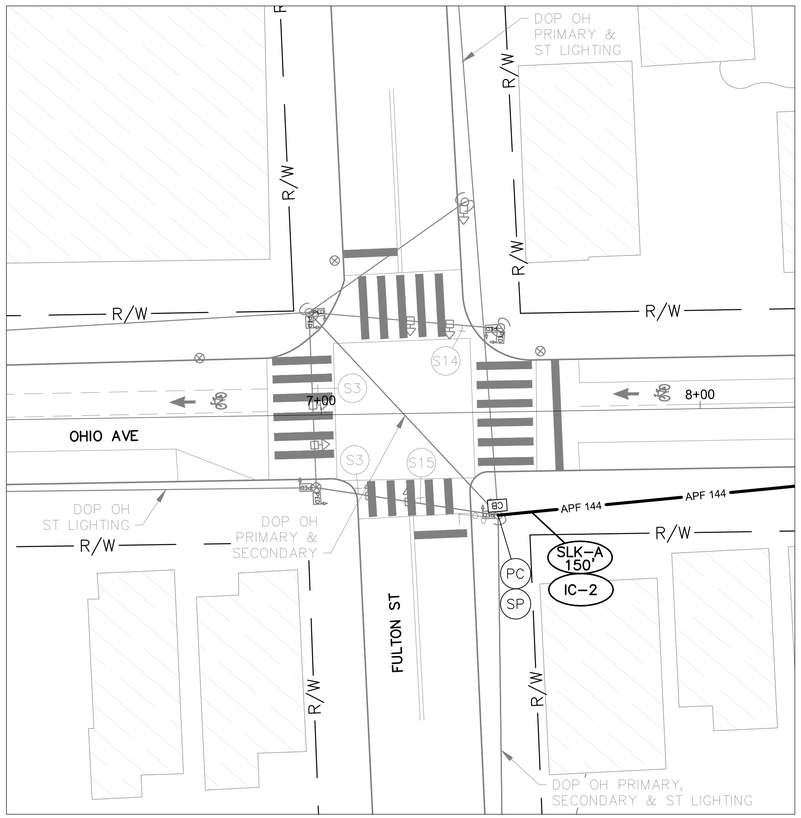
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

472
915

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OHIO AVE BETWEEN STATION 2+00 AND 10+00



DETAIL - INT 2109

0 20 40
HORIZONTAL
SCALE IN FEET

NOTES:

1. SEE SHEET 475 FOR QUANTITIES.
2. SEE SHEET 632 FOR COMMUNICATION DETAILS.

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CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☒ POWER
- ☒ LIGHTING



REFER TO SHEET 317 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

0 40 80
HORIZONTAL
SCALE IN FEET

CIP: 540007–100012
PID NUMBER: 99733

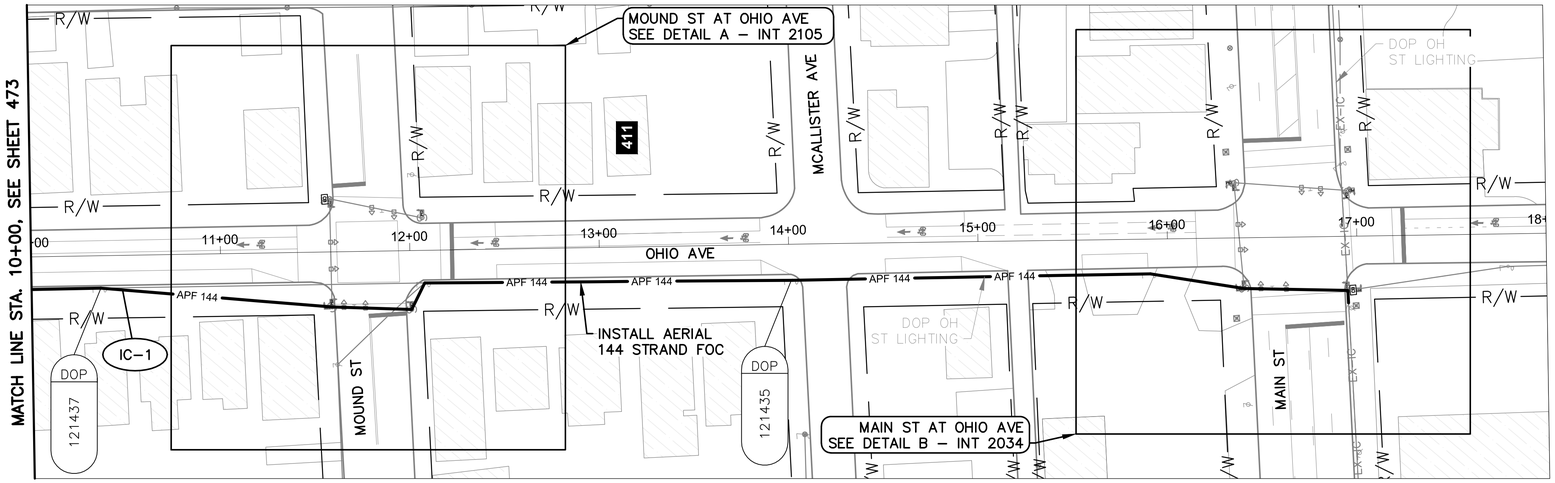
INTERCONNECT PLAN
OHIO AVE BETWEEN STA. 2+00 AND 10+00, INT 2109

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

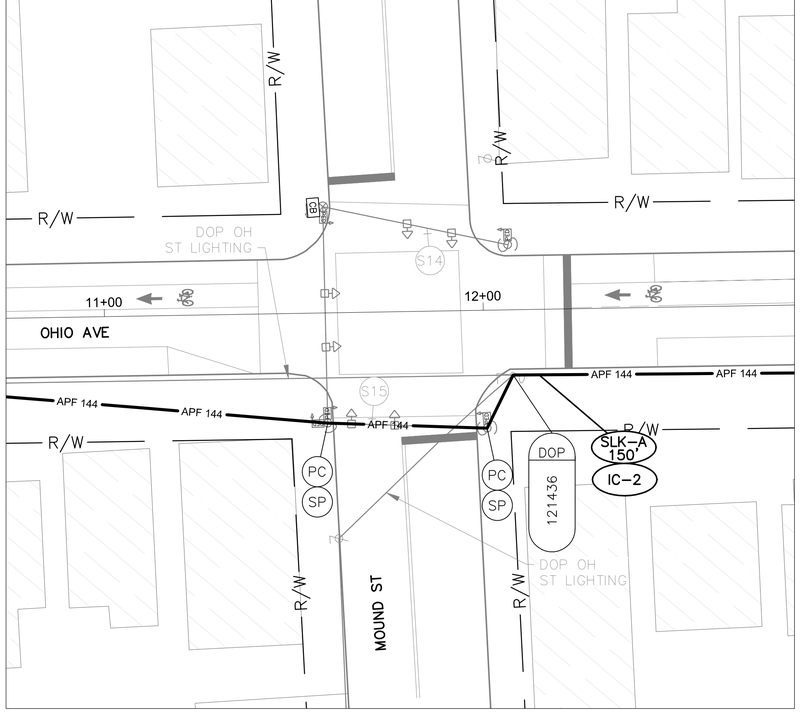
473
915

3378-E

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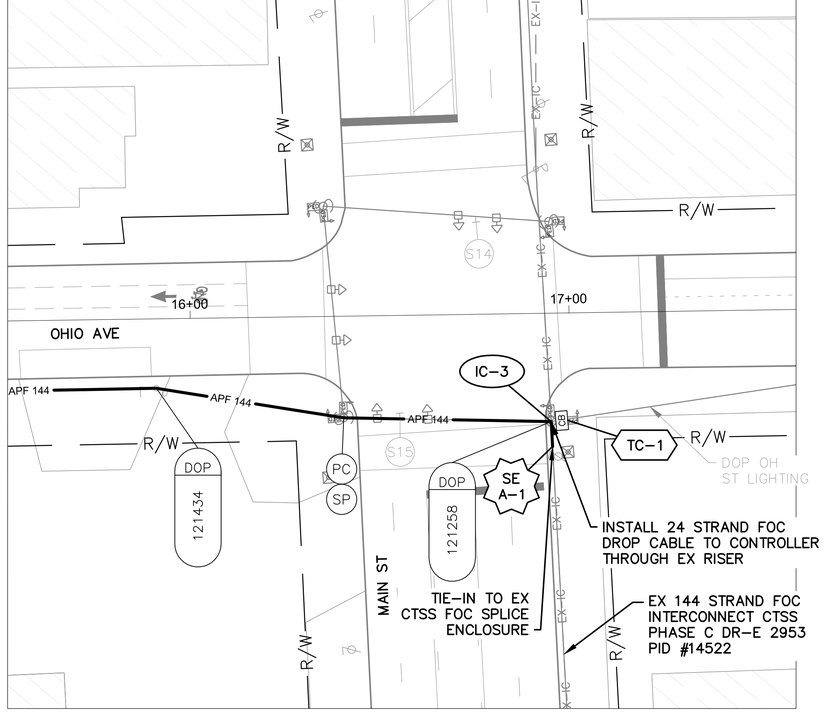


OHIO AVE BETWEEN STATION 10+00 AND 18+00



DETAIL A - INT 2105

0 20 40
HORIZONTAL
SCALE IN FEET



DETAIL B - INT 2034

0 20 40
HORIZONTAL
SCALE IN FEET

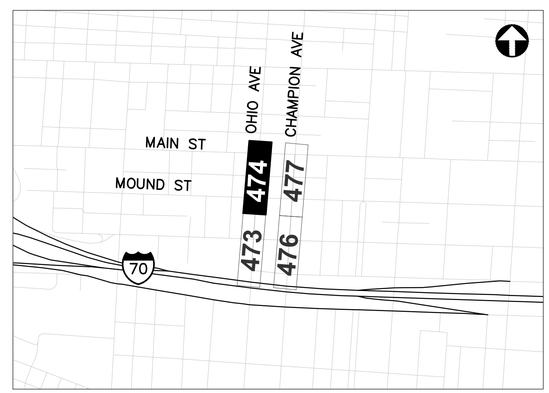
NOTES:

1. SEE SHEET 475 FOR QUANTITIES.
2. SEE SHEETS 632 & 853 FOR COMMUNICATION DETAILS.

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CITY OF COLUMBUS
UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☒ LIGHTING



REFER TO SHEET 317 FOR
INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

0 40 80
HORIZONTAL
SCALE IN FEET

CIP: 540007–100012
PID NUMBER: 99733

INTERCONNECT PLAN
OHIO AVE BETWEEN STA. 10+00 AND 18+00, INTS 2105 & 2034

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

3378-E

474
915

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ESTIMATED QUANTITIES

SHEET NO.	REFERENCE NO.	LOCATION	STATION		632	632	632	632	632															
					INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 144 STRAND	INTERCONNECT CABLE, MISC.: FIBER OPTIC DROP CABLE, 24 STRAND	INTERCONNECT CABLE, MISC.: FIBER OPTIC FUSION SPLICE	INTERCONNECT CABLE, MISC.: TERMINATION PANEL, 24 FIBER	MESSENGER WIRE, 7 STRAND, 1/4" DIAMETER WITH ACCESSORIES, AS PER PLAN															
			FROM	TO	FT	FT	EACH	EACH	FT															
OHIO AVE. BETWEEN STA. 2+00 AND 10+00, INT 2109																								
473	IC-2	OHIO AVE	7+46, 27' RT		150																			
473	IC-1	OHIO AVE	7+46, 27' RT	10+00, 17' RT	258				258															
OHIO AVE. BETWEEN STA. 10+00 AND 18+00, INTS 2105 & 2034																								
474	IC-1	OHIO AVE	10+00, 17' RT	16+94, 29' RT	715				715															
474	IC-2	OHIO AVE	12+07, 17' RT		150																			
474	SE A-1	OHIO AVE	16+94, 29' RT		75	125	204																	
474	IC-3	OHIO AVE	16+94, 29' RT	16+94, 29' RT		35																		
474	TC-1	OHIO AVE	16+94, 29' RT			10		1																
SHEET TOTAL					1,348	170	204	1	973	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

AERIAL SAG: 1.5% AERIAL SAG IS INCLUDED IN THE QUANTITIES FOR ANY AERIAL FIBER OR CABLE ITEMS.

3378-E

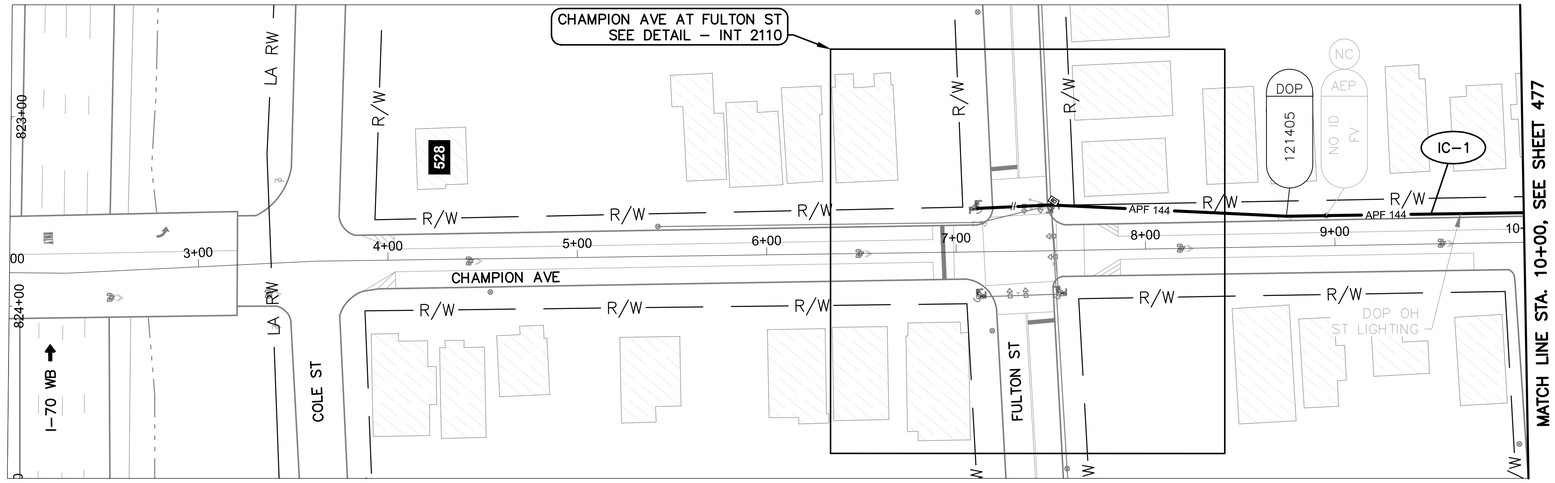
CIP: 540007-100012
PID NUMBER: 99733

OHIO AVE BETWEEN STA. 2+00 & 18+00
INTS 2109, 2105, 2034

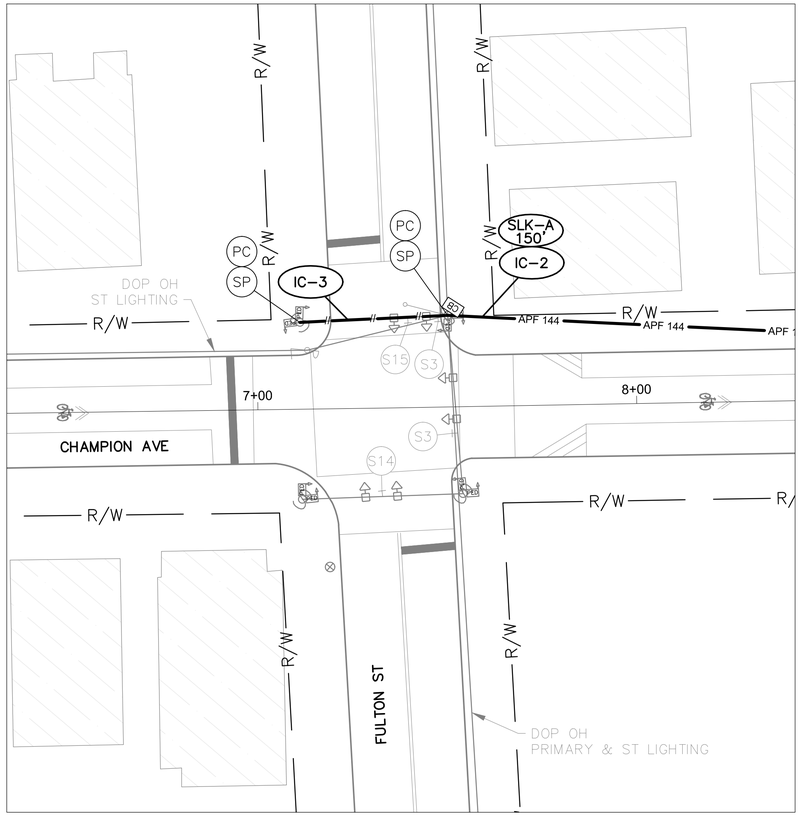
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

475
915

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CHAMPION AVE BETWEEN STATION 2+00 AND 10+00



DETAIL - INT 2110

0 20 40
HORIZONTAL
SCALE IN FEET

NOTES:

1. SEE SHEET 478 FOR QUANTITIES.
2. SEE SHEET 632 FOR COMMUNICATION DETAILS.

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CITY OF COLUMBUS
UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☒ POWER
- ☒ LIGHTING



REFER TO SHEET 317 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

0 40 80
HORIZONTAL
SCALE IN FEET

CIP: 540007–100012
PID NUMBER: 99733

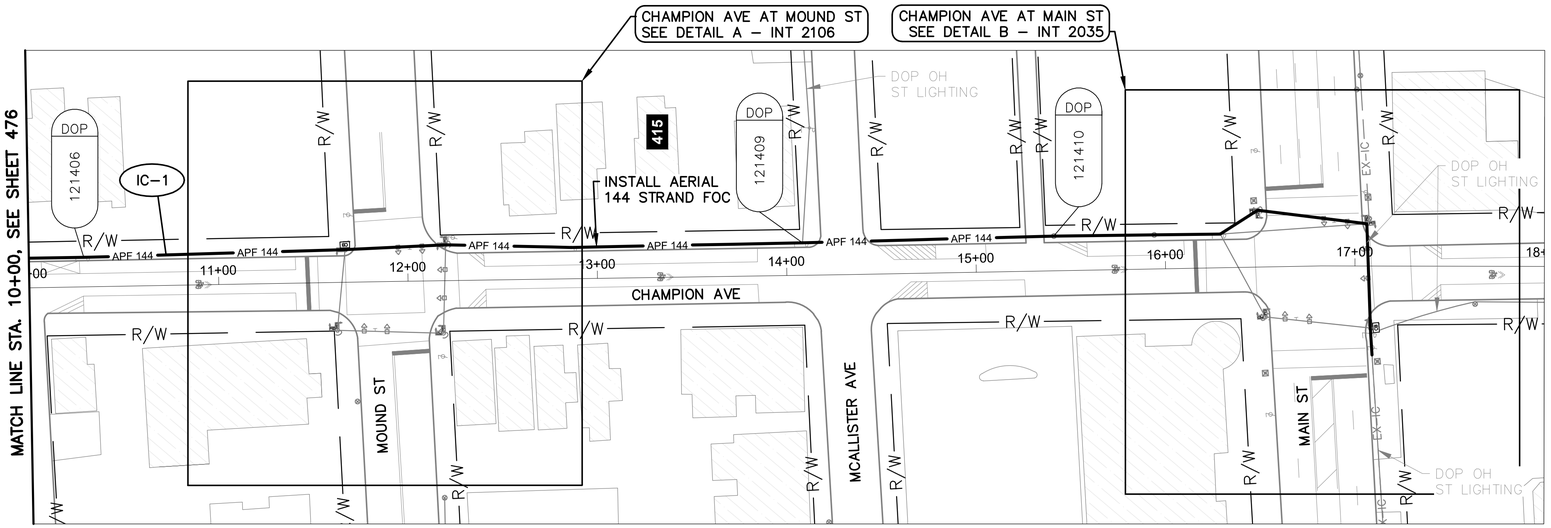
INTERCONNECT PLAN
CHAMPION AVE BETWEEN STA. 2+00 AND 10+00, INT 2110

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

476
915

3378-E

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CHAMPION AVE BETWEEN STATION 10+00 AND 18+00

DETAIL A - INT 2106

0 20 40
HORIZONTAL
SCALE IN FEET

DETAIL B - INT 2035

0 20 40
HORIZONTAL
SCALE IN FEET

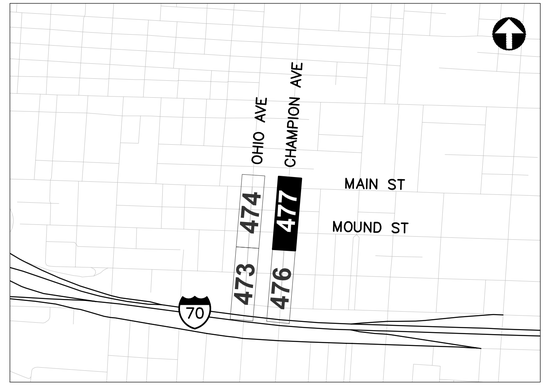
NOTES:

1. SEE SHEET 478 FOR QUANTITIES.
2. SEE SHEETS 632 & 854 FOR COMMUNICATION DETAILS.

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CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☒ LIGHTING



REFER TO SHEET 317 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

0 40 80
HORIZONTAL
SCALE IN FEET

CIP: 540007–100012
PID NUMBER: 99733

INTERCONNECT PLAN
CHAMPION AVE BETWEEN STA. 10+00 AND 18+00, INTS 2106 & 2035

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

3378-E

477
915

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ESTIMATED QUANTITIES

SHEET NO.	REFERENCE NO.	LOCATION	STATION		632 INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 144 STRAND	632 INTERCONNECT CABLE, MISC.: FIBER OPTIC DROP CABLE, 24 STRAND	632 INTERCONNECT CABLE, MISC.: FIBER OPTIC FUSION SPLICE	632 INTERCONNECT CABLE, MISC.: TERMINATION PANEL, 24 FIBER	632 MESSENGER WIRE, 7 STRAND, 1/4" DIAMETER WITH ACCESSORIES, AS PER PLAN															
			FROM	TO	FT	FT	EACH	EACH	FT																
CHAMPION AVE. BETWEEN STA. 2+00 AND 10+00, INT 2110																									
476	IC-3	CHAMPION AVE	7+11, 23' LT	7+50, 24' LT					39																
476	IC-2	CHAMPION AVE	7+50, 24' LT		150																				
476	IC-1	CHAMPION AVE	7+50, 24' LT	10+00, 16' LT	254				254																
CHAMPION AVE. BETWEEN STA. 10+00 AND 18+00, INTS 2106 & 2035																									
477	IC-1	CHAMPION AVE	10+00, 16' LT	17+09, 47' RT	792				792																
477	IC-2	CHAMPION AVE	11+67, 17' LT		150																				
477	SE A-1	CHAMPION AVE	17+08, 36' RT		75	125	204																		
477	IC-3	CHAMPION AVE	17+08, 36' RT	17+08, 36' RT		35																			
477	TC-1	CHAMPION AVE	17+08, 36' RT			10		1																	
SHEET TOTAL					1,421	170	204	1	1,085	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

AERIAL SAG: 1.5% AERIAL SAG IS INCLUDED IN THE QUANTITIES FOR ANY AERIAL FIBER OR CABLE ITEMS.

3378-E

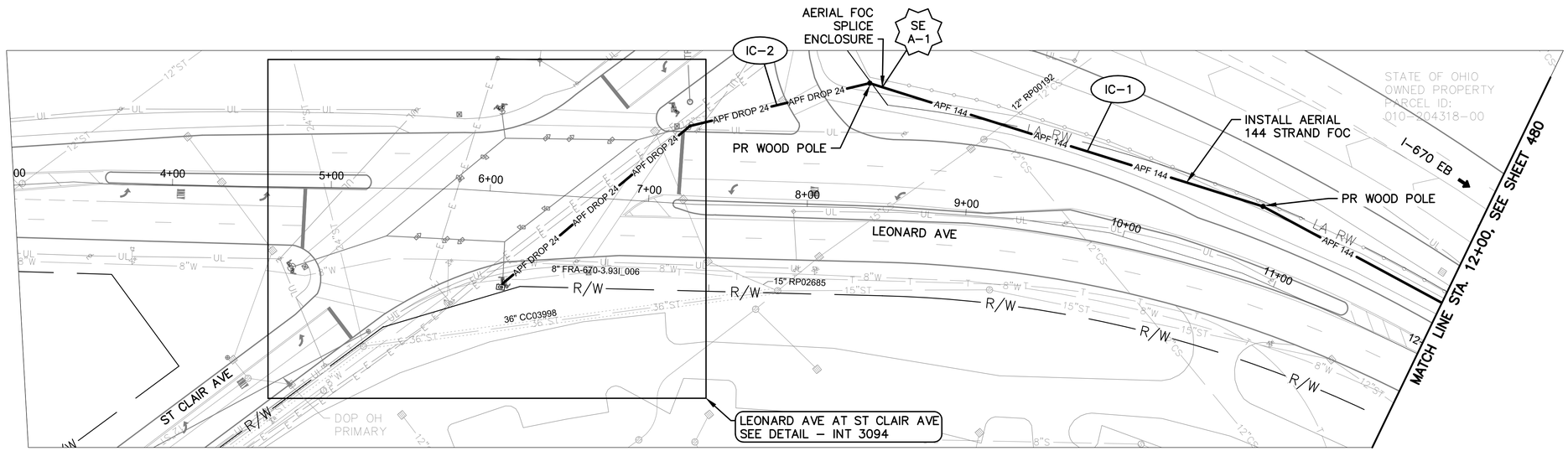
CIP: 540007–100012
PID NUMBER: 99733

CHAMPION AVE BETWEEN STA. 2+00 & 18+00
INTS 2110, 2106, 2035

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

478
915

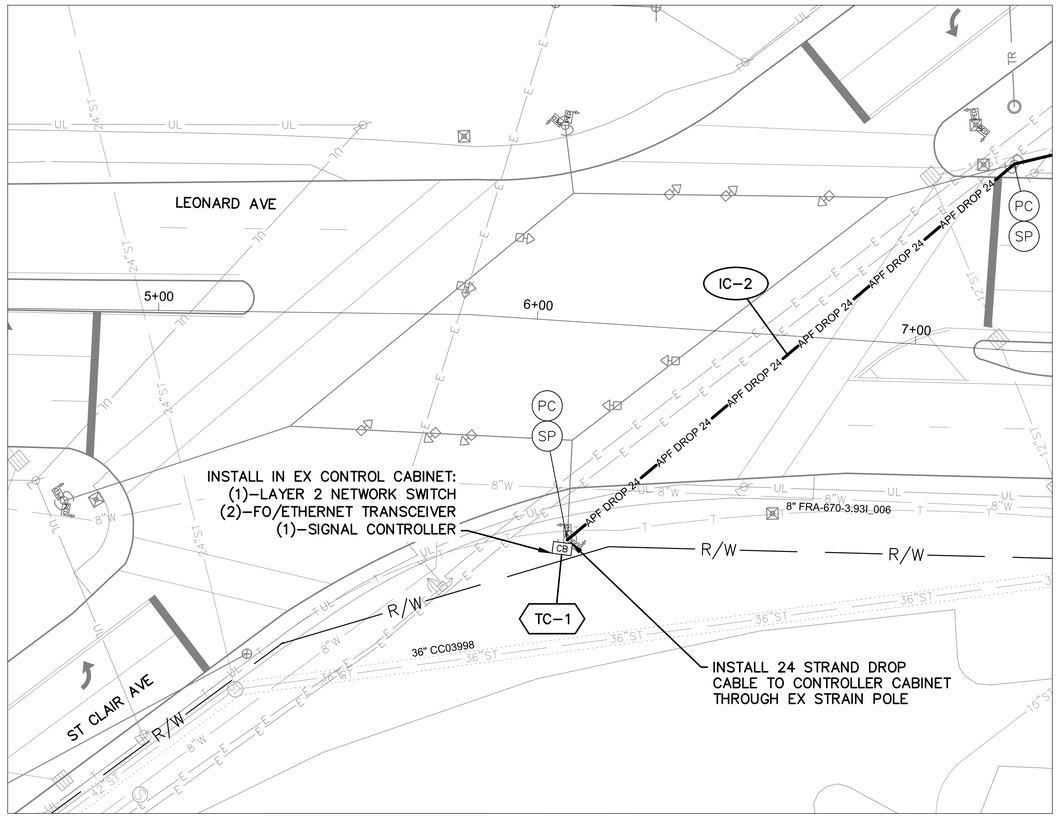
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LEONARD AVE BETWEEN STATION 3+00 AND 12+00

NOTES:

1. SEE SHEET 484 FOR QUANTITIES.
2. SEE SHEETS 622 & 749 FOR COMMUNICATION DETAILS.



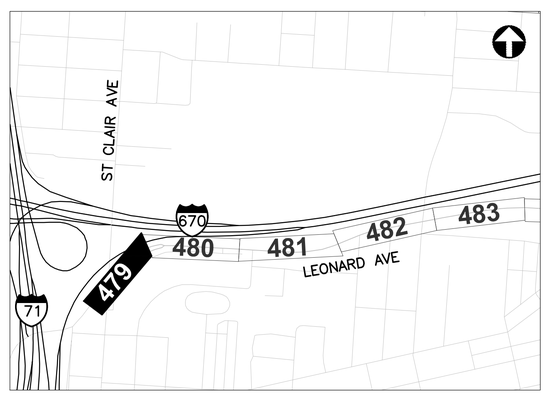
DETAIL - INT 3094

0 20 40
HORIZONTAL SCALE IN FEET

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CITY OF COLUMBUS UTILITY LEGEND

- SEWER
- WATER
- POWER
- LIGHTING



REFER TO SHEET 317 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

0 40 80
HORIZONTAL SCALE IN FEET

CIP: 540007–100012
PID NUMBER: 99733

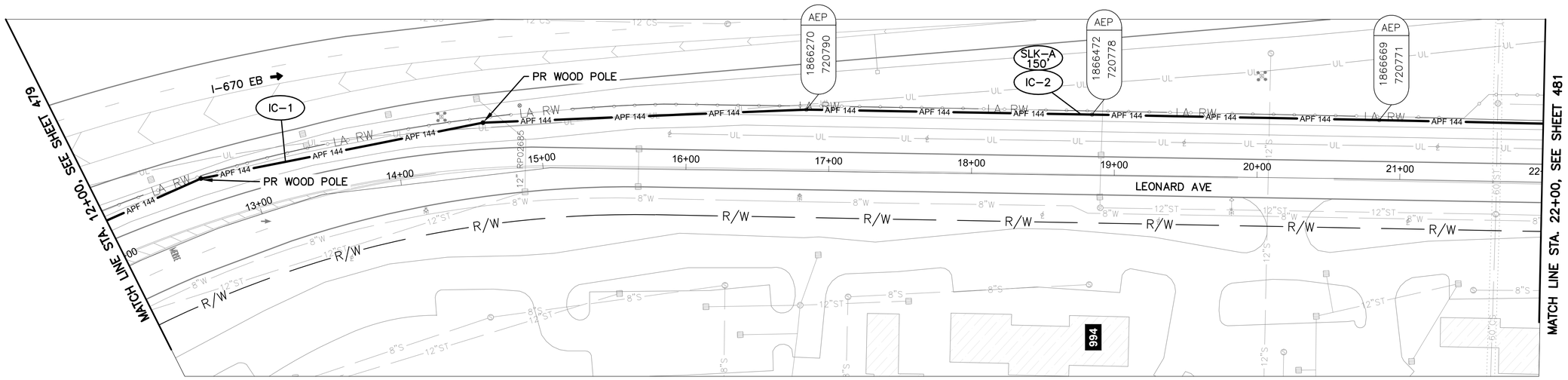
INTERCONNECT PLAN
LEONARD AVE BETWEEN STA. 3+00 AND 12+00, INT 3094

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

479
915

3378-E

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LEONARD AVE BETWEEN STATION 12+00 AND 22+00

NOTES:

1. SEE SHEET 484 FOR QUANTITIES.
2. SEE SHEET 622 FOR COMMUNICATION DETAILS.

(#) EXISTING UTILITY CROSSING. SEE UTILITY CROSSING INFO SHEET 325.

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CITY OF COLUMBUS UTILITY LEGEND

- [x] SEWER
- [x] WATER
- [ ] POWER
- [x] LIGHTING



REFER TO SHEET 317 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

3378-E

HORIZONTAL SCALE IN FEET
0 40 80

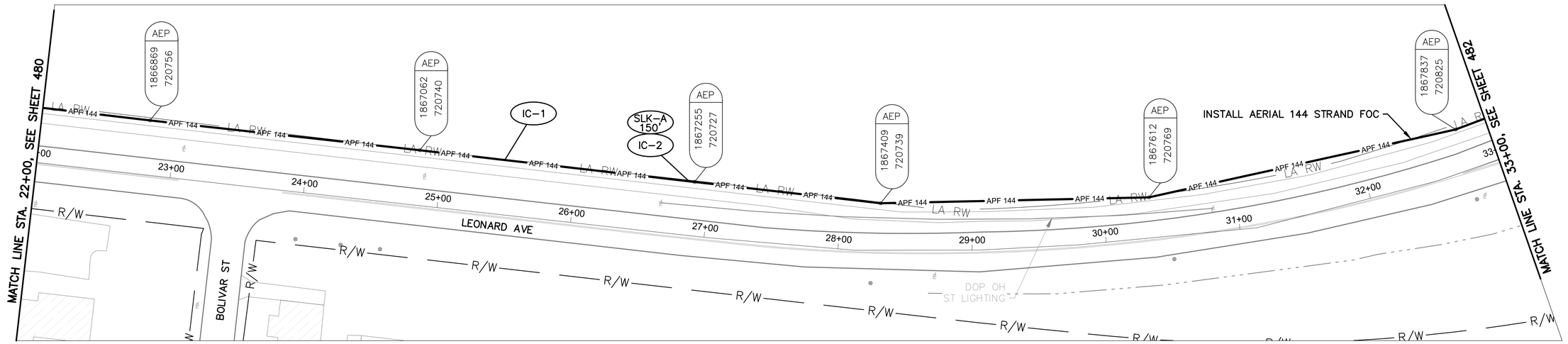
CIP: 540007-100012
PID NUMBER: 99733

INTERCONNECT PLAN
LEONARD AVE BETWEEN STA. 12+00 AND 22+00

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

480
915

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LEONARD AVE BETWEEN STATION 22+00 AND 33+00

NOTES:

1. SEE SHEET 484 FOR QUANTITIES.
2. SEE SHEET 622 FOR COMMUNICATION DETAILS.

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CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☒ LIGHTING



REFER TO SHEET 317 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

3378-E

HORIZONTAL SCALE IN FEET
0 40 80

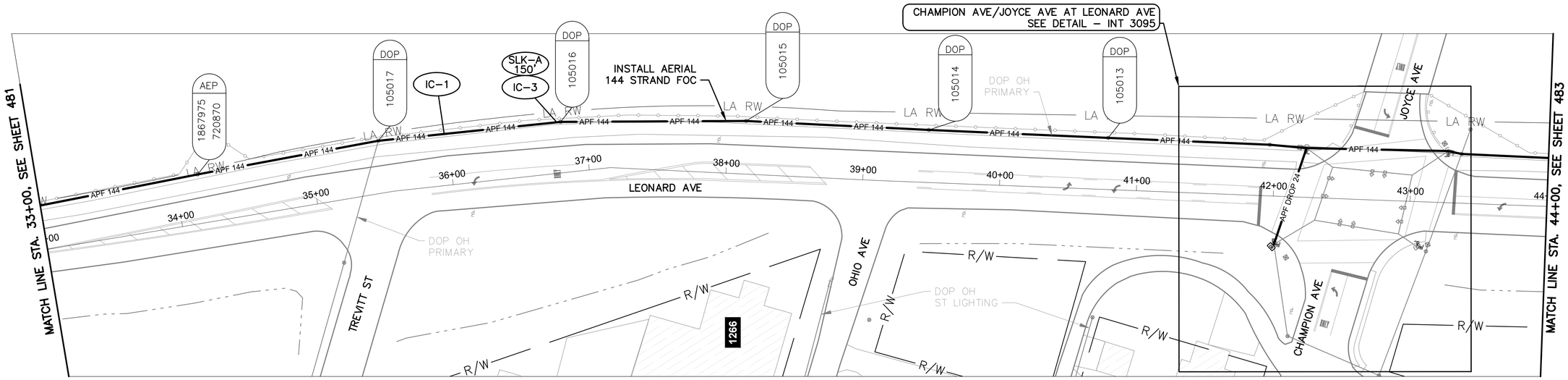
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PID NUMBER: 99733

INTERCONNECT PLAN
LEONARD AVE BETWEEN STA. 22+00 AND 33+00

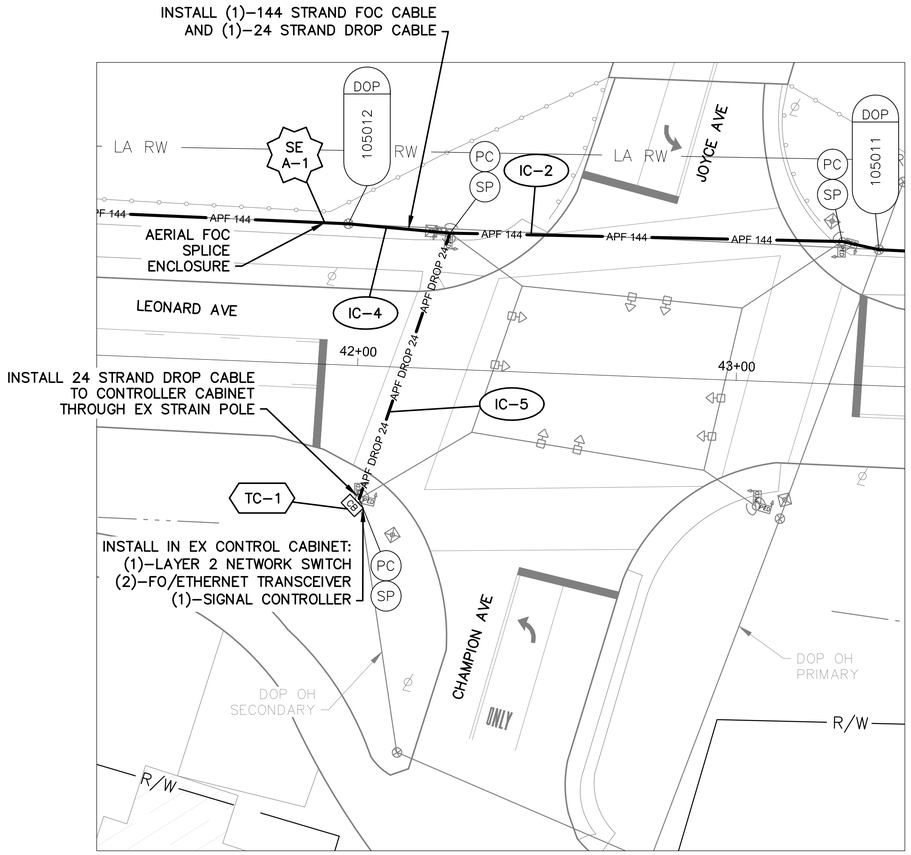
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

481
915

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LEONARD AVE BETWEEN STATION 33+00 AND 44+00



DETAIL - INT 3095

0 20 40

HORIZONTAL
SCALE IN FEET

NOTES:

1. SEE SHEET 484 FOR QUANTITIES.
2. SEE SHEETS 622 & 750 FOR COMMUNICATION DETAILS.
3. EXISTING CONDUIT TO CONTROLLER CABINET IS FULL. INSTALL NEW FLEXIBLE CONDUIT TO CABINET FOR PROPOSED DROP CABLE.

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CITY OF COLUMBUS
UTILITY LEGEND

- SEWER
- WATER
- POWER
- LIGHTING



REFER TO SHEET 317 FOR
INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

0 40 80

HORIZONTAL
SCALE IN FEET

CIP: 540007–100012
PID NUMBER: 99733

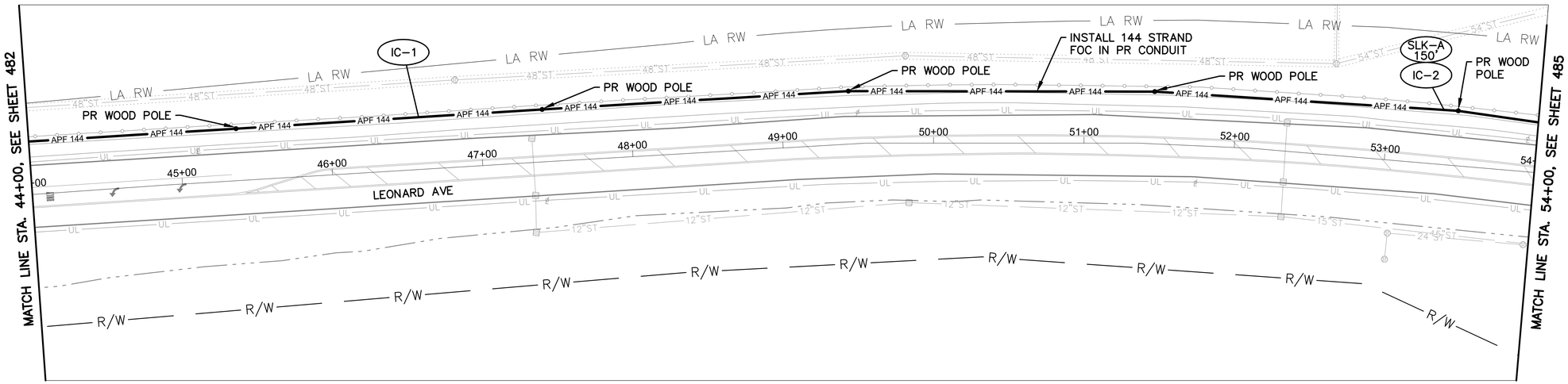
INTERCONNECT PLAN
LEONARD AVE BETWEEN STA. 33+00 AND 44+00, INT 3095

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

3378-E

482
915

J:\Jobs\63721 CTSS Phase E\TECHPROD\Sheets\CTSS_PhE_Trunk4_LEONARD_INTERCONNECT.dwg – LEONARD–4 layout ~ last saved by: gburch 09/13/2018 03:49pm ~ printed 09/13/2018 05:56pm PSLTS: 1 LTS: 1 CAS: 1:1



LEONARD AVE BETWEEN STATION 44+00 AND 54+00

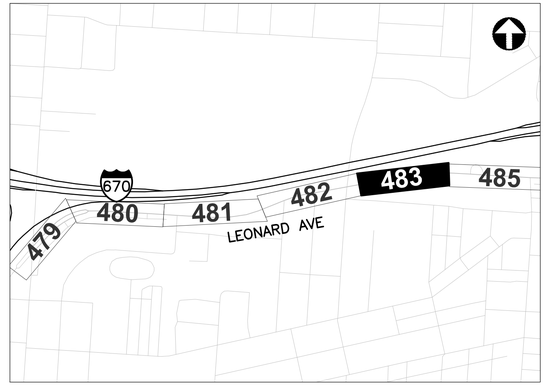
NOTES:

1. SEE SHEET 484 FOR QUANTITIES.
2. SEE SHEET 622 FOR COMMUNICATION DETAILS.

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CITY OF COLUMBUS UTILITY LEGEND

- [X] SEWER
- [ ] WATER
- [ ] POWER
- [X] LIGHTING



REFER TO SHEET 317 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

3378-E

HORIZONTAL SCALE IN FEET
0 40 80

CIP: 540007-100012
PID NUMBER: 99733

INTERCONNECT PLAN
LEONARD AVE BETWEEN STA. 44+00 AND 54+00

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

483
915

J:\Jobs\63721 ctss phase e\TECHPROD\Sheets\CTSS_PhE_Trunk4_LEONARD_INTERCONNECT.dwg – LEONARD-5 layout ~ last saved by gburch 09/06/2018 07:43am ~ printed 09/12/2018 03:24am PSLTS: 1 LTS: 1 CAS: 1:1

ESTIMATED QUANTITIES

SHEET NO.	REFERENCE NO.	LOCATION	STATION		632	632	632	632	632	632	632	633	633	633										
					INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 144 STRAND	INTERCONNECT CABLE, MISC.: FIBER OPTIC DROP CABLE, 24 STRAND	INTERCONNECT CABLE, MISC.: FIBER OPTIC FUSION SPLICE	INTERCONNECT CABLE, MISC.: TERMINATION PANEL, 24 FIBER	INTERCONNECT, MISC.: SPLICE ENCLOSURE, CLAMSHELL, 288 SPLICE	MESSENGER WIRE, 7 STRAND, 1/4" DIAMETER WITH ACCESSORIES, AS PER PLAN	WOOD POLE, CLASS 5, 35 FT	CONTROLLER ITEM, MISC.: FIBER OPTIC ETHERNET TRANSCEIVER, SHORT RANGE	CONTROLLER ITEM, MISC.: LAYER 2 ETHERNET SWITCH	CONTROLLER UNIT, TYPE TS2/A2, AS PER PLAN										
			FROM	TO	FT	FT	EACH	EACH	EACH	FT	EACH	EACH	EACH	EACH										
LEONARD AVE. BETWEEN STA. 3+00 AND 12+00, INT 3094																								
479	IC-2	LEONARD AVE	6+11, 58' RT	8+34, 79' LT		274				274														
479	TC-1	LEONARD AVE	6+11, 58' RT			45		1				2	1	1										
479	SE A-1	LEONARD AVE	8+34, 79' LT		75	125	12		1															
479	IC-1	LEONARD AVE	8+34, 79' LT	12+00, 27' LT	393					393	2													
LEONARD AVE. BETWEEN STA. 12+00 AND 22+00																								
480	IC-1	LEONARD AVE	12+00, 27' LT	22+00, 41' LT	1,032					1,032	2													
480	IC-2	LEONARD AVE	18+76, 42' LT		150																			
LEONARD AVE. BETWEEN STA. 22+00 AND 33+00																								
481	IC-1	LEONARD AVE	22+00, 41' LT	33+00, 32' LT	1,100					1,100														
481	IC-2	LEONARD AVE	26+84, 40' LT		150																			
LEONARD AVE. BETWEEN STA. 33+00 AND 44+00, INT 3095																								
482	IC-1	LEONARD AVE	33+00, 32' LT	41+96, 37' LT	918					918														
482	IC-3	LEONARD AVE	36+80, 37' LT		150																			
482	SE A-1	LEONARD AVE	41+96, 37' LT		150	125	24		1															
482	IC-4	LEONARD AVE	41+96, 37' LT	42+22, 36' LT		27																		
482	IC-2	LEONARD AVE	41+96, 37' LT	44+00, 35' LT	142					142														
482	IC-5	LEONARD AVE	42+01, 35' RT	42+22, 36' LT		75				75														
482	TC-1	LEONARD AVE	42+01, 35' RT			45		1				2	1	1										
LEONARD AVE. BETWEEN STA. 44+00 AND 54+00																								
483	IC-1	LEONARD AVE	44+00, 35' LT	54+00, 33' LT	1,020					1,020	5													
483	IC-2	LEONARD AVE	53+37, 36' LT		150																			
SHEET TOTAL					5,430	716	36	2	2	4,954	9	4	2	2	-	-	-	-	-	-	-	-	-	-

AERIAL SAG: 1.5% AERIAL SAG IS INCLUDED IN THE QUANTITIES FOR ANY AERIAL FIBER OR CABLE ITEMS.

3378-E

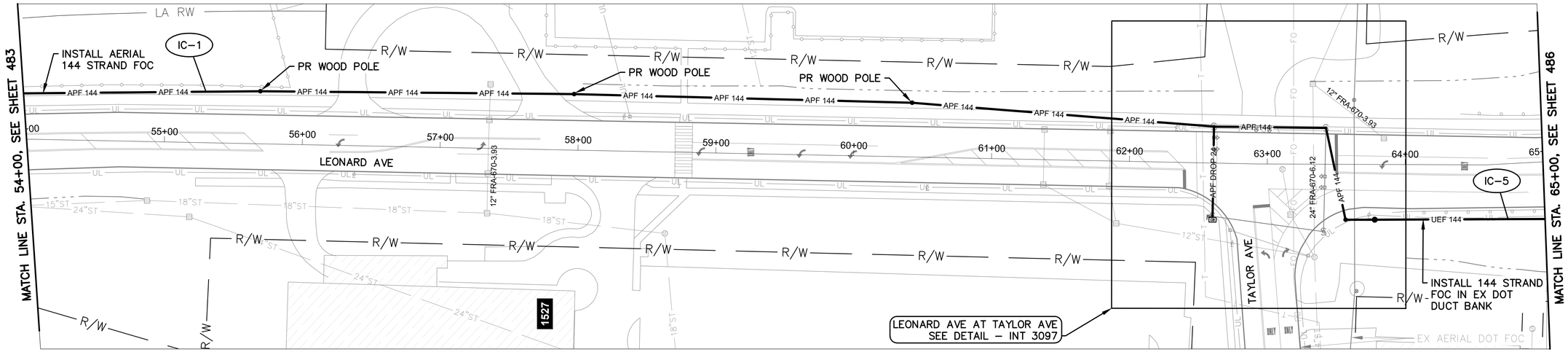
CIP: 540007–100012
PID NUMBER: 99733

LEONARD AVE BETWEEN STA. 3+00 & 54+00
INTS 3094, 3095

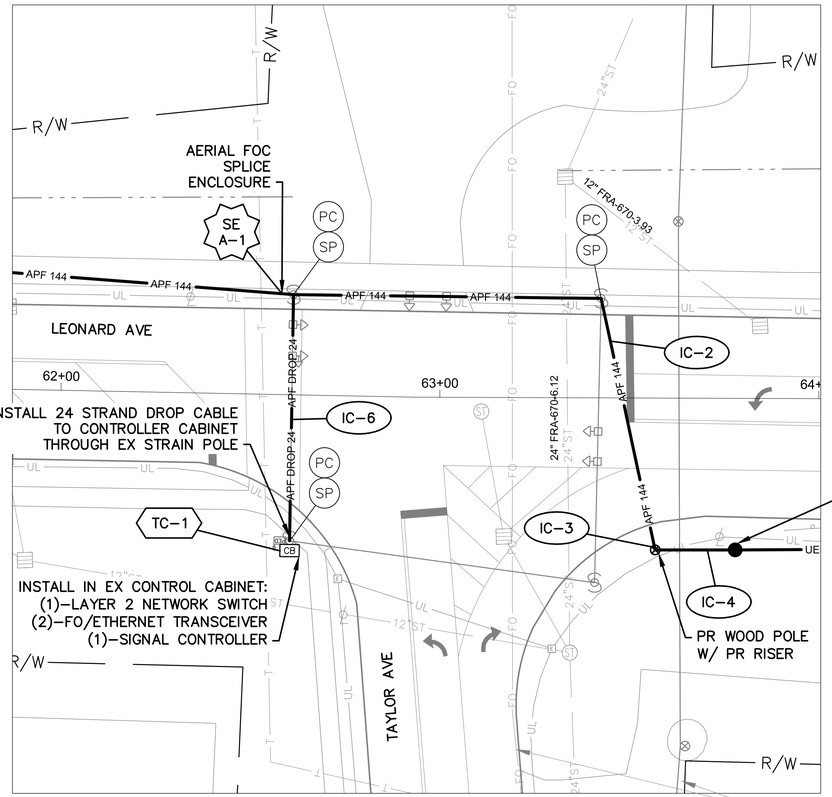
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

484
915

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LEONARD AVE BETWEEN STATION 54+00 AND 65+00



DETAIL - INT 3097

0 20 40
HORIZONTAL SCALE IN FEET

NOTES:

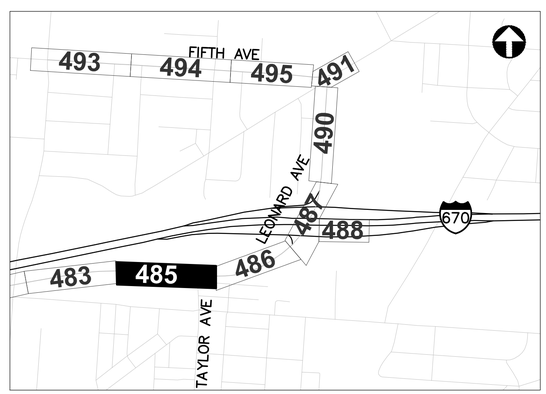
1. SEE SHEET 489 FOR QUANTITIES.
2. SEE SHEETS 622 & 751 FOR COMMUNICATION DETAILS.
3. EXISTING CONDUIT TO CONTROLLER CABINET IS FULL. INSTALL NEW FLEXIBLE CONDUIT TO CABINET FOR PROPOSED DROP CABLE.

(#) EXISTING UTILITY CROSSING. SEE UTILITY CROSSING INFO SHEET 325.

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CITY OF COLUMBUS UTILITY LEGEND

☒	SEWER
☐	WATER
☐	POWER
☒	LIGHTING



REFER TO SHEET 317 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

0 40 80
HORIZONTAL SCALE IN FEET

CIP: 540007–100012
PID NUMBER: 99733

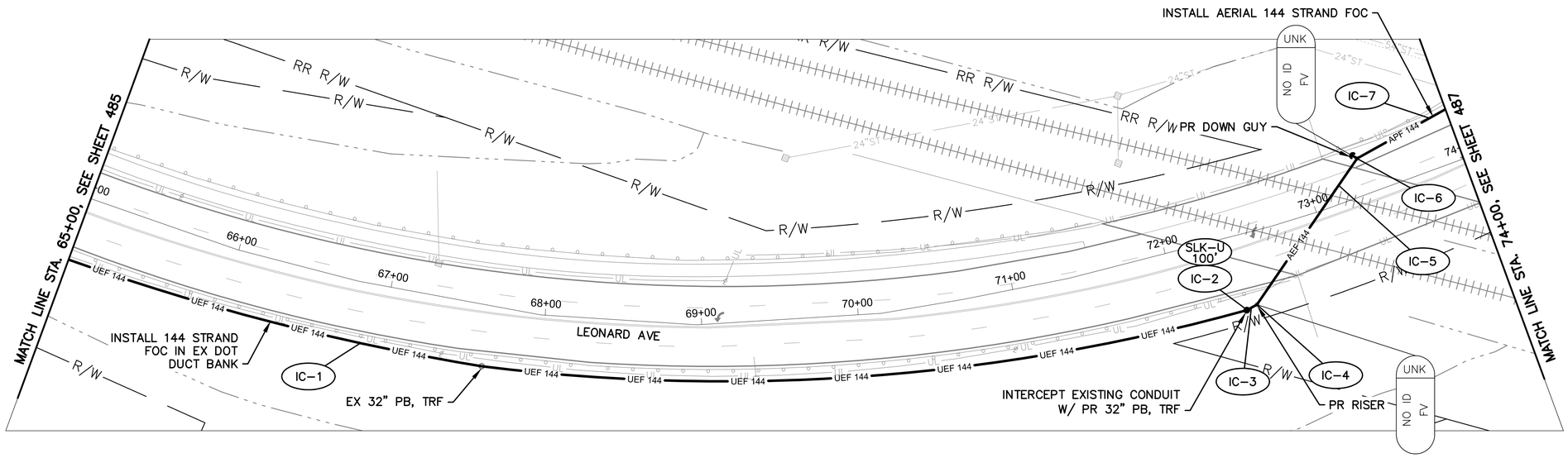
INTERCONNECT PLAN
LEONARD AVE BETWEEN STA. 54+00 AND 65+00, INT 3097

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

485
915

3378-E

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LEONARD AVE BETWEEN STATION 65+00 AND 74+00

NOTES:

1. SEE SHEET 489 FOR QUANTITIES.
2. SEE SHEET 622 FOR COMMUNICATION DETAILS.
3. SEE SHEET 50 FOR INTERCEPTING CONDUIT DETAILS.
4. SEE SHEET 24 FOR RAILROAD COORDINATION DETAILS.

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CITY OF COLUMBUS UTILITY LEGEND

☒	SEWER
☐	WATER
☐	POWER
☒	LIGHTING



REFER TO SHEET 317 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

1 REVISION 1.0
11-02-2018

3378-E

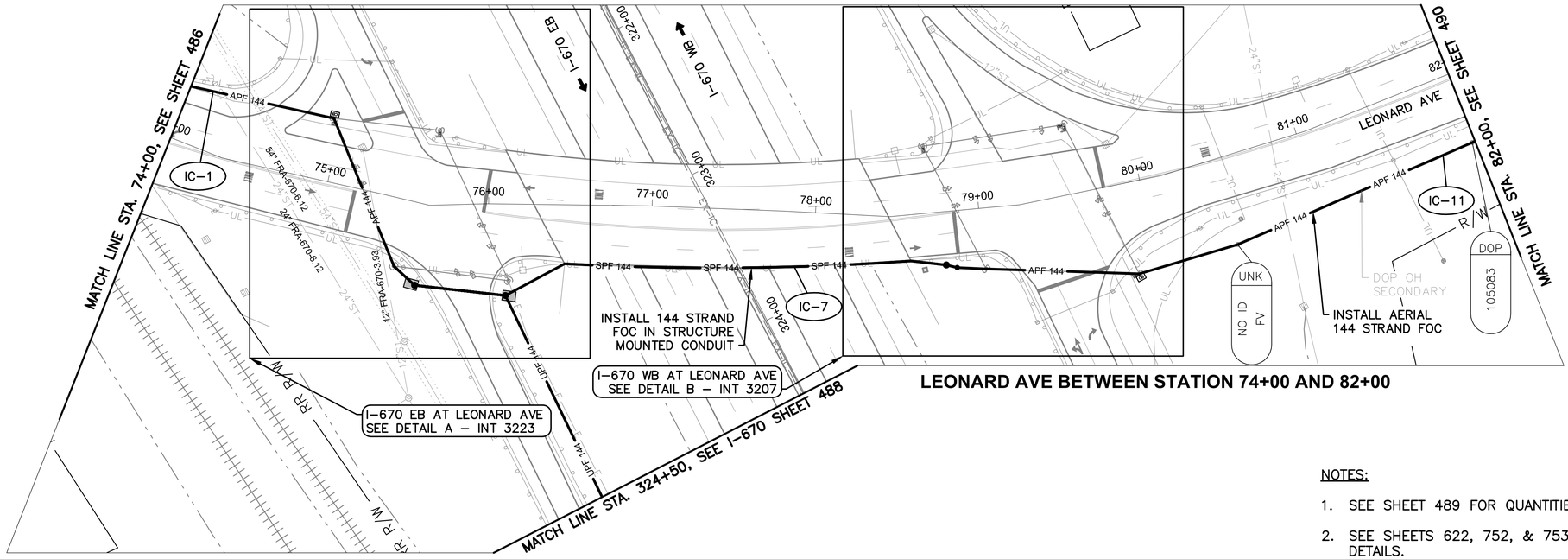
HORIZONTAL SCALE IN FEET
0 40 80

CIP: 540007-100012
PID NUMBER: 99733

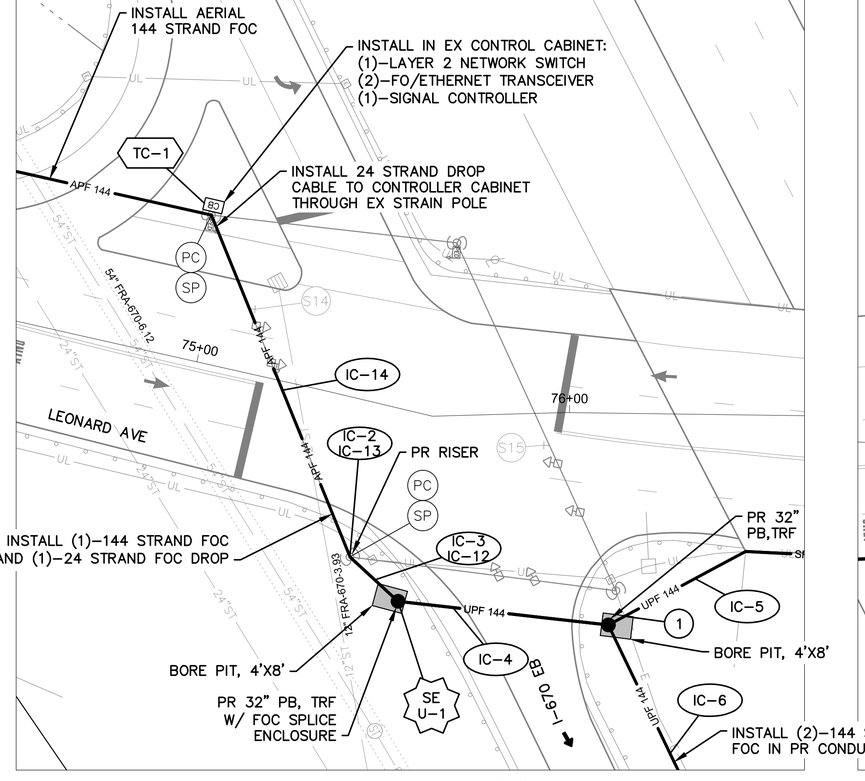
INTERCONNECT PLAN
LEONARD AVE BETWEEN STA. 65+00 AND 74+00

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

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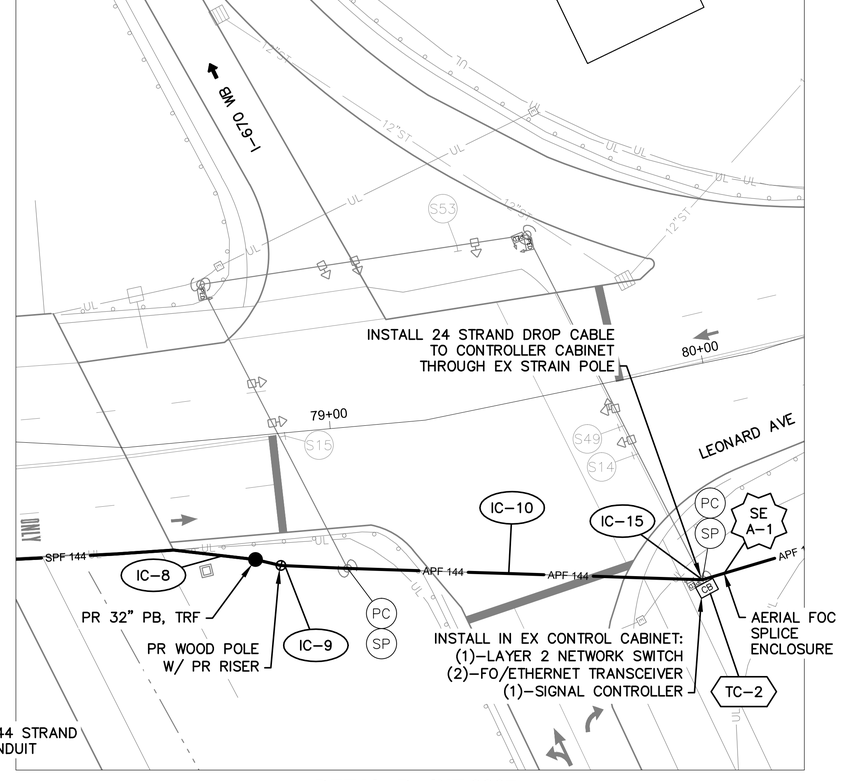
LEONARD AVE BETWEEN STATION 74+00 AND 82+00



DETAIL A - INT 3223

0 20 40

HORIZONTAL SCALE IN FEET



DETAIL B - INT 3207

0 20 40

HORIZONTAL SCALE IN FEET

NOTES:

1. SEE SHEET 489 FOR QUANTITIES.
2. SEE SHEETS 622, 752, & 753 FOR COMMUNICATION DETAILS.
3. EXISTING CONDUIT TO CONTROLLER CABINET IS FULL. INSTALL NEW FLEXIBLE CONDUIT TO CABINET FOR PROPOSED DROP CABLE AT INT 3223 AND 3207.
4. LIMITED ACCESS RIGHT OF WAY IS LOCATED OUTSIDE OF THE EXTENT OF VIEW SHOWN ABOVE.

(#) EXISTING UTILITY CROSSING. SEE UTILITY CROSSING INFO SHEET 325.

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CITY OF COLUMBUS UTILITY LEGEND

- X SEWER
- □ WATER
- X POWER
- X LIGHTING



REFER TO SHEET 317 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

HORIZONTAL SCALE IN FEET 0 40 80

CIP: 540007-100012
PID NUMBER: 99733

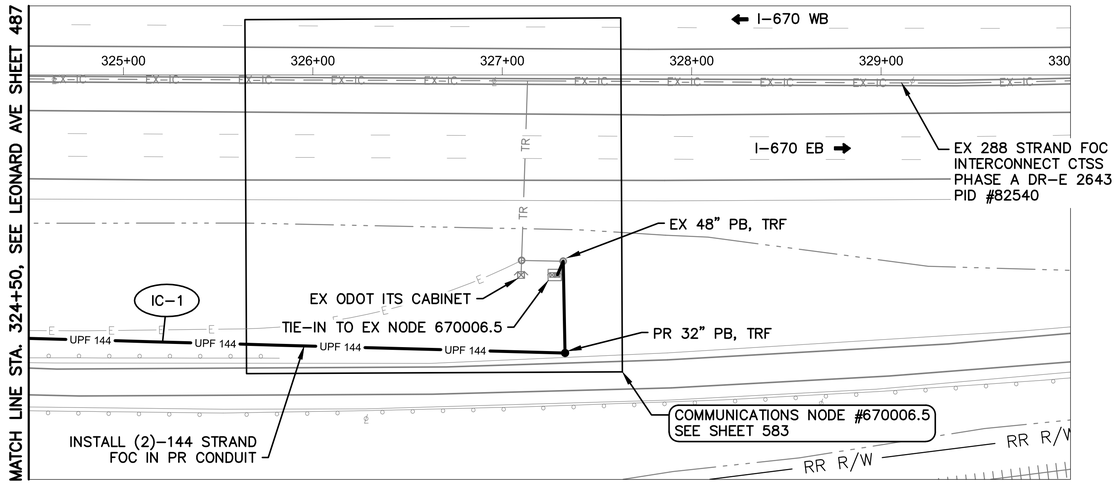
INTERCONNECT PLAN
LEONARD AVE BETWEEN STA. 74+00 AND 82+00, INTS 3223 AND 3207

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E - FINAL SUBMITTAL

487
915

3378-E

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I-670 BETWEEN STATION 324+50 AND 330+00

NOTES:

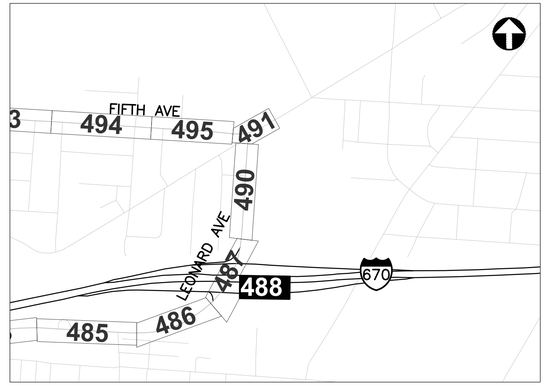
1. SEE SHEET 489 FOR QUANTITIES.
2. SEE SHEET 622 FOR COMMUNICATION DETAILS.
3. LIMITED ACCESS RIGHT OF WAY IS LOCATED OUTSIDE OF THE EXTENT OF VIEW SHOWN ABOVE.

(#) EXISTING UTILITY CROSSING.
SEE UTILITY CROSSING INFO
SHEET 325.

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CITY OF COLUMBUS
UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 317 FOR
INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

3378-E

HORIZONTAL
SCALE IN FEET
0 40 80

CIP: 540007-100012
PID NUMBER: 99733

INTERCONNECT PLAN
I-670 BETWEEN STA. 324+50 AND 330+00

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

488
915

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ESTIMATED QUANTITIES

SHEET NO.	REFERENCE NO.	LOCATION	STATION		202	625	625	625	625	625	632	632	632	632	632	632	632	632	632	633	633	633	
					EXISTING CONDUIT CLEANED, AS PER PLAN	CONDUIT, CONCRETE ENCASED, 2-3", 725.05, AS PER PLAN	CONDUIT, JACKED OR DRILLED, 3", AS PER PLAN	CONDUIT, MISC.: 4" CONDUIT, FIBER-GLASS REINFORCED, ATTACHED TO STRUCTURE	PULL BOX, CONCRETE 32", AS PER PLAN	TRENCH, 36" DEEP, AS PER PLAN	CONDUIT RISER, 2", 725.04, AS PER PLAN	DOWN GUY	INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 144 STRAND	INTERCONNECT CABLE, MISC.: FIBER OPTIC DROP CABLE, 24 STRAND	INTERCONNECT CABLE, MISC.: FIBER OPTIC FUSION SPLICE	INTERCONNECT CABLE, MISC.: OVERLASH TO EXISTING INTERCONNECT	INTERCONNECT CABLE, MISC.: TERMINATION PANEL, 24 FIBER	INTERCONNECT, MISC.: SPLICE ENCLOSURE, CLAMSHELL, 288 SPLICE	MESSENGER WIRE, 7 STRAND, 1/4" DIAMETER WITH ACCESSORIES, AS PER PLAN	WOOD POLE, CLASS 5, 35 FT	CONTROLLER ITEM, MISC.: FIBER OPTIC ETHERNET TRANSCEIVER, SHORT RANGE	CONTROLLER ITEM, MISC.: LAYER 2 ETHERNET SWITCH	CONTROLLER UNIT, TYPE TS2/A2, AS PER PLAN	
			FROM	TO	FT	FT	FT	FT	EACH	FT	EACH	EACH	FT	FT	EACH	FT	EACH	EACH	FT	EACH	EACH	EACH	EACH	
LEONARD AVE. BETWEEN STA. 54+00 AND 65+00, INT 3097																							
485	IC-1	LEONARD AVE	54+00, 33' LT	62+61, 26' LT									877						877	3				
485	SE A-1	LEONARD AVE	62+61, 26' LT										150	125	24			1						
485	IC-2	LEONARD AVE	62+61, 26' LT	63+57, 40' RT									151						151					
485	TC-1	LEONARD AVE	62+61, 39' RT											45			1				2	1	1	
485	IC-6	LEONARD AVE	62+61, 26' LT	62+61, 39' RT										66					66					
485	IC-3	LEONARD AVE	63+57, 40' RT								1		35							1				
485	IC-4	LEONARD AVE	63+57, 40' RT	63+78, 34' RT		23			1	23			23											
485	IC-5	LEONARD AVE	63+78, 34' RT	65+00, 37' RT	123								123											
LEONARD AVE. BETWEEN STA. 65+00 AND 74+00																								
486	IC-1	LEONARD AVE	65+00, 37' RT	72+55, 40' RT	776								776											
486	IC-4	LEONARD AVE	72+49, 46' RT								1		35											
486	IC-3	LEONARD AVE	72+49, 46' RT	72+55, 40' RT		8				8			8											
486	IC-5	LEONARD AVE	72+49, 46' RT	73+36, 24' LT									115			115								
486	IC-2	LEONARD AVE	72+55, 40' RT						1				100											
486	IC-6	LEONARD AVE	73+36, 24' LT									1												
486	IC-7	LEONARD AVE	73+36, 24' LT	74+00, 34' LT									66						66					
LEONARD AVE. BETWEEN STA. 74+00 AND 82+00, INTS 3223 & 3207																								
487	IC-1	LEONARD AVE	74+00, 34' LT	75+51, 41' RT									190						190					
487	TC-1	LEONARD AVE	74+95, 39' LT											45			1				2	1	1	
487	IC-14	LEONARD AVE	74+95, 39' LT	75+51, 41' RT										98										
487	IC-2	LEONARD AVE	75+51, 41' RT								1		35											
487	IC-13	LEONARD AVE	75+51, 41' RT											35										
487	IC-3	LEONARD AVE	75+51, 41' RT	75+64, 50' RT		17				17			17											
487	IC-12	LEONARD AVE	75+51, 41' RT	75+64, 50' RT										17										
487	IC-4	LEONARD AVE	75+64, 50' RT	76+11, 56' RT			112						56											
487	SE U-1	LEONARD AVE	75+64, 50' RT						1				150	125	24			1						
487	IC-5	LEONARD AVE	76+11, 56' RT	76+50, 36' RT		41			1	41			41											
487	IC-6	LEONARD AVE	76+11, 56' RT	76+72, 178' RT		137				137			274											
487	IC-7	LEONARD AVE	76+50, 36' RT	78+56, 28' RT				424					212											
487	IC-8	LEONARD AVE	78+56, 28' RT	78+83, 35' RT		29			1	29			29											
487	IC-9	LEONARD AVE	78+83, 35' RT								1		35							1				
487	IC-10	LEONARD AVE	78+83, 35' RT	79+88, 56' RT									113						113					
487	SE A-1	LEONARD AVE	79+88, 56' RT										150	125	24			1						
487	IC-15	LEONARD AVE	79+88, 56' RT	79+88, 56' RT										35										
487	TC-2	LEONARD AVE	79+88, 56' RT											10			1				2	1	1	
487	IC-11	LEONARD AVE	79+88, 56' RT	82+00, 44' RT									224						224					
I-670 BETWEEN STA. 324+50 AND 330+00																								
488	IC-1	I-670	324+50, 139' RT	327+32, 98' RT		332			1	332			664											
SHEET TOTAL					899	587	112	424	6	587	4	1	4,649	726	72	115	3	3	1,687	5	6	3	3	-

AERIAL SAG: 1.5% AERIAL SAG IS INCLUDED IN THE QUANTITIES FOR ANY AERIAL FIBER OR CABLE ITEMS.

3378-E

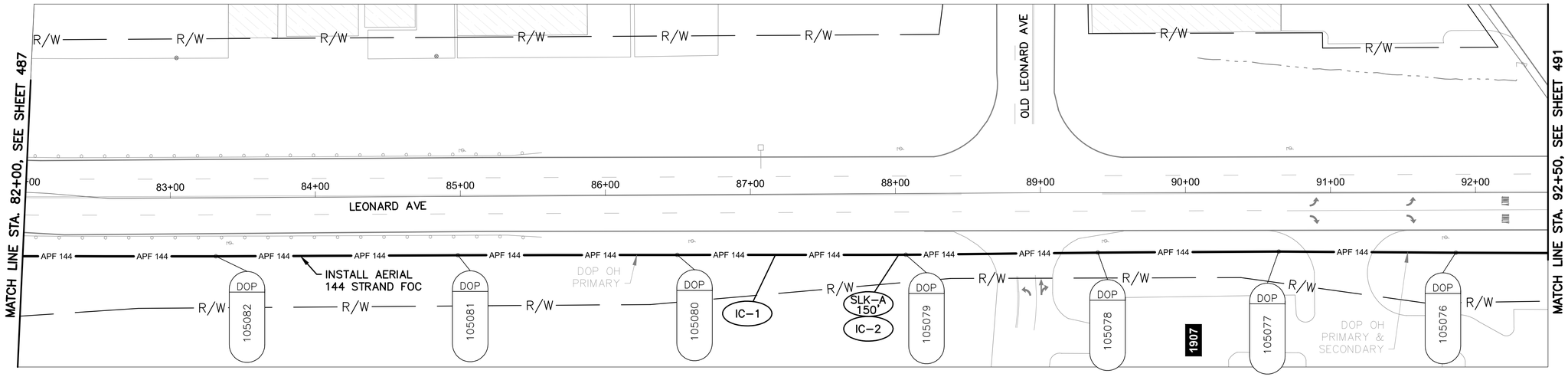
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PID NUMBER: 99733

LEONARD AVE BETWEEN STA. 54+00 & 82+00
I–670 BETWEEN 324+50 & 330+00, INTS 3097, 3223, 3207

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

489
915

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LEONARD AVE BETWEEN STATION 82+00 AND 92+50

NOTES:

1. SEE SHEET 492 FOR QUANTITIES.
2. SEE SHEET 622 FOR COMMUNICATION DETAILS.

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CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☒ POWER
- ☐ LIGHTING



REFER TO SHEET 317 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

HORIZONTAL SCALE IN FEET
0 40 80

CIP: 540007-100012
PID NUMBER: 99733

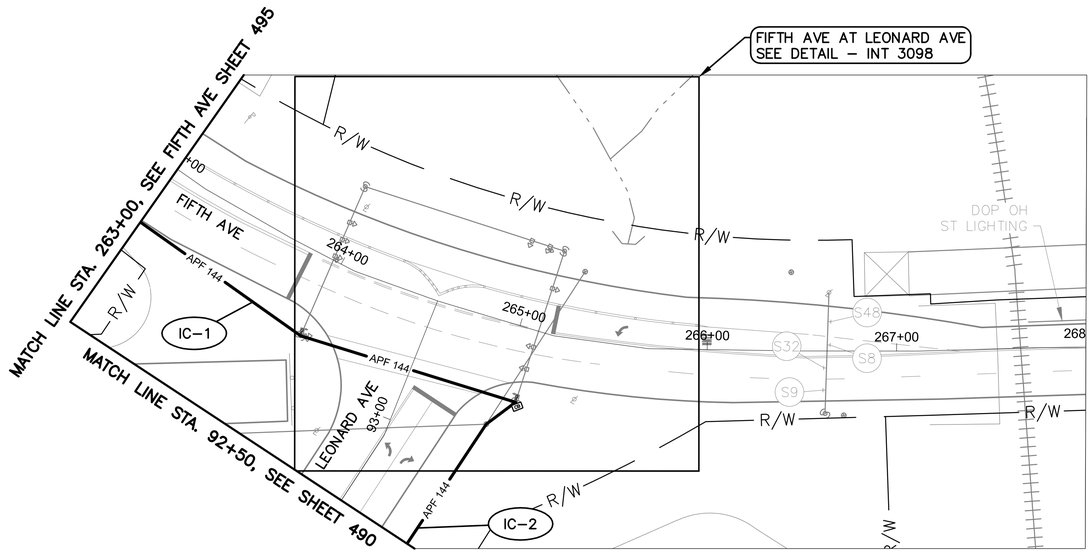
INTERCONNECT PLAN
LEONARD AVE BETWEEN STA. 82+00 AND 92+50

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

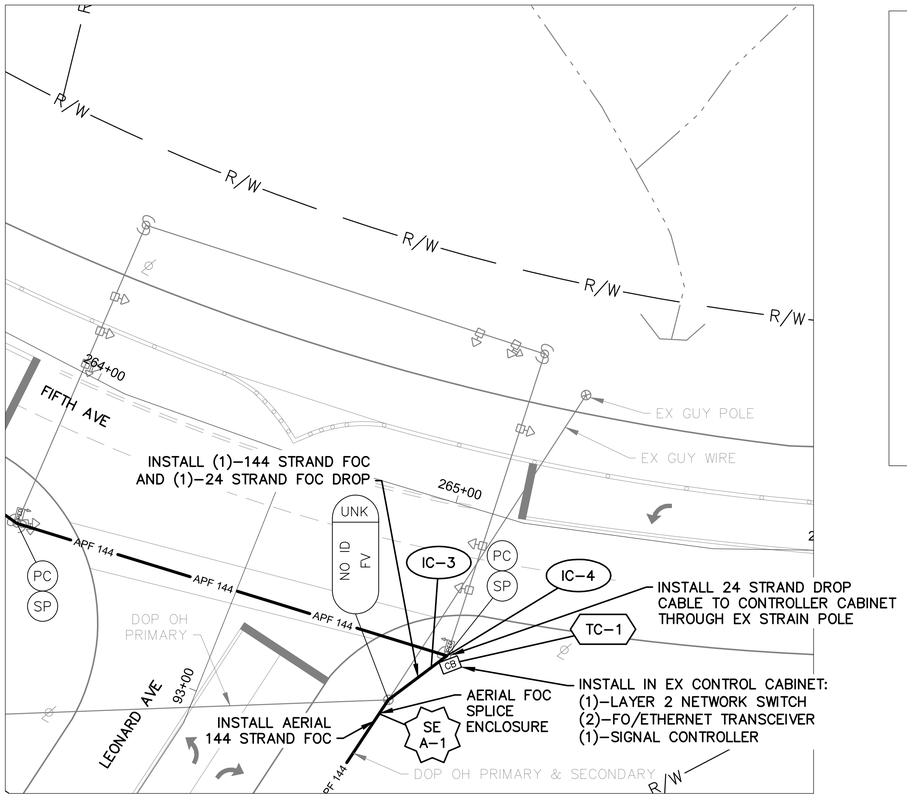
490
915

3378-E

J:\Jobs\63721 ctss phase e\TECHPROD\Sheets\CTSS_PhE_Trunk4_LEONARD_INTERCONNECT.dwg – LEONARD-9 layout ~ last saved by gburch 09/06/2018 07:43am ~ printed 09/12/2018 03:38am PSLTS: 1 LTS: 1 CAS: 1:1

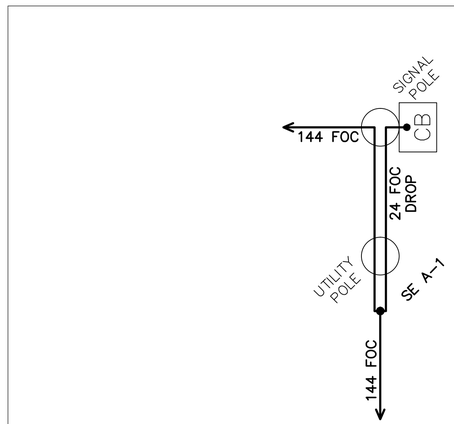


LEONARD AVE AVE BETWEEN STATION 263+00 AND 268+00



DETAIL - INT 3098

0 20 40
HORIZONTAL
SCALE IN FEET



CABLE SCHEMATIC - INT 3098
NOT TO SCALE

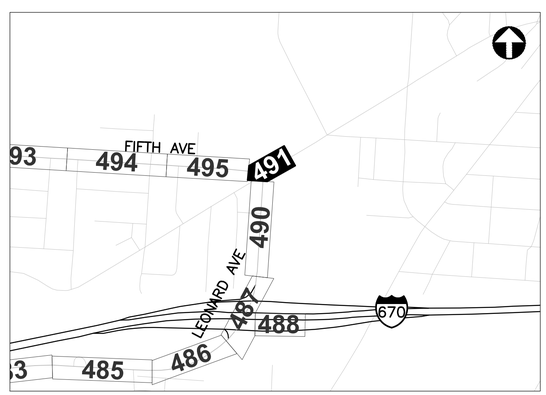
NOTES:

1. SEE SHEET 492 FOR QUANTITIES.
2. SEE SHEETS 622 & 755 FOR COMMUNICATION DETAILS.
3. EXISTING CONDUIT TO CONTROLLER CABINET IS FULL. INSTALL NEW FLEXIBLE CONDUIT TO CABINET FOR PROPOSED DROP CABLE.

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CITY OF COLUMBUS UTILITY LEGEND

☐	SEWER
☐	WATER
☒	POWER
☒	LIGHTING



REFER TO SHEET 317 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

0 40 80
HORIZONTAL
SCALE IN FEET

CIP: 540007–100012
PID NUMBER: 99733

INTERCONNECT PLAN
LEONARD AVE BETWEEN STA. 263+00 AND 268+00, INT 3098

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

491
915

3378-E

J:\Jobs\63721 CTSS Phase E\TECHPROD\Sheets\CTSS_PhE_Trunk4_LEONARD_INTERCONNECT.dwg – LEONARD–10 layout ~ last saved by: gburch 09/13/2018 03:49pm ~ printed 09/13/2018 06:00pm PSLTS: 1 LTS: 1 CAS: 1:1

ESTIMATED QUANTITIES

SHEET NO.	REFERENCE NO.	LOCATION	STATION		632	632	632	632	632	632	633	633	633											
					INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 144 STRAND	INTERCONNECT CABLE, MISC.: FIBER OPTIC DROP CABLE, 24 STRAND	INTERCONNECT CABLE, MISC.: FIBER OPTIC FUSION SPLICE	INTERCONNECT CABLE, MISC.: TERMINATION PANEL, 24 FIBER	INTERCONNECT, MISC.: SPLICE ENCLOSURE, CLAMSHELL, 288 SPLICE	MESSENGER WIRE, 7 STRAND, 1/4" DIAMETER WITH ACCESSORIES, AS PER PLAN	CONTROLLER ITEM, MISC.: FIBER OPTIC ETHERNET TRANSCEIVER, SHORT RANGE	CONTROLLER ITEM, MISC.: LAYER 2 ETHERNET SWITCH	CONTROLLER UNIT, TYPE TS2/A2, AS PER PLAN										
			FROM	TO	FT	FT	EACH	EACH	EACH	FT	EACH	EACH	EACH											
LEONARD AVE. BETWEEN STA. 82+00 AND 92+50																								
490	IC-1	LEONARD AVE	82+00, 44' RT	92+50, 42' RT	1,068					1,068														
490	IC-2	LEONARD AVE	88+02, 42' RT		150																			
FIFTH AVE. BETWEEN STA. 263+00 AND 268+00, INT 3098																								
491	IC-1	FIFTH AVE	263+00, 34' RT	265+09, 39' RT	225					225														
491	IC-2	FIFTH AVE	264+75, 127' RT	265+09, 39' RT	96					96														
491	SE A-1	FIFTH AVE	264+97, 55' RT		150	125	24		1															
491	IC-3	FIFTH AVE	264+97, 55' RT	265+09, 39' RT	19																			
491	IC-4	FIFTH AVE	265+09, 39' RT	265+09, 39' RT		35																		
491	TC-1	FIFTH AVE	265+09, 39' RT			10		1			2	1	1											
SHEET TOTAL					1,708	170	24	1	1	1,389	2	1	1	-	-	-	-	-	-	-	-	-	-	-

AERIAL SAG: 1.5% AERIAL SAG IS INCLUDED IN THE QUANTITIES FOR ANY AERIAL FIBER OR CABLE ITEMS.

3378-E

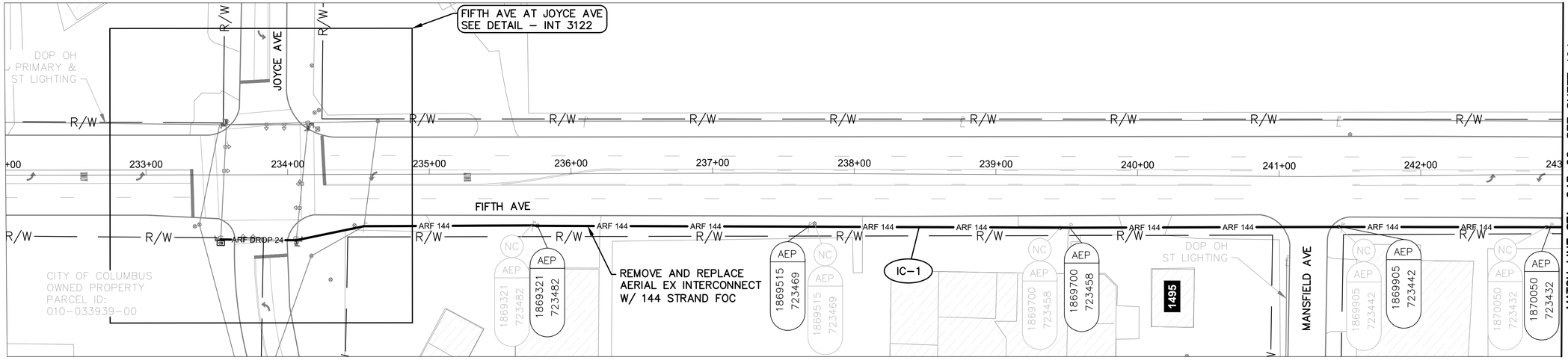
CIP: 540007-100012
PID NUMBER: 99733

LEONARD AVE BETWEEN STA. 82+00 & 92+50
FIFTH AVE BETWEEN STA. 263+00 & 268+00, INT 3098

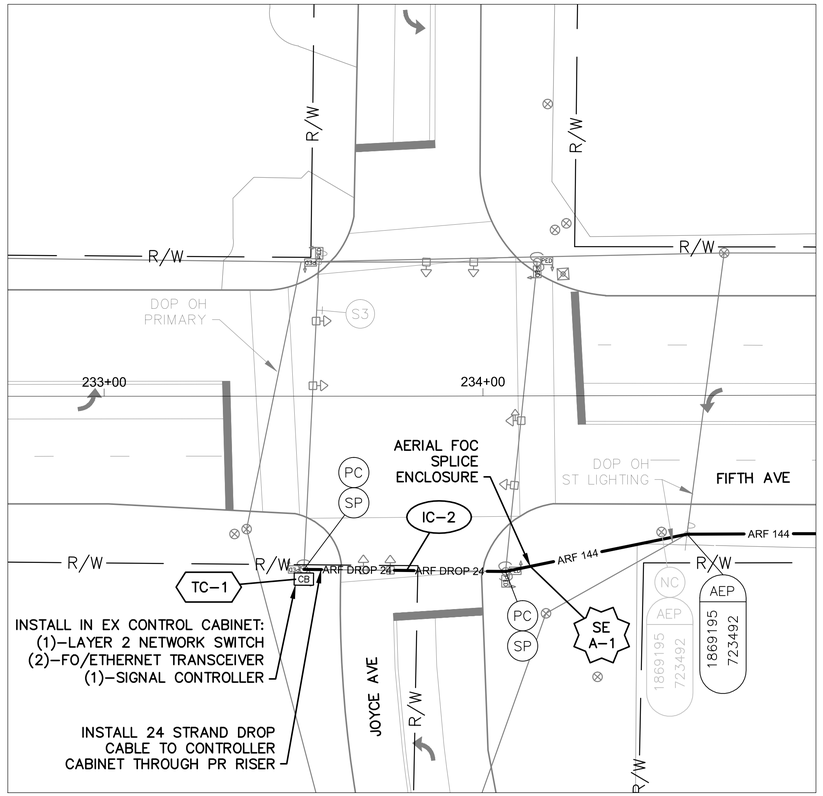
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

492
915

J:\Jobs\63721 CTSS Phase E\TECHPROD\Sheets\CTSS_PhE_Trunk4_LEONARD_IC_QUANTITIES.dwg – LEONARD AVE_Q3 layout ~ last saved by: gburch 03/26/2018 03:03pm ~ printed 09/18/2018 10:33am PSLTS: 1 LTS: 1 CAS: 1:1



FIFTH AVE BETWEEN STATION 232+00 AND 243+00



DETAIL - INT 3122

0 20 40
HORIZONTAL
SCALE IN FEET

NOTES:

1. SEE SHEET 496 FOR QUANTITIES.
2. SEE SHEETS 622 & 754 FOR COMMUNICATION DETAILS.

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CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☒ POWER
- ☒ LIGHTING



REFER TO SHEET 317 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

0 40 80
HORIZONTAL
SCALE IN FEET

CIP: 540007–100012
PID NUMBER: 99733

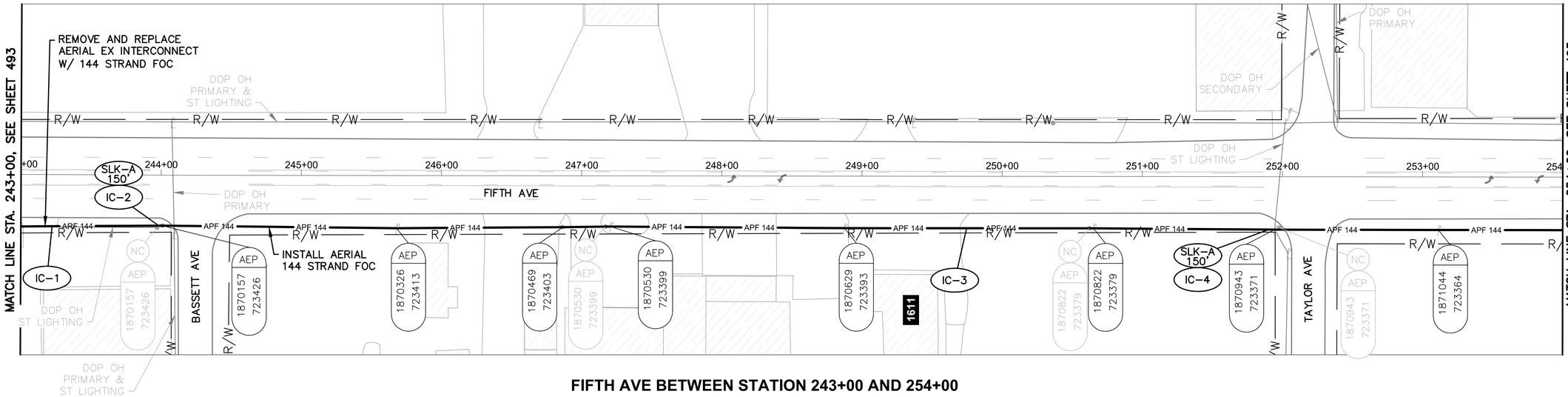
INTERCONNECT PLAN
FIFTH AVE BETWEEN STA. 232+00 AND 243+00, INT 3122

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

493
915

3378-E

J:\Jobs\63721 ctss phase e\TECHPROD\Sheets\CTSS_PhE_Trunk4_FIFTH_INTERCONNECT1.dwg – FIFTH–1 layout ~ last saved by: rwegehaupt 09/07/2018 08:41am ~ printed 09/12/2018 03:44am PSLTS: 1 LTS: 1 CAS: 1:1



FIFTH AVE BETWEEN STATION 243+00 AND 254+00

NOTES:

1. SEE SHEET 496 FOR QUANTITIES.
2. SEE SHEET 622 FOR COMMUNICATION DETAILS.

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www.oups.org

CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☒ POWER
- ☒ LIGHTING



REFER TO SHEET 317 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

HORIZONTAL SCALE IN FEET
0 40 80

CIP: 540007-100012
PID NUMBER: 99733

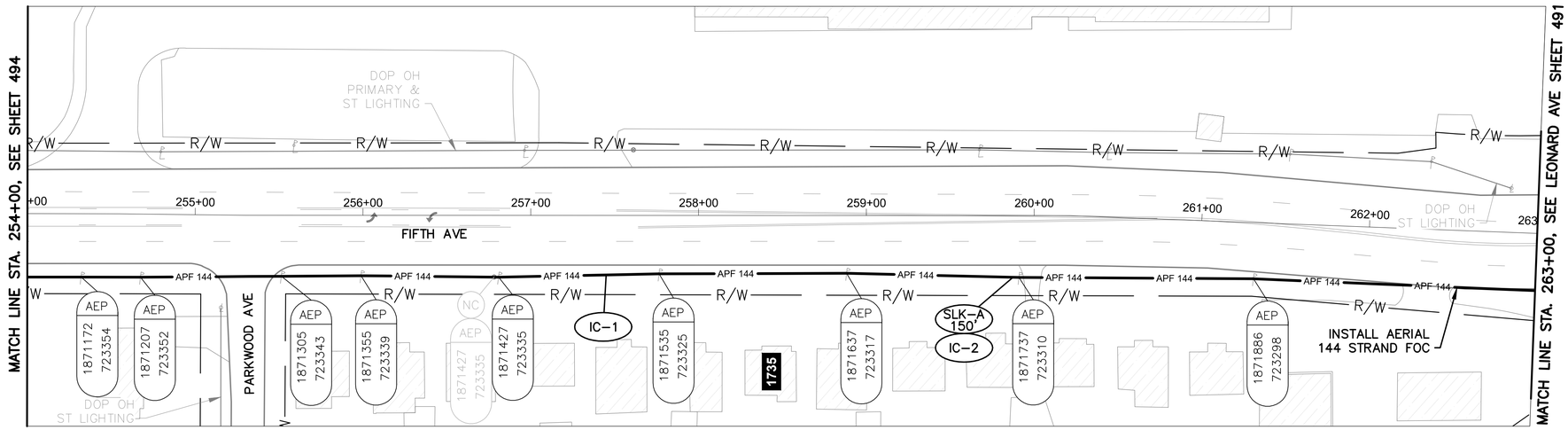
INTERCONNECT PLAN
FIFTH AVE BETWEEN STA. 243+00 AND 254+00

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

494
915

3378-E

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FIFTH AVE BETWEEN STATION 254+00 AND 263+00

NOTES:

1. SEE SHEET 496 FOR QUANTITIES.
2. SEE SHEET 622 FOR COMMUNICATION DETAILS.

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CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☒ POWER
- ☒ LIGHTING



REFER TO SHEET 317 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

HORIZONTAL SCALE IN FEET
0 40 80

CIP: 540007-100012
PID NUMBER: 99733

INTERCONNECT PLAN
FIFTH AVE BETWEEN STA. 254+00 AND 263+00

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

3378-E

495
915

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ESTIMATED QUANTITIES

SHEET NO.	REFERENCE NO.	LOCATION	STATION		632 CONDUIT RISER, 2", 725.04, AS PER PLAN	632 INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 144 STRAND	632 INTERCONNECT CABLE, MISC.: FIBER OPTIC DROP CABLE, 24 STRAND	632 INTERCONNECT CABLE, MISC.: FIBER OPTIC FUSION SPLICE	632 INTERCONNECT CABLE, MISC.: REMOVE EXISTING OVERHEAD INTERCONNECT	632 INTERCONNECT CABLE, MISC.: TERMINATION PANEL, 24 FIBER	632 INTERCONNECT, MISC.: SPLICE ENCLOSURE, CLAMSHELL, 288 SPLICE	632 MESSENGER WIRE, 7 STRAND, 1/4" DIAMETER WITH ACCESSORIES, AS PER PLAN	633 CONTROLLER ITEM, MISC.: FIBER OPTIC ETHERNET TRANSCEIVER, SHORT RANGE	633 CONTROLLER ITEM, MISC.: LAYER 2 ETHERNET SWITCH	633 CONTROLLER UNIT, TYPE TS2/A2, AS PER PLAN
			FROM	TO	EACH	FT	FT	EACH	FT	EACH	EACH	FT	EACH	EACH	EACH
FIFTH AVE. BETWEEN STA. 232+00 AND 243+00, INT 3122															
493	TC-1	FIFTH AVE	233+52, 46' RT		1		45			1			2	1	1
493	IC-2	FIFTH AVE	233+52, 46' RT	234+05, 46' RT			54		53			54			
493	SE A-1	FIFTH AVE	234+05, 46' RT			75	125	12			1				
493	IC-1	FIFTH AVE	234+05, 46' RT	243+00, 37' RT		909			896			909			
FIFTH AVE. BETWEEN STA. 243+00 AND 254+00															
494	IC-1	FIFTH AVE	243+00, 37' RT	243+98, 36' RT		98			98			98			
494	IC-2	FIFTH AVE	243+98, 36' RT			150									
494	IC-3	FIFTH AVE	243+98, 36' RT	254+00, 38' RT		1,019						1,019			
494	IC-4	FIFTH AVE	251+90, 38' RT			150									
FIFTH AVE. BETWEEN STA. 254+00 AND 263+00															
495	IC-1	FIFTH AVE	254+00, 38' RT	263+00, 34' RT		912						912			
495	IC-2	FIFTH AVE	259+87, 37' RT			150									
SHEET TOTAL					1	3,463	224	12	1,047	1	1	2,992	2	1	1

AERIAL SAG: 1.5% AERIAL SAG IS INCLUDED IN THE QUANTITIES FOR ANY AERIAL FIBER OR CABLE ITEMS.

3378-E

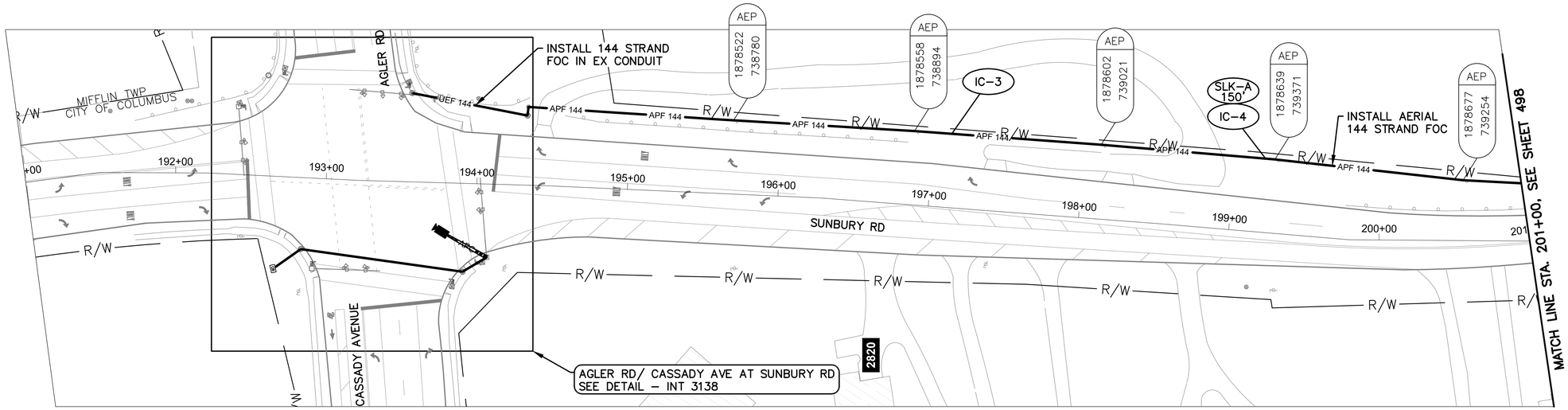
CIP: 540007–100012
PID NUMBER: 99733

FIFTH AVE BETWEEN STA. 232+00 & 263+00
INT 3122

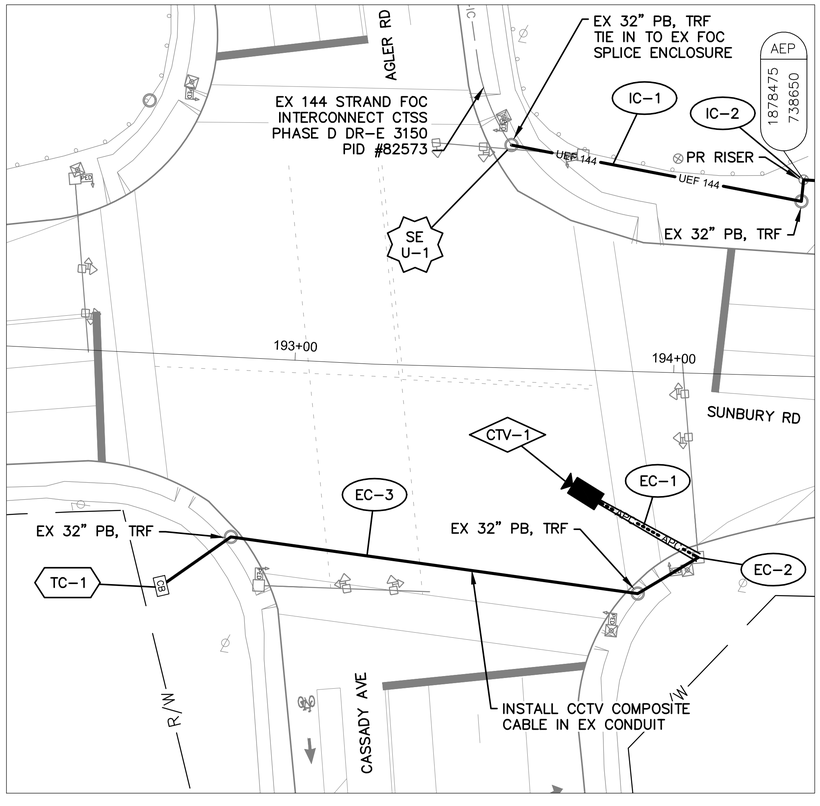
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

496
915

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SUNBURY RD BETWEEN STATION 191+00 AND 201+00



DETAIL - INT 3138

0 20 40
HORIZONTAL
SCALE IN FEET

NOTES:

1. SEE SHEET 500 FOR QUANTITIES.
2. SEE SHEETS 623 & 758 FOR COMMUNICATION DETAILS.

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CITY OF COLUMBUS
UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 317 FOR
INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

0 40 80
HORIZONTAL
SCALE IN FEET

CIP: 540007-100012
PID NUMBER: 99733

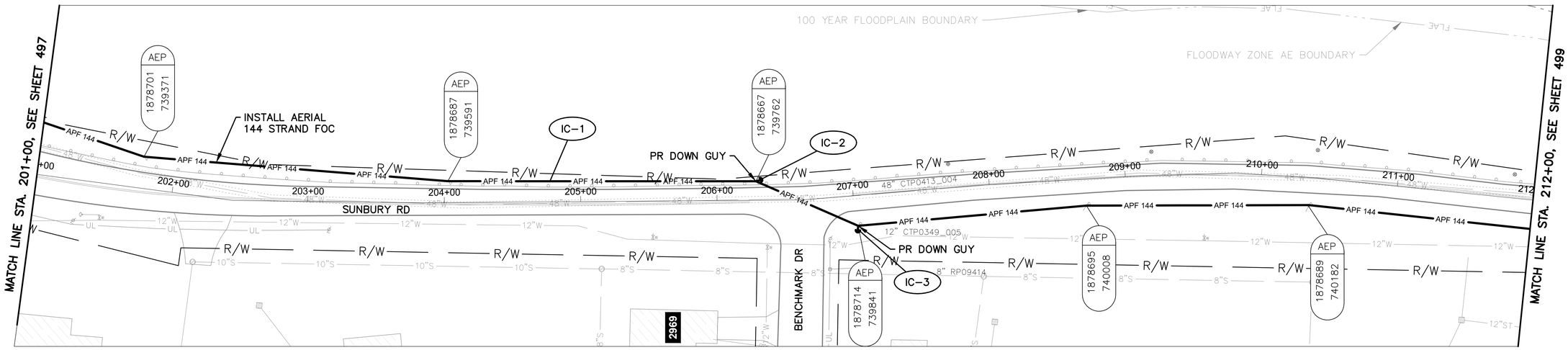
INTERCONNECT PLAN
SUNBURY RD BETWEEN STA. 191+00 AND 201+00, INT 3138

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

3378-E

497
915

J:\Jobs\63721 ctss phase e\TECHPROD\Sheets\CTSS_PhE_Trunk4_SUNBURY_1_INTERCONNECT.dwg – SUNBURY-8 layout ~ last saved by: rwegehaupt 08/28/2018 03:17pm ~ printed 09/12/2018 03:51pm PSLTS: 1 LTS: 1 CAS: 1:1



SUNBURY RD BETWEEN STATION 201+00 AND 212+00

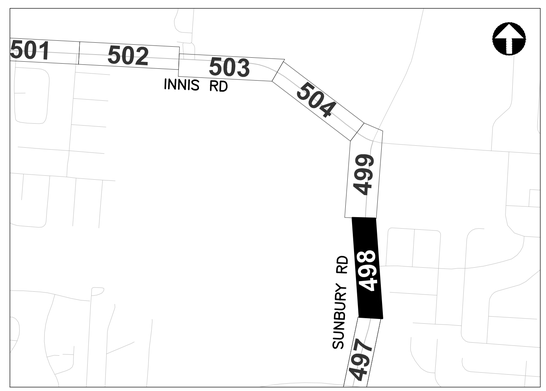
NOTES:

1. SEE SHEET 500 FOR QUANTITIES.
2. SEE SHEET 623 FOR COMMUNICATION DETAILS.

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CITY OF COLUMBUS UTILITY LEGEND

- [X] SEWER
- [X] WATER
- [ ] POWER
- [ ] LIGHTING



REFER TO SHEET 315 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

3378-E

HORIZONTAL SCALE IN FEET
0 40 80

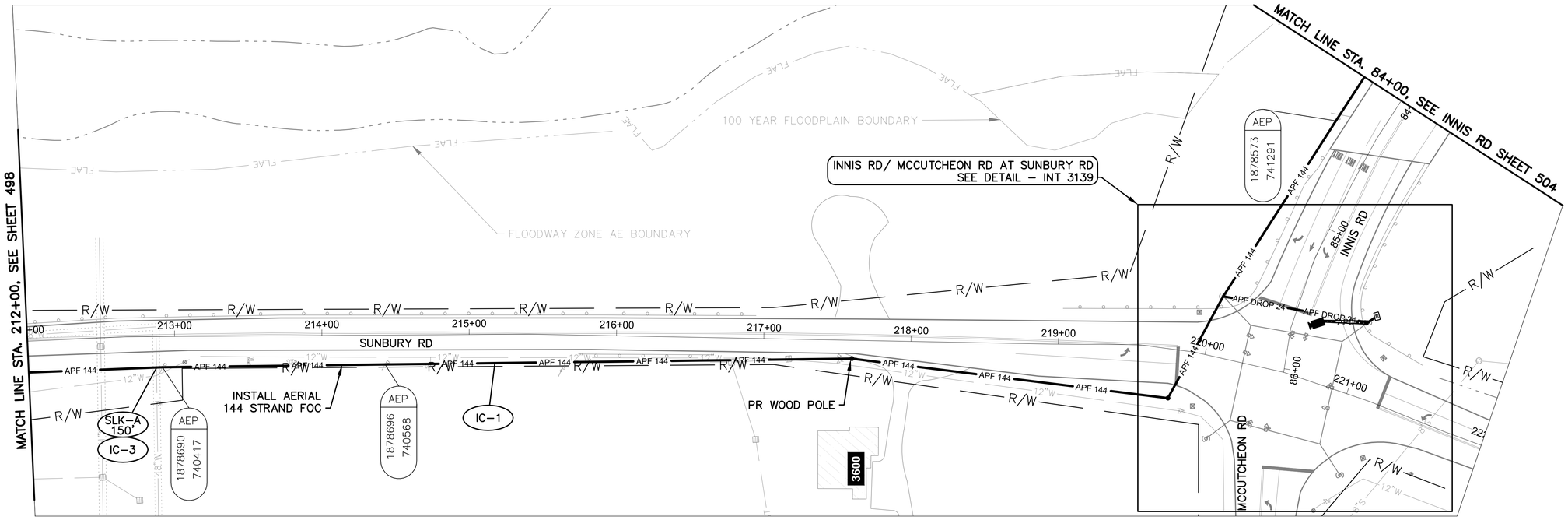
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PID NUMBER: 99733

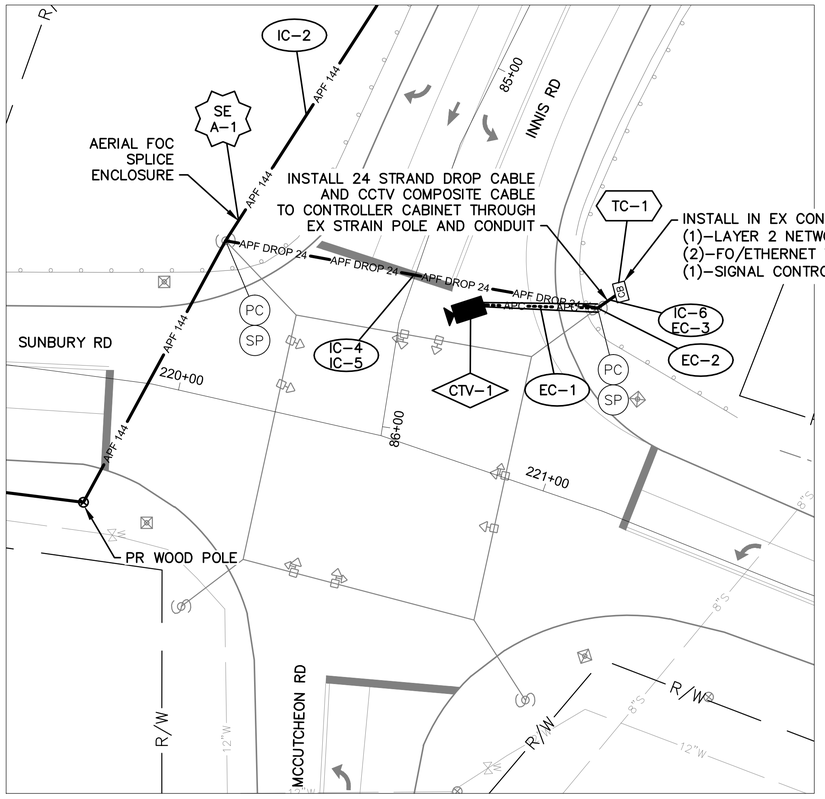
INTERCONNECT PLAN
SUNBURY RD BETWEEN STA. 201+00 AND 212+00

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

498
915

J:\Jobs\63721 ctss phase e\TECHPROD\Sheets\CTSS_PhE_Trunk4_SUNBURY_1_INTERCONNECT.dwg – SUNBURY-9 layout ~ last saved by: rwegehaupt 08/28/2018 03:17pm ~ printed 09/12/2018 03:53am PSLTS: 1 LTS: 1 CAS: 1:1





SUNBURY RD BETWEEN STATION 212+00 AND 222+00

DETAIL - INT 3139

0 20 40
HORIZONTAL
SCALE IN FEET

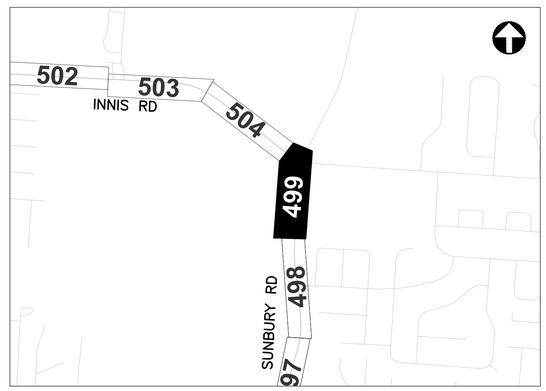
NOTES:

1. SEE SHEET 500 FOR QUANTITIES.
2. SEE SHEETS 623 & 757 FOR COMMUNICATION DETAILS.

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CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☒ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 315 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

0 40 80
HORIZONTAL
SCALE IN FEET

CIP: 540007–100012
PID NUMBER: 99733

INTERCONNECT PLAN
SUNBURY RD BETWEEN STA. 212+00 AND 222+00

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

499
915

3378-E

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ESTIMATED QUANTITIES

SHEET NO.	REFERENCE NO.	LOCATION	STATION		202	625	632	632	632	632	632	632	632	632	632	632	632	633	633	633				
					EXISTING CONDUIT CLEANED, AS PER PLAN	BRACKET ARM, 30', AS PER PLAN	CONDUIT RISER, 2", 725.04, AS PER PLAN	DOWN GUY	INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 144 STRAND	INTERCONNECT CABLE, MISC.: FIBER OPTIC DROP CABLE, 24 STRAND	INTERCONNECT CABLE, MISC.: FIBER OPTIC FUSION SPLICE	INTERCONNECT CABLE, MISC.: TERMINATION PANEL, 24 FIBER	INTERCONNECT, MISC.: SPLICE ENCLOSURE, CLAMSHELL, 288 SPLICE	MESSENGER WIRE, 7 STRAND, 1/4" DIAMETER WITH ACCESSORIES, AS PER PLAN	SIGNALIZATION, MISC.: CCTV COMPOSITE CABLE	SIGNALIZATION, MISC.: CCTV IP-CAMERA SYSTEM	WOOD POLE, CLASS 5, 35 FT	CONTROLLER ITEM, MISC.: FIBER OPTIC ETHERNET TRANSCEIVER, SHORT RANGE	CONTROLLER ITEM, MISC.: LAYER 2 ETHERNET SWITCH	CONTROLLER UNIT, TYPE TS2/A2, AS PER PLAN				
			FROM	TO	FT	EACH	EACH	EACH	FT	FT	EACH	EACH	EACH	FT	FT	EACH	EACH	EACH	EACH	EACH				
SUNBURY RD. BETWEEN STA. 191+00 AND 201+00, INT 3138																								
497	TC-1	SUNBURY RD	192+68, 61' RT												20									
497	EC-3	SUNBURY RD	192+68, 61' RT	194+08, 49' RT	150										300									
497	SE U-1	SUNBURY RD	193+55, 59' LT						75		144													
497	IC-1	SUNBURY RD	193+55, 59' LT	194+32, 52' LT	84				84															
497	CTV-1	SUNBURY RD	193+81, 34' RT													1								
497	EC-1	SUNBURY RD	193+81, 34' RT	194+08, 49' RT											30									
497	EC-2	SUNBURY RD	194+08, 49' RT			1									35									
497	IC-2	SUNBURY RD	194+32, 52' LT				1		35															
497	IC-3	SUNBURY RD	194+32, 52' LT	201+00, 38' LT					671					671										
497	IC-4	SUNBURY RD	199+20, 49' LT						150															
SUNBURY RD. BETWEEN STA. 201+00 AND 212+00																								
498	IC-1	SUNBURY RD	201+00, 38' LT	212+00, 21' RT					1,120					1,120										
498	IC-2	SUNBURY RD	206+28, 14' LT					1																
498	IC-3	SUNBURY RD	207+01, 22' RT					1																
SUNBURY RD. BETWEEN STA. 212+00 AND 222+00, INT 3139																								
499	IC-1	SUNBURY RD	212+00, 21' RT	220+03, 41' LT					914					914			2							
499	IC-3	SUNBURY RD	212+87, 21' RT						150															
499	IC-2	SUNBURY RD	220+03, 41' LT	220+55, 214' LT					180					180										
499	SE A-1	SUNBURY RD	220+03, 41' LT						150	125	24		1											
499	IC-4	SUNBURY RD	220+03, 41' LT	220+98, 50' LT						102				102										
499	CTV-1	SUNBURY RD	220+69, 41' LT													1								
499	EC-1	SUNBURY RD	220+69, 41' LT	220+98, 50' LT											30									
499	IC-5	SUNBURY RD	220+98, 50' LT							35														
499	EC-2	SUNBURY RD	220+98, 50' LT			1									35									
499	IC-6	SUNBURY RD	220+98, 50' LT	221+02, 56' LT	7					7														
499	EC-3	SUNBURY RD	220+98, 50' LT	221+02, 56' LT											14									
499	TC-1	SUNBURY RD	221+02, 56' LT							10		1			20			2	1	1				
SHEET TOTAL					241	2	1	2	3,529	279	168	1	1	2,987	484	2	2	2	1	1	-	-	-	-

AERIAL SAG: 1.5% AERIAL SAG IS INCLUDED IN THE QUANTITIES FOR ANY AERIAL FIBER OR CABLE ITEMS.

3378-E

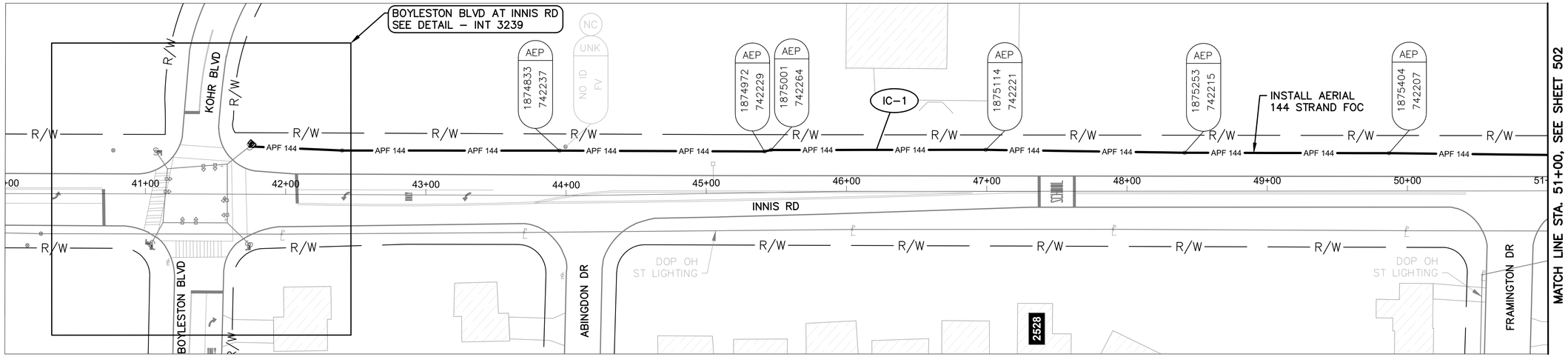
CIP: 540007–100012
PID NUMBER: 99733

SUNBURY RD BETWEEN STA. 191+00 & 222+00
INTS 3138, 3139

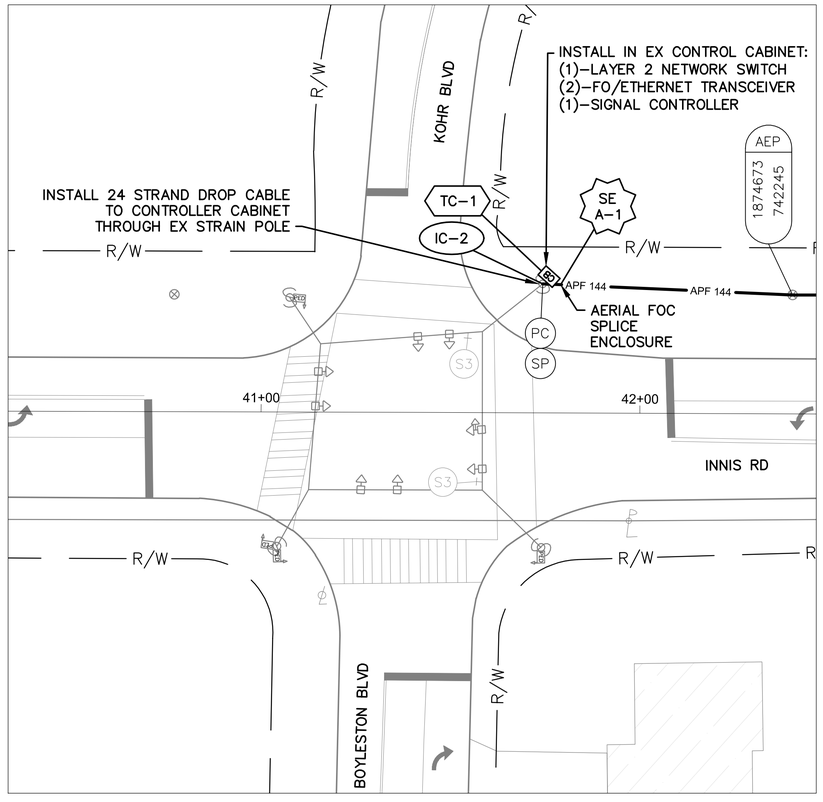
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

500
915

J:\Jobs\63721 CTSS Phase E\TECHPROD\Sheets\CTSS_PhE_Trunk4_SUNBURY_JC_QUANTITIES.dwg – SUNBURY RD_02 layout ~ last saved by gburch 09/05/2018 02:42pm ~ printed 09/18/2018 10:34am PSLTS: 1 LTS: 1 CAS: 1:1



INNIS RD BETWEEN STATION 40+00 AND 51+00



DETAIL - INT 3239

0 20 40
HORIZONTAL
SCALE IN FEET

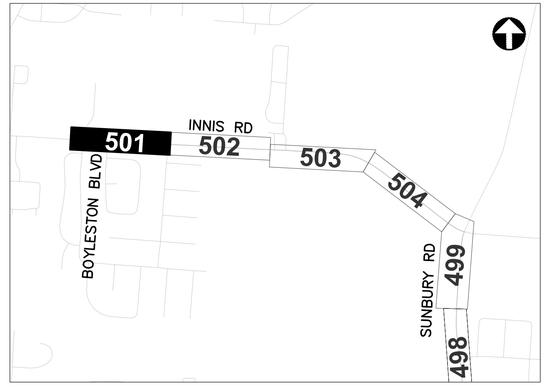
NOTES:

1. SEE SHEET 505 FOR QUANTITIES.
2. SEE SHEETS 623 & 756 FOR COMMUNICATION DETAILS.
3. EXISTING CONDUIT TO CONTROLLER CABINET IS FULL. INSTALL NEW FLEXIBLE CONDUIT TO CABINET FOR PROPOSED DROP CABLE.

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CITY OF COLUMBUS UTILITY LEGEND

☐	SEWER
☐	WATER
☐	POWER
☒	LIGHTING



REFER TO SHEET 315 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

0 40 80
HORIZONTAL
SCALE IN FEET

CIP: 540007–100012
PID NUMBER: 99733

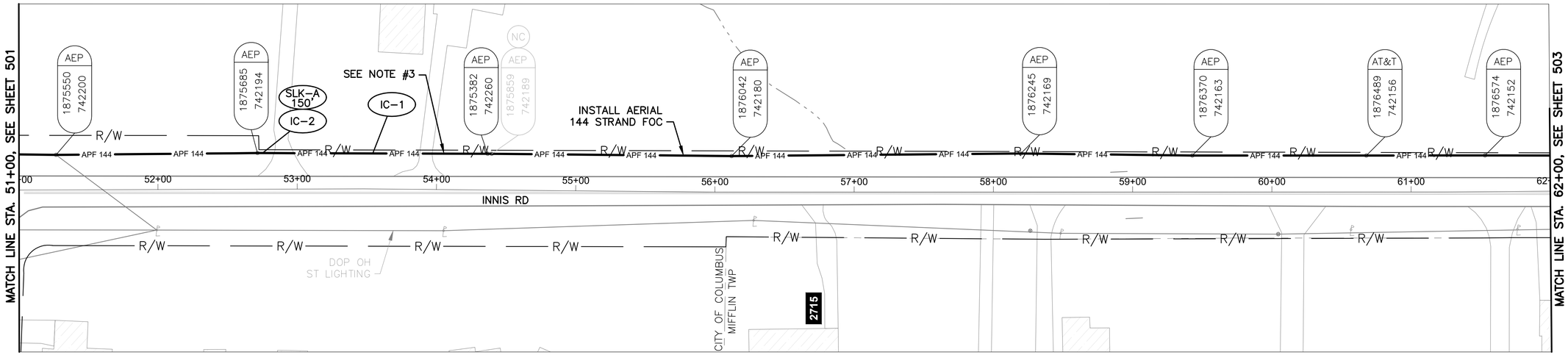
INTERCONNECT PLAN
INNIS RD BETWEEN STA. 40+00 AND 51+00, INT 3239

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

501
915

3378-E

J:\Jobs\63721 CTSS Phase E\TECHPROD\Sheets\CTSS_PhE_Trunk4_INNIS_INTERCONNECT.dwg – INNIS–1 layout ~ last saved by: gburch 09/13/2018 03:53pm ~ printed 09/13/2018 06:03pm PSLTS: 1 LTS: 1 CAS: 1:1



INNIS RD BETWEEN STATION 51+00 AND 62+00

NOTES:

1. SEE SHEET 505 FOR QUANTITIES.
2. SEE SHEET 623 FOR COMMUNICATION DETAILS.
3. INSTALL CABLE GUARD WHERE AERIAL OBSTRUCTIONS ARE PRESENT.

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CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☒ LIGHTING



REFER TO SHEET 315 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

HORIZONTAL SCALE IN FEET
0 40 80

CIP: 540007-100012
PID NUMBER: 99733

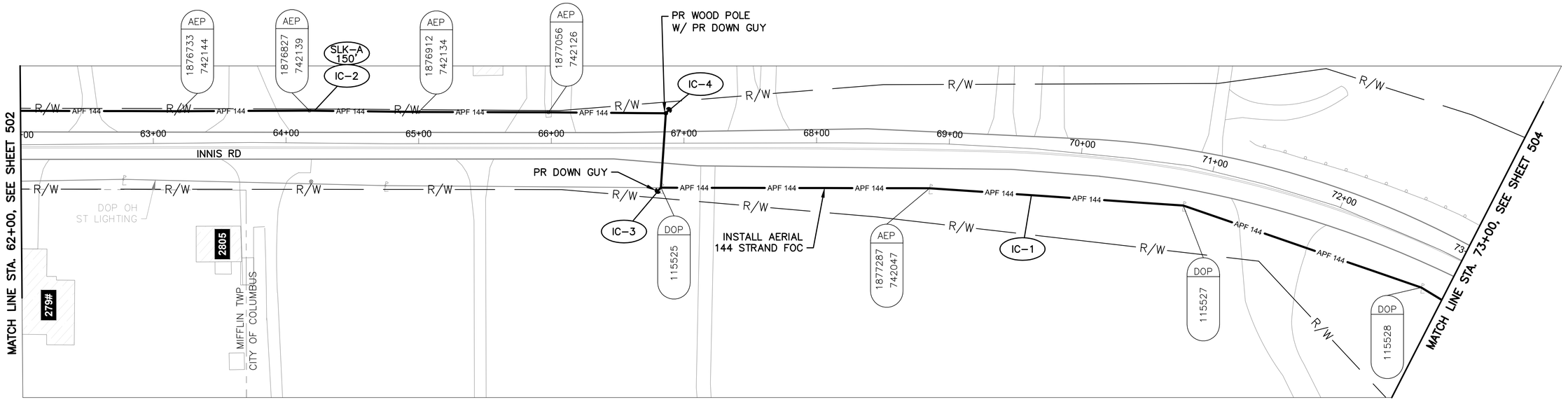
INTERCONNECT PLAN
INNIS RD BETWEEN STA. 51+00 AND 62+00

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

502
915

3378-E

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INNIS RD BETWEEN STATION 62+00 AND 73+00

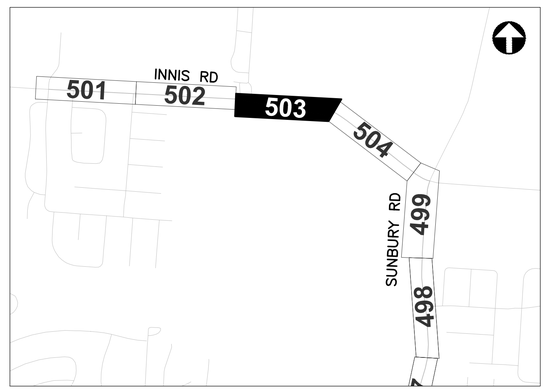
NOTES:

1. SEE SHEET 505 FOR QUANTITIES.
2. SEE SHEET 623 FOR COMMUNICATION DETAILS.

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CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☒ LIGHTING



REFER TO SHEET 315 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

HORIZONTAL SCALE IN FEET
0 40 80

CIP: 540007-100012
PID NUMBER: 99733

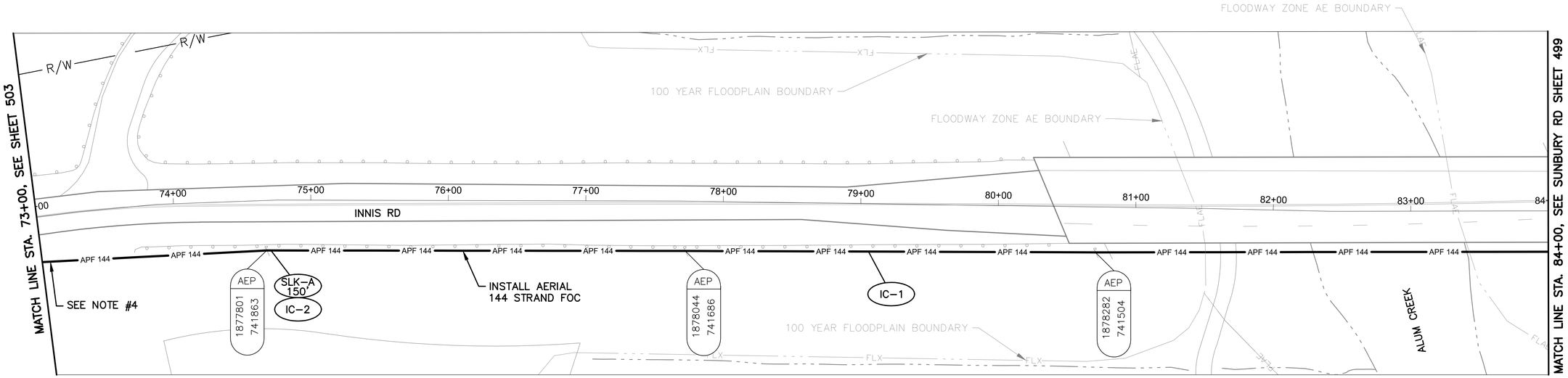
INTERCONNECT PLAN
INNIS RD BETWEEN STA. 62+00 AND 73+00

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

503
915

3378-E

J:\Jobs\63721 ctss phase e\TECHPROD\Sheets\CTSS_PhE_Trunk4_INNIS_INTERCONNECT.dwg – INNIS-3 layout ~ last saved by: rwegehaupt 08/30/2018 10:19am ~ printed 09/12/2018 04:03am PSLTS: 1 LTS: 1 CAS: 1:1



INNIS RD BETWEEN STATION 73+00 AND 84+00

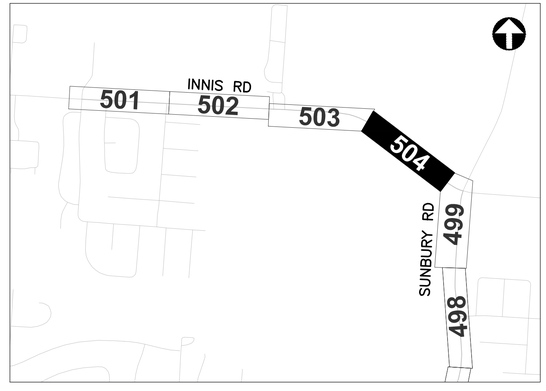
NOTES:

1. SEE SHEET 505 FOR QUANTITIES.
2. SEE SHEET 623 FOR COMMUNICATION DETAILS.
3. RIGHT OF WAY IS LOCATED OUTSIDE THE EXTENT OF VIEW SHOWN ABOVE.
4. INSTALL CABLE GUARD WHERE AERIAL OBSTRUCTIONS ARE PRESENT.

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CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 315 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

HORIZONTAL SCALE IN FEET
0 40 80

CIP: 540007–100012
PID NUMBER: 99733

INTERCONNECT PLAN
INNIS RD BETWEEN STA. 73+00 AND 84+00

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

504
915

3378-E

J:\Jobs\63721 ctss phase e\TECHPROD\Sheets\CTSS_PhE_Trunk4_INNIS_INTERCONNECT.dwg ~ INNIS-4 layout ~ last saved by: rwegehaupt 08/30/2018 10:19am ~ printed 09/12/2018 04:05pm PSLTS: 1 LTS: 1 CAS: 1:1

ESTIMATED QUANTITIES

SHEET NO.	REFERENCE NO.	LOCATION	STATION		632 DOWN GUY	632 INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 144 STRAND	632 INTERCONNECT CABLE, MISC.: FIBER OPTIC DROP CABLE, 24 STRAND	632 INTERCONNECT CABLE, MISC.: FIBER OPTIC FUSION SPLICE	632 INTERCONNECT CABLE, MISC.: TERMINATION PANEL, 24 FIBER	632 INTERCONNECT, MISC.: SPLICE ENCLOSURE, CLAMSHELL, 288 SPLICE	632 MESSENGER WIRE, 7 STRAND, 1/4" DIAMETER WITH ACCESSORIES, AS PER PLAN	632 WOOD POLE, CLASS 5, 35 FT	633 CONTROLLER ITEM, MISC.: FIBER OPTIC ETHERNET TRANSCEIVER, SHORT RANGE	633 CONTROLLER ITEM, MISC.: LAYER 2 ETHERNET SWITCH	633 CONTROLLER UNIT, TYPE TS2/A2, AS PER PLAN									
			FROM	TO	EACH	FT	FT	EACH	EACH	EACH	FT	EACH	EACH	EACH	EACH									
INNIS RD. BETWEEN STA. 40+00 AND 51+00, INT 3239																								
501	TC-1	INNIS RD	41+74, 34' LT				10		1				2	1	1									
501	IC-2	INNIS RD	41+74, 34' LT	41+74, 34' LT			35																	
501	SE A-1	INNIS RD	41+74, 34' LT			75	125	12		1														
501	IC-1	INNIS RD	41+74, 34' LT	51+00, 26' LT		940					940													
INNIS RD. BETWEEN STA. 51+00 AND 62+00																								
502	IC-1	INNIS RD	51+00, 26' LT	62+00, 26' LT		1,117					1,117													
502	IC-2	INNIS RD	52+75, 26' LT			150																		
INNIS RD. BETWEEN STA. 62+00 AND 73+00																								
503	IC-1	INNIS RD	62+00, 26' LT	73+00, 33' RT		1,123					1,123													
503	IC-2	INNIS RD	64+21, 24' LT			150																		
503	IC-3	INNIS RD	66+82, 34' RT		1																			
503	IC-4	INNIS RD	66+86, 22' LT		1							1												
INNIS RD. BETWEEN STA. 73+00 AND 84+00																								
504	IC-1	INNIS RD	73+00, 33' RT	84+00, 30' RT		1,112					1,112													
504	IC-2	INNIS RD	74+69, 36' RT			150																		
SHEET TOTAL					2	4,817	170	12	1	1	4,292	1	2	1	1	-	-	-	-	-	-	-	-	-

AERIAL SAG: 1.5% AERIAL SAG IS INCLUDED IN THE QUANTITIES FOR ANY AERIAL FIBER OR CABLE ITEMS.

3378-E

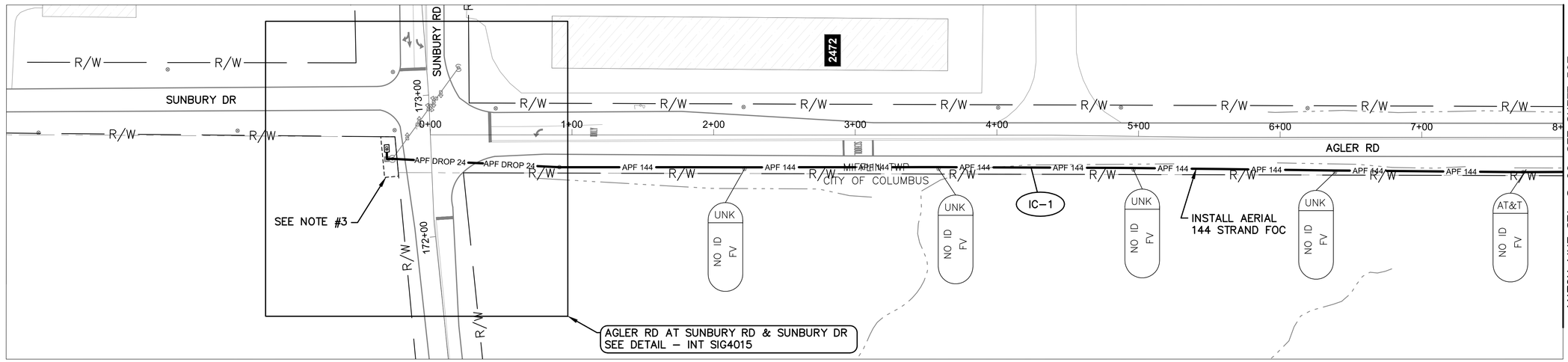
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PID NUMBER: 99733

INNIS RD BETWEEN STA. 40+00 & 84+00
INT 3239

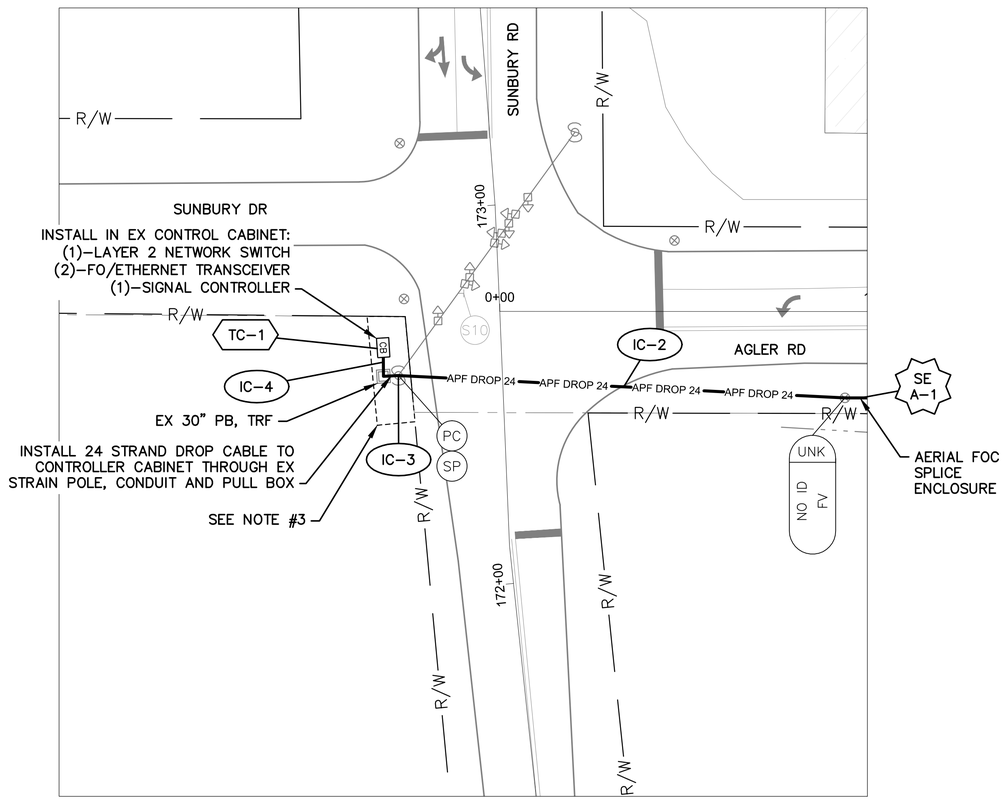
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

505
915

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AGLER RD BETWEEN STATION 0+00 AND 8+00



DETAIL - INT SIG4015

0 20 40
HORIZONTAL
SCALE IN FEET

NOTES:

1. SEE SHEET 512 FOR QUANTITIES.
2. SEE SHEET 623 & 760 FOR COMMUNICATION DETAILS.
3. EX EASEMENT PER INSTRUMENT #201612140172366.

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CITY OF COLUMBUS
UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 317 FOR
INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

0 40 80
HORIZONTAL
SCALE IN FEET

CIP: 540007–100012
PID NUMBER: 99733

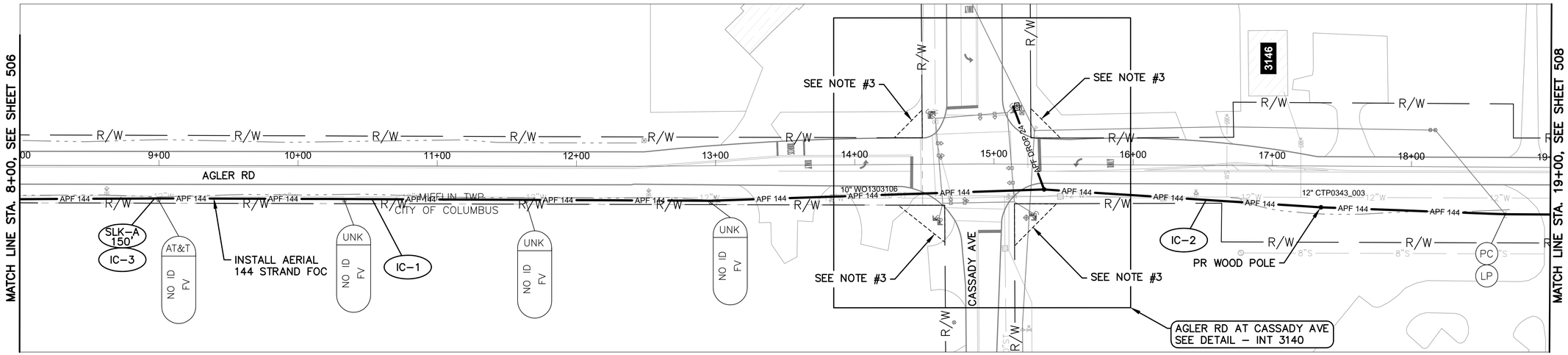
INTERCONNECT PLAN
AGLER RD BETWEEN STA. 0+00 AND 8+00, INT SIG4015

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

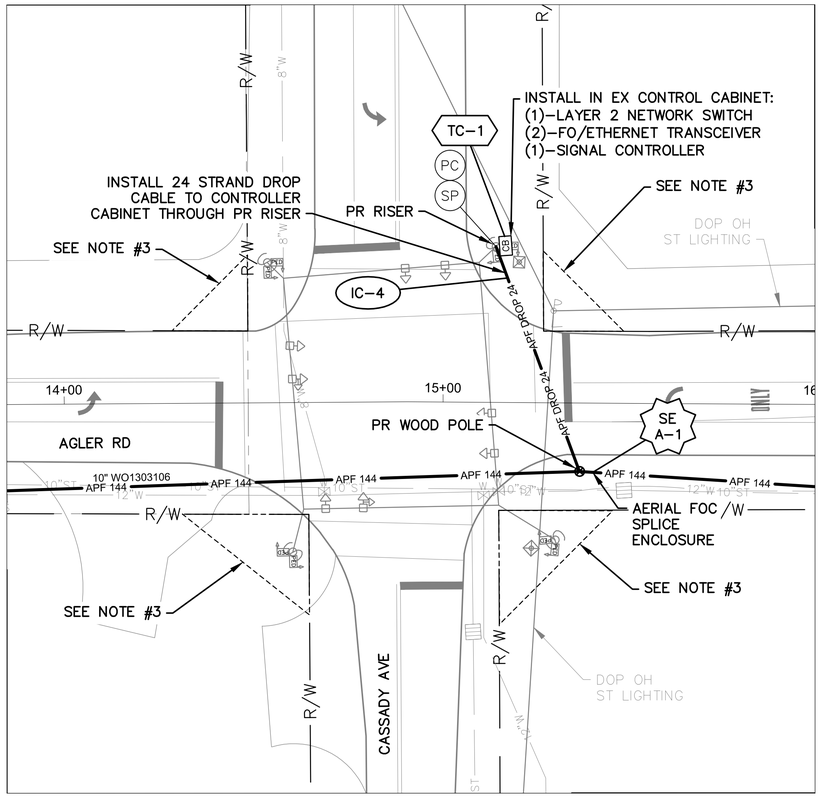
506
915

3378-E

J:\Jobs\63721 ctss phase e\TECHPROD\Sheets\CTSS_PhE_Trunk4_AGLER_INTERCONNECT.dwg – AGLER–1 layout ~ last saved by: rwegehoupt 08/29/2018 08:23am ~ printed 09/12/2018 04:08pm PSLTS: 1 LTS: 1 CAS: 1:1



AGLER RD BETWEEN STATION 8+00 AND 19+00



DETAIL - INT 3140

0 20 40
HORIZONTAL SCALE IN FEET

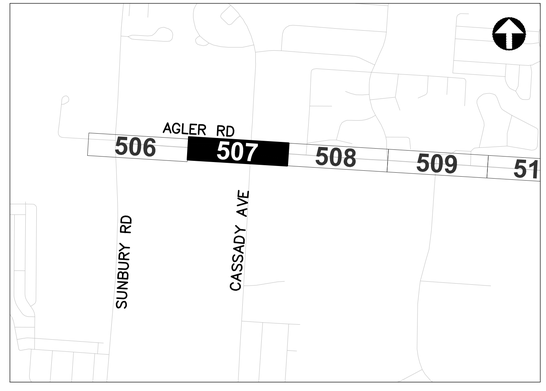
NOTES:

1. SEE SHEET 512 FOR QUANTITIES.
2. SEE SHEETS 623 & 761 FOR COMMUNICATION DETAILS.
3. EX EASEMENTS PER INSTRUMENTS #200601200013213, #200601270017200, #200608180164346, AND #200601200013223.

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CITY OF COLUMBUS UTILITY LEGEND

☐	SEWER
☒	WATER
☐	POWER
☒	LIGHTING



REFER TO SHEET 317 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

0 40 80
HORIZONTAL SCALE IN FEET

CIP: 540007–100012
PID NUMBER: 99733

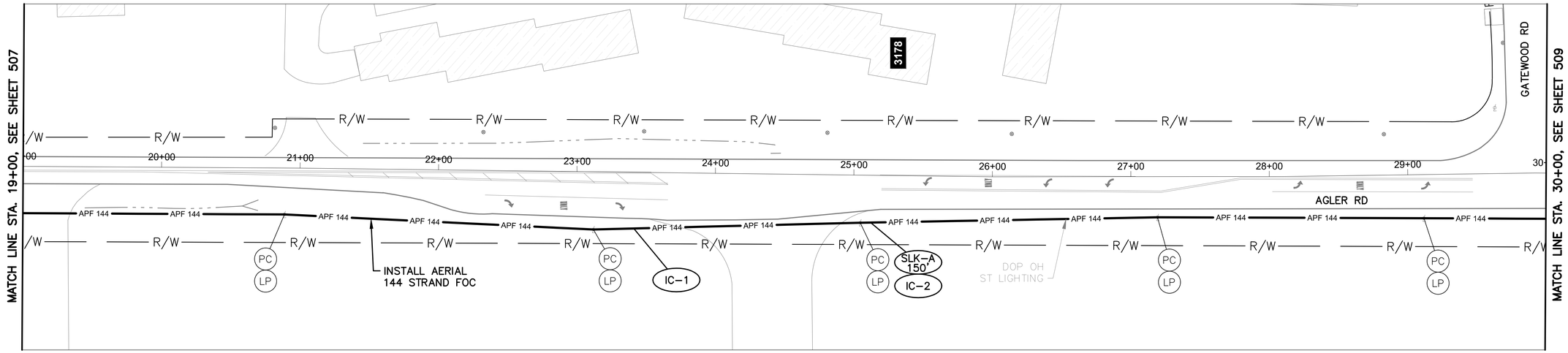
INTERCONNECT PLAN
AGLER RD BETWEEN STA. 8+00 AND 19+00, INT 3140

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

507
915

3378-E

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AGLER RD BETWEEN STATION 19+00 AND 30+00

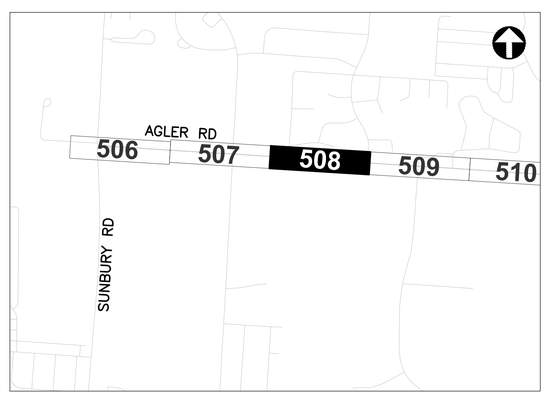
NOTES:

1. SEE SHEET 512 FOR QUANTITIES.
2. SEE SHEET 623 FOR COMMUNICATION DETAILS.

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CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☒ LIGHTING



REFER TO SHEET 317 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

3378-E

HORIZONTAL SCALE IN FEET
0 40 80

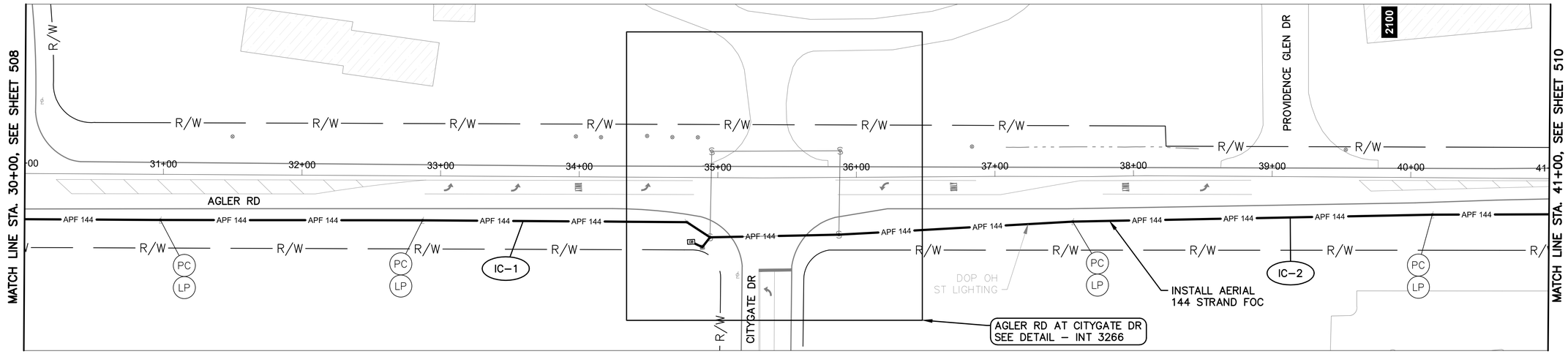
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PID NUMBER: 99733

INTERCONNECT PLAN
AGLER RD BETWEEN STA. 19+00 AND 30+00

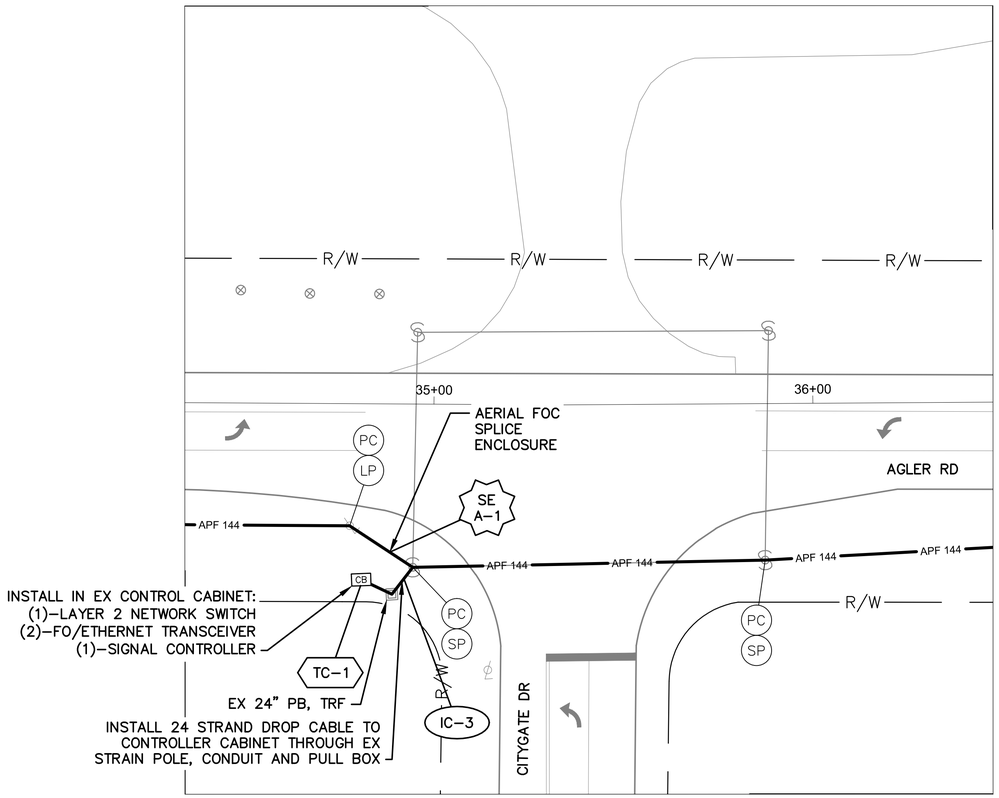
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

508
915

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AGLER RD BETWEEN STATION 30+00 AND 41+00



DETAIL - INT 3266

0 20 40

HORIZONTAL
SCALE IN FEET

NOTES:

1. SEE SHEET 512 FOR QUANTITIES.
2. SEE SHEETS 623 & 762 FOR COMMUNICATION DETAILS.

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CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☒ LIGHTING



REFER TO SHEET 317 FOR
INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

0 40 80

HORIZONTAL
SCALE IN FEET

CIP: 540007–100012
PID NUMBER: 99733

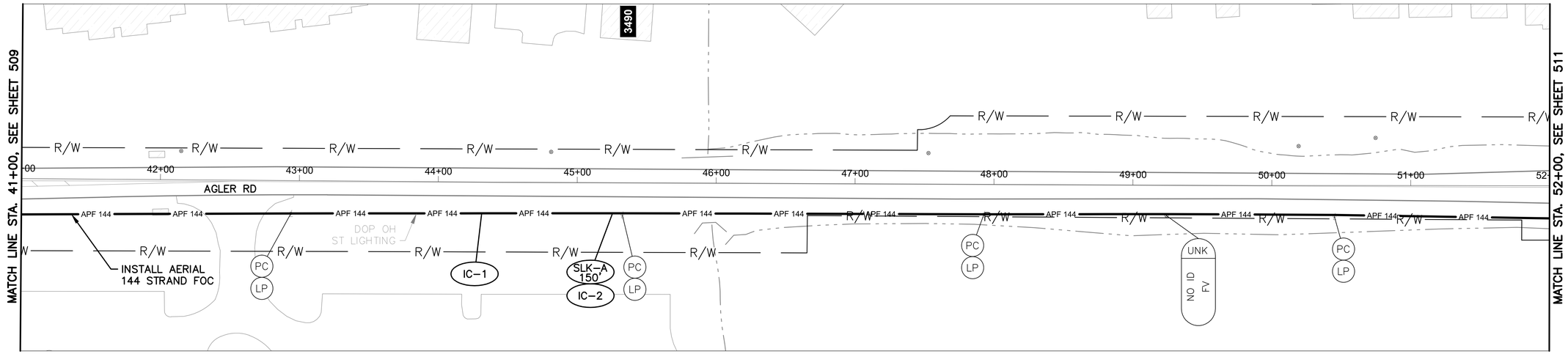
INTERCONNECT PLAN
AGLER RD BETWEEN STA. 30+00 AND 41+00, INT 3266

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

509
915

3378-E

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AGLER RD BETWEEN STATION 41+00 AND 52+00

NOTES:

1. SEE SHEET 512 FOR QUANTITIES.
2. SEE SHEET 623 FOR COMMUNICATION DETAILS.

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CITY OF COLUMBUS UTILITY LEGEND

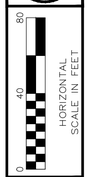
- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☒ LIGHTING



REFER TO SHEET 317 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

3378-E



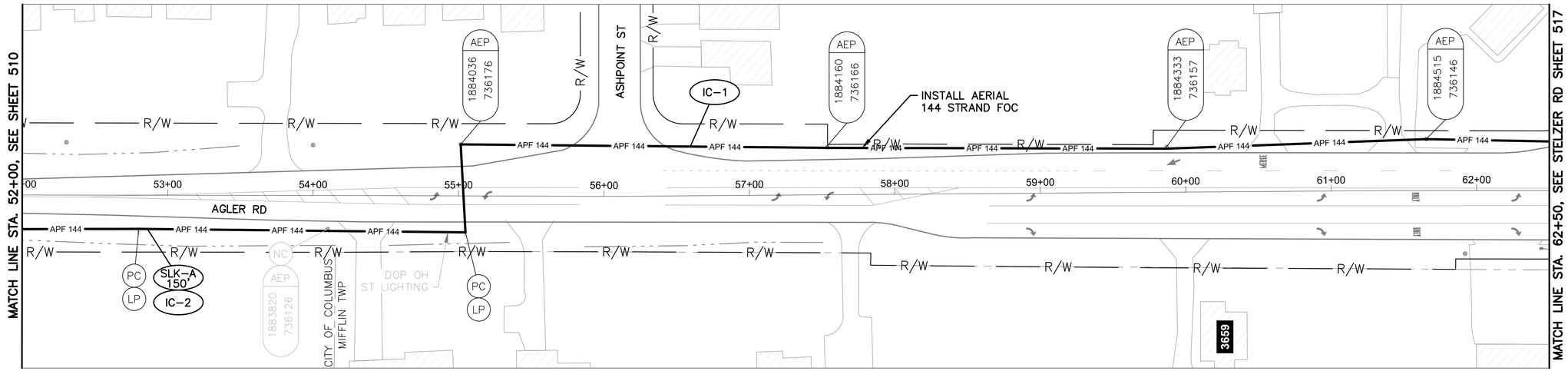
CIP: 540007-100012
PID NUMBER: 99733

INTERCONNECT PLAN
AGLER RD BETWEEN STA. 41+00 AND 52+00

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

510
915

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AGLER RD BETWEEN STATION 52+00 AND 62+50

NOTES:

1. SEE SHEET 512 FOR QUANTITIES.
2. SEE SHEET 623 FOR COMMUNICATION DETAILS.

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CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☒ LIGHTING



REFER TO SHEET 317 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

HORIZONTAL SCALE IN FEET
0 40 80

CIP: 540007-100012
PID NUMBER: 99733

INTERCONNECT PLAN
AGLER RD BETWEEN STA. 52+00 AND 62+50

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

511
915

3378-E

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ESTIMATED QUANTITIES

SHEET NO.	REFERENCE NO.	LOCATION	STATION		202	632	632	632	632	632	632	632	632	633	633	633									
					EXISTING CONDUIT CLEANED, AS PER PLAN	CONDUIT RISER, 2", 725.04, AS PER PLAN	INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 144 STRAND	INTERCONNECT CABLE, MISC.: FIBER OPTIC DROP CABLE, 24 STRAND	INTERCONNECT CABLE, MISC.: FIBER OPTIC FUSION SPLICE	INTERCONNECT CABLE, MISC.: TERMINATION PANEL, 24 FIBER	INTERCONNECT, MISC.: SPLICE ENCLOSURE, CLAMSHELL, 288 SPLICE	MESSENGER WIRE, 7 STRAND, 1/4" DIAMETER WITH ACCESSORIES, AS PER PLAN	WOOD POLE, CLASS 5, 35 FT	CONTROLLER ITEM, MISC.: FIBER OPTIC ETHERNET TRANSCEIVER, SHORT RANGE	CONTROLLER ITEM, MISC.: LAYER 2 ETHERNET SWITCH	CONTROLLER UNIT, TYPE TS2/A2, AS PER PLAN								
			FROM	TO	FT	EACH	FT	FT	EACH	EACH	EACH	FT	EACH	EACH	EACH	EACH								
AGLER RD. BETWEEN STA. 0+00 AND 8+00, INT SIG4015																									
506	TC-1	SUNBURY RD	172+61, 31' LT					10		1				2	1	1									
506	IC-4	SUNBURY RD	172+61, 31' LT	172+56, 27' LT	12			12																	
506	IC-3	SUNBURY RD	172+56, 27' LT					35																	
506	IC-2	SUNBURY RD/AGLER RD	172+56, 27' LT	0+91, 23' RT				120				120													
506	SE A-1	AGLER RD	0+91, 23' RT				75	125	12		1														
506	IC-1	AGLER RD	0+91, 23' RT	8+00, 25' RT			720					720													
AGLER RD. BETWEEN STA. 8+00 AND 19+00, INT 3140																									
507	IC-1	AGLER RD	8+00, 25' RT	15+36, 18' RT			747					747													
507	IC-3	AGLER RD	8+97, 25' RT				150																		
507	TC-1	AGLER RD	15+13, 41' LT			1		45		1				2	1	1									
507	IC-4	AGLER RD	15+13, 41' LT	15+36, 18' RT				64				64													
507	SE A-1	AGLER RD	15+36, 18' RT				150	125	24		1														
507	IC-2	AGLER RD	15+36, 18' RT	19+00, 34' RT			368					368	2												
AGLER RD. BETWEEN STA. 19+00 AND 30+00																									
508	IC-1	AGLER RD	19+00, 34' RT	30+00, 33' RT			1,117					1,117													
508	IC-2	AGLER RD	25+13, 34' RT				150																		
AGLER RD. BETWEEN STA. 30+00 AND 41+00, INT 3266																									
509	IC-1	AGLER RD	30+00, 33' RT	34+94, 43' RT			505					505													
509	TC-1	AGLER RD	34+81, 46' RT					10		1				2	1	1									
509	IC-3	AGLER RD	34+81, 46' RT	34+94, 43' RT	18			18																	
509	SE A-1	AGLER RD	34+94, 43' RT				150	160	24		1														
509	IC-2	AGLER RD	34+94, 43' RT	41+00, 26' RT			615					615													
AGLER RD. BETWEEN STA. 41+00 AND 52+00																									
510	IC-1	AGLER RD	41+00, 26' RT	52+00, 23' RT			1,117					1,117													
510	IC-2	AGLER RD	45+26, 23' RT				150																		
AGLER RD. BETWEEN STA. 52+00 AND 62+50																									
511	IC-1	AGLER RD	52+00, 23' RT	62+50, 34' LT			1,131					1,131													
511	IC-2	AGLER RD	52+86, 24' RT				150																		
SHEET TOTAL					30	1	7,295	724	60	3	3	6,504	2	6	3	3	-	-	-	-	-	-	-	-

AERIAL SAG: 1.5% AERIAL SAG IS INCLUDED IN THE QUANTITIES FOR ANY AERIAL FIBER OR CABLE ITEMS.

3378-E

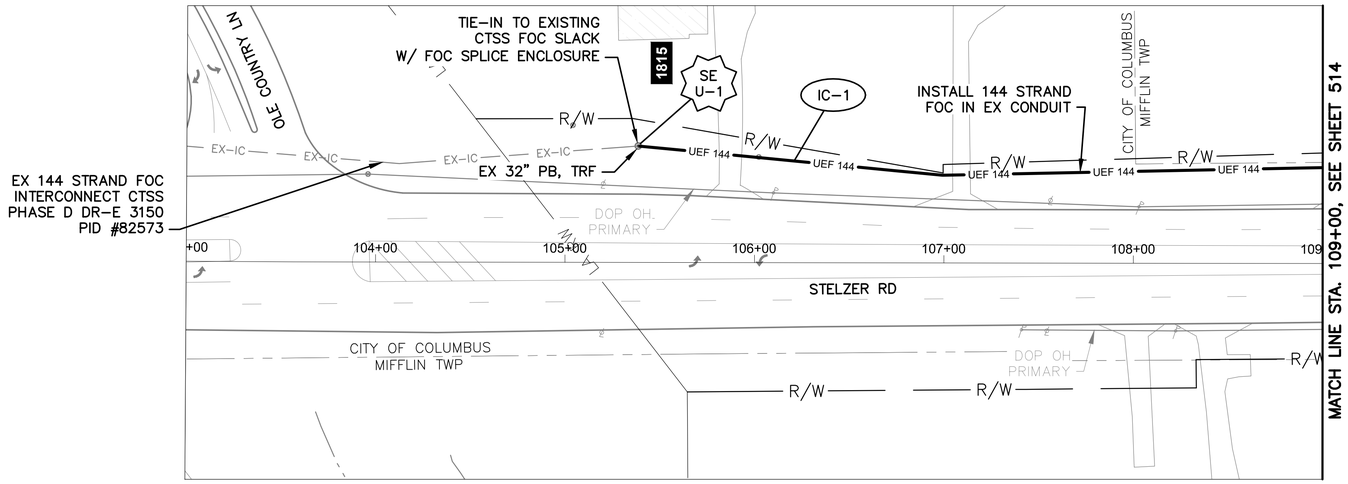
CIP: 540007–100012
PID NUMBER: 99733

AGLER RD BETWEEN STA. 0+00 & 62+50
INTS SIG4015, 3140, 3266

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

512
915

J:\Jobs\63721 CTSS Phase E\TECHPROD\Sheets\CTSS_PhE_Trunk4_AGLER_IC_QUANTITIES.dwg – AGLER RD_QI layout ~ last saved by: gburch 09/11/2018 10:08am ~ printed 09/18/2018 10:36am PSLTS: 1 LTS: 1 CAS: 1:1



STELZER RD BETWEEN STATION 103+00 AND 109+00

NOTES:

1. SEE SHEET 520 FOR QUANTITIES.
2. SEE SHEETS 623 & 763 FOR COMMUNICATION DETAILS.

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CITY OF COLUMBUS
UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☒ POWER
- ☐ LIGHTING



REFER TO SHEET 317 FOR
INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

3378-E

HORIZONTAL
SCALE IN FEET
0 40 80

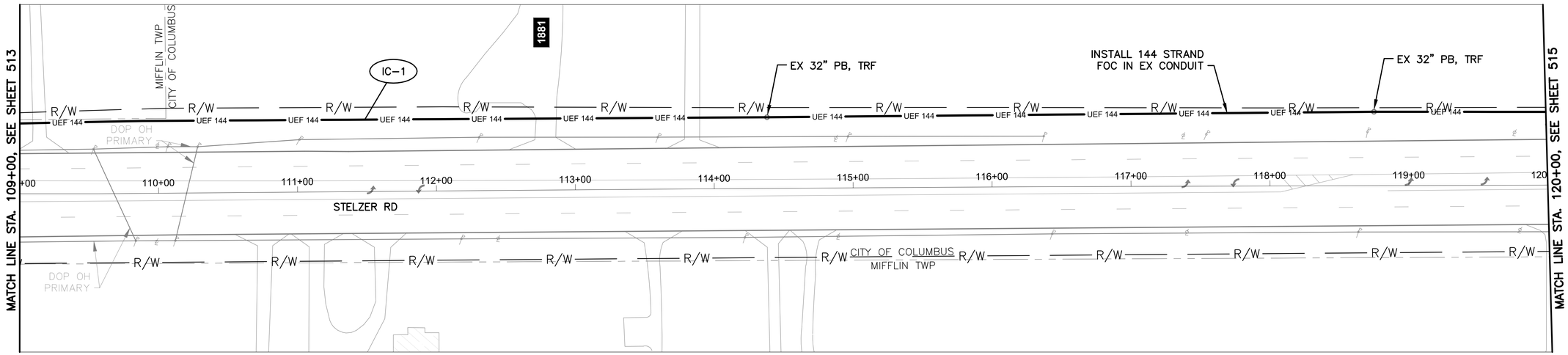
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PID NUMBER: 99733

INTERCONNECT PLAN
STELZER RD BETWEEN STA. 103+00 AND 109+00

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

513
915

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STELZER RD BETWEEN STATION 109+00 AND 120+00

NOTES:

1. SEE SHEET 520 FOR QUANTITIES.
2. SEE SHEET 623 FOR COMMUNICATION DETAILS.

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CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☒ POWER
- ☐ LIGHTING



REFER TO SHEET 317 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

3378-E

HORIZONTAL SCALE IN FEET
0 40 80

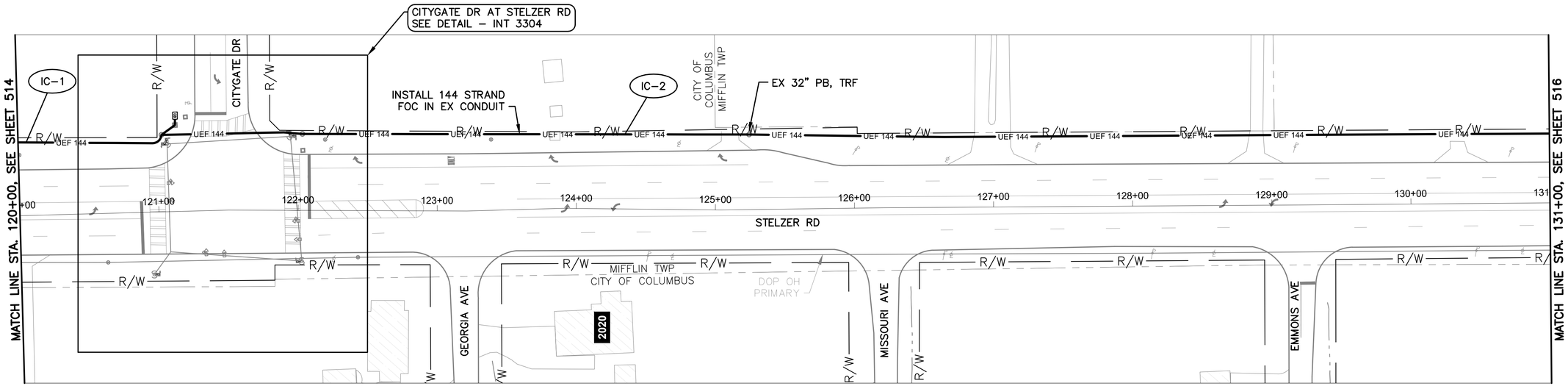
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PID NUMBER: 99733

INTERCONNECT PLAN
STELZER RD BETWEEN STA. 109+00 AND 120+00

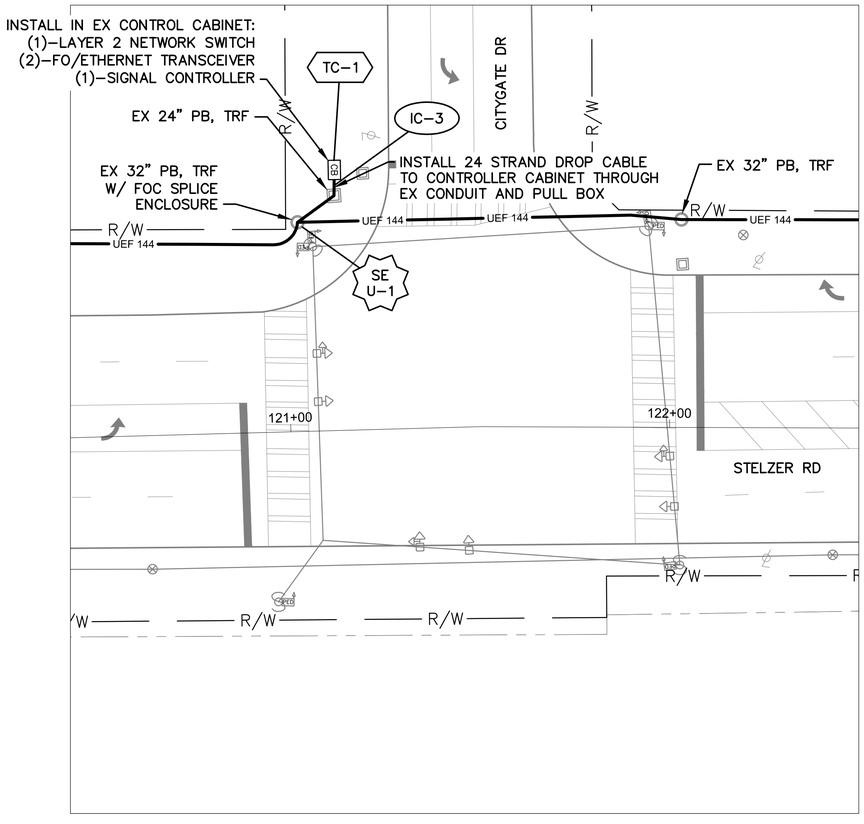
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

514
915

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STELZER RD BETWEEN STATION 120+00 AND 131+00



DETAIL - INT 3304

0 20 40
HORIZONTAL
SCALE IN FEET

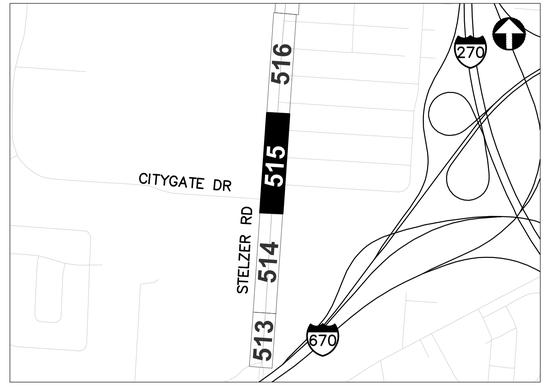
NOTES:

1. SEE SHEET 520 FOR QUANTITIES.
2. SEE SHEETS 623 & 764 FOR COMMUNICATION DETAILS.

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www.oups.org

CITY OF COLUMBUS
UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☒ POWER
- ☐ LIGHTING



REFER TO SHEET 317 FOR
INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

0 40 80
HORIZONTAL
SCALE IN FEET

CIP: 540007-100012
PID NUMBER: 99733

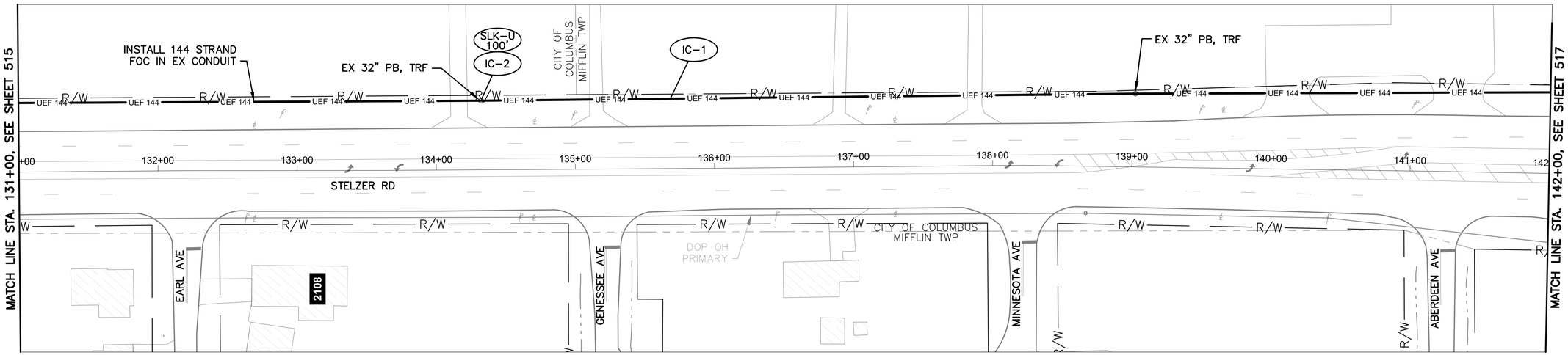
INTERCONNECT PLAN
STELZER RD BETWEEN STA. 120+00 AND 131+00, INT 3304

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

515
915

3378-E

J:\Jobs\63721 ctss phase e\TECHPROD\Sheets\CTSS_PhE_Trunk4_STELZER_INTERCONNECT.dwg ~ STELZER-3 layout ~ last saved by: gburch 09/06/2018 08:29am ~ printed 09/12/2018 04:27am PSLTS: 1 LTS: 1 CAS: 1:1



STELZER RD BETWEEN STATION 131+00 AND 142+00

NOTES:

1. SEE SHEET 520 FOR QUANTITIES.
2. SEE SHEET 623 FOR COMMUNICATION DETAILS.

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www.oups.org

CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☒ POWER
- ☐ LIGHTING



REFER TO SHEET 317 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

HORIZONTAL SCALE IN FEET
0 40 80

CIP: 540007-100012
PID NUMBER: 99733

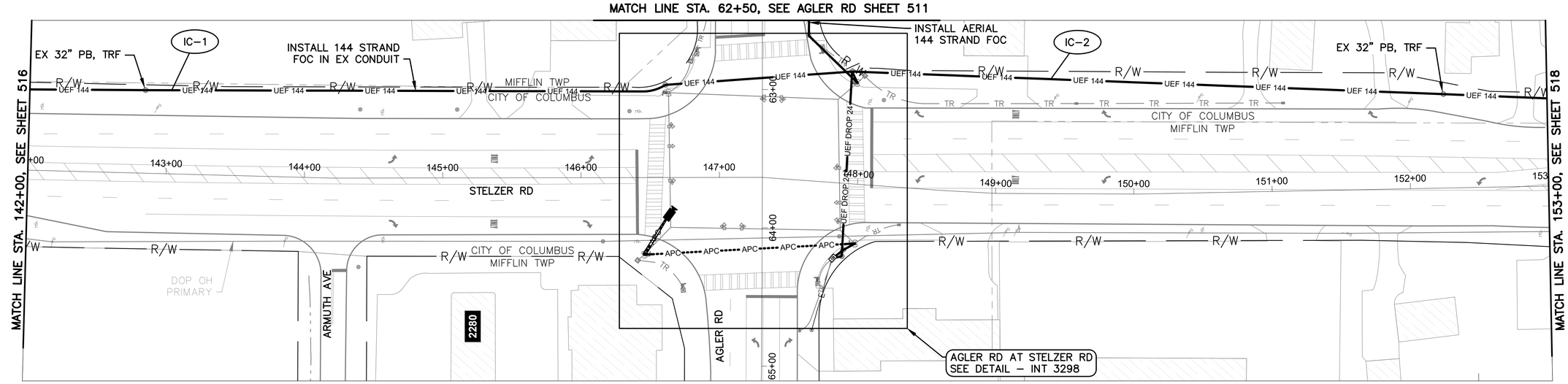
INTERCONNECT PLAN
STELZER RD BETWEEN STA. 131+00 AND 142+00

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

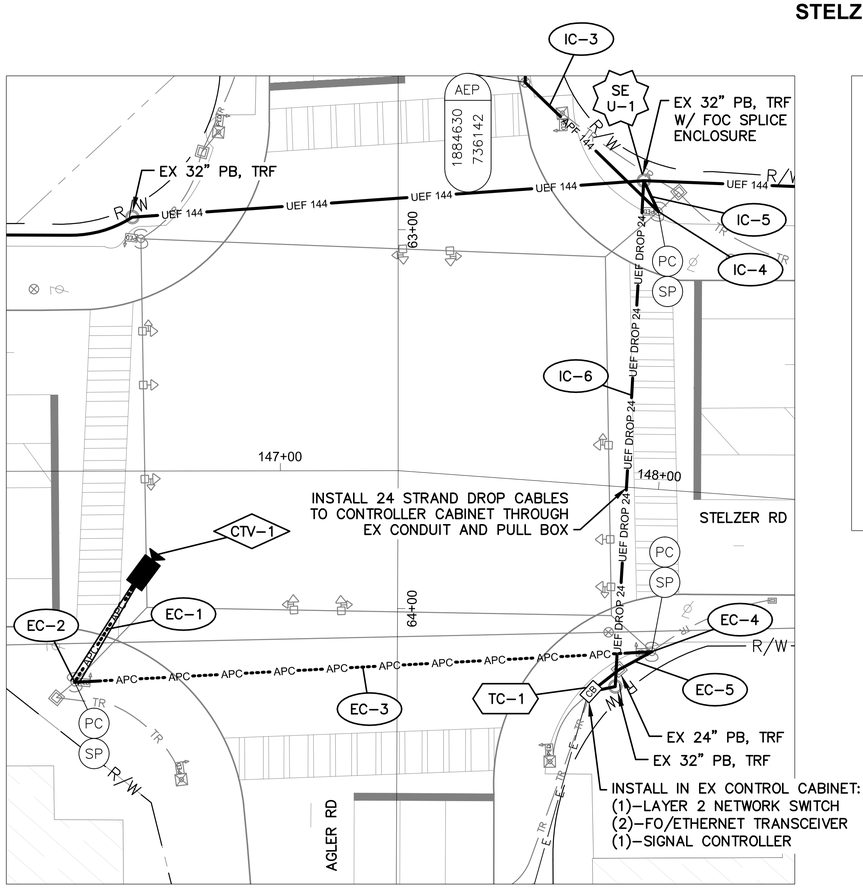
516
915

3378-E

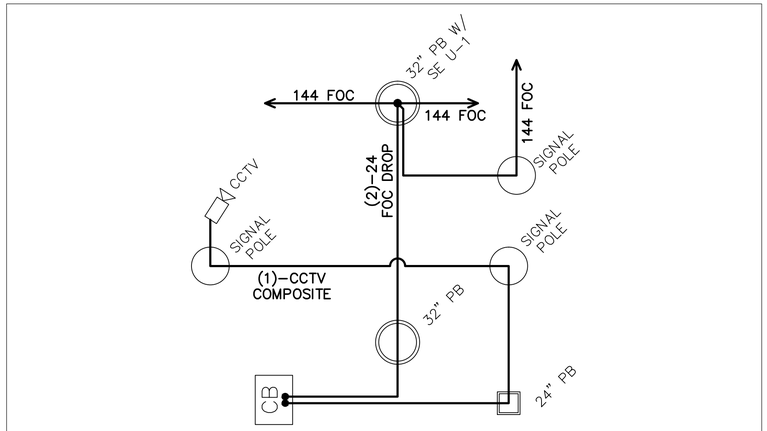
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STELZER RD BETWEEN STATION 142+00 AND 153+00



DETAIL - INT 3298



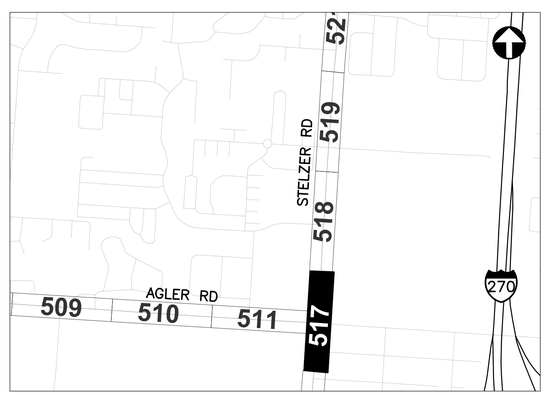
CABLE SCHEMATIC - INT 3298
NOT TO SCALE

NOTES:

1. SEE SHEET 520 FOR QUANTITIES.
2. SEE SHEETS 623 & 765 FOR COMMUNICATION DETAILS.

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CITY OF COLUMBUS UTILITY LEGEND
- ☐ SEWER
- ☐ WATER
- ☒ POWER
- ☐ LIGHTING



REFER TO SHEET 317 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

0 40 80
HORIZONTAL SCALE IN FEET

CIP: 540007–100012
PID NUMBER: 99733

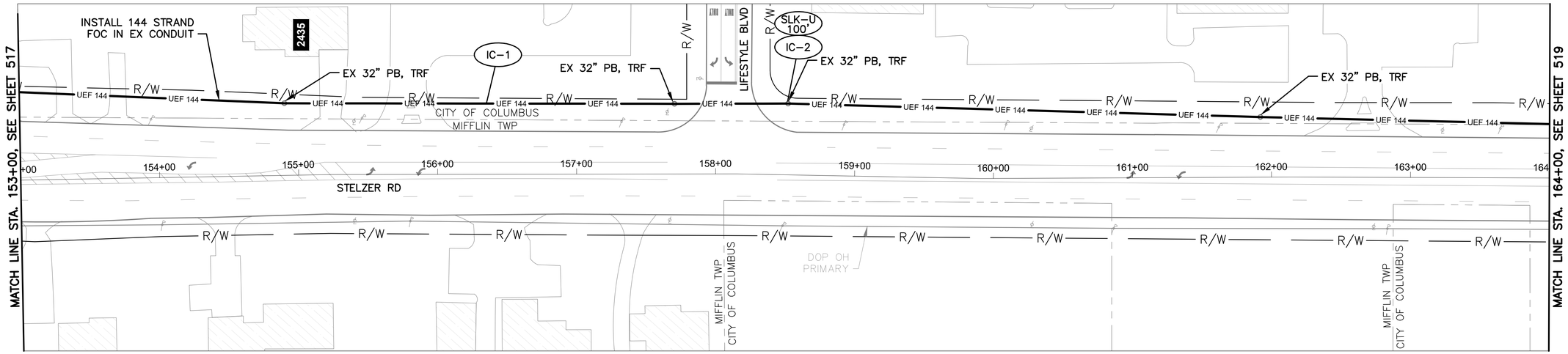
INTERCONNECT PLAN
STELZER RD BETWEEN STA. 142+00 AND 153+00, INT 3298

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

517
915

3378-E

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STELZER RD BETWEEN STATION 153+00 AND 164+00

NOTES:

1. SEE SHEET 520 FOR QUANTITIES.
2. SEE SHEET 623 FOR COMMUNICATION DETAILS.

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CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☒ POWER
- ☐ LIGHTING



REFER TO SHEET 317 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

HORIZONTAL SCALE IN FEET
0 40 80

CIP: 540007-100012
PID NUMBER: 99733

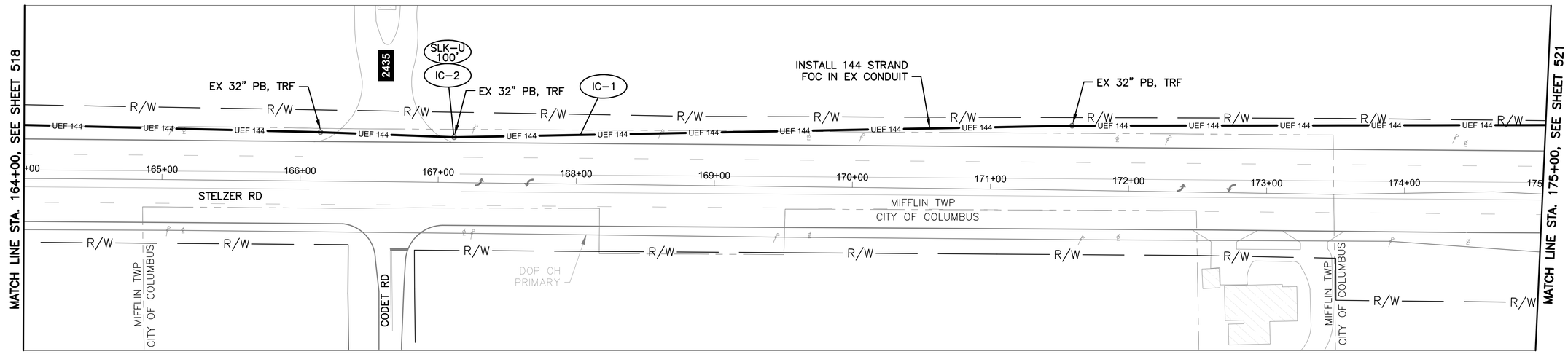
INTERCONNECT PLAN
STELZER RD BETWEEN STA. 153+00 AND 164+00

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

518
915

3378-E

J:\Jobs\63721 ctss phase e\TECHPROD\Sheets\CTSS_PhE_Trunk4_STELZER_INTERCONNECT.dwg – STELZER-6 layout ~ last saved by: gburch 09/06/2018 08:29am ~ printed 09/12/2018 04:34am PSLTS: 1 LTS: 1 CAS: 1:1



STELZER RD BETWEEN STATION 164+00 AND 175+00

NOTES:

1. SEE SHEET 520 FOR QUANTITIES.
2. SEE SHEET 623 FOR COMMUNICATION DETAILS.

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CITY OF COLUMBUS
UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☒ POWER
- ☐ LIGHTING



REFER TO SHEET 317 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

3378-E

HORIZONTAL SCALE IN FEET
0 40 80

CIP: 540007–100012
PID NUMBER: 99733

INTERCONNECT PLAN
STELZER RD BETWEEN STA. 164+00 AND 175+00

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

519
915

J:\Jobs\63721 ctss phase e\TECHPROD\Sheets\CTSS_PhE_Trunk4_STELZER_INTERCONNECT.dwg – STELZER–7 layout ~ last saved by: gburch 09/06/2018 08:29am ~ printed 09/12/2018 04:36pm PSLTS: 1 LTS: 1 CAS: 1:1

ESTIMATED QUANTITIES

SHEET NO.	REFERENCE NO.	LOCATION	STATION		202	625	632	632	632	632	632	632	632	632	633	633	633								
					EXISTING CONDUIT CLEANED, AS PER PLAN	BRACKET ARM, 30', AS PER PLAN	INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 144 STRAND	INTERCONNECT CABLE, MISC.: FIBER OPTIC DROP CABLE, 24 STRAND	INTERCONNECT CABLE, MISC.: FIBER OPTIC FUSION SPLICE	INTERCONNECT CABLE, MISC.: TERMINATION PANEL, 24 FIBER	INTERCONNECT, MISC.: SPLICE ENCLOSURE, CLAMSHELL, 288 SPLICE	MESSENGER WIRE, 7 STRAND, 1/4" DIAMETER WITH ACCESSORIES, AS PER PLAN	SIGNALIZATION, MISC.: CCTV COMPOSITE CABLE	SIGNALIZATION, MISC.: CCTV IP-CAMERA SYSTEM	CONTROLLER ITEM, MISC.: FIBER OPTIC ETHERNET TRANSCEIVER, SHORT RANGE	CONTROLLER ITEM, MISC.: LAYER 2 ETHERNET SWITCH	CONTROLLER UNIT, TYPE TS2/A2, AS PER PLAN							
			FROM	TO	FT	EACH	FT	FT	EACH	EACH	EACH	FT	FT	EACH	EACH	EACH	EACH							
STELZER RD. BETWEEN STA. 103+00 AND 109+00, INT SPLICE-02																									
513	SE U-1	STELZER RD	105+38, 61' LT				75		144		1														
513	IC-1	STELZER RD	105+38, 61' LT	109+00, 51' LT	362		362																		
STELZER RD. BETWEEN STA. 109+00 AND 120+00																									
514	IC-1	STELZER RD	109+00, 51' LT	120+00, 53' LT	1,099		1,099																		
STELZER RD. BETWEEN STA 120+00 AND 131+00, INT 3304																									
515	IC-1	STELZER RD	120+00, 53' LT	121+03, 55' LT	106		106																		
515	SE U-1	STELZER RD	121+03, 55' LT				150	125	24		1														
515	IC-3	STELZER RD	121+03, 55' LT	121+13, 69' LT	19			19																	
515	IC-2	STELZER RD	121+03, 55' LT	131+00, 50' LT	998		998																		
515	TC-1	STELZER RD	121+13, 69' LT					10		1						2	1	1							
STELZER RD. BETWEEN STA. 131+00 AND 142+00																									
516	IC-1	STELZER RD	131+00, 50' LT	142+00, 58' LT	1,102		1,102																		
516	IC-2	STELZER RD	134+32, 50' LT				100																		
STELZER RD. BETWEEN STA. 142+00 AND 153+00, INT 3298																									
517	IC-1	STELZER RD	142+00, 58' LT	147+90, 81' LT	596		596																		
517	EC-2	STELZER RD	146+46, 56' RT			1																			
517	EC-1	STELZER RD	146+46, 56' RT	146+61, 30' RT									30												
517	EC-3	STELZER RD	146+46, 56' RT	148+01, 43' RT								155	310												
517	CTV-1	STELZER RD	146+61, 30' RT											1											
517	IC-3	STELZER RD	147+56, 116' LT	147+94, 73' LT			61					61													
517	IC-6	STELZER RD	147+86, 55' RT	147+90, 81' LT	140			280																	
517	TC-1	STELZER RD	147+86, 55' RT					20		2			20		2	1	1								
517	EC-5	STELZER RD	147+86, 55' RT	148+01, 43' RT	19								38												
517	SE U-1	STELZER RD	147+90, 81' LT				225	250	228		1														
517	IC-5	STELZER RD	147+90, 81' LT	147+94, 73' LT	9		9																		
517	IC-2	STELZER RD	147+90, 81' LT	153+00, 63' LT	503		503																		
517	IC-4	STELZER RD	147+94, 73' LT				35																		
517	EC-4	STELZER RD	148+01, 43' RT										70												
STELZER RD. BETWEEN STA. 153+00 AND 164+00																									
518	IC-1	STELZER RD	153+00, 63' LT	164+00, 39' LT	1,102		1,102																		
518	IC-2	STELZER RD	158+51, 51' LT				100																		
STELZER RD. BETWEEN STA. 164+00 AND 175+00																									
519	IC-1	STELZER RD	164+00, 39' LT	175+00, 50' LT	1,102		1,102																		
519	IC-2	STELZER RD	167+11, 33' LT				100																		
SHEET TOTAL					7,157	1	7,825	704	396	3	3	216	468	1	4	2	2	-	-	-	-	-	-	-

AERIAL SAG: 1.5% AERIAL SAG IS INCLUDED IN THE QUANTITIES FOR ANY AERIAL FIBER OR CABLE ITEMS.

3378-E

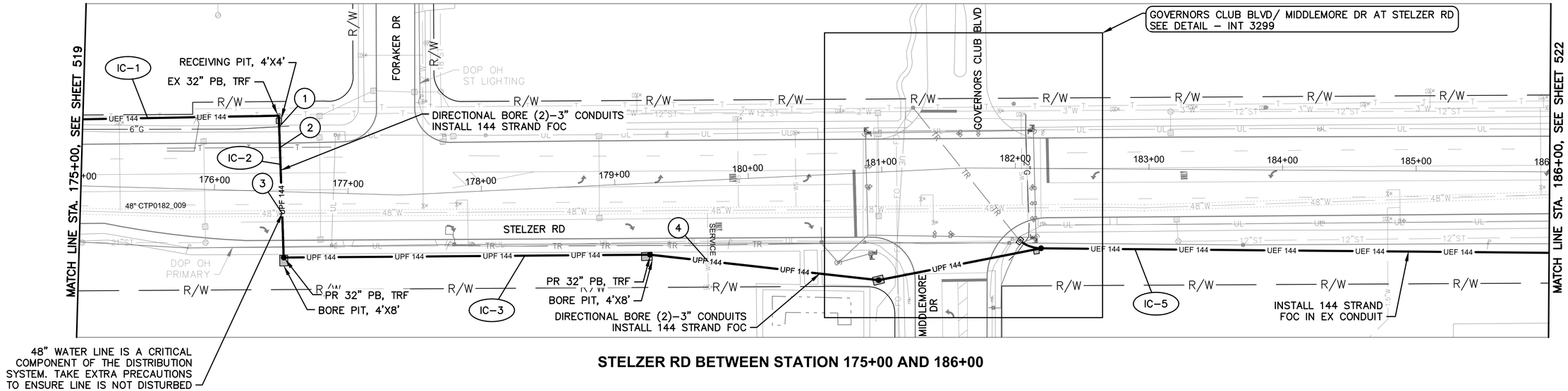
CIP: 540007-100012
PID NUMBER: 99733

STELZER RD BETWEEN STA. 103+00 & 175+00
INTS 3304, 3298

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

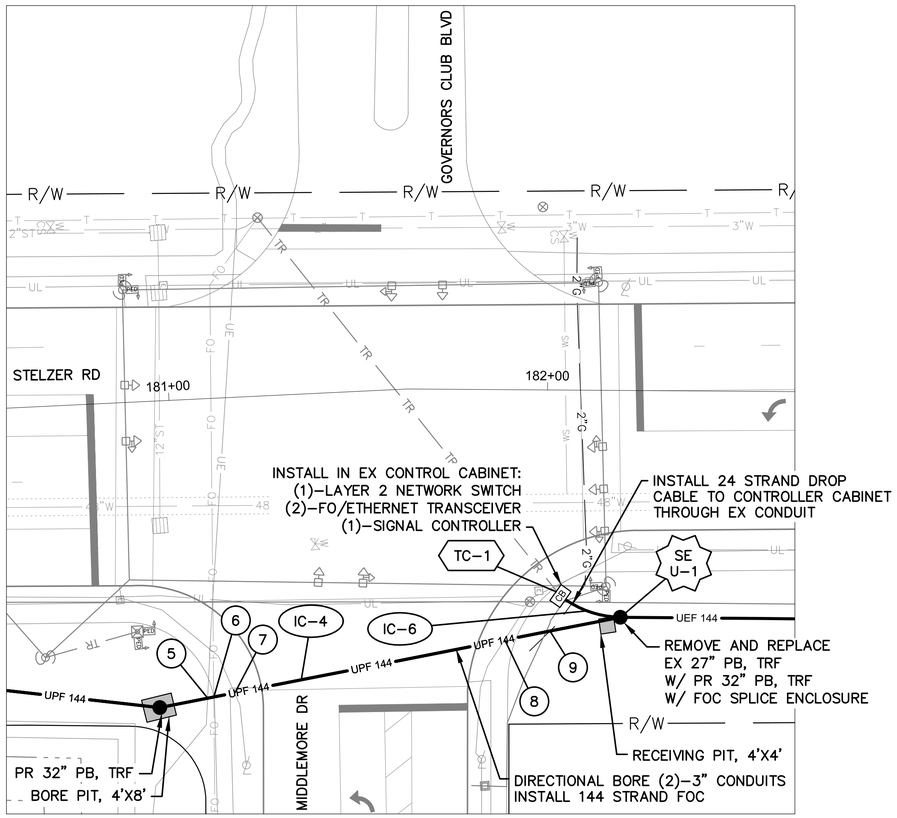
520
915

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STELZER RD BETWEEN STATION 175+00 AND 186+00

48" WATER LINE IS A CRITICAL COMPONENT OF THE DISTRIBUTION SYSTEM. TAKE EXTRA PRECAUTIONS TO ENSURE LINE IS NOT DISTURBED



DETAIL - INT 3299

0 20 40
HORIZONTAL
SCALE IN FEET

NOTES:

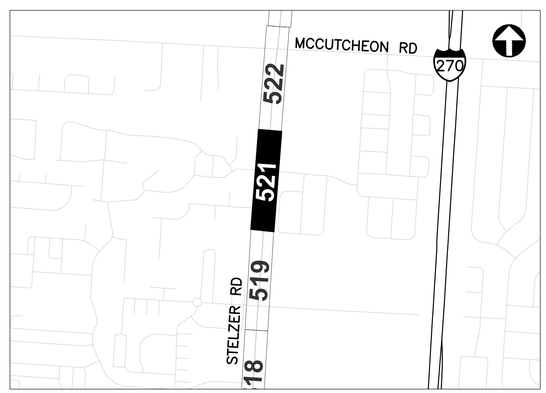
1. SEE SHEET 526 FOR QUANTITIES.
2. SEE SHEETS 623 & 766 FOR COMMUNICATION DETAILS.

(#) EXISTING UTILITY CROSSING. SEE UTILITY CROSSING INFO SHEET 326.

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CITY OF COLUMBUS UTILITY LEGEND

- SEWER
- WATER
- POWER
- LIGHTING



REFER TO SHEET 317 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

0 40 80
HORIZONTAL
SCALE IN FEET

CIP: 540007-100012
PID NUMBER: 99733

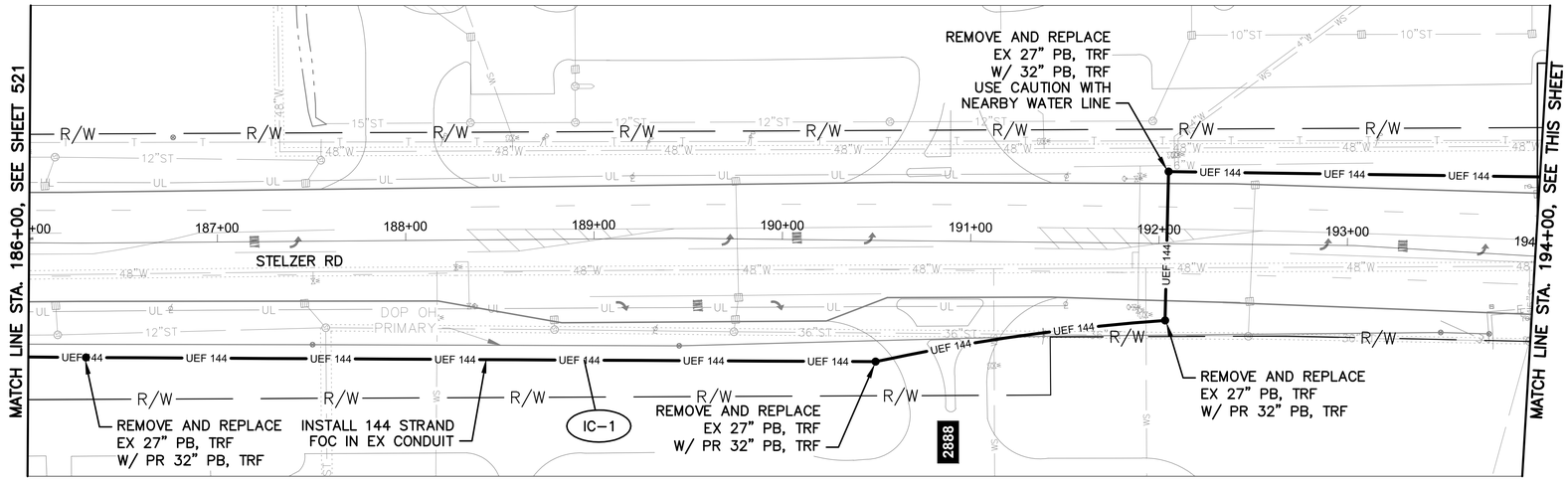
INTERCONNECT PLAN
STELZER RD BETWEEN STA. 175+00 AND 186+00, INT 3299

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E - FINAL SUBMITTAL

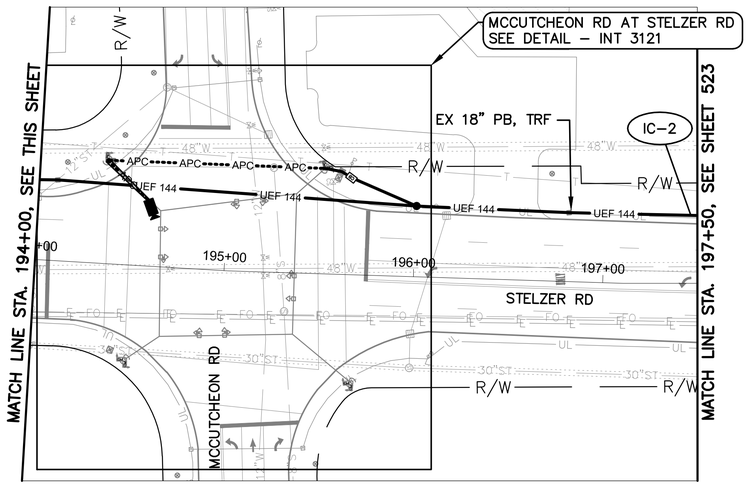
521
915

3378-E

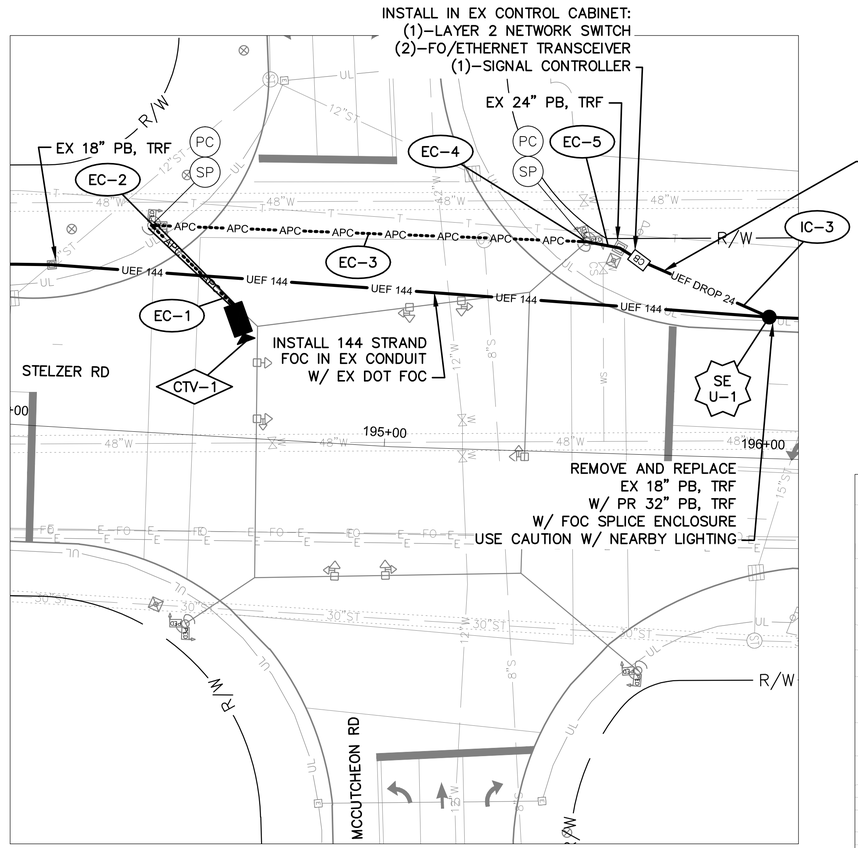
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STELZER RD BETWEEN STATION 186+00 AND 194+00



STELZER RD BETWEEN STATION 194+00 AND 197+50



DETAIL - INT 3121

0 20 40
HORIZONTAL
SCALE IN FEET

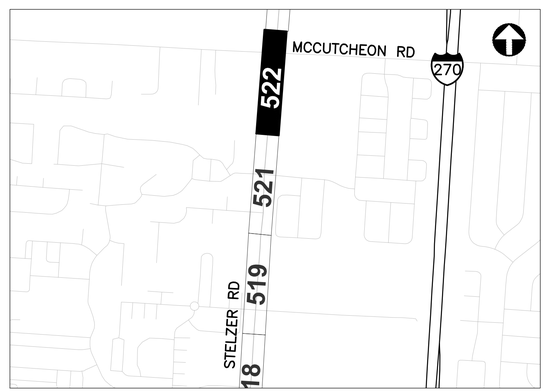
NOTES:

1. SEE SHEET 526 FOR QUANTITIES.
2. SEE SHEETS 623 & 767 FOR COMMUNICATION DETAILS.

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CITY OF COLUMBUS UTILITY LEGEND

- SEWER
- WATER
- POWER
- LIGHTING



REFER TO SHEET 315 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

0 40 80
HORIZONTAL
SCALE IN FEET

CIP: 540007–100012
PID NUMBER: 99733

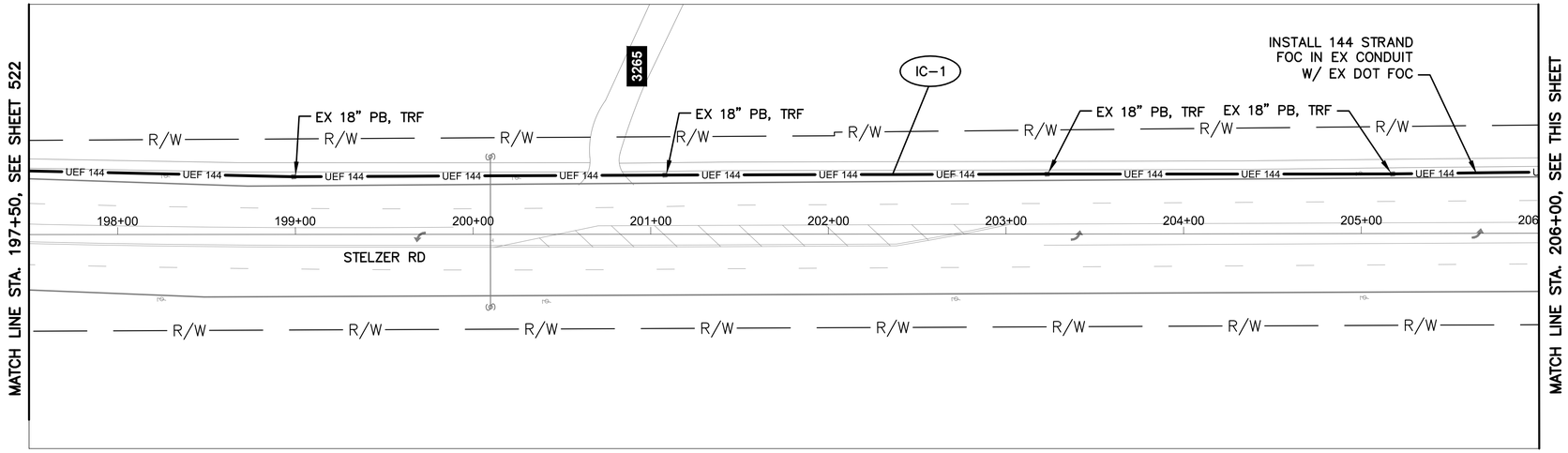
INTERCONNECT PLAN
STELZER RD BETWEEN STA. 186+00 AND 197+50, INT 3121

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

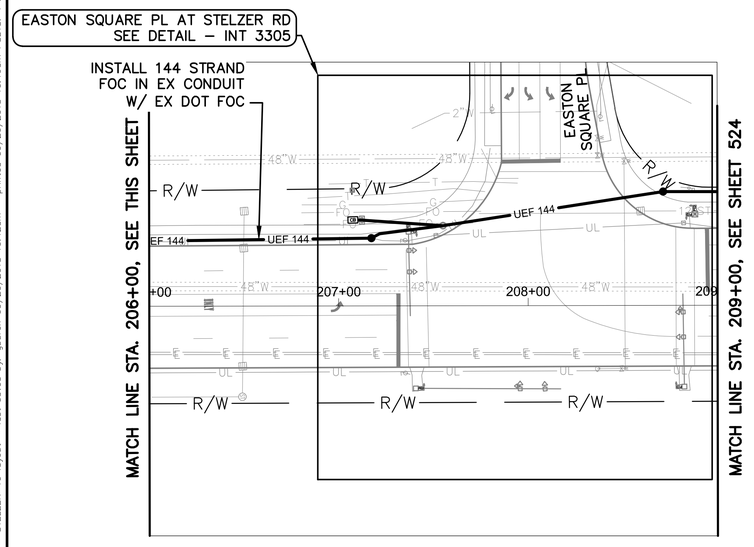
522
915

3378-E

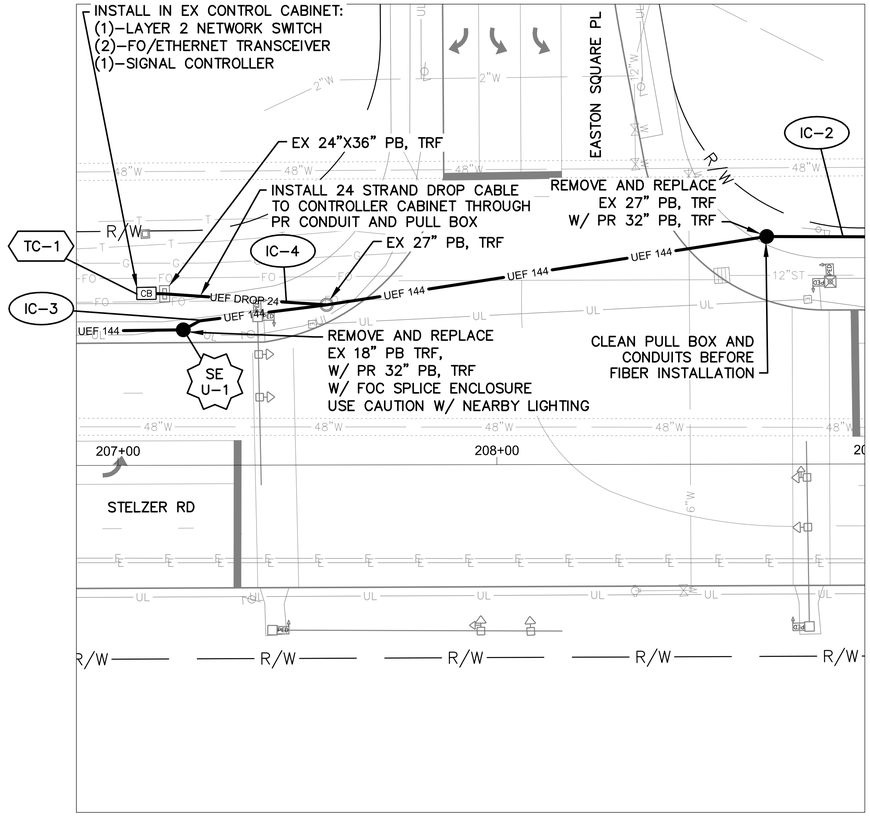
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STELZER RD BETWEEN STATION 197+50 AND 209+00



STELZER RD BETWEEN STATION 197+50 AND 209+00



DETAIL - INT 3305

0 20 40
HORIZONTAL
SCALE IN FEET

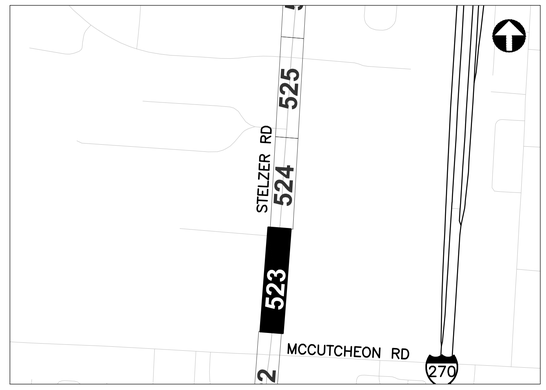
NOTES:

1. SEE SHEET 526 FOR QUANTITIES.
2. SEE SHEETS 623 & 768 FOR COMMUNICATION DETAILS.

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CITY OF COLUMBUS UTILITY LEGEND

- ☒ SEWER
- ☒ WATER
- ☐ POWER
- ☒ LIGHTING



REFER TO SHEET 315 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

0 40 80
HORIZONTAL
SCALE IN FEET

CIP: 540007–100012
PID NUMBER: 99733

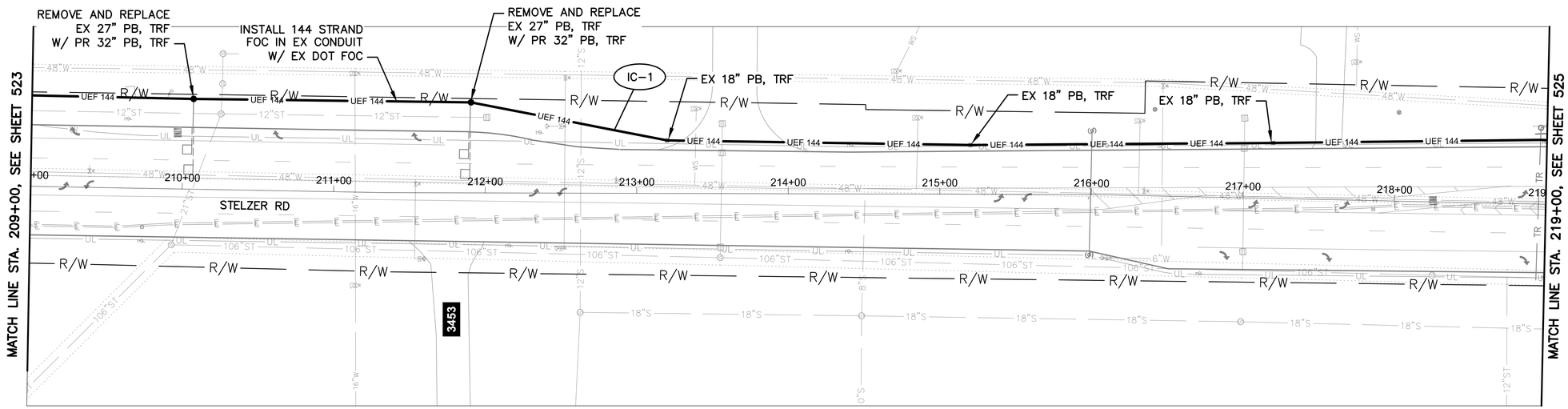
INTERCONNECT PLAN
STELZER RD BETWEEN STA. 197+50 AND 209+00, INT 3305

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

523
915

3378-E

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STELZER RD BETWEEN STATION 209+00 AND 219+00

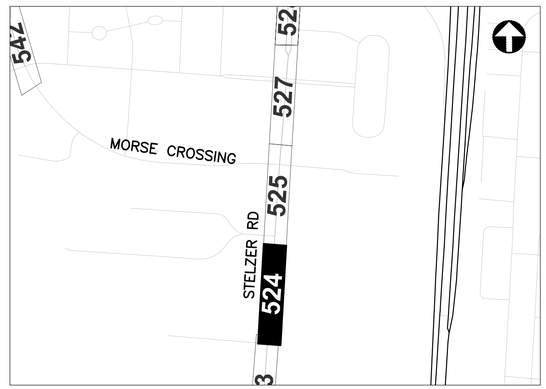
NOTES:

1. SEE SHEET 526 FOR QUANTITIES.
2. SEE SHEET 623 FOR COMMUNICATION DETAILS.

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CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 315 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

3378-E

HORIZONTAL SCALE IN FEET
0 40 80

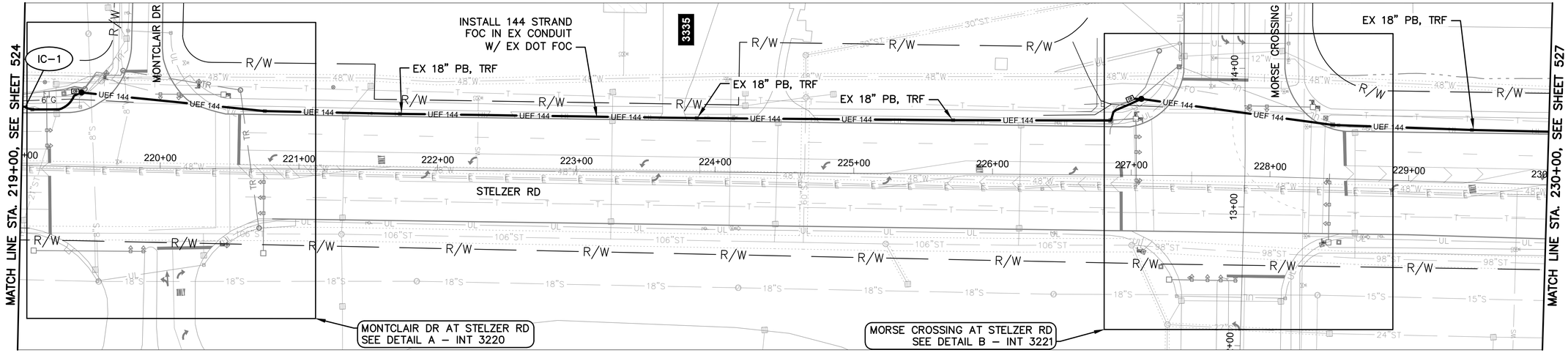
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PID NUMBER: 99733

INTERCONNECT PLAN
STELZER RD BETWEEN STA. 209+00 AND 219+00

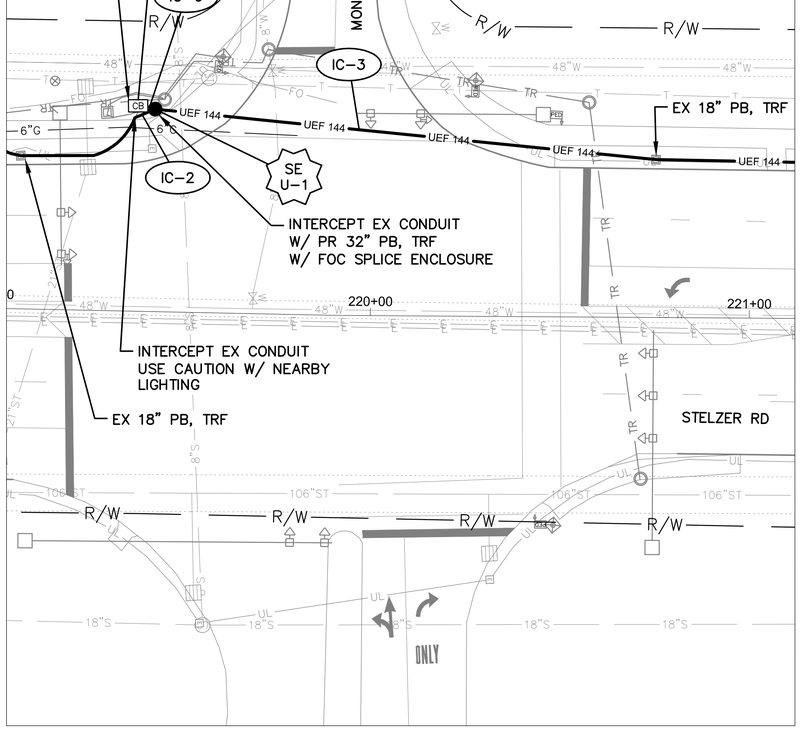
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

524
915

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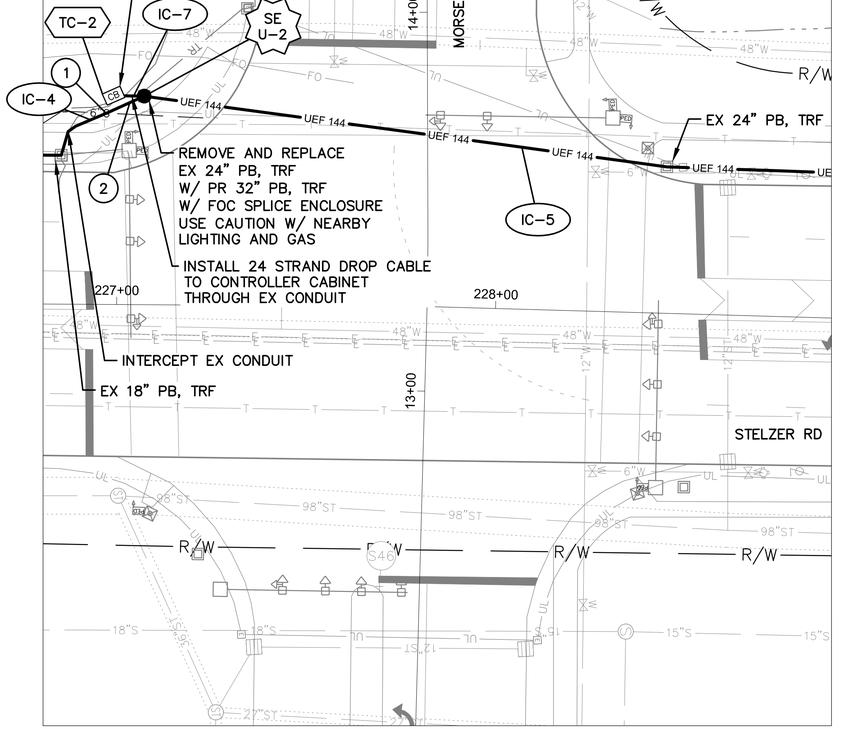


STELZER RD BETWEEN STATION 219+00 AND 230+00



DETAIL A - INT 3220

0 20 40
HORIZONTAL SCALE IN FEET



DETAIL B - INT 3221

0 20 40
HORIZONTAL SCALE IN FEET

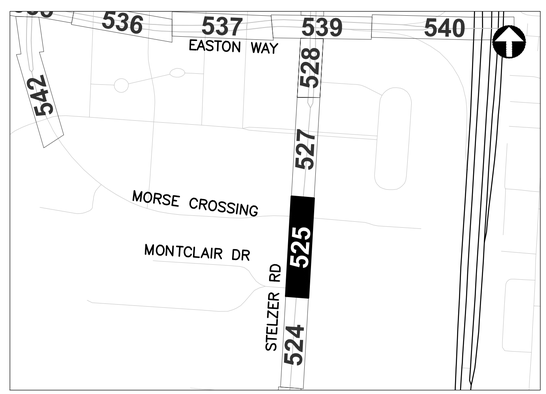
NOTES:

1. SEE SHEET 526 FOR QUANTITIES.
2. SEE SHEETS 623, 769, & 770 FOR COMMUNICATION DETAILS.
3. SIGNAL MAINTENANCE AGREEMENT CT–01106R IN PLACE BETWEEN CITY OF COLUMBUS AND ROSS PRODUCTS DIVISION OF ABBOTT LABORATORIES FOR MAINTENANCE OF TRAFFIC SIGNAL INFRASTRUCTURE AT INT 3220.
4. SIGNAL MAINTENANCE AGREEMENT CT–00987R IN PLACE BETWEEN CITY OF COLUMBUS AND THE HUNTINGTON NATIONAL BANK FOR MAINTENANCE OF TRAFFIC SIGNAL INFRASTRUCTURE AT INT 3221.

(#) EXISTING UTILITY CROSSING. SEE UTILITY CROSSING INFO SHEET 326.

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CITY OF COLUMBUS UTILITY LEGEND
- SEWER
- WATER
- POWER
- LIGHTING



REFER TO SHEET 315 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

3378-E

0 40 80
HORIZONTAL SCALE IN FEET

CIP: 540007–100012
PID NUMBER: 99733

INTERCONNECT PLAN
STELZER RD BETWEEN STA. 219+00 AND 230+00, INTS 3220 AND 3221

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

525
915

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ESTIMATED QUANTITIES

SHEET NO.	REFERENCE NO.	LOCATION	STATION		202	625	625	625	625	625	625	632	632	632	632	632	632	632	632	633	633	633		
					EXISTING CONDUIT CLEANED, AS PER PLAN	BRACKET ARM, 30', AS PER PLAN	CONDUIT, CONCRETE ENCASED, 2-3", 725.05, AS PER PLAN	CONDUIT, JACKED OR DRILLED, 3", AS PER PLAN	PULL BOX, CONCRETE 32", AS PER PLAN	PULL BOX, REMOVED, AS PER PLAN	TRENCH, 36" DEEP, AS PER PLAN	INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 144 STRAND	INTERCONNECT CABLE, MISC.: FIBER OPTIC DROP CABLE, 24 STRAND	INTERCONNECT CABLE, MISC.: FIBER OPTIC FUSION SPLICE	INTERCONNECT CABLE, MISC.: TERMINATION PANEL, 24 FIBER	INTERCONNECT, MISC.: SPLICE ENCLOSURE, CLAMSHELL, 288 SPLICE	MESSENGER WIRE, 7 STRAND, 1/4" DIAMETER WITH ACCESSORIES, AS PER PLAN	SIGNALIZATION, MISC.: CCTV COMPOSITE CABLE	SIGNALIZATION, MISC.: CCTV IP-CAMERA SYSTEM	CONTROLLER ITEM, MISC.: FIBER OPTIC ETHERNET TRANSCEIVER, SHORT RANGE	CONTROLLER ITEM, MISC.: LAYER 2 ETHERNET SWITCH	CONTROLLER UNIT, TYPE TS2/A2, AS PER PLAN		
			FROM	TO	FT	EACH	FT	FT	EACH	EACH	FT	FT	FT	EACH	EACH	EACH	FT	FT	EACH	EACH	EACH	EACH		
STELZER RD. BETWEEN STA. 175+00 AND 186+00, INT 3299																								
521	IC-1	STELZER RD	175+00, 50' LT	176+46, 57' LT	147							147												
521	IC-2	STELZER RD	176+46, 57' LT	176+53, 49' RT				212				106												
521	IC-3	STELZER RD	176+53, 49' RT	179+23, 54' RT			274		2		274	274												
521	IC-4	STELZER RD	179+23, 54' RT	182+19, 60' RT				592	1			296												
521	TC-1	STELZER RD	182+03, 54' RT										10		1						2	1	1	
521	IC-6	STELZER RD	182+03, 54' RT	182+19, 60' RT	17								17											
521	SE U-1	STELZER RD	182+19, 60' RT						1	1		150	125	24		1								
521	IC-5	STELZER RD	182+19, 60' RT	186+00, 61' RT	380							380												
STELZER RD. BETWEEN STA. 186+00 AND 197+50, INT 3121																								
522	IC-1	STELZER RD	186+00, 61' LT	196+00, 37' LT	1,081				4	4		1,081												
522	EC-3	STELZER RD	194+35, 55' LT	195+52, 56' LT													117	234						
522	EC-2	STELZER RD	194+35, 55' LT			1																		
522	EC-1	STELZER RD	194+35, 55' LT	194+58, 35' LT														30						
522	CTV-1	STELZER RD	194+58, 35' LT																1					
522	EC-4	STELZER RD	195+52, 56' LT															70						
522	EC-5	STELZER RD	195+52, 56' LT	195+65, 51' LT	15													30						
522	IC-3	STELZER RD	195+65, 51' LT	196+00, 37' LT	38								38											
522	TC-1	STELZER RD	195+65, 51' LT										10		1			20			2	1	1	
522	SE U-1	STELZER RD	196+00, 37' LT						1	1		150	125	24		1								
522	IC-2	STELZER RD	196+00, 37' LT	197+50, 36' LT	148							148												
STELZER RD. BETWEEN STA. 197+50 AND 209+00, INT 3305																								
523	IC-1	STELZER RD	197+50, 36' LT	207+17, 36' LT	967							967												
523	TC-1	STELZER RD	207+07, 45' LT										10		1						2	1	1	
523	IC-4	STELZER RD	207+07, 45' LT	207+55, 44' LT	47								47											
523	IC-3	STELZER RD	207+17, 36' LT	207+55, 44' LT									41											
523	SE U-1	STELZER RD	207+17, 36' LT						1	1		150	125	24		1								
523	IC-2	STELZER RD	207+17, 36' LT	209+00, 60' LT	188							188												
STELZER RD. BETWEEN STA. 209+00 AND 219+00																								
524	IC-1	STELZER RD	209+00, 60' LT	219+00, 42' LT	1,002				2	2		1,002												
STELZER RD. BETWEEN STA. 219+00 AND 230+00, INTS 3220 & 3221																								
525	IC-1	STELZER RD	219+00, 42' LT	219+37, 51' LT	42							42												
525	IC-2	STELZER RD	219+37, 51' LT	219+42, 53' LT			6				6	6												
525	TC-1	STELZER RD	219+38, 54' LT										10		1						2	1	1	
525	IC-6	STELZER RD	219+38, 54' LT	219+42, 53' LT	5								5											
525	SE U-1	STELZER RD	219+42, 53' LT						1	1		150	125	24		1								
525	IC-3	STELZER RD	219+42, 53' LT	226+94, 46' LT	754							754												
525	IC-4	STELZER RD	226+94, 46' LT	227+07, 55' LT			16				16	16												
525	TC-2	STELZER RD	226+99, 55' LT										10		1						2	1	1	
525	IC-7	STELZER RD	226+99, 55' LT	227+07, 55' LT	8								8											
525	SE U-2	STELZER RD	227+07, 55' LT						1	1		150	125	24		1								
525	IC-5	STELZER RD	227+07, 55' LT	230+00, 38' LT	295							295												
SHEET TOTAL					5,134	1	296	804	14	11	296	6,452	831	120	5	5	117	384	1	10	5	5	-	-

AERIAL SAG: 1.5% AERIAL SAG IS INCLUDED IN THE QUANTITIES FOR ANY AERIAL FIBER OR CABLE ITEMS.

3378-E

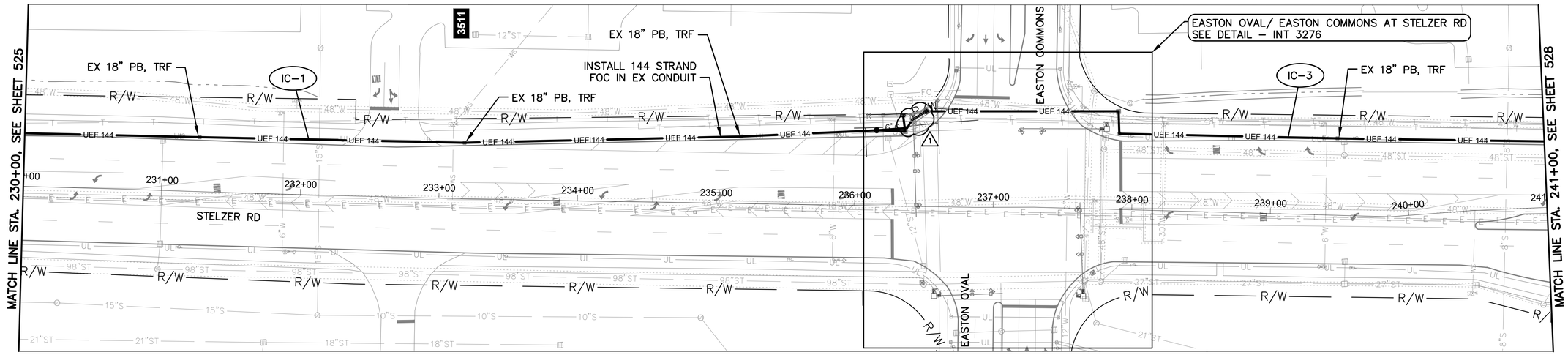
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PID NUMBER: 99733

STELZER RD BETWEEN STA. 175+00 & 230+00
INTS 3299, 3121, 3305, 3220, 3221

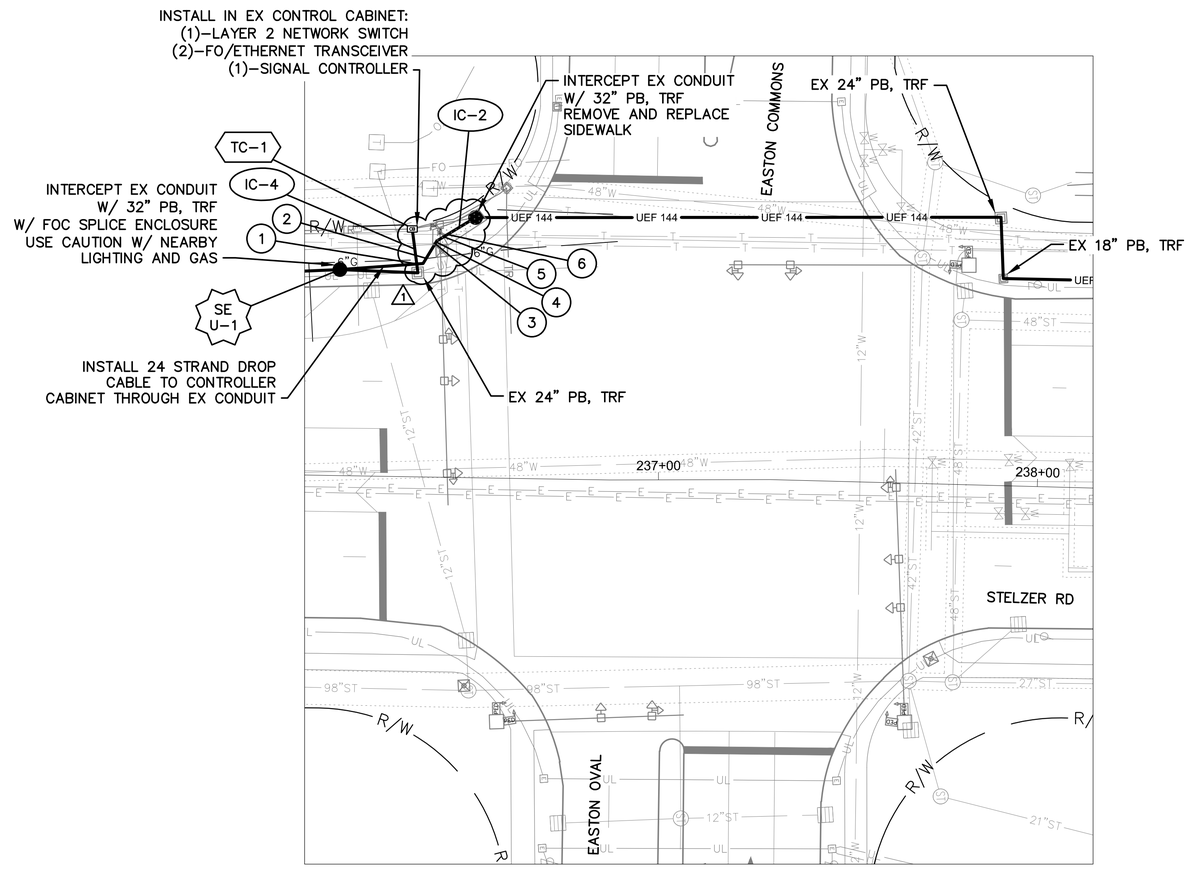
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

526
915

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STELZER RD BETWEEN STATION 230+00 AND 241+00



DETAIL - INT 3276

0 20 40
HORIZONTAL SCALE IN FEET

NOTES:

1. SEE SHEET 533 FOR QUANTITIES.
2. SEE SHEETS 624 & 771 FOR COMMUNICATION DETAILS.

(#) EXISTING UTILITY CROSSING. SEE UTILITY CROSSING INFO SHEET 326.

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CITY OF COLUMBUS UTILITY LEGEND

- SEWER
- WATER
- POWER
- LIGHTING



REFER TO SHEET 315 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

0 40 80
HORIZONTAL SCALE IN FEET

CIP: 540007–100012
PID NUMBER: 99733

INTERCONNECT PLAN
STELZER RD BETWEEN STA. 230+00 AND 241+00, INT 3276

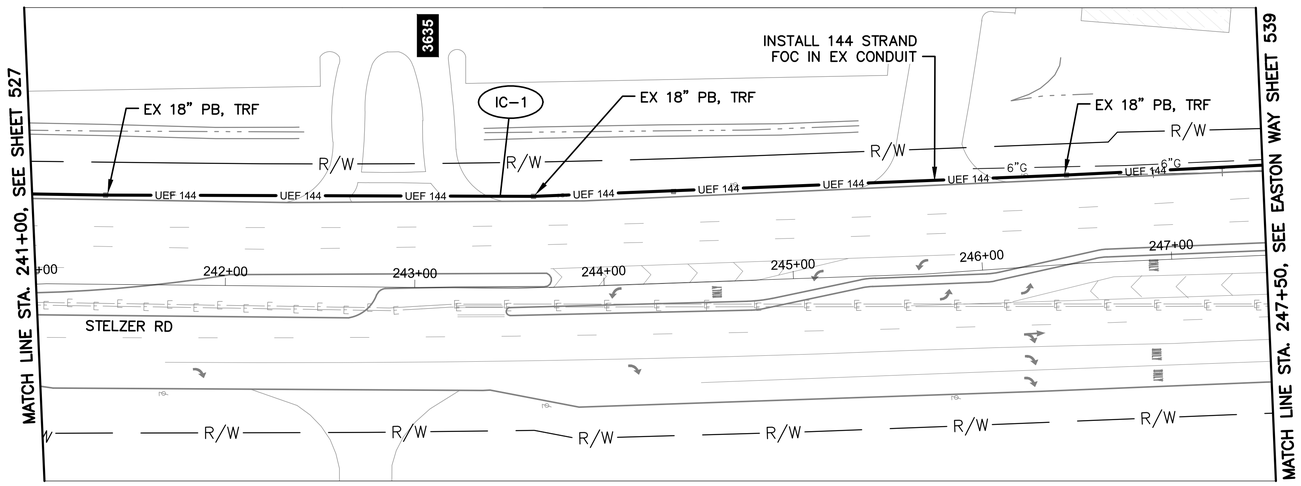
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

1 REVISION 1.0
11–02–2018

3378-E

527
915

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STELZER RD BETWEEN STATION 241+00 AND 247+50

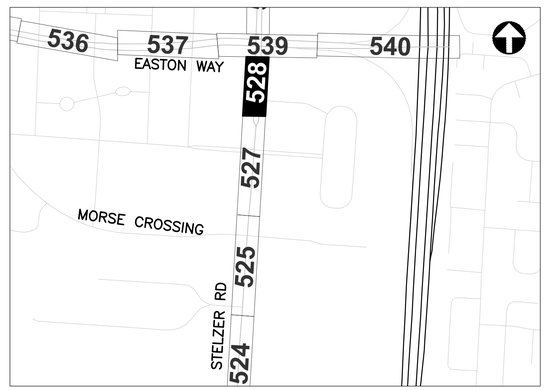
NOTES:

1. SEE SHEET 533 FOR QUANTITIES.
2. SEE SHEET 624 FOR COMMUNICATION DETAILS.

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CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 315 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

3378-E

HORIZONTAL SCALE IN FEET
0 40 80

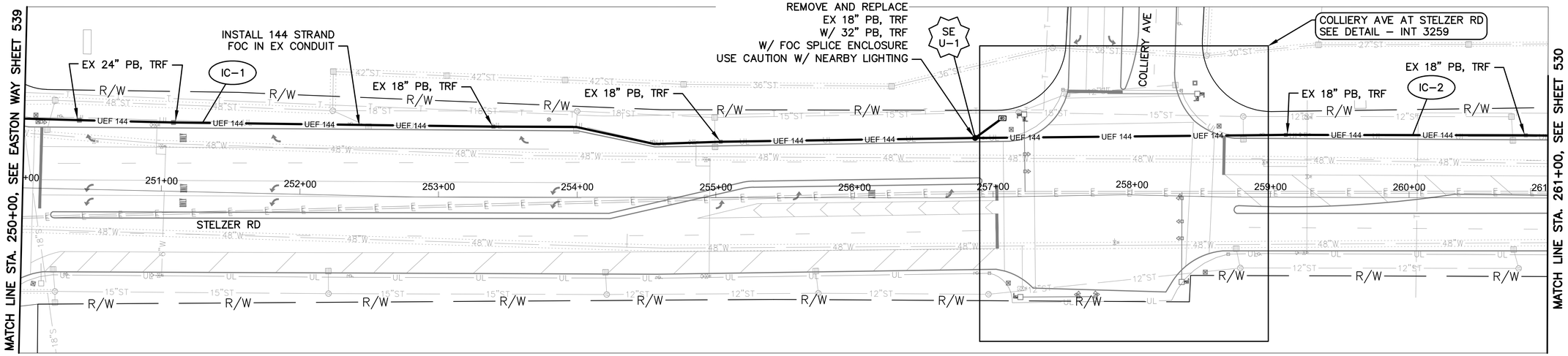
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PID NUMBER: 99733

INTERCONNECT PLAN
STELZER RD BETWEEN STA. 241+00 AND 247+50

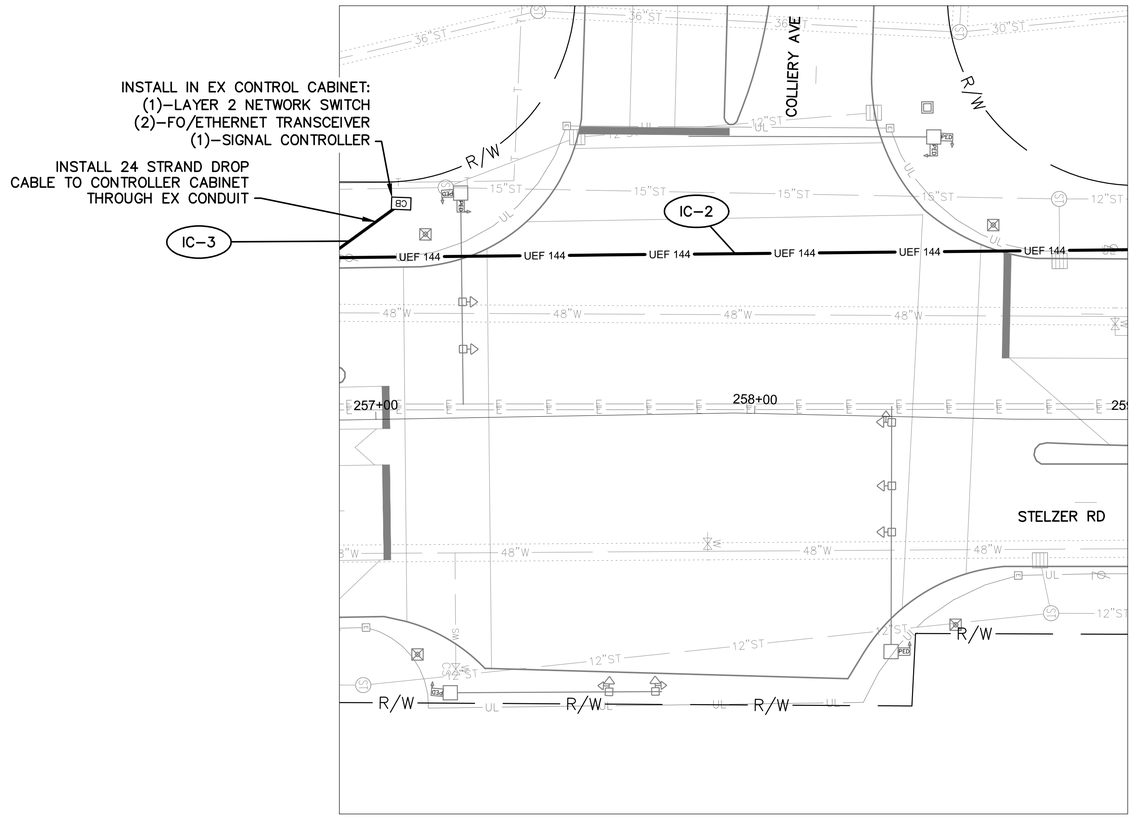
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

528
915

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STELZER RD BETWEEN STATION 250+00 AND 261+00



DETAIL - INT 3259

0 20 40
HORIZONTAL SCALE IN FEET

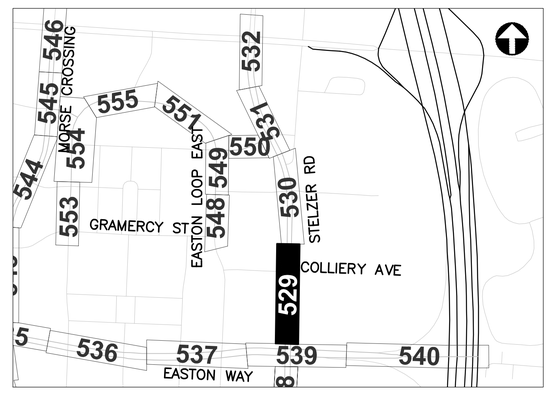
NOTES:

1. SEE SHEET 533 FOR QUANTITIES.
2. SEE SHEETS 624 & 780 FOR COMMUNICATION DETAILS.

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CITY OF COLUMBUS UTILITY LEGEND

- SEWER
- WATER
- POWER
- LIGHTING



REFER TO SHEET 315 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

0 40 80
HORIZONTAL SCALE IN FEET

CIP: 540007–100012
PID NUMBER: 99733

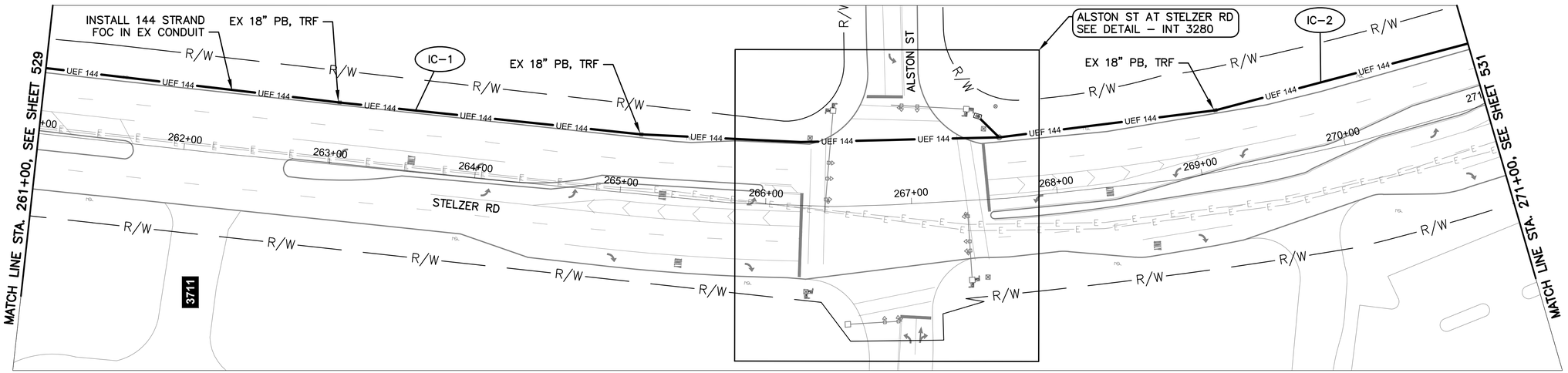
INTERCONNECT PLAN
STELZER RD BETWEEN STA. 250+00 AND 261+00, INT 3259

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

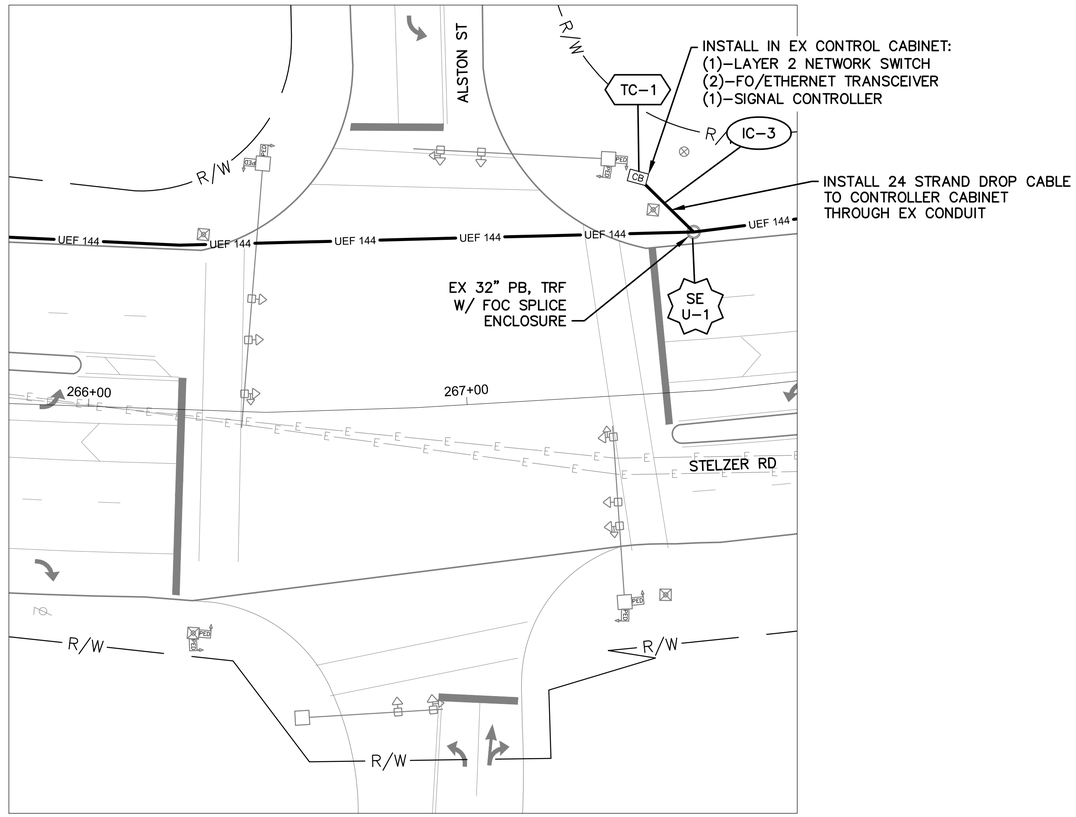
529
915

3378-E

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STELZER RD BETWEEN STATION 261+00 AND 271+00



DETAIL - INT 3280

0 20 40
HORIZONTAL SCALE IN FEET

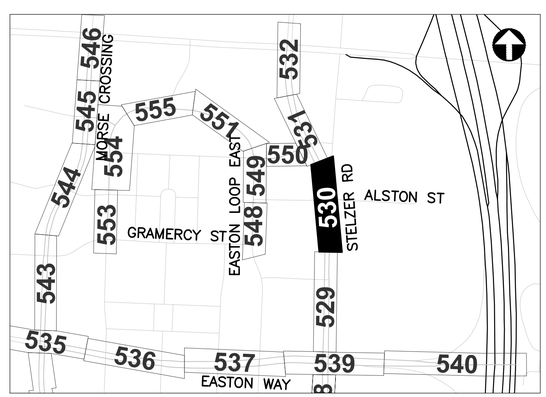
NOTES:

1. SEE SHEET 533 FOR QUANTITIES.
2. SEE SHEETS 624 & 781 FOR COMMUNICATION DETAILS.

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CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 315 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

0 40 80
HORIZONTAL SCALE IN FEET

CIP: 540007–100012
PID NUMBER: 99733

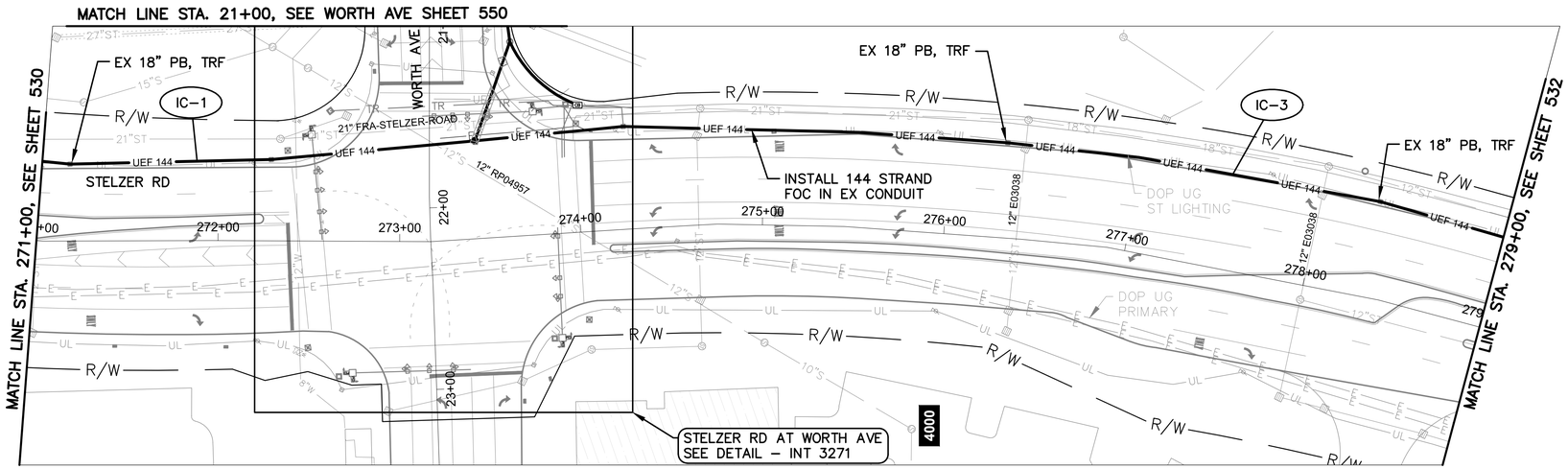
INTERCONNECT PLAN
STELZER RD BETWEEN STA. 261+00 AND 271+00, INT 3280

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

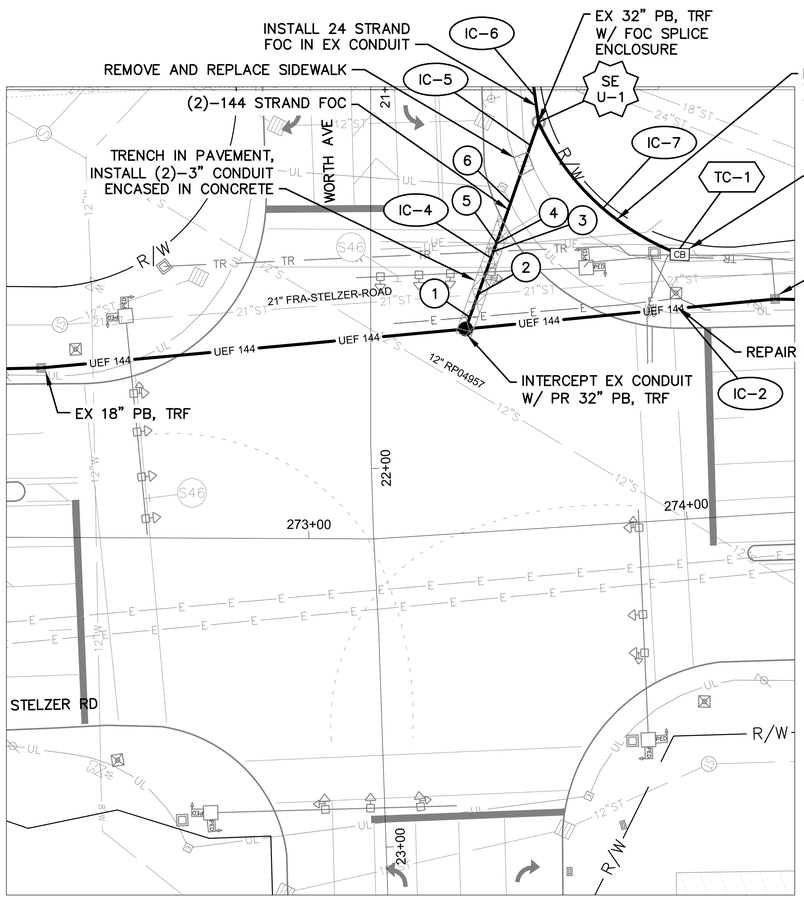
530
915

3378-E

J:\Jobs\63721 CTSS Phase E\TECHPROD\Sheets\CTSS_PhE_Trunk4_STELZER_2_INTERCONNECT.dwg ~ STELZER-16 layout ~ last saved by: gburch 09/13/2018 04:03pm ~ printed 09/13/2018 06:12pm PSLTS: 1 LTS: 1 CAS: 1:1

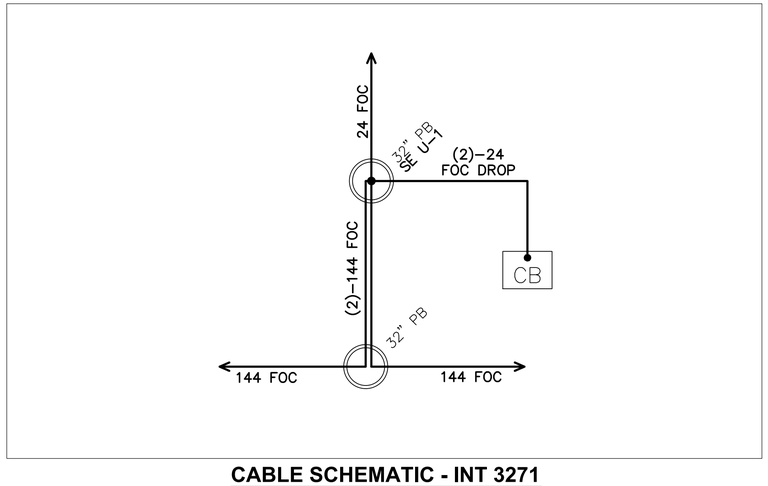


STELZER RD BETWEEN STATION 271+00 AND 279+00



DETAIL - INT 3271

0 20 40
HORIZONTAL SCALE IN FEET



CABLE SCHEMATIC - INT 3271
NOT TO SCALE

NOTES:

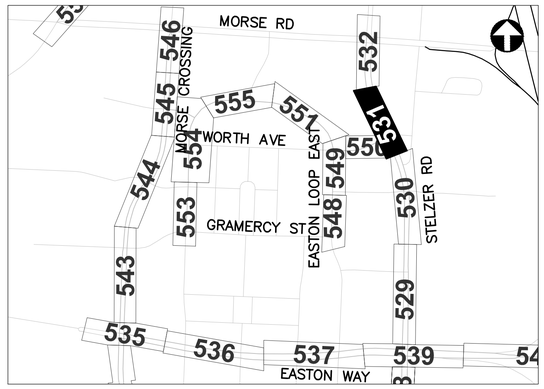
1. SEE SHEET 533 FOR QUANTITIES.
2. SEE SHEETS 624 & 782 FOR COMMUNICATION DETAILS.

(#) EXISTING UTILITY CROSSING. SEE UTILITY CROSSING INFO SHEET 326.

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CITY OF COLUMBUS UTILITY LEGEND

- SEWER
- WATER
- POWER
- LIGHTING



REFER TO SHEET 315 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

0 40 80
HORIZONTAL SCALE IN FEET

CIP: 540007–100012
PID NUMBER: 99733

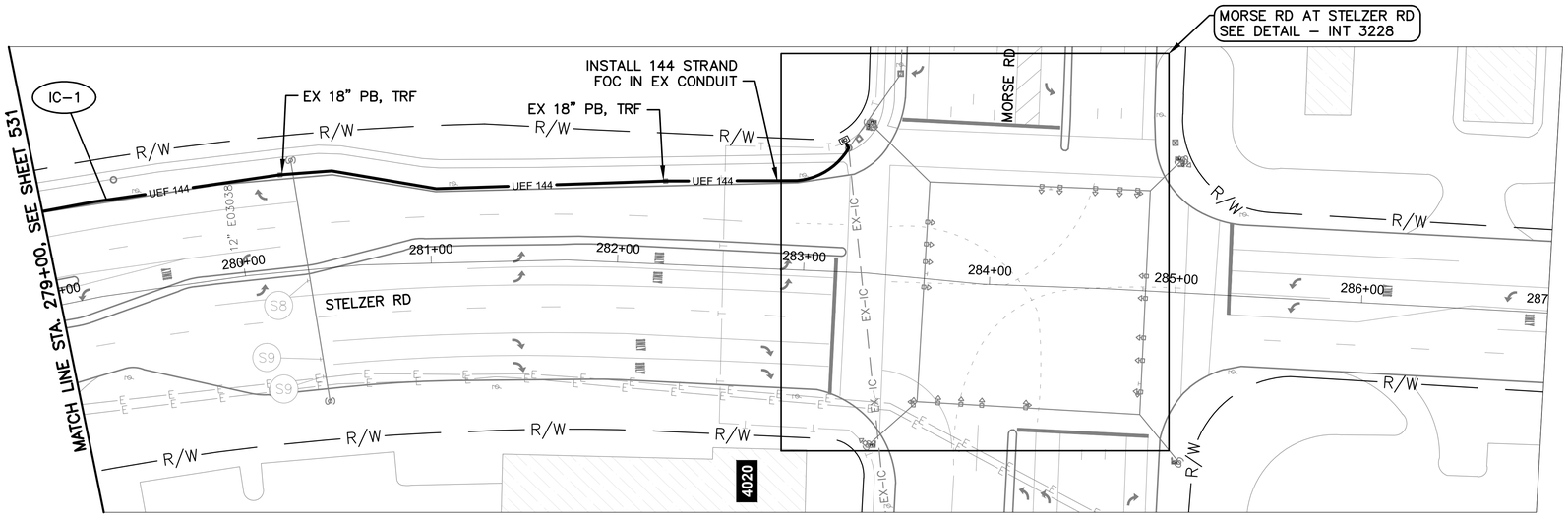
INTERCONNECT PLAN
STELZER RD BETWEEN STA. 271+00 AND 279+00, INT 3271

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

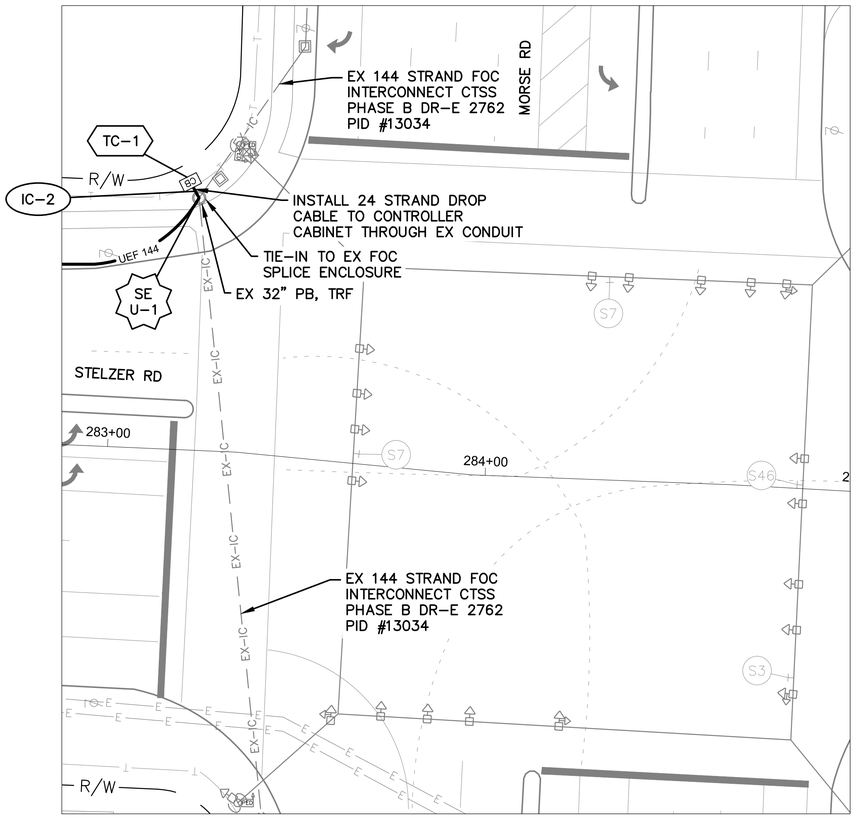
531
915

3378-E

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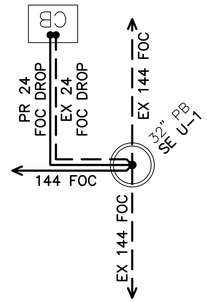


STELZER RD BETWEEN STATION 279+00 AND 287+00



DETAIL - INT 3228

0 20 40
HORIZONTAL
SCALE IN FEET



CABLE SCHEMATIC - INT 3228
NOT TO SCALE

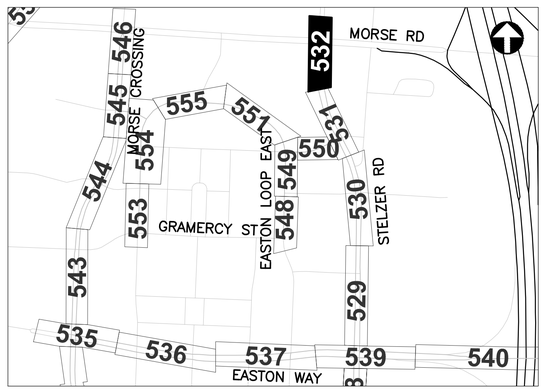
NOTES:

1. SEE SHEET 533 FOR QUANTITIES.
2. SEE SHEET 624 & 783 FOR COMMUNICATION DETAILS.

(#) EXISTING UTILITY CROSSING.
SEE UTILITY CROSSING INFO
SHEET 326.

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CITY OF COLUMBUS
UTILITY LEGEND
- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 315 FOR
INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

3378-E

0 40 80
HORIZONTAL
SCALE IN FEET

CIP: 540007–100012
PID NUMBER: 99733

INTERCONNECT PLAN
STELZER RD BETWEEN STA. 279+00 AND 287+00, INT 3228

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

532
915

J:\Jobs\6372\1 ctss phase e\TECHPROD\Sheets\CTSS_PhE_Trunk4_STELZER_2_INTERCONNECT.dwg ~ STELZER-18 layout ~ last saved by: gburch 09/07/2018 12:04pm ~ printed 09/12/2018 05:09am PSLTS: 1 LTS: 1 CAS: 1:1

ESTIMATED QUANTITIES

SHEET NO.	REFERENCE NO.	LOCATION	STATION		202	202	608	625	625	625	625	625	625	632	632	632	632	632	632	633	633	633		
					EXISTING CONDUIT CLEANED, AS PER PLAN	WALK REMOVED	8" CONCRETE WALK	CONDUIT, CONCRETE ENCASED, 2-3", 725.05, AS PER PLAN	CONDUIT, MISC.: CONDUIT RESTORATION	PULL BOX, CONCRETE 32", AS PER PLAN	PULL BOX, REMOVED, AS PER PLAN	TRENCH, 36" DEEP, AS PER PLAN	TRENCH IN PAVED AREA, AS PER PLAN	INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 144 STRAND	INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 24 STRAND	INTERCONNECT CABLE, MISC.: FIBER OPTIC DROP CABLE, 24 STRAND	INTERCONNECT CABLE, MISC.: FIBER OPTIC FUSION SPLICE	INTERCONNECT CABLE, MISC.: TERMINATION PANEL, 24 FIBER	INTERCONNECT, MISC.: SPLICE ENCLOSURE, CLAMSHELL, 288 SPLICE	CONTROLLER ITEM, MISC.: FIBER OPTIC ETHERNET TRANSCEIVER, SHORT RANGE	CONTROLLER ITEM, MISC.: LAYER 2 ETHERNET SWITCH	CONTROLLER UNIT, TYPE TS2/A2, AS PER PLAN		
			FROM	TO	FT	SF	SF	FT	FT	EACH	EACH	FT	FT	FT	FT	FT	EACH	EACH	EACH	EACH	EACH	EACH		
STELZER RD. BETWEEN STA. 230+00 AND 241+00, INT 3276																								
527	IC-1	STELZER RD	230+00, 38' LT	236+15, 54' LT	615									615										
527	SE U-1	STELZER RD	236+15, 54' LT							1				150		125	24		1					
527	IC-2	STELZER RD	236+15, 54' LT	236+51, 69' LT		72	72	48		1		48		48										
527	IC-4	STELZER RD	236+15, 54' LT	236+34, 69' LT	34											34								
527	TC-1	STELZER RD	236+34, 69' LT													10		1		2	1	1		
527	IC-3	STELZER RD	236+51, 69' LT	241+00, 48' LT	462									462										
STELZER RD. BETWEEN STA. 241+00 AND 247+50										⚠1														
528	IC-1	STELZER RD	241+00, 48' LT	247+50, 48' LT	650									650										
STELZER RD. BETWEEN STA. 250+00 AND 261+00, INT 3259																								
529	IC-1	STELZER RD	250+00, 50' LT	256+88, 43' LT	687									687										
529	IC-3	STELZER RD	256+88, 43' LT	257+07, 57' LT	24											24								
529	SE U-1	STELZER RD	256+88, 43' LT							1	1			150		125	24		1					
529	IC-2	STELZER RD	256+88, 43' LT	261+00, 45' LT	413									413										
529	TC-1	STELZER RD	257+07, 57' LT													10		1		2	1	1		
STELZER RD. BETWEEN STA. 261+00 AND 271+00, INT 3280																								
530	IC-1	STELZER RD	261+00, 45' LT	267+62, 42' LT	686									686										
530	TC-1	STELZER RD	267+48, 57' LT													10		1		2	1	1		
530	IC-3	STELZER RD	267+48, 57' LT	267+62, 42' LT	21											21								
530	SE U-1	STELZER RD	267+62, 42' LT											150		125	24		1					
530	IC-2	STELZER RD	267+62, 42' LT	271+00, 44' LT	328									328										
STELZER RD. BETWEEN STA. 271+00 AND 279+00, INT 3271																								
531	IC-1	STELZER RD	271+00, 44' LT	274+01, 56' LT	297									297										
531	IC-4	STELZER RD	273+45, 54' LT	273+57, 81' LT				30		1			30	60										
531	IC-5	STELZER RD	273+57, 81' LT	237+68, 107' LT		20	20	28				28		56										
531	IC-6	STELZER RD	273+67, 116' LT	237+68, 107' LT	9										9									
531	SE U-1	STELZER RD	237+68, 107' LT											150	75	250	36		1					
531	IC-7	STELZER RD	237+68, 107' LT		52											104								
531	IC-2	STELZER RD	274+01, 56' LT						10															
531	IC-3	STELZER RD	274+01, 56' LT	279+00, 51' LT	512									512										
531	TC-1	STELZER RD	274+03, 70' LT													20		2		2	1	1		
STELZER RD. BETWEEN STA. 279+00 AND 287+00, INT 3228																								
532	IC-1	STELZER RD	279+00, 55' LT	283+21, 67' LT	437									437										
532	TC-1	STELZER RD	283+18, 71' LT													10		1						
532	IC-2	STELZER RD	283+18, 71' LT	283+21, 67' LT	5											5								
532	SE U-1	STELZER RD	283+21, 67' LT											75		125	204							
SHEET TOTAL					5,232	92	92	106	10	4	1	76	30	5,926	84	998	312	6	4	8	4	4	-	-

AERIAL SAG: 1.5% AERIAL SAG IS INCLUDED IN THE QUANTITIES FOR ANY AERIAL FIBER OR CABLE ITEMS.

⚠1 REVISION 1.0
11–02–2018

3378-E

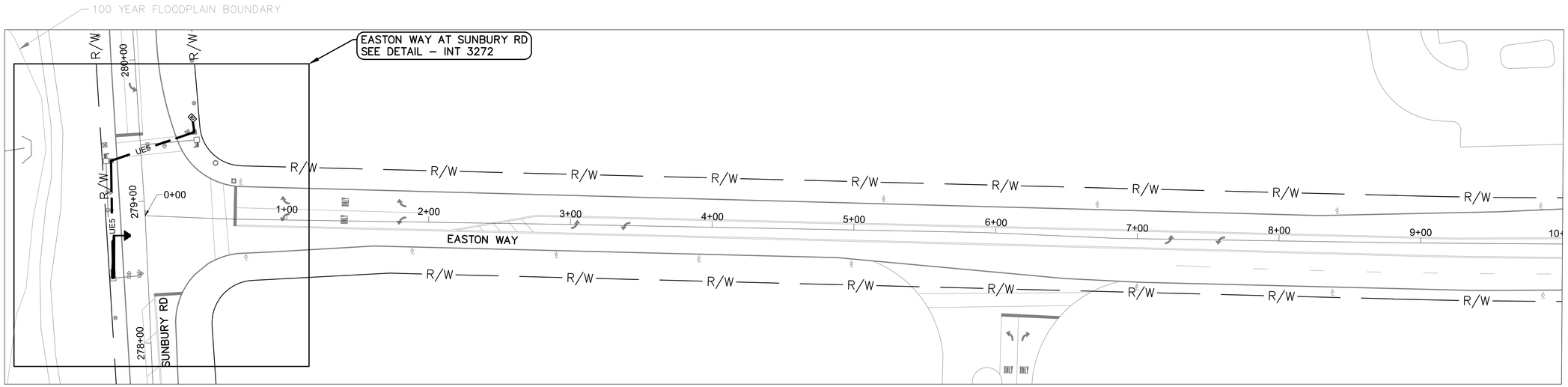
CIP: 540007–100012
PID NUMBER: 99733

STELZER RD BETWEEN STA. 230+00 & 287+00
INTS 3276, 3259, 3280, 3271, 3228

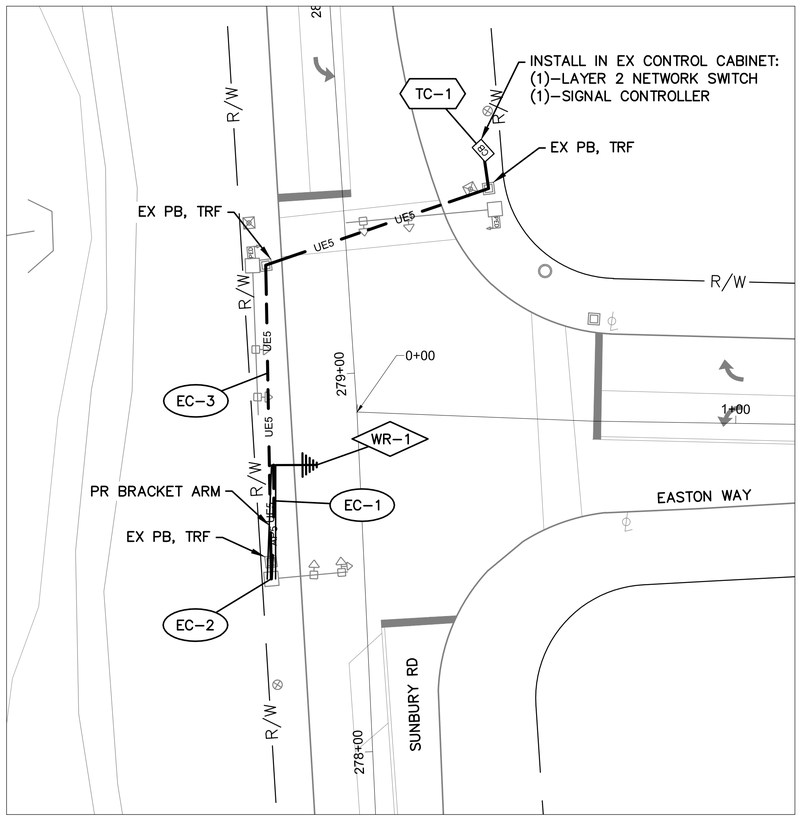
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

533
915

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EASTON WAY BETWEEN STATION 0+00 AND 10+00



DETAIL - INT 3272

0 20 40
HORIZONTAL SCALE IN FEET

NOTES:

1. SEE SHEET 538 FOR QUANTITIES.
2. SEE SHEETS 624 & 772 FOR COMMUNICATION DETAILS.

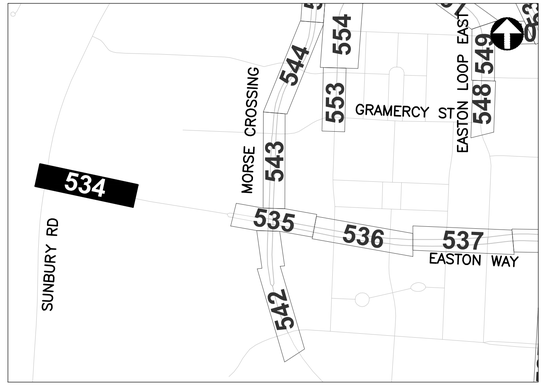
INT 3272 WITH PROPOSED SIGNAL CONTROLLER

PROPOSED WIRELESS
SEE SHEET 535
INT 3241 – EASTON WAY
AT MORSE CROSSING

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CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 315 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

0 40 80
HORIZONTAL SCALE IN FEET

CIP: 540007–100012
PID NUMBER: 99733

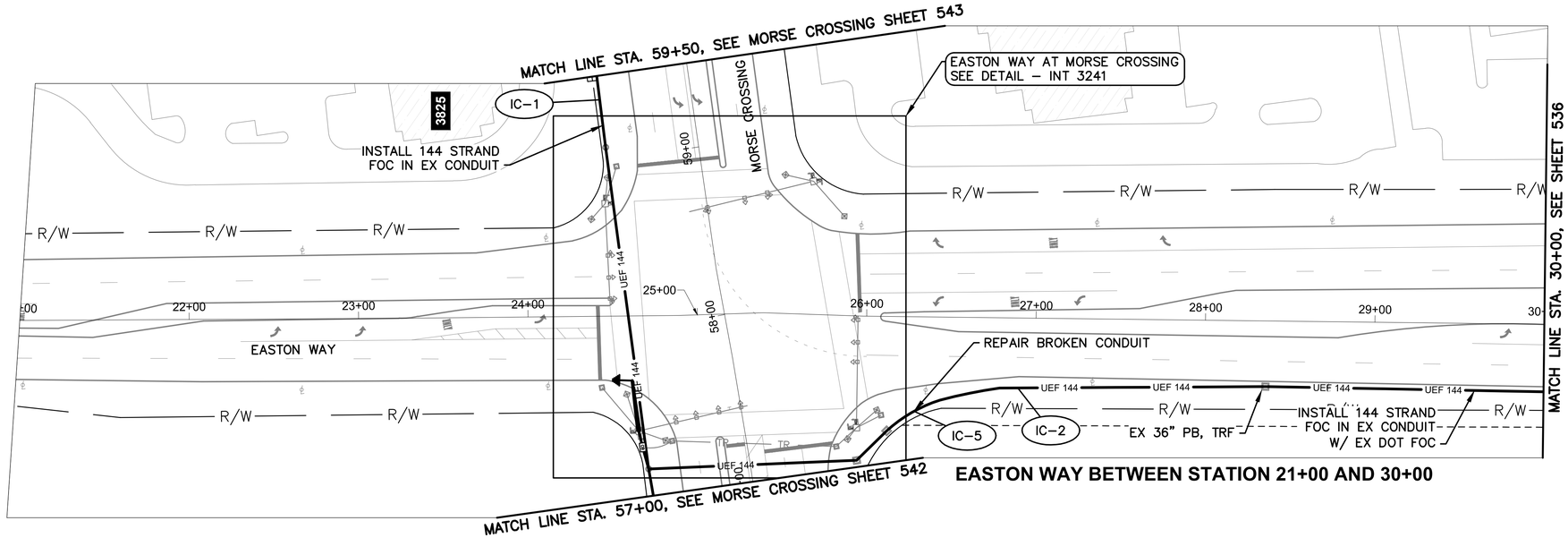
INTERCONNECT PLAN
EASTON WAY BETWEEN STA. 0+00 AND 10+00, INT 3272

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

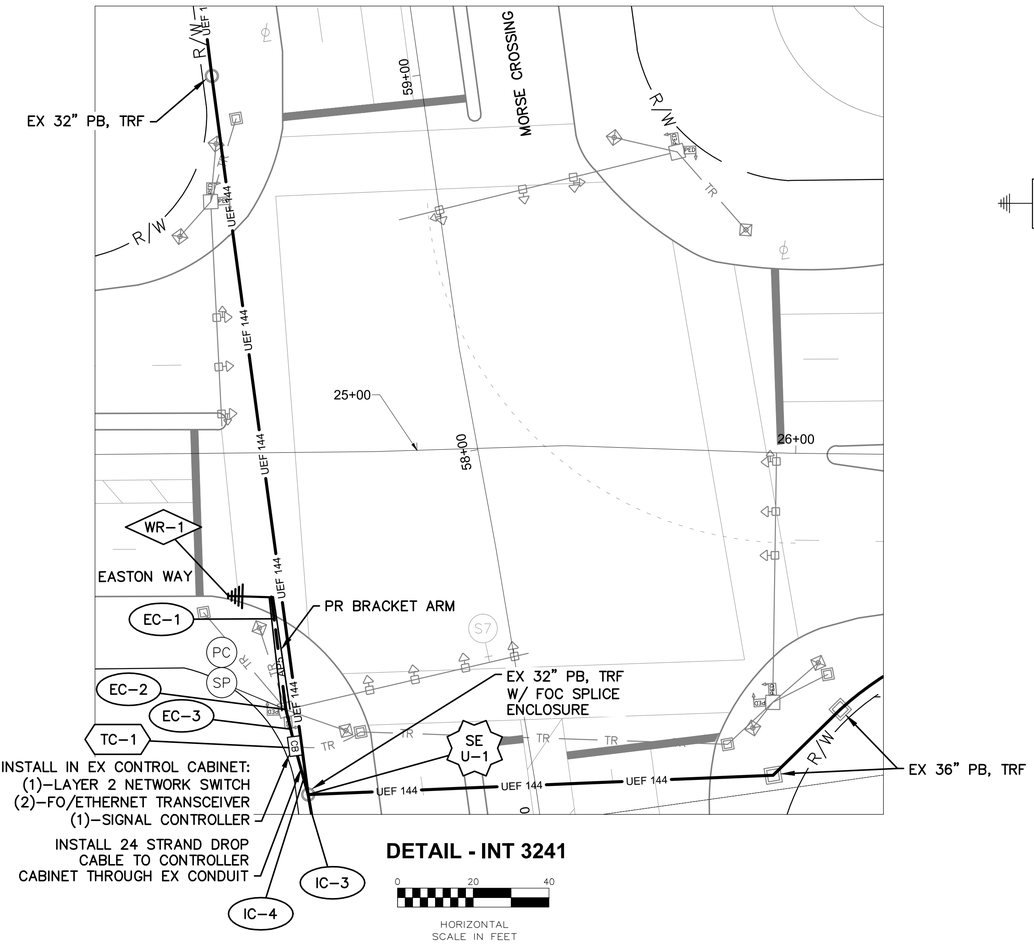
534
915

3378-E

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EASTON WAY BETWEEN STATION 21+00 AND 30+00



DETAIL - INT 3241

0 20 40
HORIZONTAL SCALE IN FEET

INT 3241 WITH PROPOSED SIGNAL CONTROLLER

PROPOSED WIRELESS
SEE SHEET 534
INT 3272 – EASTON WAY
AT SUNBURY ROAD

NOTES:

1. SEE SHEET 538 FOR QUANTITIES.
2. SEE SHEETS 624 & 774 FOR COMMUNICATION DETAILS.

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CITY OF COLUMBUS UTILITY LEGEND
- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 315 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

0 40 80
HORIZONTAL SCALE IN FEET

CIP: 540007–100012
PID NUMBER: 99733

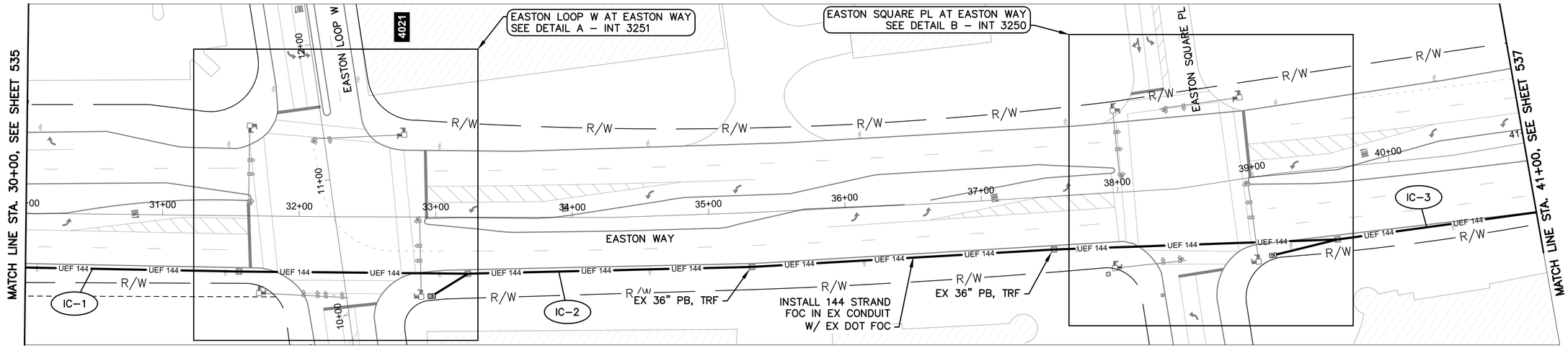
INTERCONNECT PLAN
EASTON WAY BETWEEN STA. 21+00 AND 30+00, INT 3241

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

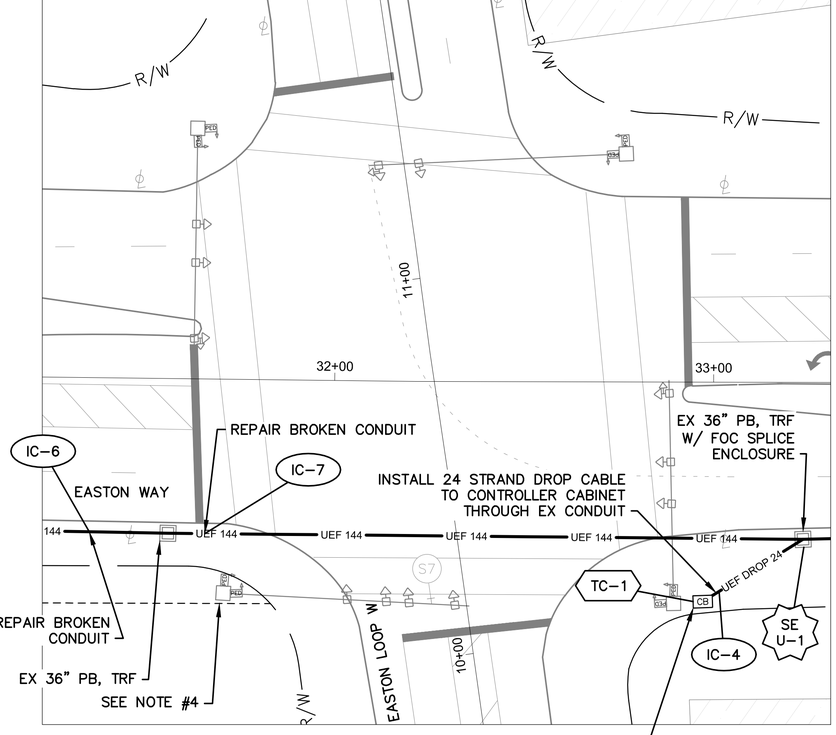
3378-E

535
915

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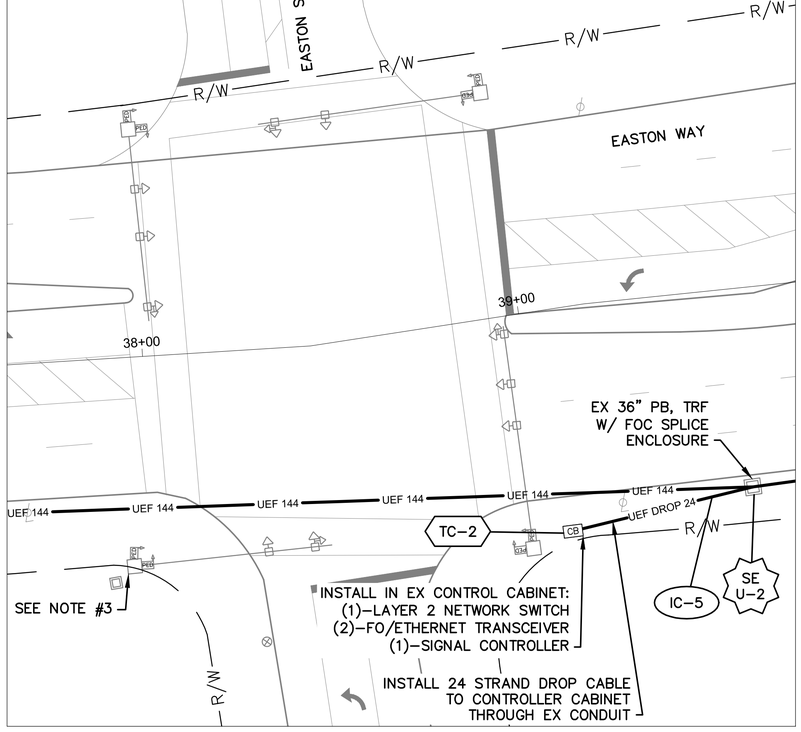


EASTON WAY BETWEEN STATION 30+00 AND 41+00



DETAIL A - INT 3251

0 20 40
HORIZONTAL SCALE IN FEET



DETAIL B - INT 3250

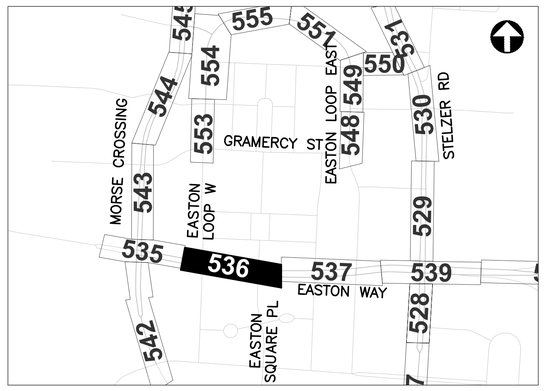
0 20 40
HORIZONTAL SCALE IN FEET

NOTES:

1. SEE SHEET 538 FOR QUANTITIES.
2. SEE SHEETS 624, 775, & 776 FOR COMMUNICATION DETAILS.
3. SIGNAL AGREEMENT CT–01068R IN PLACE BETWEEN CITY OF COLUMBUS AND THE OWNER OF THE REAL PROPERTY AT 3976 REGENT STREET (160 EASTON TOWN CENTER) FOR MAINTENANCE OF TRAFFIC SIGNAL AT INT 3250.
4. EXISTING EASEMENT PER INSTRUMENT NUMBER #200605170096221.

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CITY OF COLUMBUS UTILITY LEGEND
- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 315 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

0 40 80
HORIZONTAL SCALE IN FEET

CIP: 540007–100012
PID NUMBER: 99733

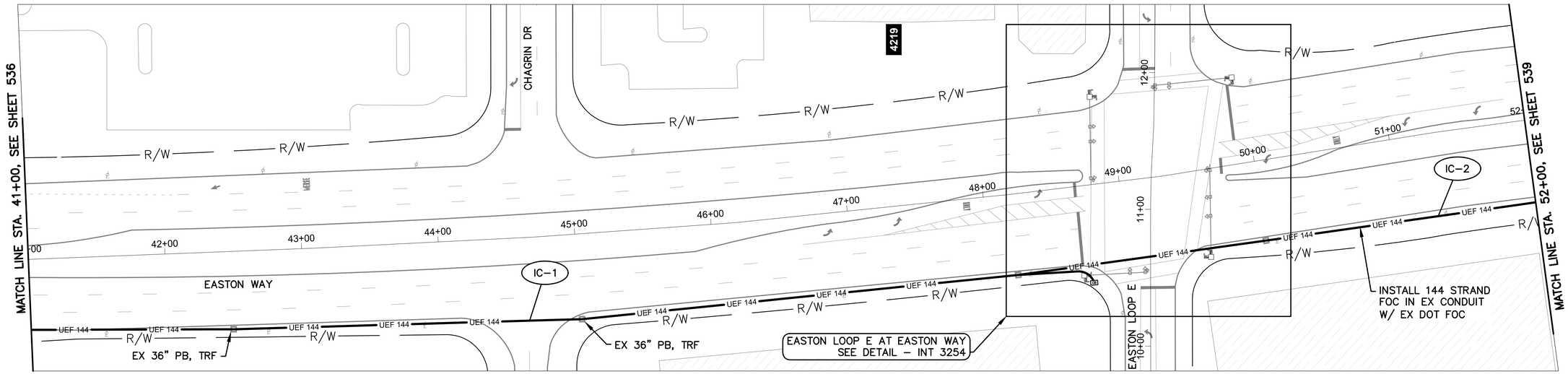
INTERCONNECT PLAN
EASTON WAY BETWEEN STA. 30+00 AND 41+00, INT 3251 & INT 3250

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

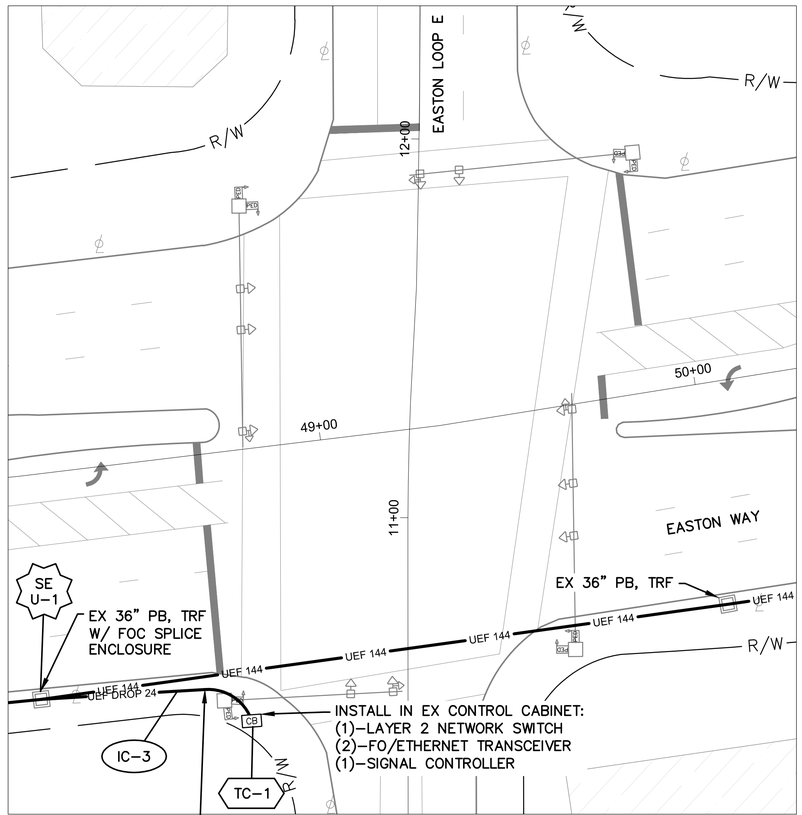
536
915

3378-E

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EASTON WAY BETWEEN STATION 41+00 AND 52+00



DETAIL - INT 3254

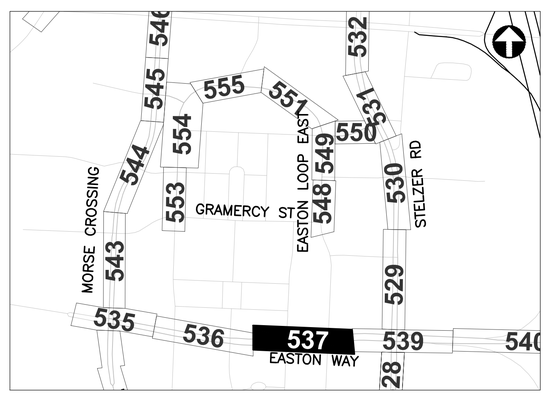
NOTES:

1. SEE SHEET 538 FOR QUANTITIES.
2. SEE SHEETS 624 & 777 FOR COMMUNICATION DETAILS.

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CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 315 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

0 40 80
HORIZONTAL
SCALE IN FEET

CIP: 540007–100012
PID NUMBER: 99733

INTERCONNECT PLAN
EASTON WAY BETWEEN STA. 41+00 AND 52+00, INT 3254

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

3378-E

537
915

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ESTIMATED QUANTITIES

SHEET NO.	REFERENCE NO.	LOCATION	STATION		202	625	625	632	632	632	632	632	632	633	633	633								
					EXISTING CONDUIT CLEANED, AS PER PLAN	BRACKET ARM, 30', AS PER PLAN	CONDUIT, MISC.: CONDUIT RESTORATION	INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 144 STRAND	INTERCONNECT CABLE, MISC.: FIBER OPTIC DROP CABLE, 24 STRAND	INTERCONNECT CABLE, MISC.: FIBER OPTIC FUSION SPLICE	INTERCONNECT CABLE, MISC.: TERMINATION PANEL, 24 FIBER	INTERCONNECT, MISC.: CAT 5E CABLE, OUTDOOR RATED	INTERCONNECT, MISC.: SPLICE ENCLOSURE, CLAMSHELL, 288 SPLICE	SPREAD SPECTRUM RADIO, AS PER PLAN	CONTROLLER ITEM, MISC.: FIBER OPTIC ETHERNET TRANSCEIVER, SHORT RANGE	CONTROLLER ITEM, MISC.: LAYER 2 ETHERNET SWITCH	CONTROLLER UNIT, TYPE TS2/A2, AS PER PLAN						
			FROM	TO	FT	EACH	FT	FT	FT	EACH	EACH	FT	EACH	EACH	EACH	EACH	EACH							
EASTON WAY BETWEEN STA. 0+00 AND 10+00, INT 3272																								
534	EC-1	SUNBURY RD	278+47, 25' LT	278+77, 22' LT								30												
534	EC-2	SUNBURY RD	278+47, 25' LT			1						35												
534	EC-3	SUNBURY RD/EASTON WAY	278+47, 25' LT	0+30, 70' LT	155							155												
534	WR-1	SUNBURY RD	278+77, 22' LT											1										
534	TC-1	EASTON WAY	0+30, 70' LT									10				1	1							
EASTON WAY BETWEEN STA. 21+00 AND 30+00, INT 3241																								
535	IC-1	EASTON WAY	24+42, 141' LT	24+70, 90' RT	234			234																
535	WR-1	EASTON WAY	24+60, 38' RT											1										
535	EC-1	EASTON WAY	24+60, 38' RT	24+64, 68' RT								30												
535	TC-1	EASTON WAY	24+63, 77' RT						20		2	10			2	1	1							
535	IC-4	EASTON WAY	24+63, 77' RT	24+70, 90' RT	13				26															
535	EC-3	EASTON WAY	24+63, 77' RT	24+64, 68' RT	10							10												
535	EC-2	EASTON WAY	24+64, 68' RT			1						35												
535	SE U-1	EASTON WAY	24+70, 90' RT					225	250	228			1											
535	IC-2	EASTON WAY	24+70, 90' RT	30+00, 40' RT	542			542																
535	IC-3	EASTON WAY	24+70, 90' RT	24+73, 106' RT	16			16																
535	IC-5	EASTON WAY	26+28, 65' RT	26+38, 56' RT			10																	
EASTON WAY BETWEEN STA. 30+00 AND 41+00, INTS 3251 & 3250																								
536	IC-1	EASTON WAY	30+00, 40' RT	33+23, 41' RT	324			324																
536	IC-6	EASTON WAY	31+21, 41' RT	31+31, 41' RT			10																	
536	IC-7	EASTON WAY	31+61, 41' LT	31+71, 41' LT			10																	
536	TC-1	EASTON WAY	32+97, 58' RT						10		1				2	1	1							
536	IC-4	EASTON WAY	32+97, 58' RT	33+23, 41' RT	31				31															
536	SE U-1	EASTON WAY	33+23, 41' RT					150	125	24			1											
536	IC-2	EASTON WAY	33+23, 41' RT	39+56, 53' RT	638			638																
536	TC-2	EASTON WAY	39+05, 63' RT						10		1				2	1	1							
536	IC-5	EASTON WAY	39+05, 63' RT	39+56, 53' RT	49				49															
536	SE U-2	EASTON WAY	39+56, 53' RT					150	125	24			1											
536	IC-3	EASTON WAY	39+56, 53' RT	41+00, 52' RT	147			147																
EASTON WAY BETWEEN STA. 41+00 AND 52+00, INT 3254																								
537	IC-1	EASTON WAY	41+00, 52' RT	48+19, 59' RT	724			724																
537	SE U-1	EASTON WAY	48+19, 59' RT					150	125	24			1											
537	IC-3	EASTON WAY	48+19, 59' RT	48+69, 73' RT	53				53															
537	IC-2	EASTON WAY	48+19, 59' RT	52+00, 61' RT	382			382																
537	TC-1	EASTON WAY	48+69, 73' RT						10		1				2	1	1							
SHEET TOTAL					3,318	2	30	3,682	834	300	5	315	4	2	8	5	5	-	-	-	-	-	-	-

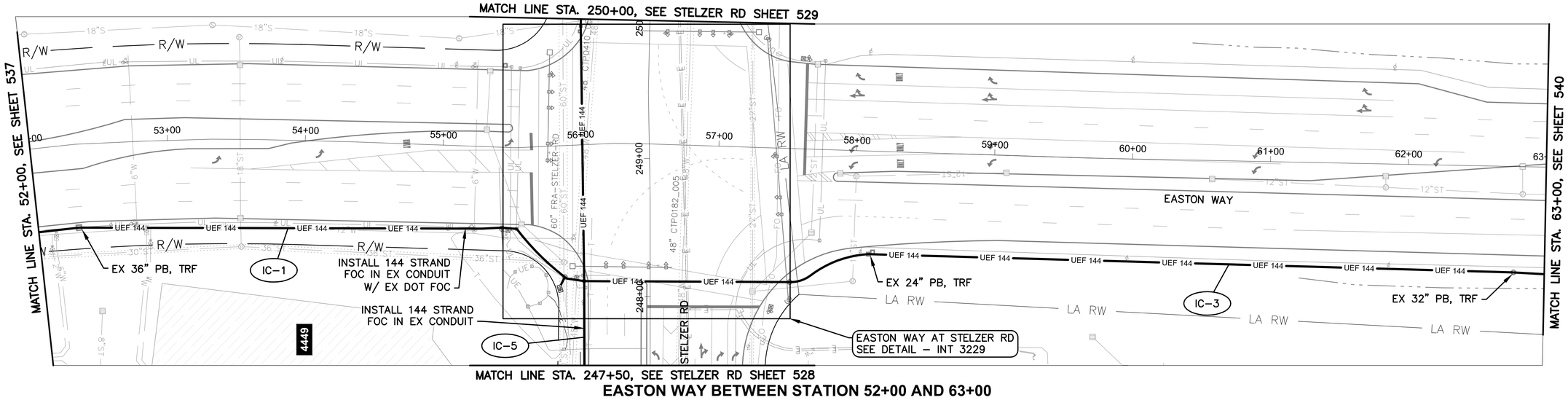
AERIAL SAG: 1.5% AERIAL SAG IS INCLUDED IN THE QUANTITIES FOR ANY AERIAL FIBER OR CABLE ITEMS.

CIP: 540007–100012
PID NUMBER: 99733

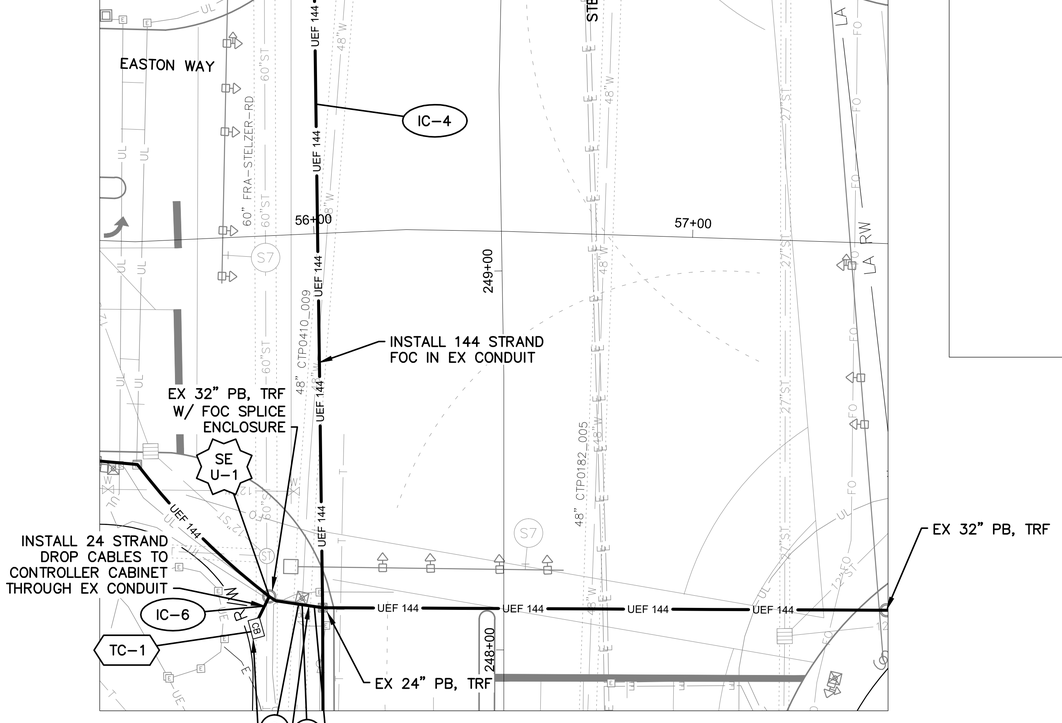
EASTON WAY BETWEEN STA. 0+00 & 52+00
INTS 3272, 3241, 3251, 3254

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

J:\Jobs\63721 CTSS Phase E\TECHPROD\Sheets\CTSS_PhE_Trunk4_EASTON_WAY_IC_QUANTITIES.dwg ~ EASTON_WAY_Q1 layout ~ last saved by: gburch 03/26/2018 03:05pm ~ printed 09/18/2018 10:39am PSLTS: 1 LTS: 1 CAS: 1:1

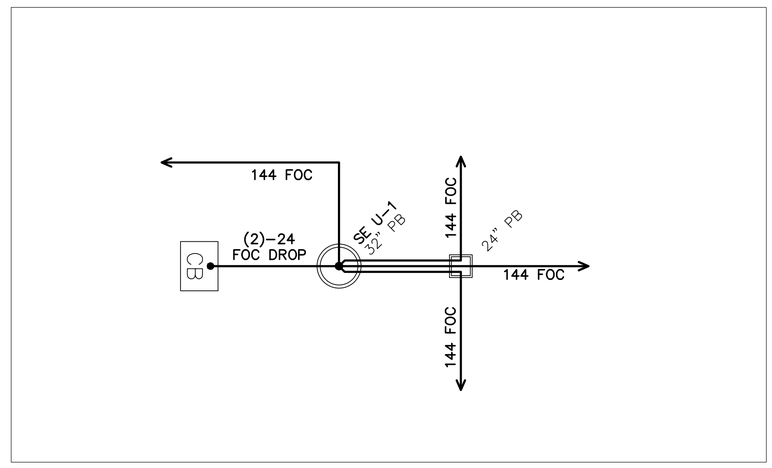


EASTON WAY BETWEEN STATION 52+00 AND 63+00



DETAIL - INT 3229

0 20 40
HORIZONTAL SCALE IN FEET



CABLE SCHEMATIC - INT 3229
NOT TO SCALE

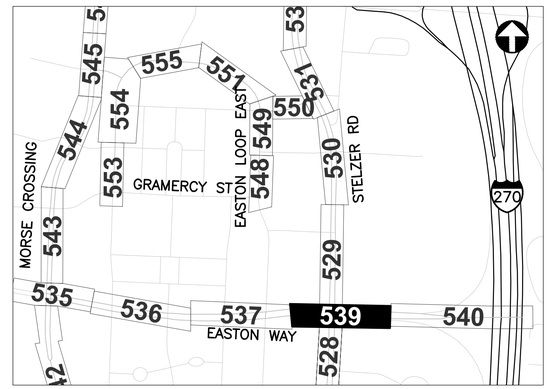
NOTES:

1. SEE SHEET 541 FOR QUANTITIES.
2. SEE SHEETS 624 & 778 FOR COMMUNICATION DETAILS.

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CITY OF COLUMBUS UTILITY LEGEND

- SEWER
- WATER
- POWER
- LIGHTING



REFER TO SHEET 315 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

0 40 80
HORIZONTAL SCALE IN FEET

CIP: 540007–100012
PID NUMBER: 99733

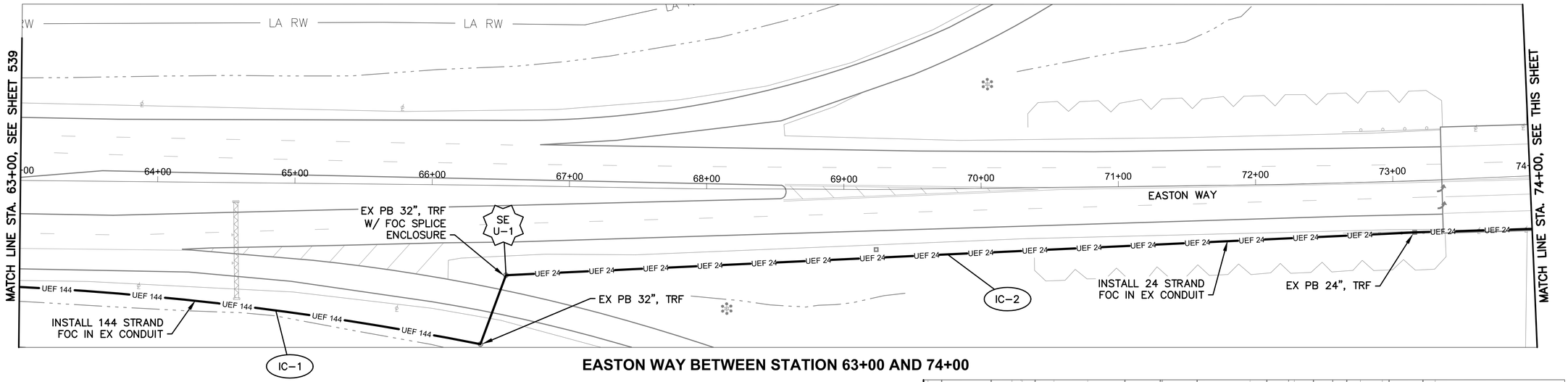
INTERCONNECT PLAN
EASTON WAY BETWEEN STA. 52+00 AND 63+00, INT 3229

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

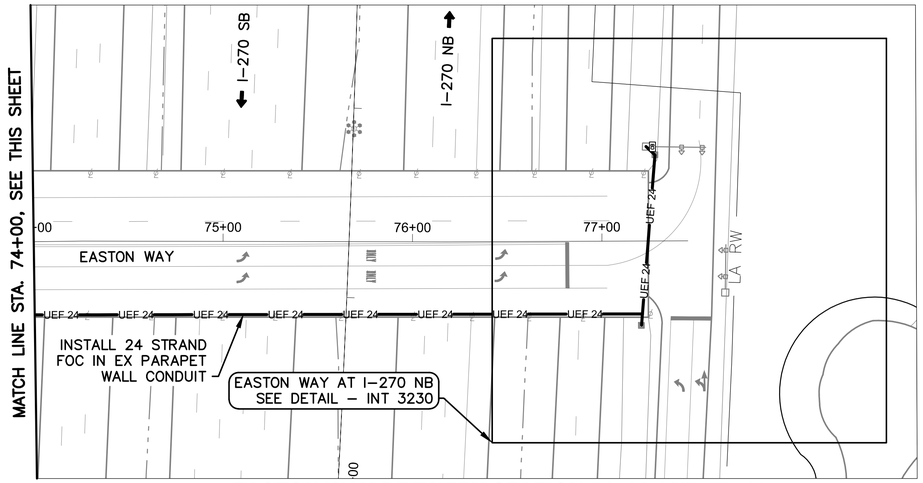
3378-E

539
915

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EASTON WAY BETWEEN STATION 63+00 AND 74+00



EASTON WAY BETWEEN STATION 74+00 AND 77+45

DETAIL - INT 3230

0 20 40
HORIZONTAL
SCALE IN FEET

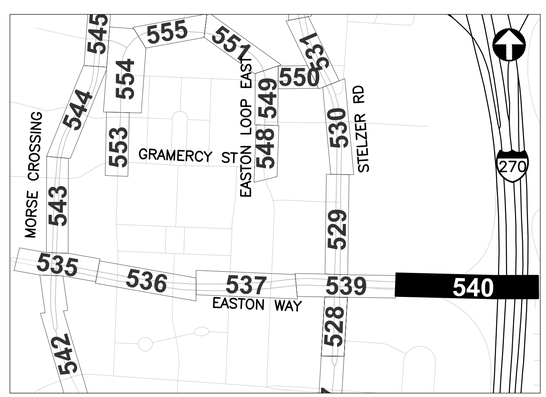
NOTES:

1. SEE SHEET 541 FOR QUANTITIES.
2. SEE SHEETS 624 & 779 FOR COMMUNICATION DETAILS.
3. EXISTING CONDUIT TO CONTROLLER CABINET IS FULL. INSTALL NEW FLEXIBLE CONDUIT TO CABINET FOR PROPOSED DROP CABLE.

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CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 315 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

0 40 80
HORIZONTAL
SCALE IN FEET

CIP: 540007-100012
PID NUMBER: 99733

INTERCONNECT PLAN
EASTON WAY BETWEEN STA. 63+00 AND 77+45, INT 3230

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E - FINAL SUBMITTAL

540
915

3378-E

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ESTIMATED QUANTITIES

SHEET NO.	REFERENCE NO.	LOCATION	STATION		202	625	625	632	632	632	632	632	632	632	633	633	633								
					EXISTING CONDUIT CLEANED, AS PER PLAN	CONDUIT, CONCRETE ENCASED, 2-3", 725.05, AS PER PLAN	TRENCH, 36" DEEP, AS PER PLAN	INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 144 STRAND	INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 24 STRAND	INTERCONNECT CABLE, MISC.: FIBER OPTIC DROP CABLE, 24 STRAND	INTERCONNECT CABLE, MISC.: FIBER OPTIC FUSION SPLICE	INTERCONNECT CABLE, MISC.: TERMINATION PANEL, 24 FIBER	INTERCONNECT, MISC.: SPLICE ENCLOSURE, DOME, 144 SPLICE	INTERCONNECT, MISC.: SPLICE ENCLOSURE, DOME, 800 SPLICE	CONTROLLER ITEM, MISC.: FIBER OPTIC ETHERNET TRANSCEIVER, SHORT RANGE	CONTROLLER ITEM, MISC.: LAYER 2 ETHERNET SWITCH	CONTROLLER UNIT, TYPE TS2/A2, AS PER PLAN							
			FROM	TO	FT	FT	FT	FT	FT	FT	EACH	EACH	EACH	EACH	EACH	EACH	EACH							
EASTON WAY BETWEEN STA. 52+00 AND 63+00, INT 3229																									
539	IC-1	EASTON WAY	52+00, 61' RT	55+85, 102' RT	399			399																	
539	TC-1	EASTON WAY	55+79, 104' RT							20		2			2	1	1								
539	IC-6	EASTON WAY	55+79, 104' RT	55+85, 102' RT	6					12															
539	SE U-1	EASTON WAY	55+85, 102' RT					300		250	312			1											
539	IC-2	EASTON WAY	55+85, 102' RT	55+97, 105' RT		13	13	39																	
539	IC-5	EASTON WAY	55+95, 160' RT	55+97, 105' RT	55			55																	
539	IC-3	EASTON WAY	55+97, 105' RT	63+00, 78' RT	701			701																	
539	IC-4	EASTON WAY	55+97, 105' RT	56+04, 91' LT	196			196																	
EASTON WAY BETWEEN STA. 63+00 AND 77+45, INT 3230																									
540	IC-1	EASTON WAY	63+00, 78' RT	66+55, 64' RT	391			391																	
540	SE U-1	EASTON WAY	66+55, 64' RT					75	125		12		1												
540	IC-2	EASTON WAY	66+55, 64' RT	77+23, 50' LT	1,160				1,160																
540	TC-1	EASTON WAY	77+23, 50' LT						10			1			2	1	1								
SHEET TOTAL					2,908	13	13	2,156	1,295	282	324	3	1	1	4	2	2	-	-	-	-	-	-	-	

AERIAL SAG: 1.5% AERIAL SAG IS INCLUDED IN THE QUANTITIES FOR ANY AERIAL FIBER OR CABLE ITEMS.

3378-E

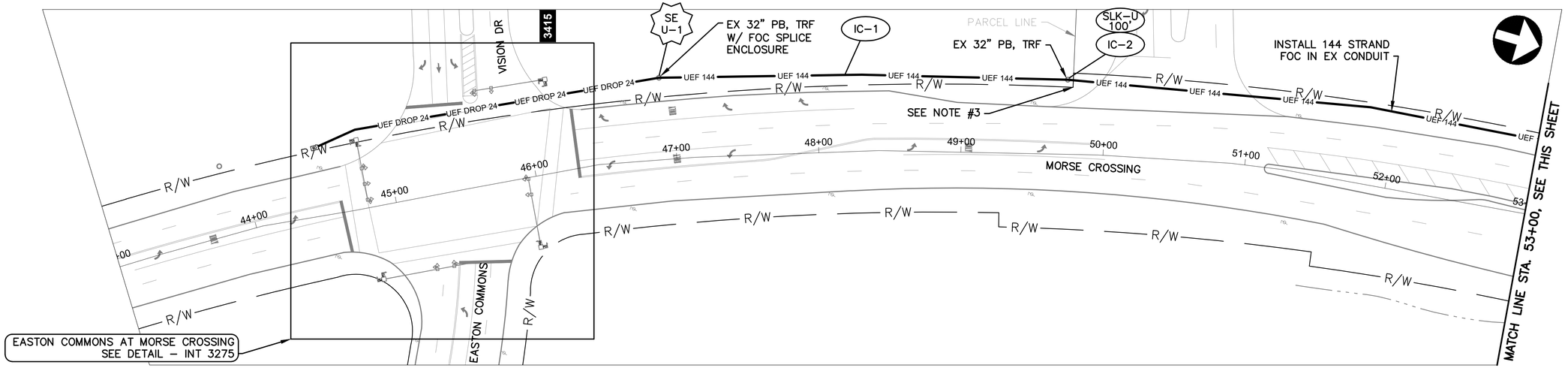
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PID NUMBER: 99733

EASTON WAY BETWEEN STA. 52+00 & 77+45
INTS 3229, 3230

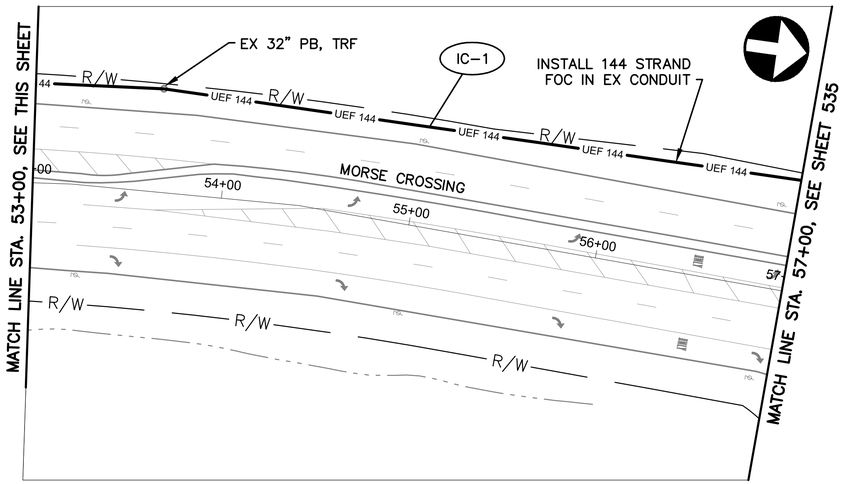
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

541
915

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MORSE CROSSING BETWEEN STATION 43+00 AND 53+00



MORSE CROSSING BETWEEN STATION 53+00 AND 57+00

DETAIL - INT 3275

0 20 40
HORIZONTAL SCALE IN FEET

NOTES:

1. SEE SHEET 547 FOR QUANTITIES.
2. SEE SHEETS 624 & 773 FOR COMMUNICATION DETAILS.
3. SIGNAL AGREEMENT CT–01220R IN PLACE BETWEEN CITY OF COLUMBUS AND THE OWNER OF GEORGETOWN/CHASE PHASE II, LLC FOR MAINTENANCE OF TRAFFIC SIGNAL AT INT 3275.

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CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 315 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

3378-E

0 40 80
HORIZONTAL SCALE IN FEET

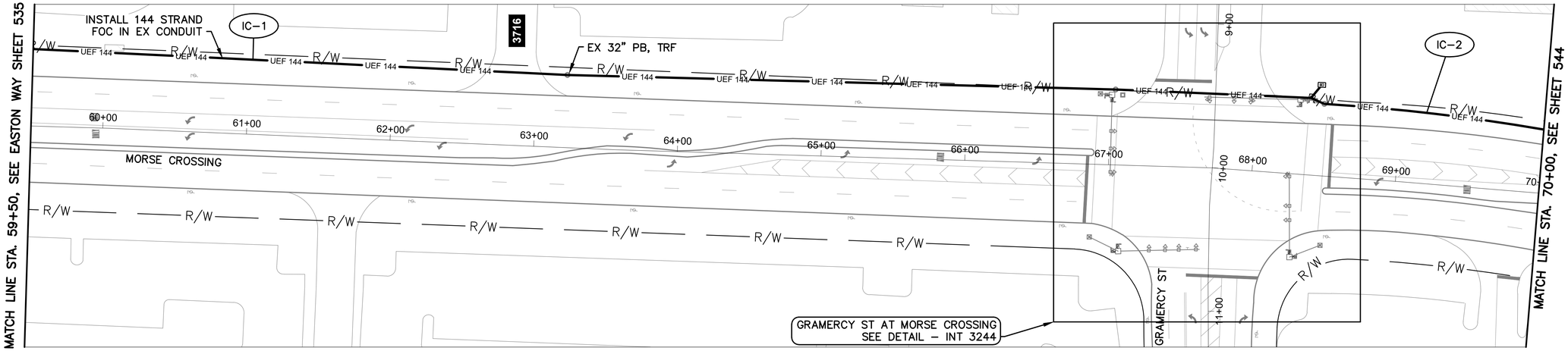
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PID NUMBER: 99733

INTERCONNECT PLAN
MORSE CROSSING BETWEEN STA. 43+00 AND 57+00, INT 3275

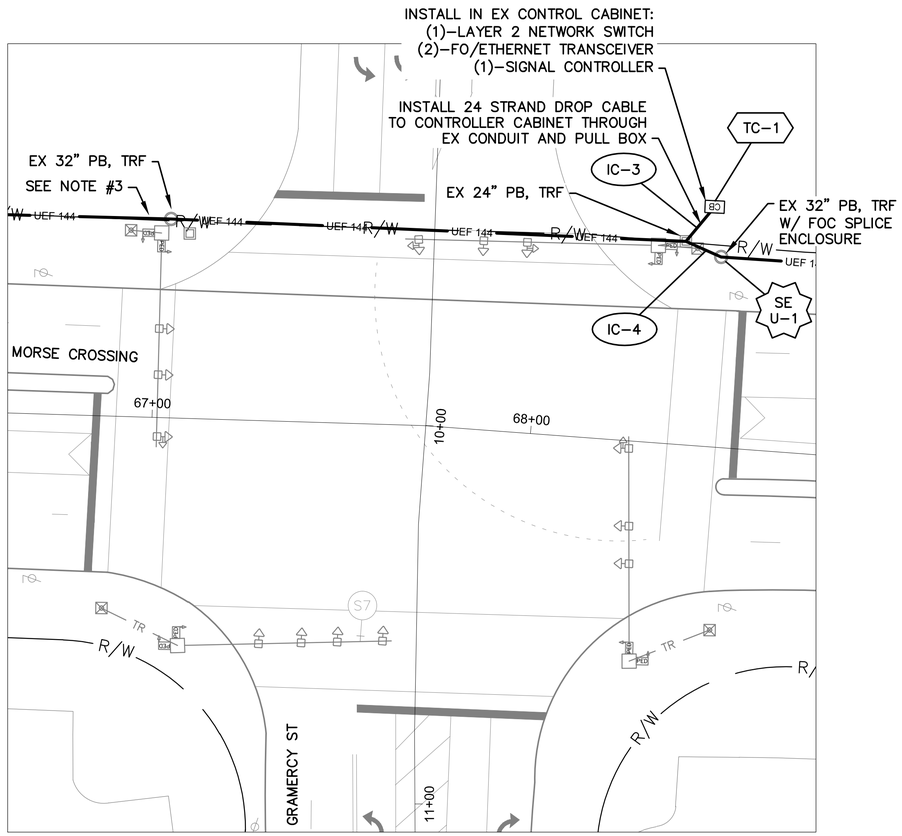
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

542
915

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MORSE CROSSING BETWEEN STATION 59+50 AND 70+00



DETAIL - INT 3244

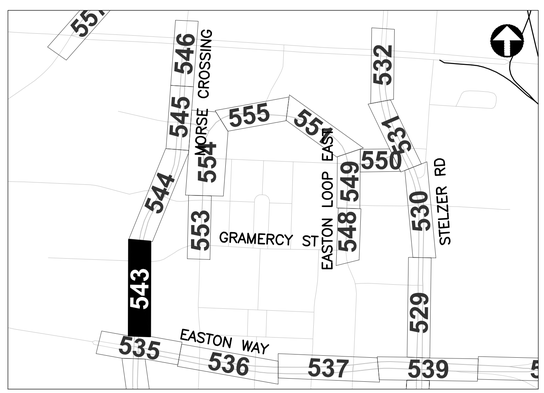
0 20 40
HORIZONTAL SCALE IN FEET

NOTES:

1. SEE SHEET 547 FOR QUANTITIES.
2. SEE SHEETS 624 & 788 FOR COMMUNICATION DETAILS.
3. SIGNAL AGREEMENT CT-01002R IN PLACE BETWEEN CITY OF COLUMBUS AND THE OWNER OF THE REAL PROPERTY, EASTON MARKET FOR MAINTENANCE OF TRAFFIC SIGNAL AT INT 3244.

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CITY OF COLUMBUS UTILITY LEGEND
- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 315 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

3378-E

0 40 80
HORIZONTAL SCALE IN FEET

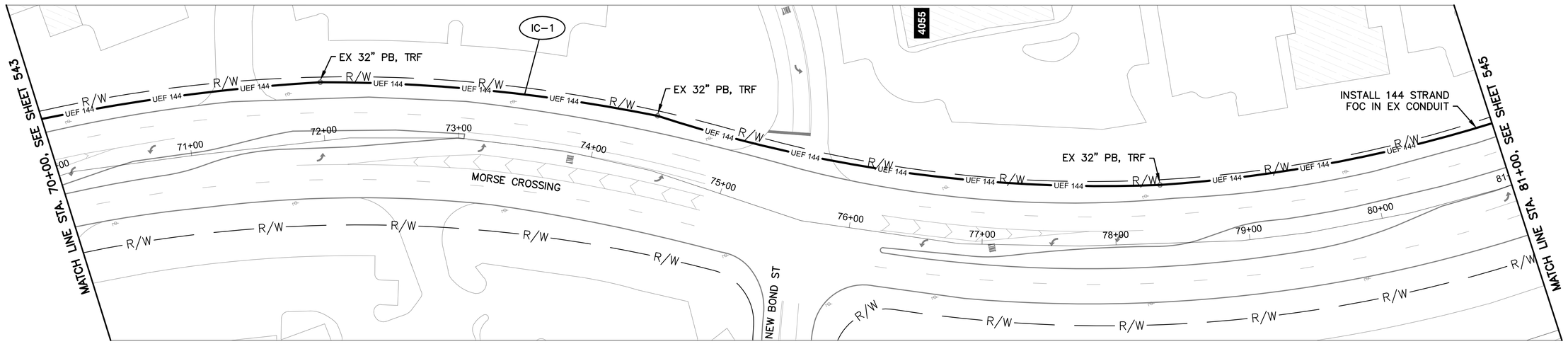
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PID NUMBER: 99733

INTERCONNECT PLAN
MORSE CROSSING BETWEEN STA. 59+50 AND 70+00, INT 3244

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E - FINAL SUBMITTAL

543
915

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MORSE CROSSING BETWEEN STATION 70+00 AND 81+00

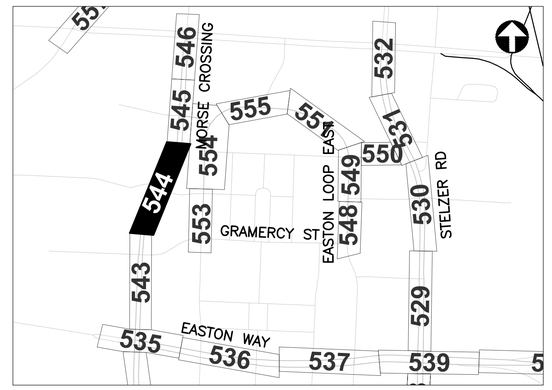
NOTES:

1. SEE SHEET 547 FOR QUANTITIES.
2. SEE SHEET 624 FOR COMMUNICATION DETAILS.

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CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 315 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

HORIZONTAL SCALE IN FEET
0 40 80

CIP: 540007-100012
PID NUMBER: 99733

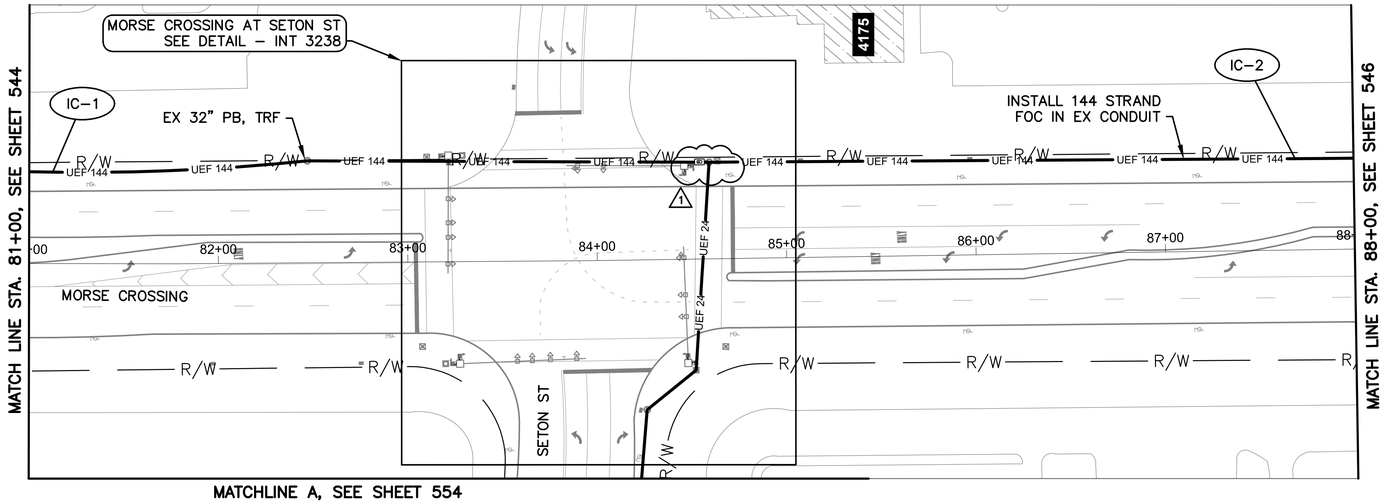
INTERCONNECT PLAN
MORSE CROSSING BETWEEN STA. 70+00 AND 81+00

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

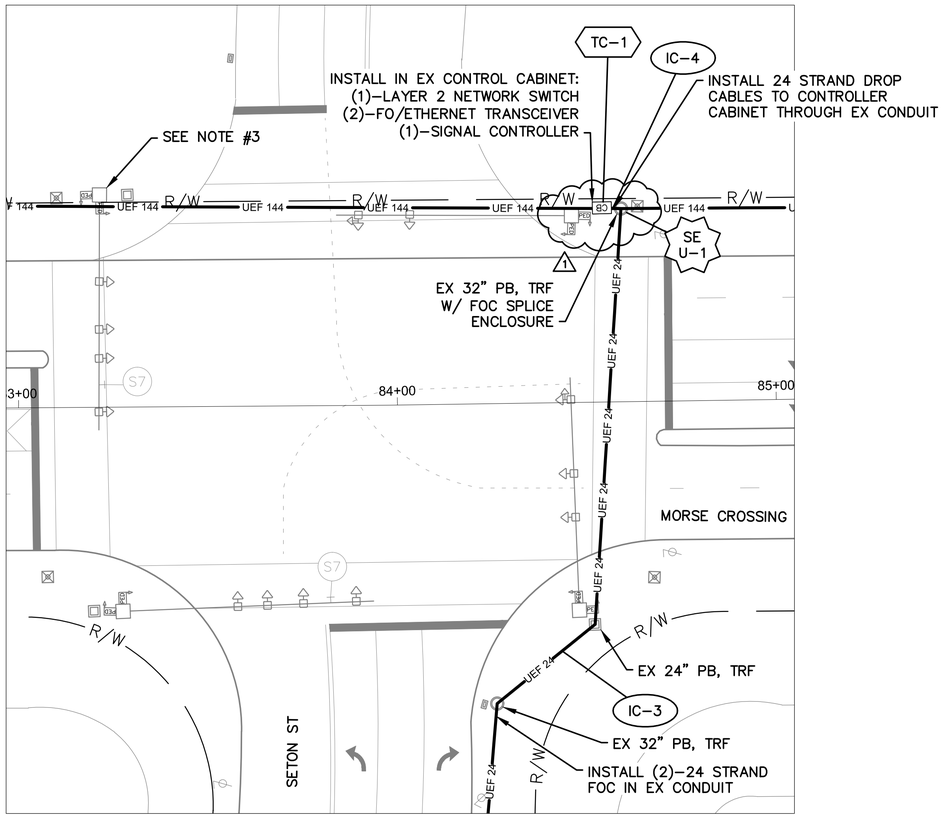
544
915

3378-E

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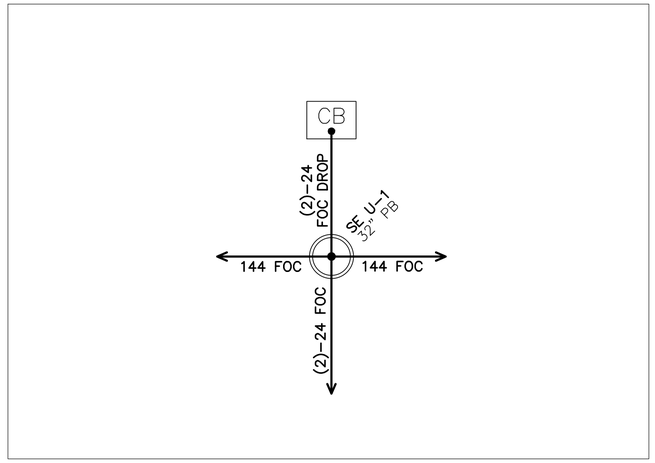


MORSE CROSSING BETWEEN STATION 81+00 AND 88+00



DETAIL - INT 3238

0 20 40
HORIZONTAL
SCALE IN FEET



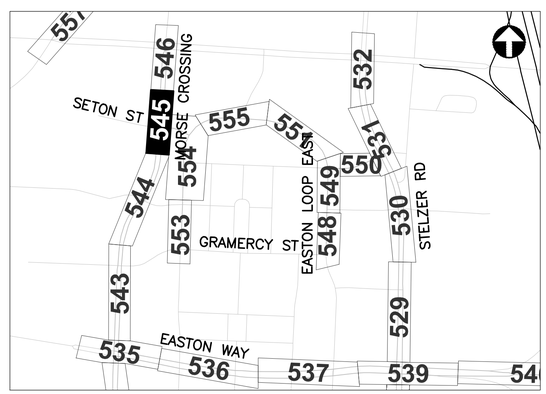
CABLE SCHEMATIC - INT 3238
NOT TO SCALE

NOTES:

1. SEE SHEET 547 FOR QUANTITIES.
2. SEE SHEETS 624 & 789 FOR COMMUNICATION DETAILS.
3. SIGNAL MAINTENANCE AGREEMENT CT–00986R IN PLACE BETWEEN CITY OF COLUMBUS AND LOWE'S HOME CENTERS FOR MAINTENANCE OF TRAFFIC SIGNAL AT INT 3238.

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- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 315 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

1 REVISION 1.0
11–02–2018

3378-E

0 40 80
HORIZONTAL
SCALE IN FEET

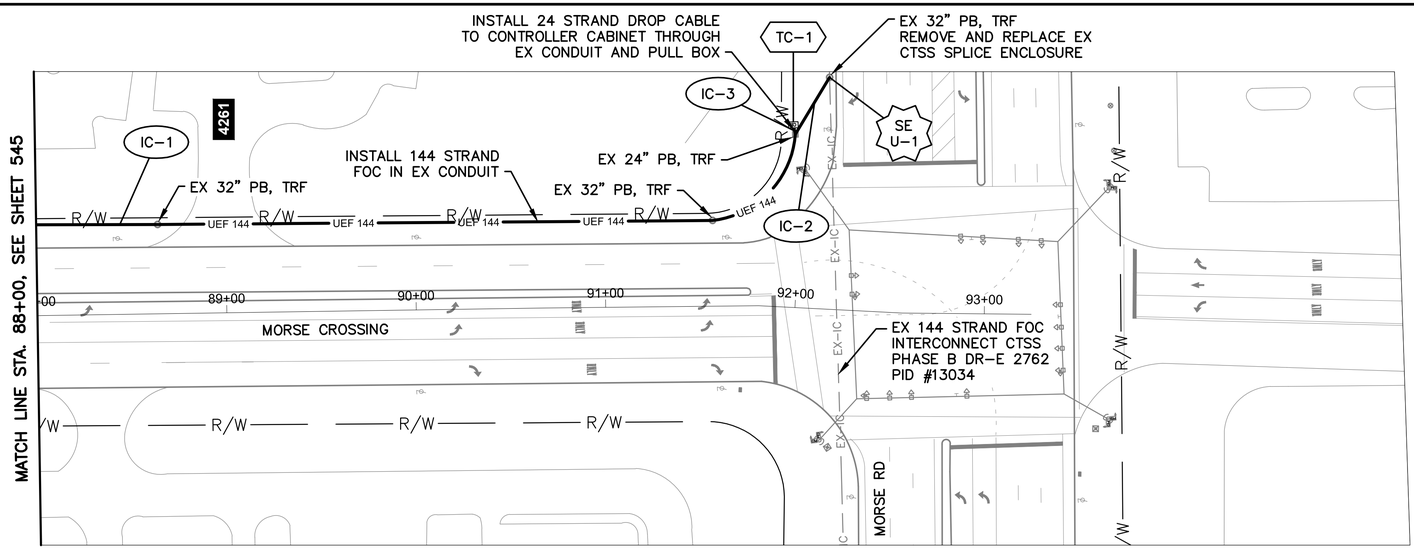
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PID NUMBER: 99733

INTERCONNECT PLAN
MORSE CROSSING BETWEEN STA. 81+00 AND 88+00, INT 3238

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

545
915

J:\Jobs\63721 CTSS Phase E\TECHPROD\Sheets\CTSS_PhE_Trunk4_MORSE_CROSSING_INTERCONNECT.dwg – MORSE CROSSING–3 layout ~ last saved by: jbeans 11/06/2018 10:07am ~ printed 11/06/2018 02:42pm PSLTS: 1 LTS: 1 CAS: 1:1



MORSE CROSSING BETWEEN STATION 88+00 AND 93+25

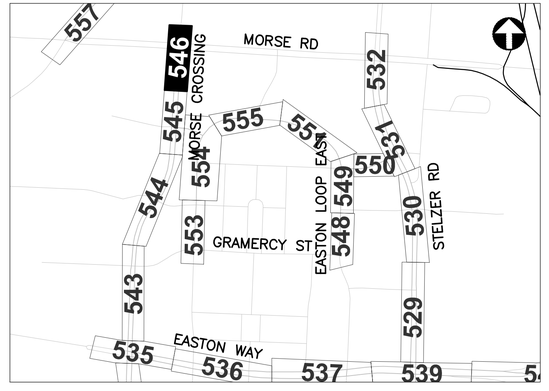
NOTES:

1. SEE SHEET 547 FOR QUANTITIES.
2. SEE SHEETS 624 & 790 FOR COMMUNICATION DETAILS.

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CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 315 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

HORIZONTAL SCALE IN FEET
0 40 80

CIP: 540007-100012
PID NUMBER: 99733

INTERCONNECT PLAN
MORSE CROSSING BETWEEN STA. 88+00 AND 93+25

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

546
915

3378-E

J:\Jobs\63721 ctss phase e\TECHPROD\Sheets\CTSS_PhE_Trunk4_MORSE_CROSSING_INTERCONNECT.dwg ~ MORSE CROSSING-4 layout ~ last saved by: gburch 09/07/2018 12:26pm ~ printed 09/12/2018 05:41am PSLTS: 1 LTS: 1 CAS: 1:1

ESTIMATED QUANTITIES

SHEET NO.	REFERENCE NO.	LOCATION	STATION		202	632	632	632	632	632	632	633	633	633										
					EXISTING CONDUIT CLEANED, AS PER PLAN	INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 144 STRAND	INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 24 STRAND	INTERCONNECT CABLE, MISC.: FIBER OPTIC DROP CABLE, 24 STRAND	INTERCONNECT CABLE, MISC.: FIBER OPTIC FUSION SPLICE	INTERCONNECT CABLE, MISC.: TERMINATION PANEL, 24 FIBER	INTERCONNECT, MISC.: SPLICE ENCLOSURE, CLAMSHELL, 288 SPLICE	CONTROLLER ITEM, MISC.: FIBER OPTIC ETHERNET TRANSCEIVER, SHORT RANGE	CONTROLLER ITEM, MISC.: LAYER 2 ETHERNET SWITCH	CONTROLLER UNIT, TYPE TS2/A2, AS PER PLAN									
			FROM	TO	FT	FT	FT	FT	EACH	EACH	EACH	EACH	EACH	EACH										
MORSE CROSSING BETWEEN STA. 43+00 AND 57+00, INT 3275																								
542	TC-1	MORSE CROSSING	44+50, 49' LT					10		1		2	1	1										
542	IC-3	MORSE CROSSING	44+50, 49' LT	46+92, 58' LT	248			248																
542	SE U-1	MORSE CROSSING	46+92, 58' LT			75		125	12		1													
542	IC-1	MORSE CROSSING	46+92, 58' LT	57+00, 59' LT	1,022	1,022																		
542	IC-2	MORSE CROSSING	49+74, 52' LT			100																		
MORSE CROSSING BETWEEN STA. 59+50 AND 70+00, INT 3244																								
543	IC-1	MORSE CROSSING	59+50, 49' LT	68+46, 50' LT	899	899																		
543	IC-3	MORSE CROSSING	68+37, 54' LT	68+44, 63' LT	12		12																	
543	IC-4	MORSE CROSSING	68+37, 54' LT	68+46, 50' LT			10																	
543	TC-1	MORSE CROSSING	68+44, 63' LT					10		1		2	1	1										
543	SE U-1	MORSE CROSSING	68+46, 50' LT			150		125	24		1													
543	IC-2	MORSE CROSSING	68+46, 50' LT	70+00, 44' LT	154	154																		
MORSE CROSSING BETWEEN STA. 70+00 AND 81+00																								
544	IC-1	MORSE CROSSING	70+00, 44' LT	81+00, 48' LT	1,095	1,095																		
MORSE CROSSING BETWEEN STA. 81+00 AND 88+00, INT 3238																								
545	IC-1	MORSE CROSSING	81+00, 48' LT	84+59, 54' LT	359	359																		
545	IC-3	MORSE CROSSING	84+21, 115' RT	84+59, 54' LT	182		364																	
545	TC-1	MORSE CROSSING	84+54, 59' LT					20		2		2	1	1										
545	IC-4	MORSE CROSSING	84+54, 59' LT	84+59, 54' LT	7			14																
545	SE U-1	MORSE CROSSING	84+59, 54' LT			150	150	250	48		1													
545	IC-2	MORSE CROSSING	84+59, 54' LT	88+00, 50' LT	340	340																		
MORSE CROSSING BETWEEN STA. 88+00 AND 93+25, INT 3237																								
546	IC-1	MORSE CROSSING	88+00, 50' LT	92+12, 122' LT	460	460																		
546	TC-1	MORSE CROSSING	91+94, 96' LT					10		1														
546	IC-3	MORSE CROSSING	91+94, 96' LT	91+95, 91' LT	5		5																	
546	IC-2	MORSE CROSSING	91+95, 91' LT	92+12, 122' LT	35		35																	
546	SE U-1	MORSE CROSSING	92+12, 122' LT			75		125	204		1													
SHEET TOTAL					4,818	4,879	576	937	288	5	4	6	3	3	-	-	-	-	-	-	-	-	-	-

AERIAL SAG: 1.5% AERIAL SAG IS INCLUDED IN THE QUANTITIES FOR ANY AERIAL FIBER OR CABLE ITEMS.

3378-E

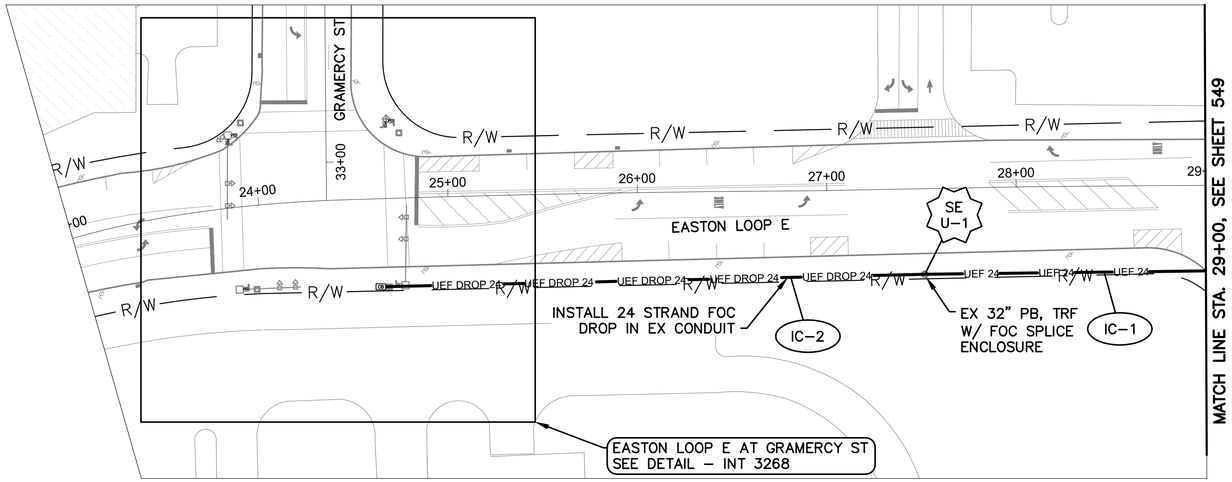
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PID NUMBER: 99733

MORSE CROSSING BETWEEN STA. 43+00 & 93+25
INTS 3275, 3244, 3238, 3237

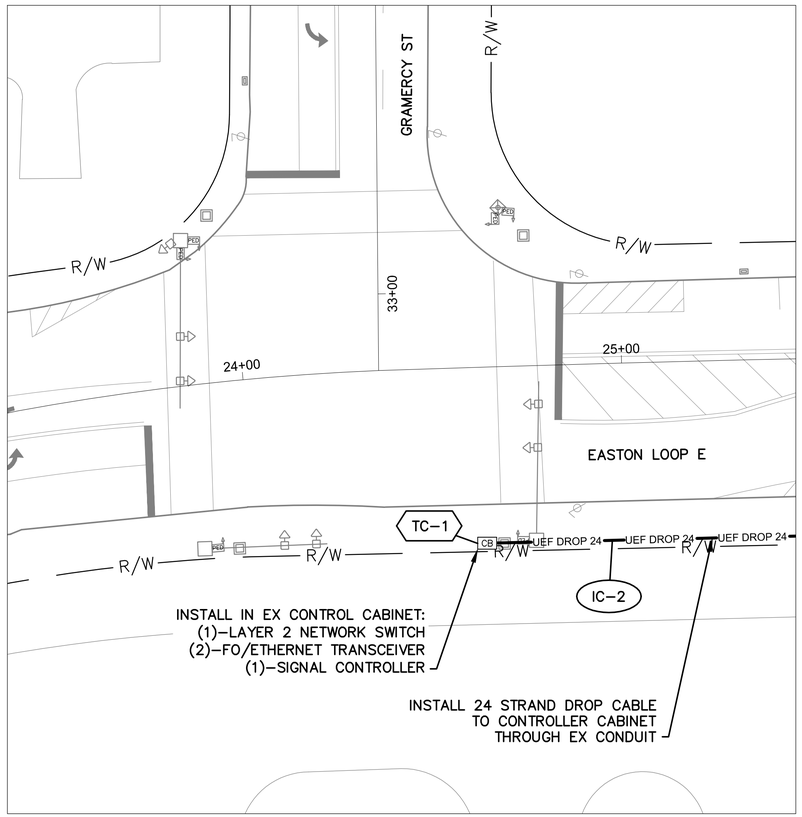
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

547
915

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EASTON LOOP E BETWEEN STATION 23+00 AND 29+00



DETAIL - INT 3268

0 20 40

HORIZONTAL
SCALE IN FEET

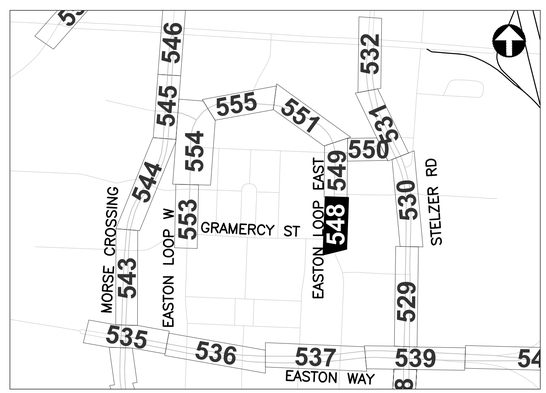
NOTES:

1. SEE SHEET 552 FOR QUANTITIES.
2. SEE SHEETS 624 & 786 FOR COMMUNICATION DETAILS.

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CITY OF COLUMBUS
UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 315 FOR
INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

0 40 80

HORIZONTAL
SCALE IN FEET

CIP: 540007-100012
PID NUMBER: 99733

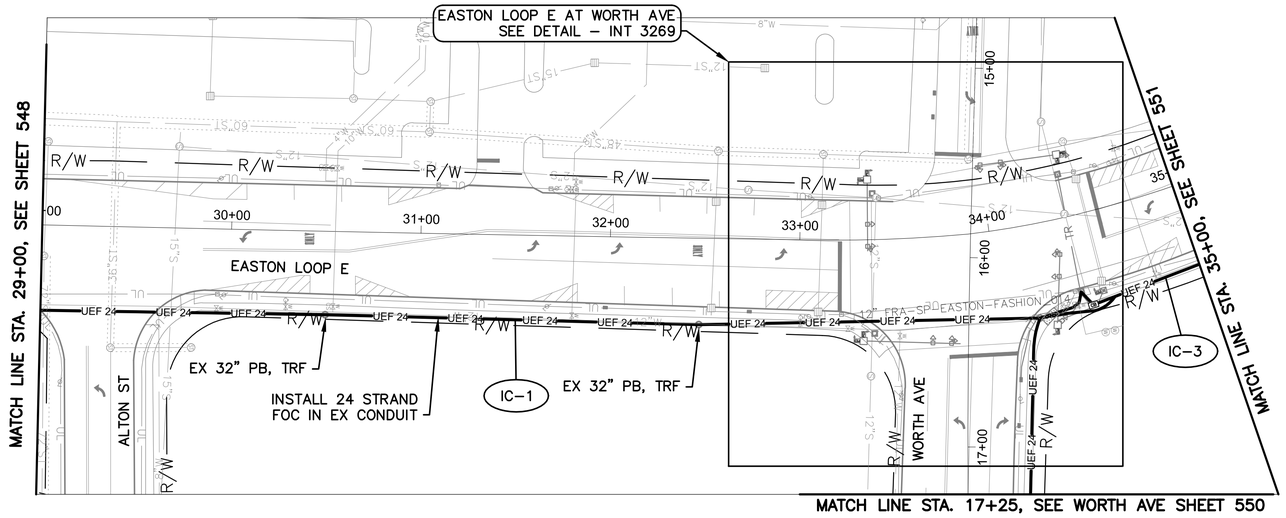
INTERCONNECT PLAN
EASTON LOOP E BETWEEN STA. 23+00 AND 29+00, INT 3268

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E - FINAL SUBMITTAL

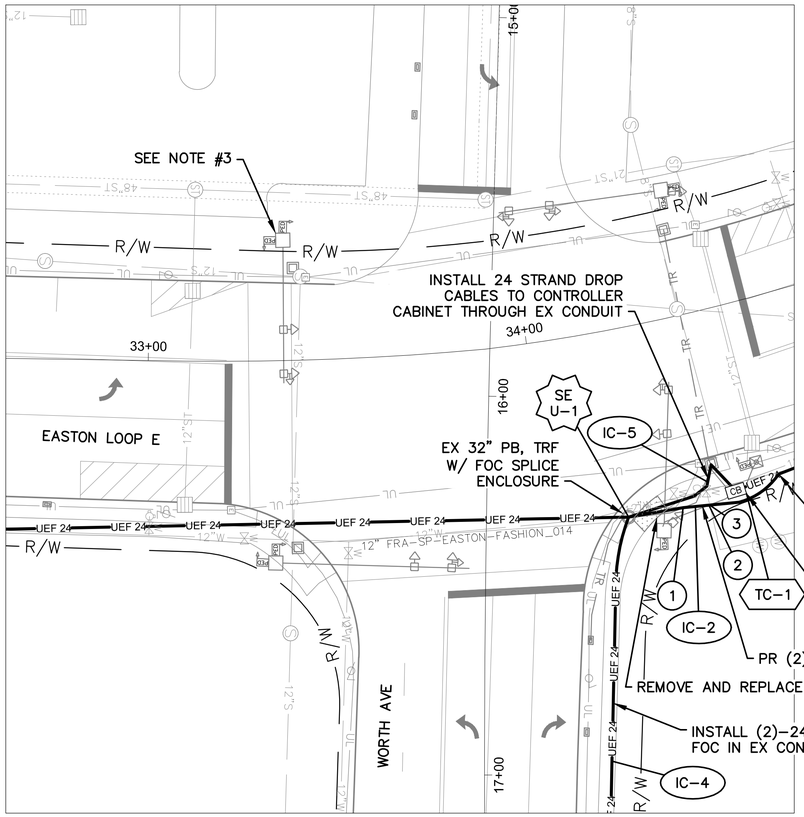
548
915

3378-E

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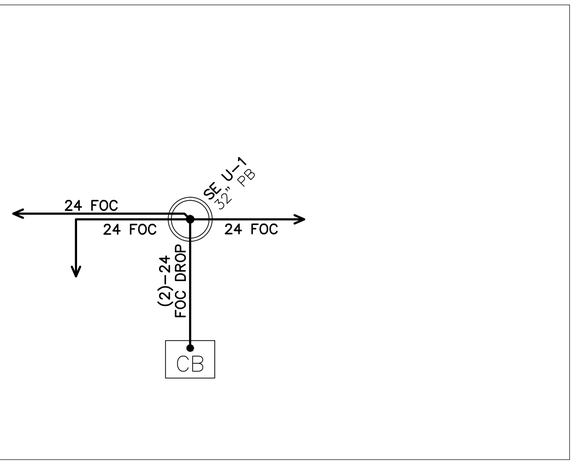


EASTON LOOP E BETWEEN STATION 29+00 AND 35+00



DETAIL - INT 3269

0 20 40
HORIZONTAL
SCALE IN FEET



CABLE SCHEMATIC - INT 3269

NOT TO SCALE

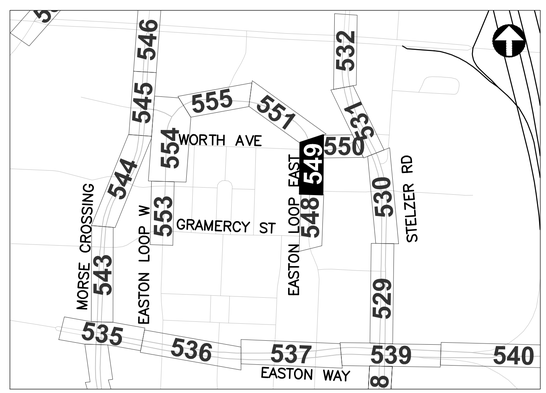
NOTES:

1. SEE SHEET 552 FOR QUANTITIES.
2. SEE SHEETS 624 & 785 FOR COMMUNICATION DETAILS.
3. SIGNAL MAINTENANCE AGREEMENT CT–01066R IN PLACE BETWEEN CITY OF COLUMBUS AND EASTON TOWN CENTER FOR MAINTENANCE OF TRAFFIC SIGNAL AT INT 3269.

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CITY OF COLUMBUS UTILITY LEGEND

☒	SEWER
☒	WATER
☐	POWER
☐	LIGHTING



REFER TO SHEET 315 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

HORIZONTAL SCALE IN FEET
0 40 80

CIP: 540007–100012
PID NUMBER: 99733

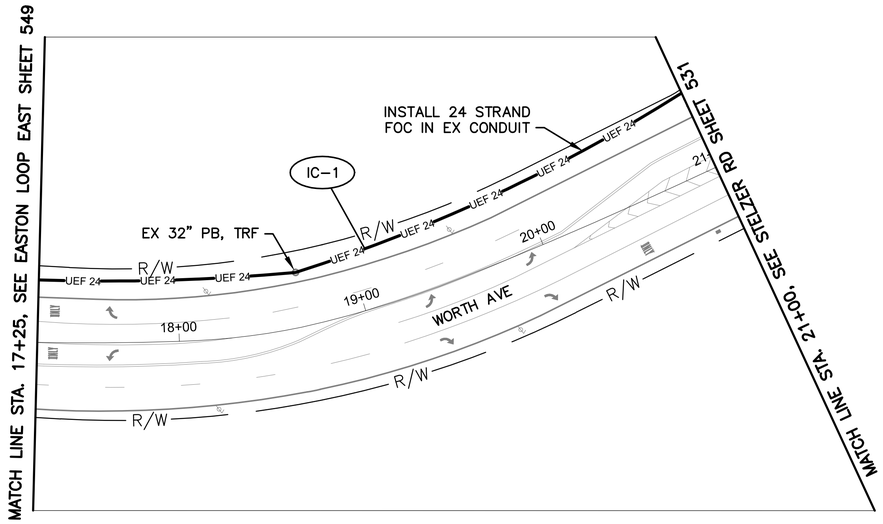
INTERCONNECT PLAN
EASTON LOOP E BETWEEN STA. 29+00 AND 35+00, INT 3269

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

549
915

3378-E

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WORTH AVE BETWEEN STATION 17+25 AND 21+00

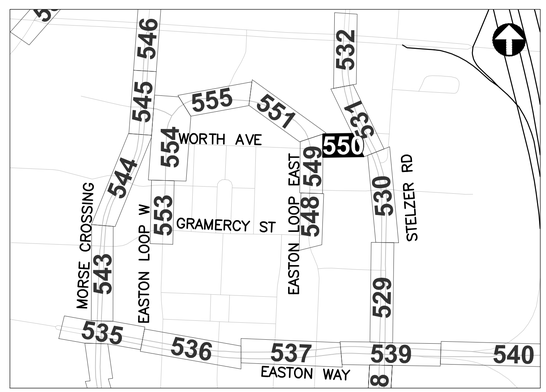
NOTES:

1. SEE SHEET 552 FOR QUANTITIES.
2. SEE SHEET 624 FOR COMMUNICATION DETAILS.

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CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 315 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

HORIZONTAL SCALE IN FEET
0 40 80

CIP: 540007-100012
PID NUMBER: 99733

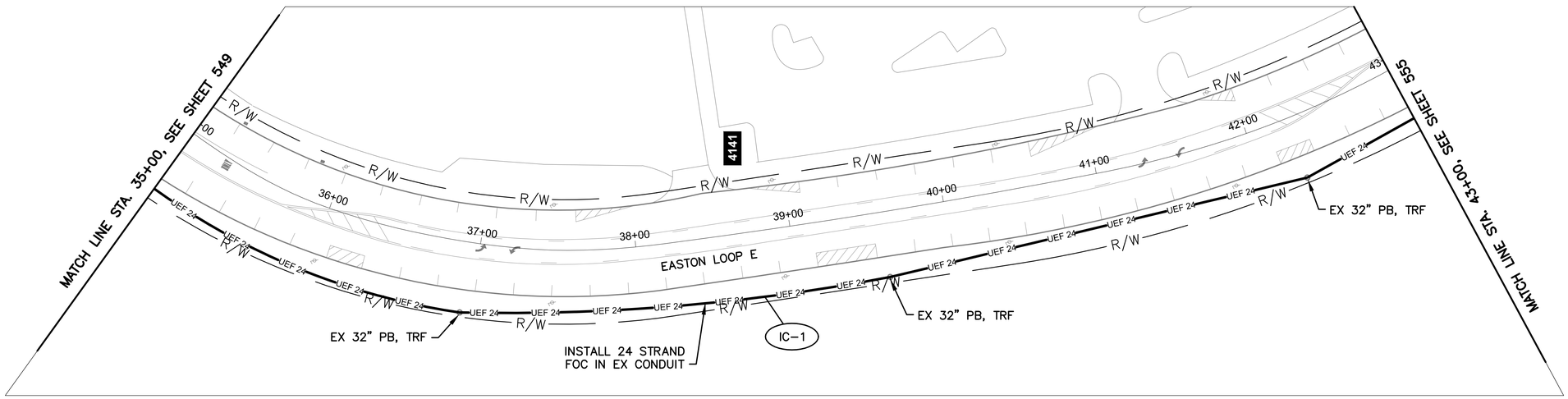
INTERCONNECT PLAN
WORTH AVE BETWEEN STA. 17+25 AND 21+00

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

550
915

3378-E

J:\Jobs\63721 ctss phase e\TECHPROD\Sheets\CTSS_PhE_Trunk4_EASTON_LOOP_INTERCONNECT.dwg ~ WORTH-1 layout ~ last saved by: gburch 09/07/2018 12:27pm ~ printed 09/12/2018 05:49am PSLTS: 1 LTS: 1 CAS: 1:1



EASTON LOOP E BETWEEN STATION 35+00 AND 43+00

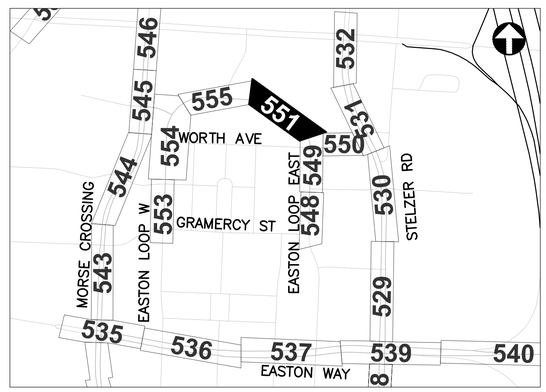
NOTES:

1. SEE SHEET 552 FOR QUANTITIES.
2. SEE SHEET 624 FOR COMMUNICATION DETAILS.

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CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 315 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

3378-E

HORIZONTAL SCALE IN FEET
0 40 80

CIP: 540007-100012
PID NUMBER: 99733

INTERCONNECT PLAN
EASTON LOOP E BETWEEN STA. 35+00 AND 43+00

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

551
915

j:\jobs\63721 ctss phase e\TECHPROD\Sheets\CTSS_PhE_Trunk4_EASTON_LOOP_INTERCONNECT.dwg – EASTON-LOOP-4 layout ~ last saved by: gburch 09/07/2018 12:27pm ~ printed 09/12/2018 05:51am PSLTS: 1 LTS: 1 CAS: 1:1

ESTIMATED QUANTITIES

SHEET NO.	REFERENCE NO.	LOCATION	STATION		202	202	608	625	625	625	632	632	632	632	632	633	633	633						
					EXISTING CONDUIT CLEANED, AS PER PLAN	WALK REMOVED	8" CONCRETE WALK	CONDUIT, CONCRETE ENCASED, 2-3", 725.05, AS PER PLAN	PULL BOX, 18", 725.06, AS PER PLAN	TRENCH, 36" DEEP, AS PER PLAN	INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 24 STRAND	INTERCONNECT CABLE, MISC.: FIBER OPTIC DROP CABLE, 24 STRAND	INTERCONNECT CABLE, MISC.: FIBER OPTIC FUSION SPLICE	INTERCONNECT CABLE, MISC.: TERMINATION PANEL, 24 FIBER	INTERCONNECT, MISC.: SPLICE ENCLOSURE, CLAMSHELL, 288 SPLICE	CONTROLLER ITEM, MISC.: FIBER OPTIC ETHERNET TRANSCEIVER, SHORT RANGE	CONTROLLER ITEM, MISC.: LAYER 2 ETHERNET SWITCH	CONTROLLER UNIT, TYPE TS2/A2, AS PER PLAN						
			FROM	TO	FT	SF	SF	FT	EACH	FT	FT	FT	EACH	EACH	EACH	EACH	EACH	EACH	EACH						
EASTON LOOP E. BETWEEN STA. 23+00 AND 29+00, INT 3268																								
548	TC-1	EASTON LOOP EAST	24+63, 46' RT									10		1		2	1	1						
548	IC-2	EASTON LOOP EAST	24+63, 46' RT	27+51, 45' RT	287							287												
548	SE U-1	EASTON LOOP EAST	27+51, 45' RT								75	125	12		1									
548	IC-1	EASTON LOOP EAST	27+51, 45' RT	29+00, 45' RT	148						148													
EASTON LOOP E. BETWEEN STA. 29+00 AND 35+00, INT 3269																								
549	IC-1	EASTON LOOP EAST	29+00, 45' RT	34+14, 48' RT	527						527													
549	SE U-1	EASTON LOOP EAST	34+14, 48' RT								225	250	36		1									
549	IC-2	EASTON LOOP EAST	34+14, 48' RT	34+56, 48' RT		40	40	43	1	43	43													
549	IC-5	EASTON LOOP EAST	34+14, 48' RT	34+45, 49' RT	29							58												
549	TC-1	EASTON LOOP EAST	34+45, 49' RT									20		2		2	1	1						
549	IC-3	EASTON LOOP EAST	34+56, 48' RT	35+00, 44' RT	48						48													
549	IC-4	WORTH AVE	16+30, 37' LT	17+25, 33' LT	95						95													
WORTH AVE. BETWEEN STA. 17+25 AND 21+00																								
550	IC-1	WORTH AVE	17+25, 33' LT	21+00, 38' LT	360						360													
EASTON LOOP E. BETWEEN STA. 35+00 AND 43+00																								
551	IC-1	EASTON LOOP EAST	35+00, 44' RT	43+00, 35' RT	847						847													
SHEET TOTAL					2,341	40	40	43	1	43	2,368	750	48	3	2	4	2	2	-	-	-	-	-	-

AERIAL SAG: 1.5% AERIAL SAG IS INCLUDED IN THE QUANTITIES FOR ANY AERIAL FIBER OR CABLE ITEMS.

3378-E

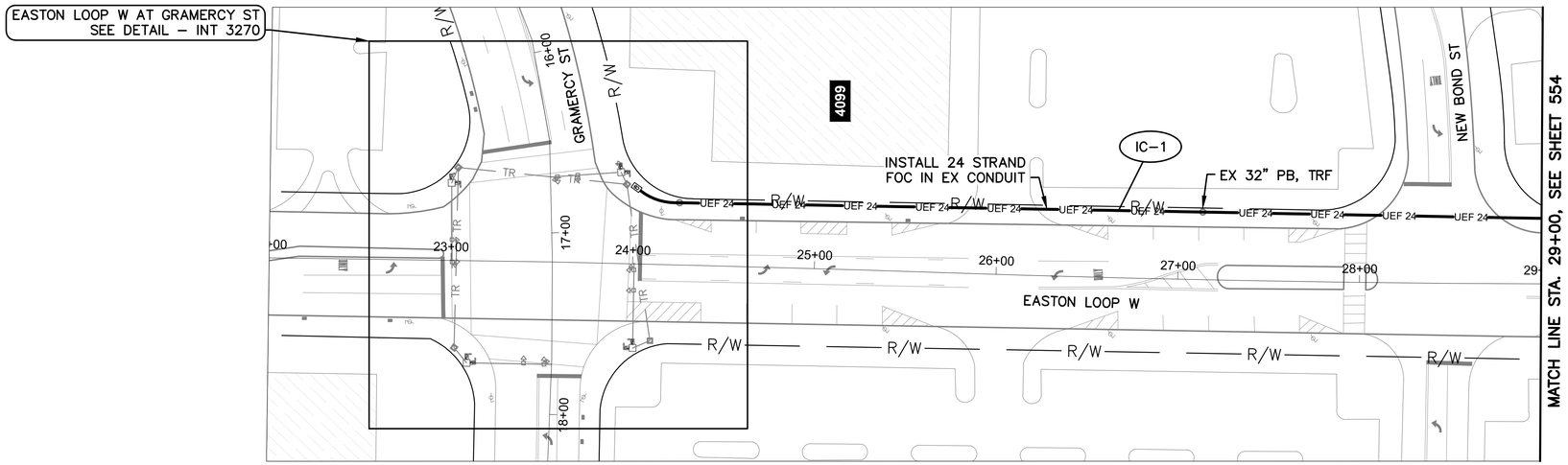
CIP: 540007-100012
PID NUMBER: 99733

EASTON LOOP EAST BETWEEN STA. 23+00 & 43+00
WORTH AVE BETWEEN STA. 17+25 & 21+00, INTS 3268, 3269

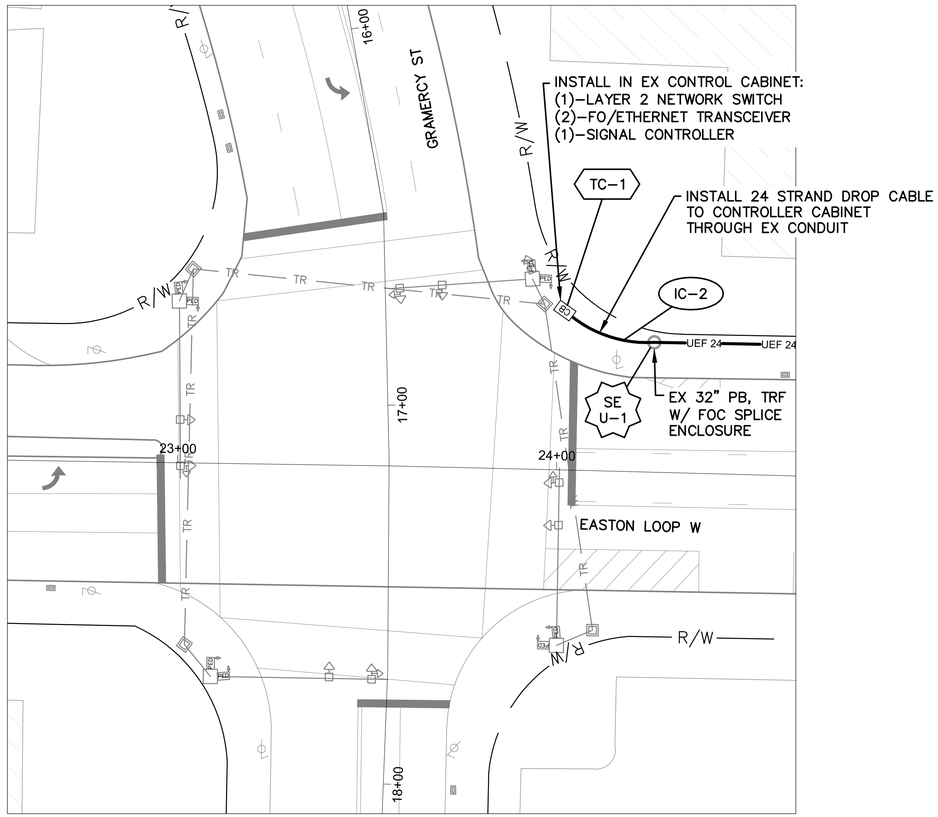
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

552
915

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EASTON LOOP W BETWEEN STATION 22+00 AND 29+00



DETAIL - INT 3270

0 20 40
HORIZONTAL
SCALE IN FEET

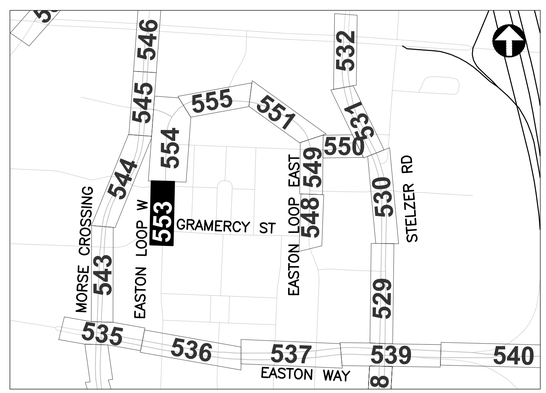
NOTES:

1. SEE SHEET 556 FOR QUANTITIES.
2. SEE SHEETS 624 & 787 FOR COMMUNICATION DETAILS.

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CITY OF COLUMBUS
UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 315 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

0 80 40
HORIZONTAL
SCALE IN FEET

CIP: 540007–100012
PID NUMBER: 99733

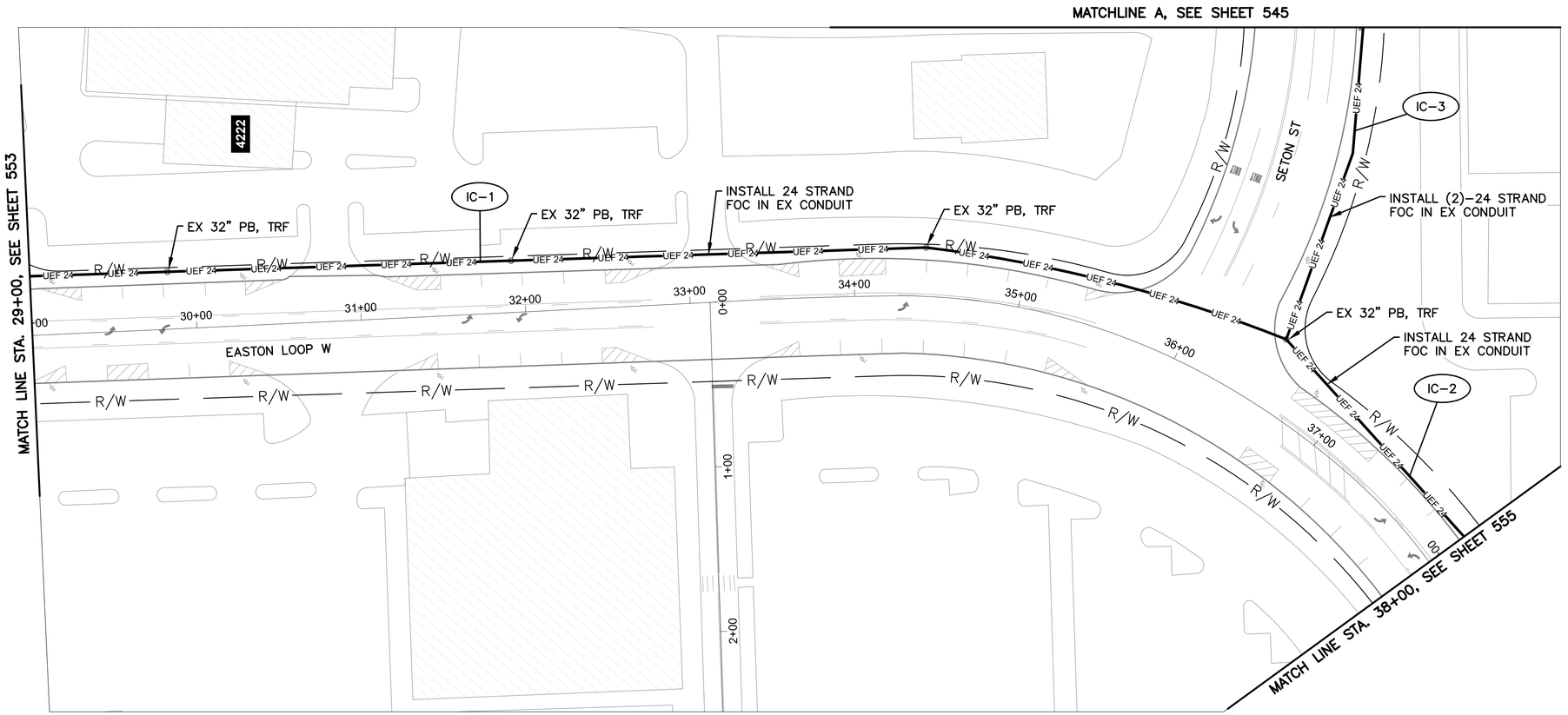
INTERCONNECT PLAN
EASTON LOOP W BETWEEN STA. 22+00 AND 29+00, INT 3270

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

553
915

3378-E

J:\Jobs\163721 CTSS Phase E\TECHPROD\Sheets\CTSS_PhE_Trunk4_EASTON_LOOP_W_INTERCONNECT.dwg – EASTON–LOOP–W–1 layout ~ last saved by gburch 09/13/2018 04:03pm ~ printed 09/13/2018 06:24pm PSLTS: 1 LTS: 1 CAS: 1:1



EASTON LOOP W BETWEEN STATION 29+00 AND 38+00

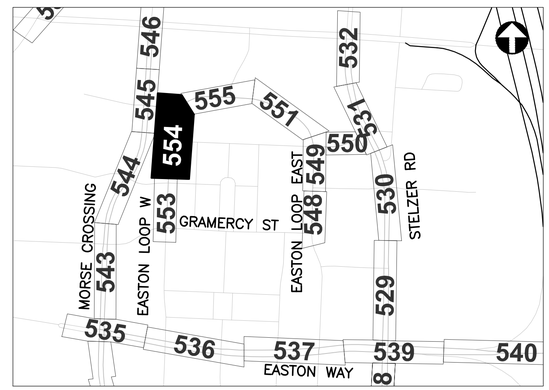
NOTES:

1. SEE SHEET 556 FOR QUANTITIES.
2. SEE SHEET 624 FOR COMMUNICATION DETAILS.

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CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 315 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

3378-E

HORIZONTAL SCALE IN FEET
0 40 80

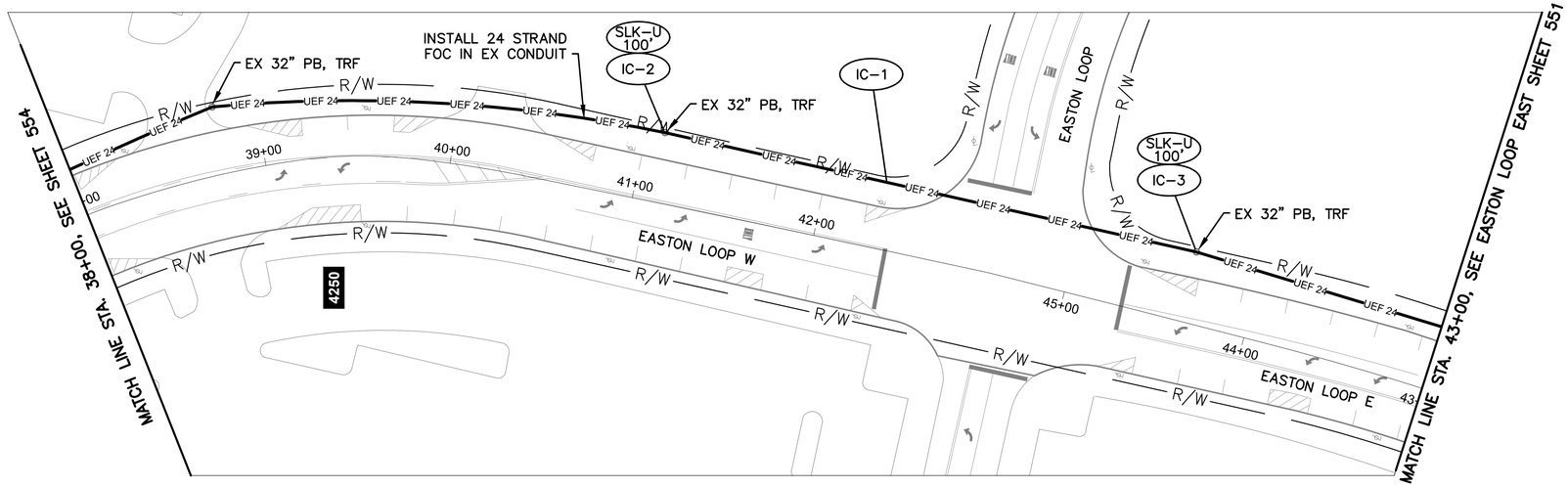
CIP: 540007-100012
PID NUMBER: 99733

INTERCONNECT PLAN
EASTON LOOP W BETWEEN STA. 29+00 AND 38+00

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

554
915

J:\Jobs\63721 ctss phase e\TECHPROD\Sheets\CTSS_PhE_Trunk4_EASTON_LOOP_W_INTERCONNECT.dwg – EASTON-LOOP-W-2 layout ~ last saved by: gburch 06/18/2018 08:29am ~ printed 09/12/2018 05:55pm PSLTS: 1 LTS: 1 CAS: 1:1



EASTON LOOP W BETWEEN STATION 38+00 AND EASTON LOOP E 43+00

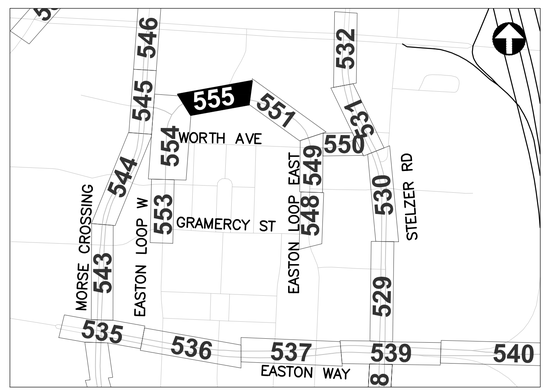
NOTES:

1. SEE SHEET 556 FOR QUANTITIES.
2. SEE SHEET 624 FOR COMMUNICATION DETAILS.

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CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 315 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

3378-E

HORIZONTAL SCALE IN FEET
0 40 80

CIP: 540007-100012
PID NUMBER: 99733

INTERCONNECT PLAN
EASTON LOOP W BETWEEN STA. 38+00 AND EASTON LOOP E 43+00

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

555
915

j:\jobs\63721 ctss phase e\TECHPROD\Sheets\CTSS_PhE_Trunk4_EASTON_LOOP_W_INTERCONNECT.dwg – EASTON_LOOP_W-3 layout ~ last saved by: gburch 06/18/2018 08:29am ~ printed 09/12/2018 05:57pm PSLTS: 1 LTS: 1 CAS: 1:1

ESTIMATED QUANTITIES

SHEET NO.	REFERENCE NO.	LOCATION	STATION		202	632	632	632	632	632	633	633	633												
					EXISTING CONDUIT CLEANED, AS PER PLAN	INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 24 STRAND	INTERCONNECT CABLE, MISC.: FIBER OPTIC DROP CABLE, 24 STRAND	INTERCONNECT CABLE, MISC.: FIBER OPTIC FUSION SPLICE	INTERCONNECT CABLE, MISC.: TERMINATION PANEL, 24 FIBER	INTERCONNECT, MISC.: SPLICE ENCLOSURE, CLAMSHELL, 288 SPLICE	CONTROLLER ITEM, MISC.: FIBER OPTIC ETHERNET TRANSCEIVER, SHORT RANGE	CONTROLLER ITEM, MISC.: LAYER 2 ETHERNET SWITCH	CONTROLLER UNIT, TYPE TS2/A2, AS PER PLAN										
			FROM	TO	FT	FT	FT	EACH	EACH	EACH	EACH	EACH	EACH											
EASTON LOOP W. BETWEEN STA. 22+00 AND 29+00, INT 3270																									
553	TC-1	EASTON LOOP WEST	24+01, 42' LT				10		1		2	1	1												
553	IC-2	EASTON LOOP WEST	24+01, 42' LT	24+24, 34' LT	26		26																		
553	SE U-1	EASTON LOOP WEST	24+24, 34' LT			75	125	12		1															
553	IC-1	EASTON LOOP WEST	24+24, 34' LT	29+00, 36' LT	474	474																			
EASTON LOOP W. BETWEEN STA. 29+00 AND 38+00																									
554	IC-1	EASTON LOOP WEST	29+00, 36' LT	36+51, 43' LT	771	771																			
554	IC-3	EASTON LOOP WEST	36+32, 161' LT	36+51, 43' LT	120	240																			
554	IC-2	EASTON LOOP WEST	36+51, 43' LT	38+00, 26' LT	161	161																			
EASTON LOOP W. BETWEEN STA. 38+00 AND 43+00																									
555	IC-1	EASTON LOOP WEST/EAST	38+00, 26' LT	43+00, 35' RT	762	762																			
555	IC-2	EASTON LOOP WEST	41+10, 38' LT			100																			
555	IC-3	EASTON LOOP EAST	44+36, 38' RT			100																			
SHEET TOTAL					2,314	2,683	161	12	1	1	2	1	1	-	-	-	-	-	-	-	-	-	-	-	-

AERIAL SAG: 1.5% AERIAL SAG IS INCLUDED IN THE QUANTITIES FOR ANY AERIAL FIBER OR CABLE ITEMS.

3378-E

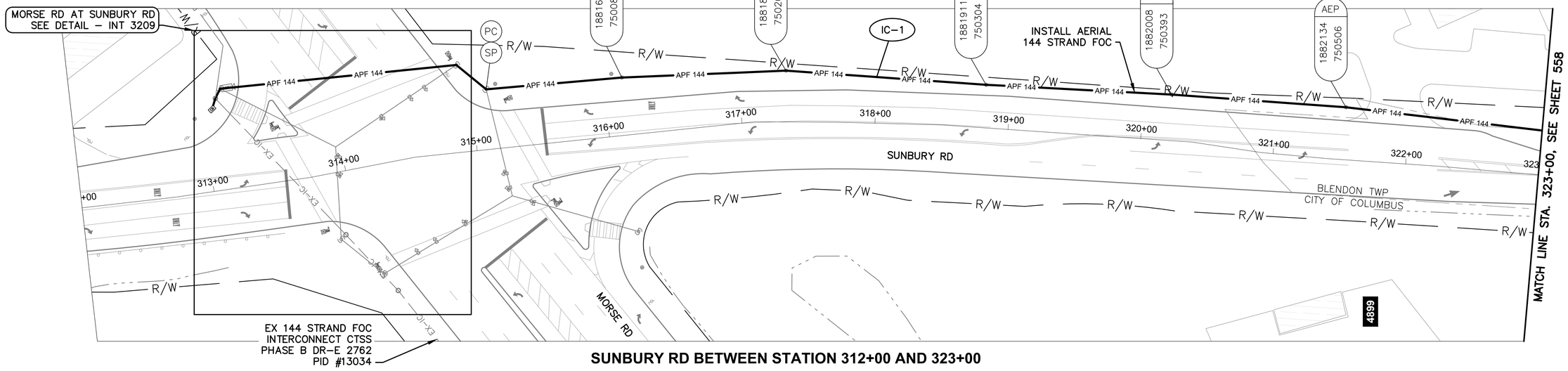
CIP: 540007-100012
PID NUMBER: 99733

EASTON LOOP WEST BETWEEN STA. 22+00 & 43+00
INT 3270

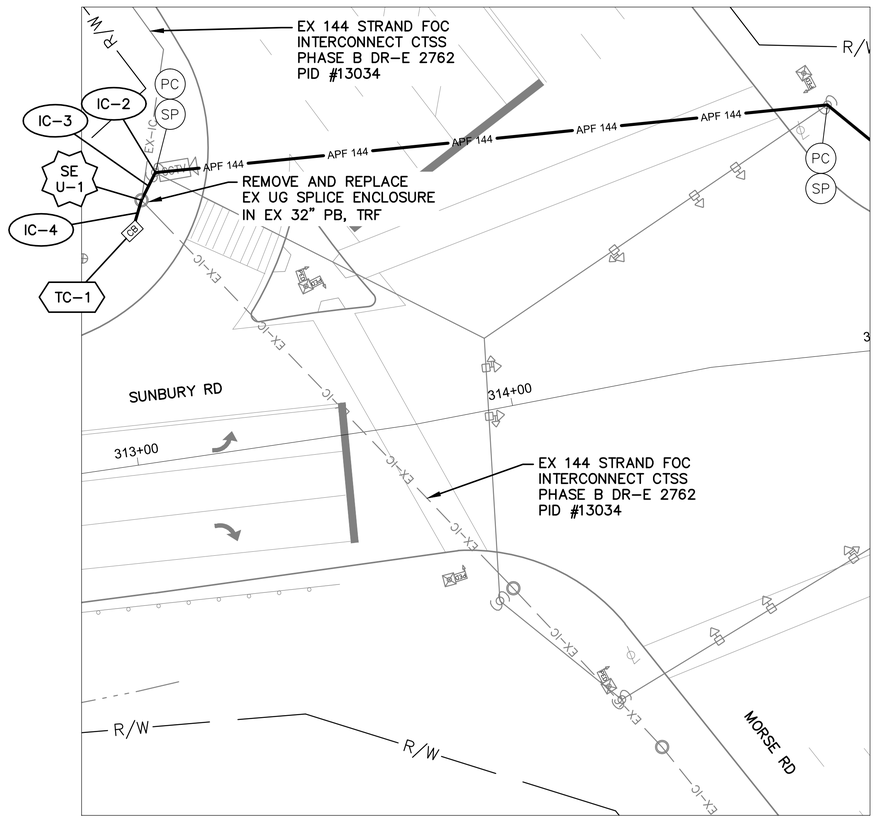
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

556
915

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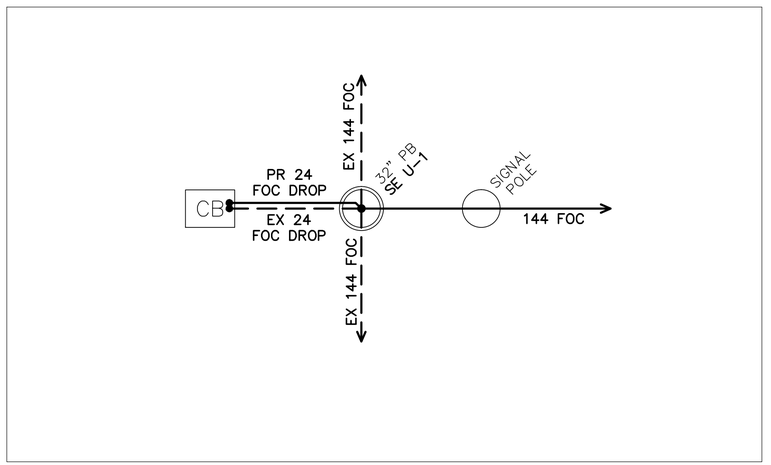


SUNBURY RD BETWEEN STATION 312+00 AND 323+00



DETAIL - INT 3209

0 20 40
HORIZONTAL
SCALE IN FEET



CABLE SCHEMATIC - INT 3209

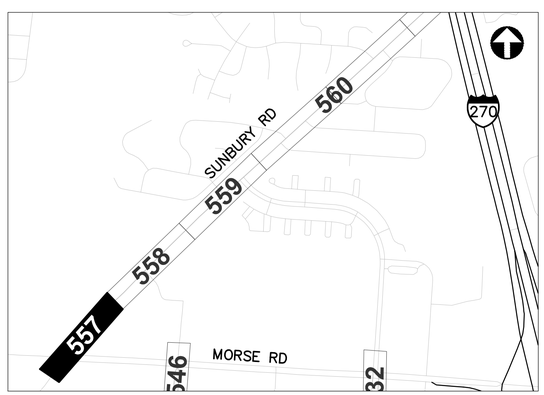
NOT TO SCALE

NOTES:

1. SEE SHEET 562 FOR QUANTITIES.
2. SEE SHEET 624 & 791 FOR COMMUNICATION DETAILS.

OHIO Utilities Protection SERVICE
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CITY OF COLUMBUS UTILITY LEGEND
- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 315 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

0 40 80
HORIZONTAL
SCALE IN FEET

CIP: 540007–100012
PID NUMBER: 99733

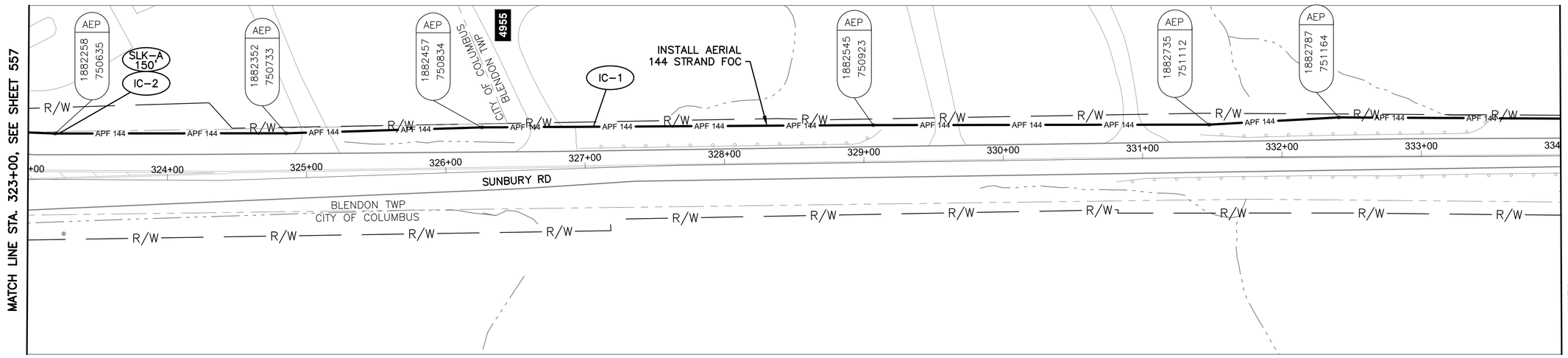
INTERCONNECT PLAN
SUNBURY RD BETWEEN STA. 312+00 AND 323+00, INT 3209

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

557
915

3378-E

J:\Jobs\63721 ctss phase e\TECHPROD\Sheets\CTSS_PhE_Trunk4_SUNBURY_INTERCONNECT.dwg – SUNBURY–1 layout ~ last saved by: rwegehaupt 08/29/2018 09:47am ~ printed 09/12/2018 06:00am PSLTS: 1 LTS: 1 CAS: 1:1



SUNBURY RD BETWEEN STATION 323+00 AND 334+00

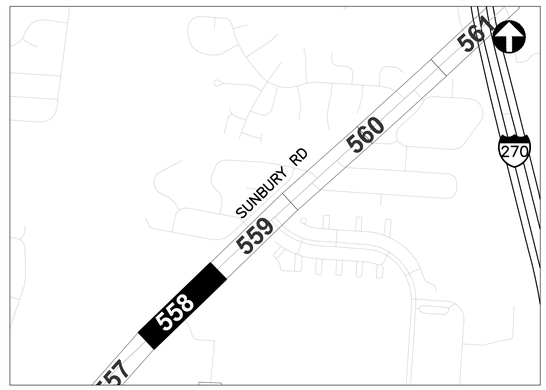
NOTES:

1. SEE SHEET 562 FOR QUANTITIES.
2. SEE SHEET 624 FOR COMMUNICATION DETAILS.

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CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 315 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

3378-E

HORIZONTAL SCALE IN FEET
0 40 80

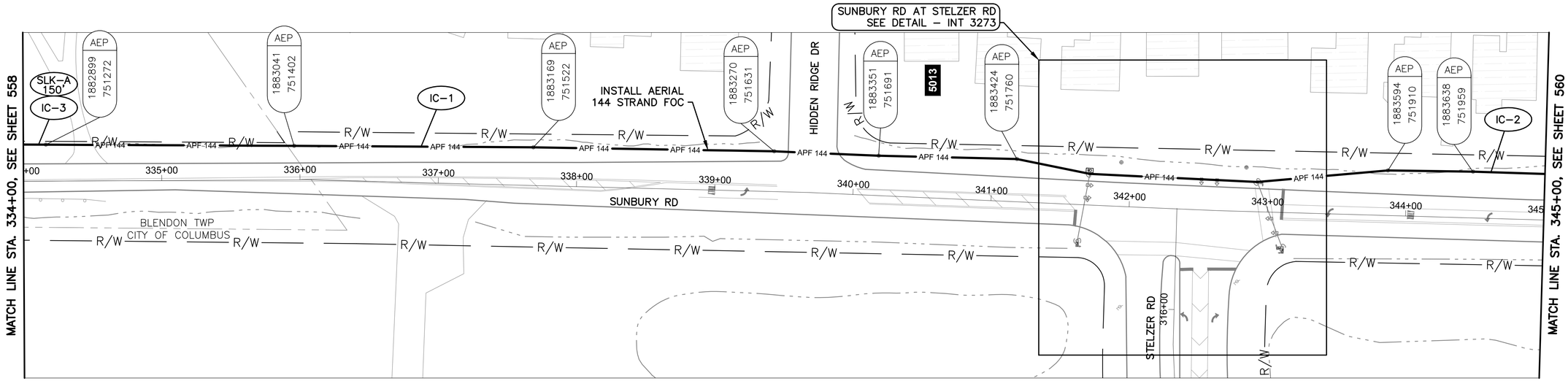
CIP: 540007–100012
PID NUMBER: 99733

INTERCONNECT PLAN
SUNBURY RD BETWEEN STA. 323+00 AND 334+00

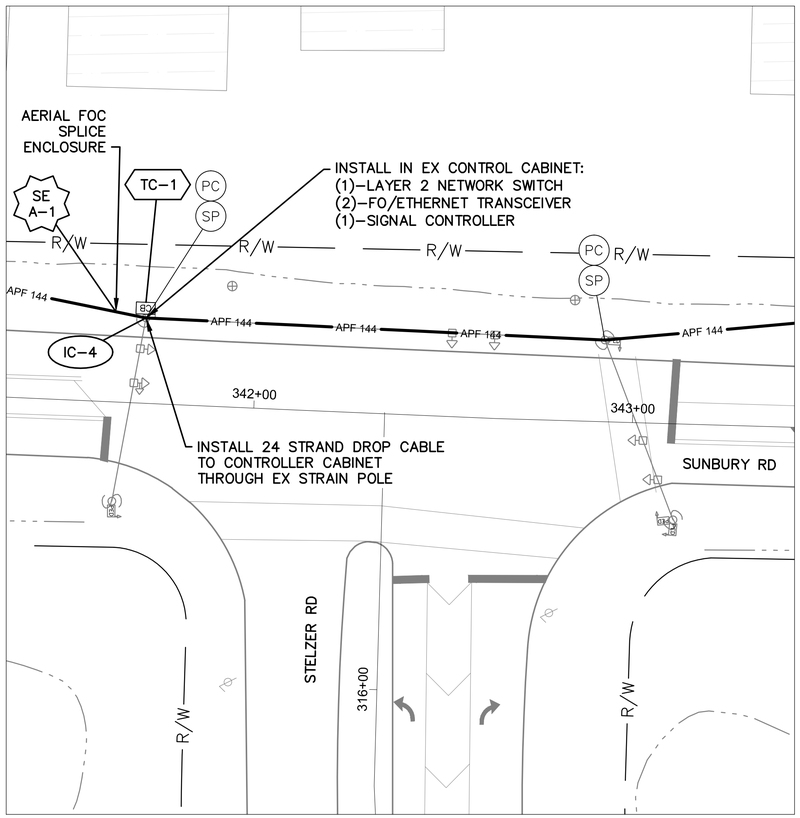
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

558
915

d:\jobs\63721 ctss phase e\TECHPROD\Sheets\CTSS_PhE_Trunk4_SUNBURY_INTERCONNECT.dwg – SUNBURY–2 layout ~ last saved by: rwegehaupt 08/29/2018 09:47am ~ printed 09/12/2018 06:01am PSLTS: 1 LTS: 1 CAS: 1:1



SUNBURY RD BETWEEN STATION 334+00 AND 345+00



DETAIL - INT 3273

0 20 40
HORIZONTAL
SCALE IN FEET

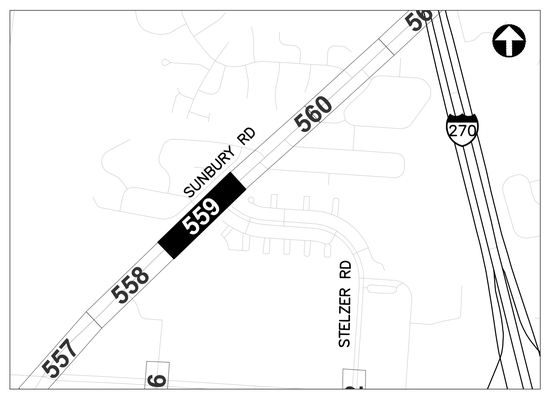
NOTES:

1. SEE SHEET 562 FOR QUANTITIES.
2. SEE SHEETS 624 & 792 FOR COMMUNICATION DETAILS.
3. EXISTING CONDUIT TO CONTROLLER CABINET IS FULL. INSTALL NEW FLEXIBLE CONDUIT TO CABINET FOR PROPOSED DROP CABLE.

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CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 315 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

0 40 80
HORIZONTAL
SCALE IN FEET

CIP: 540007–100012
PID NUMBER: 99733

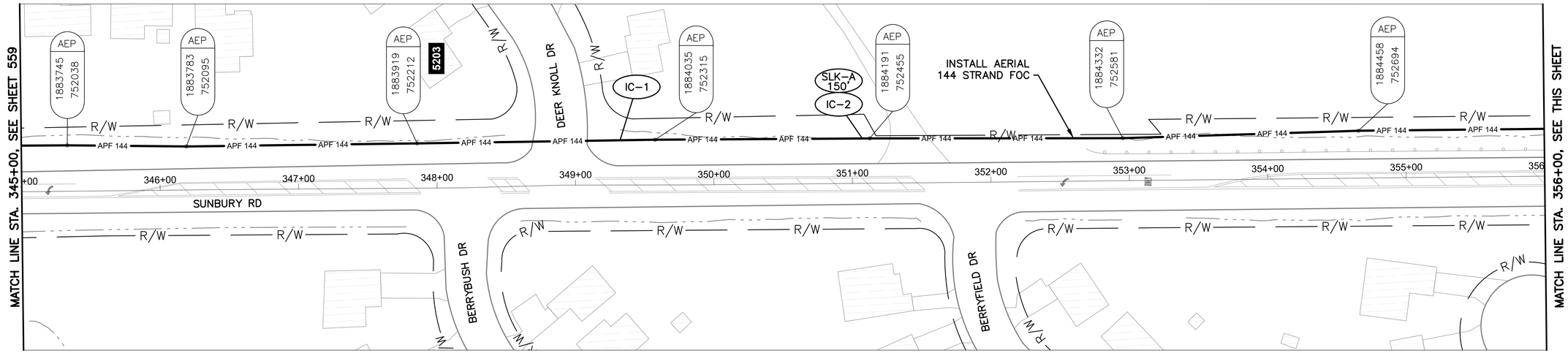
INTERCONNECT PLAN
SUNBURY RD BETWEEN STA. 334+00 AND 345+00, INT 3273

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

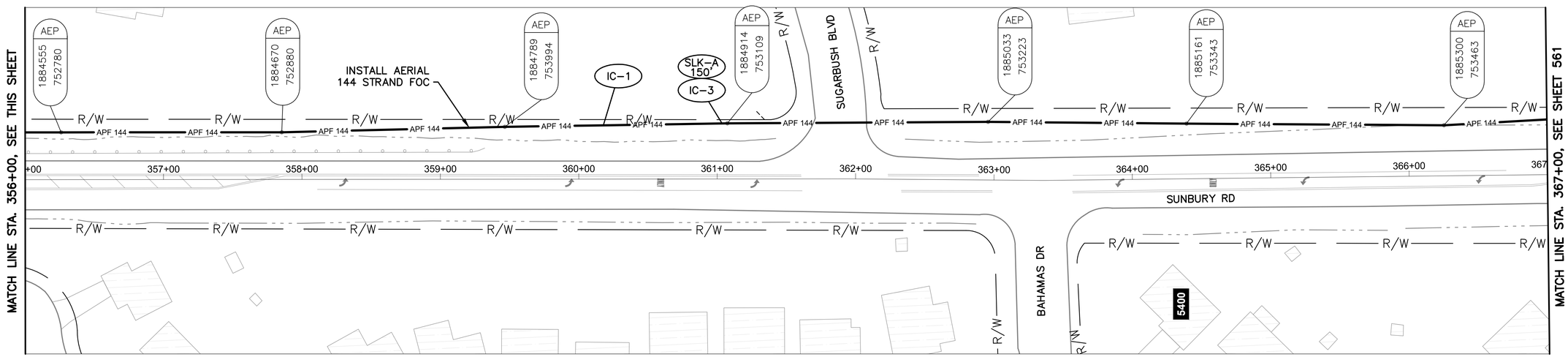
559
915

3378-E

d:\Jobs\63721 CTSS Phase E\TECHPROD\Sheets\CTSS_PhE_Trunk4_SUNBURY_INTERCONNECT.dwg – SUNBURY–3 layout ~ last saved by: gburch 09/13/2018 04:02pm ~ printed 09/13/2018 06:25pm PSLTS: 1 LTS: 1 CAS: 1:1



SUNBURY RD BETWEEN STATION 345+00 AND 356+00



SUNBURY RD BETWEEN STATION 356+00 AND 367+00

NOTES:

1. SEE SHEET 562 FOR QUANTITIES.
2. SEE SHEET 624 FOR COMMUNICATION DETAILS.

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CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 315 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

HORIZONTAL SCALE IN FEET
0 40 80

CIP: 540007-100012
PID NUMBER: 99733

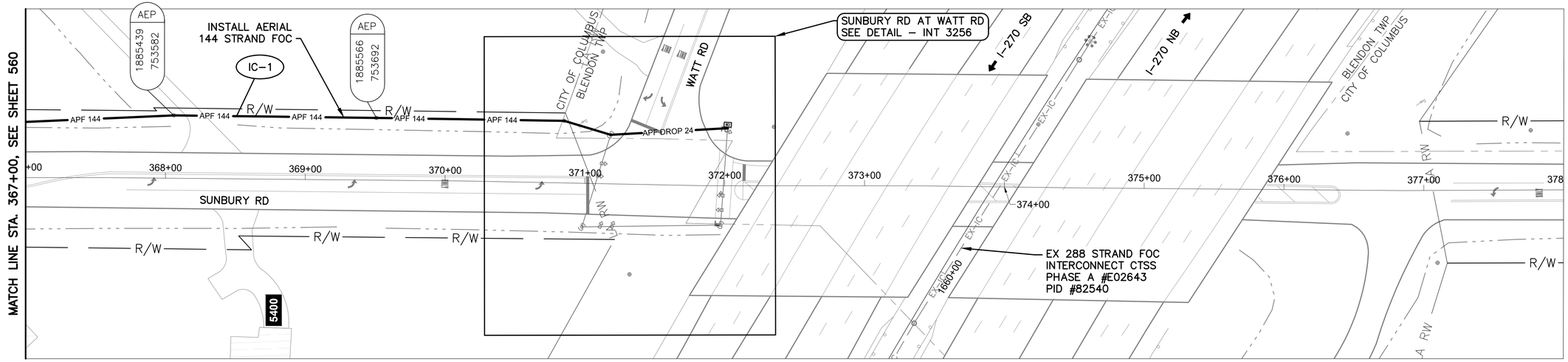
INTERCONNECT PLAN
SUNBURY RD BETWEEN STA. 345+00 AND 367+00

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

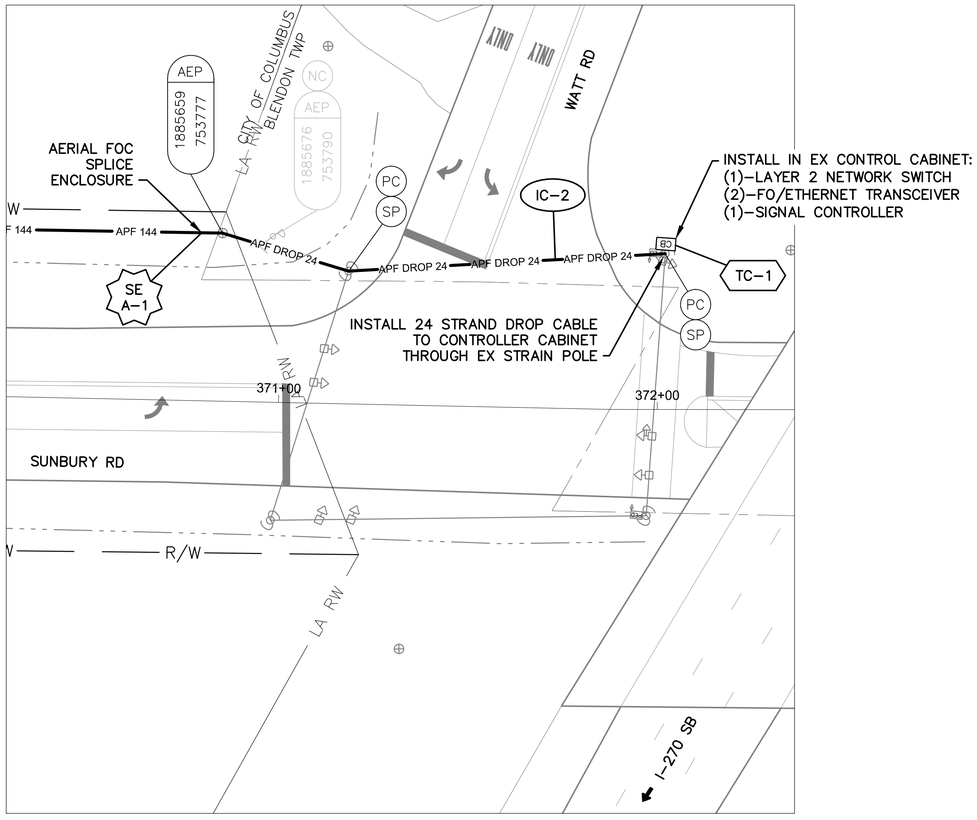
560
915

3378-E

J:\Jobs\63721 ctss phase e\TECHPROD\Sheets\CTSS_PhE_Trunk4_SUNBURY_INTERCONNECT.dwg – SUNBURY-4 layout ~ last saved by: rwegehaupt 08/29/2018 09:47am ~ printed 09/12/2018 06:06am PSLTS: 1 LTS: 1 CAS: 1:1



SUNBURY RD BETWEEN STATION 367+00 AND 378+00



DETAIL - INT 3256

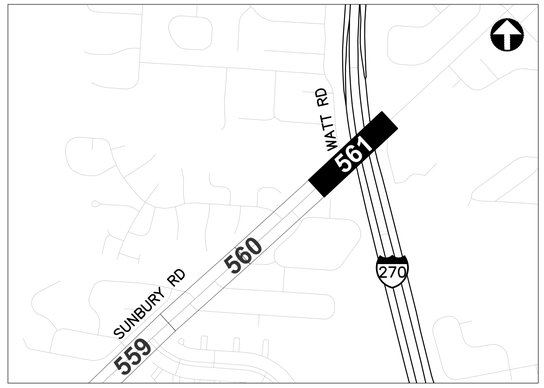
0 20 40
HORIZONTAL
SCALE IN FEET

NOTES:

1. SEE SHEET 562 FOR QUANTITIES.
2. SEE SHEETS 624 & 793 FOR COMMUNICATION DETAILS.
3. EXISTING CONDUIT TO CONTROLLER CABINET IS FULL. INSTALL NEW FLEXIBLE CONDUIT TO CABINET FOR PROPOSED DROP CABLE.

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CITY OF COLUMBUS UTILITY LEGEND
- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 315 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

3378-E

0 40 80
HORIZONTAL
SCALE IN FEET

CIP: 540007-100012
PID NUMBER: 99733

INTERCONNECT PLAN
SUNBURY RD BETWEEN STA. 367+00 AND 378+00, INT 3256

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E - FINAL SUBMITTAL

561
915

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ESTIMATED QUANTITIES

SHEET NO.	REFERENCE NO.	LOCATION	STATION		202	632	632	632	632	632	632	633	633	633	633										
					EXISTING CONDUIT CLEANED, AS PER PLAN	INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 144 STRAND	INTERCONNECT CABLE, MISC.: FIBER OPTIC DROP CABLE, 24 STRAND	INTERCONNECT CABLE, MISC.: FIBER OPTIC FUSION SPLICE	INTERCONNECT CABLE, MISC.: TERMINATION PANEL, 24 FIBER	INTERCONNECT, MISC.: SPLICE ENCLOSURE, CLAMSHELL, 288 SPLICE	MESSENGER WIRE, 7 STRAND, 1/4" DIAMETER WITH ACCESSORIES, AS PER PLAN	CONTROLLER ITEM, MISC.: FIBER OPTIC ETHERNET TRANSCEIVER, SHORT RANGE	CONTROLLER ITEM, MISC.: LAYER 2 ETHERNET SWITCH	CONTROLLER ITEM, MISC.: LAYER 3 ETHERNET SWITCH, ENVIRONMENTALLY HARDENED	CONTROLLER UNIT, TYPE TS2/A2, AS PER PLAN									
			FROM	TO	FT	FT	FT	EACH	EACH	EACH	FT	EACH	EACH	EACH	EACH										
SUNBURY RD. BETWEEN STA. 312+00 AND 323+00, INT 3209																									
557	TC-1	SUNBURY RD	313+07, 61' LT				10		1																
557	IC-4	SUNBURY RD	313+07, 61' LT	313+10, 69' LT	8		8																		
557	SE U-1	SUNBURY RD	313+10, 69' LT			75	125	204		1															
557	IC-3	SUNBURY RD	313+10, 69' LT	313+15, 76' LT	8	8																			
557	IC-2	SUNBURY RD	313+15, 76' LT			35																			
557	IC-1	SUNBURY RD	313+15, 76' LT	323+00, 33' LT		1,018					1,018														
SUNBURY RD. BETWEEN STA. 323+00 AND 334+00																									
558	IC-1	SUNBURY RD	323+00, 33' LT	334+00, 27' LT		1,117					1,117														
558	IC-2	SUNBURY RD	323+21, 33' LT			150																			
SUNBURY RD. BETWEEN STA. 334+00 AND 345+00, INT 3273																									
559	IC-1	SUNBURY RD	334+00, 27' LT	341+70, 23' LT		785					785														
559	IC-3	SUNBURY RD	334+11, 26' LT			150																			
559	SE A-1	SUNBURY RD	341+70, 23' LT			150	125	24		1															
559	IC-4	SUNBURY RD	341+70, 23' LT	341+70, 23' LT			35																		
559	TC-1	SUNBURY RD	341+70, 23' LT				10		1			2	1		1										
559	IC-2	SUNBURY RD	341+70, 23' LT	345+00, 33' LT		335					335														
SUNBURY RD. BETWEEN STA. 345+00 AND 367+00																									
560	IC-1	SUNBURY RD	345+00, 33' LT	367+00, 40' LT		2,233					2,233														
560	IC-2	SUNBURY RD	351+07, 32' LT			150																			
560	IC-3	SUNBURY RD	361+03, 41' LT			150																			
SUNBURY RD. BETWEEN STA. 367+00 AND 378+00, INT 3256																									
561	IC-1	SUNBURY RD	367+00, 40' LT	370+84, 44' LT		391					391														
561	SE A-1	SUNBURY RD	370+84, 44' LT			75	125	12		1															
561	IC-2	SUNBURY RD	370+84, 44' LT	372+02, 41' LT			120				120														
561	TC-1	SUNBURY RD	372+02, 41' LT				45		1			2	1		1										
I-71 AT NORTH BROADWAY, NODE #071113.4																									
869	CN-1	I-71										2													
I-270 AT CEMETERY RD., NODE #270012.6																									
885	CN-1	I-270												1											
I-270 AT SAWMILL RD., NODE #270019.8																									
889	CN-1	I-270										2													
I-270 AT MORSE RD., NODE #270032.2																									
902	CN-1	I-270										3													
I-670 AT STELZER RD., NODE #670009.0																									
914	CN-1	I-670										3													
SR-315 AT LANE AVE., NODE #315004.4																									
915	CN-1	SR-315										2													
SHEET TOTAL					16	6,822	603	240	3	3	5,999	16	2	1	2	-	-	-	-	-	-	-	-	-

AERIAL SAG: 1.5% AERIAL SAG IS INCLUDED IN THE QUANTITIES FOR ANY AERIAL FIBER OR CABLE ITEMS.

3378-E

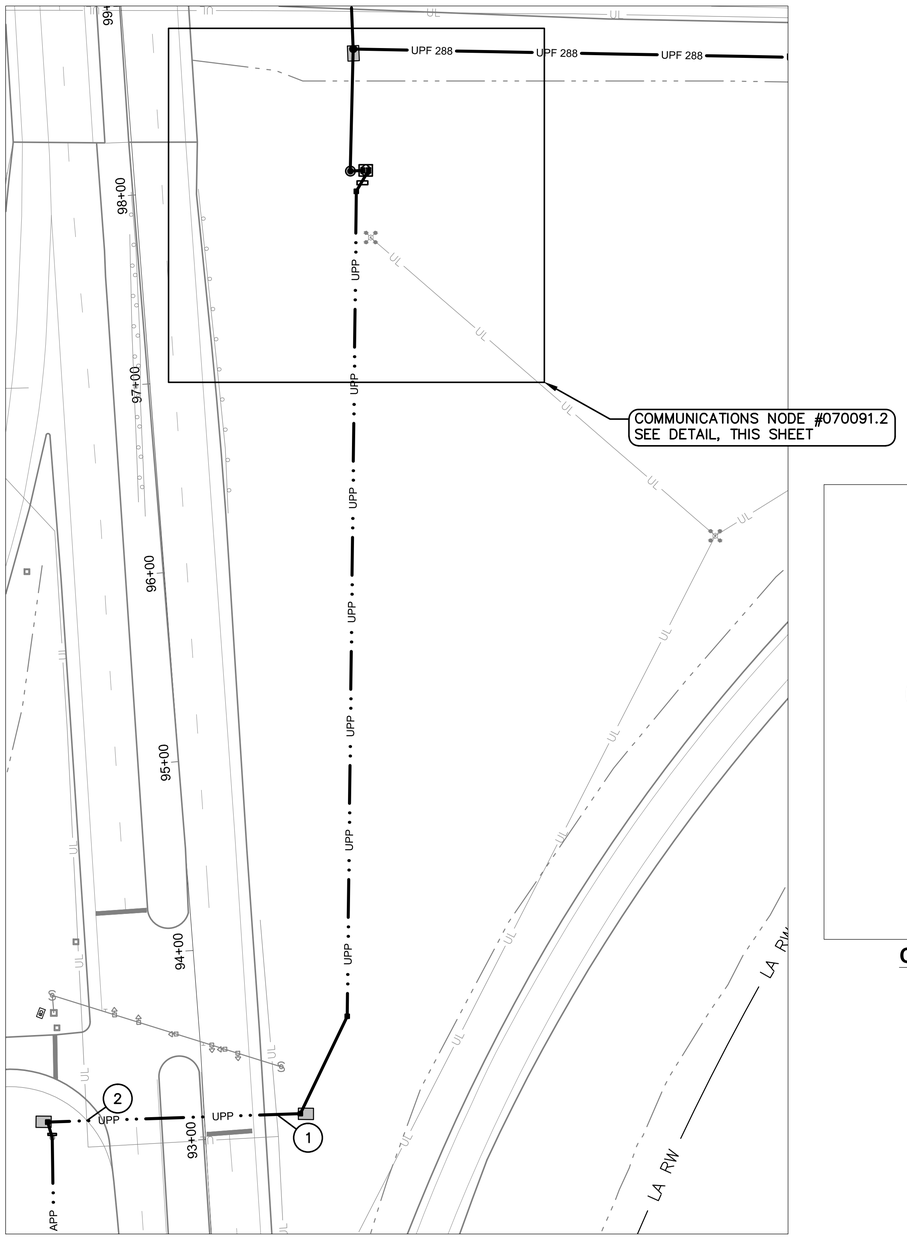
CIP: 540007–100012
PID NUMBER: 99733

SUNBURY RD BETWEEN STA. 312+00 & 378+00
INTS 3209, 3273, 3256

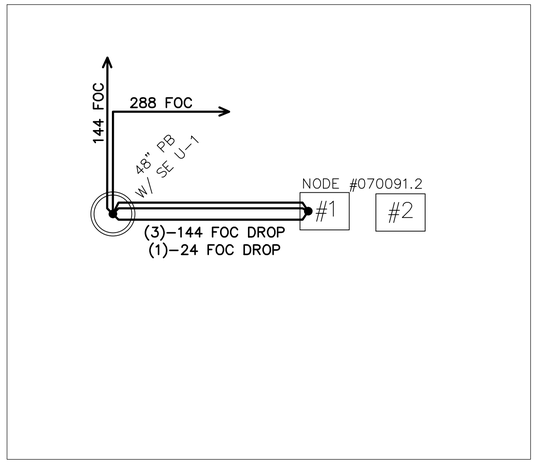
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

562
915

J:\Jobs\63721 CTSS Phase E\TECHPROD\Sheets\CTSS_PhE_Trunk4_SUNBURY_IC_QUANTITIES.dwg ~ SUNBURY RD_Q4 layout ~ last saved by: gburch 09/05/2018 02:42pm ~ printed 09/18/2018 10:43am PSLTS: 1 LTS: 1 CAS: 1:1

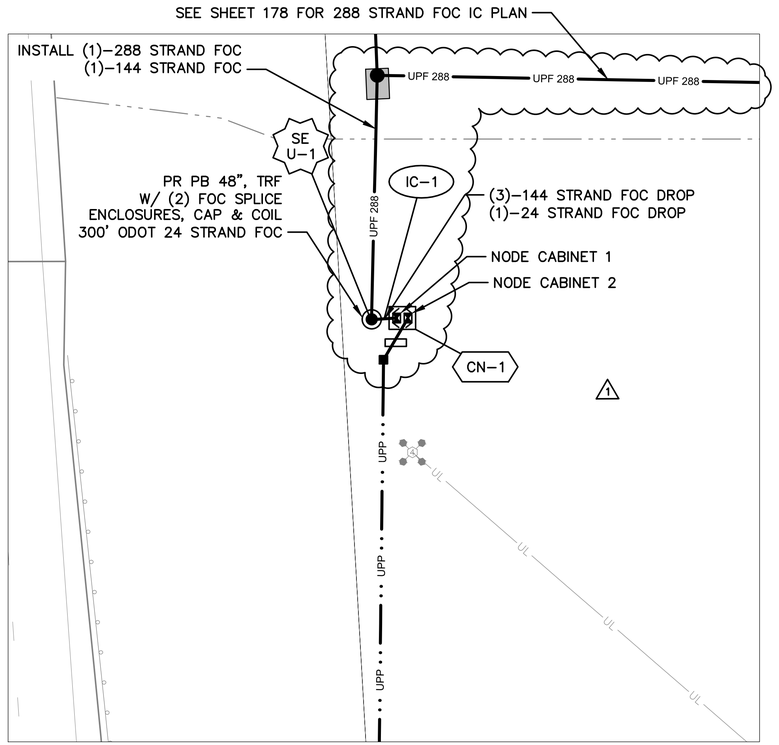


HILLIARD ROME RD BETWEEN STATION 92+50 AND 99+00



CABLE SCHEMATIC - NODE #070091.2

NOT TO SCALE



DETAIL - COMMUNICATIONS NODE #070091.2

HORIZONTAL SCALE IN FEET

NOTES:

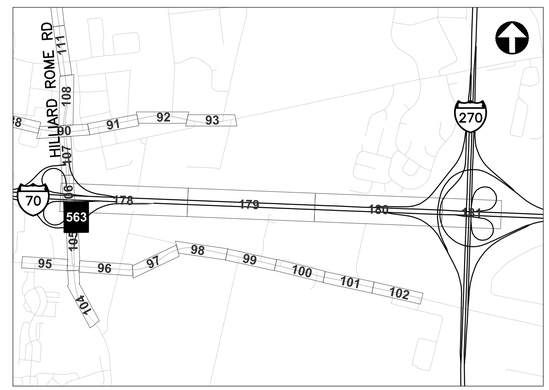
1. SEE SHEET 564 FOR QUANTITIES.
2. SEE SHEETS 611, 860 & 861 FOR COMMUNICATION DETAILS.
3. SEE SHEET 105 FOR HILLIARD–ROME RD INTERCONNECT PLAN.
4. SEE SHEET 178 FOR I–70 INTERCONNECT PLAN.
5. SEE SHEET 338 FOR POWER SERVICE DETAILS.
6. LIMITED ACCESS RIGHT OF WAY IS LOCATED OUTSIDE OF THE EXTENT OF VIEWS SHOWN ABOVE.

(#) EXISTING UTILITY CROSSING. SEE UTILITY CROSSING INFO SHEET 326.

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www.oups.org

CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☒ LIGHTING



REFER TO SHEET 9 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

1 REVISION 1.0
11–02–2018

3378-E

HORIZONTAL SCALE IN FEET

CIP: 540007–100012
PID NUMBER: 99733

COMMUNICATIONS NODE PLAN
HILLIARD ROME RD BETWEEN STA. 92+50 AND 99+00, NODE #070091.2

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

563
915

J:\Jobs\6372\ CTSS Phase E\TECHPROD\Sheets\CTSS_PhE_Trunk0_NODE_70_at_HRR.dwg – NODE_070091.2 layout ~ last saved by: jbeans 11/06/2018 10:06am ~ printed 11/06/2018 10:06am PSLTS: 1 LTS: 1 CAS: 1:1

ESTIMATED QUANTITIES

SHEET NO.	REFERENCE NO.	LOCATION	STATION FROM	STATION TO	625 CONDUIT, 4", AS PER PLAN (FT)	625 PULL BOX, CONCRETE 48", AS PER PLAN (EACH)	625 TRENCH, 36" DEEP, AS PER PLAN (FT)	632 INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 144 STRAND (FT)	632 INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 24 STRAND (FT)	632 INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 288 STRAND (FT)	632 INTERCONNECT CABLE, MISC.: FIBER OPTIC FUSION SPLICE (EACH)	632 INTERCONNECT, MISC.: DUAL PANEL ASSEMBLY, 24 FIBER, 1 RU, PRE-TERMINATED (EACH)	632 INTERCONNECT, MISC.: PRE-TERMINATED FIBER OPTIC DROP CABLE, 144 STRAND, 150FT (EACH)	632 INTERCONNECT, MISC.: PRE-TERMINATED FIBER OPTIC DROP CABLE, 24 STRAND, 150FT (EACH)	632 INTERCONNECT, MISC.: SPLICE ENCLOSURE, CLAMSHELL, 288 SPLICE (EACH)	632 INTERCONNECT, MISC.: TERMINATION PANEL, 144 FIBER, 4 RU (EACH)	632 INTERCONNECT, MISC.: TERMINATION PANEL, 24 FIBER, 1 RU (EACH)	632 INTERCONNECT, MISC.: TERMINATION PANEL, 288 FIBER, 4 RU (EACH)	633 CONTROLLER ITEM, MISC.: COMMUNICATIONS NODE (EACH)	633 CONTROLLER ITEM, MISC.: FIBER OPTIC ETHERNET TRANSCEIVER, SHORT RANGE (EACH)	633 CONTROLLER ITEM, MISC.: LAYER 3 ETHERNET SWITCH, ENVIRONMENTALLY HARDENED (EACH)			
HILLIARD ROME RD. BETWEEN STA. 92+50 AND 99+00, NODE #070091.2																									
563	SE U-1	HILLIARD ROME RD	98+04, 114' RT			1		75	300	75	312				2										
563	IC-1	HILLIARD ROME RD	98+04, 114' RT	98+04, 121' RT	14		7						3	1											
563	CN-1	HILLIARD ROME RD	98+04, 121' RT									1				1	1	1	1	4	1				
														1											
SHEET TOTAL					14	1	7	75	300	75	312	1	3	1	2	1	1	1	1	4	1	-	-	-	

AERIAL SAG: 1.5% AERIAL SAG IS INCLUDED IN THE QUANTITIES FOR ANY AERIAL FIBER OR CABLE ITEMS.

1 REVISION 1.0 11-02-2018

3378-E

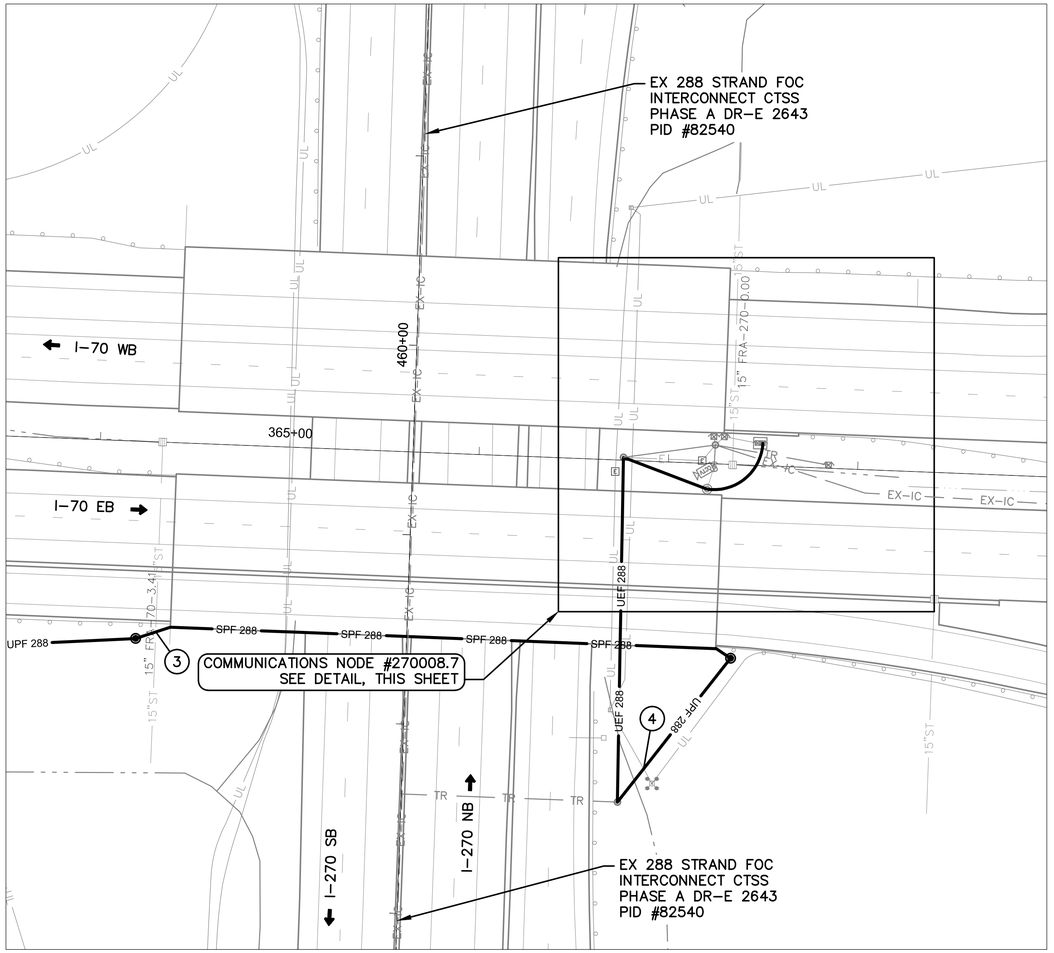
CIP: 540007-100012
PID NUMBER: 99733

HILLARD ROME RD BETWEEN STA. 92+50 AND 99+00
NODE #070091.2

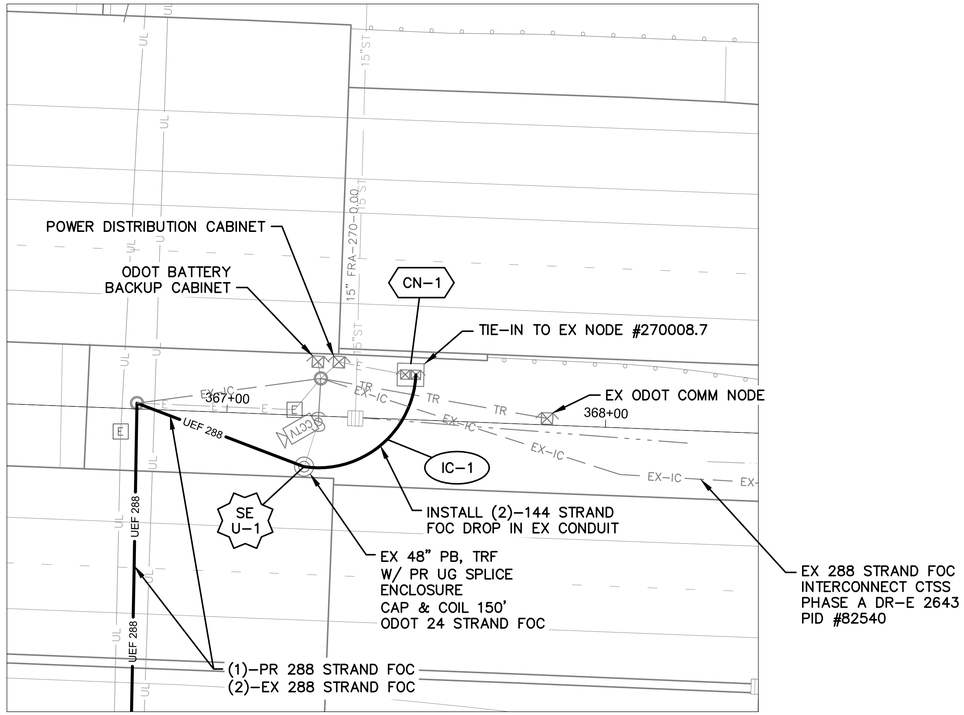
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E - FINAL SUBMITTAL

564
915

J:\Jobs\63721 CTSS Phase E\TECHPROD\Sheets\CTSS_PhE_TrunkALL_N_JC_QUANTITIES.dwg - I-70 at HILL ROME _Q1 layout ~ last saved by: jbeans 11/05/2018 03:07pm ~ printed 11/06/2018 02:46pm PSLTS: 1 LTS: 1 CAS: 1:1



I-70 BETWEEN STATION 363+50 AND 369+00



DETAIL - COMMUNICATIONS NODE #270008.7

0 20 40
HORIZONTAL
SCALE IN FEET

NOTES:

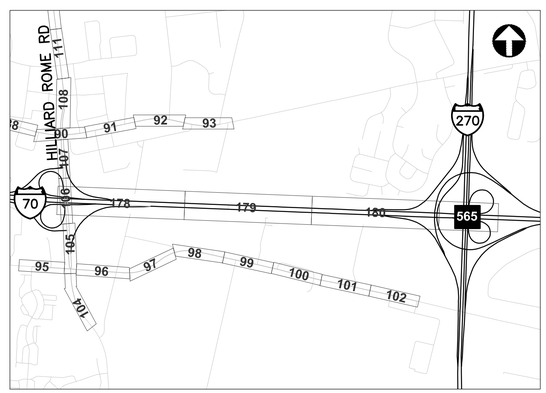
1. SEE SHEET 566 FOR QUANTITIES.
2. SEE SHEETS 614, 880 & 881 FOR COMMUNICATION DETAILS.
3. SEE SHEET 181 FOR INTERCONNECT PLANS.
4. SEE SHEET 181 FOR UTILITY CROSSINGS 1-2.
5. LIMITED ACCESS RIGHT OF WAY IS LOCATED OUTSIDE OF THE EXTENT OF VIEWS SHOWN ABOVE.

(#) EXISTING UTILITY CROSSING.
SEE UTILITY CROSSING INFO
SHEET 326.

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CITY OF COLUMBUS
UTILITY LEGEND

- [X] SEWER
- [ ] WATER
- [ ] POWER
- [ ] LIGHTING



REFER TO SHEET 9 FOR
INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

3378-E

0 40 80
HORIZONTAL
SCALE IN FEET

CIP: 540007-100012
PID NUMBER: 99733

COMMUNICATIONS NODE PLAN
I-70 BETWEEN STA. 363+50 AND 369+00, NODE #270008.7

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E - FINAL SUBMITTAL

565
915

J:\Jobs\63721 ctss phase e\TECHPROD\Sheets\CTSS_PhE_Trunk0_EX_NODE_270008.7.dwg - NODE_270008.7 layout ~ last saved by: gburch 06/18/2018 08:43am ~ printed 09/12/2018 06:13am PSLTS: 1 LTS: 1 CAS: 1:1

ESTIMATED QUANTITIES

SHEET NO.	REFERENCE NO.	LOCATION	STATION		632	632	632	632	632	632	633														
					INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 24 STRAND	INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 288 STRAND	INTERCONNECT CABLE, MISC.: FIBER OPTIC FUSION SPLICE	INTERCONNECT, MISC.: PRE-TERMINATED FIBER OPTIC DROP CABLE, 144 STRAND, 150FT	INTERCONNECT, MISC.: SPLICE ENCLOSURE, CLAMSHELL, 288 SPLICE	INTERCONNECT, MISC.: TERMINATION PANEL, 144 FIBER, 4 RU	CONTROLLER ITEM, MISC.: FIBER OPTIC ETHERNET TRANSCEIVER, SHORT RANGE													
			FROM	TO	FT	FT	EACH	EACH	EACH	EACH	EACH														
I-70 BETWEEN STA. 363+50 AND 369+00, NODE #270008.7																									
565	SE U-1	I-70	367+21, 14' RT		150	75	288		1																
565	IC-1	I-70	367+21, 14' RT	367+49, 12' LT				2																	
565	CN-1	I-70	367+49, 12' LT							2	1														
SHEET TOTAL					150	75	288	2	1	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-

AERIAL SAG: 1.5% AERIAL SAG IS INCLUDED IN THE QUANTITIES FOR ANY AERIAL FIBER OR CABLE ITEMS.

3378-E

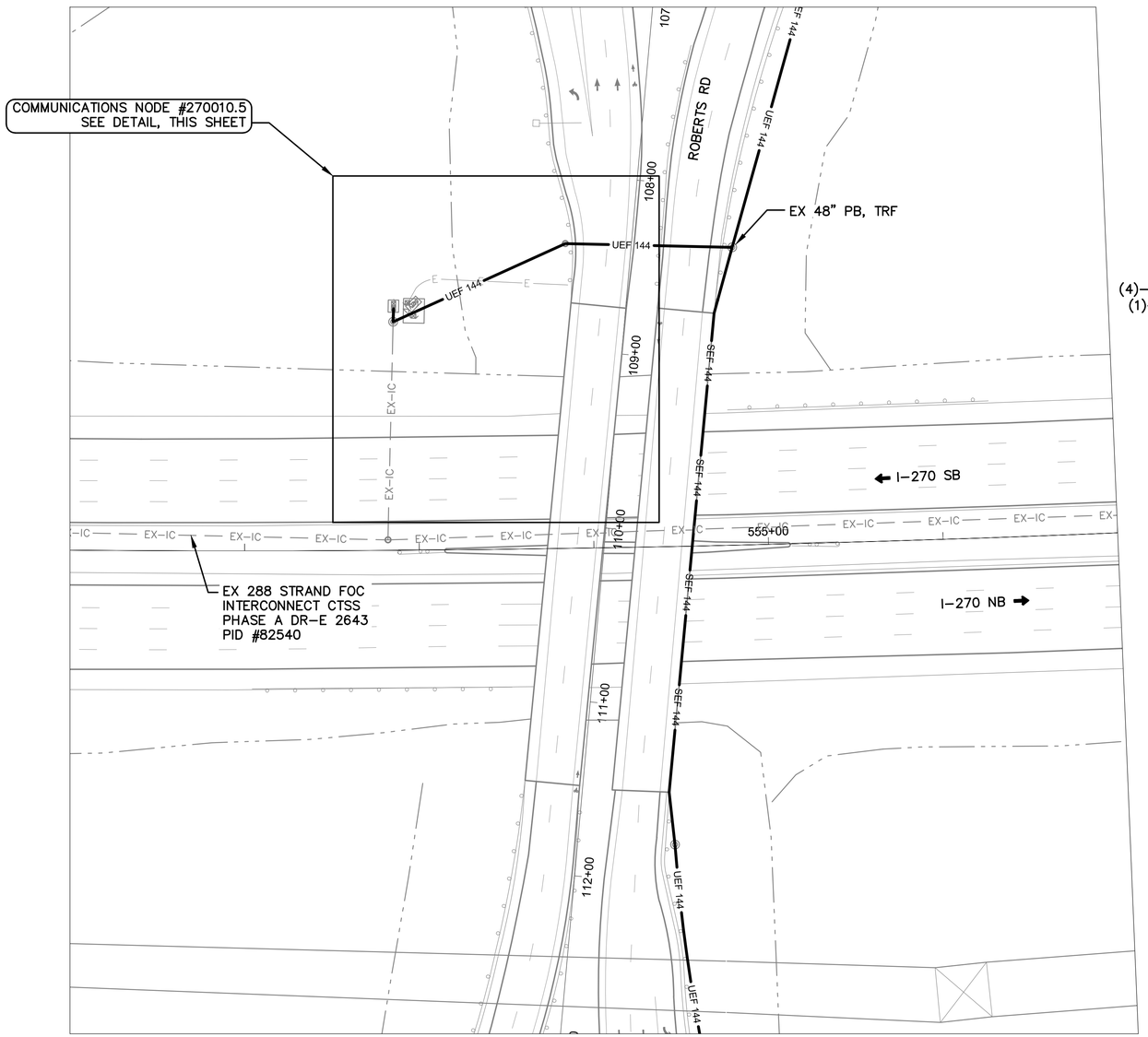
CIP: 540007-100012
PID NUMBER: 99733

I-70 BETWEEN STA. 363+50 AND 369+00
NODE #270008.7

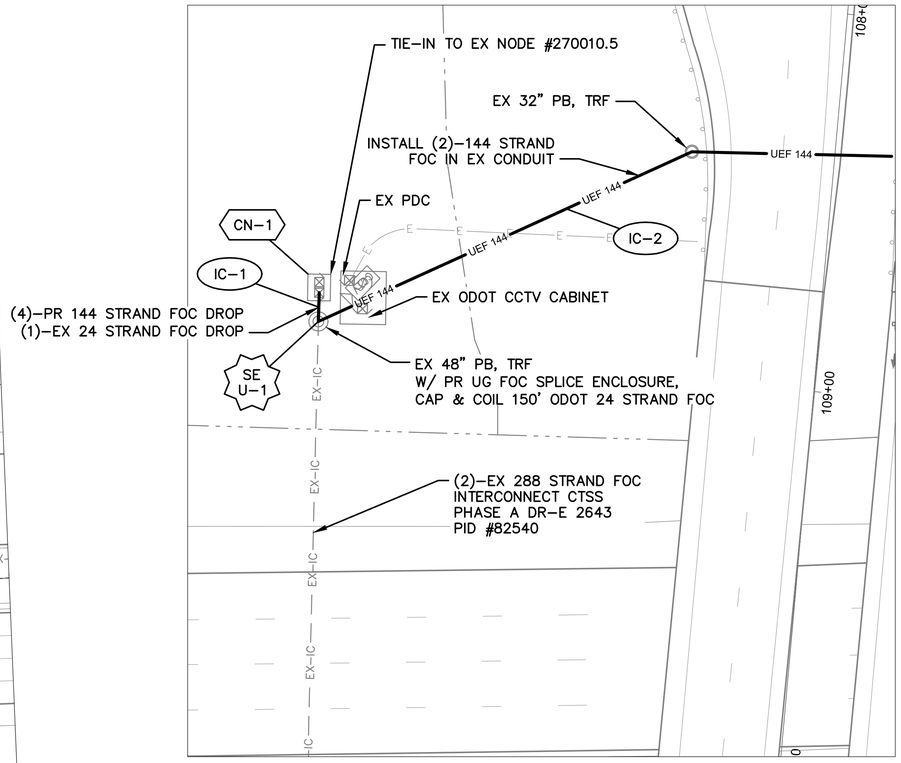
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E - FINAL SUBMITTAL

566
915

J:\Jobs\63721 CTSS Phase E\TECHPROD\Sheets\CTSS_PhE_TrunkALL_N_IC_QUANTITIES.dwg ~ I-70 at I-270 _02 layout ~ last saved by: gburch 09/06/2018 02:04pm ~ printed 09/18/2018 10:48am PSLTS: 1 LTS: 1 CAS: 1:1



I-270 BETWEEN STATION 551+00 AND 557+00



DETAIL - COMMUNICATIONS NODE #270010.5

0 20 40

HORIZONTAL
SCALE IN FEET

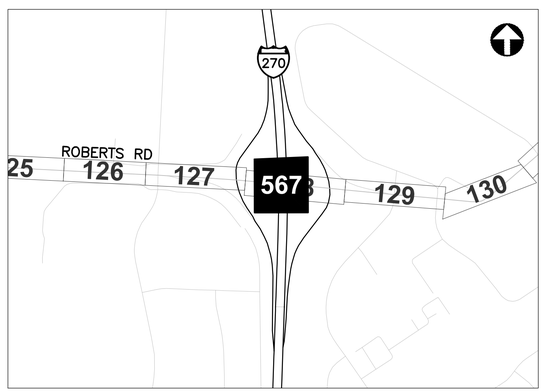
NOTES:

1. SEE SHEET 568 FOR QUANTITIES.
2. SEE SHEETS 614, 883 & 884 FOR COMMUNICATION DETAILS.
3. SEE SHEET 128 FOR INTERCONNECT PLANS.
4. LIMITED ACCESS RIGHT OF WAY IS LOCATED OUTSIDE OF THE EXTENT OF VIEWS SHOWN ABOVE.

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CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 9 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

3378-E

0 20 40

HORIZONTAL SCALE IN FEET

CIP: 540007-100012
PID NUMBER: 99733

COMMUNICATIONS NODE PLAN
ROBERTS RD BETWEEN STA. 551+00 AND 557+00, NODE #270010.5

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

567
915

J:\Jobs\63721 ctss phase e\TECHPROD\Sheets\CTSS_PhE_TrunkO_EX_NODE_270010.5.dwg – NODE_270010.5 layout ~ last saved by: gburch 06/18/2018 08:45am ~ printed 09/12/2018 06:16am PSLTS: 1 LTS: 1 CAS: 1:1

ESTIMATED QUANTITIES

SHEET NO.	REFERENCE NO.	LOCATION	STATION		202	632	632	632	632	632	632	632	632	632	633										
					EXISTING CONDUIT CLEANED, AS PER PLAN	INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 144 STRAND	INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 24 STRAND	INTERCONNECT CABLE, MISC.: FIBER OPTIC FUSION SPLICE	INTERCONNECT, MISC.: DUAL PANEL ASSEMBLY, 24 FIBER, 1 RU, PRE-TERMINATED	INTERCONNECT, MISC.: PRE-TERMINATED FIBER OPTIC DROP CABLE, 144 STRAND, 150FT	INTERCONNECT, MISC.: SPLICE ENCLOSURE, CLAMSHELL, 288 SPLICE	INTERCONNECT, MISC.: SPLICE ENCLOSURE, DOME, 800 SPLICE	INTERCONNECT, MISC.: TERMINATION PANEL, 144 FIBER, 4 RU	INTERCONNECT, MISC.: TERMINATION PANEL, 288 FIBER, 4 RU	CONTROLLER ITEM, MISC.: FIBER OPTIC ETHERNET TRANSCEIVER, SHORT RANGE									
			FROM	TO	FT	FT	FT	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH									
I-270 BETWEEN STA. 551+00 AND 557+00, NODE #270010.5																									
567	SE U-1	I-270	552+86, 131' LT			150	150	576			1	1													
567	IC-1	I-270	552+86, 131' LT	552+86, 138' LT						4															
567	IC-2	I-270	552+86, 131' LT	554+83, 171' LT	204	408																			
567	CN-1	I-270	552+86, 138' LT						1				2	1	5										
SHEET TOTAL					204	558	150	576	1	4	1	1	2	1	5	-	-	-	-	-	-	-	-	-	

AERIAL SAG: 1.5% AERIAL SAG IS INCLUDED IN THE QUANTITIES FOR ANY AERIAL FIBER OR CABLE ITEMS.

3378-E

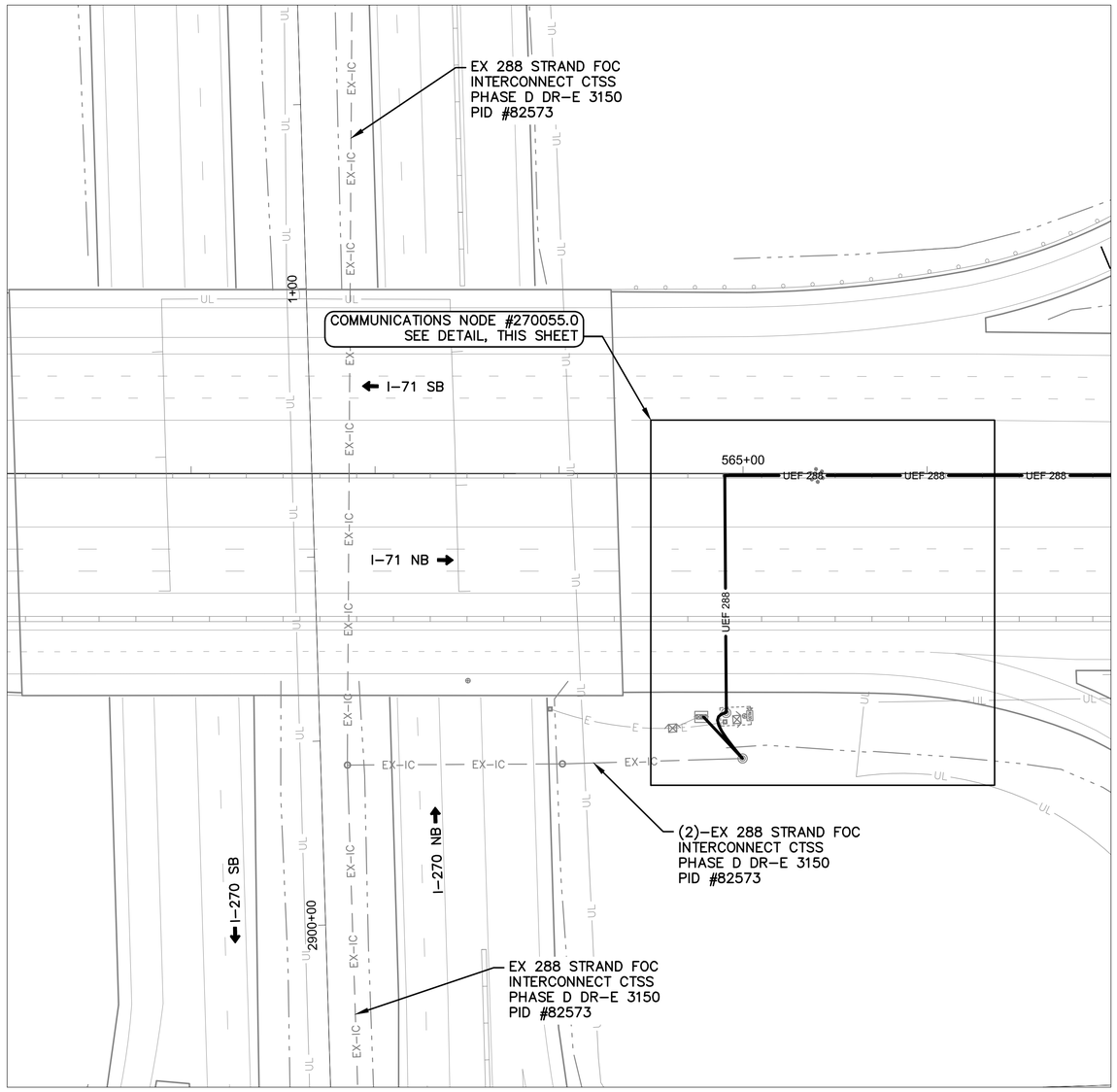
CIP: 540007-100012
PID NUMBER: 99733

I-270 BETWEEN STA. 551+00 AND 557+00
NODE #270010.5

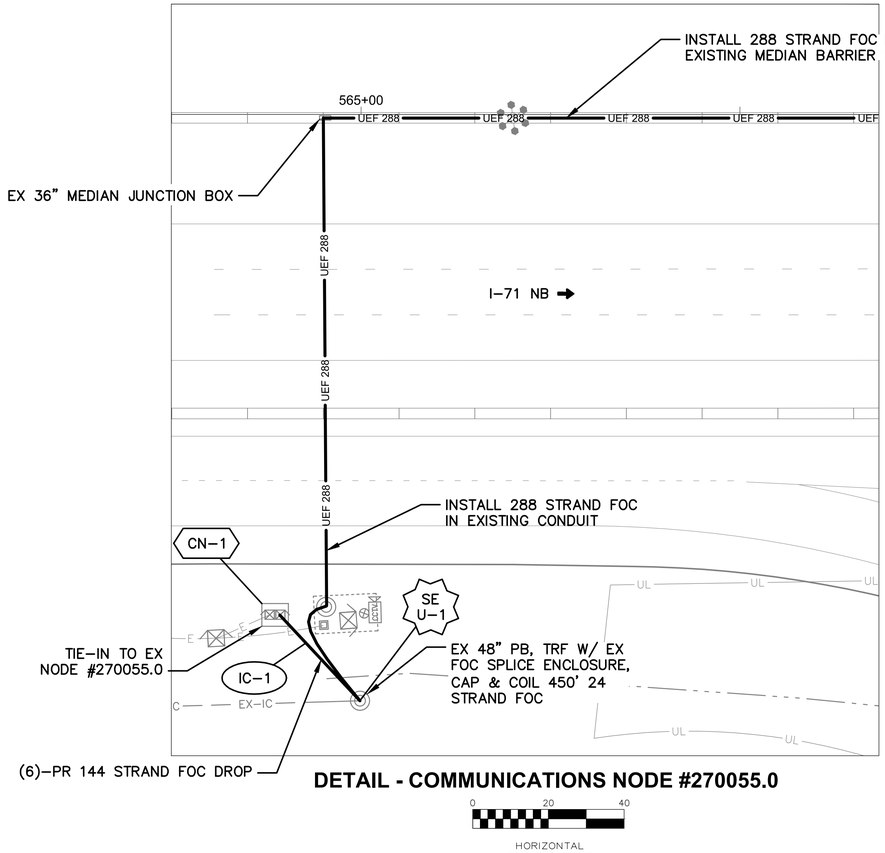
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

568
915

J:\Jobs\63721 CTSS Phase E\TECHPROD\Sheets\CTSS_PhE_TrunkALL_N_IC_QUANTITIES.dwg ~ I-270 at ROBERTS_G3 layout ~ last saved by: gburch 09/06/2018 02:04pm ~ printed 09/18/2018 10:48am PSLTS: 1 LTS: 1 CAS: 1:1



I-71 BETWEEN STATION 561+00 AND 567+00



DETAIL - COMMUNICATIONS NODE #270055.0

0 20 40
HORIZONTAL
SCALE IN FEET

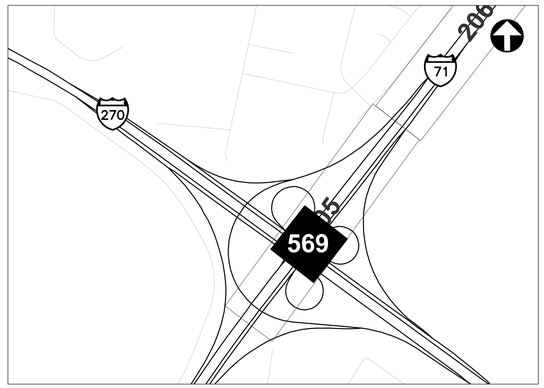
NOTES:

1. SEE SHEET 570 FOR QUANTITIES.
2. SEE SHEETS 629, 910 & 911 FOR COMMUNICATION DETAILS.
3. SEE SHEET 205 FOR INTERCONNECT PLAN.
4. LIMITED ACCESS RIGHT OF WAY IS LOCATED OUTSIDE OF THE EXTENT OF VIEWS SHOWN ABOVE.

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CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 12 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

3378-E

0 40 80
HORIZONTAL
SCALE IN FEET

CIP: 540007–100012
PID NUMBER: 99733

COMMUNICATIONS NODE PLAN
I–71 BETWEEN STA. 561+00 AND 567+00, NODE #270055.0

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

569
915

J:\Jobs\63721 ctss phase e\TECHPROD\Sheets\CTSS_PhE_Trunk1_EX_NODE_270055.0.dwg ~ NODE_270055.0 layout ~ last saved by: gburch 06/18/2018 08:50am ~ printed 09/12/2018 06:19am PSLTS: 1 LTS: 1 CAS: 1:1

ESTIMATED QUANTITIES

SHEET NO.	REFERENCE NO.	LOCATION	STATION		202	632	632	632	632	632	632	632	633											
					EXISTING CONDUIT CLEANED, AS PER PLAN	INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 24 STRAND	INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 288 STRAND	INTERCONNECT CABLE, MISC.: FIBER OPTIC FUSION SPLICE	INTERCONNECT, MISC.: PRE-TERMINATED FIBER OPTIC DROP CABLE, 144 STRAND, 150FT	INTERCONNECT, MISC.: SPLICE ENCLOSURE, CLAMSHELL, 288 SPLICE	INTERCONNECT, MISC.: TERMINATION PANEL, 144 FIBER, 4 RU	INTERCONNECT, MISC.: TERMINATION PANEL, 288 FIBER, 4 RU	CONTROLLER ITEM, MISC.: FIBER OPTIC ETHERNET TRANSCEIVER, SHORT RANGE										
			FROM	TO	FT	FT	FT	EACH	EACH	EACH	EACH	EACH	EACH											
I-71 BETWEEN STA. 561+00 AND 567+00, NODE #270055.0																								
569	CN-1	I-71	564+79, 132' RT								2	2	1											
569	IC-1	I-71	564+79, 132' RT	565+00, 155' RT	31				6															
569	SE U-1	I-71	565+00, 155' RT			450	75	864		3														
SHEET TOTAL					31	450	75	864	6	3	2	2	1	-	-	-	-	-	-	-	-	-	-	-

AERIAL SAG: 1.5% AERIAL SAG IS INCLUDED IN THE QUANTITIES FOR ANY AERIAL FIBER OR CABLE ITEMS.

3378-E

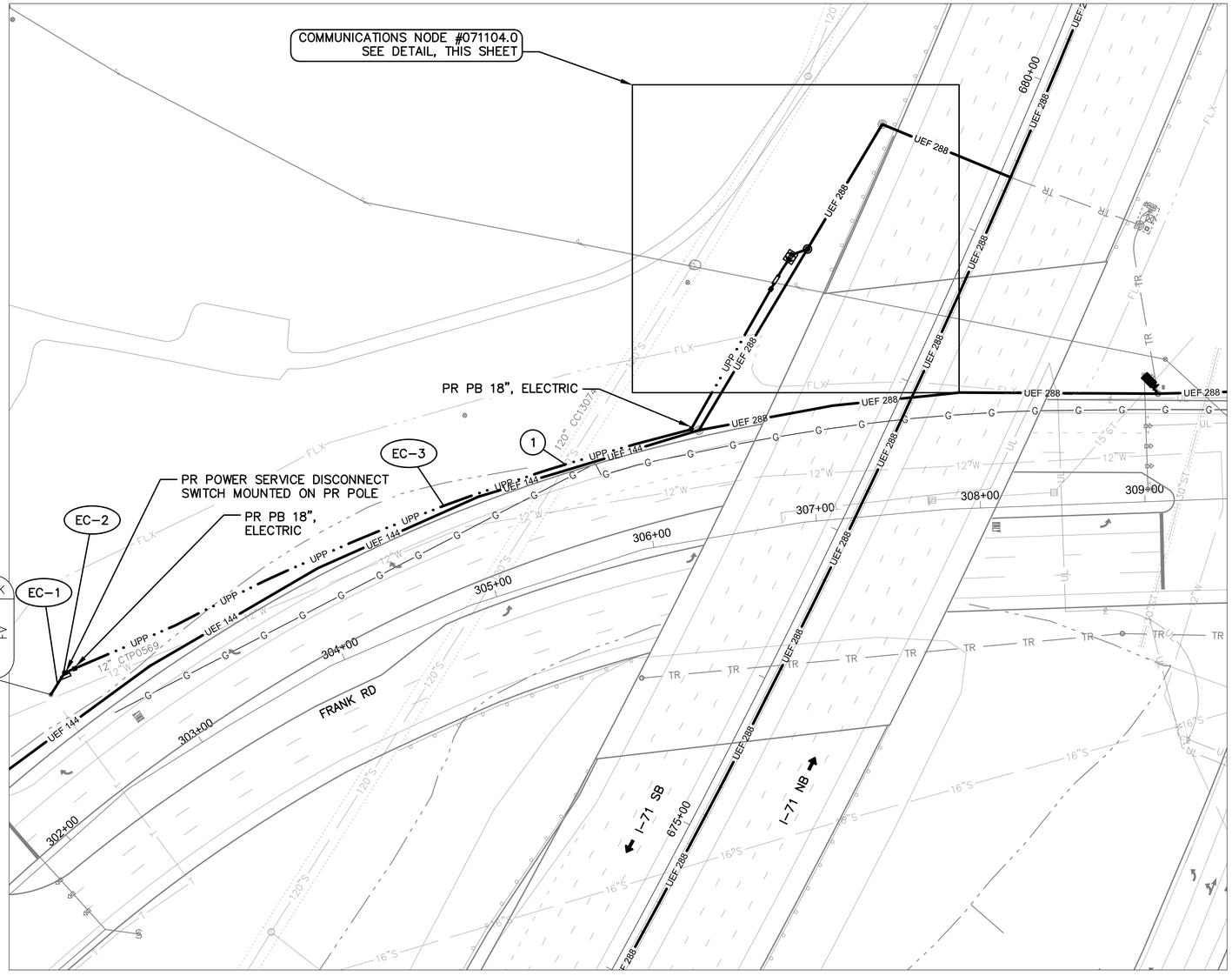
CIP: 540007-100012
PID NUMBER: 99733

I-71 BETWEEN STA. 561+00 AND 567+00
NODE #270055.0

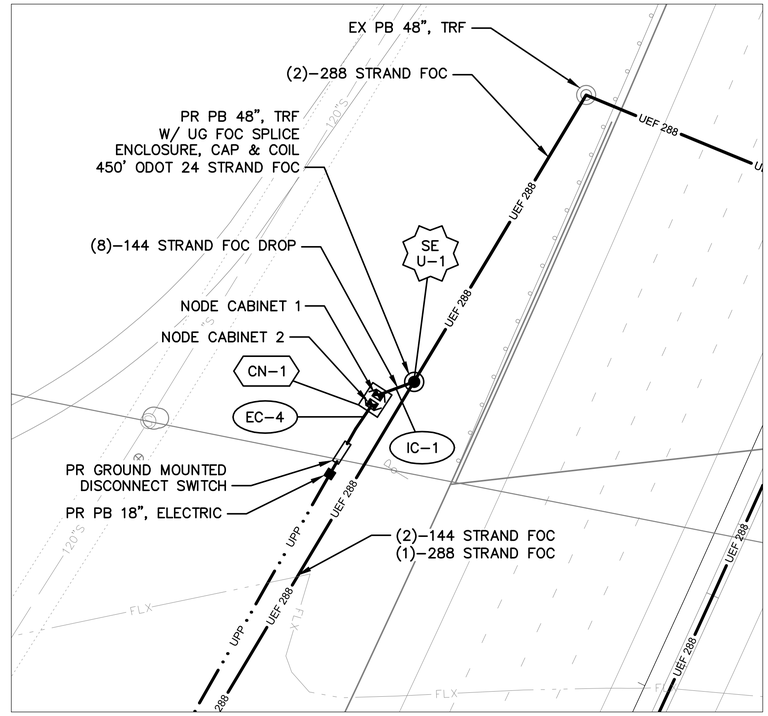
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E - FINAL SUBMITTAL

570
915

J:\Jobs\63721 CTSS Phase E\TECHPROD\Sheets\CTSS_PhE_TrunkALL_N_IC_QUANTITIES.dwg ~ I-71 at I-270 (S) _Q4 layout ~ last saved by: gburch 09/06/2018 02:04pm ~ printed 09/18/2018 10:49am PSLTS: 1 LTS: 1 CAS: 1:1

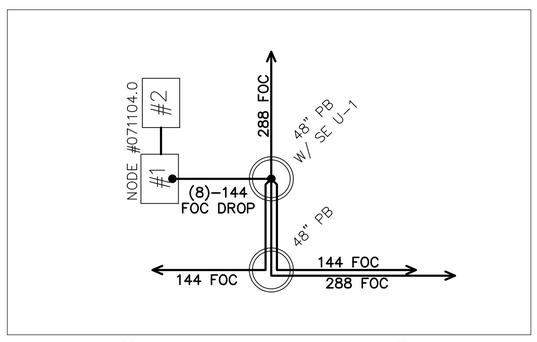


I-71 BETWEEN STATION 674+00 AND 680+50



DETAIL - COMMUNICATIONS NODE #071104.0

0 20 40
HORIZONTAL
SCALE IN FEET



CABLE SCHEMATIC - NODE #071104.0
NOT TO SCALE

NOTES:

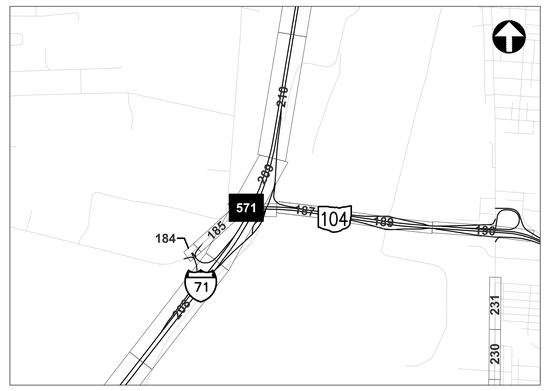
1. SEE SHEET 572 FOR QUANTITIES.
2. SEE SHEETS 629, 864, 865 & 866 FOR COMMUNICATION DETAILS.
3. SEE SHEET 186 FOR FRANK RD INTERCONNECT PLAN.
4. SEE SHEET 209 FOR I-71 INTERCONNECT PLAN.
5. SEE SHEET 339 FOR POWER SERVICE DETAILS.
6. LIMITED ACCESS RIGHT OF WAY IS LOCATED OUTSIDE OF THE EXTENT OF VIEWS SHOWN ABOVE.

(#) EXISTING UTILITY CROSSING. SEE UTILITY CROSSING INFO SHEET 326.

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CITY OF COLUMBUS UTILITY LEGEND

- ☒ SEWER
- ☒ WATER
- ☒ POWER
- ☐ LIGHTING



REFER TO SHEET 12 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

3378-E

0 40 80
HORIZONTAL
SCALE IN FEET

CIP: 540007-100012
PID NUMBER: 99733

COMMUNICATIONS NODE PLAN
I-71 BETWEEN STA. 674+00 AND 680+50, NODE #071104.0

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

571
915

J:\Jobs\63721 ctss phase e\TECHPROD\Sheets\CTSS_PhE_Trunk1_NODE_071104.0.dwg – NODE_071104.0 layout – last saved by: gburch 06/18/2018 09:07am – printed 09/12/2018 06:22am PSLTS: 1 LTS: 1 CAS: 1:1

ESTIMATED QUANTITIES

SHEET NO.	REFERENCE NO.	LOCATION	STATION		625	625	625	625	625	625	625	625	625	632	632	632	632	632	632	632	632	633	633	633
					CONDUIT, 2", AS PER PLAN	CONDUIT, 3", AS PER PLAN	CONDUIT, 4", AS PER PLAN	DISTRIBUTION CABLE, NO. 2	GROUND ROD	POWER SERVICE, TYPE C, AS PER PLAN	PULL BOX, 18", 725.08, AS PER PLAN	PULL BOX, CONCRETE 48", AS PER PLAN	TRENCH, 36" DEEP, AS PER PLAN	INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 144 STRAND	INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 24 STRAND	INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 288 STRAND	INTERCONNECT CABLE, MISC.: FIBER OPTIC FUSION SPLICE	INTERCONNECT, MISC.: DUAL PANEL ASSEMBLY, 24 FIBER, 1 RU, PRE-TERMINATED	INTERCONNECT, MISC.: PRE-TERMINATED FIBER OPTIC DROP CABLE, 144 STRAND, 150FT	INTERCONNECT, MISC.: SPLICE ENCLOSURE, CLAMSHELL, 288 SPLICE	INTERCONNECT, MISC.: TERMINATION PANEL, 288 FIBER, 4 RU	MESSENGER WIRE, 7 STRAND, 1/4" DIAMETER WITH ACCESSORIES, AS PER PLAN	CONTROLLER ITEM, MISC.: COMMUNICATIONS NODE	CONTROLLER ITEM, MISC.: FIBER OPTIC ETHERNET TRANSCEIVER, SHORT RANGE	CONTROLLER ITEM, MISC.: LAYER 3 ETHERNET SWITCH, ENVIRONMENTALLY HARDENED
			FROM	TO	FT	FT	FT	FT	EACH	EACH	EACH	EACH	FT	FT	FT	FT	EACH	EACH	EACH	EACH	EACH	FT	EACH	EACH	EACH
I-71 BETWEEN STA. 674+00 AND 680+50, NODE #071104.0																									
571	EC-1	SR-104	302+44, 74' LT	302+52, 80' LT				16														16			
571	EC-2	SR-104	302+52, 80' LT					35	1	1															
571	EC-3	SR-104/I-71	302+52, 80' LT	678+14, 99' LT		630		1,890			2		630												
571	EC-4	I-71	678+14, 99' LT	678+39, 96' LT	22			66			1														
571	CN-1	I-71	678+39, 96' LT					30	2									1			4		1	5	1
571	IC-1	I-71	678+39, 96' LT	678+48, 88' LT			20						10						8						
571	SE U-1	I-71	678+48, 88' LT									1		150	600	150	1,152			4					
SHEET TOTAL					22	630	20	2,037	3	1	3	1	640	150	600	150	1,152	1	8	4	4	16	1	5	1

AERIAL SAG: 1.5% AERIAL SAG IS INCLUDED IN THE QUANTITIES FOR ANY AERIAL FIBER OR CABLE ITEMS.

3378-E

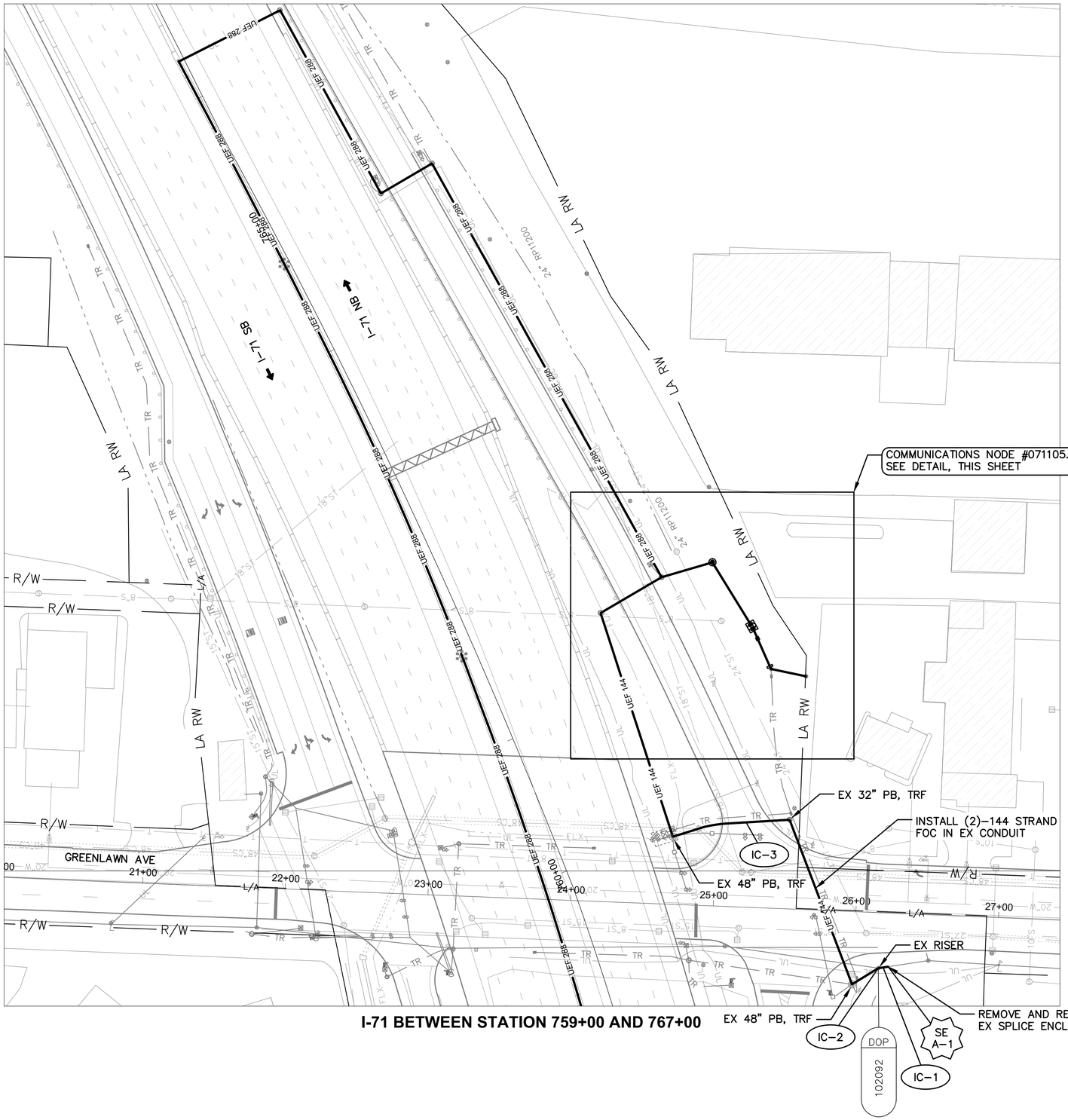
CIP: 540007-100012
PID NUMBER: 99733

I-71 BETWEEN STA. 674+00 AND 680+50
NODE #071104.0

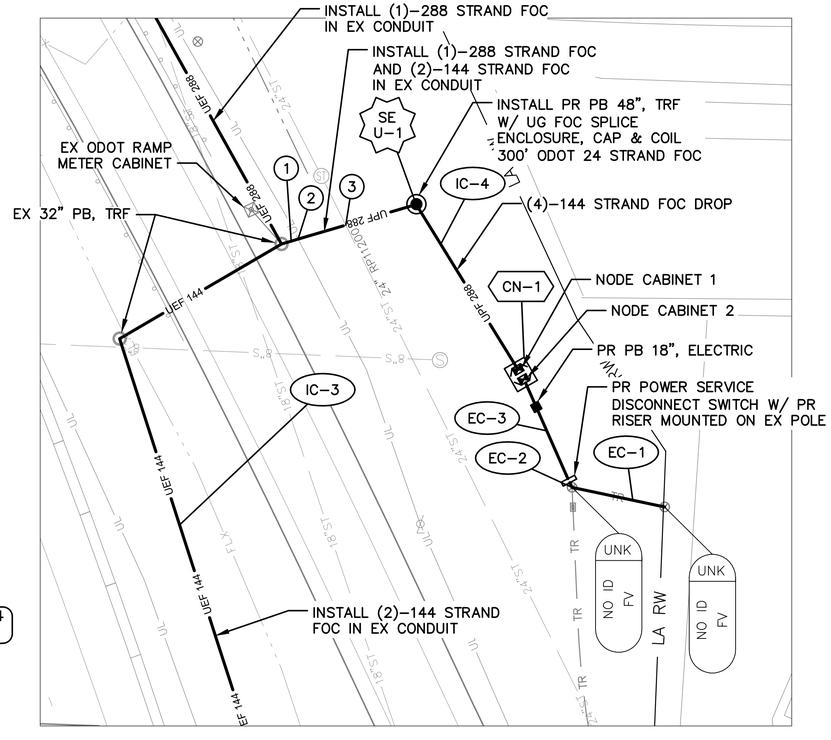
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E - FINAL SUBMITTAL

572
915

J:\Jobs\63721 CTSS Phase E\TECHPROD\Sheets\CTSS_PhE_TrunkALL_N_IC_QUANTITIES.dwg - I-71 at SR-104 _Q5 layout ~ last saved by: gburch 09/06/2018 02:04pm ~ printed 09/18/2018 10:50am PSLTS: 1 LTS: 1 CAS: 1:1



I-71 BETWEEN STATION 759+00 AND 767+00



DETAIL - COMMUNICATIONS NODE #071105.4

0 20 40

HORIZONTAL
SCALE IN FEET

NOTES:

1. SEE SHEETS 574 & 575 FOR QUANTITIES.
2. SEE SHEET 629, 836, 867 & 868 FOR COMMUNICATION DETAILS.
3. SEE SHEET 212 FOR I-71 INTERCONNECT PLAN.
4. SEE SHEET 340 FOR POWER SERVICE DETAILS.

(#) EXISTING UTILITY CROSSING. SEE UTILITY CROSSING INFO SHEET 326.

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CITY OF COLUMBUS UTILITY LEGEND

- SEWER
- WATER
- POWER
- LIGHTING



REFER TO SHEET 12 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

3378-E

0 40 80
HORIZONTAL
SCALE IN FEET

CIP: 540007-100012
PID NUMBER: 99733

COMMUNICATIONS NODE PLAN
I-71 BETWEEN STA. 760+00 AND 767+00, NODE #071105.4

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E - FINAL SUBMITTAL

573
915

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ESTIMATED QUANTITIES

SHEET NO.	REFERENCE NO.	LOCATION	STATION		202	625	625	625	625	625	625	625	625	632	632	632	632	632	632	632	632	632	632
					EXISTING CONDUIT CLEANED, AS PER PLAN	CONDUIT, 2", AS PER PLAN	CONDUIT, 4", AS PER PLAN	DISTRIBUTION CABLE, NO. 6	GROUND ROD	POWER SERVICE, TYPE D, AS PER PLAN	PULL BOX, 18", 725.08, AS PER PLAN	PULL BOX, CONCRETE 48", AS PER PLAN	TRENCH, 36" DEEP, AS PER PLAN	CONDUIT RISER, 2", 725.051, AS PER PLAN	INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 144 STRAND	INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 24 STRAND	INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 288 STRAND	INTERCONNECT CABLE, MISC.: FIBER OPTIC FUSION SPLICE	INTERCONNECT CABLE, MISC.: OVERLASH TO EXISTING INTERCONNECT	INTERCONNECT, MISC.: DUAL PANEL ASSEMBLY, 24 FIBER, 1 RU, PRE-TERMINATED	INTERCONNECT, MISC.: PRE-TERMINATED FIBER OPTIC DROP CABLE, 144 STRAND, 150FT	INTERCONNECT, MISC.: SPLICE ENCLOSURE, CLAMSHELL, 288 SPLICE	INTERCONNECT, MISC.: SPLICE ENCLOSURE, DOME, 800 SPLICE	INTERCONNECT, MISC.: TERMINATION PANEL, 288 FIBER, 4 RU
			FROM	TO	FT	FT	FT	FT	EACH	EACH	EACH	EACH	FT	EACH	FT	FT	FT	EACH	FT	EACH	EACH	EACH	EACH
I-71 BETWEEN STA. 760+00 AND 767+00, NODE #071105.4																							
573	SE A-1	I-71	758+72, 193' RT												150			300					1	
573	IC-1	I-71	758+72, 193' RT	758+73, 186' RT											14				7					
573	IC-2	I-71	758+73, 186' RT	761+58, 177' RT	480										960									
573	IC-3	I-71	758+73, 186' RT												70									
573	EC-1	I-71	760+63, 206' RT	760+76, 186' RT				43																
573	EC-2	I-71	760+76, 186' RT					35	1	1				1										
573	EC-3	I-71	760+76, 186' RT	761+07, 185' RT		32		96			1		32											
573	CN-1	I-71	761+07, 185' RT					30	2												1			2
573	IC-4	I-71	761+07, 185' RT	761+58, 177' RT			102						51									4		
573	SE U-1	I-71	761+58, 177' RT									1				300	75	576					2	
SHEET TOTAL					480	32	102	204	3	1	1	1	83	1	1,194	300	75	876	7	1	4	2	1	2

AERIAL SAG: 1.5% AERIAL SAG IS INCLUDED IN THE QUANTITIES FOR ANY AERIAL FIBER OR CABLE ITEMS.

3378-E

CIP: 540007–100012
PID NUMBER: 99733

1 OF 2 – I–71 BETWEEN STA. 760+00 AND 767+00
NODE #071105.4

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

574
915

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ESTIMATED QUANTITIES

SHEET NO.	REFERENCE NO.	LOCATION	STATION		632	633	633	633																
					MESSENGER WIRE, 7 STRAND, 1/4" DIAMETER WITH ACCESSORIES, AS PER PLAN	CONTROLLER ITEM, MISC.: COMMUNICATIONS NODE	CONTROLLER ITEM, MISC.: FIBER OPTIC ETHERNET TRANSCEIVER, SHORT RANGE	CONTROLLER ITEM, MISC.: LAYER 3 ETHERNET SWITCH, ENVIRONMENTALLY HARDENED																
			FROM	TO	FT	EACH	EACH	EACH																
I-71 BETWEEN STA. 760+00 AND 767+00, NODE #071105.4																								
573	SE A-1	I-71	758+72, 193' RT																					
573	IC-1	I-71	758+72, 193' RT	758+73, 186' RT																				
573	IC-2	I-71	758+73, 186' RT	761+58, 177' RT																				
573	IC-3	I-71	758+73, 186' RT																					
573	EC-1	I-71	760+63, 206' RT	760+76, 186' RT	43																			
573	EC-2	I-71	760+76, 186' RT																					
573	EC-3	I-71	760+76, 186' RT	761+07, 185' RT																				
573	CN-1	I-71	761+07, 185' RT			1	5	1																
573	IC-4	I-71	761+07, 185' RT	761+58, 177' RT																				
573	SE U-1	I-71	761+58, 177' RT																					
SHEET TOTAL					43	1	5	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

AERIAL SAG: 1.5% AERIAL SAG IS INCLUDED IN THE QUANTITIES FOR ANY AERIAL FIBER OR CABLE ITEMS.

3378-E

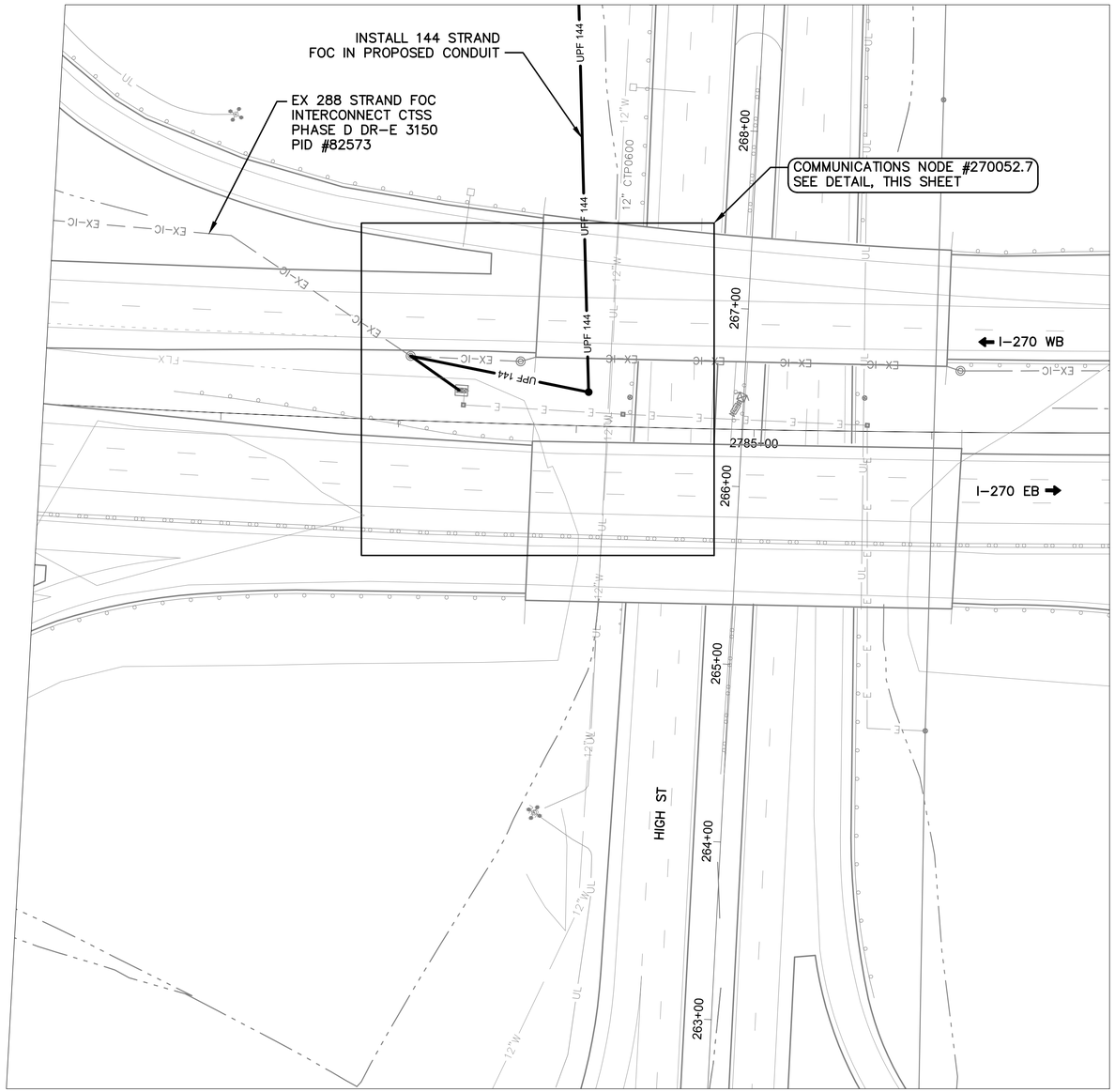
CIP: 540007–100012
PID NUMBER: 99733

2 OF 2 – I–71 BETWEEN STA. 760+00 AND 767+00
NODE #071105.4

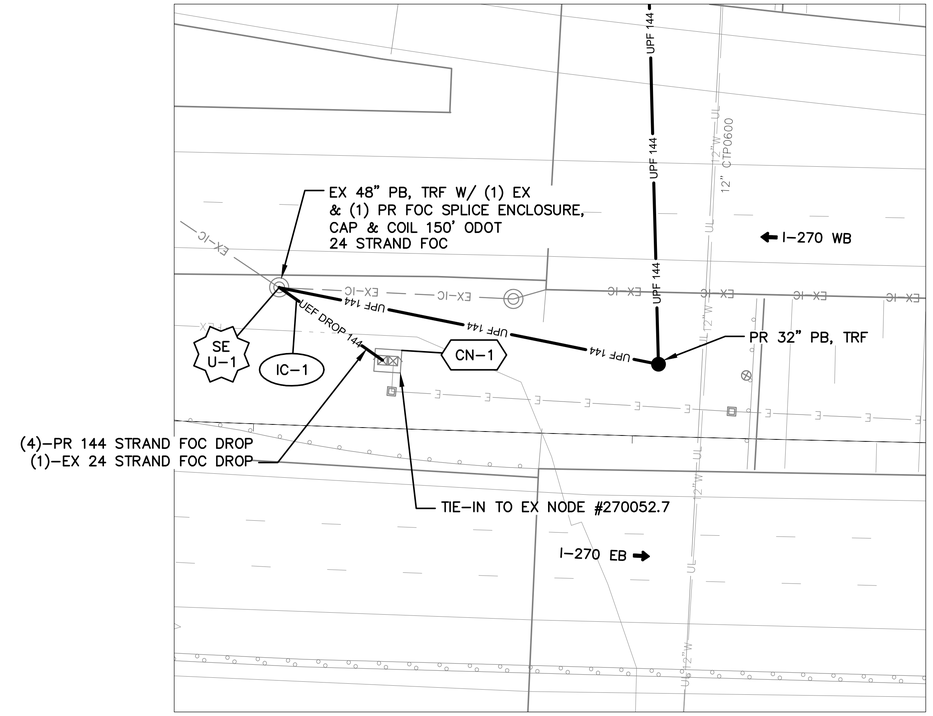
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

575
915

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I-270 BETWEEN STATION 2783+00 AND 2789+00



DETAIL - COMMUNICATIONS NODE #270052.7

0 20 40
HORIZONTAL
SCALE IN FEET

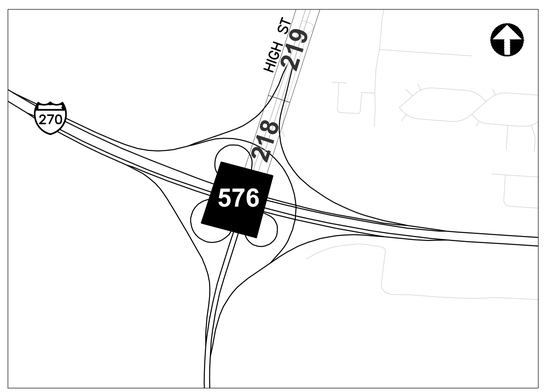
NOTES:

1. SEE SHEET 577 FOR QUANTITIES.
2. SEE SHEETS 628, 908 & 909 FOR COMMUNICATION DETAILS.
3. SEE SHEET 217 FOR INTERCONNECT PLAN.
4. LIMITED ACCESS RIGHT OF WAY IS LOCATED OUTSIDE OF THE EXTENT OF VIEW SHOWN ABOVE.

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- ☐ SEWER
- ☒ WATER
- ☒ POWER
- ☒ LIGHTING



REFER TO SHEET 12 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

0 40 80
HORIZONTAL
SCALE IN FEET

CIP: 540007–100012
PID NUMBER: 99733

COMMUNICATIONS NODE PLAN
I–270 BETWEEN STA. 2783+00 AND 2789+00, NODE #270052.7

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

576
915

3378-E

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ESTIMATED QUANTITIES

SHEET NO.	REFERENCE NO.	LOCATION	STATION		202	632	632	632	632	632	632	632	632	633										
					EXISTING CONDUIT CLEANED, AS PER PLAN	INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 144 STRAND	INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 24 STRAND	INTERCONNECT CABLE, MISC.: FIBER OPTIC FUSION SPLICE	INTERCONNECT, MISC.: PRE-TERMINATED FIBER OPTIC DROP CABLE, 144 STRAND, 150FT	INTERCONNECT, MISC.: SPLICE ENCLOSURE, CLAMSHELL, 288 SPLICE	INTERCONNECT, MISC.: SPLICE ENCLOSURE, DOME, 800 SPLICE	INTERCONNECT, MISC.: TERMINATION PANEL, 144 FIBER, 4 RU	INTERCONNECT, MISC.: TERMINATION PANEL, 288 FIBER, 4 RU	CONTROLLER ITEM, MISC.: FIBER OPTIC ETHERNET TRANSCEIVER, SHORT RANGE									
			FROM	TO	FT	FT	FT	EACH	EACH	EACH	EACH	EACH	EACH	EACH										
I-270 BETWEEN STA. 2783+00 AND 2789+00, NODE #270052.7																								
576	CN-1	HIGH ST	2786+67, 18' RT									2	1	2										
576	IC-1	HIGH ST	2786+67, 18' RT	2786+95, 36' RT	33				4															
576	SE U-1	HIGH ST	2786+95, 36' RT			75	150	432		1	1													
576	IC-2	HIGH ST	2786+95, 36' RT																					
SHEET TOTAL					33	75	150	432	4	1	1	2	1	2	-	-	-	-	-	-	-	-	-	-

AERIAL SAG: 1.5% AERIAL SAG IS INCLUDED IN THE QUANTITIES FOR ANY AERIAL FIBER OR CABLE ITEMS.

3378-E

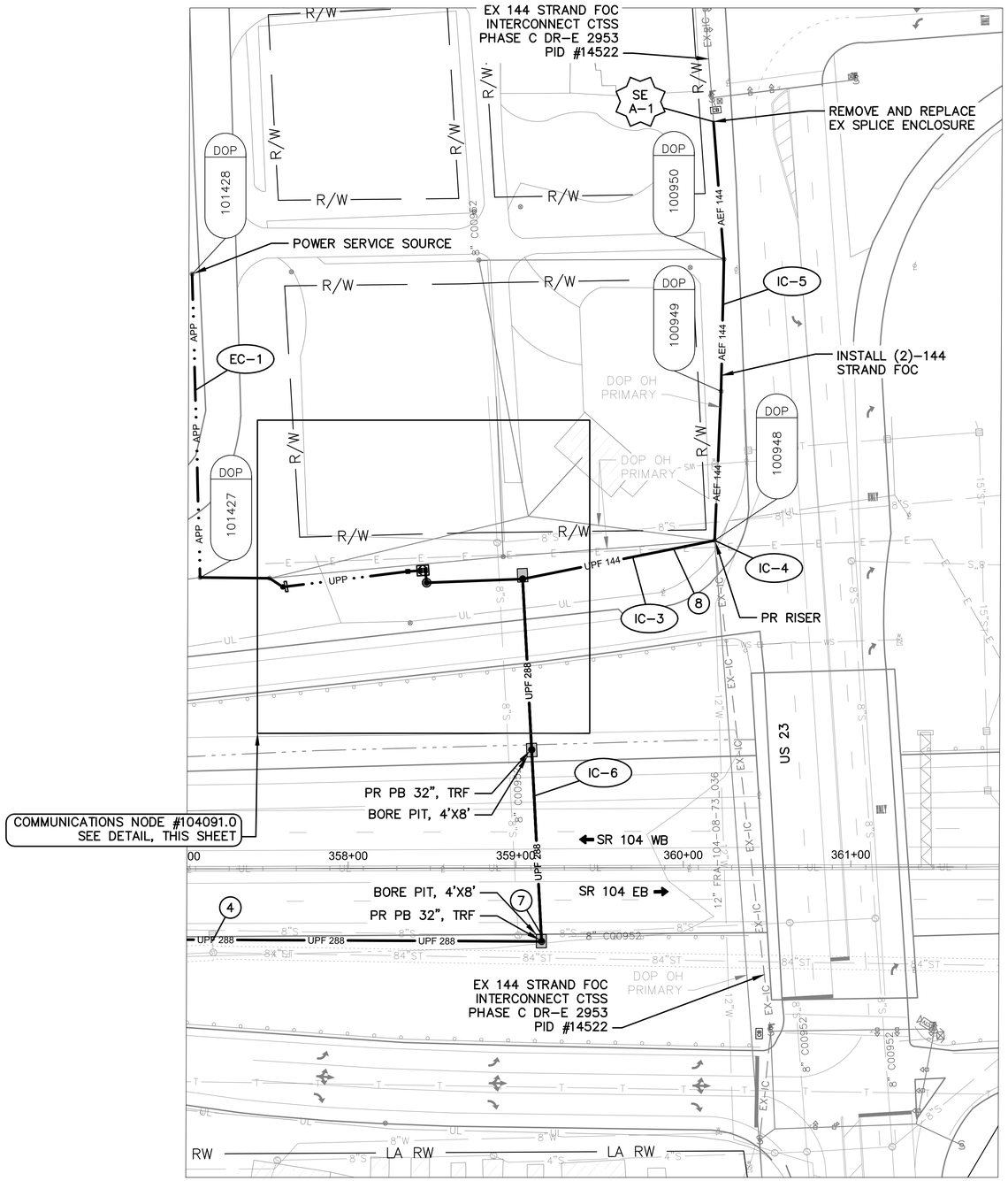
CIP: 540007-100012
PID NUMBER: 99733

I-270 BETWEEN STA. 2783+00 AND 2789+00
NODE #270052.7

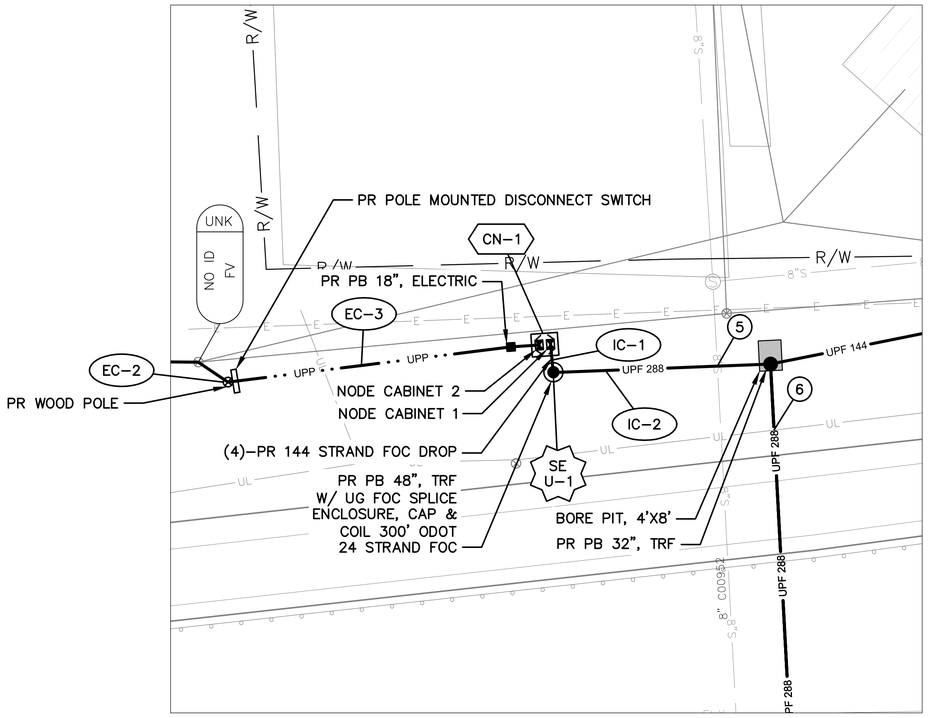
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

577
915

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SR 104 BETWEEN STATION 357+00 AND STA 362+00



DETAIL - COMMUNICATIONS NODE #104091.0

0 20 40
HORIZONTAL
SCALE IN FEET

NOTES:

1. SEE SHEETS 579 & 580 FOR QUANTITIES.
2. SEE SHEETS 629, 829, 874 & 875 FOR COMMUNICATION DETAILS.
3. SEE SHEET 190 FOR SR-104 INTERCONNECT PLAN.
4. SEE SHEET 341 FOR POWER SERVICE DETAILS.
5. SEE SHEET 190 FOR UTILITY CROSSINGS 1-3.
6. LIMITED ACCESS RIGHT OF WAY IS LOCATED OUTSIDE OF THE EXTENT OF VIEW SHOWN ABOVE.

(#) EXISTING UTILITY CROSSING. SEE UTILITY CROSSING INFO SHEET 326.

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CITY OF COLUMBUS UTILITY LEGEND

☒	SEWER
☒	WATER
☐	POWER
☒	LIGHTING



REFER TO SHEET 12 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

0 40 80
HORIZONTAL
SCALE IN FEET

CIP: 540007-100012
PID NUMBER: 99733

COMMUNICATIONS NODE PLAN
SR-104 BTW STA. 357+00 AND STA. 362+00, NODE #104091.0

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E - FINAL SUBMITTAL

578
915

3378-E

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ESTIMATED QUANTITIES

SHEET NO.	REFERENCE NO.	LOCATION	STATION		625	625	625	625	625	625	625	625	625	625	625	625	632	632	632	632	632	632	632
					CONDUIT, 2", AS PER PLAN	CONDUIT, 3", AS PER PLAN	CONDUIT, 4", AS PER PLAN	CONDUIT, CONCRETE ENCASED, 2-3", 725.05, AS PER PLAN	CONDUIT, JACKED OR DRILLED, 3", AS PER PLAN	DISTRIBUTION CABLE, NO. 3	DISTRIBUTION CABLE, NO. 6	GROUND ROD	POWER SERVICE, TYPE E, AS PER PLAN	PULL BOX, 18", 725.08, AS PER PLAN	PULL BOX, CONCRETE 32", AS PER PLAN	PULL BOX, CONCRETE 48", AS PER PLAN	TRENCH, 36" DEEP, AS PER PLAN	CONDUIT RISER, 2", 725.051, AS PER PLAN	INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 144 STRAND	INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 24 STRAND	INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 288 STRAND	INTERCONNECT CABLE, MISC.: FIBER OPTIC FUSION SPLICE	INTERCONNECT CABLE, MISC.: OVERLASH TO EXISTING INTERCONNECT	INTERCONNECT, MISC.: DUAL PANEL ASSEMBLY, 24 FIBER, 1 RU, PRE-TERMINATED
			FROM	TO	FT	FT	FT	FT	FT	FT	FT	EACH	EACH	EACH	EACH	EACH	FT	EACH	FT	FT	FT	EACH	FT	EACH
SR-104 BETWEEN STA. 357+00 AND 362+00, NODE #104091.0																								
578	EC-1	SR-104	357+08, 355' LT	357+61, 168' LT						696														
578	EC-2	SR-104	357+61, 168' LT								105	1	1					1						
578	CN-1	SR-104	358+45, 178' LT								30	2												1
578	IC-1	SR-104	358+45, 178' LT	358+47, 170' LT			16										8							
578	SE U-1	SR-104	358+47, 170' LT													1			150	300	150	576		
578	IC-2	SR-104	358+47, 170' LT	359+04, 172' LT				57									57		114		57			
578	EC-3	SR-104	357+61, 168' LT	358+45, 178' LT	83						249			1			83							
578	IC-3	SR-104	359+04, 172' LT	360+19, 195' LT		117											117		234					
578	IC-6	SR-104	359+04, 172' LT	359+15, 44' RT					434						3						217			
578	IC-4	SR-104	360+19, 195' LT															1	70					
578	IC-5	SR-104	360+19, 195' LT	360+19, 445' LT															508				254	
578	SE A-1	SR-104	360+19, 445' LT																150			300		
SHEET TOTAL					83	117	16	57	434	696	384	3	1	1	3	1	265	2	1,226	300	424	876	254	1

AERIAL SAG: 1.5% AERIAL SAG IS INCLUDED IN THE QUANTITIES FOR ANY AERIAL FIBER OR CABLE ITEMS.

3378-E

CIP: 540007–100012
PID NUMBER: 99733

SR–104 BETWEEN STA. 357+00 AND 362+00
NODE #104091.0

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

579
915

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ESTIMATED QUANTITIES

SHEET NO.	REFERENCE NO.	LOCATION	STATION		632	632	632	632	632	633	633	633												
					INTERCONNECT, MISC.: PRE-TERMINATED FIBER OPTIC DROP CABLE, 144 STRAND, 150FT	INTERCONNECT, MISC.: SPLICE ENCLOSURE, CLAMSHELL, 288 SPLICE	INTERCONNECT, MISC.: SPLICE ENCLOSURE, DOME, 800 SPLICE	INTERCONNECT, MISC.: TERMINATION PANEL, 288 FIBER, 4 RU	MESSENGER WIRE, 7 STRAND, 1/4" DIAMETER WITH ACCESSORIES, AS PER PLAN	CONTROLLER ITEM, MISC.: COMMUNICATIONS NODE	CONTROLLER ITEM, MISC.: FIBER OPTIC ETHERNET TRANSCEIVER, SHORT RANGE	CONTROLLER ITEM, MISC.: LAYER 3 ETHERNET SWITCH, ENVIRONMENTALLY HARDENED											
			FROM	TO	EACH	EACH	EACH	EACH	FT	EACH	EACH	EACH												
SR-104 BETWEEN STA. 357+00 AND 362+00, NODE #104091.0																								
578	EC-1	SR-104	357+08, 355' LT	357+61, 168' LT					232															
578	EC-2	SR-104	357+61, 168' LT																					
578	CN-1	SR-104	358+45, 178' LT					2		1	5	1												
578	IC-1	SR-104	358+45, 178' LT	358+47, 170' LT	4																			
578	SE U-1	SR-104	358+47, 170' LT			2																		
578	IC-2	SR-104	358+47, 170' LT	359+04, 172' LT																				
578	EC-3	SR-104	357+61, 168' LT	358+45, 178' LT																				
578	IC-3	SR-104	359+04, 172' LT	360+19, 195' LT																				
578	IC-6	SR-104	359+04, 172' LT	359+15, 44' RT																				
578	IC-4	SR-104	360+19, 195' LT																					
578	IC-5	SR-104	360+19, 195' LT	360+19, 445' LT																				
578	SE A-1	SR-104	360+19, 445' LT				1																	
SHEET TOTAL					4	2	1	2	232	1	5	1	-	-	-	-	-	-	-	-	-	-	-	-

AERIAL SAG: 1.5% AERIAL SAG IS INCLUDED IN THE QUANTITIES FOR ANY AERIAL FIBER OR CABLE ITEMS.

3378-E

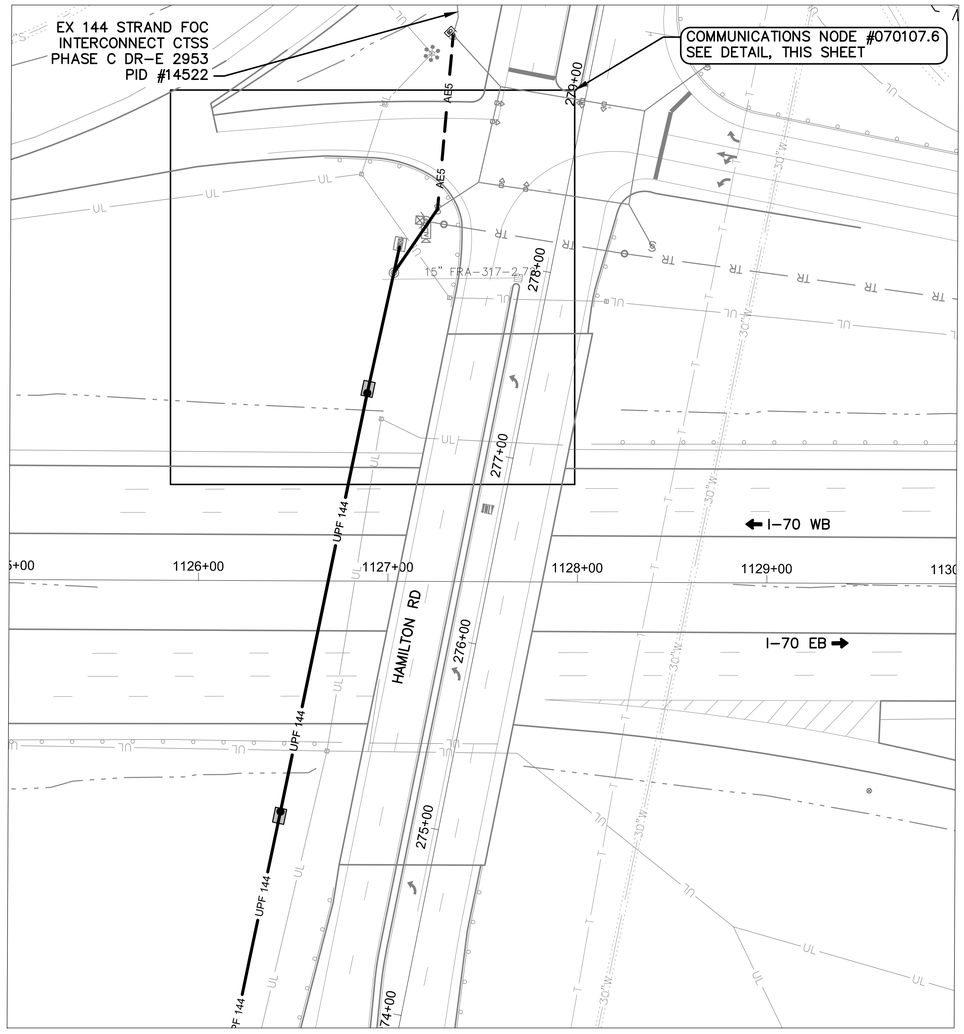
CIP: 540007-100012
PID NUMBER: 99733

SR-104 BETWEEN STA. 357+00 AND 362+00
NODE #104091.0

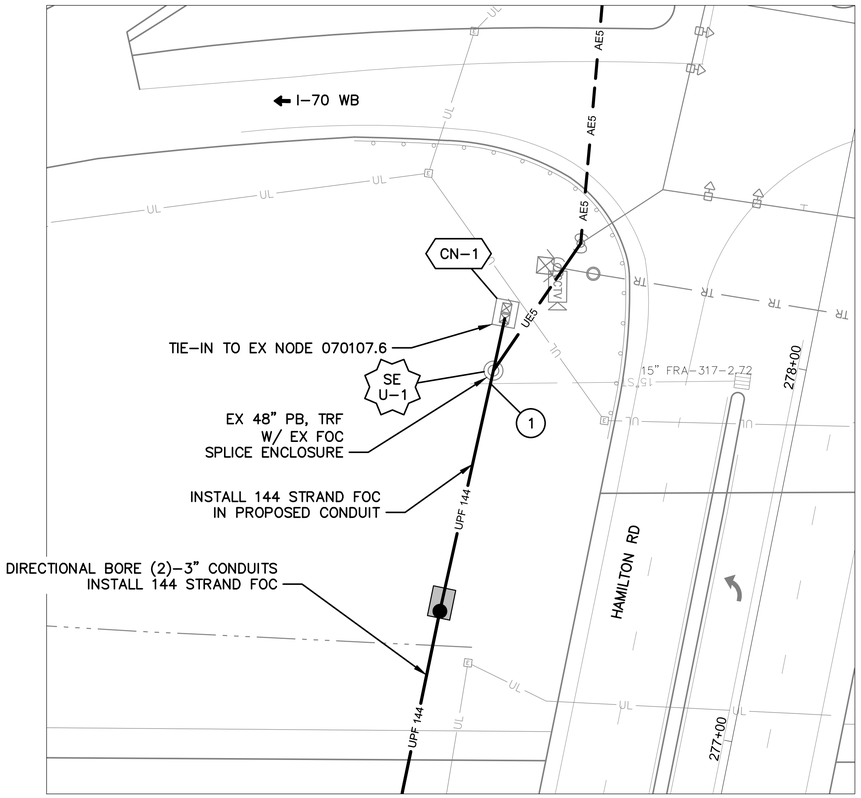
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

580
915

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I-70 BETWEEN STATION 1125+00 AND 1130+00



DETAIL - COMMUNICATIONS NODE #070107.6

0 20 40

HORIZONTAL
SCALE IN FEET

NOTES:

1. SEE SHEET 582 FOR QUANTITIES.
2. SEE SHEET 631, 862 & 863 FOR COMMUNICATION DETAILS.
3. SEE SHEET 236 FOR HAMILTON RD INTERCONNECT PLANS.
4. LIMITED ACCESS RIGHT OF WAY IS LOCATED OUTSIDE OF THE EXTENT OF VIEW SHOWN ABOVE.

(#) EXISTING UTILITY CROSSING. SEE UTILITY CROSSING INFO SHEET 326.

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CITY OF COLUMBUS UTILITY LEGEND

☒	SEWER
☒	WATER
☐	POWER
☒	LIGHTING



REFER TO SHEET 13 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

3378-E

0 40 80
HORIZONTAL
SCALE IN FEET

CIP: 540007-100012
PID NUMBER: 99733

COMMUNICATIONS NODE PLAN
I-70 BTW STA. 1125+00 AND STA. 1130+00, NODE #070107.6

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E - FINAL SUBMITTAL

581
915

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ESTIMATED QUANTITIES

SHEET NO.	REFERENCE NO.	LOCATION	STATION FROM	STATION TO	632 INTERCONNECT CABLE, MISC.: FIBER OPTIC FUSION SPLICE	632 INTERCONNECT, MISC.: SPLICE ENCLOSURE, CLAMSHELL, 288 SPLICE	633 CONTROLLER ITEM, MISC.: FIBER OPTIC ETHERNET TRANSCEIVER, SHORT RANGE	633 CONTROLLER ITEM, MISC.: LAYER 3 ETHERNET SWITCH, ENVIRONMENTALLY HARDENED																
					EACH	EACH	EACH	EACH																
I-70 BETWEEN STA. 1125+00 AND 1130+00, NODE #070107.6																								
581	SE U-1	I-70	278+12, 83' LT		144	1																		
581	CN-1	I-70	278+22, 83' LT				3	1																
SHEET TOTAL					144	1	3	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

AERIAL SAG: 1.5% AERIAL SAG IS INCLUDED IN THE QUANTITIES FOR ANY AERIAL FIBER OR CABLE ITEMS.

3378-E

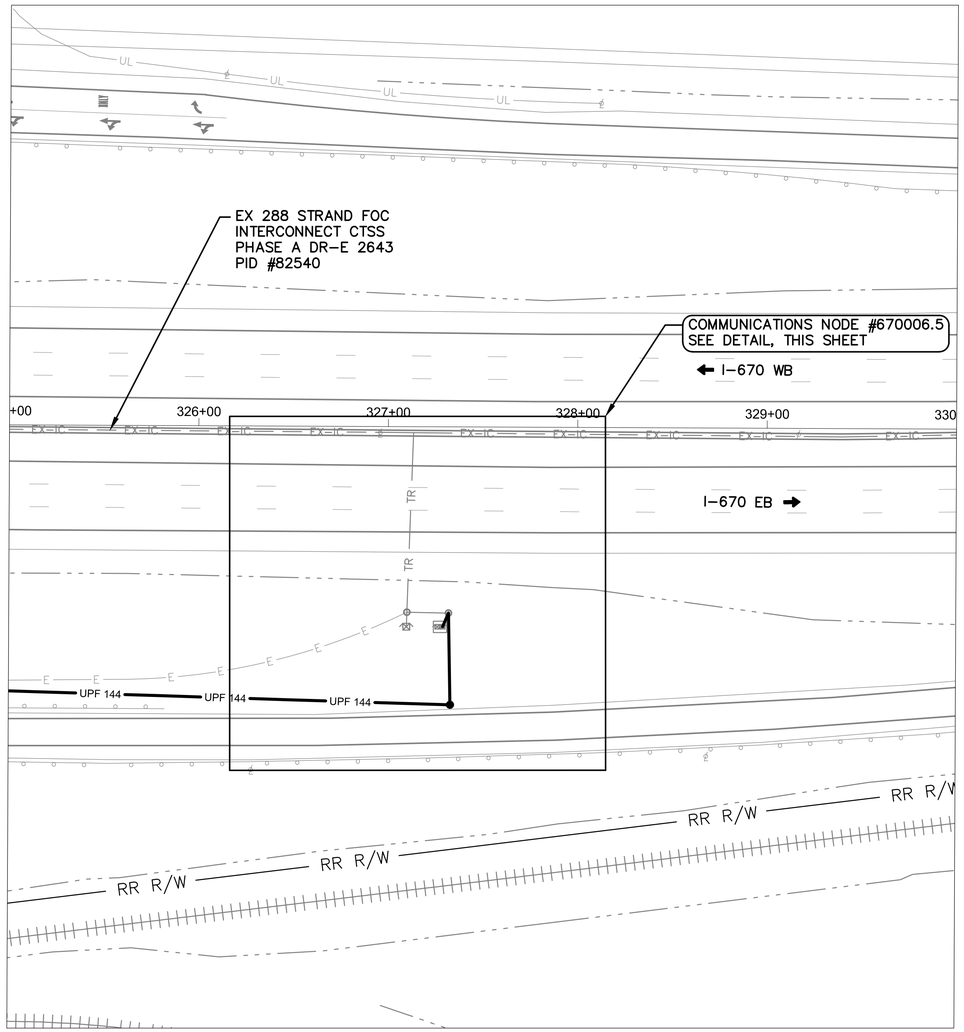
CIP: 540007–100012
PID NUMBER: 99733

I–70 BETWEEN STA. 1125+00 AND 1130+00
NODE #070107.6

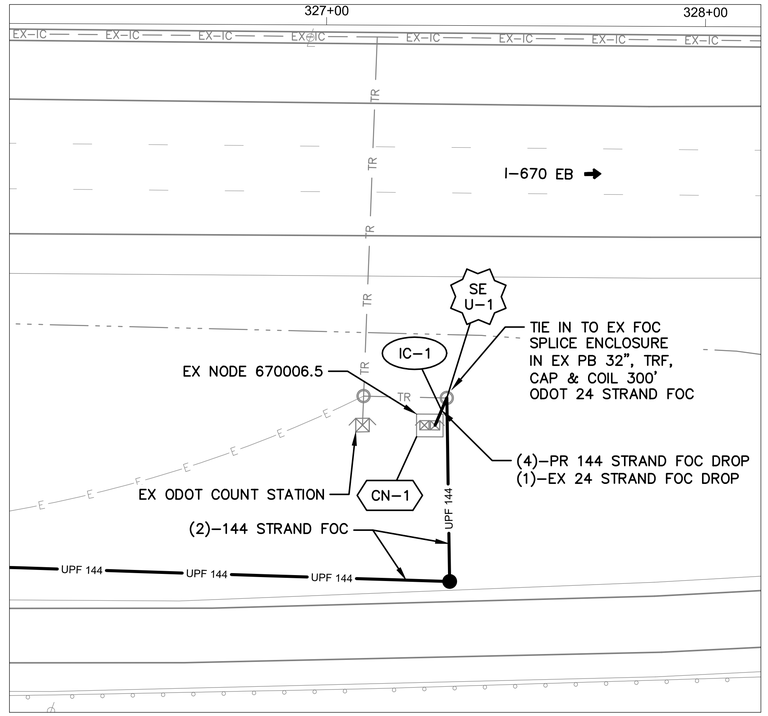
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

582
915

J:\Jobs\63721 CTSS Phase E\TECHPROD\Sheets\CTSS_PhE_TrunkALL_N_IC_QUANTITIES.dwg – I–70 at HAM_Q10 layout ~ last saved by: gburch 09/06/2018 02:04pm ~ printed 09/18/2018 10:54am PSLTS: 1 LTS: 1 CAS: 1:1



I-670 BETWEEN STATION 325+00 AND 330+00



DETAIL - COMMUNICATIONS NODE #670006.5

0 20 40
HORIZONTAL
SCALE IN FEET

NOTES:

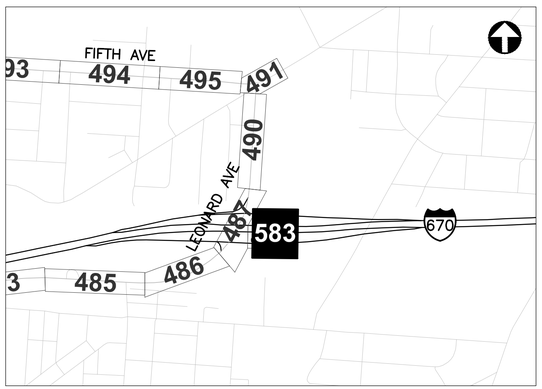
1. SEE SHEET 584 FOR QUANTITIES.
2. SEE SHEETS 912 & 913 FOR COMMUNICATION DETAILS.
3. SEE SHEET 488 FOR INTERCONNECT PLANS.
4. LIMITED ACCESS RIGHT OF WAY IS LOCATED OUTSIDE OF THE EXTENT OF VIEW SHOWN ABOVE.

(#) EXISTING UTILITY CROSSING. SEE UTILITY CROSSING INFO SHEET 326.

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CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 10 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

3378-E

HORIZONTAL SCALE IN FEET
0 40 80

CIP: 540007-100012
PID NUMBER: 99733

COMMUNICATIONS NODE PLAN
I-670 BTW STA. 325+00 AND STA. 330+00, NODE #670006.5

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

583
915

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ESTIMATED QUANTITIES

SHEET NO.	REFERENCE NO.	LOCATION	STATION		202	632	632	632	632	632	632	632	632	632	633										
					EXISTING CONDUIT CLEANED, AS PER PLAN	INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 144 STRAND	INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 24 STRAND	INTERCONNECT CABLE, MISC.: FIBER OPTIC FUSION SPLICE	INTERCONNECT, MISC.: DUAL PANEL ASSEMBLY, 24 FIBER, 1 RU, PRE-TERMINATED	INTERCONNECT, MISC.: PRE-TERMINATED FIBER OPTIC DROP CABLE, 144 STRAND, 150FT	INTERCONNECT, MISC.: SPLICE ENCLOSURE, CLAMSHELL, 288 SPLICE	INTERCONNECT, MISC.: SPLICE ENCLOSURE, DOME, 800 SPLICE	INTERCONNECT, MISC.: TERMINATION PANEL, 144 FIBER, 4 RU	INTERCONNECT, MISC.: TERMINATION PANEL, 288 FIBER, 4 RU	CONTROLLER ITEM, MISC.: FIBER OPTIC ETHERNET TRANSCEIVER, SHORT RANGE									
			FROM	TO	FT	FT	FT	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH									
I-670 BETWEEN STA. 325+00 AND 330+00, NODE #670006.5																									
583	CN-1	I-670	327+28, 106' RT						1				2	1	2										
583	IC-1	I-670	327+28, 106' RT	327+32, 98' RT	8					4															
583	SE U-1	I-670	327+32, 98' RT			150	300	600			1	1													
SHEET TOTAL					8	150	300	600	1	4	1	1	2	1	2	-	-	-	-	-	-	-	-	-	

AERIAL SAG: 1.5% AERIAL SAG IS INCLUDED IN THE QUANTITIES FOR ANY AERIAL FIBER OR CABLE ITEMS.

3378-E

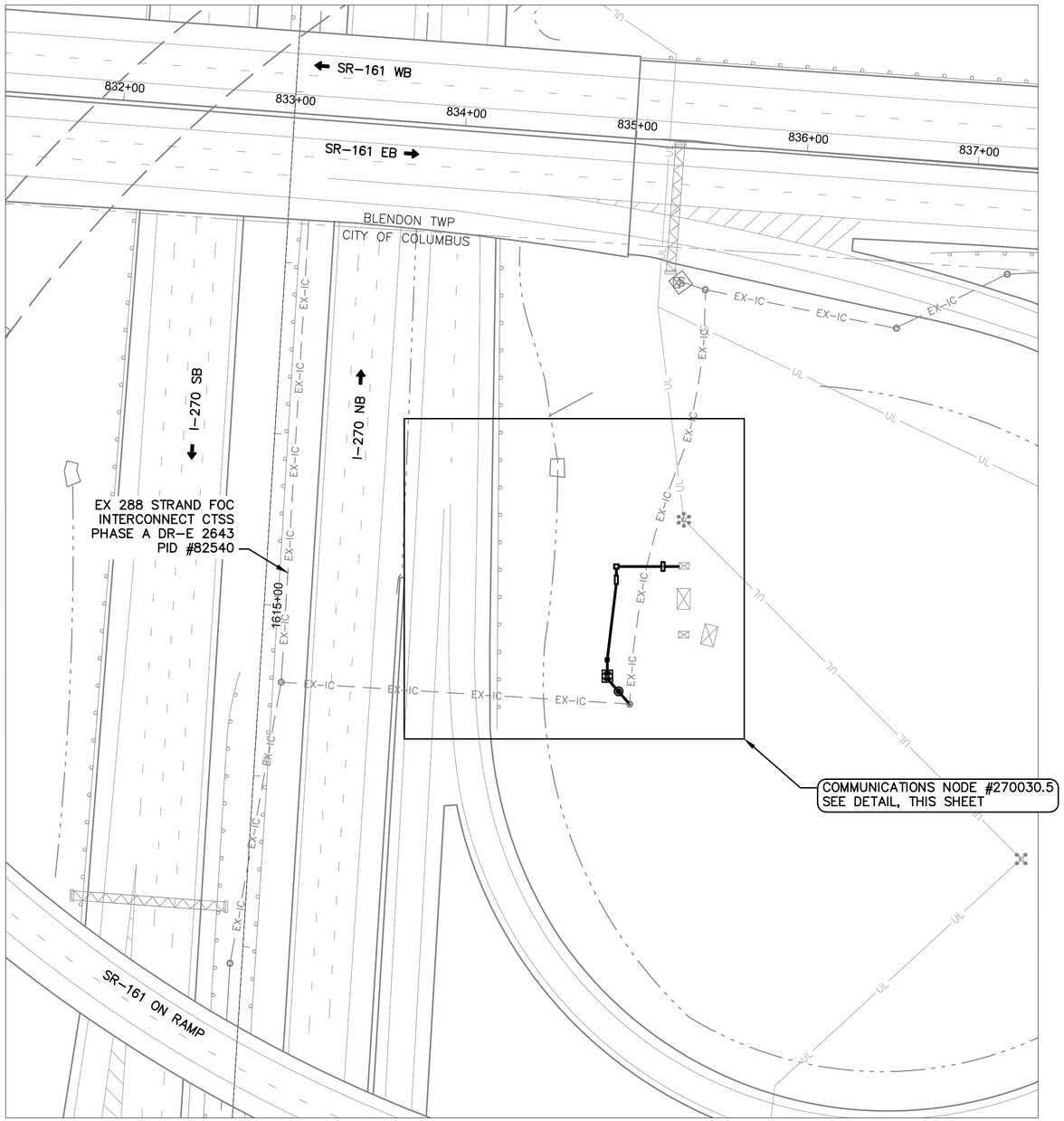
CIP: 540007-100012
PID NUMBER: 99733

I-670 BETWEEN STA. 325+00 AND 330+00
NODE #670006.5

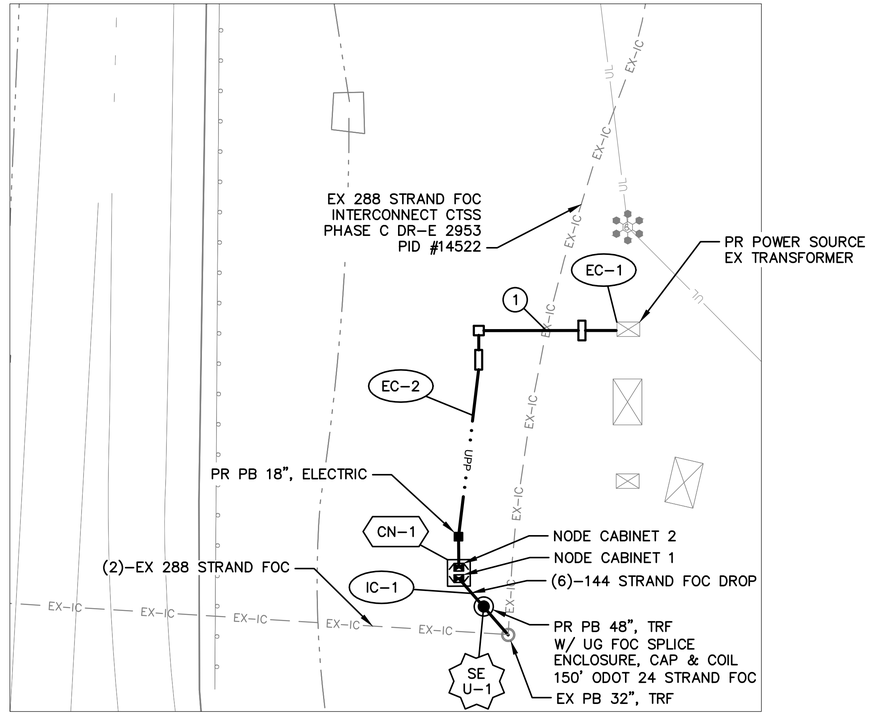
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E - FINAL SUBMITTAL

584
915

J:\Jobs\63721 CTSS Phase E\TECHPROD\Sheets\CTSS_PhE_TrunkALL_N_JC_QUANTITIES.dwg ~ I-670 at LEO_Q11 layout ~ last saved by: gburch 09/06/2018 02:04pm ~ printed 09/18/2018 10:54am PSLTS: 1 LTS: 1 CAS: 1:1



I-270 BETWEEN STATION 1611+50 AND 1618+00



DETAIL - COMMUNICATIONS NODE #270030.5

0 20 40
HORIZONTAL
SCALE IN FEET

NOTES:

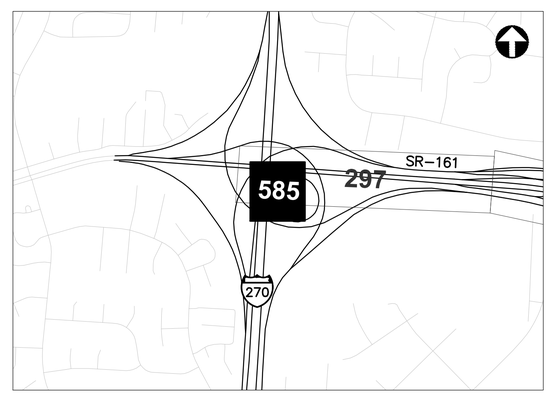
1. SEE SHEET 586 FOR QUANTITIES.
2. SEE SHEETS 626, 899, 900 & 901 FOR COMMUNICATION DETAILS.
3. SEE SHEET 297 FOR INTERCONNECT PLANS.
4. SEE SHEET 342 FOR POWER SERVICE DETAILS.
5. LIMITED ACCESS RIGHT OF WAY IS LOCATED OUTSIDE OF THE EXTENT OF VIEW SHOWN ABOVE.

(#) EXISTING UTILITY CROSSING. SEE UTILITY CROSSING INFO SHEET 326.

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- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 8 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

0 40 80
HORIZONTAL
SCALE IN FEET

CIP: 540007–100012
PID NUMBER: 99733

COMMUNICATIONS NODE PLAN
I–270 BETWEEN STA. 1611+50 AND 1618+00, NODE #270030.5

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

585
915

3378-E

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ESTIMATED QUANTITIES

SHEET NO.	REFERENCE NO.	LOCATION	STATION		625	625	625	625	625	625	625	625	632	632	632	632	632	632	632	633	633	633		
					CONDUIT, 2", AS PER PLAN	CONDUIT, 4", AS PER PLAN	DISTRIBUTION CABLE, NO. 6	GROUND ROD	POWER SERVICE, TYPE F, AS PER PLAN	PULL BOX, 18", 725.08, AS PER PLAN	PULL BOX, CONCRETE 48", AS PER PLAN	TRENCH, 36" DEEP, AS PER PLAN	INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 24 STRAND	INTERCONNECT CABLE, MISC.: FIBER OPTIC FUSION SPLICE	INTERCONNECT, MISC.: DUAL PANEL ASSEMBLY, 24 FIBER, 1 RU, PRE-TERMINATED	INTERCONNECT, MISC.: PRE-TERMINATED FIBER OPTIC DROP CABLE, 144 STRAND, 150FT	INTERCONNECT, MISC.: SPLICE ENCLOSURE, CLAMSHELL, 288 SPLICE	INTERCONNECT, MISC.: TERMINATION PANEL, 144 FIBER, 4 RU	INTERCONNECT, MISC.: TERMINATION PANEL, 288 FIBER, 4 RU	CONTROLLER ITEM, MISC.: COMMUNICATIONS NODE	CONTROLLER ITEM, MISC.: FIBER OPTIC ETHERNET TRANSCEIVER, SHORT RANGE	CONTROLLER ITEM, MISC.: LAYER 3 ETHERNET SWITCH, ENVIRONMENTALLY HARDENED		
			FROM	TO	FT	FT	FT	EACH	EACH	EACH	EACH	FT	FT	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH		
I-270 BETWEEN 1161+50 AND 1618+00, NODE #270030.5																								
585	EC-1	I-270	1614+62, 243' LT					1	1															
585	EC-2	I-270	1614+62, 243' LT	1615+29, 203' LT	102		408			1		102												
585	CN-1	I-270	1615+29, 203' LT				40	2							1			2	2	1	6	1		
585	IC-1	I-270	1615+29, 203' LT	1615+45, 217' LT		40						20				6								
585	SE U-1	I-270	1615+38, 210' LT								1		300	852			3							
SHEET TOTAL					102	40	448	3	1	1	1	122	300	852	1	6	3	2	2	1	6	1	-	-

AERIAL SAG: 1.5% AERIAL SAG IS INCLUDED IN THE QUANTITIES FOR ANY AERIAL FIBER OR CABLE ITEMS.

3378-E

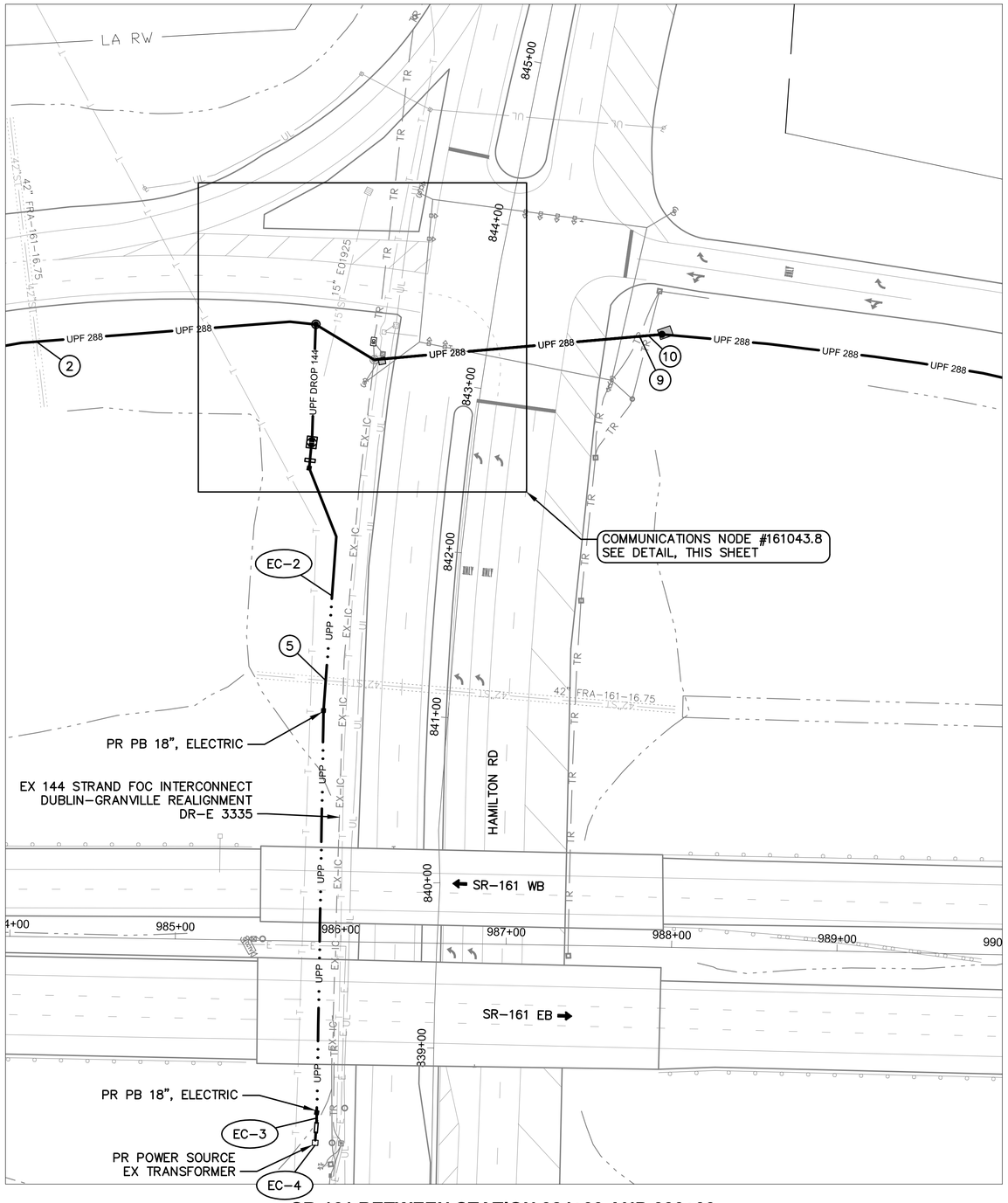
CIP: 540007–100012
PID NUMBER: 99733

I–270 BETWEEN STA. 1611+50 AND 1618+00
NODE #270030.5

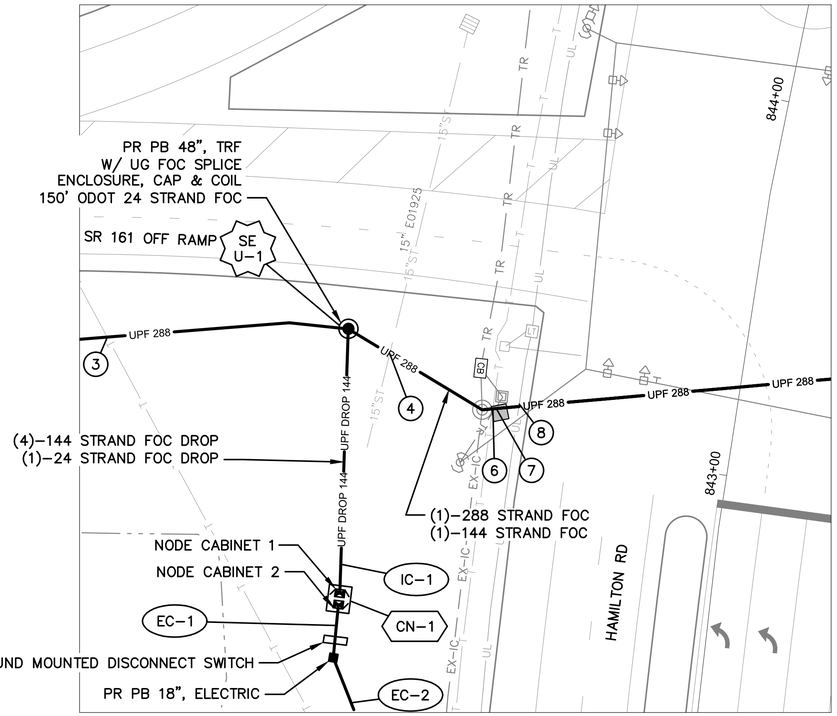
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

586
915

J:\Jobs\63721 CTSS Phase E\TECHPROD\Sheets\CTSS_PhE_TrunkALL_N_IC_QUANTITIES.dwg – I-270 at SR-161_Q12 layout ~ last saved by gburch 09/06/2018 02:04pm ~ printed 09/18/2018 10:55am PSLTS: 1 LTS: 1 CAS: 1:1



SR-161 BETWEEN STATION 984+00 AND 990+00



DETAIL - COMMUNICATIONS NODE #161043.8

0 20 40
HORIZONTAL
SCALE IN FEET

NOTES:

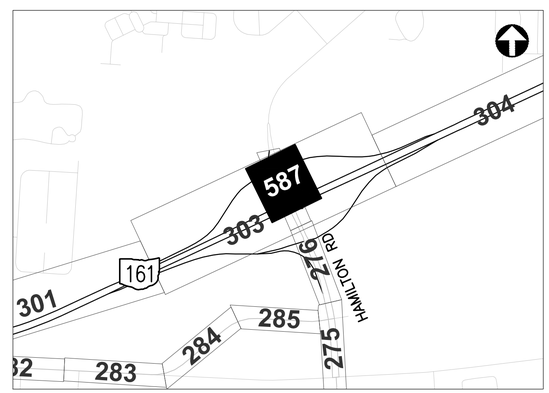
1. SEE SHEETS 588 & 589 FOR QUANTITIES.
2. SEE SHEETS 626, 876 & 877 FOR COMMUNICATION DETAILS.
3. SEE SHEET 277 FOR HAMILTON RD INTERCONNECT PLAN.
4. SEE SHEET 303 FOR SR-161 INTERCONNECT PLAN.
5. SEE SHEET 343 FOR POWER SERVICE DETAILS.
6. SEE SHEET 303 FOR UTILITY CROSSING 1.
7. LIMITED ACCESS RIGHT OF WAY IS LOCATED OUTSIDE OF THE EXTENT OF VIEW SHOWN ABOVE.

(#) EXISTING UTILITY CROSSING. SEE UTILITY CROSSING INFO SHEET 326.

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CITY OF COLUMBUS UTILITY LEGEND

- [X] SEWER
- [ ] WATER
- [ ] POWER
- [X] LIGHTING



REFER TO SHEET 8 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

0 40 80
HORIZONTAL
SCALE IN FEET

CIP: 540007-100012
PID NUMBER: 99733

COMMUNICATIONS NODE PLAN
SR-161 BETWEEN STA. 984+00 AND 990+00, NODE #161043.8

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E - FINAL SUBMITTAL

587
915

3378-E

J:\Jobs\163721 ctss phase e\TECHPROD\Sheets\CTSS_PhE_Trunk2_NODE_161_at_Hamilton.dwg ~ NODE_161043.8 layout ~ last saved by: gburch 09/05/2018 03:44pm ~ printed 09/12/2018 08:10am PSLTS: 1 LTS: 1 CAS: 1:1

ESTIMATED QUANTITIES

SHEET NO.	REFERENCE NO.	LOCATION	STATION		625 CONDUIT, 2", AS PER PLAN	625 CONDUIT, 3", AS PER PLAN	625 CONDUIT, 4", AS PER PLAN	625 DISTRIBUTION CABLE, NO. 4	625 GROUND ROD	625 POWER SERVICE, TYPE G, AS PER PLAN	625 PULL BOX, 18", 725.08, AS PER PLAN	625 PULL BOX, CONCRETE 48", AS PER PLAN	625 TRENCH, 36" DEEP, AS PER PLAN	632 INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 144 STRAND	632 INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 24 STRAND	632 INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 288 STRAND	632 INTERCONNECT CABLE, MISC.: FIBER OPTIC FUSION SPLICE	632 INTERCONNECT, MISC.: DUAL PANEL ASSEMBLY, 24 FIBER, 1 RU, PRE-TERMINATED	632 INTERCONNECT, MISC.: PRE-TERMINATED FIBER OPTIC DROP CABLE, 144 STRAND, 150FT	632 INTERCONNECT, MISC.: PRE-TERMINATED FIBER OPTIC DROP CABLE, 24 STRAND, 150FT	632 INTERCONNECT, MISC.: SPLICE ENCLOSURE, CLAMSHELL, 288 SPLICE	632 INTERCONNECT, MISC.: SPLICE ENCLOSURE, DOME, 800 SPLICE	632 INTERCONNECT, MISC.: TERMINATION PANEL, 144 FIBER, 4 RU	632 INTERCONNECT, MISC.: TERMINATION PANEL, 24 FIBER, 1 RU
			FROM	TO	FT	FT	FT	FT	EACH	EACH	EACH	EACH	FT	FT	FT	FT	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH
SR-161 BETWEEN STA. 984+00 AND 990+00, NODE #161043.8																									
587	SE U-1	SR-161	985+79, 373' LT									1		75	300	150	480					1	1		
587	IC-1	SR-161	985+79, 373' LT	985+77, 301' LT			140						70						4	1					
587	CN-1	SR-161	985+77, 301' LT					30	2									1						4	1
587	EC-1	SR-161	985+77, 301' LT	985+76, 286' LT	14			42			1		14												
587	EC-2	SR-161	985+76, 286' LT	985+87, 104' RT		393		1,179			1		393												
587	EC-3	SR-161	985+87, 104' RT	985+87, 122' RT	18			54			1		18												
587	EC-4	SR-161	985+87, 122' RT						1	1															
SHEET TOTAL					32	393	140	1,305	3	1	3	1	495	75	300	150	480	1	4	1	1	1	4	1

AERIAL SAG: 1.5% AERIAL SAG IS INCLUDED IN THE QUANTITIES FOR ANY AERIAL FIBER OR CABLE ITEMS.

3378-E

CIP: 540007–100012
PID NUMBER: 99733

SR–161 BETWEEN STA. 984+00 AND 990+00
NODE #161043.8

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

588
915

J:\Jobs\63721 CTSS Phase E\TECHPROD\Sheets\CTSS_PhE_TrunkALL_N_IJC_QUANTITIES.dwg – SR-161 at HAM_Q13 layout ~ last saved by: gburch 09/06/2018 02:04pm ~ printed 09/18/2018 10:56am PSLTS: 1 LTS: 1 CAS: 1:1

ESTIMATED QUANTITIES

SHEET NO.	REFERENCE NO.	LOCATION	STATION		633 CONTROLLER ITEM, MISC.: COMMUNICATIONS NODE	633 CONTROLLER ITEM, MISC.: FIBER OPTIC ETHERNET TRANSCEIVER, SHORT RANGE	633 CONTROLLER ITEM, MISC.: LAYER 3 ETHERNET SWITCH, ENVIRONMENTALLY HARDENED																
			FROM	TO	EACH	EACH	EACH																
SR-161 BETWEEN STA. 984+00 AND 990+00, NODE #161043.8																							
587	SE U-1	SR-161	985+79, 373' LT																				
587	IC-1	SR-161	985+79, 373' LT	985+77, 301' LT																			
587	CN-1	SR-161	985+77, 301' LT		1	6	1																
587	EC-1	SR-161	985+77, 301' LT	985+76, 286' LT																			
587	EC-2	SR-161	985+76, 286' LT	985+87, 104' RT																			
587	EC-3	SR-161	985+87, 104' RT	985+87, 122' RT																			
587	EC-4	SR-161	985+87, 122' RT																				
SHEET TOTAL					1	6	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

AERIAL SAG: 1.5% AERIAL SAG IS INCLUDED IN THE QUANTITIES FOR ANY AERIAL FIBER OR CABLE ITEMS.

CIP: 540007-100012
PID NUMBER: 99733

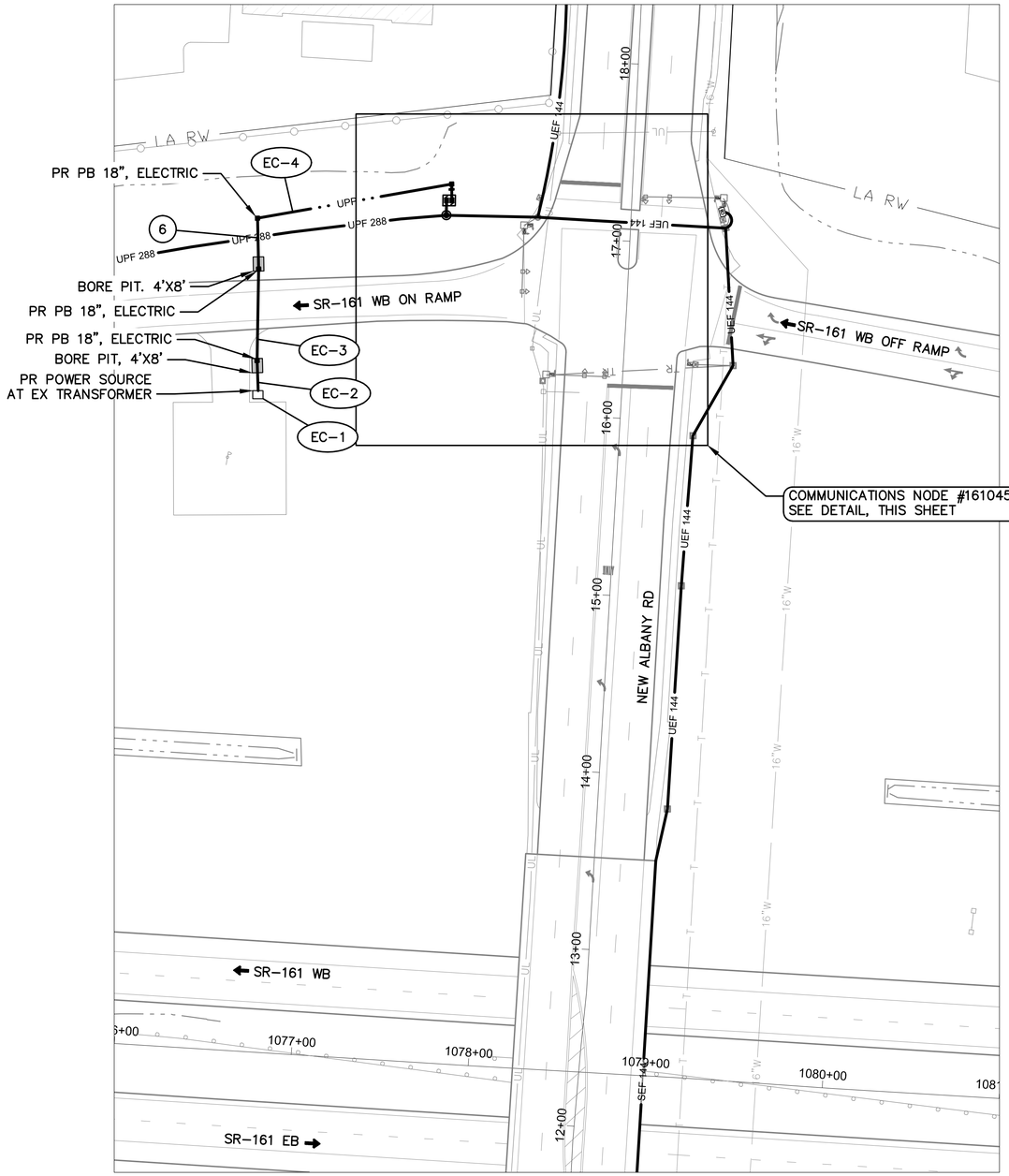
SR-161 BETWEEN STA. 984+00 AND 990+00
NODE #161043.8

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

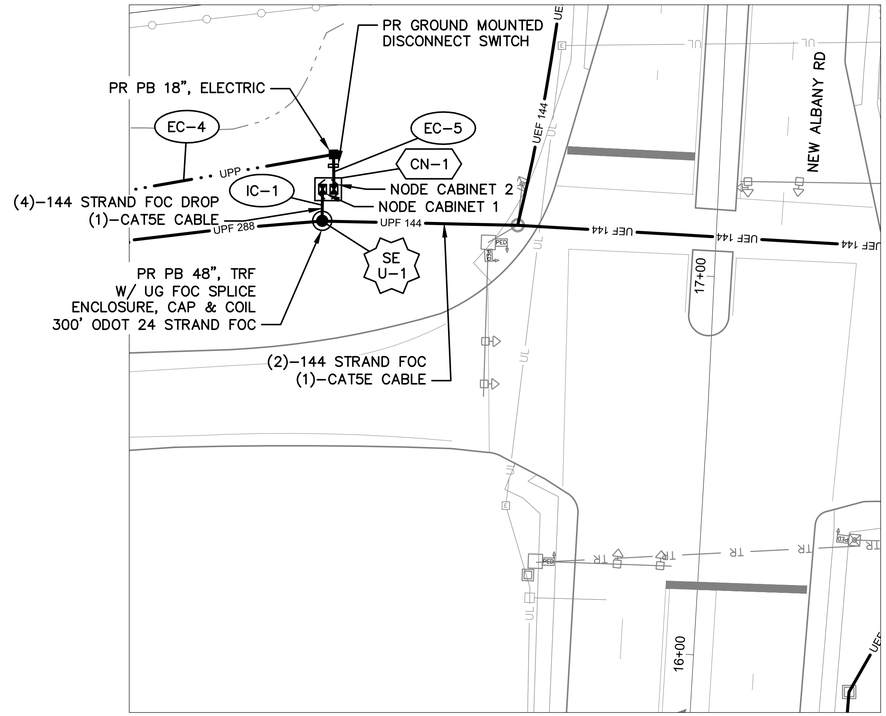
3378-E

589
915

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SR-161 BETWEEN STATION 1076+00 AND 1081+00



DETAIL - COMMUNICATIONS NODE #161045.6

0 20 40
HORIZONTAL
SCALE IN FEET

NOTES:

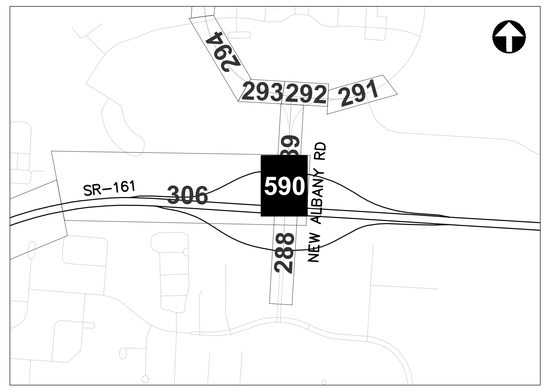
1. SEE SHEET 591 FOR QUANTITIES.
2. SEE SHEETS 627, 878 & 879 FOR COMMUNICATION DETAILS.
3. SEE SHEET 289 FOR NEW ALBANY RD INTERCONNECT PLANS.
4. SEE SHEET 306 FOR SR-161 INTERCONNECT PLANS AND UTILITY CROSSINGS 1-5.
5. SEE SHEET 344 FOR POWER SERVICE DETAILS.
6. LIMITED ACCESS RIGHT OF WAY IS LOCATED OUTSIDE OF THE EXTENT OF VIEW SHOWN ABOVE.

(#) EXISTING UTILITY CROSSING. SEE UTILITY CROSSING INFO SHEET 325.

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CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
- ☒ WATER
- ☐ POWER
- ☒ LIGHTING



REFER TO SHEET 8 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

0 40 80
HORIZONTAL
SCALE IN FEET

CIP: 540007-100012
PID NUMBER: 99733

COMMUNICATIONS NODE PLAN
SR-161 BETWEEN STA. 1076+00 AND 1081+00, NODE #161045.6

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E - FINAL SUBMITTAL

590
915

3378-E

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ESTIMATED QUANTITIES

SHEET NO.	REFERENCE NO.	LOCATION	STATION		625	625	625	625	625	625	625	625	625	625	632	632	632	632	632	632	632	632	632	633	633	633
					CONDUIT, 2", AS PER PLAN	CONDUIT, 3", AS PER PLAN	CONDUIT, 4", AS PER PLAN	CONDUIT, JACKED OR DRILLED, 3", AS PER PLAN	DISTRIBUTION CABLE, NO. 6	GROUND ROD	POWER SERVICE, TYPE H, AS PER PLAN	PULL BOX, 18", 725.08, AS PER PLAN	PULL BOX, CONCRETE 48", AS PER PLAN	TRENCH, 36" DEEP, AS PER PLAN	INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 144 STRAND	INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 24 STRAND	INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 288 STRAND	INTERCONNECT CABLE, MISC.: FIBER OPTIC FUSION SPLICE	INTERCONNECT, MISC.: CAT 5E CABLE, OUTDOOR RATED	INTERCONNECT, MISC.: DUAL PANEL ASSEMBLY, 24 FIBER, 1 RU, PRE-TERMINATED	INTERCONNECT, MISC.: PRE-TERMINATED FIBER OPTIC DROP CABLE, 144 STRAND, 150FT	INTERCONNECT, MISC.: SPLICE ENCLOSURE, CLAMSHELL, 288 SPLICE	INTERCONNECT, MISC.: TERMINATION PANEL, 288 FIBER, 4 RU	CONTROLLER ITEM, MISC.: COMMUNICATIONS NODE	CONTROLLER ITEM, MISC.: FIBER OPTIC ETHERNET TRANSCEIVER, SHORT RANGE	CONTROLLER ITEM, MISC.: LAYER 3 ETHERNET SWITCH, ENVIRONMENTALLY HARDENED
			FROM	TO	FT	FT	FT	FT	FT	EACH	EACH	EACH	EACH	FT	FT	FT	FT	EACH	FT	EACH	EACH	EACH	EACH	EACH	EACH	EACH
SR-161 BETWEEN STA. 1076+00 AND 1081+00, NODE #161045.6																										
590	EC-1	SR-161	1076+58, 372' LT							1	1															
590	EC-2	SR-161	1076+58, 372' LT	1076+56, 389' LT		17			51			1		17												
590	EC-3	SR-161	1076+54, 441' LT	1076+56, 389' LT				52	156																	
590	EC-4	SR-161	1076+54, 441' LT	1077+60, 495' LT		140			420			3		140												
590	EC-5	SR-161	1077+59, 486' LT	1077+60, 495' LT	9				27					9												
590	SE U-1	SR-161	1077+58, 478' LT										1		150	300	75	576					2			
590	IC-1	SR-161	1077+58, 478' LT	1077+59, 486' LT			18							9					9		4					
590	CN-1	SR-161	1077+59, 486' LT							2										1				2	1	4	1
SHEET TOTAL					9	157	18	52	654	3	1	4	1	175	150	300	75	576	9	1	4	2	2	1	4	1

AERIAL SAG: 1.5% AERIAL SAG IS INCLUDED IN THE QUANTITIES FOR ANY AERIAL FIBER OR CABLE ITEMS.

3378-E

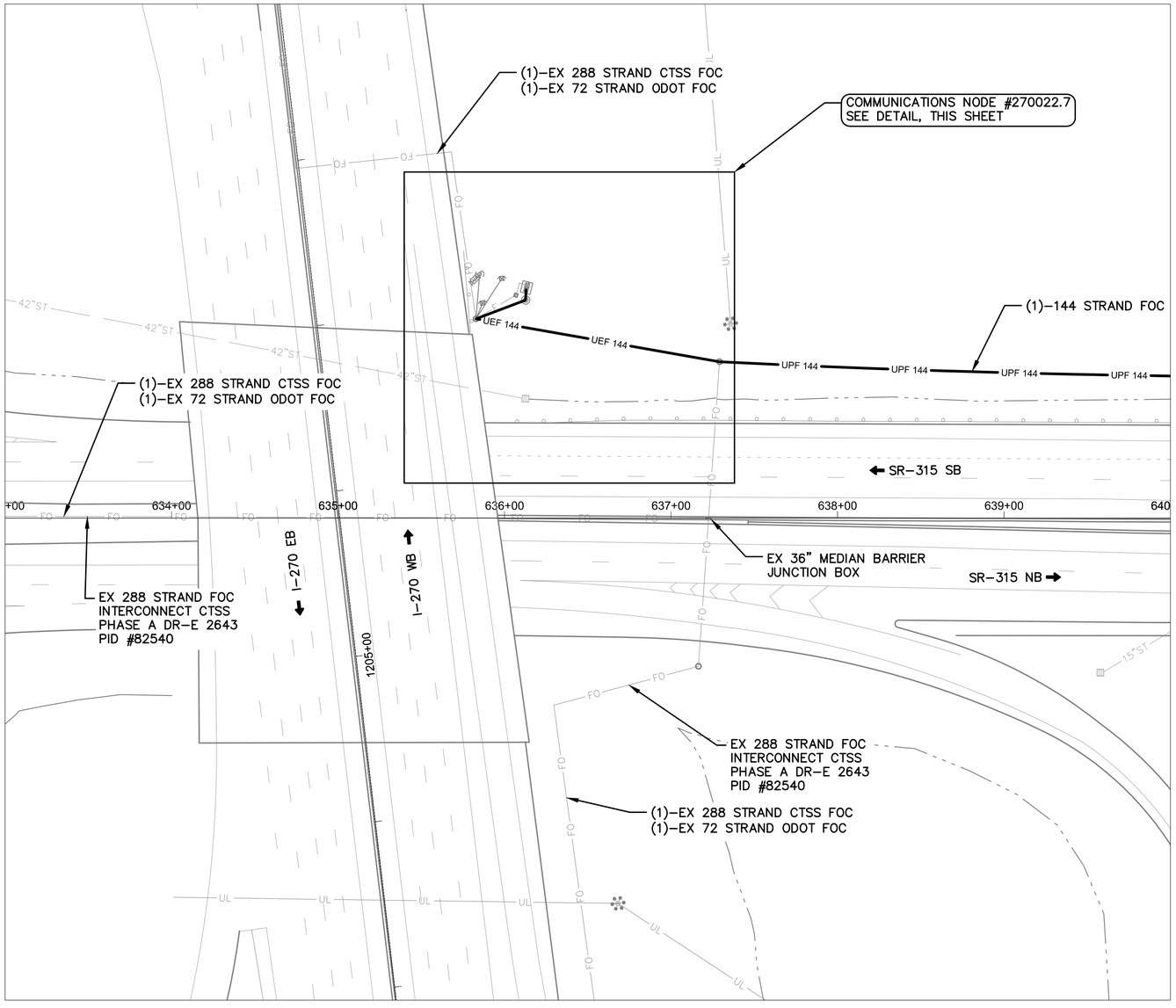
CIP: 540007–100012
PID NUMBER: 99733

SR–161 BETWEEN STA. 1076+00 AND 1081+00
NODE #161045.6

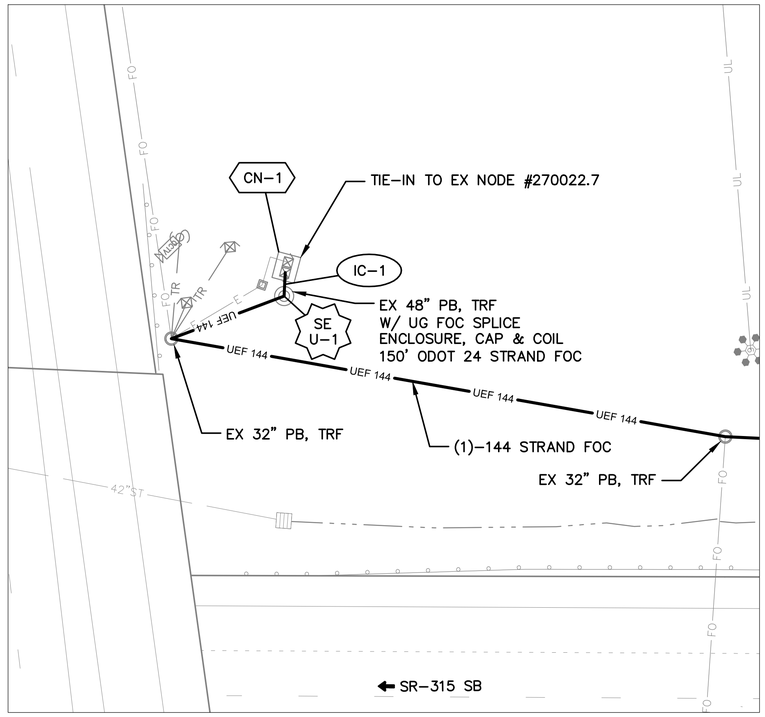
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

591
915

J:\Jobs\63721 CTSS Phase E\TECHPROD\Sheets\CTSS_PhE_TrunkALL_N_IC_QUANTITIES.dwg – SR–161 at N ALBANY_Q14 layout ~ last saved by: gburch 09/06/2018 02:04pm ~ printed 09/18/2018 10:57am PSLTS: 1 LTS: 1 CAS: 1:1



SR-315 BETWEEN STATION 633+00 AND 640+00



DETAIL - COMMUNICATIONS NODE #270022.7

0 20 40
HORIZONTAL
SCALE IN FEET

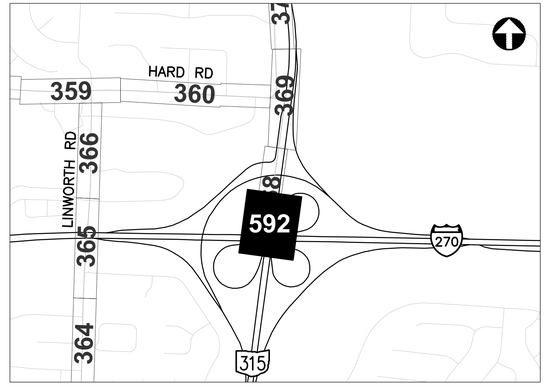
NOTES:

1. SEE SHEET 593 FOR QUANTITIES.
2. SEE SHEETS 615, 890, 891, & 892 FOR COMMUNICATION DETAILS.
3. SEE SHEET 368 FOR INTERCONNECT DETAILS.
4. LIMITED ACCESS RIGHT OF WAY LOCATED OUTSIDE OF THE EXTENT OF VIEW SHOWN ABOVE.

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CITY OF COLUMBUS UTILITY LEGEND

- [x] SEWER
- [ ] WATER
- [ ] POWER
- [ ] LIGHTING



REFER TO SHEET 6 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

3378-E

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

COMMUNICATIONS NODE PLAN
SR–315 BETWEEN STA. 633+00 AND 640+00, NODE #270022.7

CIP: 540007–100012
PID NUMBER: 99733

0 40 80
HORIZONTAL
SCALE IN FEET

592
915

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ESTIMATED QUANTITIES

SHEET NO.	REFERENCE NO.	LOCATION	STATION		202	632	632	632	632	632	632	633												
					EXISTING CONDUIT CLEANED, AS PER PLAN	INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 144 STRAND	INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 24 STRAND	INTERCONNECT CABLE, MISC.: FIBER OPTIC FUSION SPLICE	INTERCONNECT, MISC.: PRE-TERMINATED FIBER OPTIC DROP CABLE, 144 STRAND, 150FT	INTERCONNECT, MISC.: SPLICE ENCLOSURE, CLAMSHELL, 144 SPLICE	INTERCONNECT, MISC.: TERMINATION PANEL, 144 FIBER, 4 RU	CONTROLLER ITEM, MISC.: FIBER OPTIC ETHERNET TRANSCEIVER, SHORT RANGE												
			FROM	TO	FT	FT	FT	EACH	EACH	EACH	EACH	EACH												
I-270 BETWEEN STA. 633+00 AND 640+00, NODE #270022.7																								
592	SE U-1	SR-315	636+13, 131' LT			75	150	144		1														
592	IC-1	SR-315	636+13, 131' LT	636+13, 137' LT	6				2															
592	CN-1	SR-315	636+13, 137' LT								2	2												
SHEET TOTAL					6	75	150	144	2	1	2	2	-	-	-	-	-	-	-	-	-	-	-	-

AERIAL SAG: 1.5% AERIAL SAG IS INCLUDED IN THE QUANTITIES FOR ANY AERIAL FIBER OR CABLE ITEMS.

3378-E

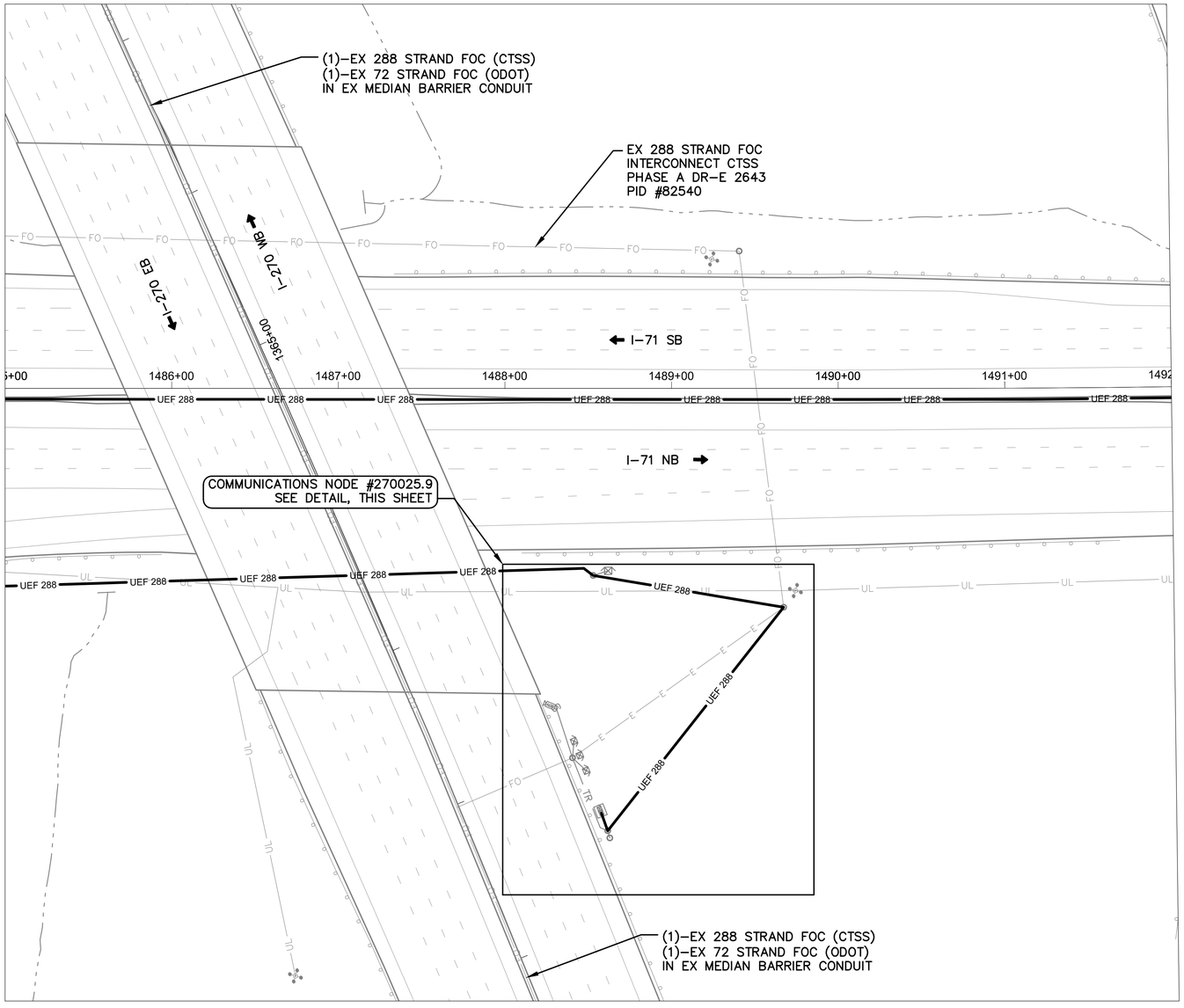
CIP: 540007-100012
PID NUMBER: 99733

SR-315 BETWEEN STA. 633+00 AND 640+00
NODE #270022.7

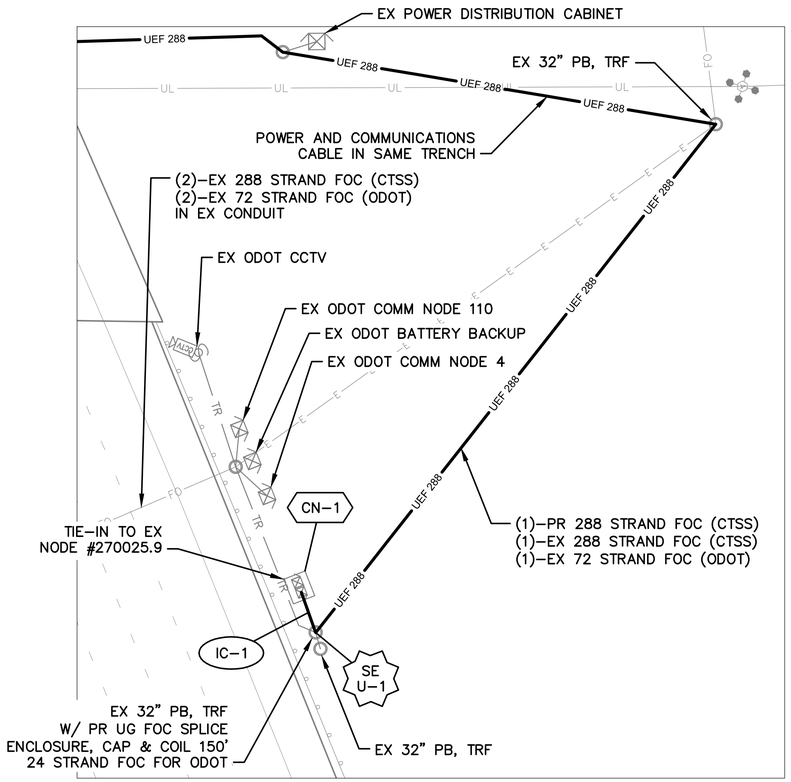
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E - FINAL SUBMITTAL

593
915

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I-71 BETWEEN STATION 1485+00 AND 1492+00



DETAIL - COMMUNICATIONS NODE #270025.9

0 20 40
HORIZONTAL
SCALE IN FEET

NOTES:

1. SEE SHEET 595 FOR QUANTITIES.
2. SEE SHEETS 616, 893, 894 & 895 FOR COMMUNICATION DETAILS.
3. SEE SHEET 416 FOR INTERCONNECT DETAILS.
4. LIMITED ACCESS RIGHT OF WAY IS LOCATED OUTSIDE OF THE EXTENT OF VIEW SHOWN ABOVE.

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- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 6 FOR
INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

3378-E

0 40 80
HORIZONTAL
SCALE IN FEET

CIP: 540007–100012
PID NUMBER: 99733

COMMUNICATIONS NODE PLAN
I–71 BETWEEN STA. 1485+00 AND 1492+00, NODE #270025.9

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

594
915

J:\Jobs\63721 ctss phase e\TECHPROD\Sheets\CTSS_PhE_Trunk3_EX_NODE_270025.9.dwg – NODE_270025.9 layout ~ last saved by: gburch 09/05/2018 04:28pm ~ printed 09/12/2018 06:48am PS:TS: 1 LTS: 1 CAS: 1:1

ESTIMATED QUANTITIES

SHEET NO.	REFERENCE NO.	LOCATION	STATION		202	632	632	632	632	632	632	633												
					EXISTING CONDUIT CLEANED, AS PER PLAN	INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 24 STRAND	INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 288 STRAND	INTERCONNECT CABLE, MISC.: FIBER OPTIC FUSION SPLICE	INTERCONNECT, MISC.: PRE-TERMINATED FIBER OPTIC DROP CABLE, 144 STRAND, 150FT	INTERCONNECT, MISC.: SPLICE ENCLOSURE, CLAMSHELL, 288 SPLICE	INTERCONNECT, MISC.: TERMINATION PANEL, 144 FIBER, 4 RU	CONTROLLER ITEM, MISC.: FIBER OPTIC ETHERNET TRANSCEIVER, SHORT RANGE												
			FROM	TO	FT	FT	FT	EACH	EACH	EACH	EACH	EACH												
I-71 BETWEEN STA. 1485+00 AND 1492+00, NODE #270025.9																								
594	CN-1	I-71	1488+58, 255' RT								2	1												
594	IC-1	I-71	1488+58, 255' RT	1488+62, 265' RT	11				2															
594	SE U-1	I-71	1488+62, 265' RT			150	75	288		1														
SHEET TOTAL					11	150	75	288	2	1	2	1	-	-	-	-	-	-	-	-	-	-	-	-

AERIAL SAG: 1.5% AERIAL SAG IS INCLUDED IN THE QUANTITIES FOR ANY AERIAL FIBER OR CABLE ITEMS.

3378-E

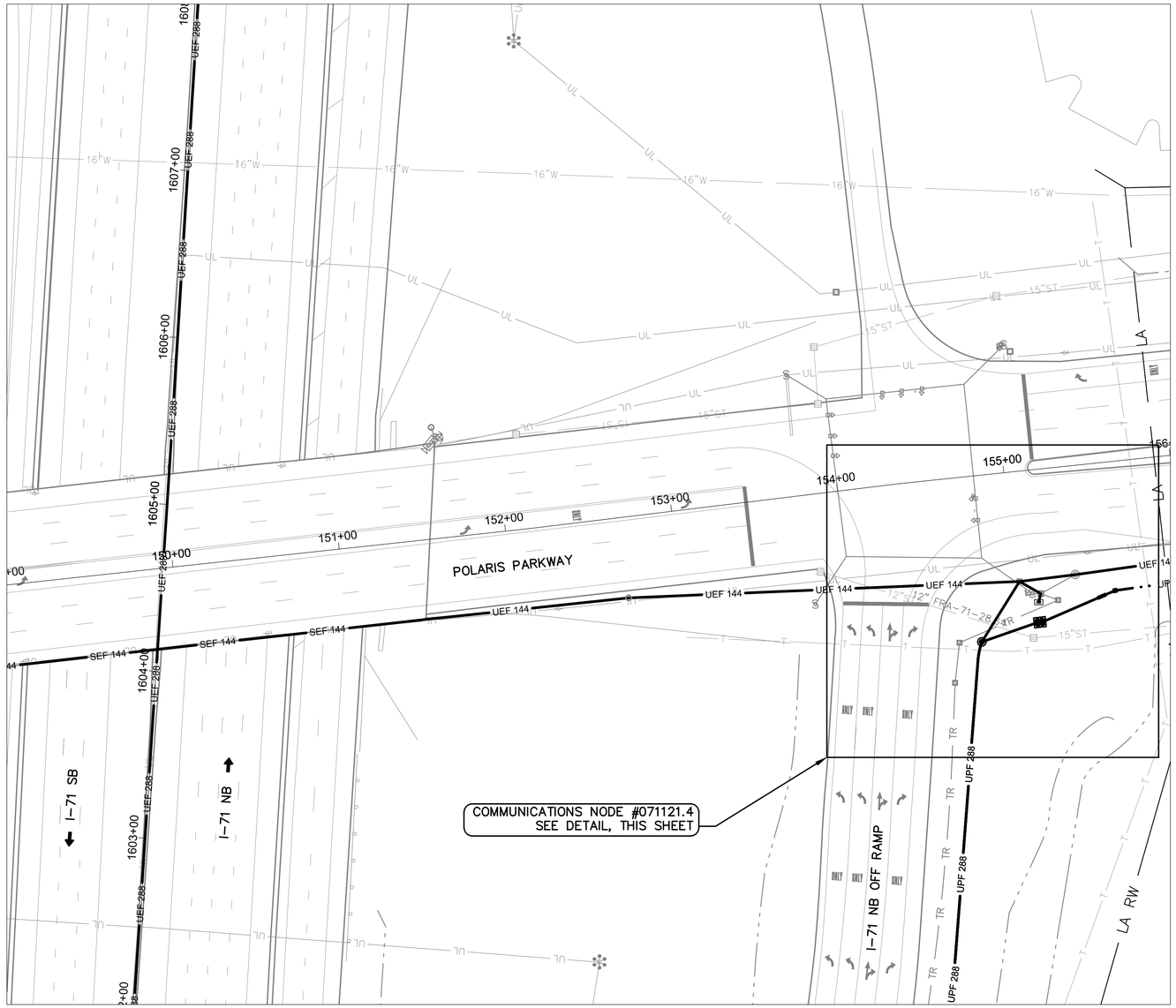
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PID NUMBER: 99733

I-71 BETWEEN STA. 1485+00 AND 1492+00
NODE #270025.9

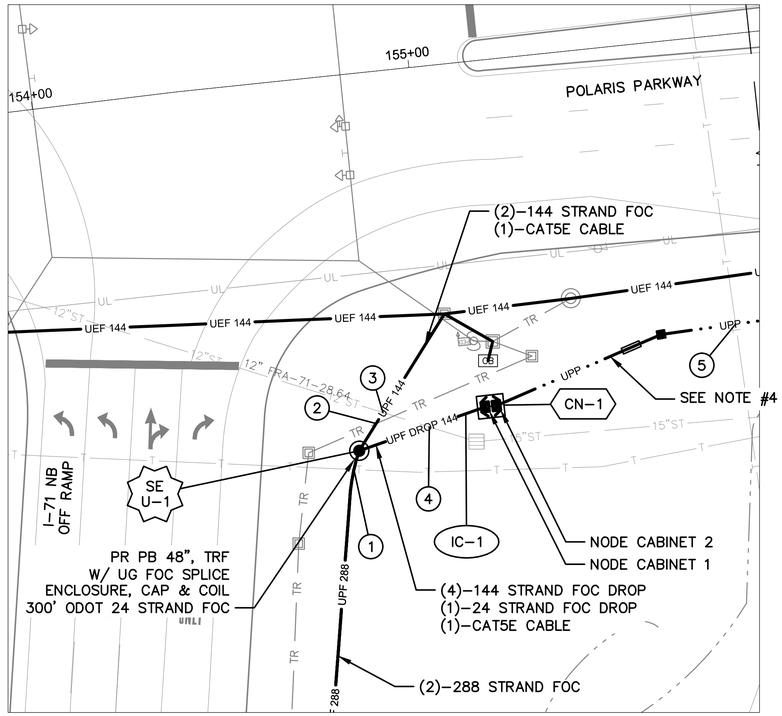
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

595
915

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I-71 BETWEEN STATION 1602+00 AND 1608+00



DETAIL - COMMUNICATIONS NODE #071121.4

0 20 40

HORIZONTAL
SCALE IN FEET

NOTES:

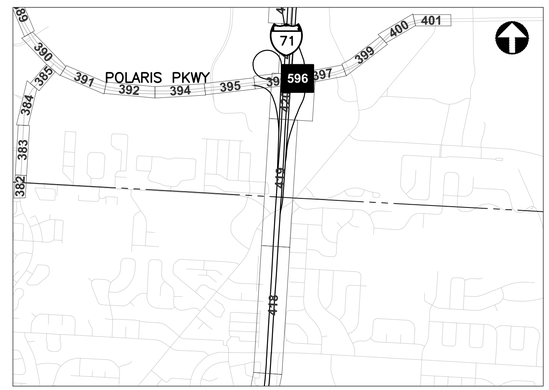
1. SEE SHEET 597 FOR QUANTITIES.
2. SEE SHEETS 618, 870 & 871 FOR COMMUNICATION DETAILS.
3. SEE SHEET 397 FOR POLARIS PARKWAY INTERCONNECT DETAILS.
4. SEE SHEET 420 FOR I-71 INTERCONNECT DETAILS.
5. SEE SHEETS 397-399 FOR POWER SERVICE PLAN.
6. SEE SHEET 345 FOR POWER SERVICE DETAILS.

(#) EXISTING UTILITY CROSSING. SEE UTILITY CROSSING INFO SHEET 326.

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- [X] SEWER
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- [ ] POWER
- [X] LIGHTING



REFER TO SHEET 6 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

3378-E

0 40 80
HORIZONTAL
SCALE IN FEET

CIP: 540007-100012
PID NUMBER: 99733

COMMUNICATIONS NODE PLAN
I-71 BETWEEN STA. 1602+00 AND 1608+00, NODE #071121.4

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E - FINAL SUBMITTAL

596
915

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ESTIMATED QUANTITIES

SHEET NO.	REFERENCE NO.	LOCATION	STATION		625	625	625	632	632	632	632	632	632	632	632	632	632	632	632	633	633	633		
					CONDUIT, 4", AS PER PLAN	PULL BOX, CONCRETE 48", AS PER PLAN	TRENCH, 36" DEEP, AS PER PLAN	INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 144 STRAND	INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 24 STRAND	INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 288 STRAND	INTERCONNECT CABLE, MISC.: FIBER OPTIC FUSION SPLICE	INTERCONNECT, MISC.: DUAL PANEL ASSEMBLY, 24 FIBER, 1 RU, PRE-TERMINATED	INTERCONNECT, MISC.: PRE-TERMINATED FIBER OPTIC DROP CABLE, 144 STRAND, 150FT	INTERCONNECT, MISC.: PRE-TERMINATED FIBER OPTIC DROP CABLE, 24 STRAND, 150FT	INTERCONNECT, MISC.: SPLICE ENCLOSURE, CLAMSHELL, 288 SPLICE	INTERCONNECT, MISC.: SPLICE ENCLOSURE, DOME, 800 SPLICE	INTERCONNECT, MISC.: TERMINATION PANEL, 144 FIBER, 4 RU	INTERCONNECT, MISC.: TERMINATION PANEL, 24 FIBER, 1 RU	INTERCONNECT, MISC.: TERMINATION PANEL, 288 FIBER, 4 RU	CONTROLLER ITEM, MISC.: COMMUNICATIONS NODE	CONTROLLER ITEM, MISC.: FIBER OPTIC ETHERNET TRANSCEIVER, SHORT RANGE	CONTROLLER ITEM, MISC.: LAYER 3 ETHERNET SWITCH, ENVIRONMENTALLY HARDENED		
			FROM	TO	FT	EACH	FT	FT	FT	FT	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH		
I-71 BETWEEN STA 1602+00 AND 1608+00, NODE #071121.4																								
596	SE U-1	POLARIS PKWY	154+76, 99' RT			1		150	300	150	624				1	1								
596	IC-1	POLARIS PKWY	154+76, 99' RT	155+11, 91' RT	70		35						4	1										
596	CN-1	POLARIS PKWY	155+11, 91' RT									1						2	1	1	1	4	1	
SHEET TOTAL					70	1	35	150	300	150	624	1	4	1	1	1	2	1	1	1	4	1	-	-

AERIAL SAG: 1.5% AERIAL SAG IS INCLUDED IN THE QUANTITIES FOR ANY AERIAL FIBER OR CABLE ITEMS.

3378-E

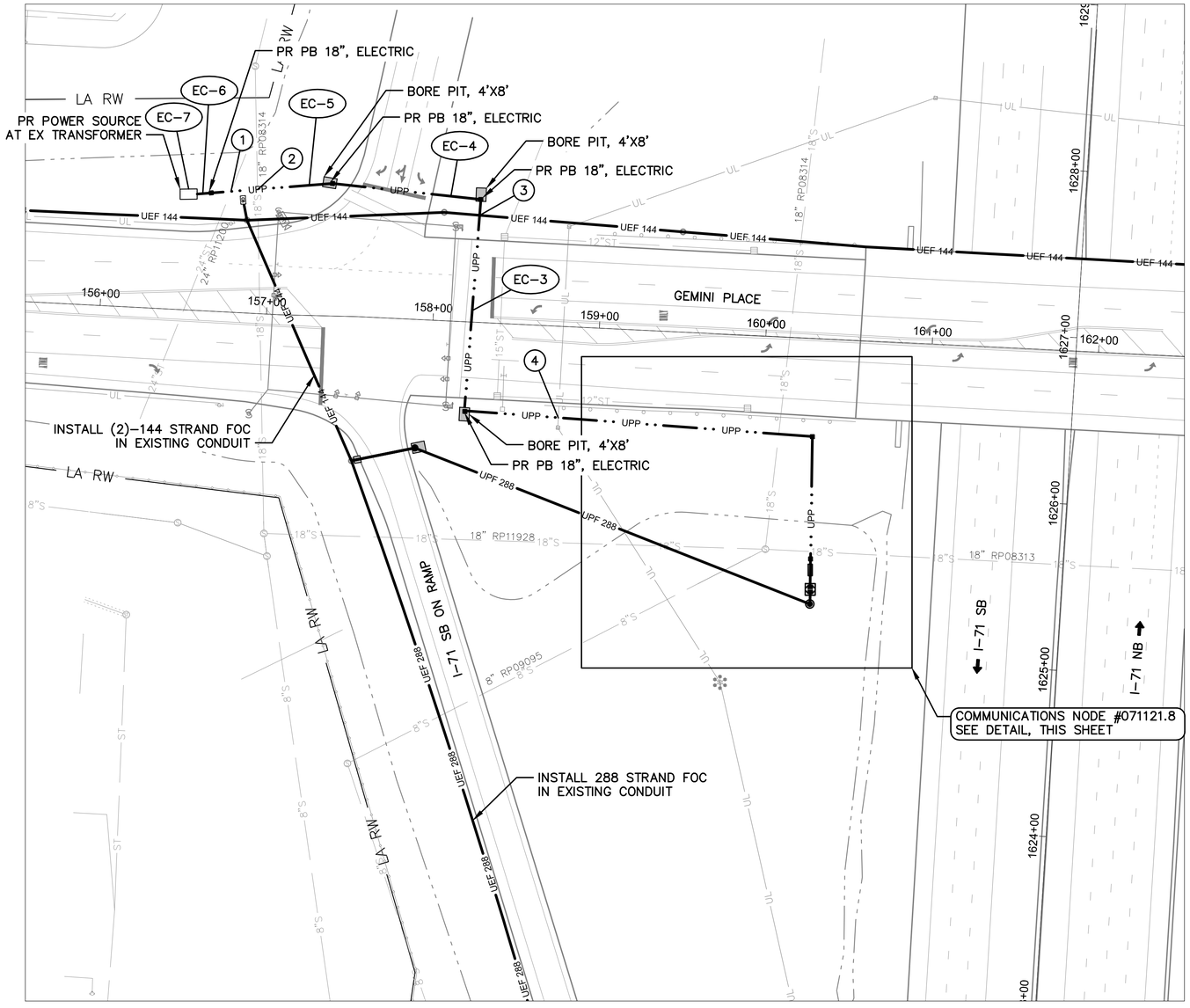
CIP: 540007-100012
PID NUMBER: 99733

I-71 BETWEEN STA. 1602+00 AND 1608+00
NODE #071121.4

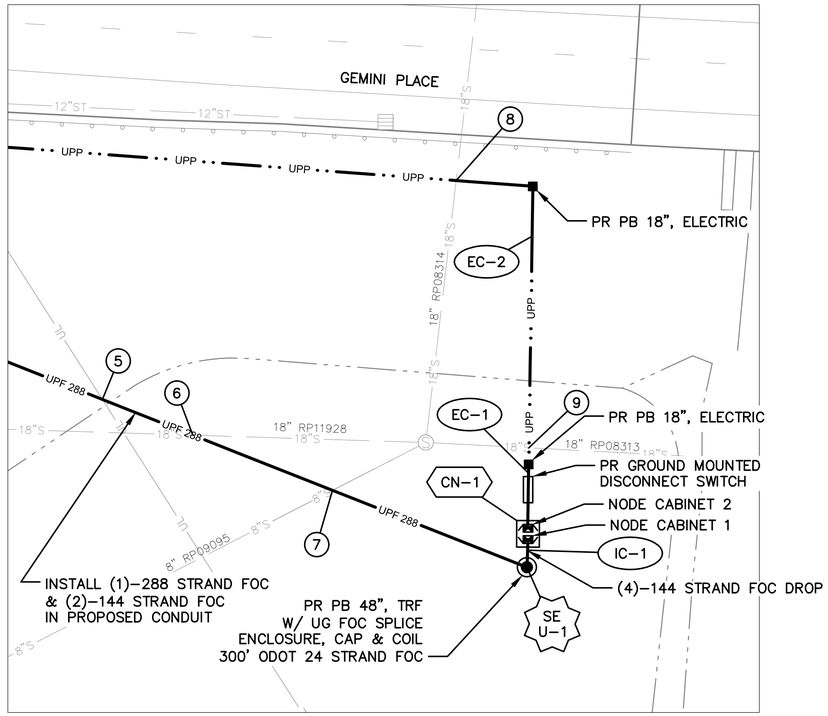
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E - FINAL SUBMITTAL

597
915

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I-71 BETWEEN STATION 1623+00 AND 1629+00



DETAIL - COMMUNICATIONS NODE #071121.8

0 20 40
HORIZONTAL SCALE IN FEET

NOTES:

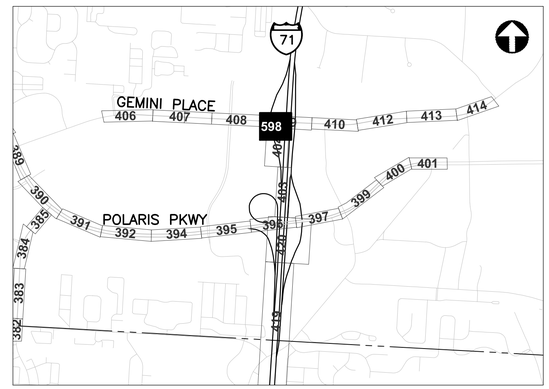
1. SEE SHEET 599 FOR QUANTITIES.
2. SEE SHEETS 618, 872 & 873 FOR COMMUNICATION DETAILS.
3. SEE SHEETS 404 & 409 FOR INTERCONNECT DETAILS.
4. SEE SHEET 346 FOR POWER SERVICE DETAILS.

(#) EXISTING UTILITY CROSSING. SEE UTILITY CROSSING INFO SHEET 326.

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☐	WATER
☐	POWER
☐	LIGHTING



REFER TO SHEET 6 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

0 40 80
HORIZONTAL SCALE IN FEET

CIP: 540007-100012
PID NUMBER: 99733

COMMUNICATIONS NODE PLAN
I-71 BETWEEN STA. 1623+00 AND 1629+00, NODE #071121.8

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E - FINAL SUBMITTAL

598
915

3378-E

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ESTIMATED QUANTITIES

SHEET NO.	REFERENCE NO.	LOCATION	STATION		625 CONDUIT, 2", AS PER PLAN	625 CONDUIT, 3", AS PER PLAN	625 CONDUIT, 4", AS PER PLAN	625 CONDUIT, JACKED OR DRILLED, 3", AS PER PLAN	625 DISTRIBUTION CABLE, NO. 2	625 GROUND ROD	625 POWER SERVICE, TYPE I, AS PER PLAN	625 PULL BOX, 18", 725.08, AS PER PLAN	625 PULL BOX, CONCRETE 48", AS PER PLAN	625 TRENCH, 36" DEEP, AS PER PLAN	632 INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 144 STRAND	632 INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 24 STRAND	632 INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 288 STRAND	632 INTERCONNECT CABLE, MISC.: FIBER OPTIC FUSION SPLICE	632 INTERCONNECT, MISC.: DUAL PANEL ASSEMBLY, 24 FIBER, 1 RU, PRE-TERMINATED	632 INTERCONNECT, MISC.: PRE-TERMINATED FIBER OPTIC DROP CABLE, 144 STRAND, 150FT	632 INTERCONNECT, MISC.: SPLICE ENCLOSURE, CLAMSHELL, 288 SPLICE	633 INTERCONNECT, MISC.: TERMINATION PANEL, 288 FIBER, 4 RU	633 CONTROLLER ITEM, MISC.: COMMUNICATIONS NODE	633 CONTROLLER ITEM, MISC.: FIBER OPTIC ETHERNET TRANSCEIVER, SHORT RANGE	633 CONTROLLER ITEM, MISC.: LAYER 3 ETHERNET SWITCH, ENVIRONMENTALLY HARDENED
			FROM	TO	FT	FT	FT	FT	FT	EACH	EACH	EACH	EACH	FT	FT	FT	FT	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH
I-71 BETWEEN STA 1623+00 AND 1629+00, NODE #071121.8																									
598	SE U-1	I-71	1625+31, 150' LT										1		150	300	75	576			2				
598	IC-1	I-71	1625+31, 150' LT	1625+39, 150' LT			16							8						4					
598	CN-1	I-71	1625+39, 150' LT						30	2									1			2	1	3	1
598	EC-1	I-71	1625+39, 150' LT	1625+58, 151' LT	17				51			1		17											
598	EC-2	I-71 / GEMINI PL	1625+58, 151' LT	158+22, 54' RT		283			849			2		283											
598	EC-3	GEMINI PL	158+22, 54' RT	158+25, 74' LT				127	381			1													
598	EC-4	GEMINI PL	158+25, 74' LT	157+38, 79' LT				90	270			1													
598	EC-5	GEMINI PL	157+38, 79' LT	156+63, 71' LT		73			219			1													
598	EC-6	GEMINI PL	156+63, 71' LT	156+50, 70' LT	14				42																
598	EC-7	GEMINI PL	156+50, 70' LT						30	1	1														
SHEET TOTAL					31	356	16	217	1,872	3	1	6	1	308	150	300	75	576	1	4	2	2	1	3	1

AERIAL SAG: 1.5% AERIAL SAG IS INCLUDED IN THE QUANTITIES FOR ANY AERIAL FIBER OR CABLE ITEMS.

3378-E

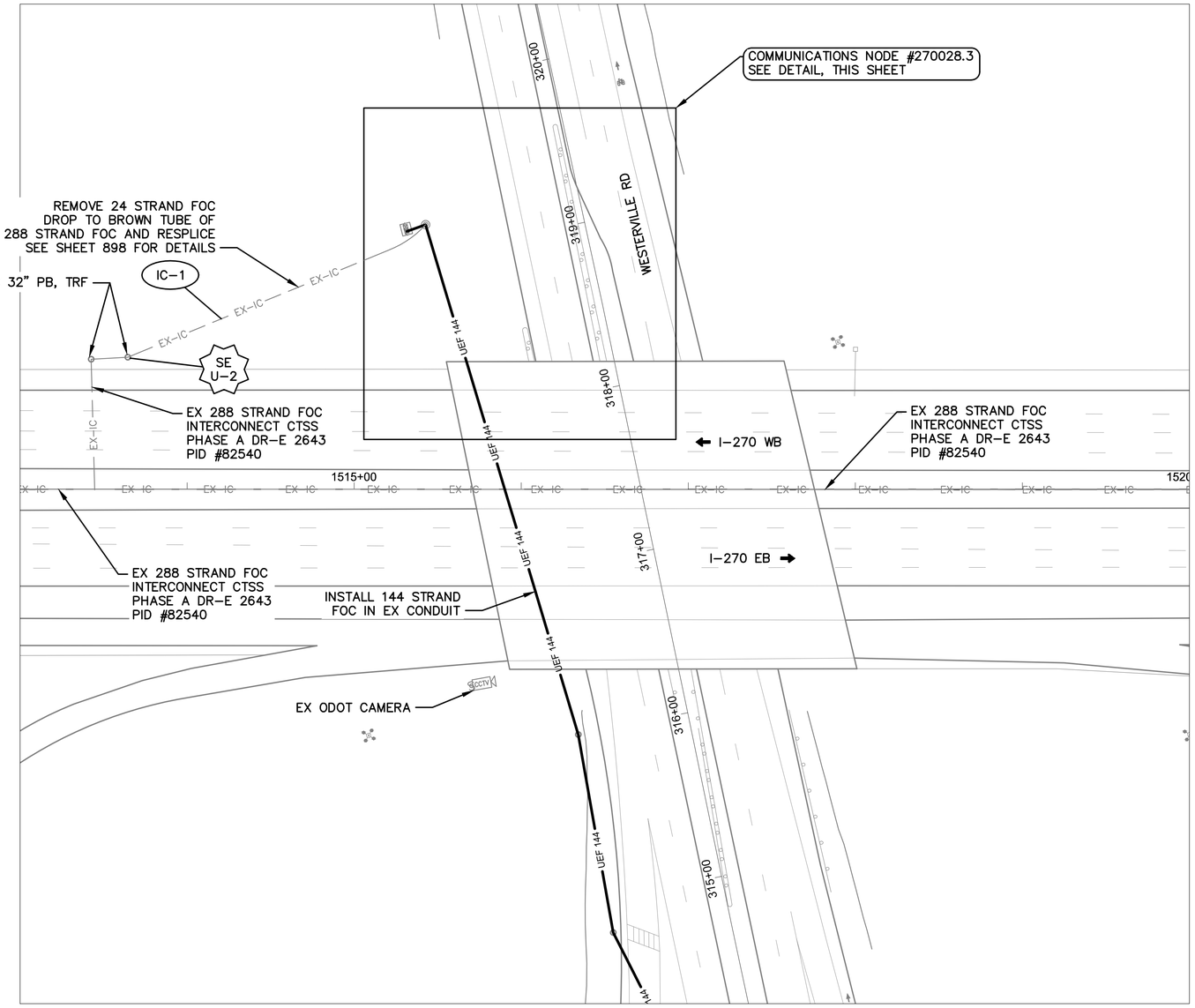
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PID NUMBER: 99733

I-71 BETWEEN 1623+00 AND 1629+00
NODE #071121.8

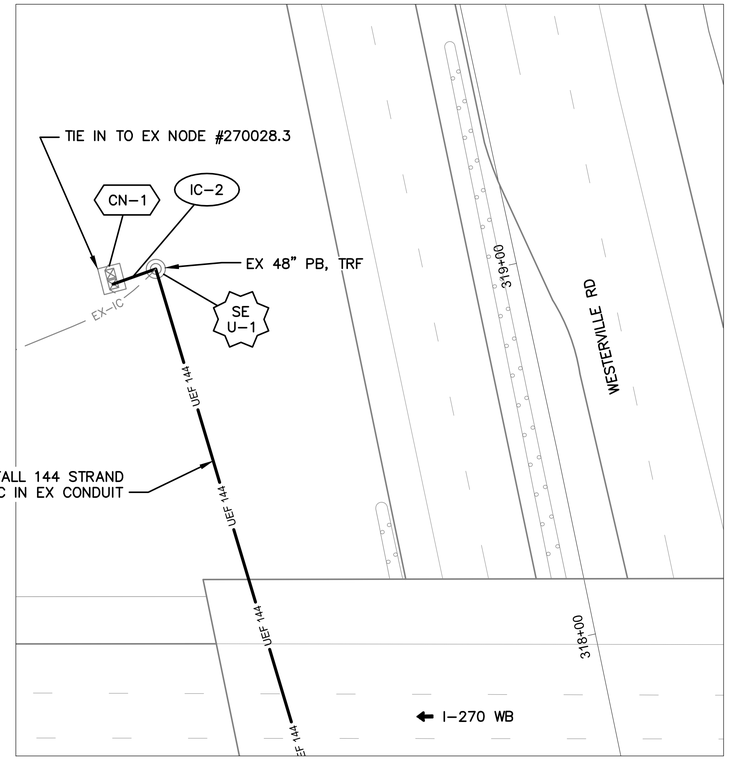
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

599
915

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I-270 BETWEEN STATION 1513+00 AND 1520+00



DETAIL - COMMUNICATIONS NODE #270028.3

0 20 40
HORIZONTAL
SCALE IN FEET

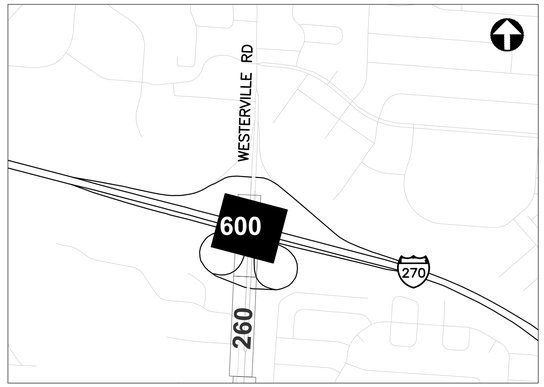
NOTES:

1. SEE SHEET 601 FOR QUANTITIES.
2. SEE SHEETS 626, 896, 897 & 898 FOR COMMUNICATION DETAILS.
3. SEE SHEET 261 FOR INTERCONNECT DETAILS.
4. LIMITED ACCESS RIGHT OF WAY IS LOCATED OUTSIDE OF THE EXTENT OF VIEW SHOWN ABOVE.

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- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 6 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

3378-E

0 40 80
HORIZONTAL
SCALE IN FEET

CIP: 540007-100012
PID NUMBER: 99733

COMMUNICATIONS NODE PLAN
I-270 BETWEEN STA. 1513+00 AND 1520+00, NODE #270028.3

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

600
915

J:\Jobs\63721 ctss phase e\TECHPROD\Sheets\CTSS_PhE_Trunk2_NODE_Westerville_at_270.dwg – NODE_270028.3 layout ~ last saved by: gburch 09/06/2018 08:36am ~ printed 09/12/2018 06:56am PSLTS: 1 LTS: 1 CAS: 1:1

ESTIMATED QUANTITIES

SHEET NO.	REFERENCE NO.	LOCATION	STATION		632 INTERCONNECT CABLE, MISC.: FIBER OPTIC FUSION SPLICE	632 INTERCONNECT CABLE, MISC.: REMOVE EXISTING UNDERGROUND INTERCONNECT	632 INTERCONNECT, MISC.: PRE-TERMINATED FIBER OPTIC DROP CABLE, 144 STRAND, 475FT	632 INTERCONNECT, MISC.: SPLICE ENCLOSURE, DOME, 800 SPLICE	632 INTERCONNECT, MISC.: TERMINATION PANEL, 288 FIBER, 4 RU														
			FROM	TO	EACH	FT	EACH	EACH	EACH														
I-270 BETWEEN STA. 1513+00 AND 1520+00, NODE #270028.3																							
600	IC-1	I-270	1513+65, 79' LT	1515+43, 158' LT		196																	
600	SE U-1	I-270	1515+43, 158' LT		144																		
600	IC-2	I-270	1513+65, 79' LT	1515+31, 154' LT			2																
600	CN-1	I-270	1515+31, 154' LT						1														
600	SE U-2	I-270	1513+65, 79' LT		300			1															
SHEET TOTAL					444	196	2	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-

AERIAL SAG: 1.5% AERIAL SAG IS INCLUDED IN THE QUANTITIES FOR ANY AERIAL FIBER OR CABLE ITEMS.

3378-E

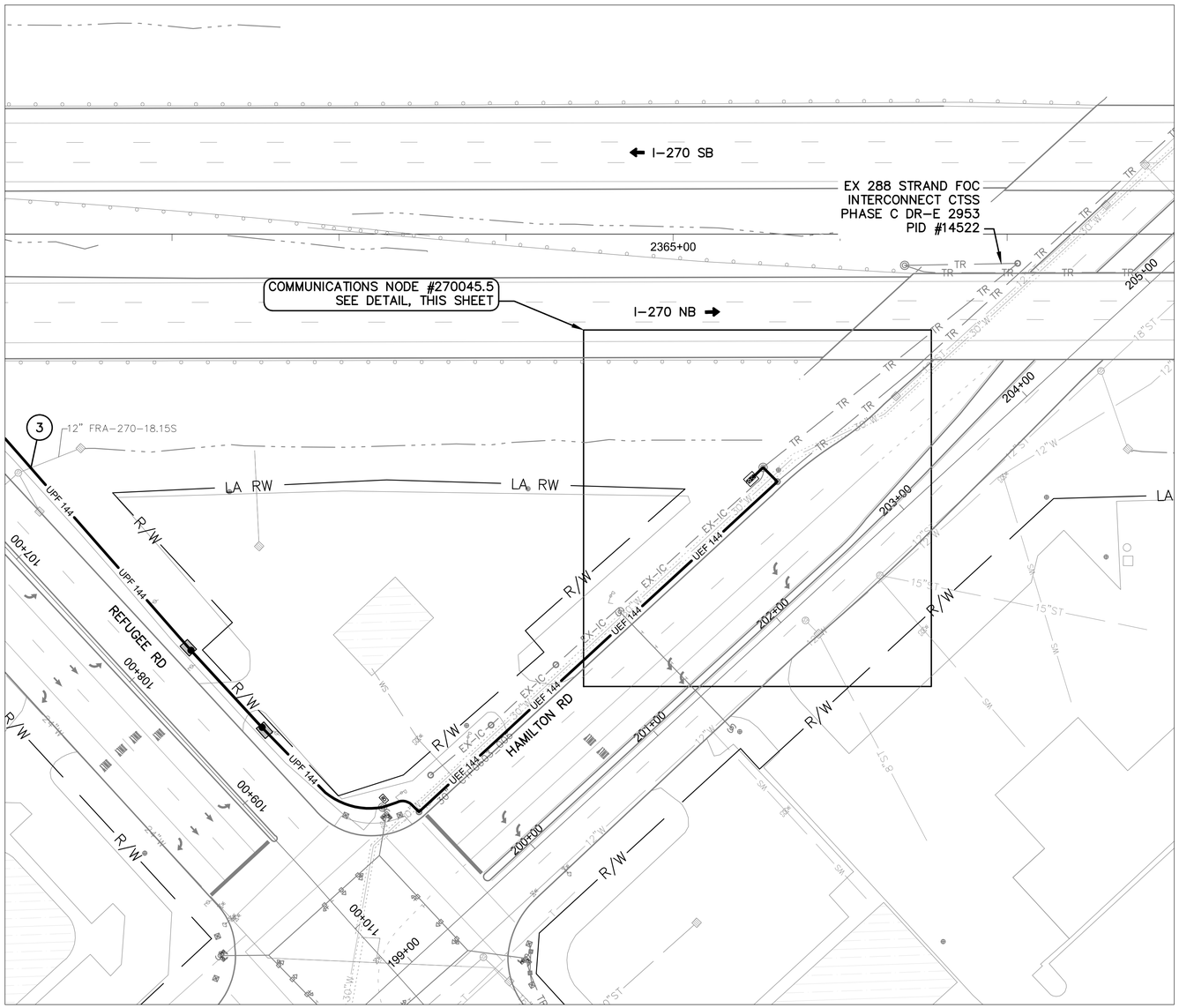
CIP: 540007–100012
PID NUMBER: 99733

I–270 BETWEEN STA. 1513+00 AND 1520+00
NODE #270028.3

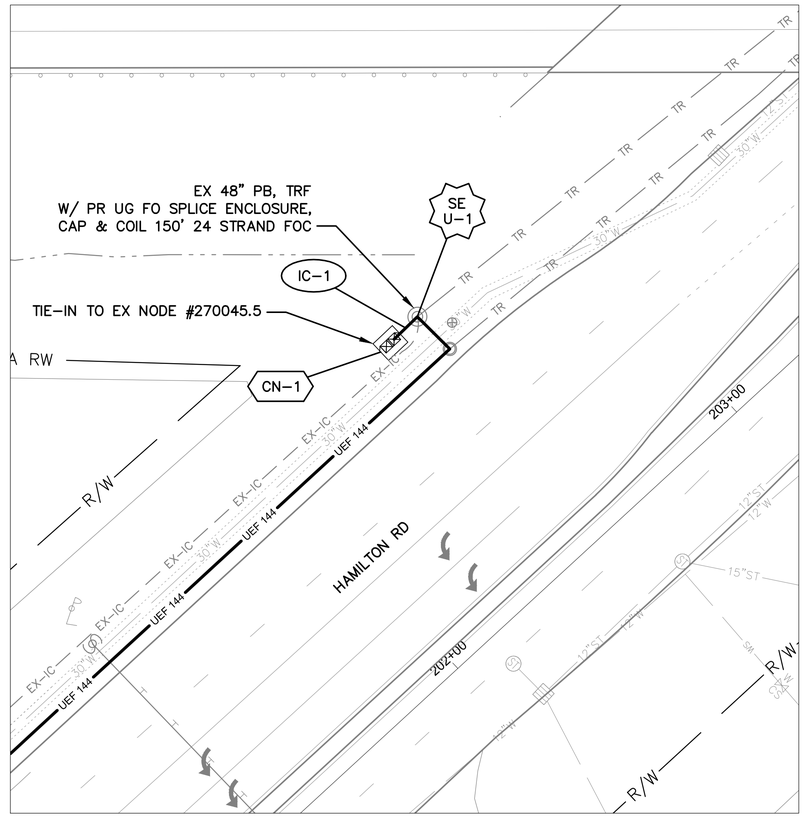
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

601
915

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I-270 BETWEEN STATION 2362+00 AND 2369+00



DETAIL - COMMUNICATIONS NODE #270045.5

0 20 40

HORIZONTAL
SCALE IN FEET

NOTES:

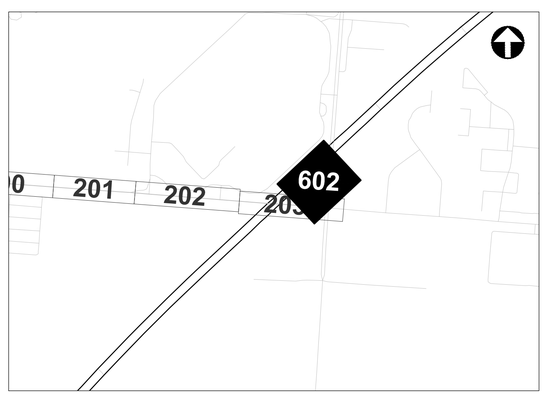
1. SEE SHEET 603 FOR QUANTITIES.
2. SEE SHEETS 630 FOR COMMUNICATION DETAILS.
3. SEE SHEET 203 FOR INTERCONNECT PLANS AND POWER SERVICE PLAN.
4. SEE SHEET 203 FOR UTILITY CROSSINGS 1 AND 2.

(#) EXISTING UTILITY CROSSING. SEE UTILITY CROSSING INFO SHEET 19.

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800-362-2764 or 8-1-1
www.oups.org

CITY OF COLUMBUS UTILITY LEGEND

- [X] SEWER
- [X] WATER
- [ ] POWER
- [ ] LIGHTING



REFER TO SHEET 13 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

3378-E

0 40 80
HORIZONTAL
SCALE IN FEET

CIP: 540007–100012
PID NUMBER: 99733

COMMUNICATIONS NODE PLAN
I–270 BTW STA. 2362+00 AND STA. 2369+00, NODE #270045.5

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

602
915

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ESTIMATED QUANTITIES

SHEET NO.	REFERENCE NO.	LOCATION	STATION		202	632	632	632	632	632	632	633												
					EXISTING CONDUIT CLEANED, AS PER PLAN	INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 144 STRAND	INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 24 STRAND	INTERCONNECT CABLE, MISC.: FIBER OPTIC FUSION SPLICE	INTERCONNECT, MISC.: PRE-TERMINATED FIBER OPTIC DROP CABLE, 144 STRAND, 150FT	INTERCONNECT, MISC.: SPLICE ENCLOSURE, DOME, 800 SPLICE	INTERCONNECT, MISC.: TERMINATION PANEL, 144 FIBER, 4 RU	CONTROLLER ITEM, MISC.: FIBER OPTIC ETHERNET TRANSCEIVER, SHORT RANGE											
			FROM	TO	FT	FT	FT	EACH	EACH	EACH	EACH	EACH												
I-270 BETWEEN STA. 2362+00 AND 2369+00, NODE #270045.5																								
602	CN-1	I-270	2364+52. 146' LT								2	3												
602	IC-1	I-270	2364+52. 146' LT	2364+46, 140' LT	9				2															
602	SE U-1	I-270	2364+46, 140' LT			75	150	144		1														
SHEET TOTAL					9	75	150	144	2	1	2	3	-	-	-	-	-	-	-	-	-	-	-	-

AERIAL SAG: 1.5% AERIAL SAG IS INCLUDED IN THE QUANTITIES FOR ANY AERIAL FIBER OR CABLE ITEMS.

3378-E

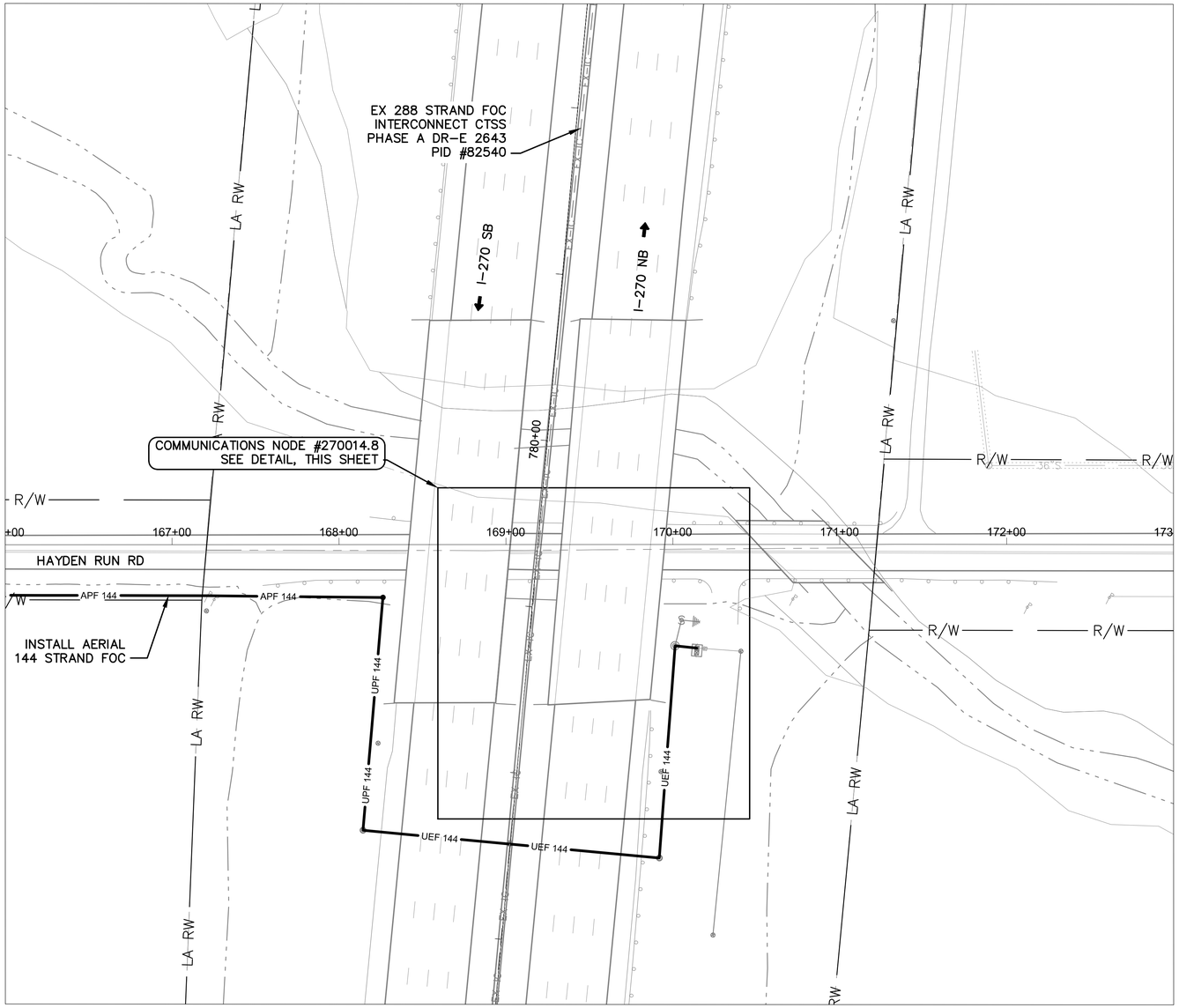
CIP: 540007-100012
PID NUMBER: 99733

I-270 BETWEEN STA. 2362+00 AND 2369+00
NODE #270045.5

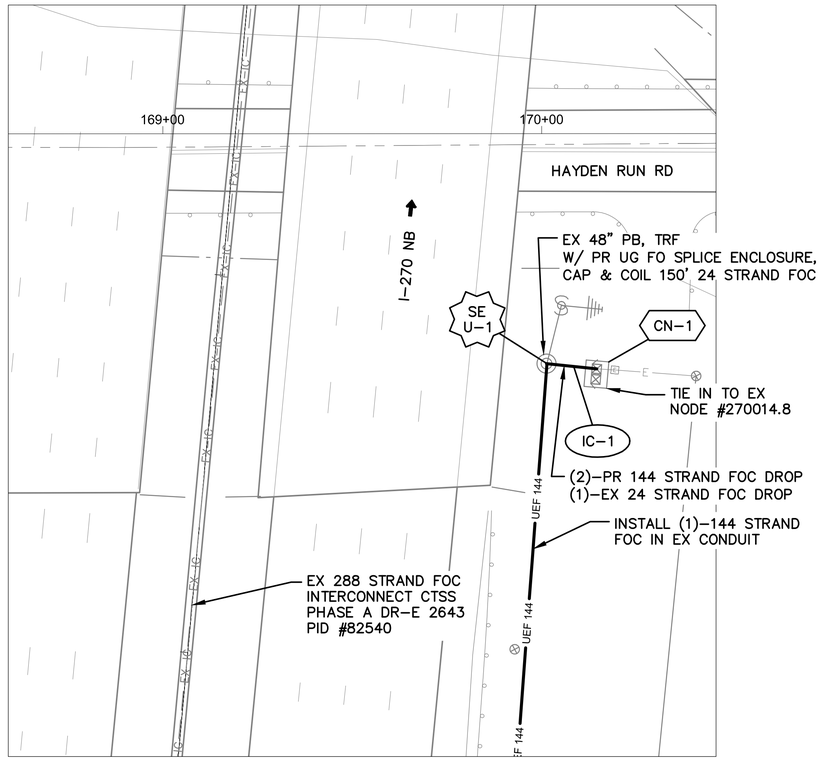
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

603
915

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HAYDEN RUN RD BETWEEN STATION 166+00 AND 173+00



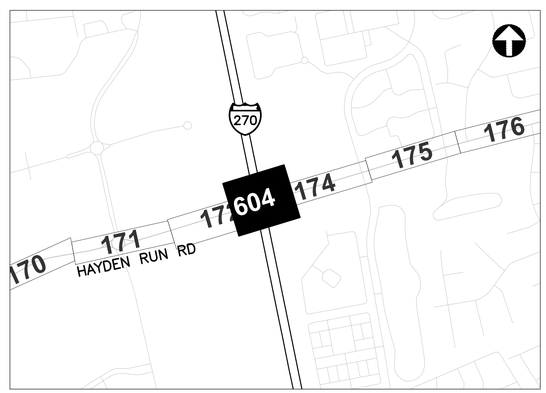
DETAIL - COMMUNICATIONS NODE #270014.8

0 20 40

HORIZONTAL
SCALE IN FEET

NOTES:

1. SEE SHEET 605 FOR QUANTITIES.
2. SEE SHEETS 613, 886 & 887 FOR COMMUNICATION DETAILS.
3. SEE SHEET 172 FOR INTERCONNECT DETAILS.



REFER TO SHEET 7 FOR
INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

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CITY OF COLUMBUS
UTILITY LEGEND

- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING

3378-E

0 40 80
HORIZONTAL
SCALE IN FEET

CIP: 540007-100012
PID NUMBER: 99733

COMMUNICATIONS NODE PLAN
HAYDEN RUN RD BETWEEN STA. 166+00 AND 173+00, NODE #270014.8

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

604
915

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ESTIMATED QUANTITIES

SHEET NO.	REFERENCE NO.	LOCATION	STATION		202	632	632	632	632	632	632	632	632	632	633										
					EXISTING CONDUIT CLEANED, AS PER PLAN	INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 144 STRAND	INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 24 STRAND	INTERCONNECT CABLE, MISC.: FIBER OPTIC FUSION SPLICE	INTERCONNECT, MISC.: DUAL PANEL ASSEMBLY, 24 FIBER, 1 RU, PRE-TERMINATED	INTERCONNECT, MISC.: PRE-TERMINATED FIBER OPTIC DROP CABLE, 144 STRAND, 150FT	INTERCONNECT, MISC.: SPLICE ENCLOSURE, CLAMSHELL, 288 SPLICE	INTERCONNECT, MISC.: SPLICE ENCLOSURE, DOME, 800 SPLICE	INTERCONNECT, MISC.: TERMINATION PANEL, 144 FIBER, 4 RU	INTERCONNECT, MISC.: TERMINATION PANEL, 288 FIBER, 4 RU	CONTROLLER ITEM, MISC.: FIBER OPTIC ETHERNET TRANSCEIVER, SHORT RANGE									
			FROM	TO	FT	FT	FT	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH									
HAYDEN RUN RD. BETWEEN STA. 166+00 AND 173+00, NODE #270014.8																									
604	SE U-1	HAYDEN RUN RD	170+01, 61' RT			75	150	432			1	1													
604	IC-1	HAYDEN RUN RD	170+01, 61' RT	170+14, 62' RT	13					4															
604	CN-1	HAYDEN RUN RD	170+14, 62' RT						1				2	1	2										
SHEET TOTAL					13	75	150	432	1	4	1	1	2	1	2	-	-	-	-	-	-	-	-	-	-

AERIAL SAG: 1.5% AERIAL SAG IS INCLUDED IN THE QUANTITIES FOR ANY AERIAL FIBER OR CABLE ITEMS.

3378-E

CIP: 540007–100012
PID NUMBER: 99733

HAYDEN RUN RD BETWEEN STA. 166+00 AND 173+00
NODE #270014.8

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

605
915

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CITY OF COLUMBUS, OHIO
DEPARTMENT OF PUBLIC SERVICE
DIVISION OF DESIGN AND CONSTRUCTION

CITY OF COLUMBUS
TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E

FRA-COLUMBUS TRAFFIC SIGNAL SYSTEM-PHASE E

VOLUME 3 OF 3



LOCATION MAP

– PROJECT AREA

SCALE IN MILES

0 2 4 8

STUDY AREA
SEE SHEET 2 OF 913

VOL. 1 – INTERCONNECT SHEETS 1 TO 307
VOL. 2 – INTERCONNECT SHEETS 308 TO 605
VOL. 3 – COMMUNICATIONS SHEETS 606 TO 915

INDEX OF VOLUME 3 SHEETS

TITLE SHEET 606
COMMUNICATION LAYOUT – METRO AREA 607-608
SUBNETS MAP 609-610
LAYER 2 COMMUNICATIONS NETWORK 611-632
COMMUNICATION NOTES 633
INTERSECTION COMMUNICATION DIAGRAMS 634-857
COMMUNICATION NODE DIAGRAMS 860-915

FEDERAL PROJECT NUMBER
E080(964)

CIP: 540007-100012
PID NUMBER: 99733

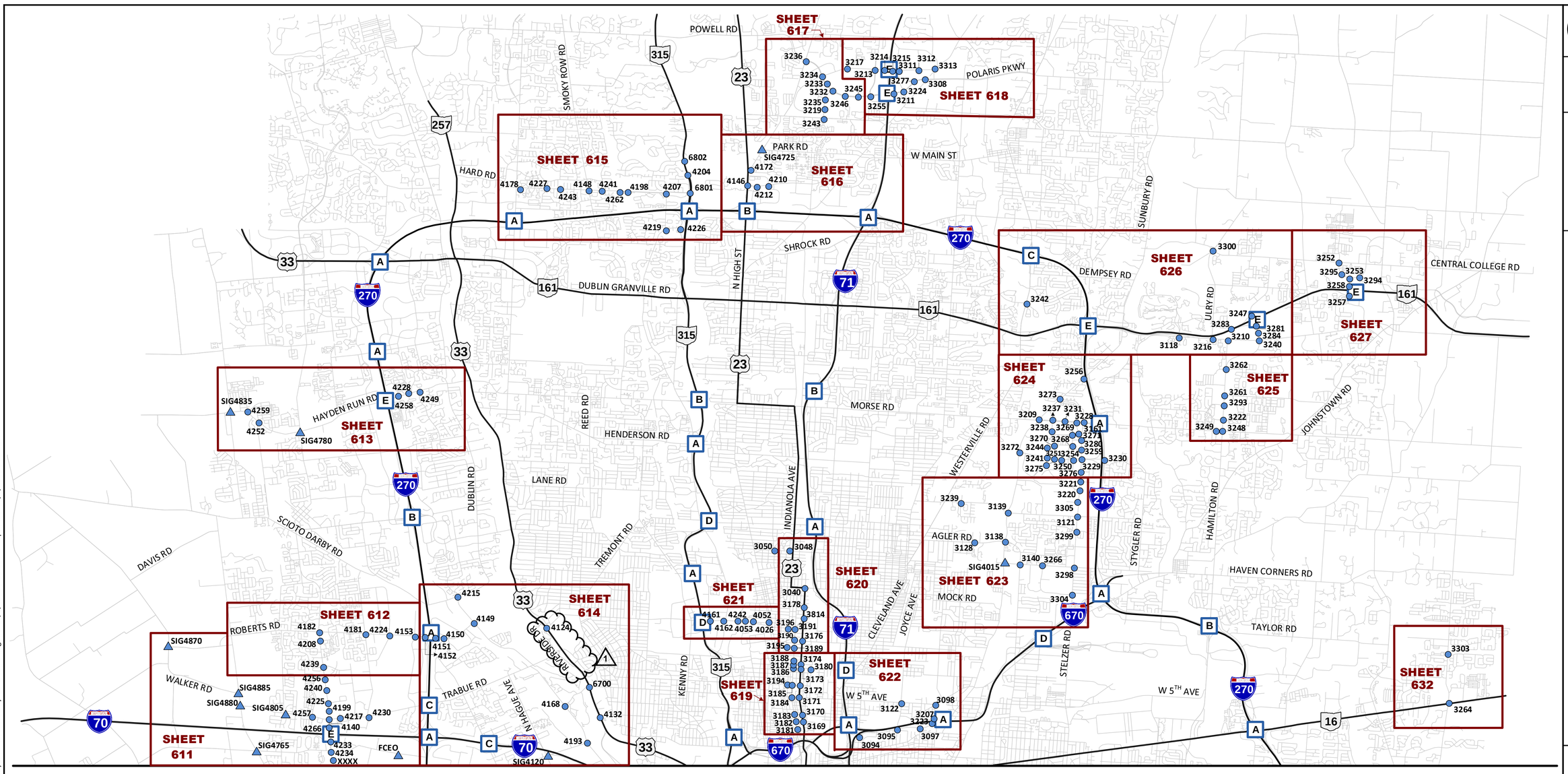
TITLE SHEET
VOLUME 3 OF 3

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

606
915

3378-E

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Legend

- Sheet Layout
- Columbus Signal
- ODOT Signal
- Franklin County Signal
- A CTSS Node – Phase A
- B CTSS Node – Phase B
- C CTSS Node – Phase C
- D CTSS Node – Phase D
- E CTSS Node – Phase E

1 REVISION 1.0 11-02-2018

3378-E

NOT TO SCALE

CIP: 540007 - 100012
PID NUMBER: 99733

COMMUNICATION SHEETS LAYOUT (1 OF 2)

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

607
915

J:\Jobs\63721 CTSS Phase E\TECHPROD\Communications\comm_details.vsd - Page-1 layout ~ last saved by: Sai Geetha Koganti 11/1/2018 9:53:22 AM ~ printed: 11/1/2018 9:53:22 AM

MATCHLINE A – SEE SHEET 607

SHEET 632

SHEET 632

SHEET 631

SHEET 630

SHEET 629

SHEET 628

W BROAD ST
HALL RD
NORTON RD
HARRISBURG PIKE
W MOUND ST
GREENLAWN AVE
FRANK RD
GANTZ RD
HIGH ST
FREBIS AVE
PARSONS AVE
GROVEPORT RD
WILLIAMS RD
ALUM CREEK DR
REFUGEE RD
LIVINGSTON AVE
BRICE RD
CHATTERTON RD
WINCHESTER PIKE
HOOVER RD
JACKSONS PIKE
HENDRON RD
EBRIGHT RD
LONDON GROVEPORT RD

SIG4150

Legend

- Sheet Layout
- Columbus Signal
- ODOT Signal
- Franklin County Signal
- A CTSS Node – Phase A
- B CTSS Node – Phase B
- C CTSS Node – Phase C
- D CTSS Node – Phase D

3378-E

NOT TO SCALE

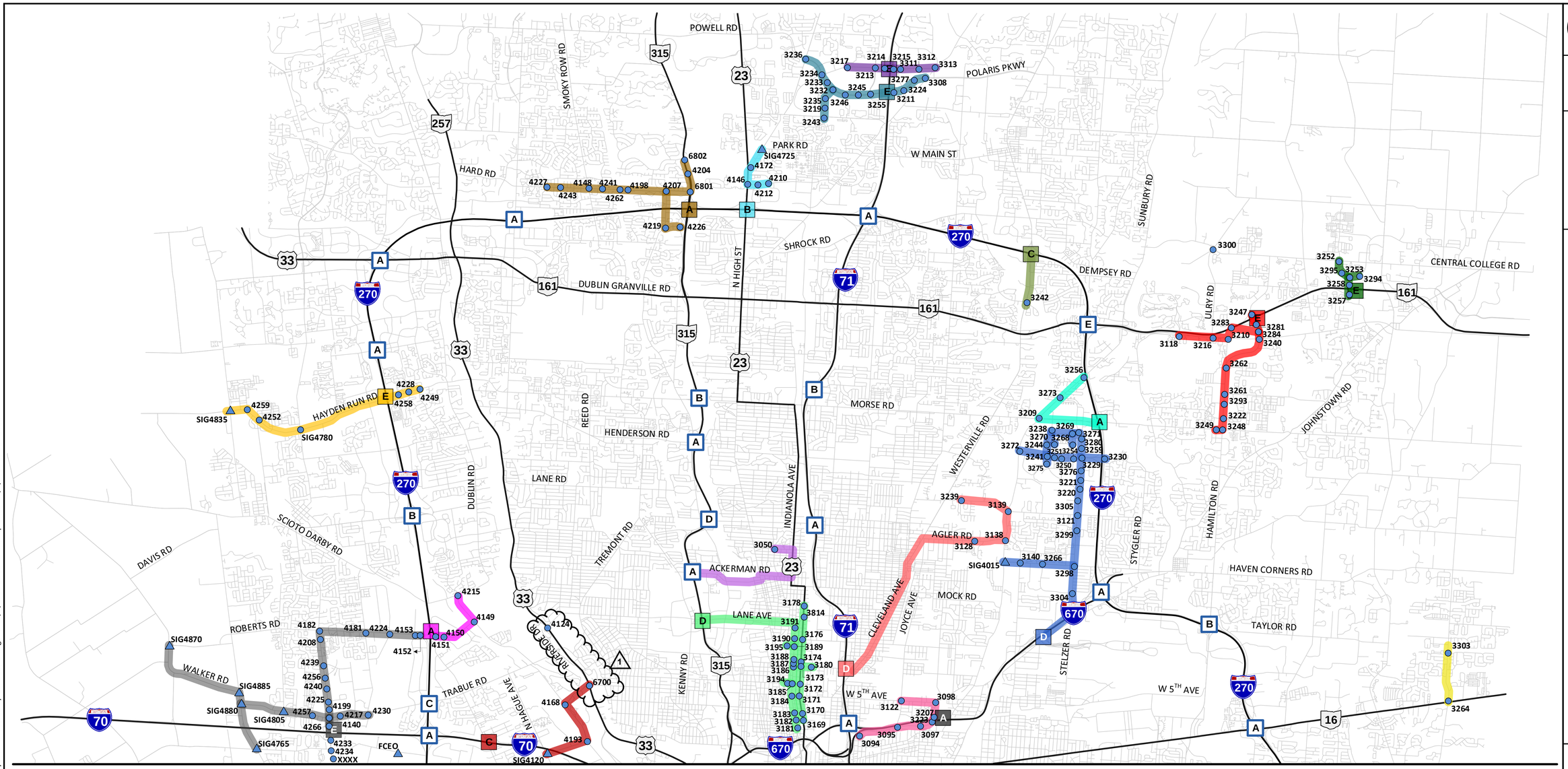
CIP: 540007 - 100012
PID NUMBER: 99733

COMMUNICATION SHEETS LAYOUT (2 OF 2)

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

608
915

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MATCHLINE A – SEE SHEET 610

Legend

- Sheet Layout
- Columbus Signal
- ODOT Signal
- Franklin County Signal
- A CTSS Node – Phase A
- B CTSS Node – Phase B
- C CTSS Node – Phase C
- D CTSS Node – Phase D
- E CTSS Node – Phase E

1 REVISION 1.0 11-02-2018

3378-E

NOT TO SCALE

CIP: 540007 - 100012
PID NUMBER: 99733

SUBNETS MAP LAYOUT (1 OF 2)

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM (CTSS) PHASE E – FINAL SUBMITTAL

609
915

J:\Jobs\63721 CTSS Phase E\TECHPROD\Communications\Subnets_Map.vsd - Page-1 layout ~ last saved by: Sai Geetha Koganti 11/1/2018 10:11:48 AM ~ printed: 11/1/2018 10:11:48 AM

MATCHLINE A – SEE SHEET 609

W BROAD ST
LONG ST
W MOUND ST
GREENLAWN AVE
HALL RD
FREBIS AVE
LIVINGSTON AVE
BRICE RD
NORTON RD
HARRISBURG PIKE
FRANK RD
GANTZ RD
HIGH ST
PARSONS AVE
GROVEPORT RD
WILLIAMS RD
ALUM CREEK DR
REFUGEE RD
CHATTERTON RD
HOOVER RD
JACKSONS PIKE
WINCHESTER PIKE
HENDRON RD
EBRIGHT RD
LONDON GROVEPORT RD

SIG4150

1076 1078 2058 1077 2054 1080 1069 1070 1068 2064 2215 2065 1112 2066 2206 2067 2068 2069 2182 2070 2034 2035 2147 2150 2152 2151 2153 2148 2117 2200 2149 2140 2184 2159

270 70 670 71 62 40 23 104 33

A B C D E F

Legend

- Sheet Layout
- Columbus Signal
- ODOT Signal
- Franklin County Signal
- A CTSS Node – Phase A
- B CTSS Node – Phase B
- C CTSS Node – Phase C
- D CTSS Node – Phase D

3378-E

NOT TO SCALE

CIP: 540007 - 100012
PID NUMBER: 99733

SUBNETS MAP LAYOUT (2 OF 2)

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

610
915

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MATCHLINE A
HILLIARD ROME RD
SHEET 612

LEGEND

Proposed Network Connection
- Outer Line Color Indicates Buffer Tube Used
- Inner Line Colors Indicate Fibers Used

Proposed Fiber Optic Cable
- Fiber Optic Cable
- Layer 2 Ethernet Switch
- Twisted Pair

- A — 10MHz Channel, Center Frequency 4965MHz
- B — 10MHz Channel, Center Frequency 4972.5MHz
- Primary Wireless Link
- Existing Wireless Link

Patching
- P — Crossover Patch at Intersection
- P — Patch at Intersection
- P — Existing Crossover Patch at Intersection
- P — Existing Patch at Intersection

WALKER RD
ROBERTS RD
SIG4870
SEE SHEET 634
SIG4885
SEE SHEET 635
WALKER RD
SIG4880
SEE SHEET 636
SPINDLER RD
SIG4805
SEE SHEET 638
TANGLEWOOD PARK BLVD
4257
SEE SHEET 639
RENNER RD
BLOOMINGTON BLVD
4266
SEE SHEET 647
GIANT EAGLE
4240
SEE SHEET 650
WESTCHESTER WOODS BLVD
4225
SEE SHEET 649
MEIJER STORE DR
4199
SEE SHEET 648
WESTPOINTE PLAZA DR
4217
SEE SHEET 641
WALCUTT RD
4230
SEE SHEET 642
TRABUE RD
4140
SEE SHEET 640
RENTRA DR
WALCUTT CT
I-70 WB ON RAMP
I-70 WB OFF RAMP
INTERSTATE 70
I-70 EB OFF RAMP
TO BACKBONE
NODE 070091.2
SEE SHEET 860
MATCHLINE J
I-70
SHEET 614
ALTON DARBY CREEK RD
SIG4765
SEE SHEET 637
FEDER RD
FISHER RD
I-70 EB ON RAMP
4233
SEE SHEET 646
4234
SEE SHEET 645
HILLIARD ROME RD
XXXX
SEE SHEET 644
MENARDS
FRANKLIN COUNTY ENGINEER'S OFFICE OUTPOST
4444 FISHER RD.
SEE SHEET 643

Intersections will be connected to TMC through cellular ethernet modem network.

1 REVISION 1.0
11-02-2018

3378-E

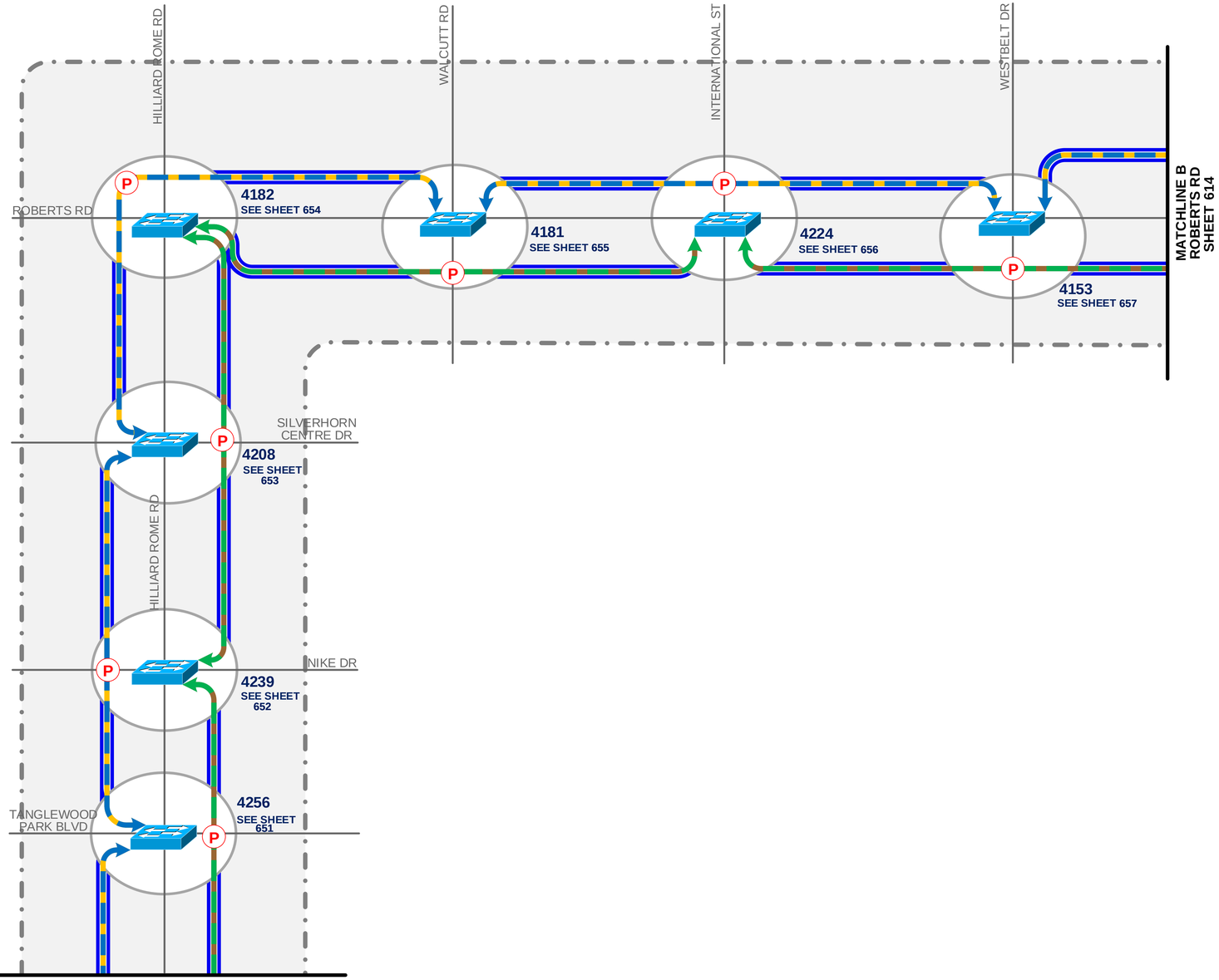
NOT TO SCALE

CIP: 540007 - 100012
PID NUMBER: 99733

HILLIARD ROME RD

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

611
915



LEGEND

- A — 10MHz Channel, Center Frequency 4965MHz
- B — 10MHz Channel, Center Frequency 4972.5MHz

Proposed Network Connection

- Outer Line Color Indicates Buffer Tube Used
- Inner Line Colors Indicate Fibers Used
- Primary Wireless Link
- Existing Wireless Link

Patching

- P — Crossover Patch at Intersection
- P — Patch at Intersection
- P — Existing Crossover Patch at Intersection
- P — Existing Patch at Intersection

Proposed Fiber Optic Cable

- Fiber Optic Cable
- Layer 2 Ethernet Switch
- Twisted Pair

NOT TO SCALE

CIP: 540007 - 100012
PID NUMBER: 99733

HILLIARD ROME RD

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

612
915

3378-E

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To Node
270017.3

INTERSTATE 270

TO BACKBONE
NODE 270015.6

SEE SHEET
888

COSGRAY RD

SIG4835
SEE SHEET 671

HAYDEN RUN RD

HAYDEN RUN BLVD

4259
SEE SHEET 672

BOW FALLS BLVD

4252
SEE SHEET 673

SIG4780
SEE SHEET 674

COSGRAY RD

LEPPERT RD

AVERY RD

TO BACKBONE
NODE 270014.8

SEE SHEET
886

4258
SEE SHEET 675

EDWARDS FARMS RD

CAMDEN PLACE DR

4228
SEE SHEET 676

STONEBRIDGE CROSSING DR

DEXTER FALLS RD

4249
SEE SHEET 677

HAYDEN RUN RD

INTERSTATE 270

TO BACKBONE
NODE 270012.6

SEE SHEET
885

MATCHLINE Z
IR-270
SHEET 614

LEGEND

Proposed Network Connection
- Outer Line Color Indicates Buffer Tube Used
- Inner Line Colors Indicate Fibers Used

Proposed Fiber Optic Cable
- Fiber Optic Cable
- Layer 2 Ethernet Switch
- Twisted Pair

- A — 10MHz Channel Center Frequency 4965MHz
- B — 10MHz Channel Center Frequency 4972.5MHz
- Primary Wireless Link
- Existing Wireless Link

Patching
- P — Crossover Patch at Intersection
- P — Patch at Intersection
- P — Existing Crossover Patch at Intersection
- P — Existing Patch at Intersection

NOT TO SCALE

CIP: 540007 - 100012
PID NUMBER: 99733

HAYDEN RUN RD

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

3378-E

MATCHLINE Z
IR-270
SHEET 613

MATCHLINE B
ROBERTS RD
SHEET 612

MATCHLINE J
I-70
SHEET 611

ROBERTS RD

I-270 SB OFF RAMP

I-270 NB ON RAMP

I-270 SB ON RAMP

I-270 NB OFF RAMP

WILSON RD

DUBLIN RD

SCIOTO DARBY CREEK RD

RIVERSIDE DR

GREYCLIFF LN

LANE AVE

HAGUE AVE

MCKINLEY AVE

FIFTH AVE

STELLA CT

I-70 WB RAMPS

I-670 EB RAMPS

FISHER RD

VALLEYVIEW DR

STEELE AVE

4152
SEE SHEET 658

4151
SEE SHEET 659

4150
SEE SHEET 660

4149
SEE SHEET 662

4215
SEE SHEET 661

4124
SEE SHEET 667

4168
SEE SHEET 663

4250

6700
SEE SHEET 669

4132
SEE SHEET 670

4193
SEE SHEET 664

4232
SEE SHEET 666

6710

1047
SEE SHEET 666

SIG4120
SEE SHEET 665

TO BACKBONE
NODE 270010.5

SEE SHEET
883

SEE SHEET
882

TO BACKBONE
NODE 270009.3

TO BACKBONE
NODE 270008.7

SEE SHEET
880

TO BACKBONE
NODE 070094.1

To Node
270004.5

To Node
070096.0

BREAKLINE
NORTH TO INT SIG4160:
EL PASO DR. AT HAGUE
AVE.

BREAKLINE
WEST TO INT 4135:
VALLEYVIEW DR. AT
WILSON RD.

BREAKLINE
SOUTH TO INT 1046: HAGUE AVE. AT
W. BROAD ST.

BREAKLINE SOUTH
TO INT 4131: URLIN AVE.
AT DUBLIN RD.

LEGEND

Proposed Network Connection
- Outer Line Color Indicates Buffer Tube Used
- Inner Line Colors Indicate Fibers Used

Proposed Fiber Optic Cable
- Fiber Optic Cable
- Layer 2 Ethernet Switch
- Twisted Pair

- A — 10MHz Channel Center Frequency 4965MHz
- B — 10MHz Channel Center Frequency 4972.5MHz
- Primary Wireless Link
- Existing Wireless Link

Patching
- P — Crossover Patch at Intersection
- P — Patch at Intersection
- P — Existing Crossover Patch at Intersection
- P — Existing Patch at Intersection

1 REVISION 1.0
11-02-2018

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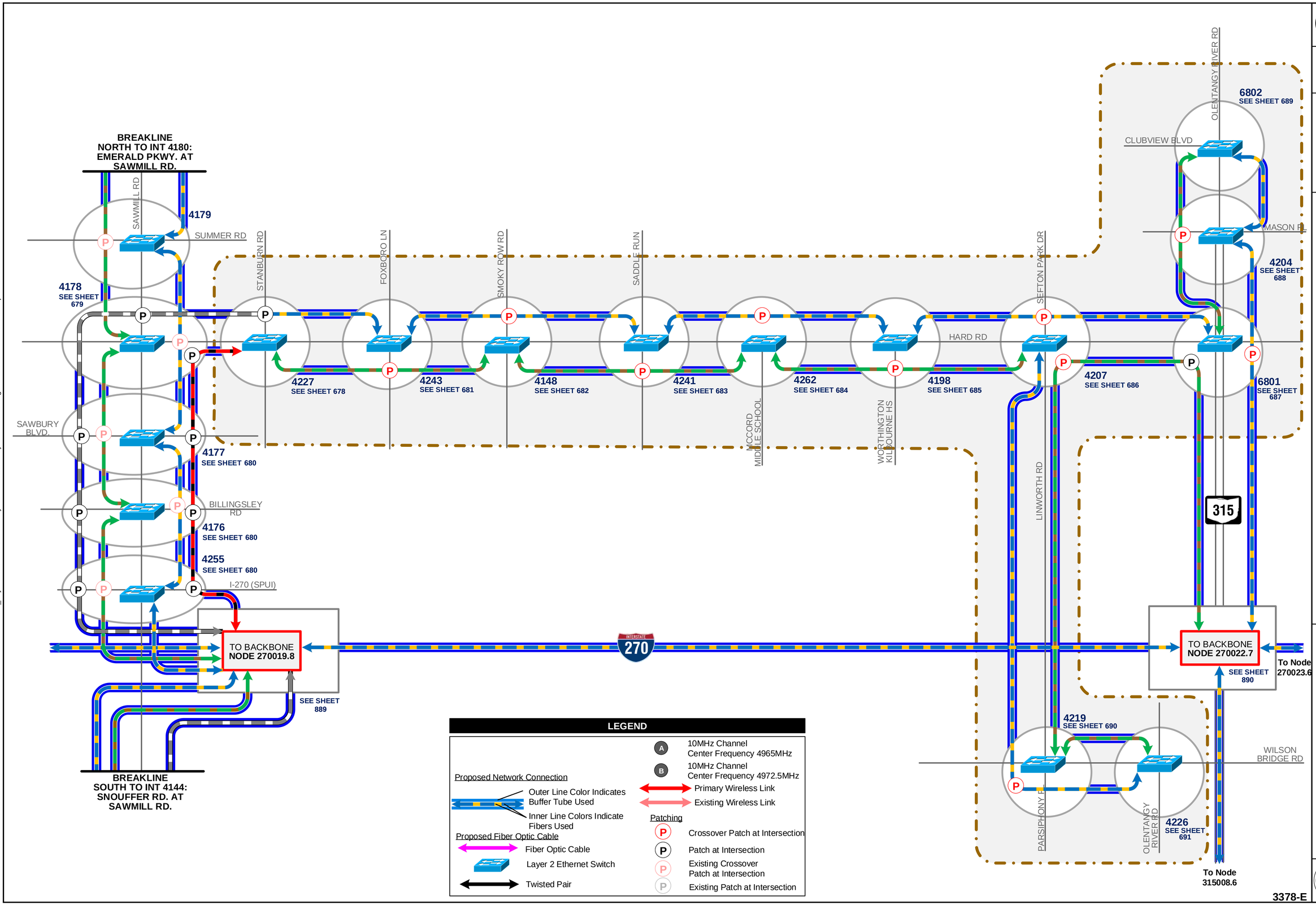
RIVERSIDE DR

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

614
915

3378-E

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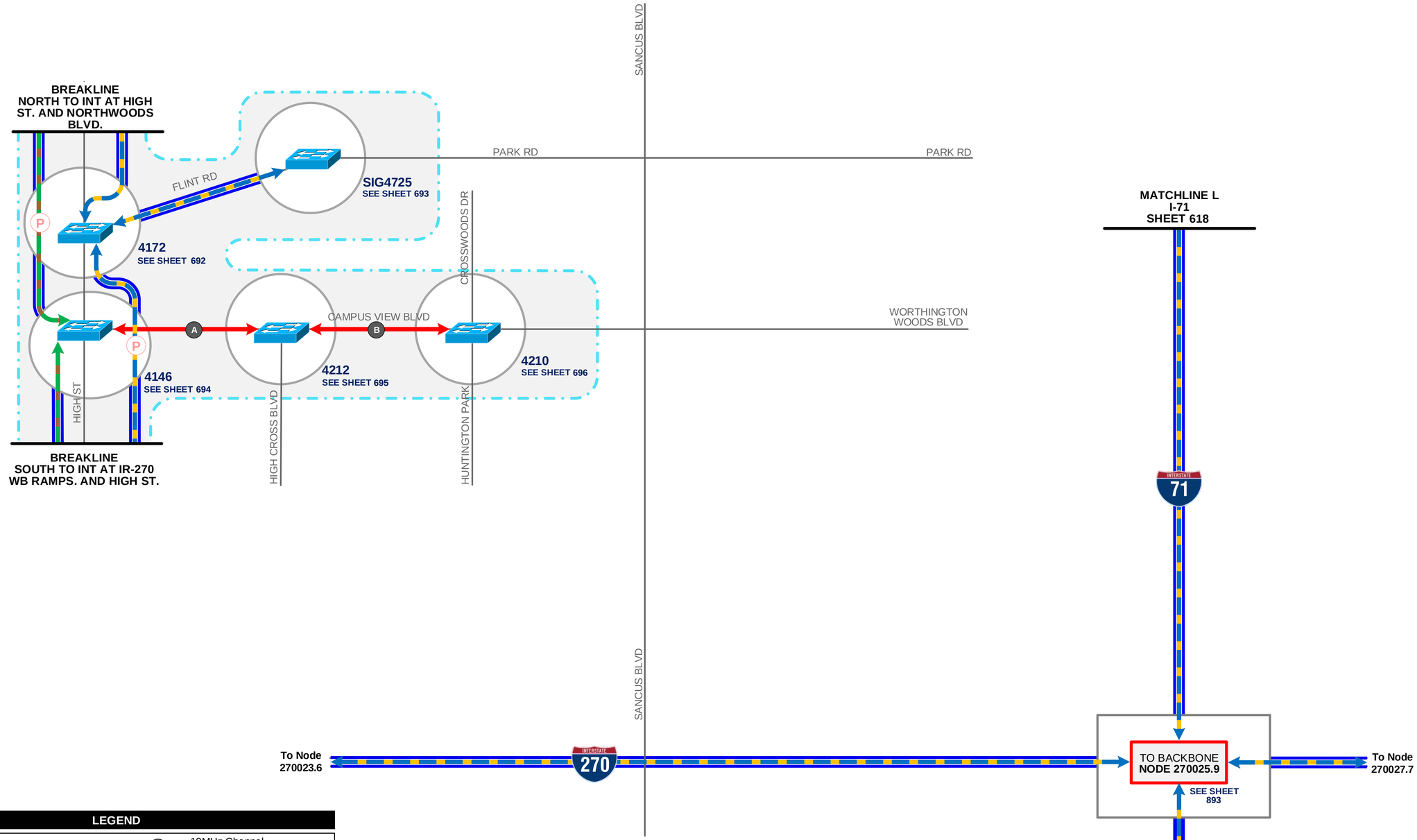
HARD RD

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

615
915

3378-E

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LEGEND

- A — 10MHz Channel, Center Frequency 4965MHz
- B — 10MHz Channel, Center Frequency 4972.5MHz
- Primary Wireless Link
- Existing Wireless Link

Proposed Network Connection

- Outer Line Color Indicates Buffer Tube Used
- Inner Line Colors Indicate Fibers Used

Proposed Fiber Optic Cable

- Fiber Optic Cable
- Layer 2 Ethernet Switch
- Twisted Pair

Patching

- P — Crossover Patch at Intersection
- P — Patch at Intersection
- P — Existing Crossover Patch at Intersection
- P — Existing Patch at Intersection

NOT TO SCALE

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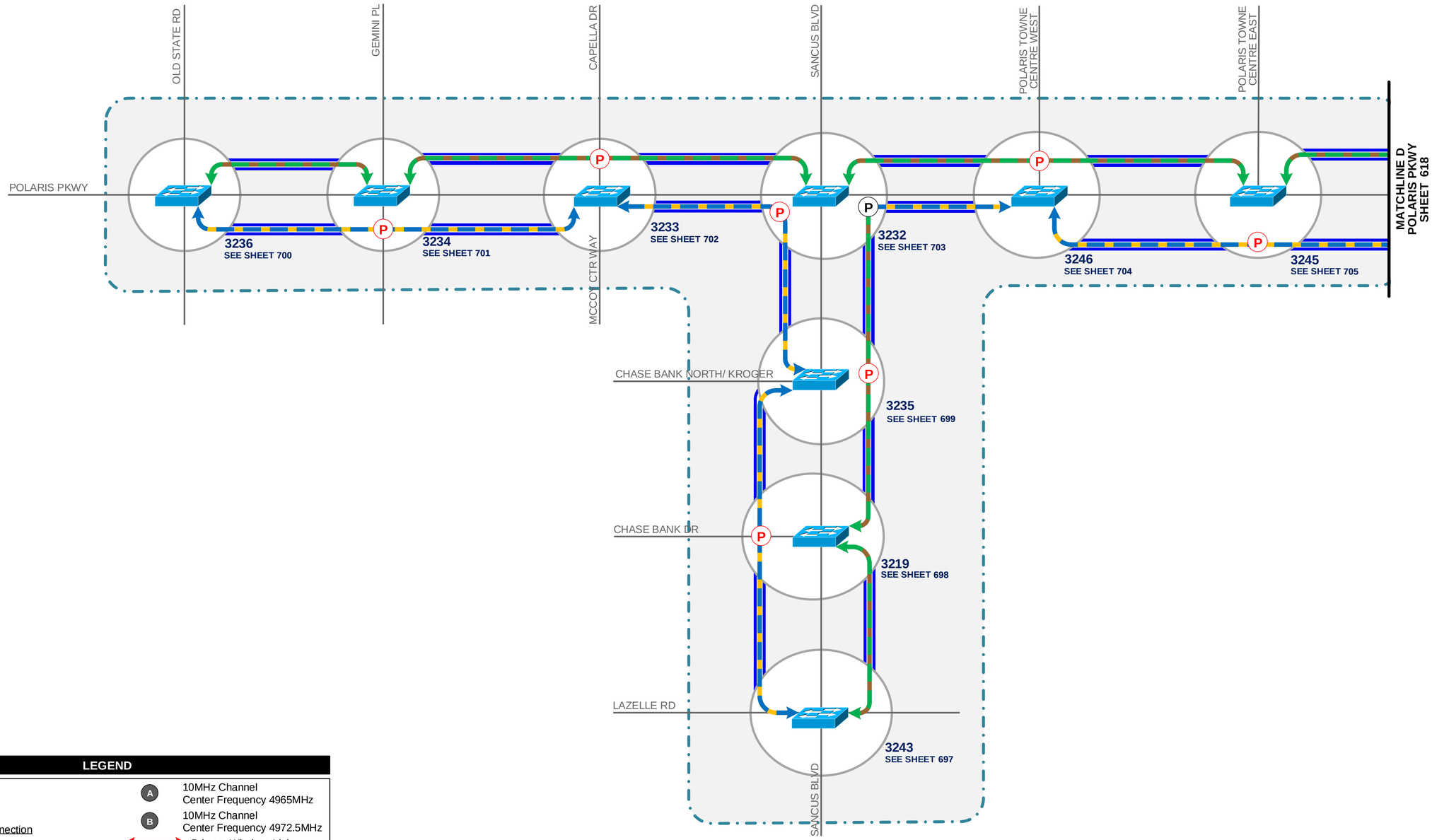
SANCUS BLVD

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

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3378-E

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LEGEND

Proposed Network Connection

Outer Line Color Indicates Buffer Tube Used

Inner Line Colors Indicate Fibers Used

Proposed Fiber Optic Cable

Fiber Optic Cable

Layer 2 Ethernet Switch

Twisted Pair

A — 10MHz Channel Center Frequency 4965MHz

B — 10MHz Channel Center Frequency 4972.5MHz

Primary Wireless Link

Existing Wireless Link

Patching

P — Crossover Patch at Intersection

P — Patch at Intersection

P — Existing Crossover Patch at Intersection

P — Existing Patch at Intersection

NOT TO SCALE

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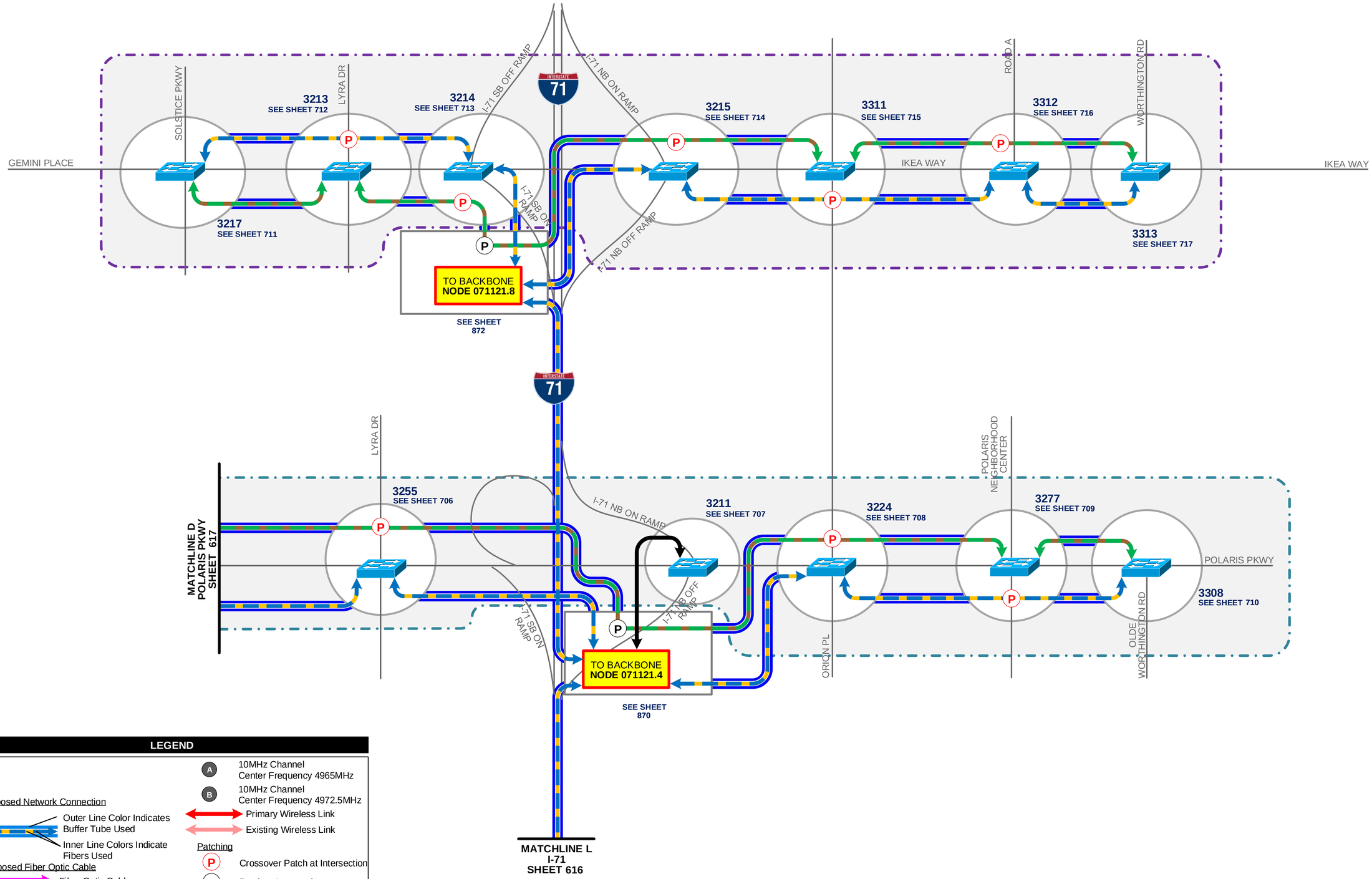
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CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

617
915

3378-E

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LEGEND

- Proposed Network Connection
  - Outer Line Color Indicates Buffer Tube Used
  - Inner Line Colors Indicate Fibers Used
- Proposed Fiber Optic Cable
  - Fiber Optic Cable
  - Layer 2 Ethernet Switch
  - Twisted Pair
- A — 10MHz Channel, Center Frequency 4965MHz
- B — 10MHz Channel, Center Frequency 4972.5MHz
- Primary Wireless Link
- Existing Wireless Link
- Patching
  - P — Crossover Patch at Intersection
  - P — Patch at Intersection
  - P — Existing Crossover Patch at Intersection
  - P — Existing Patch at Intersection

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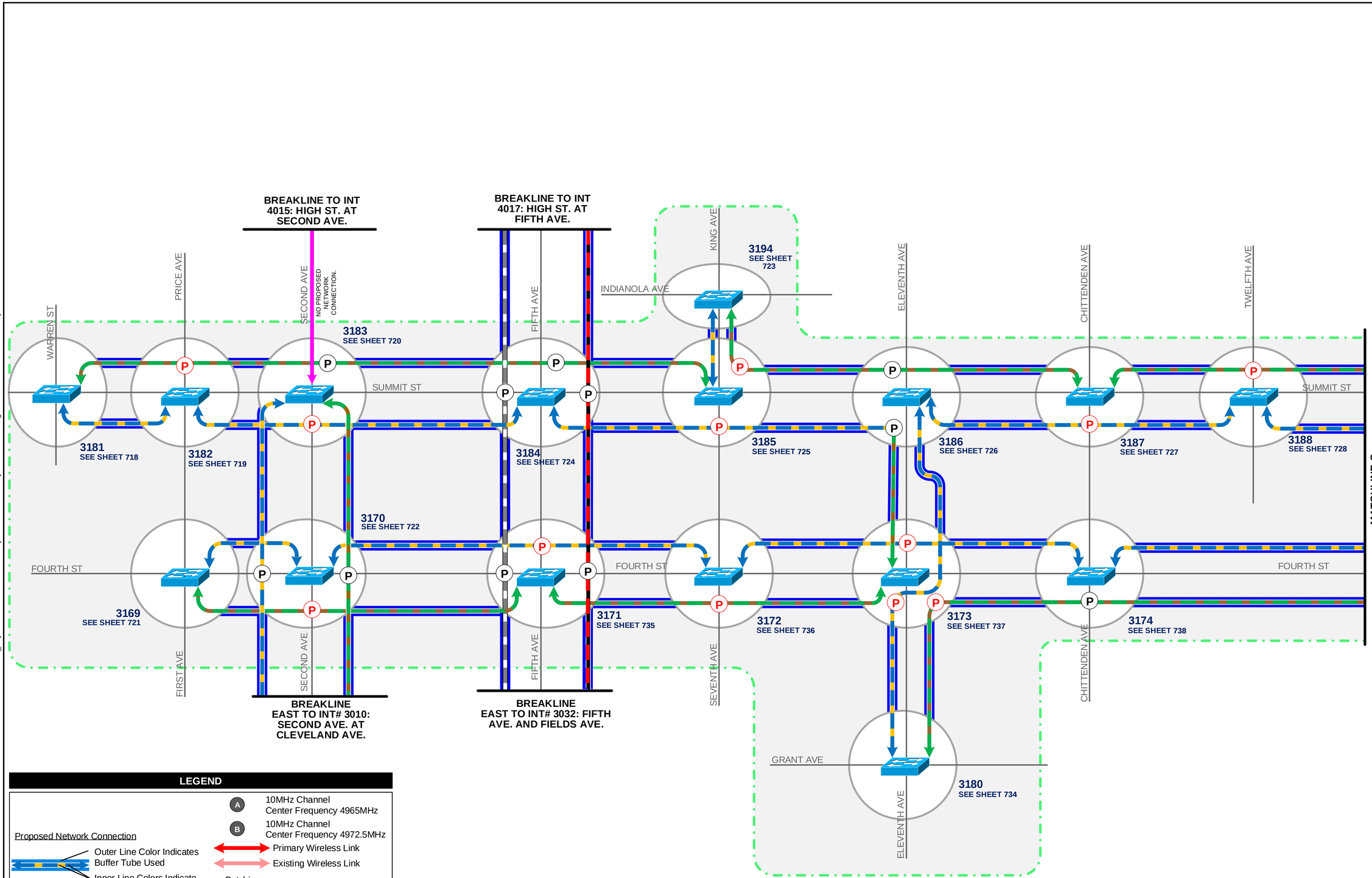
POLARIS PKWY

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

618
915

3378-E

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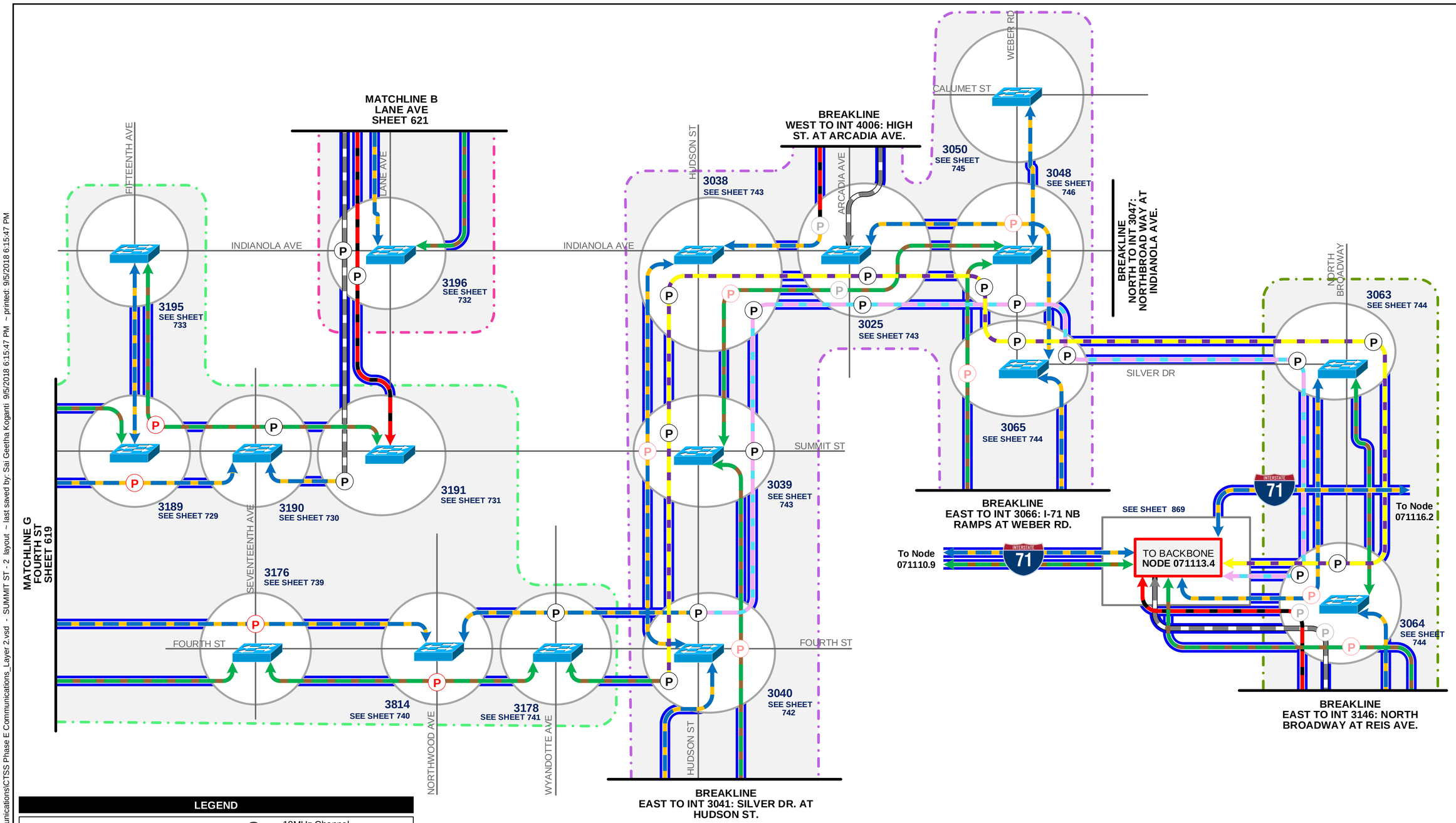
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SUMMIT ST

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM (CTSS) PHASE E – FINAL SUBMITTAL

619
915

3378-E



LEGEND

Proposed Network Connection
- Outer Line Color Indicates Buffer Tube Used
- Inner Line Colors Indicate Fibers Used

Proposed Fiber Optic Cable
- Fiber Optic Cable
- Layer 2 Ethernet Switch
- Twisted Pair

- A — 10MHz Channel Center Frequency 4965MHz
- B — 10MHz Channel Center Frequency 4972.5MHz
- Primary Wireless Link
- Existing Wireless Link

Patching
- P — Crossover Patch at Intersection
- P — Patch at Intersection
- P — Existing Crossover Patch at Intersection
- P — Existing Patch at Intersection

NOT TO SCALE

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PID NUMBER: 99733

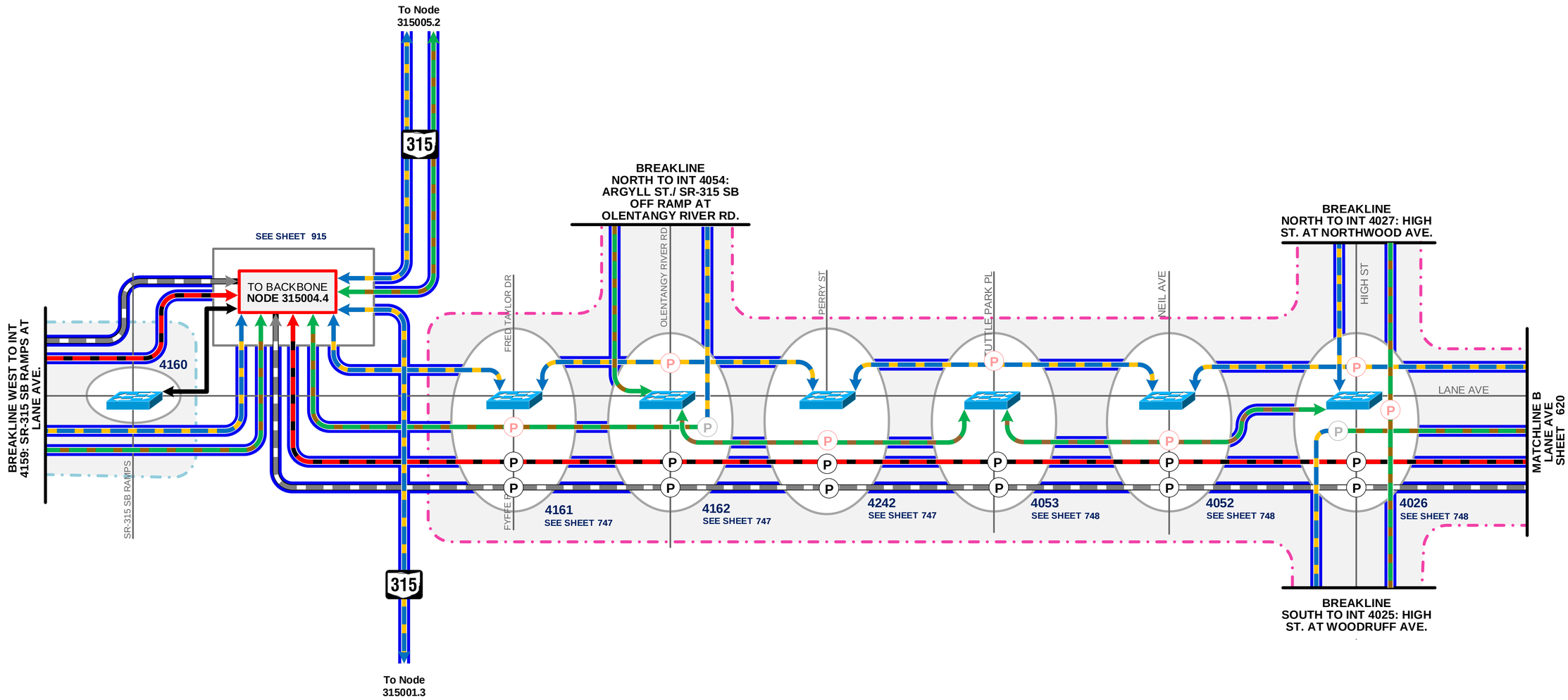
SUMMIT ST

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

620
915

3378-E

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LEGEND

- A — 10MHz Channel, Center Frequency 4965MHz
- B — 10MHz Channel, Center Frequency 4972.5MHz
- Primary Wireless Link
- Existing Wireless Link

Proposed Network Connection

- Outer Line Color Indicates Buffer Tube Used
- Inner Line Colors Indicate Fibers Used

Proposed Fiber Optic Cable

- Fiber Optic Cable
- Layer 2 Ethernet Switch
- Twisted Pair

Patching

- P — Crossover Patch at Intersection
- P — Patch at Intersection
- P — Existing Crossover Patch at Intersection
- P — Existing Patch at Intersection

3378-E

NOT TO SCALE

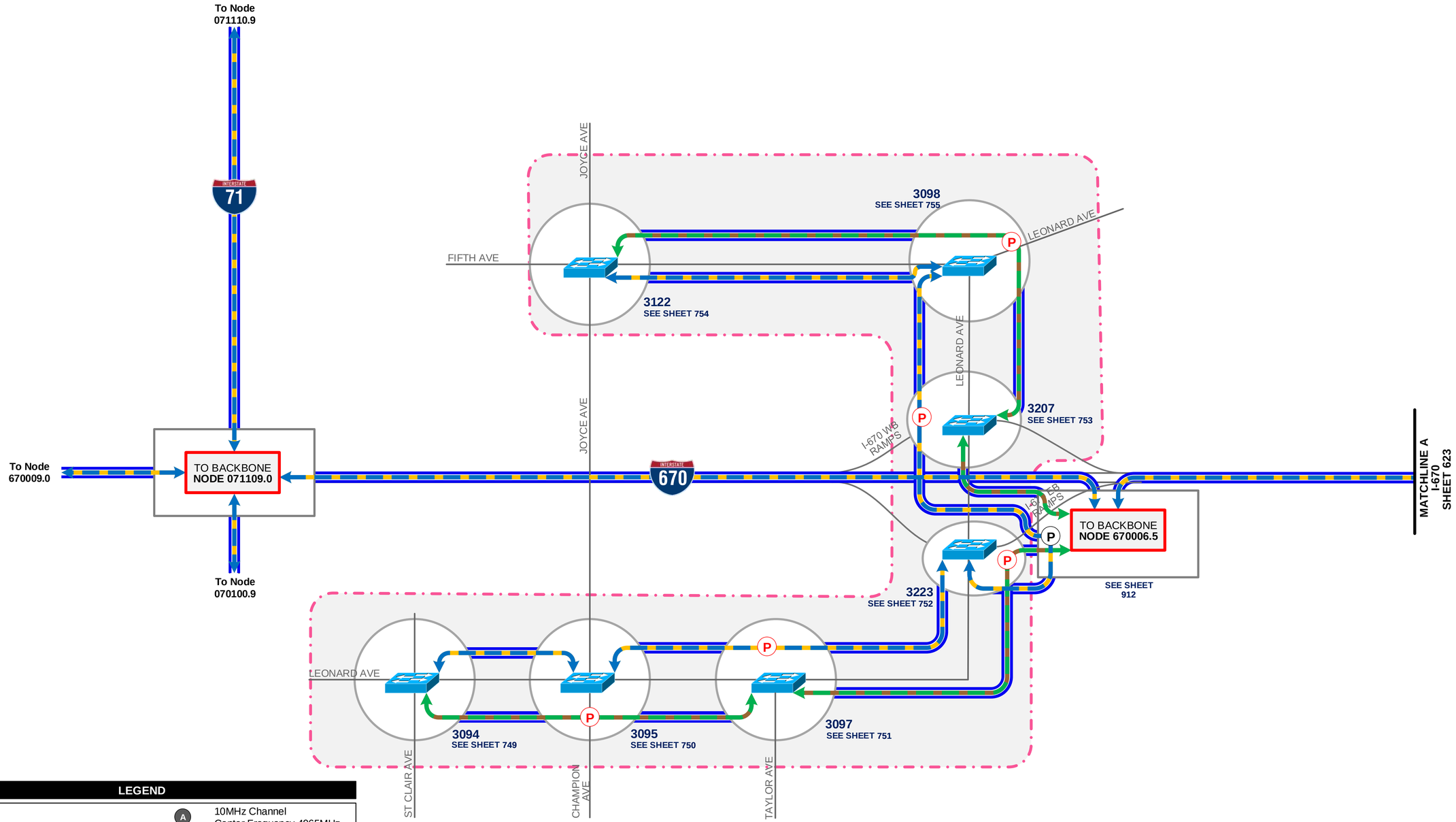
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LANE AVE

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

621
915

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LEGEND

Proposed Network Connection

Outer Line Color Indicates Buffer Tube Used

Inner Line Colors Indicate Fibers Used

Proposed Fiber Optic Cable

Fiber Optic Cable

Layer 2 Ethernet Switch

Twisted Pair

A — 10MHz Channel Center Frequency 4965MHz

B — 10MHz Channel Center Frequency 4972.5MHz

Primary Wireless Link

Existing Wireless Link

Patching

P — Crossover Patch at Intersection

P — Patch at Intersection

P — Existing Crossover Patch at Intersection

P — Existing Patch at Intersection

NOT TO SCALE

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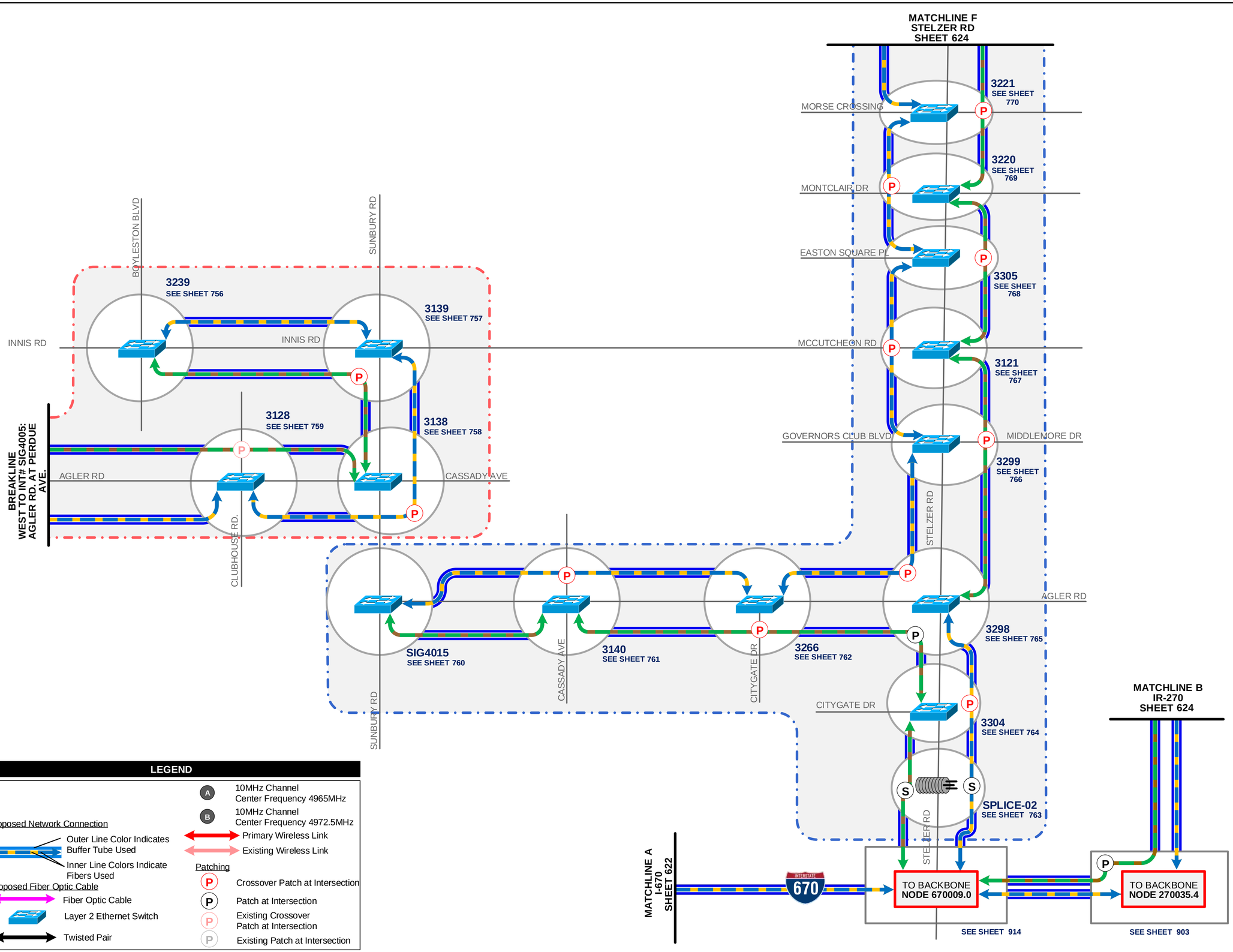
FIFTH AVE

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

622
915

3378-E

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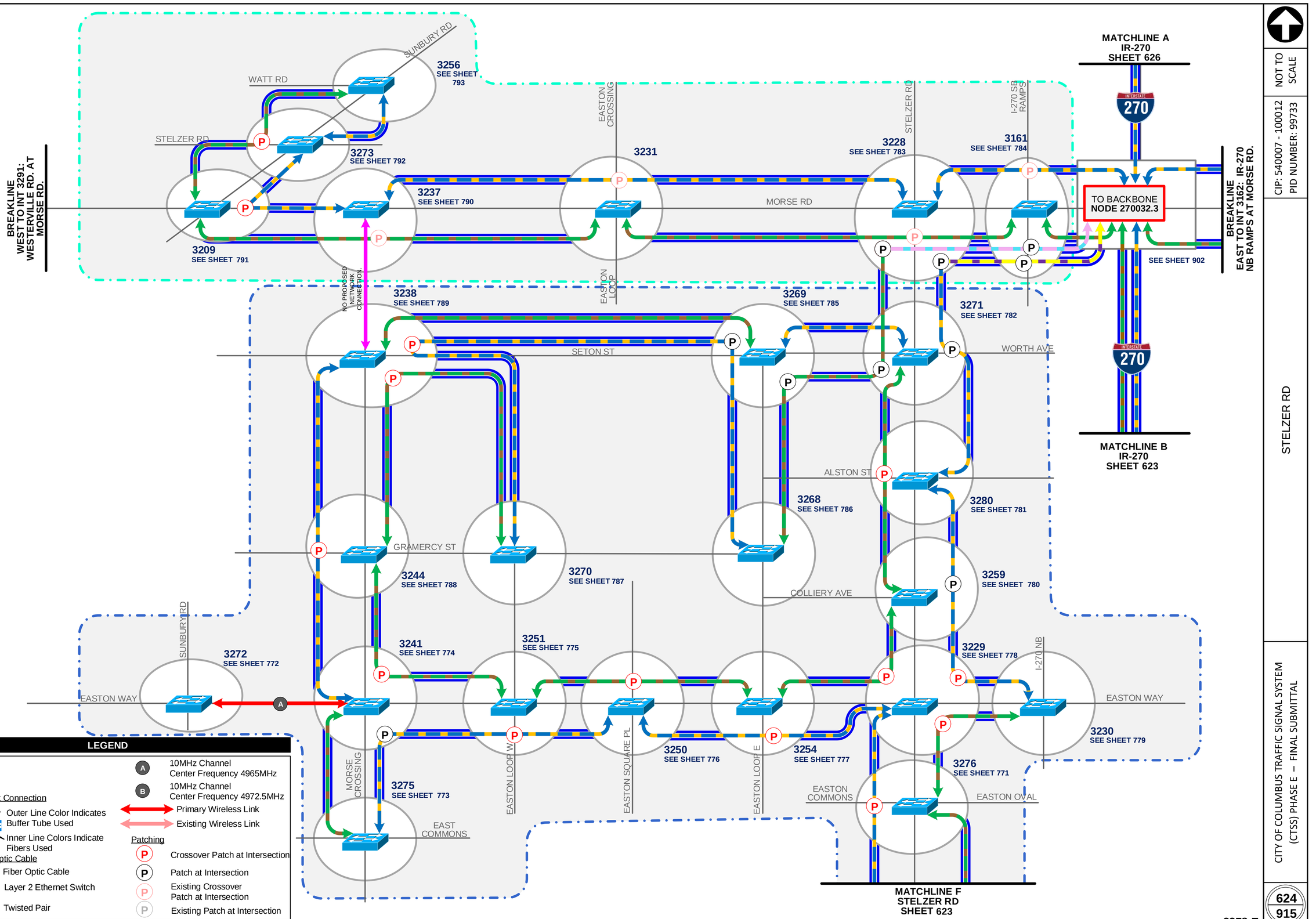
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STELZER RD

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

3378-E



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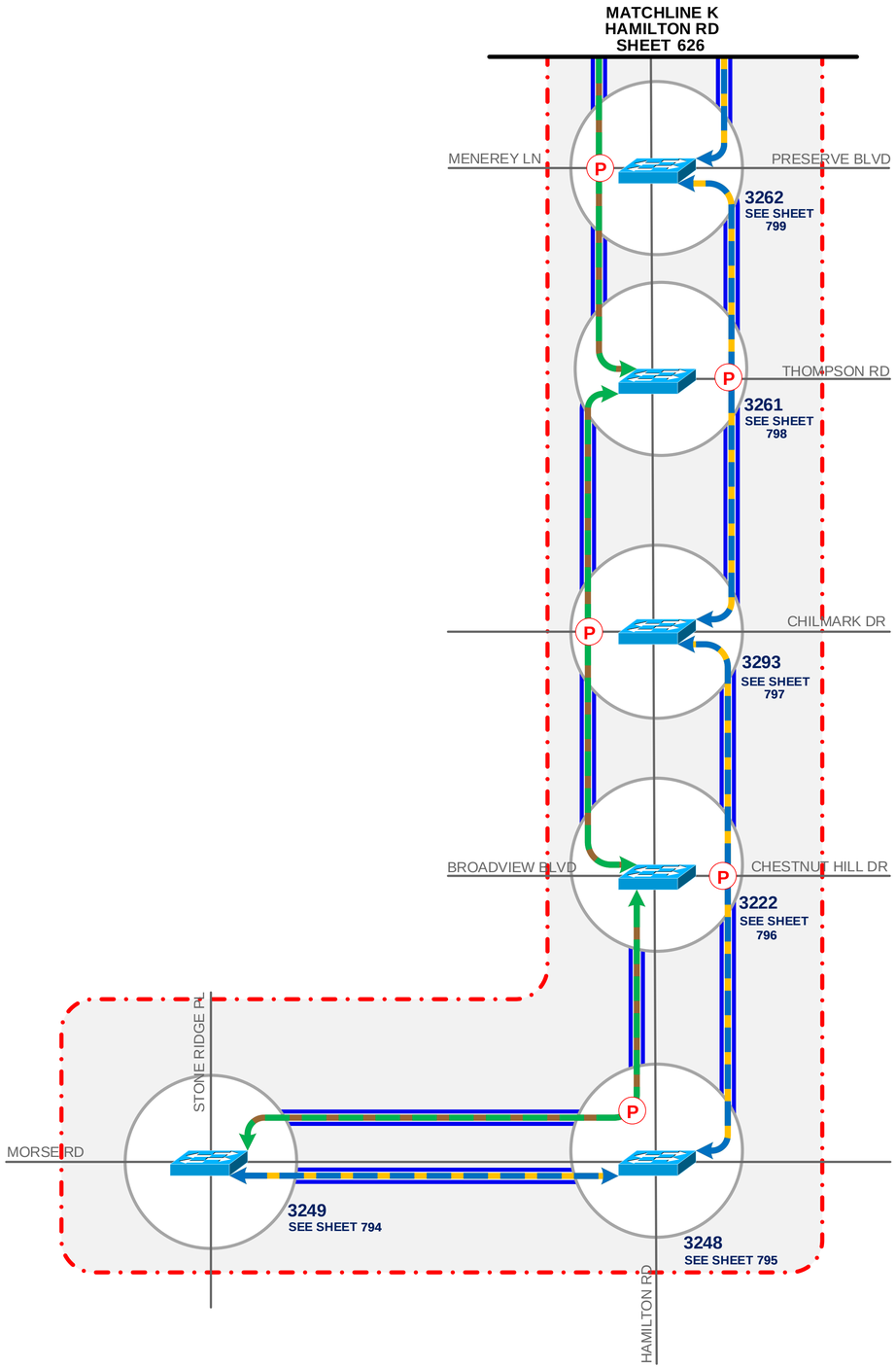
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STELZER RD

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

624
915

3378-E



LEGEND

Proposed Network Connection

Outer Line Color Indicates Buffer Tube Used

Inner Line Colors Indicate Fibers Used

Proposed Fiber Optic Cable

Fiber Optic Cable

Layer 2 Ethernet Switch

Twisted Pair

A 10MHz Channel Center Frequency 4965MHz

B 10MHz Channel Center Frequency 4972.5MHz

Primary Wireless Link

Existing Wireless Link

Patching

P Crossover Patch at Intersection

P Patch at Intersection

P Existing Crossover Patch at Intersection

P Existing Patch at Intersection

NOT TO SCALE

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PID NUMBER: 99733

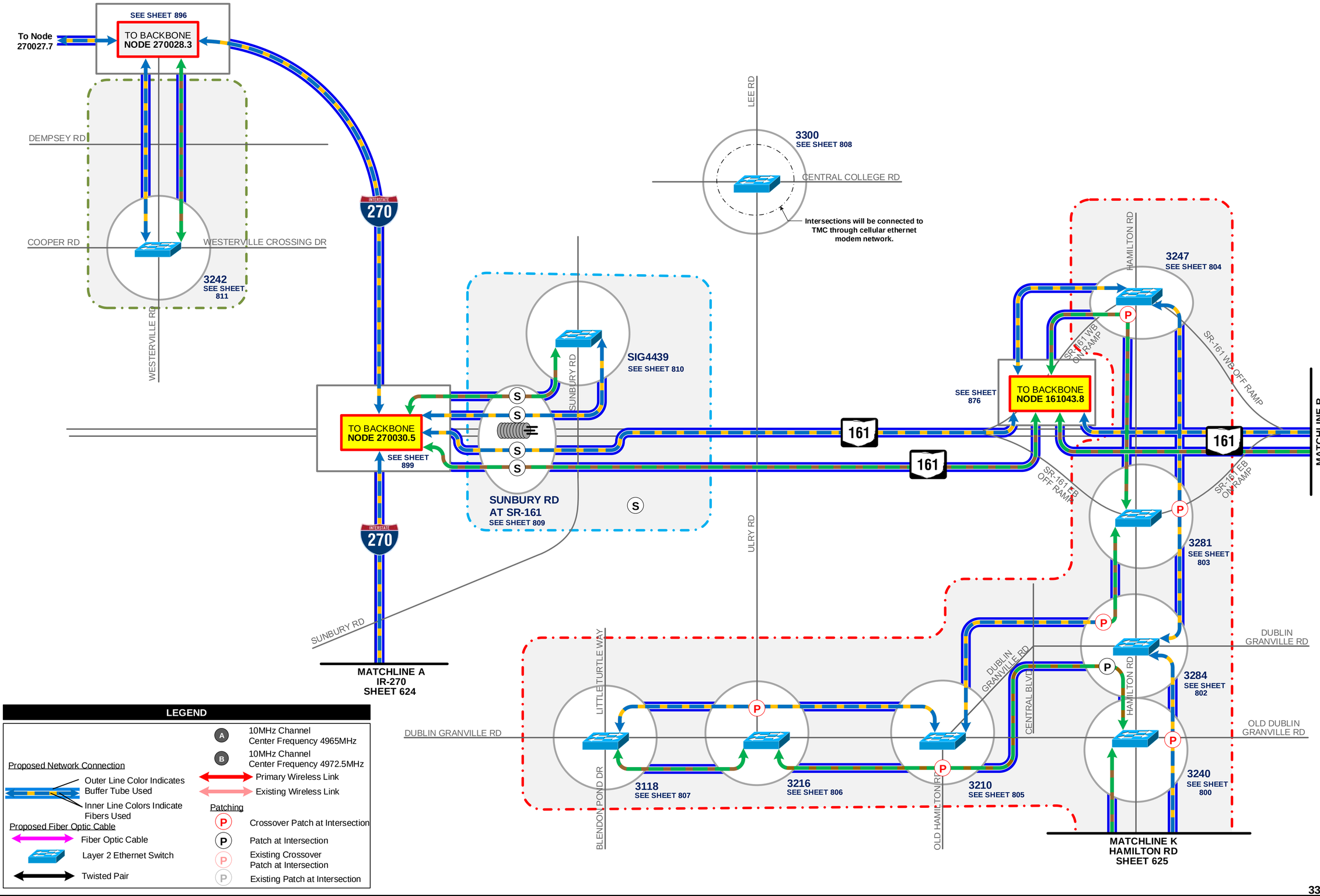
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CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

625
915

3378-E

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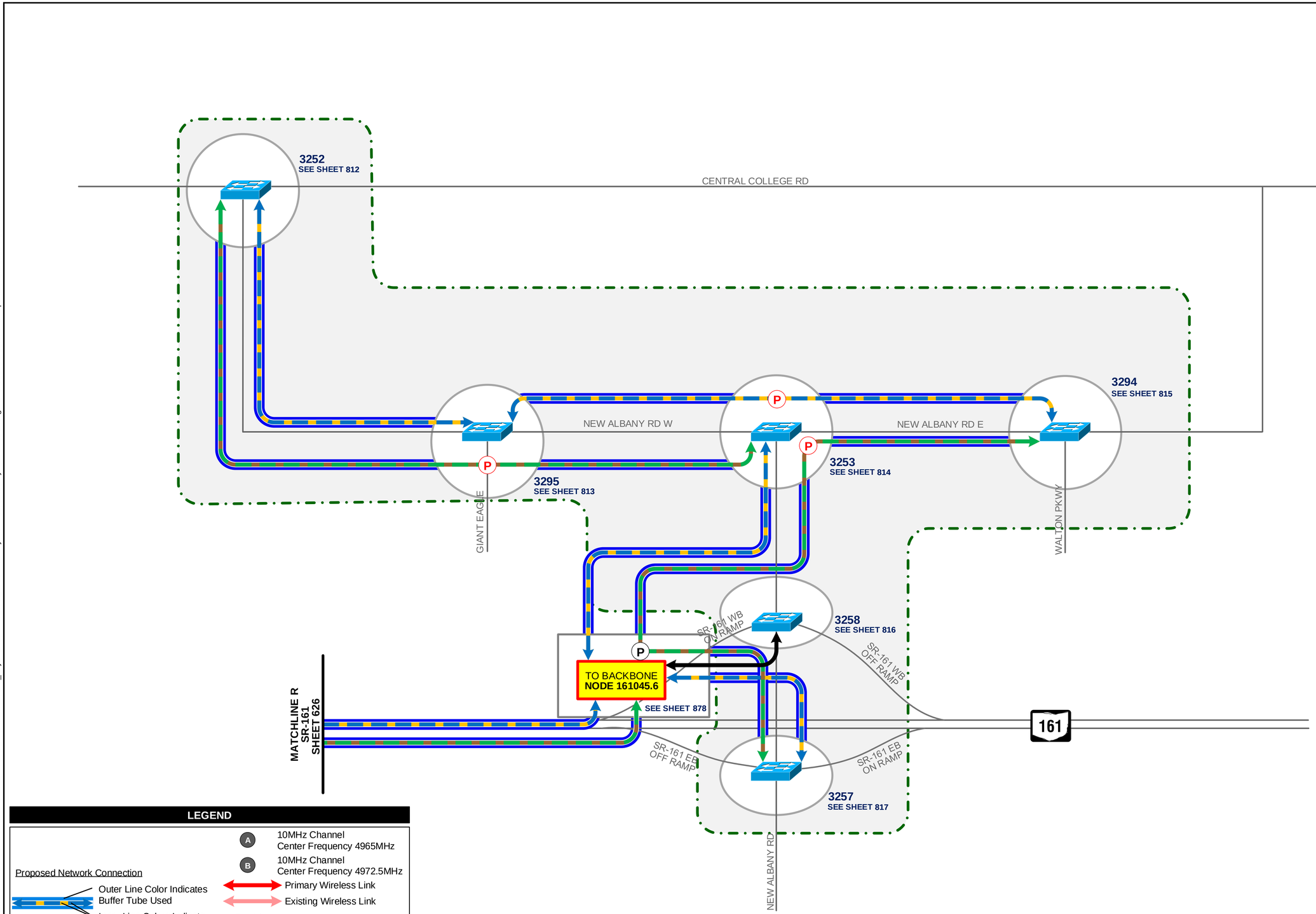
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CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

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3378-E

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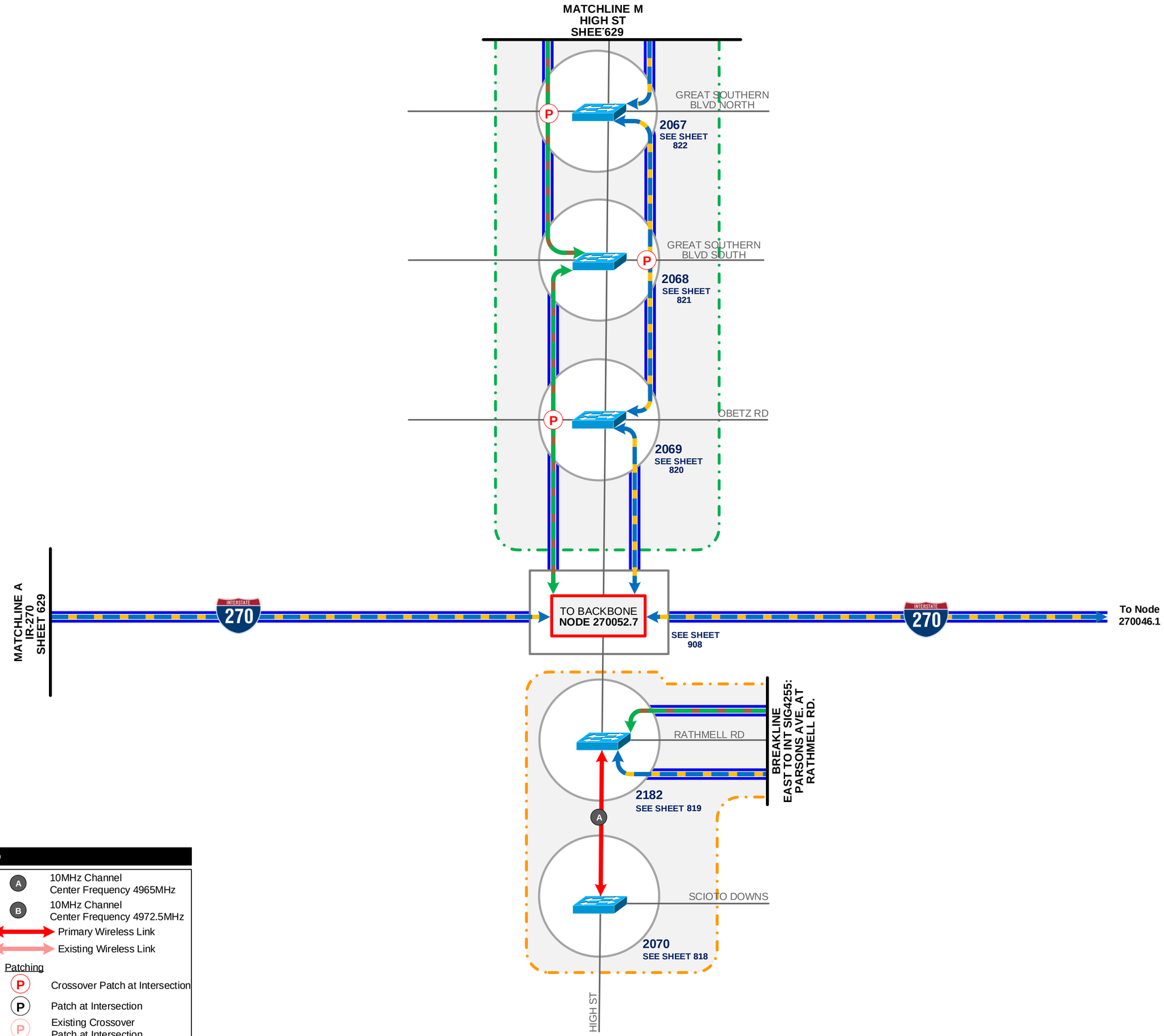
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

627
915

3378-E

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LEGEND

- A — 10MHz Channel, Center Frequency 4965MHz
- B — 10MHz Channel, Center Frequency 4972.5MHz
- Primary Wireless Link
- Existing Wireless Link

Proposed Network Connection

- Outer Line Color Indicates Buffer Tube Used
- Inner Line Colors Indicate Fibers Used

Proposed Fiber Optic Cable

- Fiber Optic Cable
- Layer 2 Ethernet Switch
- Twisted Pair

Patching

- P — Crossover Patch at Intersection
- P — Patch at Intersection
- P — Existing Crossover Patch at Intersection
- P — Existing Patch at Intersection

NOT TO SCALE

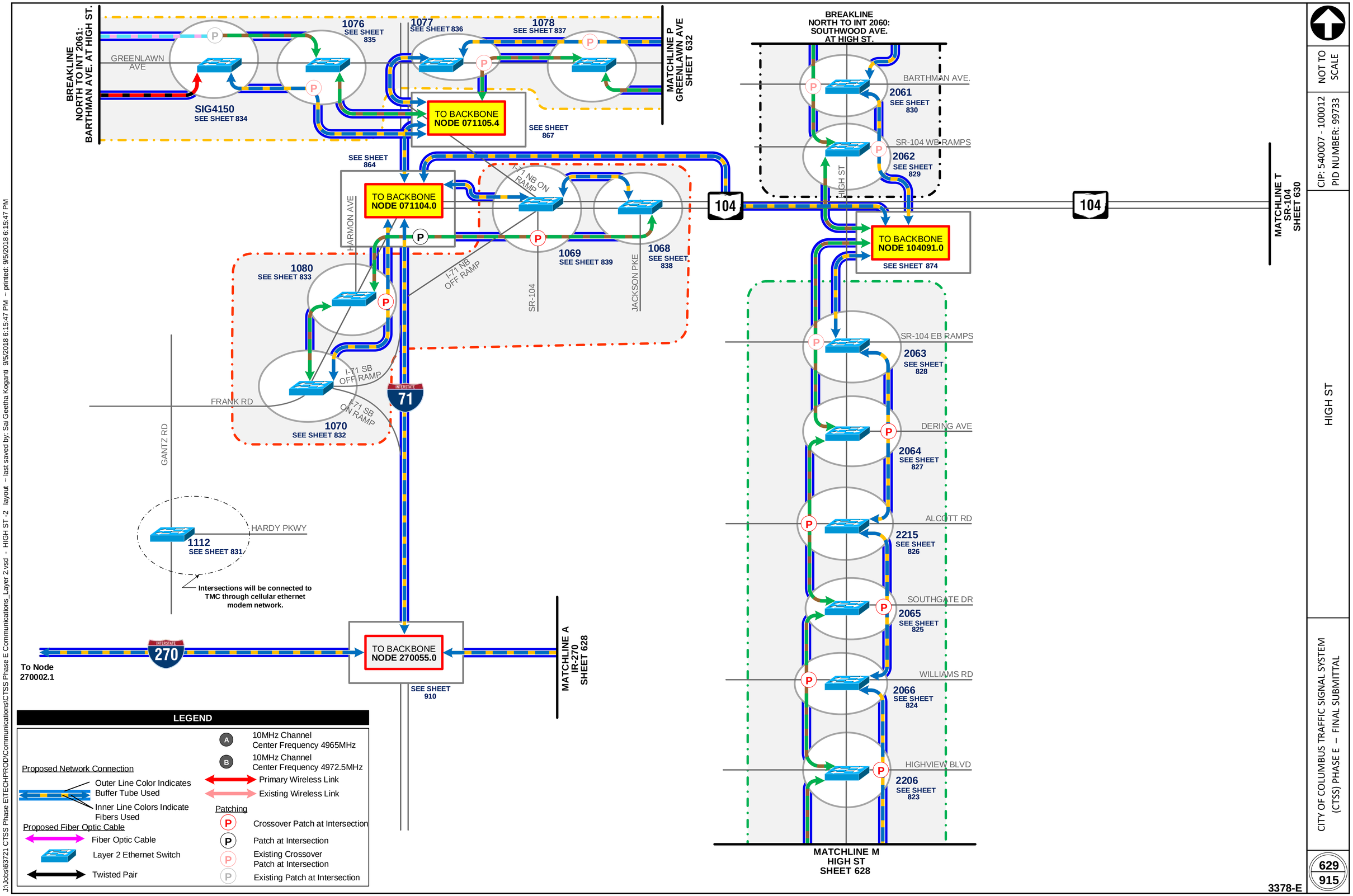
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HIGH ST

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

628
915

3378-E



NOT TO SCALE

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PID NUMBER: 99733

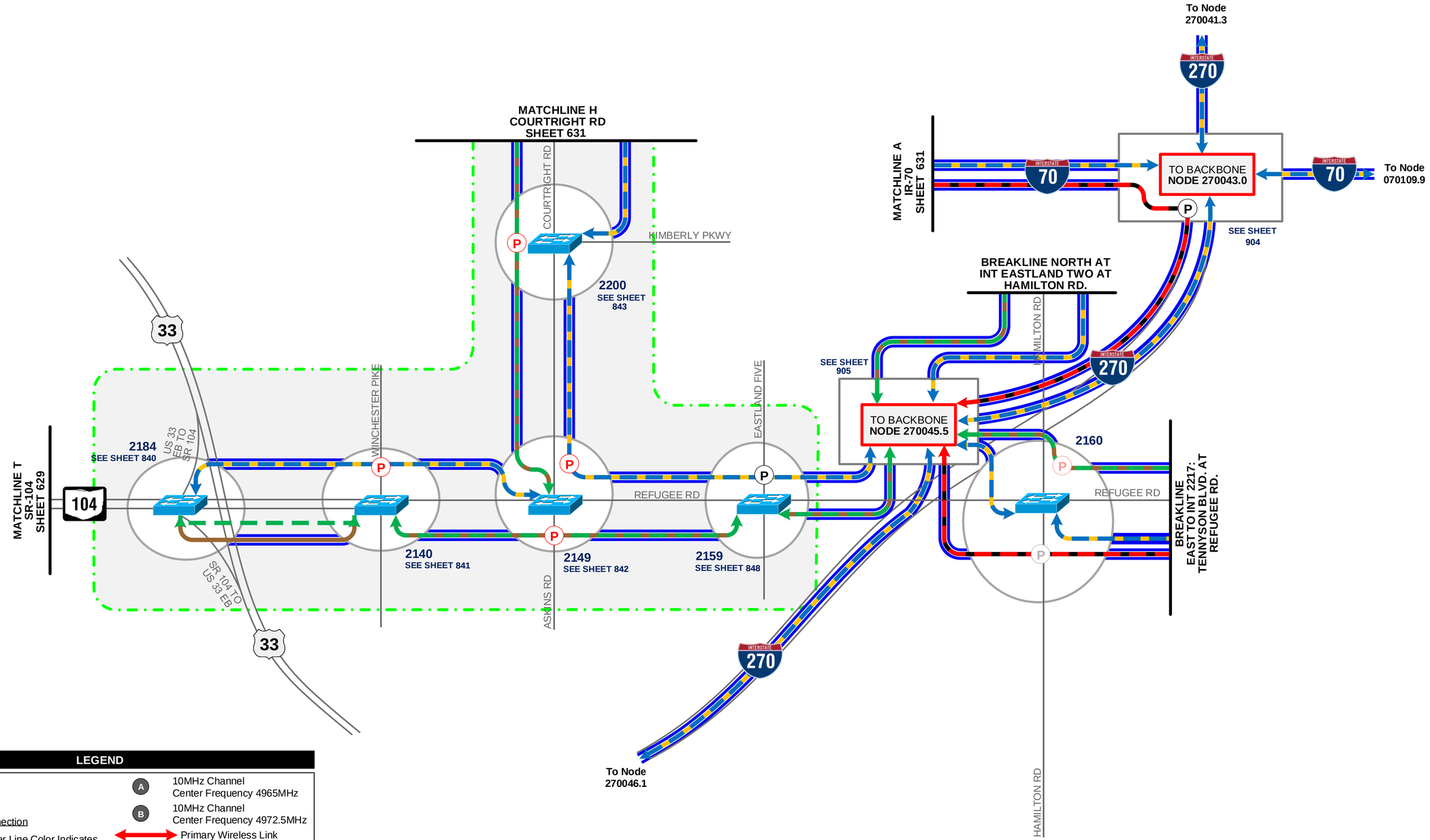
HIGH ST

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

629
915

3378-E

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LEGEND

Proposed Network Connection

- Outer Line Color Indicates Buffer Tube Used
- Inner Line Colors Indicate Fibers Used

Proposed Fiber Optic Cable

- Fiber Optic Cable
- Layer 2 Ethernet Switch
- Twisted Pair

- A — 10MHz Channel, Center Frequency 4965MHz
- B — 10MHz Channel, Center Frequency 4972.5MHz
- Primary Wireless Link
- Existing Wireless Link

Patching

- P — Crossover Patch at Intersection
- P — Patch at Intersection
- P — Existing Crossover Patch at Intersection
- P — Existing Patch at Intersection

NOT TO SCALE

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PID NUMBER: 99733

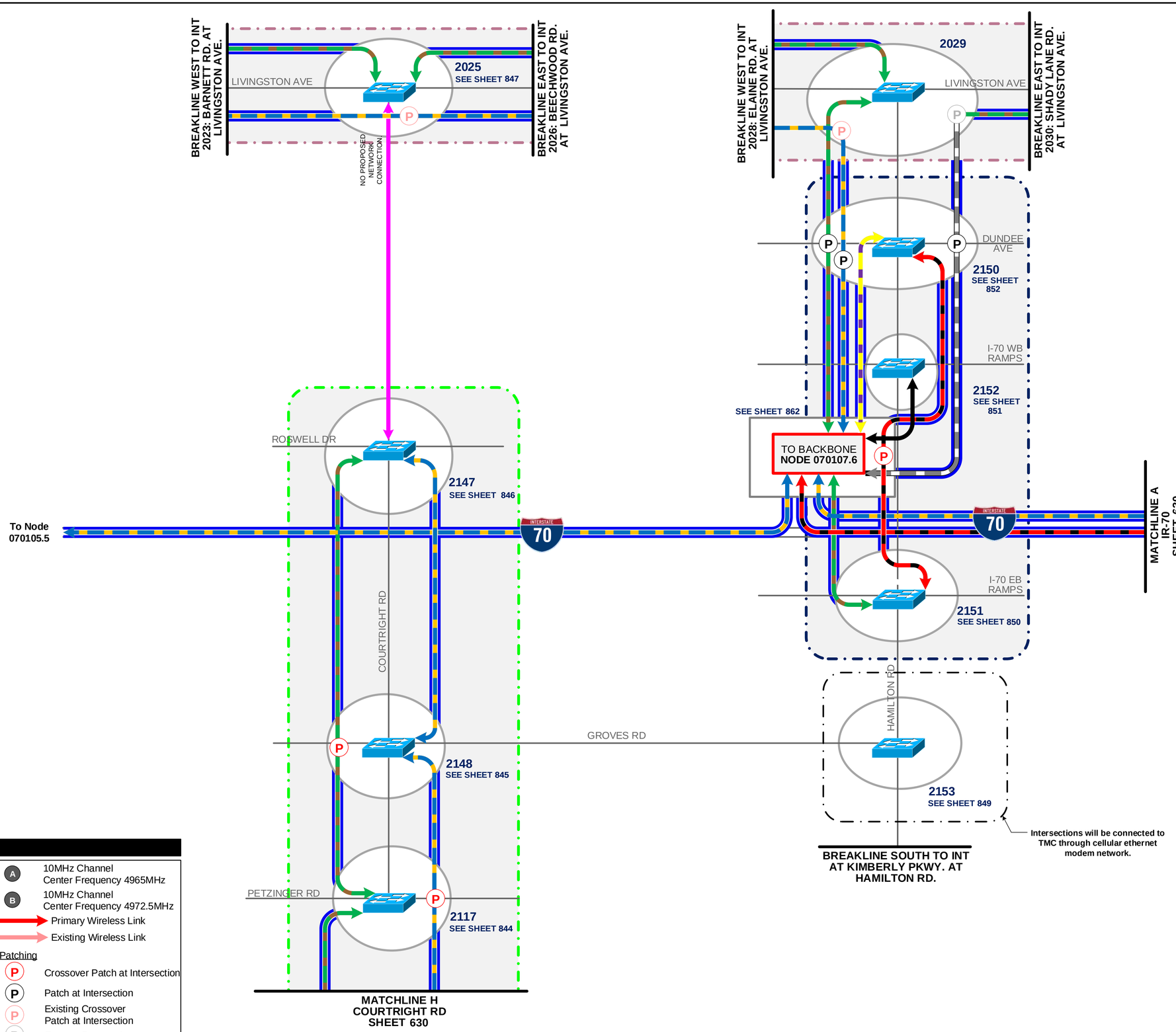
S HAMILTON RD

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

630
915

3378-E

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LEGEND

Proposed Network Connection
- Outer Line Color Indicates Buffer Tube Used
- Inner Line Colors Indicate Fibers Used

Proposed Fiber Optic Cable
- Fiber Optic Cable
- Layer 2 Ethernet Switch
- Twisted Pair

- A — 10MHz Channel Center Frequency 4965MHz
- B — 10MHz Channel Center Frequency 4972.5MHz
- Primary Wireless Link
- Existing Wireless Link

Patching
- P — Crossover Patch at Intersection
- P — Patch at Intersection
- P — Existing Crossover Patch at Intersection
- P — Existing Patch at Intersection

NOT TO SCALE

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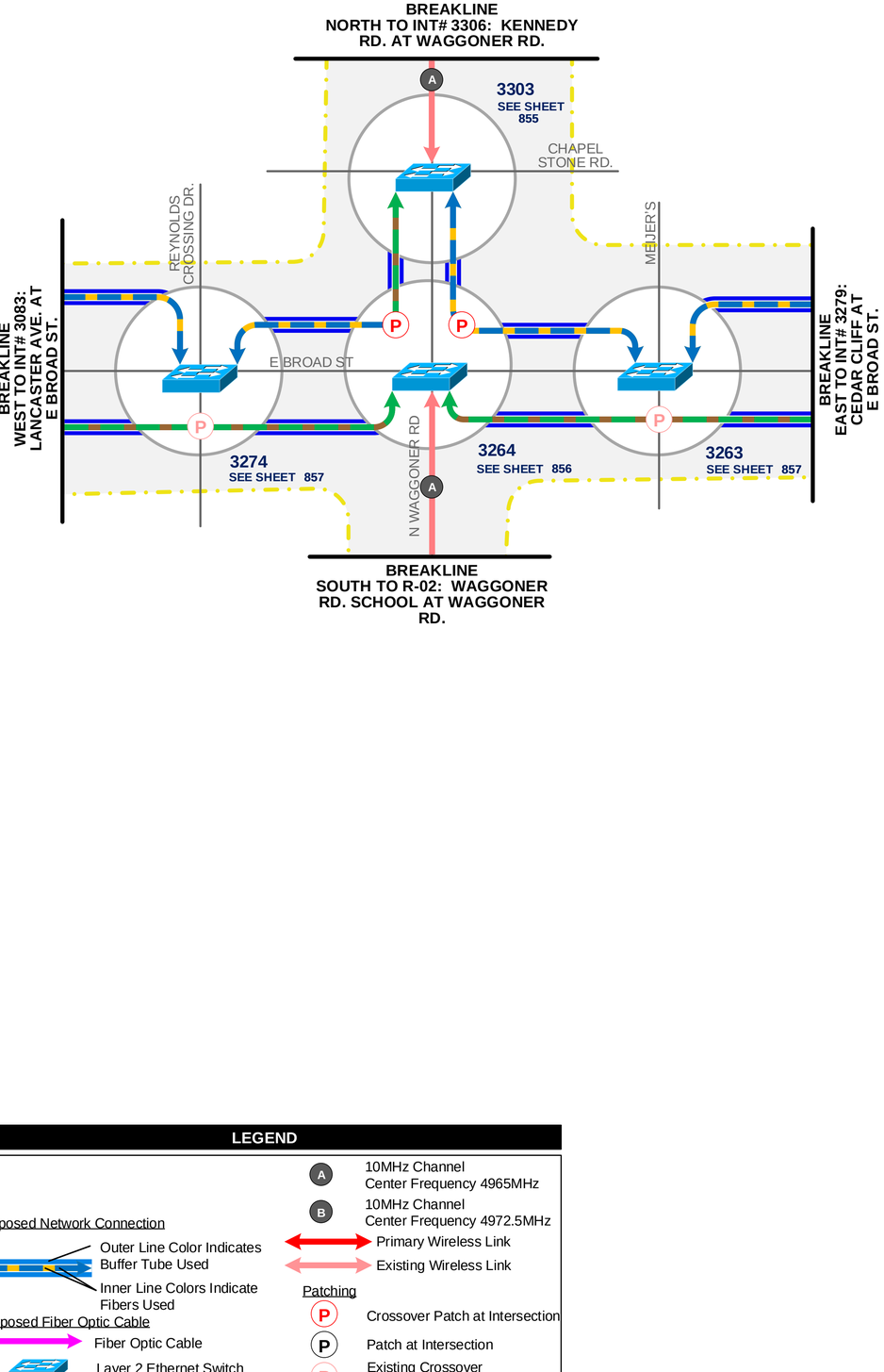
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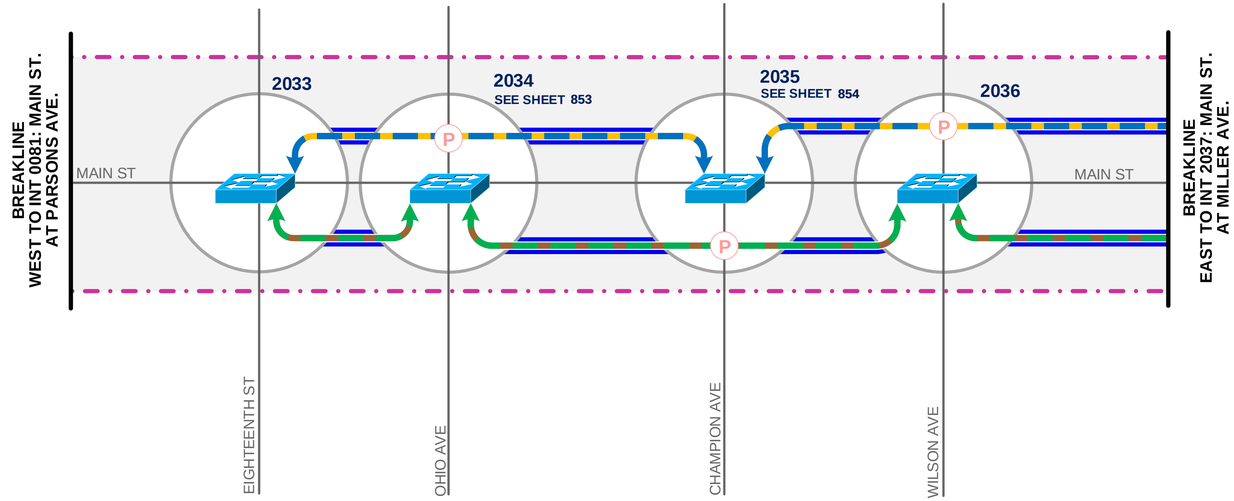
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(CTSS) PHASE E – FINAL SUBMITTAL

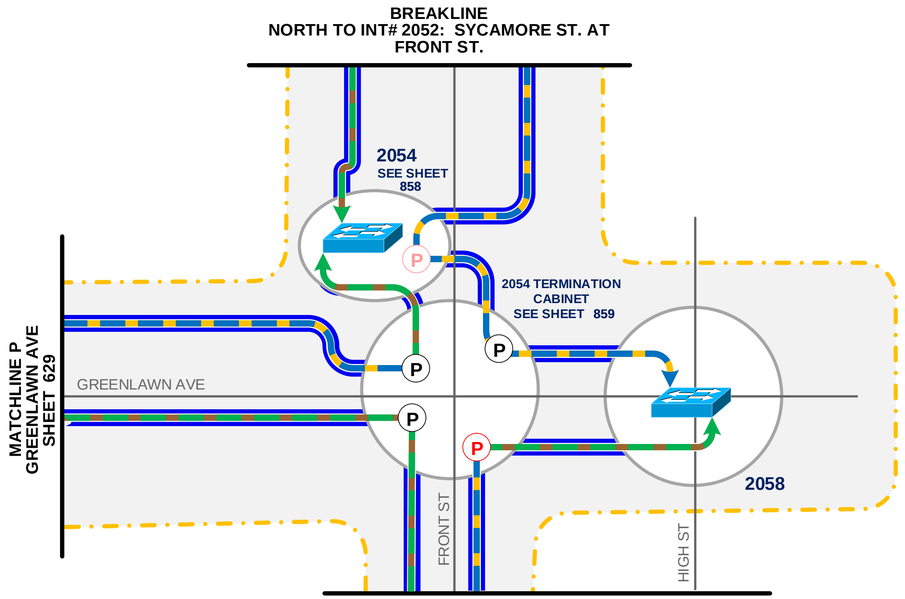
631
915

3378-E

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LEGEND

- A — 10MHz Channel, Center Frequency 4965MHz
- B — 10MHz Channel, Center Frequency 4972.5MHz
- Primary Wireless Link
- Existing Wireless Link

Proposed Network Connection
- Outer Line Color Indicates Buffer Tube Used
- Inner Line Colors Indicate Fibers Used

Proposed Fiber Optic Cable
- Fiber Optic Cable
- Layer 2 Ethernet Switch
- Twisted Pair

Patching
- P — Crossover Patch at Intersection
- P — Patch at Intersection
- P — Existing Crossover Patch at Intersection
- P — Existing Patch at Intersection

3378-E

NOT TO SCALE

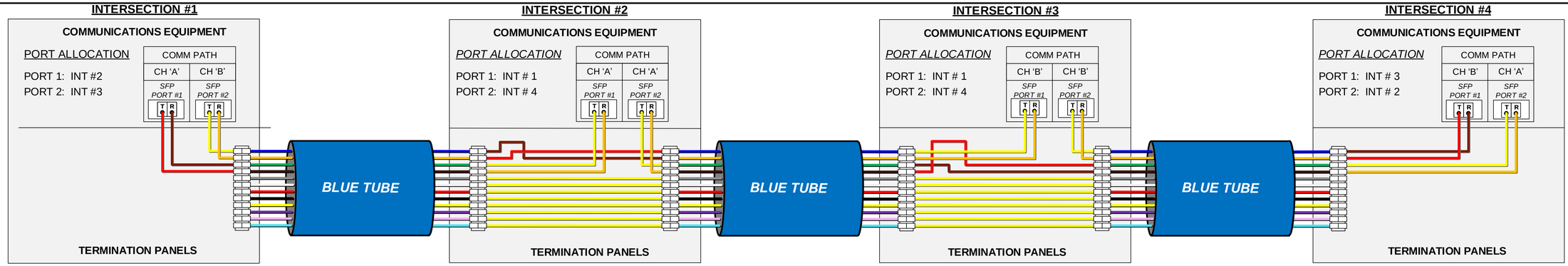
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MAIN ST AND E BROAD ST

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

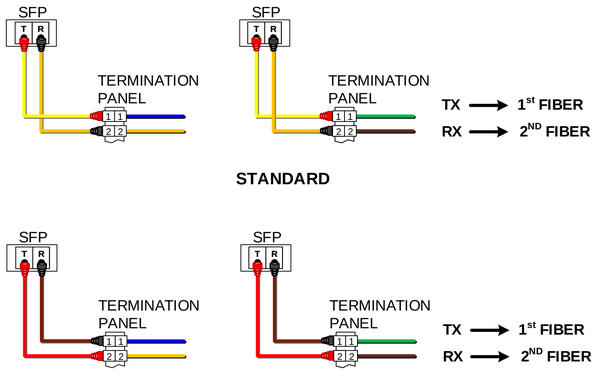
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DUAL CHANNEL FIBER OPTIC COMMUNICATIONS PATH DIAGRAM

PATCH CABLES [1,2]



FIBER OPTIC BUFFER TUBES



SPLICES[5]

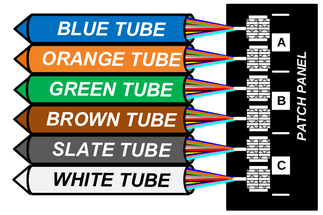
PROPOSED ⊗

EXISTING ⊗

FIBER BUFFER TUBES (COLORS WILL VARY)

- PROPOSED (FIBERS 1-144)
- PROPOSED (FIBERS 145-288)
- EXISTING (FIBERS 1-144)
- EXISTING (FIBERS 145-288)
- FILLING ELEMENT

FIBER OPTIC BUFFER TUBES



PATCH PANEL

PATCH PANEL LABELS | A |

LEGEND

- BLUE BUFFER TUBE
- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – PARTIAL BUFFER TUBE
- LH/ZX (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER

NOTES

1. CROSSOVER CABLES ON PLANS ARE SHOWN AS RED IN COLOR FOR PURPOSE OF CLARITY. ACTUAL CROSSOVER PATCH CABLES ARE NOT DIFFERENT IN COLOR.
2. PATCH CABLES TO BE OF DUPLEX CONSTRUCTION WITH RED AND BLACK CONNECTORS DIFFERENTIATING FIBERS.
3. COMMUNICATIONS PATH DESTINATIONS DEPICTED BY PORT ALLOCATION TABLES ARE LOGICAL AND MAY NOT BE IDENTICAL TO THE DESTINATION OF THE PHYSICAL FIBER OPTIC CABLE.
4. THE ENGINEER SHALL APPROVE FINAL LOCATION OF EACH NODE THAT CONTRACTOR PROPOSES AND RESERVES THE RIGHT TO RELOCATE THEM AT THEIR DISCRETION BASED ON ACTUAL FIELD CONDITIONS.
5. SPLICE INDIVIDUAL FIBERS FROM FIRST BUFFER TUBE THROUGH TO CORRESPONDING COLOR FIBERS OF SECOND BUFFER TUBE

- FIBER OPTIC SPLICE ENCLOSURE
- 8P8C CONNECTOR
- RF CONNECTOR
- WIRELESS RADIO
- EXISTING WIRELESS RADIO
- PROPOSED PTZ TRAFFIC SURVEILLENCE CAMERA — PROPOSED CCTV
- EXISTING TRAFFIC SURVEILLENCE CAMERA — EXISTING CCTV

- EXISTING FIBER OPTIC CABLE — SMF CABLE
- PROPOSED FIBER OPTIC CABLE — SMF CABLE

CIP: 540007 - 100012
PID NUMBER: 99733

COMMUNICATION NOTES

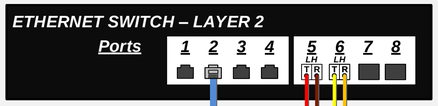
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

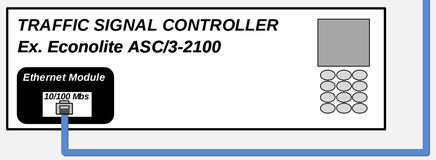
633
915

3378-E

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TRAFFIC SIGNAL CABINET ASSEMBLY

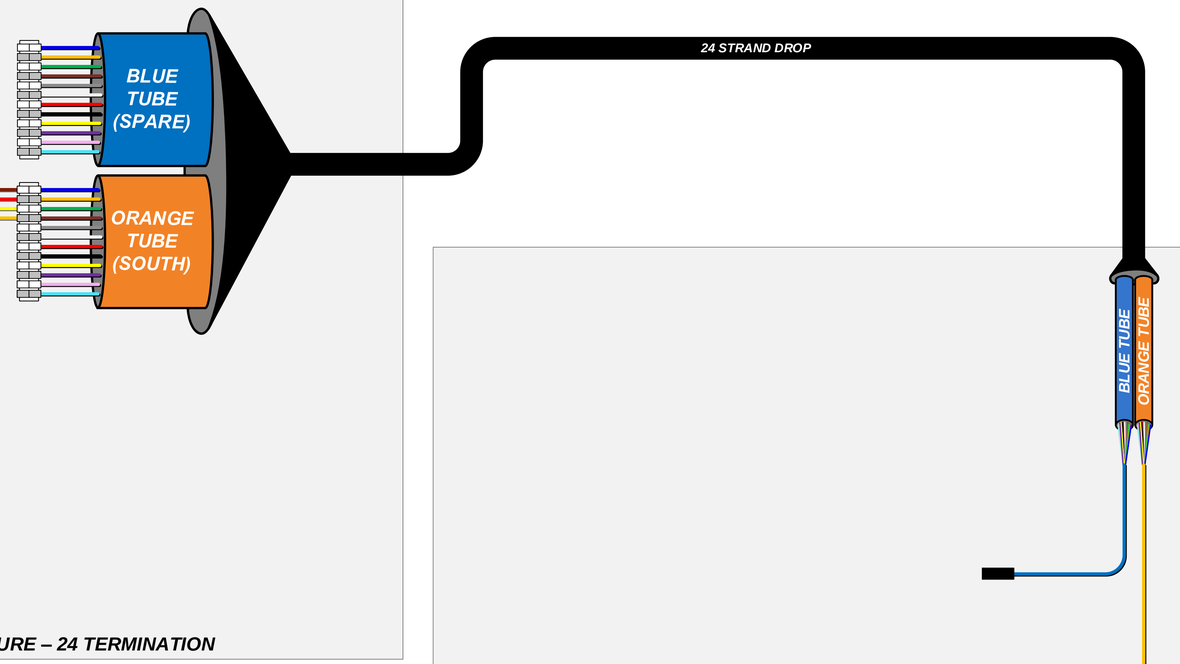




ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# SIG4885: ALTON & DARBY CREEK RD. AT WALKER RD.
SEE SHEET 635

PORT 6: INT# SIG4765: ALTON & DARBY CREEK RD. AT FEDER RD.
SEE SHEET 637



2 Cable Entries
12 Fusion Splices
12 Coiled Buffer Tubes

CLAMSHELL, 288 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

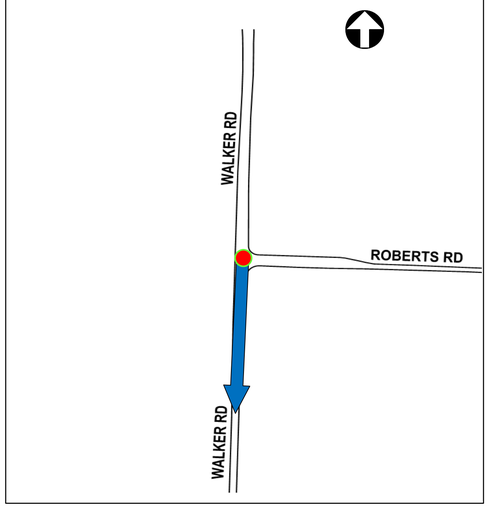
TO:
INT# SIG4885: ALTON & DARBY CREEK RD. AT WALKER RD.
SEE SHEET 635

PATCH PANEL ENCLOSURE – 24 TERMINATION

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- *LH/ZX* GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION SIG4870

REFER TO SHEET 66 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 611 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100012
PID NUMBER: 99733

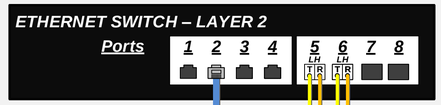
INT# SIG4870: ROBERTS RD. AT WALKER RD.
COMMUNICATIONS DIAGRAM

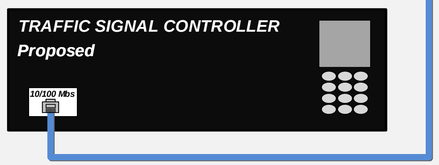
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

634
915

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TRAFFIC SIGNAL CABINET ASSEMBLY

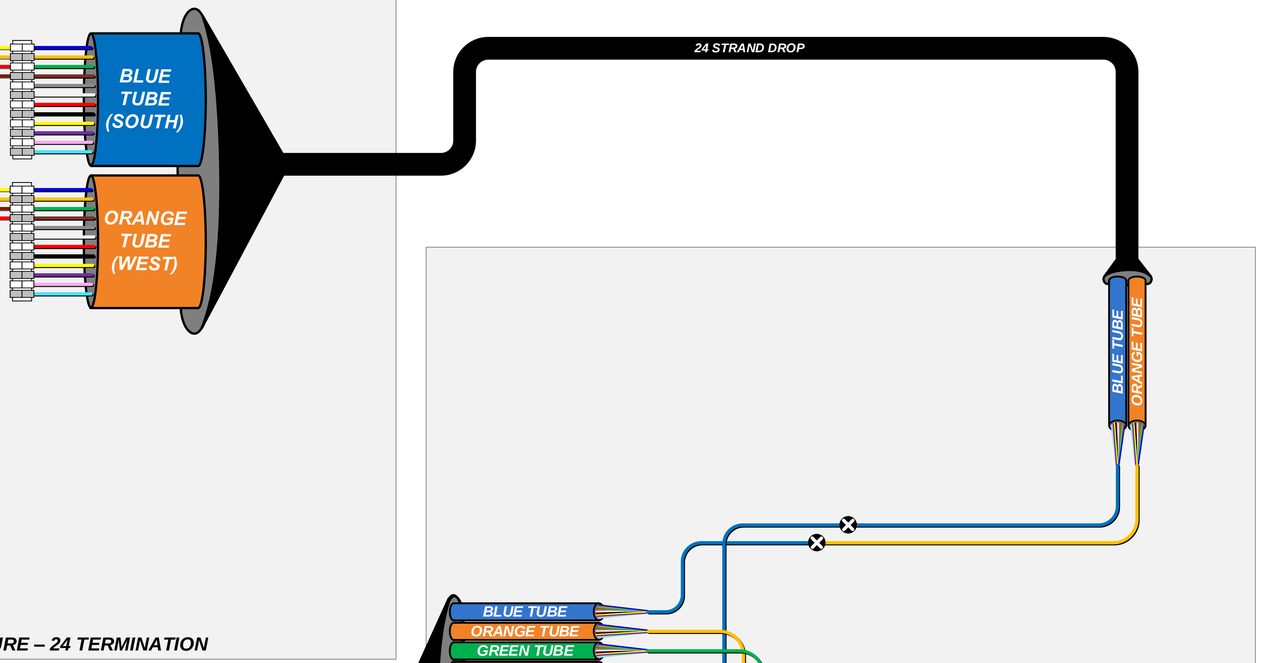




ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# SIG4805: RENNER RD. AT SPINDLER RD.
SEE SHEET 638

PORT 6: INT# SIG4870: ROBERTS RD. AT WALKER RD.
SEE SHEET 634



PATCH PANEL ENCLOSURE – 24 TERMINATION

TO:
INT# SIG4870: ROBERTS RD. AT WALKER RD.
SEE SHEET 634

3 Cable Entries
24 Fusion Splices
11 Buffer Tubes Passed Through Unspliced

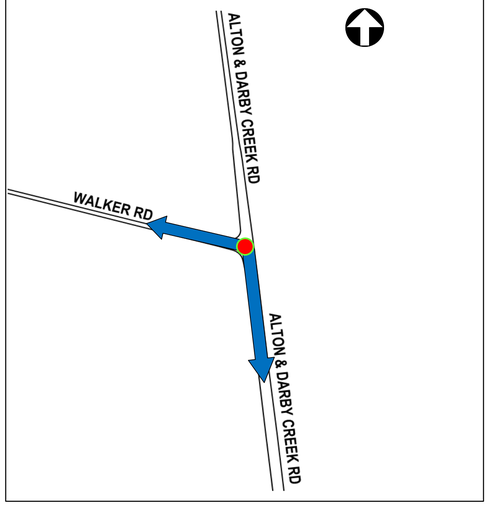
CLAMSHELL, 288 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

TO:
INT# SIG4880: ALTON & DARBY CREEK RD. AT RENNER RD.
SEE SHEET 636

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- *LH/ZX* GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION SIG4885

REFER TO SHEET 80 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 611 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100012
PID NUMBER: 99733

INT# SIG4885: ALTON & DARBY CREEK RD. AT WALKER RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

635
915

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TRAFFIC SIGNAL CABINET ASSEMBLY

ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 4257: RENNER RD. AT TANGLEWOOD PARK BLVD.
SEE SHEET 639

PORT 6: INT# SIG4765: ALTON & DARBY CREEK RD. AT FEDER RD.
SEE SHEET 637

ETHERNET SWITCH – LAYER 2

Ports 1 2 3 4 5 6 7 8 (5 LH T R, 6 LH T R)

TRAFFIC SIGNAL CONTROLLER
Proposed
10/100 Mbs

CCTV FIELD BOX
VIDEO/PTZ IP DATA
CCTV/HEATER POWER
10/100 Mbs
ANALOG VIDEO

COMPOSITE CCTV CABLE

PROPOSED CCTV

24 STRAND DROP

24 STRAND DROP

144 STRAND FOC

TO:
INT# SIG4885: ALTON & DARBY CREEK RD. AT WALKER RD.
SEE SHEET 635

BLUE TUBE (NORTH)

ORANGE TUBE (SOUTH)

BLUE TUBE (EAST)

ORANGE TUBE (SPARE)

PATCH PANEL ENCLOSURES: (2) - 24 TERMINATION

BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE
RED TUBE
BLACK TUBE
YELLOW TUBE
VIOLET TUBE
ROSE TUBE
AQUA TUBE

BLUE TUBE
ORANGE TUBE

BLUE TUBE
ORANGE TUBE

144 STRAND FOC

TO:
INT# SIG4805: RENNER RD. AT SPINDLER RD.
SEE SHEET 638

5 Cable Entries
228 Fusion Splices
2 Coiled Buffer Tubes

CLAMSHELL, 288 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

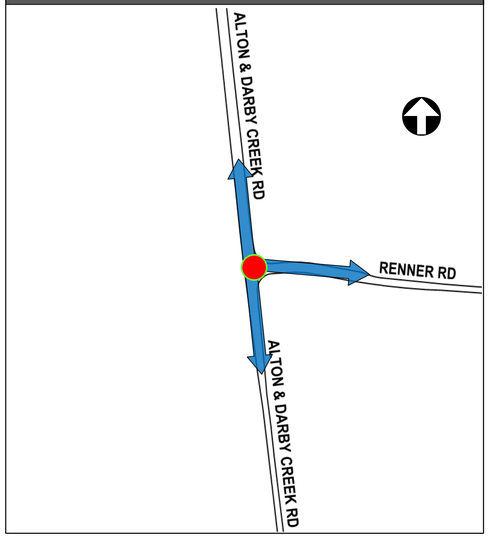
144 STRAND FOC

TO:
INT# SIG4765: ALTON & DARBY CREEK RD. AT FEDER RD.
SEE SHEET 637

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- LH/ZX (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION SIG4880
REFER TO SHEET 79 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 611 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100012
PID NUMBER: 99733

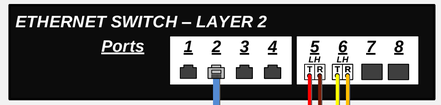
INT# SIG4880: ALTON & DARBY CREEK RD. AT RENNER RD.
COMMUNICATIONS DIAGRAM

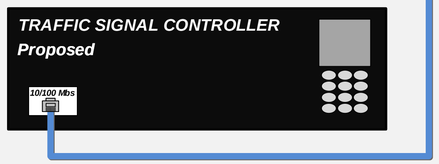
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

636
915

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TRAFFIC SIGNAL CABINET ASSEMBLY

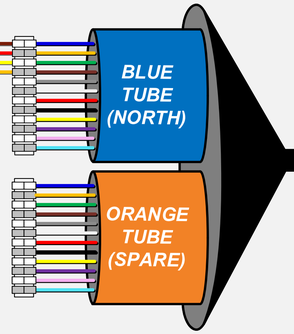




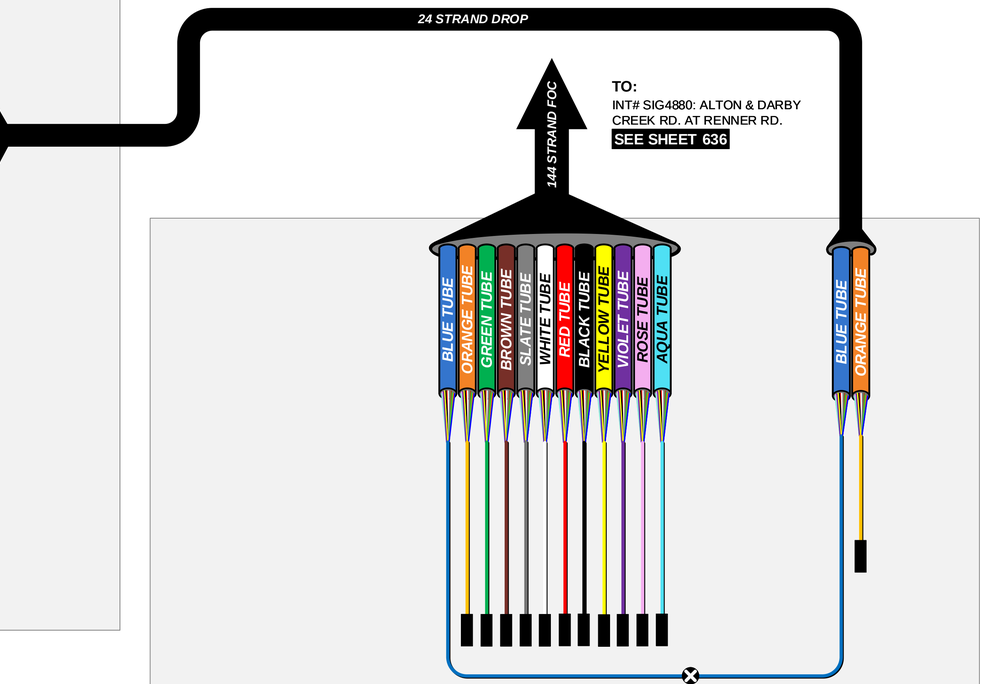
ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# SIG4880: ALTON & DARBY CREEK RD. AT RENNER RD.
SEE SHEET 636

PORT 6: INT# SIG4870: ROBERTS RD. AT WALKER RD.
SEE SHEET 634



PATCH PANEL ENCLOSURE – 24 TERMINATION



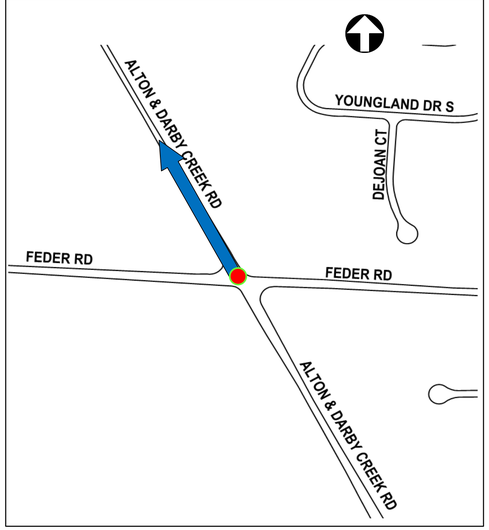
2 Cable Entries
12 Fusion Splices
12 Coiled Buffer Tubes

CLAMSHELL, 288 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- *LH/ZX* (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION SIG4765

REFER TO SHEET 75 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 611 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100012
PID NUMBER: 99733

INT# SIG4765: ALTON & DARBY CREEK RD. AT FEDER RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

637
915

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TRAFFIC SIGNAL CABINET ASSEMBLY

ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 4257: RENNER RD. AT TANGLEWOOD PARK BLVD.
SEE SHEET 639

PORT 6: INT# SIG4885: ALTON & DARBY CREEK RD. AT WALKER RD.
SEE SHEET 635

1

ETHERNET SWITCH – LAYER 2

Ports 1 2 3 4 5 LH T R 6 LH T R 7 8

TRAFFIC SIGNAL CONTROLLER
Proposed
10/100 Mbs

PATCH PANEL ENCLOSURE – 24 TERMINATION

BLUE TUBE (EAST)

ORANGE TUBE (WEST)

24 STRAND DROP

BLUE TUBE
ORANGE TUBE

BLUE TUBE	BLUE TUBE
ORANGE TUBE	ORANGE TUBE
GREEN TUBE	GREEN TUBE
BROWN TUBE	BROWN TUBE
SLATE TUBE	SLATE TUBE
WHITE TUBE	WHITE TUBE
RED TUBE	RED TUBE
BLACK TUBE	BLACK TUBE
YELLOW TUBE	YELLOW TUBE
VIOLET TUBE	VIOLET TUBE
ROSE TUBE	ROSE TUBE
AQUA TUBE	AQUA TUBE

144 STRAND FOC

TO:
INT# SIG4880: ALTON & DARBY CREEK RD. AT RENNER RD.
SEE SHEET 636

144 STRAND FOC

TO:
INT# 4257: RENNER RD. AT TANGLEWOOD PARK BLVD.
SEE SHEET 639

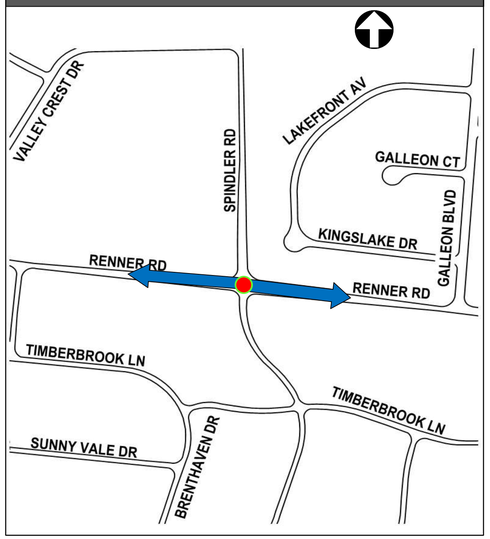
3 Cable Entries
24 Fusion Splices
11 Buffer Tubes Passed Through Unspliced

CLAMSHELL, 288 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



1 REVISION 1.0
11-02-2018

INTERSECTION SIG4805

REFER TO SHEET 85 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 611 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100012
PID NUMBER: 99733

INT# SIG4805: RENNER RD. AT SPINDLER RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

638
915

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TRAFFIC SIGNAL CABINET ASSEMBLY

ETHERNET SWITCH – LAYER 2

Ports: 1 2 3 4 5 (LH T R) 6 (LH T R) 7 8

TRAFFIC SIGNAL CONTROLLER
Proposed
10/100 Mbs

ETHERNET SWITCH PORT DESTINATION

PORT 3: INT# 4140: HILLIARD ROME RD. AT RENNER RD.
SEE SHEET 640

PORT 5: INT# SIG4805: RENNER RD. AT SPINDLER RD.
SEE SHEET 638

PORT 6: INT# SIG4880: ALTON & DARBY CREEK RD. AT RENNER RD.
SEE SHEET 636

WIRELESS LINK TO
INT# 4140: HILLIARD ROME RD. AT RENNER RD.
SEE SHEET 640

BLUE TUBE (SPARE)

ORANGE TUBE (WEST)

24 STRAND DROP

BLUE TUBE

ORANGE TUBE

1

PATCH PANEL ENCLOSURE – 24 TERMINATION

144 STRAND FOC

- BLUE TUBE
- ORANGE TUBE
- GREEN TUBE
- BROWN TUBE
- SLATE TUBE
- WHITE TUBE
- RED TUBE
- BLACK TUBE
- YELLOW TUBE
- VIOLET TUBE
- ROSE TUBE
- AQUA TUBE

TO:
INT# SIG4805: RENNER RD. AT SPINDLER RD.
SEE SHEET 638

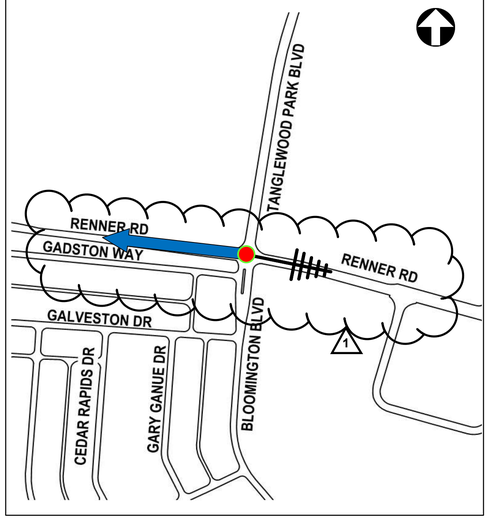
2 Cable Entries
12 Fusion Splices
12 Coiled Buffer Tubes

CLAMSHELL, 288 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- LH/ZX (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



1 REVISION 1.0 11-02-2018

INTERSECTION 4257

REFER TO SHEET 88 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 611 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100012
PID NUMBER: 99733

INT# 4257: RENNER RD. AT TANGLEWOOD PARK BLVD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

639
915

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TRAFFIC SIGNAL CABINET ASSEMBLY

ETHERNET SWITCH – LAYER 2

Ports: 1 2 3 4 5 (LH T R) 6 (LH T R) 7 8

TRAFFIC SIGNAL CONTROLLER
Ex. Econolite ASC/3-2100

Ethernet Module
10/100 Mbs

CCTV FIELD BOX

- VIDEO/PTZ IP DATA
- CCTV/HEATER POWER
- 10/100 Mbs
- ANALOG VIDEO

ETHERNET SWITCH PORT DESTINATION

PORT 1: INT# 4257: RENNER RD. AT TANGLEWOOD PARK BLVD.
SEE SHEET 639

PORT 5: PROPOSED COMMUNICATION NODE# 070091.2: I-70 AT HILLIARD ROME RD.
SEE SHEET 860

PORT 6: INT# 4230: RENNER RD. / TRABUE RD. AT WALCUTT CT.
SEE SHEET 642

WIRELESS LINK TO INT# 4257: RENNER RD. AT TANGLEWOOD PARK BLVD.
SEE SHEET 639

PROPOSED CCTV

COMPOSITE CCTV CABLE

24 STRAND DROP

24 STRAND DROP

BLUE TUBE (NORTH)

ORANGE TUBE (SOUTH)

BLUE TUBE (EAST)

ORANGE TUBE (SPARE)

PATCH PANEL ENCLOSURES: (2) - 24 TERMINATION

144 STRAND FOC

TO:
INT# 4199: HILLIARD ROME RD. AT MEIJER STORE DR.
SEE SHEET 648

BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE
RED TUBE
BLACK TUBE
YELLOW TUBE
VIOLET TUBE
ROSE TUBE
AQUA TUBE

BLUE TUBE
ORANGE TUBE

BLUE TUBE
ORANGE TUBE

144 STRAND FOC

TO:
INT# 4217: RENNER RD. AT WESTPOINTE PLAZA DR.
SEE SHEET 641

5 Cable Entries
228 Fusion Splices
2 Coiled Buffer Tubes

CLAMSHELL, 288 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE

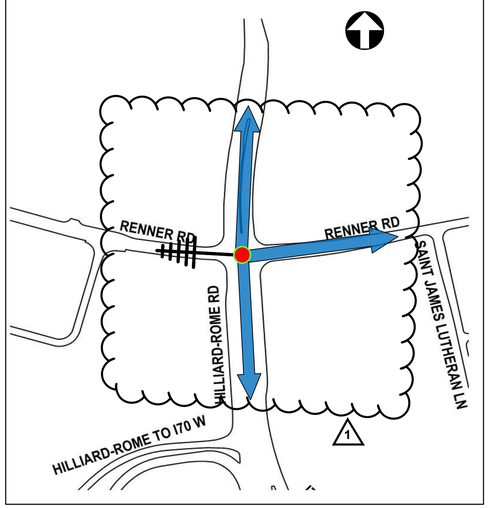
144 STRAND FOC

TO:
INT# 4266: HILLIARD ROME RD. AT I-70 WB
SEE SHEET 647

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- LH/ZX (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



1 REVISION 1.0 11-02-2018

INTERSECTION 4140

REFER TO SHEET 90 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 611 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100012
PID NUMBER: 99733

INT# 4140: HILLIARD ROME RD. AT RENNER RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

640
915

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TRAFFIC SIGNAL CABINET ASSEMBLY

ETHERNET SWITCH – LAYER 2

Ports 1 2 3 4 5 6 7 8 (5 LH T R, 6 LH T R)

TRAFFIC SIGNAL CONTROLLER
Proposed
10/100 Mbs

ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 4230: RENNER RD. / TRABUE RD. AT WALCUTT CT.
SEE SHEET 642

PORT 6: INT# 4225: HILLIARD ROME RD. AT WESTCHESTER WOODS BLVD.
SEE SHEET 649

1

BLUE TUBE (EAST)

ORANGE TUBE (WEST)

24 STRAND DROP

PATCH PANEL ENCLOSURE – 24 TERMINATION

BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE
RED TUBE
BLACK TUBE
YELLOW TUBE
VIOLET TUBE
ROSE TUBE
AQUA TUBE

144 STRAND FOC

TO:
INT# 4140: HILLIARD ROME RD. AT RENNER RD.
SEE SHEET 640

144 STRAND FOC

TO:
INT# 4230: RENNER RD. / TRABUE RD. AT WALCUTT CT.
SEE SHEET 642

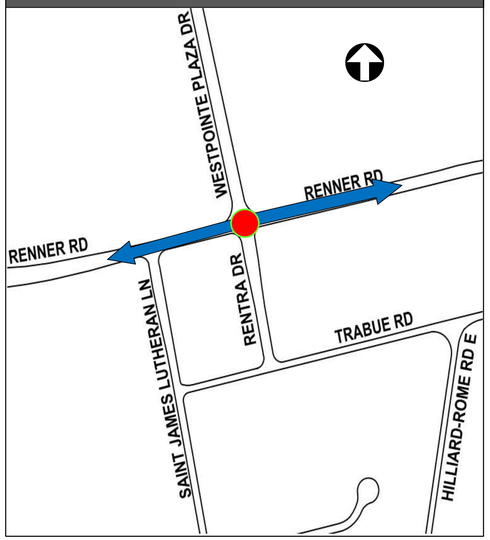
3 Cable Entries
24 Fusion Splices
11 Buffer Tubes Passed Through Unspliced

CLAMSHELL, 288 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- LH/ZX (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



1 REVISION 1.0 11-02-2018

INTERSECTION 4217

REFER TO SHEET 91 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 611 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100012
PID NUMBER: 99733

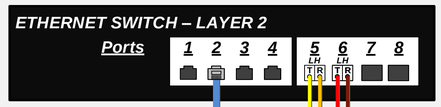
INT# 4217: RENNER RD. AT WESTPOINTE PLAZA DR.
COMMUNICATIONS DIAGRAM

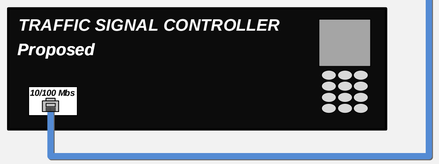
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

641
915

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TRAFFIC SIGNAL CABINET ASSEMBLY

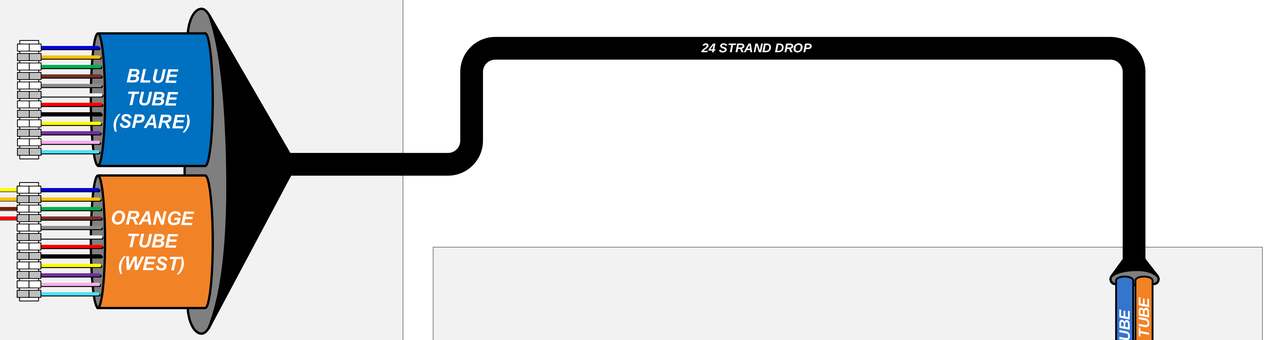


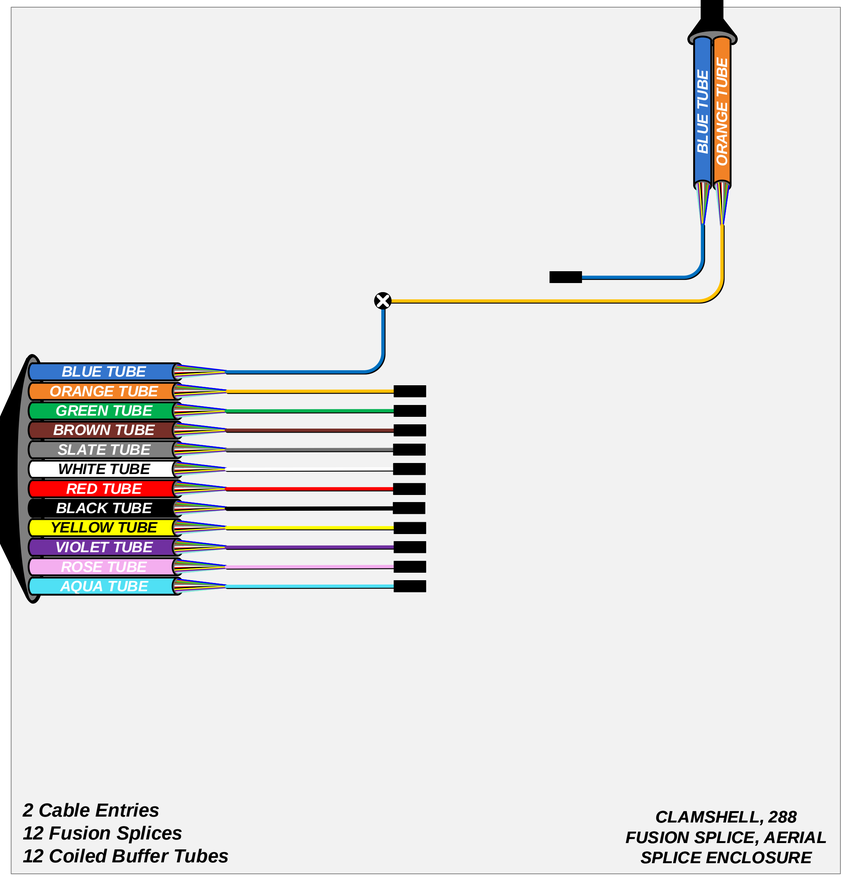


ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 4140: HILLIARD ROME RD. AT RENNER RD.
SEE SHEET 640

PORT 6: INT# 4217: RENNER RD. AT WESTPOINTE PLAZA DR.
SEE SHEET 641





TO:
INT# 4217: RENNER RD. AT WESTPOINTE PLAZA DR.
SEE SHEET 641

2 Cable Entries
12 Fusion Splices
12 Coiled Buffer Tubes

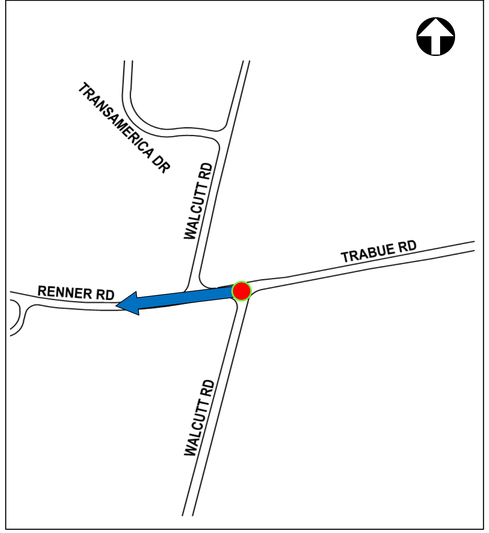
CLAMSHELL, 288 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

PATCH PANEL ENCLOSURE – 24 TERMINATION

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- *LH/ZX* GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 4230

REFER TO SHEET 93 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 611 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100012
PID NUMBER: 99733

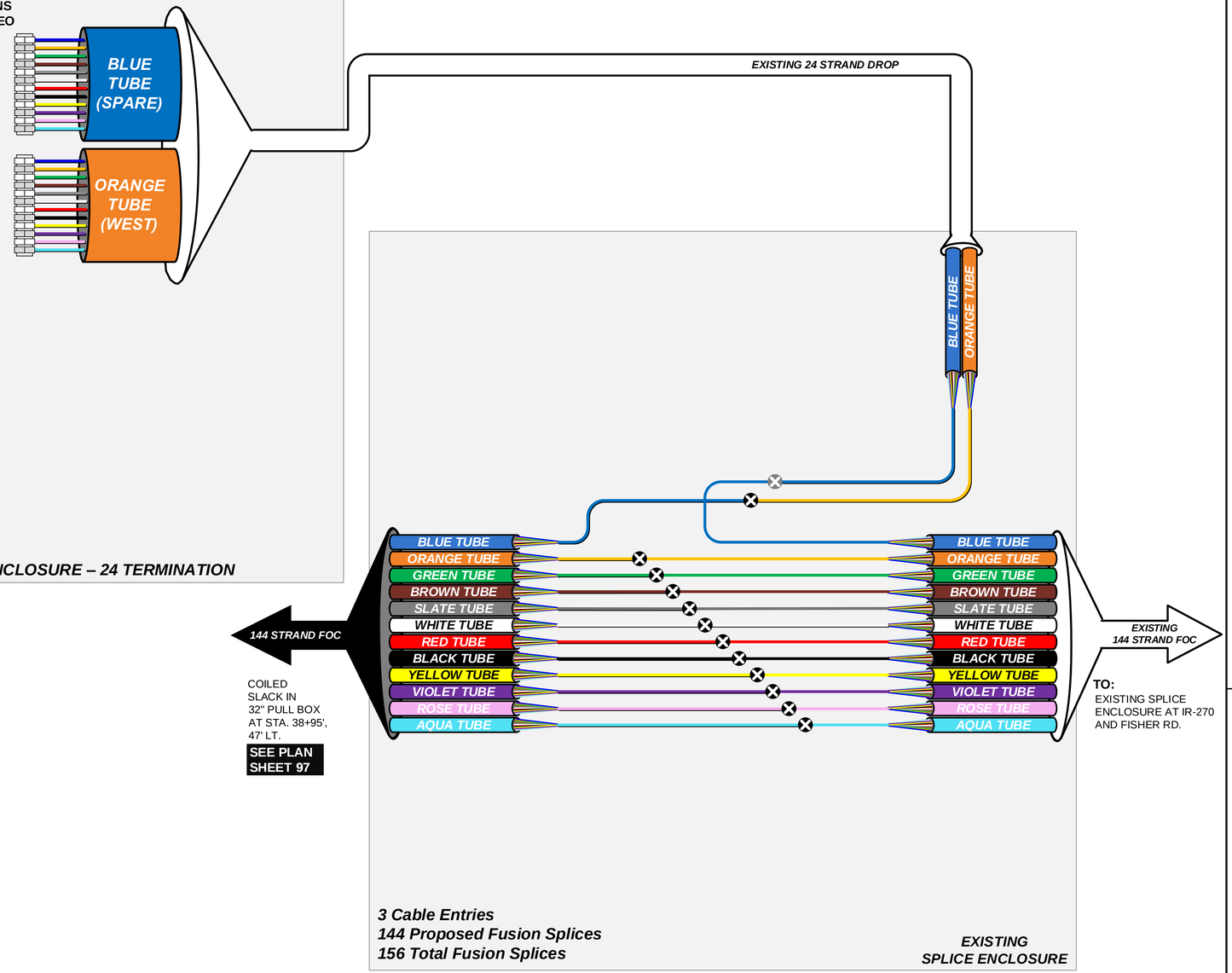
INT# 4230: RENNER RD. / TRABUE RD. AT WALCUTT CT.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

642
915

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PATCHING TO EXISTING COMMUNICATIONS EQUIPMENT WILL BE PERFORMED BY FCEO TECHNOLOGY STAFF

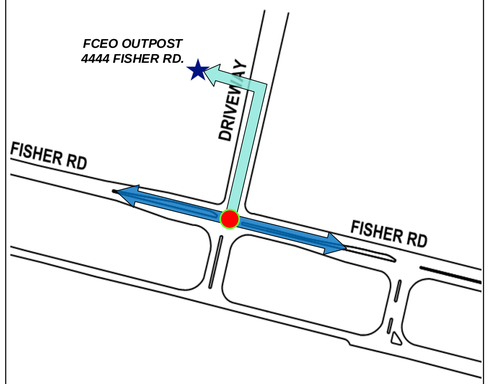


EXISTING PATCH PANEL ENCLOSURE – 24 TERMINATION

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- LH/ZX (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



FCEO FACILITY (WEST MAINTENANCE)

REFER TO SHEET 102 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 611 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100012
PID NUMBER: 99733

INT# FCEO FACILITY: FACILITY AT FISHER RD. (WEST MAINTENANCE)
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

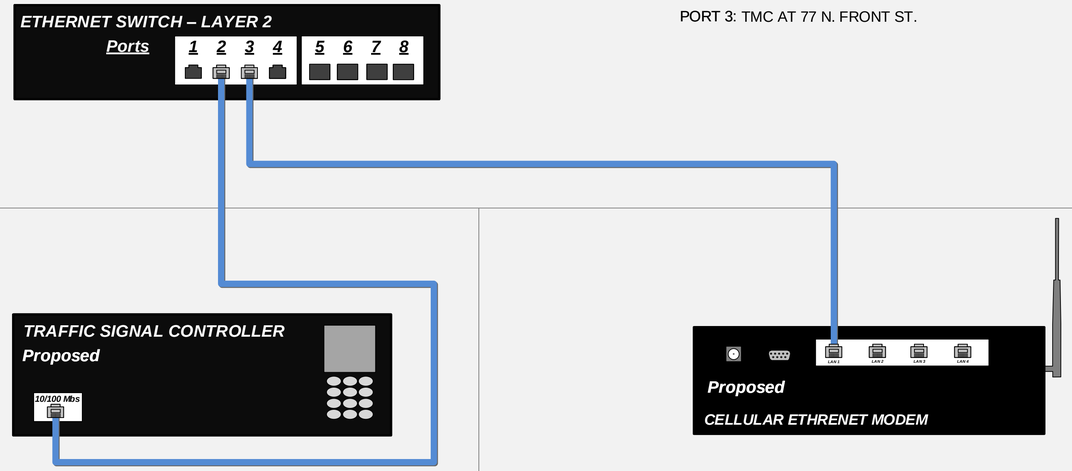
643
915

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TRAFFIC SIGNAL CABINET ASSEMBLY

ETHERNET SWITCH PORT DESTINATION

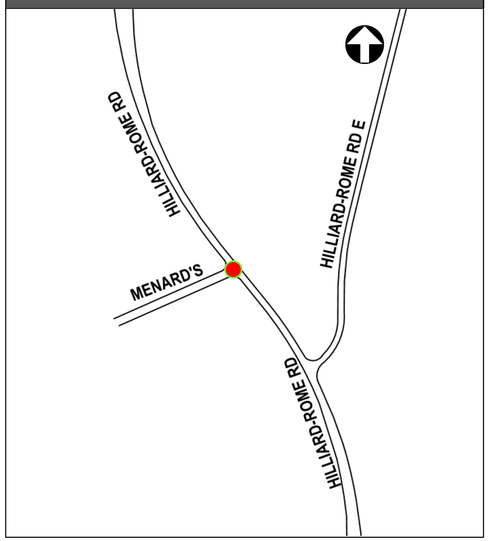
PORT 3: TMC AT 77 N. FRONT ST.



LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- *LH/ZX* (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION XXXX

REFER TO SHEET 104 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 611 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100012
PID NUMBER: 99733

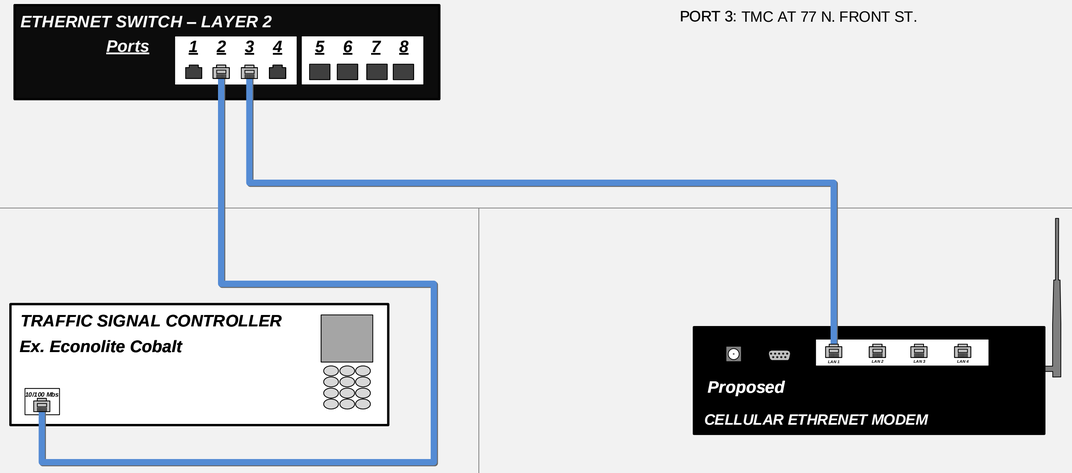
INT# XXXX: HILLIARD & ROME RD. AT MENARDS
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

644
915

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TRAFFIC SIGNAL CABINET ASSEMBLY



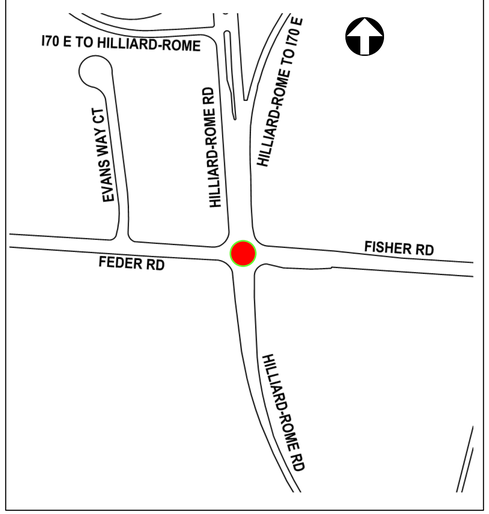
ETHERNET SWITCH PORT DESTINATION

PORT 3: TMC AT 77 N. FRONT ST.

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- *LH/ZX* GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 4234

REFER TO SHEET 105 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 611 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100012
PID NUMBER: 99733

INT# 4234: FISHER RD./FEDER RD. AT HILLIARD ROME RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

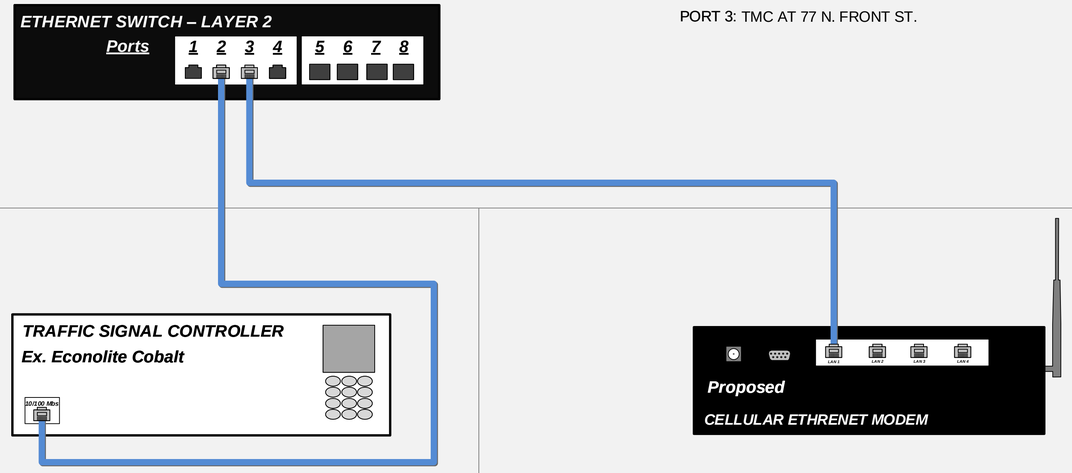
645
915

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TRAFFIC SIGNAL CABINET ASSEMBLY

ETHERNET SWITCH PORT DESTINATION

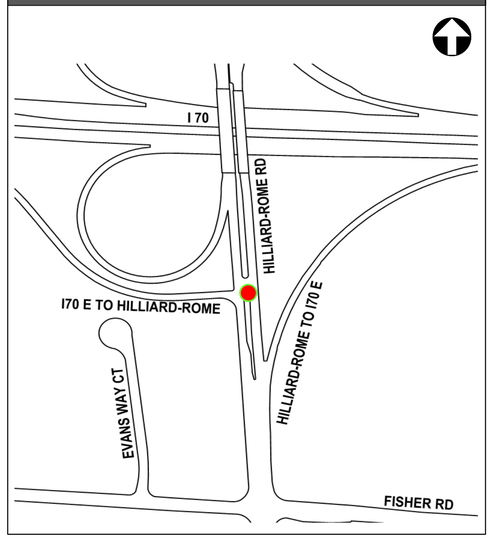
PORT 3: TMC AT 77 N. FRONT ST.



LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- *LH/ZX* (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 4233

REFER TO SHEET 105 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 611 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100012
PID NUMBER: 99733

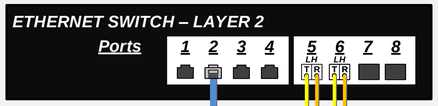
INT# 4233: HILLIARD ROME RD. AT I-70 EB
COMMUNICATIONS DIAGRAM

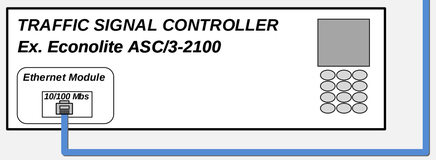
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

646
915

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TRAFFIC SIGNAL CABINET ASSEMBLY

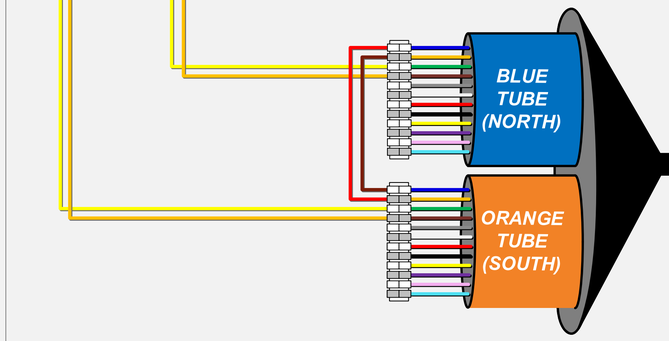




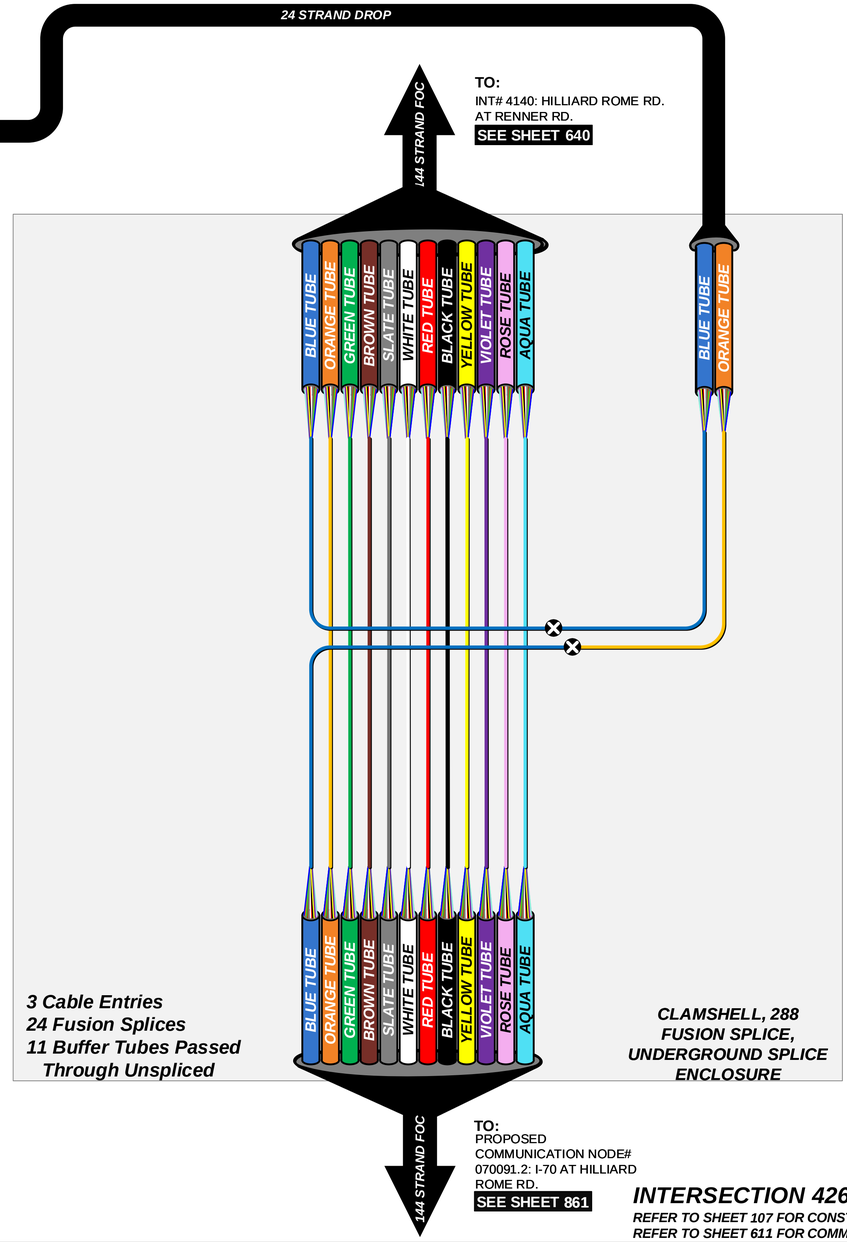
ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 4199: HILLIARD ROME RD. AT MEIJER STORE DR.
SEE SHEET 648

PORT 6: PROPOSED COMMUNICATION NODE# 070091.2: I-70 AT HILLIARD ROME RD.
SEE SHEET 860



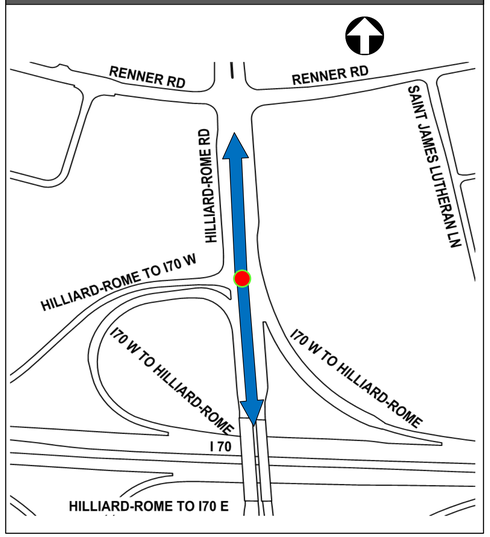
PATCH PANEL ENCLOSURE – 24 TERMINATION



LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- LH/ZX (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 4266

REFER TO SHEET 107 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 611 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100012
PID NUMBER: 99733

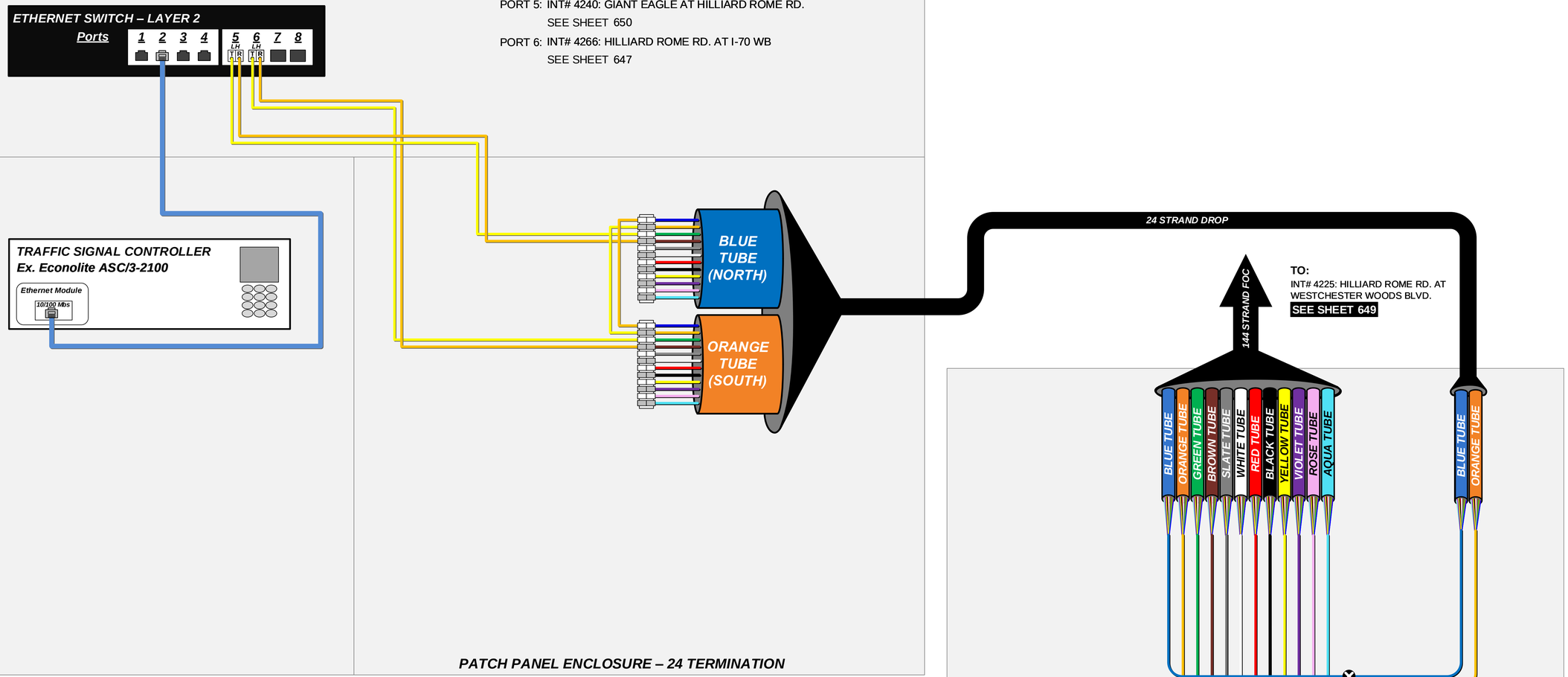
INT# 4266: HILLIARD ROME RD. AT I-70 WB
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

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TRAFFIC SIGNAL CABINET ASSEMBLY



ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 4240: GIANT EAGLE AT HILLIARD ROME RD.
SEE SHEET 650

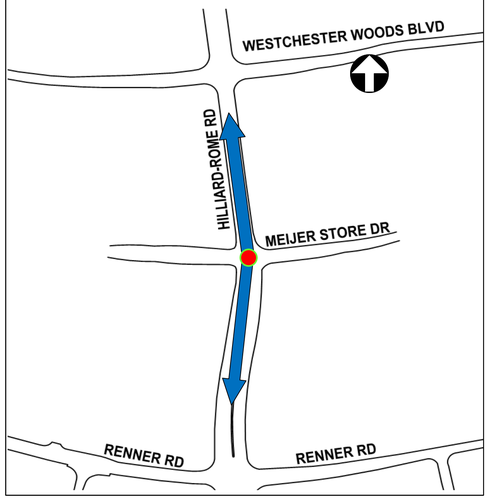
PORT 6: INT# 4266: HILLIARD ROME RD. AT I-70 WB
SEE SHEET 647

PATCH PANEL ENCLOSURE – 24 TERMINATION

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 4199

REFER TO SHEET 108 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 611 FOR COMM OVERVIEW DETAILS

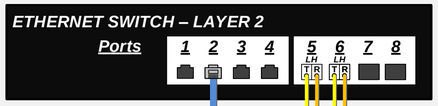
CIP: 540007 - 100012
PID NUMBER: 99733

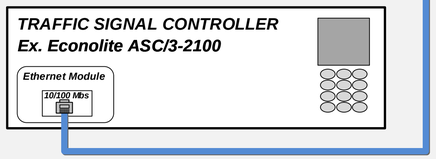
INT# 4199: HILLIARD ROME RD. AT MEIJER STORE DR.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

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TRAFFIC SIGNAL CABINET ASSEMBLY



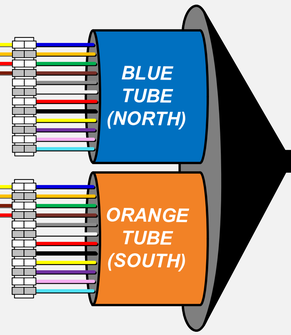


ETHERNET SWITCH PORT DESTINATION

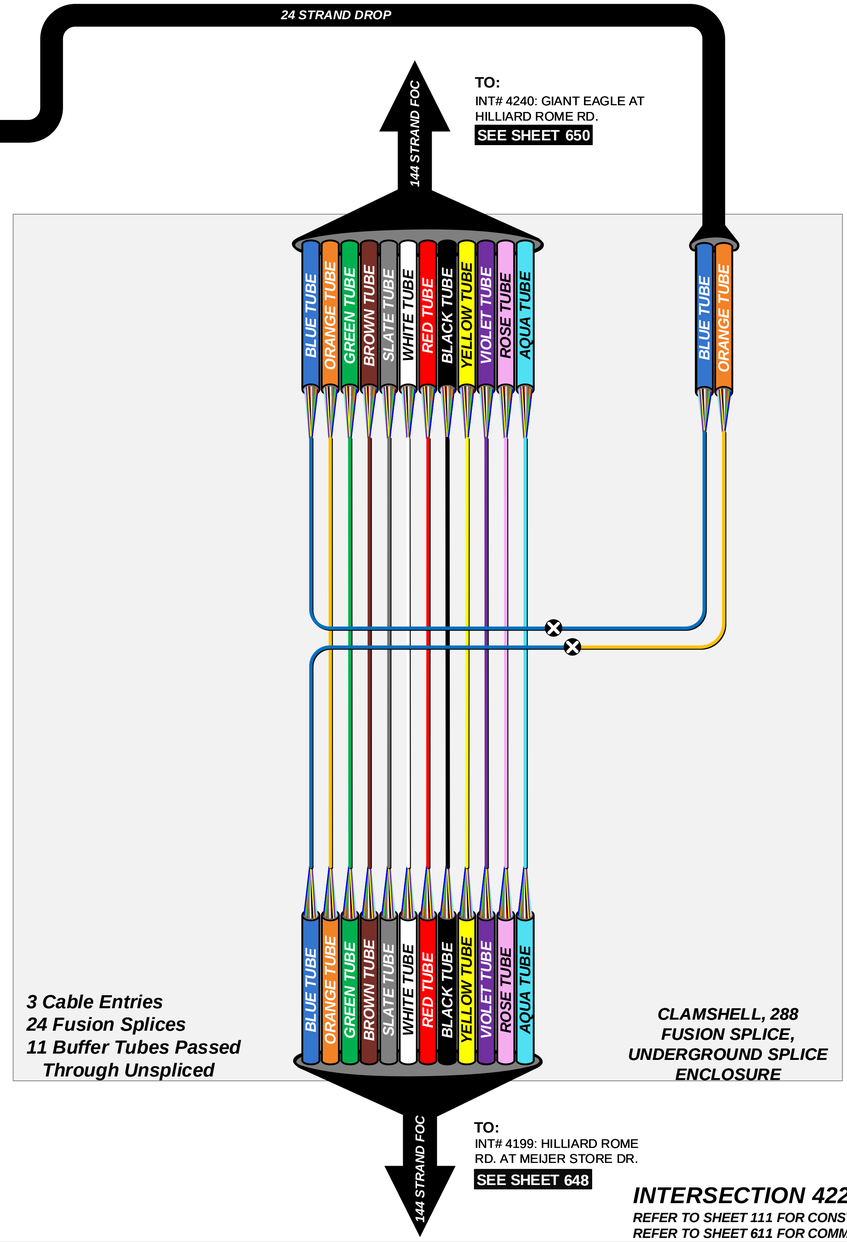
PORT 5: INT# 4256: HILLIARD ROME RD. AT TANGLEWOOD PARK BLVD.
SEE SHEET 651

PORT 6: INT# 4217: RENNER RD. AT WESTPOINTE PLAZA DR.
SEE SHEET 641

1



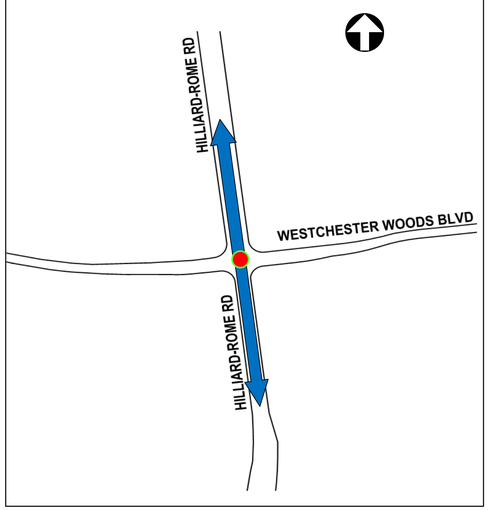
PATCH PANEL ENCLOSURE – 24 TERMINATION



LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- LH/ZX (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



1 REVISION 1.0 11-02-2018

INTERSECTION 4225

REFER TO SHEET 111 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 611 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100012
PID NUMBER: 99733

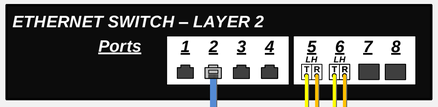
INT# 4225: HILLIARD ROME RD. AT WESTCHESTER WOODS BLVD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

649
915

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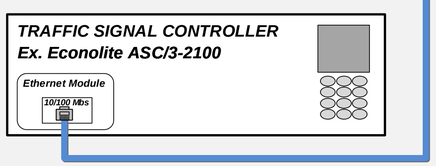
TRAFFIC SIGNAL CABINET ASSEMBLY

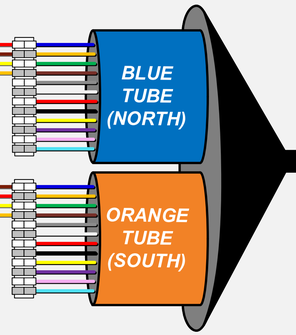


ETHERNET SWITCH PORT DESTINATION

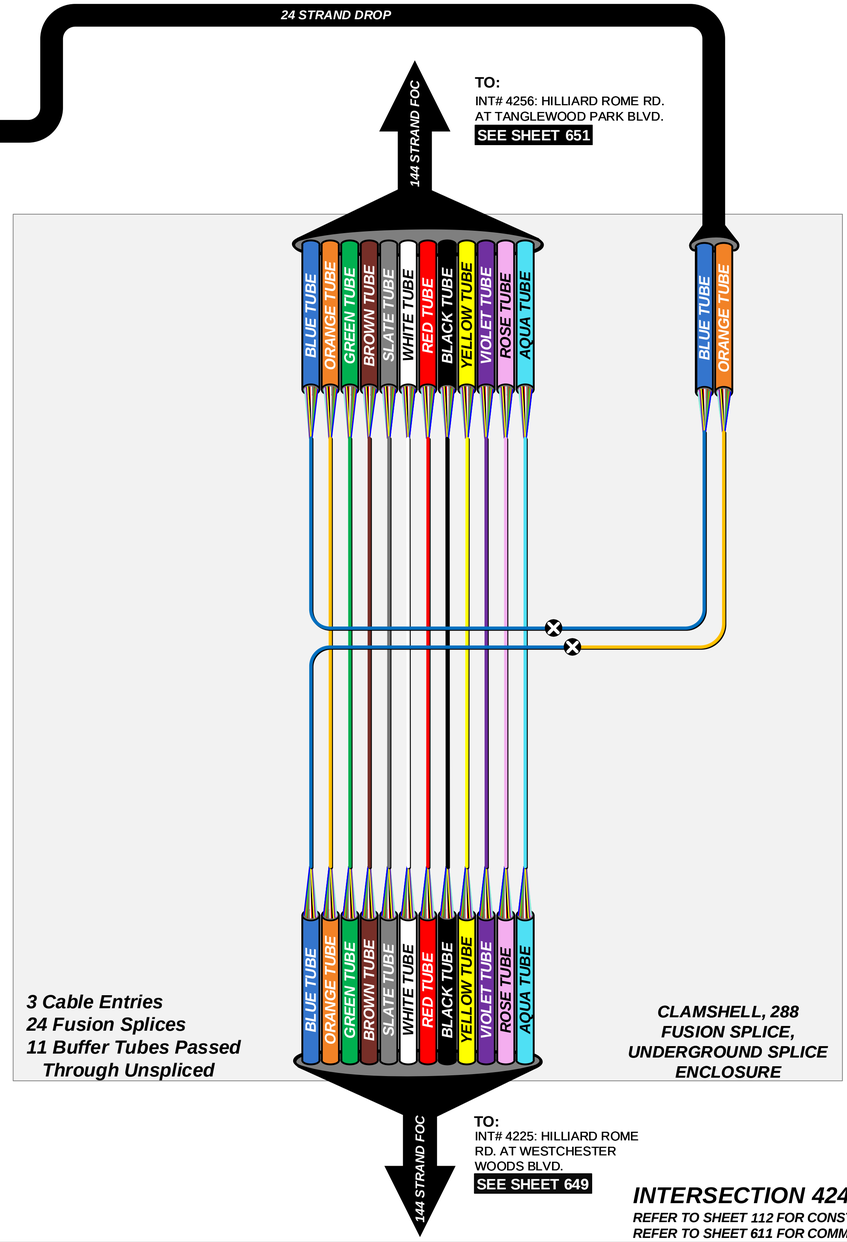
PORT 5: INT# 4239: HILLIARD ROME RD. AT NIKE DR.
SEE SHEET 652

PORT 6: INT# 4199: HILLIARD ROME RD. AT MEIJER STORE DR.
SEE SHEET 648





PATCH PANEL ENCLOSURE – 24 TERMINATION



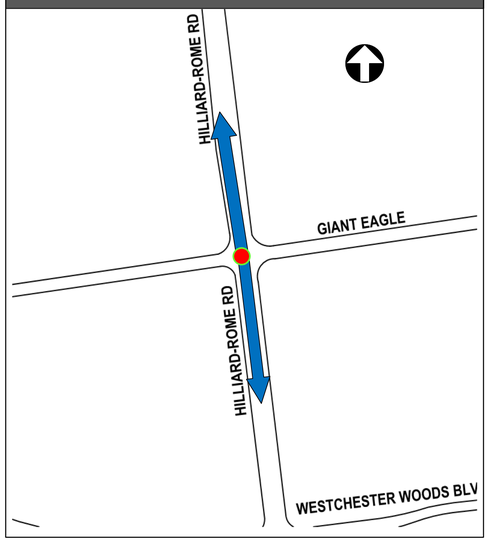
3 Cable Entries
24 Fusion Splices
11 Buffer Tubes Passed Through Unspliced

CLAMSHELL, 288 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 4240

REFER TO SHEET 112 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 611 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100012
PID NUMBER: 99733

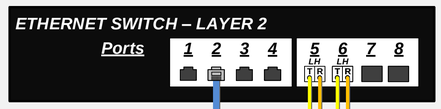
INT# 4240: GIANT EAGLE AT HILLIARD ROME RD.
COMMUNICATIONS DIAGRAM

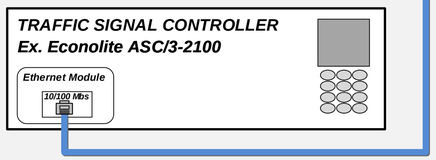
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

650
915

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TRAFFIC SIGNAL CABINET ASSEMBLY

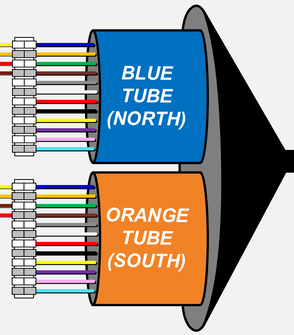




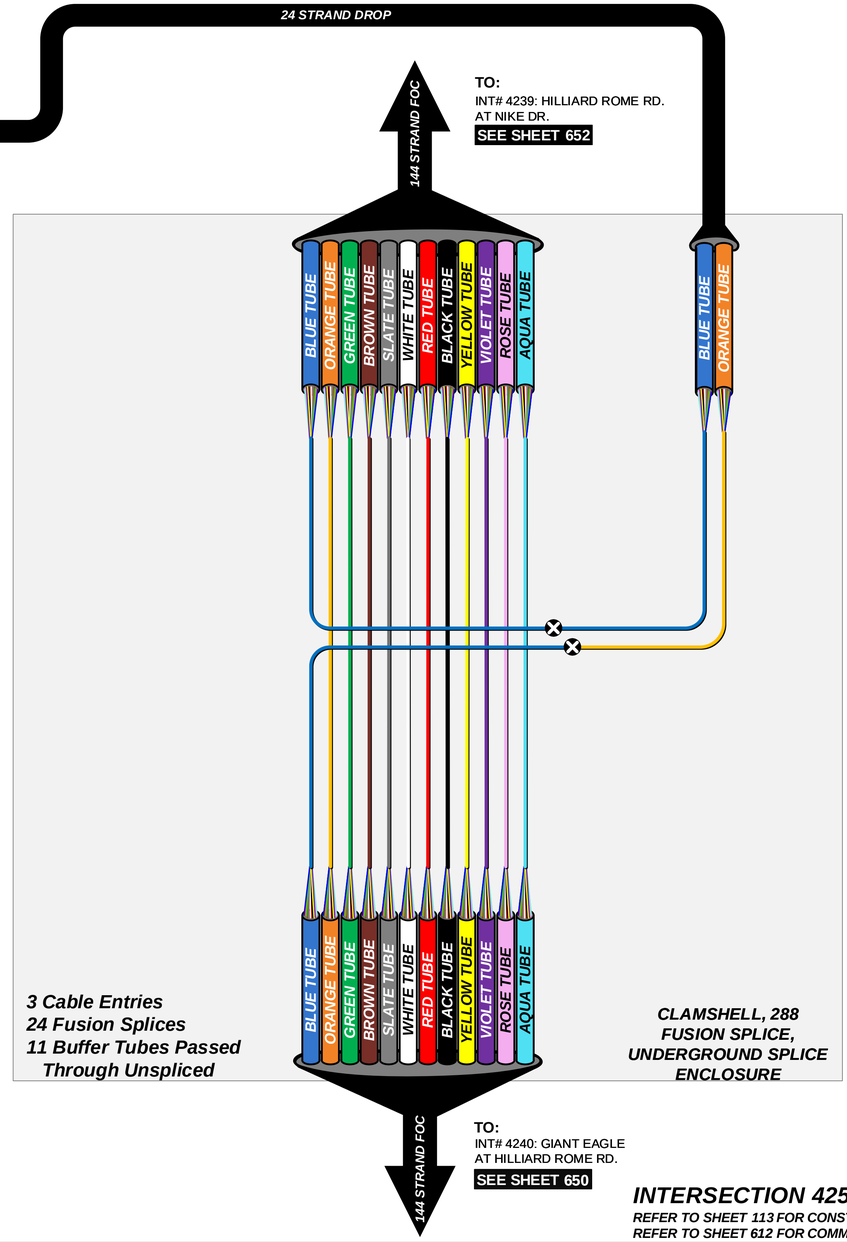
ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 4208: HILLIARD ROME RD. AT SILVERHORN CENTER DR.
SEE SHEET 653

PORT 6: INT# 4225: HILLIARD ROME RD. AT WESTCHESTER WOODS BLVD.
SEE SHEET 649



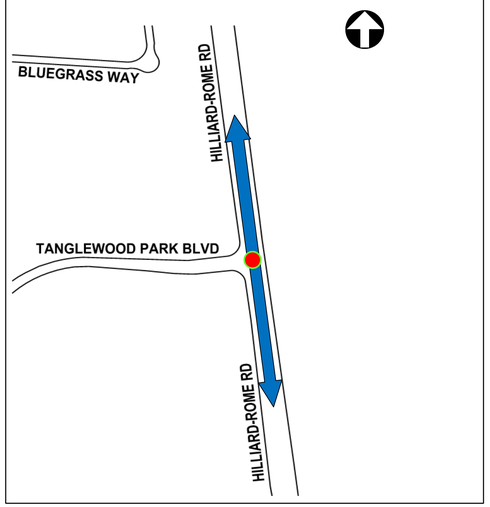
PATCH PANEL ENCLOSURE – 24 TERMINATION



LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- LH/ZX — GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 4256

REFER TO SHEET 113 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 612 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100012
PID NUMBER: 99733

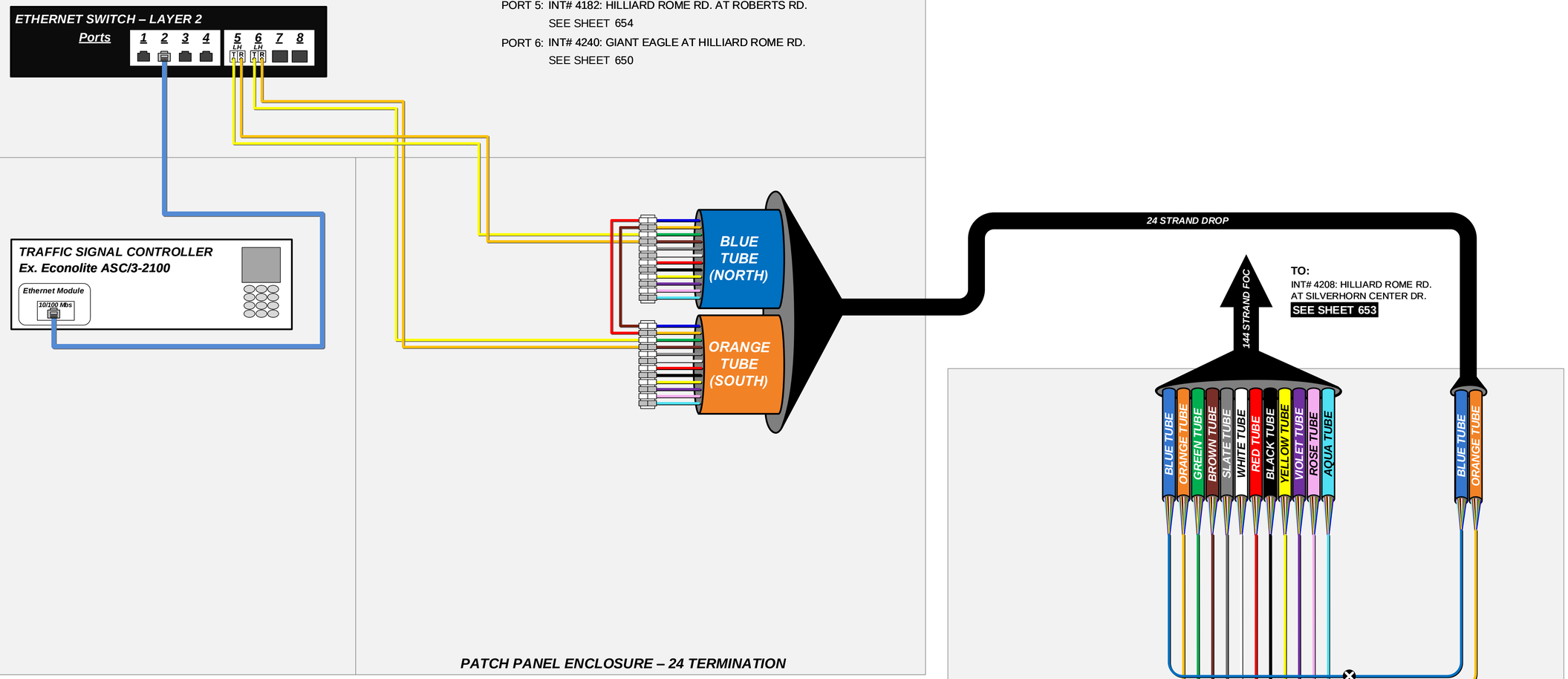
INT# 4256: HILLIARD ROME RD. AT TANGLEWOOD PARK BLVD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

651
915

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TRAFFIC SIGNAL CABINET ASSEMBLY



ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 4182: HILLIARD ROME RD. AT ROBERTS RD.
SEE SHEET 654

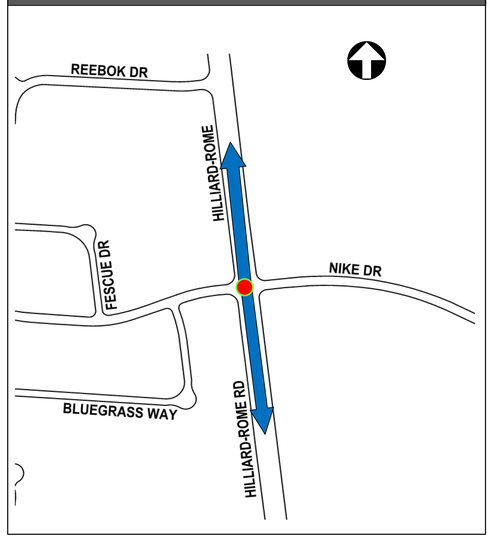
PORT 6: INT# 4240: GIANT EAGLE AT HILLIARD ROME RD.
SEE SHEET 650

PATCH PANEL ENCLOSURE – 24 TERMINATION

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 4239

REFER TO SHEET 114 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 612 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100012
PID NUMBER: 99733

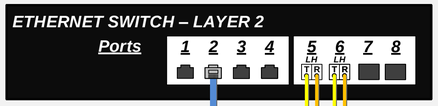
INT# 4239: HILLIARD ROME RD. AT NIKE DR.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

652
915

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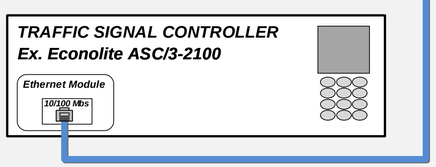
TRAFFIC SIGNAL CABINET ASSEMBLY

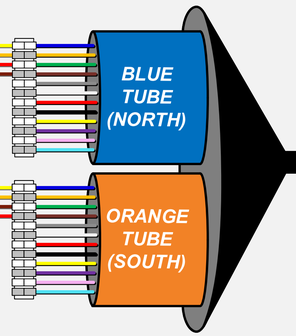


ETHERNET SWITCH PORT DESTINATION

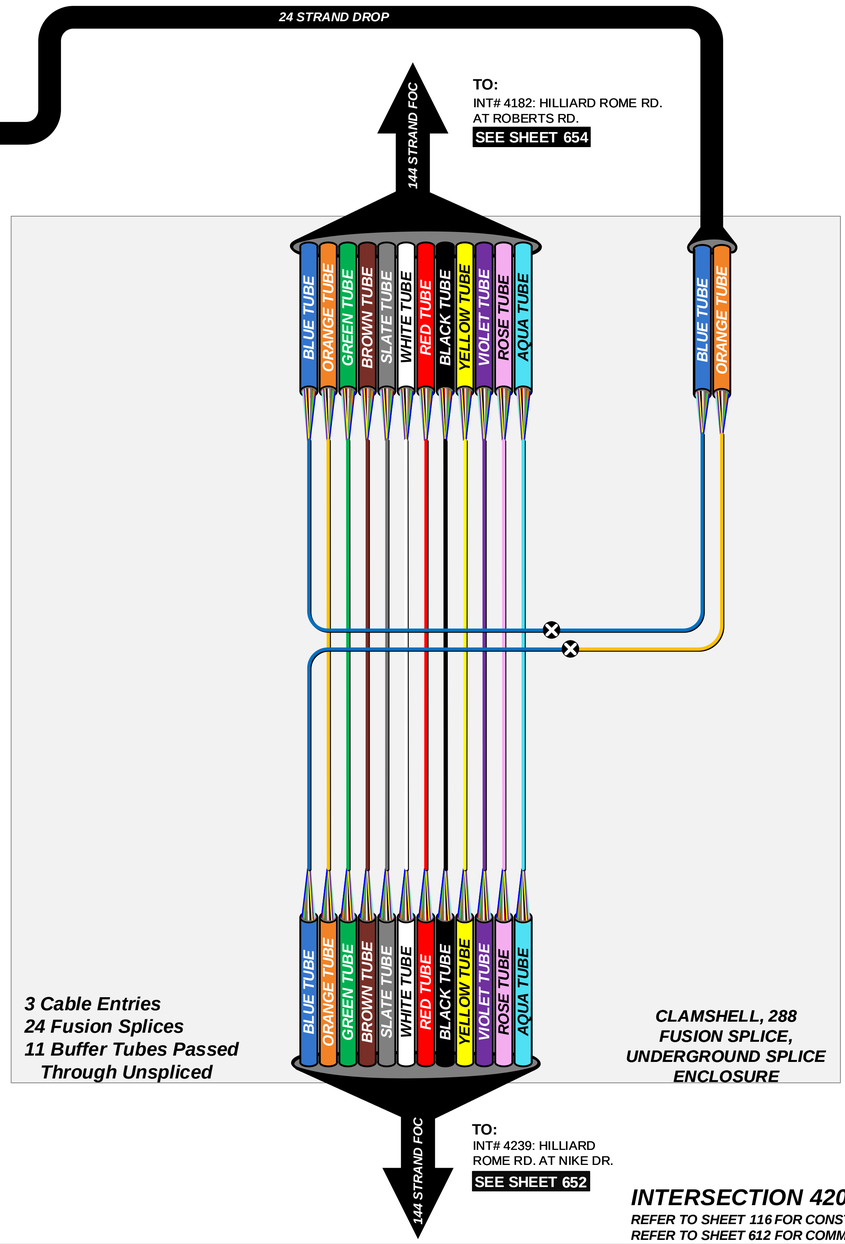
PORT 5: INT# 4181: ROBERTS RD. AT WALCUTT CT.
SEE SHEET 655

PORT 6: INT# 4256: HILLIARD ROME RD. AT TANGLEWOOD PARK BLVD.
SEE SHEET 651





PATCH PANEL ENCLOSURE – 24 TERMINATION



LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 4208

REFER TO SHEET 116 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 612 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100012
PID NUMBER: 99733

INT# 4208: HILLIARD ROME RD. AT SILVERHORN CENTER DR.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

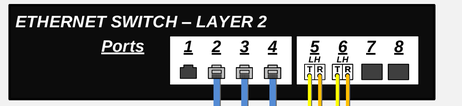
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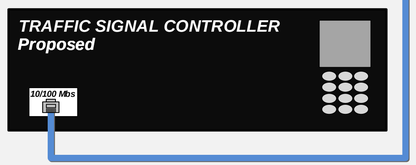
TRAFFIC SIGNAL CABINET ASSEMBLY

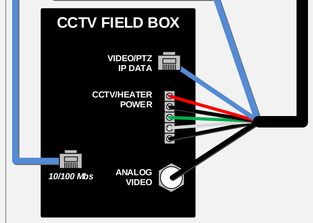
ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 4224: INTERNATIONAL ST. AT ROBERTS RD.
SEE SHEET 656

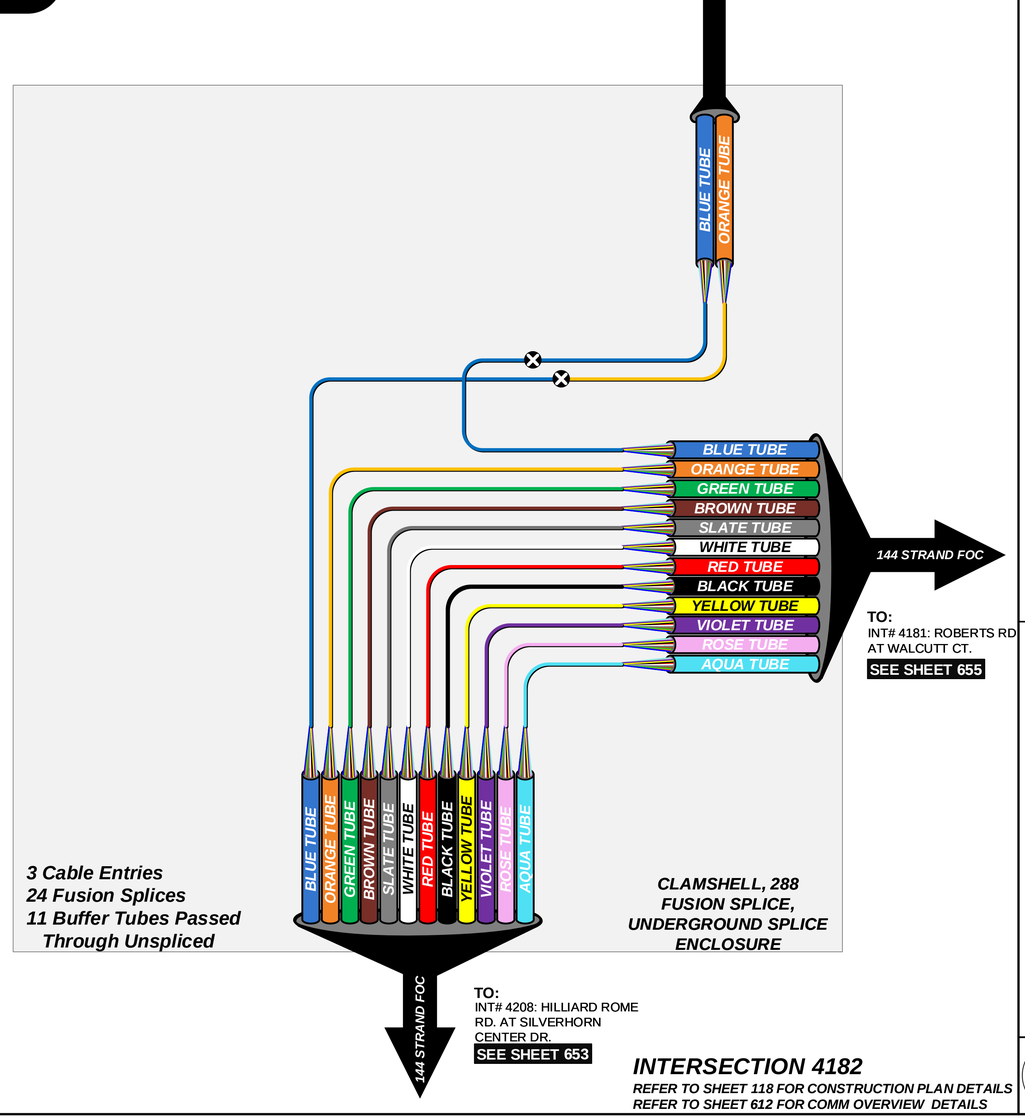
PORT 6: INT# 4239: HILLIARD ROME RD. AT NIKE DR.
SEE SHEET 652







PATCH PANEL ENCLOSURE – 24 TERMINATION



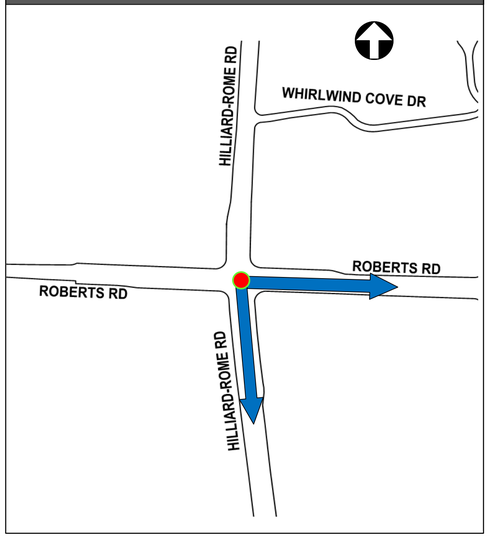
3 Cable Entries
24 Fusion Splices
11 Buffer Tubes Passed Through Unspliced

CLAMSHELL, 288 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 4182

REFER TO SHEET 118 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 612 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100012
PID NUMBER: 99733

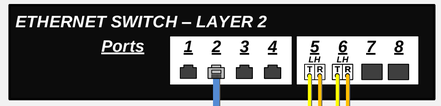
INT# 4182: HILLIARD ROME RD. AT ROBERTS RD.
COMMUNICATIONS DIAGRAM

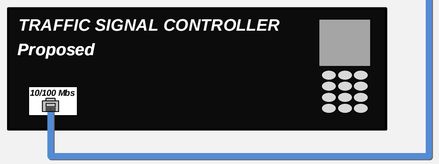
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

654
915

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TRAFFIC SIGNAL CABINET ASSEMBLY

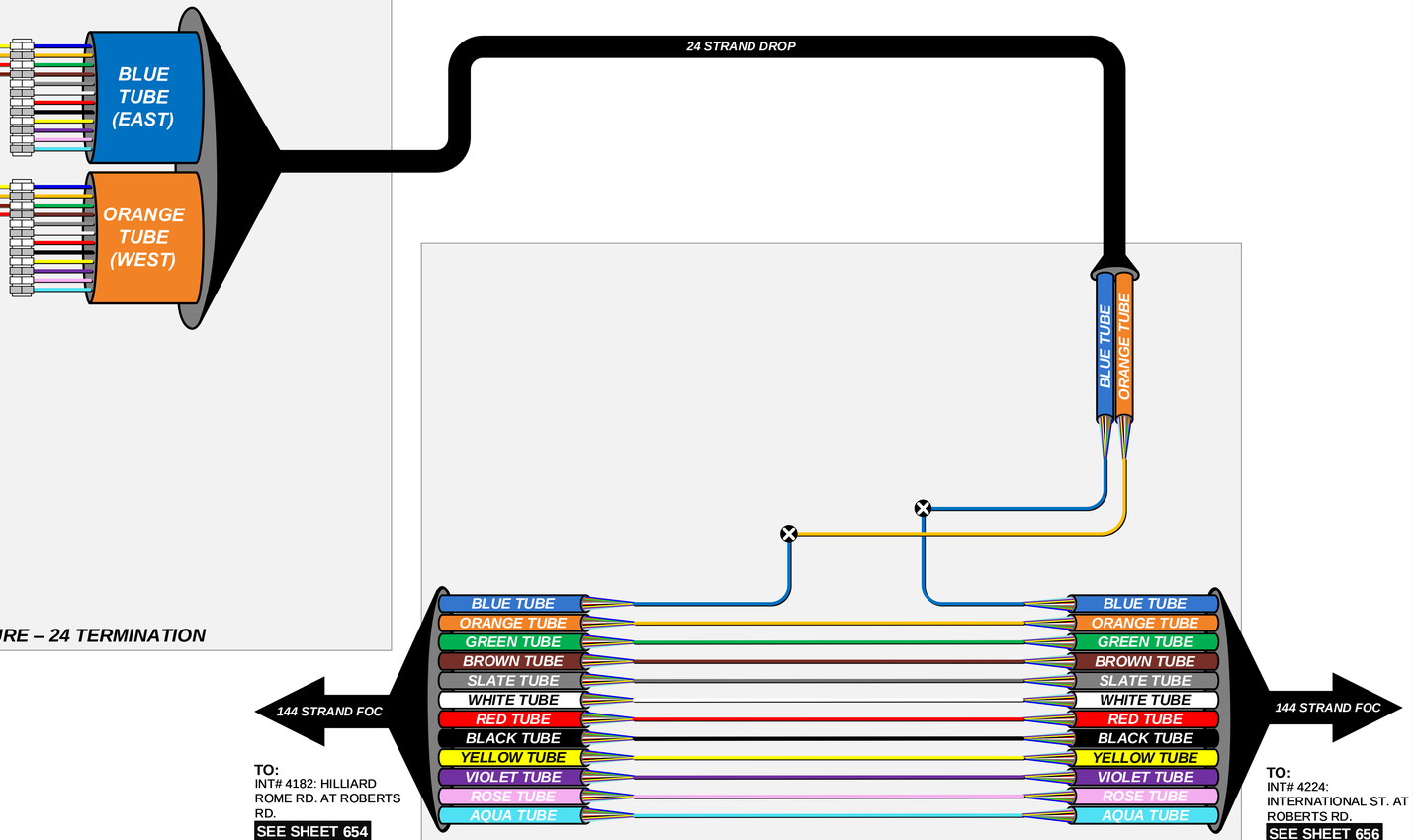




ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 4153: ROBERTS RD. AT WESTBELT DR.
SEE SHEET 657

PORT 6: INT# 4208: HILLIARD ROME RD. AT SILVERHORN CENTER DR.
SEE SHEET 653



PATCH PANEL ENCLOSURE – 24 TERMINATION

TO:
INT# 4182: HILLIARD ROME RD. AT ROBERTS RD.
SEE SHEET 654

TO:
INT# 4224: INTERNATIONAL ST. AT ROBERTS RD.
SEE SHEET 656

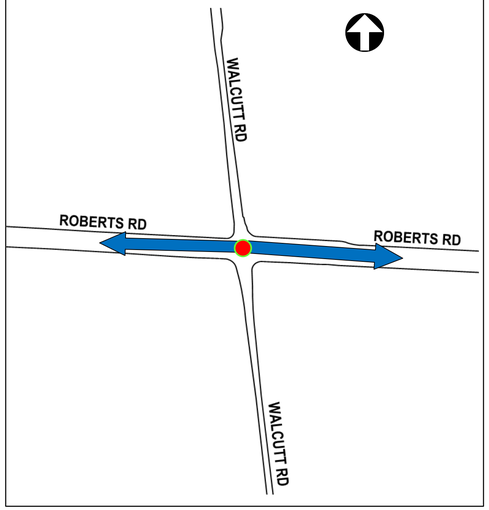
3 Cable Entries
24 Fusion Splices
11 Buffer Tubes Passed Through Unspliced

CLAMSHELL, 288 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 4181

REFER TO SHEET 121 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 612 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100012
PID NUMBER: 99733

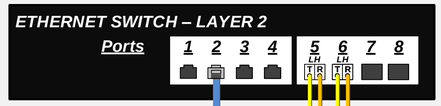
INT# 4181: ROBERTS RD. AT WALCUTT CT.
COMMUNICATIONS DIAGRAM

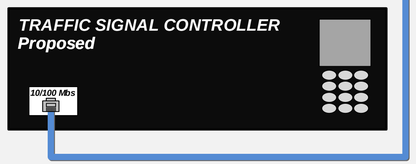
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

655
915

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TRAFFIC SIGNAL CABINET ASSEMBLY

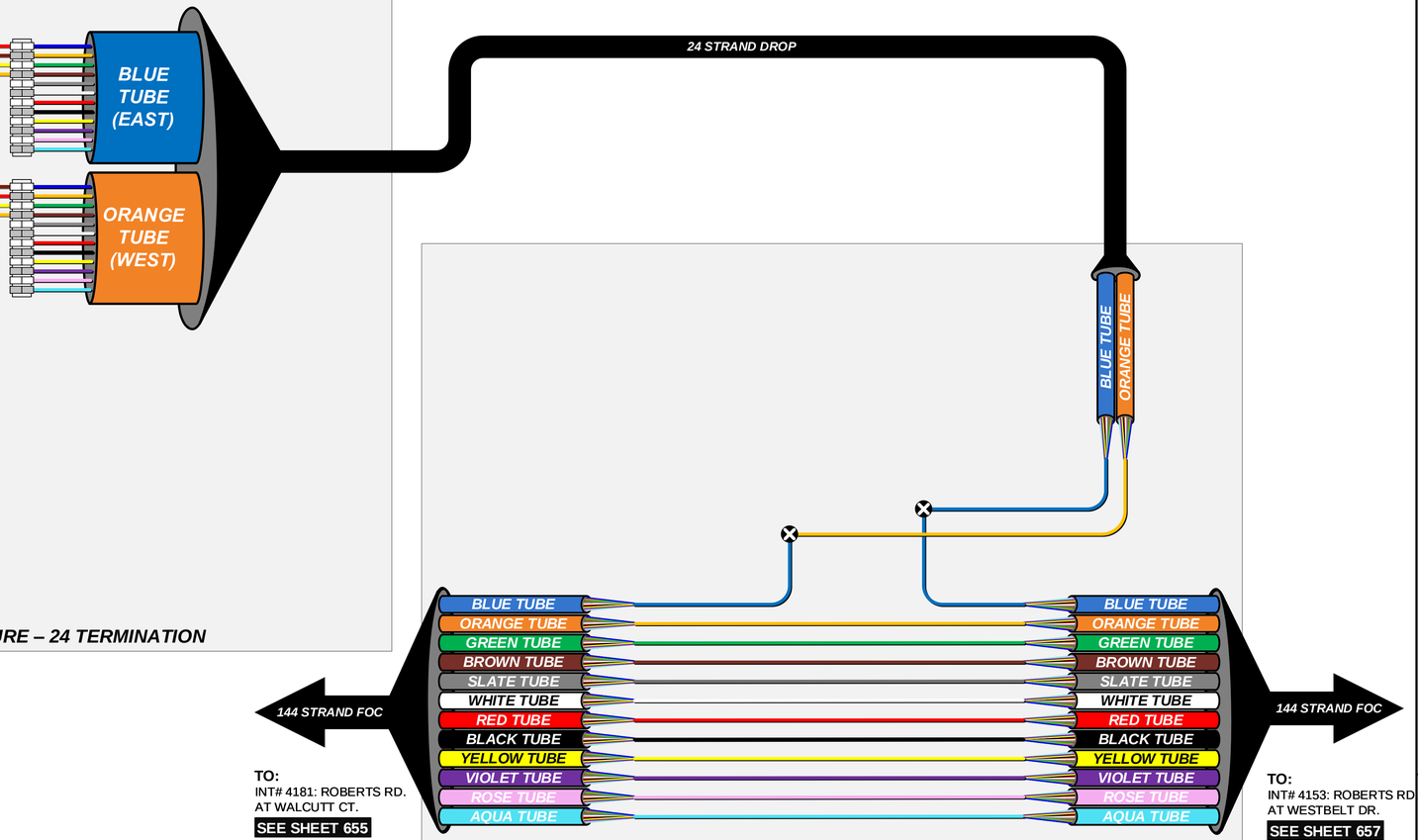




ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 4152: 1-270 SB AT ROBERTS RD.
SEE SHEET 658

PORT 6: INT# 4182: HILLIARD ROME RD. AT ROBERTS RD.
SEE SHEET 654



PATCH PANEL ENCLOSURE – 24 TERMINATION

TO:
INT# 4181: ROBERTS RD.
AT WALCUTT CT.
SEE SHEET 655

TO:
INT# 4153: ROBERTS RD
AT WESTBELT DR.
SEE SHEET 657

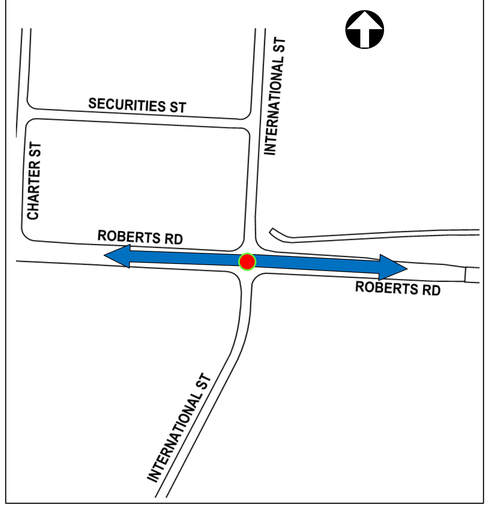
3 Cable Entries
24 Fusion Splices
11 Buffer Tubes Passed Through Unspliced

CLAMSHELL, 288 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 4224
REFER TO SHEET 123 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 612 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100012
PID NUMBER: 99733

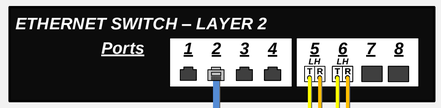
INT# 4224: INTERNATIONAL ST. AT ROBERTS RD.
COMMUNICATIONS DIAGRAM

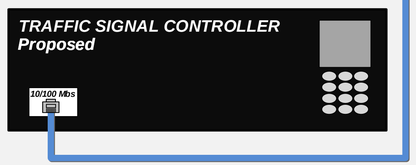
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

656
915

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TRAFFIC SIGNAL CABINET ASSEMBLY

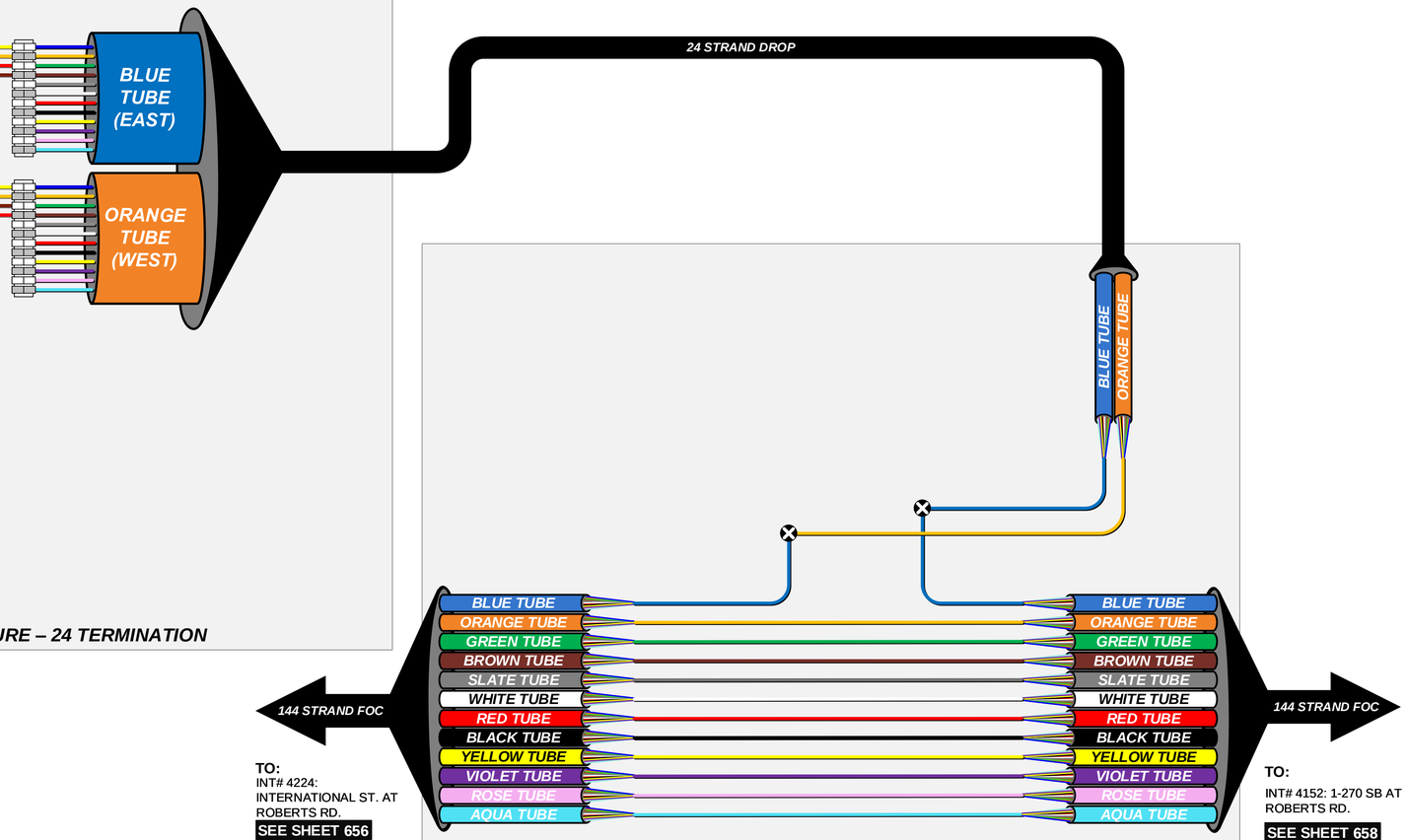




ETHERNET SWITCH PORT DESTINATION

PORT 5: EXISTING COMMUNICATION NODE# 270010.5: I-270 AT ROBERTS RD.
SEE SHEET 883

PORT 6: INT# 4181: ROBERTS RD. AT WALCUTT CT.
SEE SHEET 655



TO:
INT# 4224:
INTERNATIONAL ST. AT
ROBERTS RD.
SEE SHEET 656

TO:
INT# 4152: 1-270 SB AT
ROBERTS RD.
SEE SHEET 658

3 Cable Entries
24 Fusion Splices
11 Buffer Tubes Passed Through Unspliced

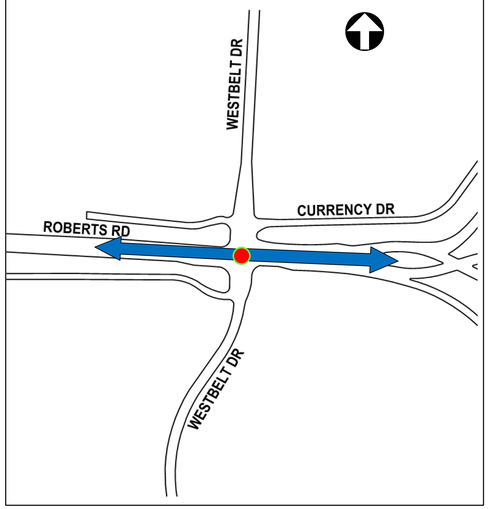
CLAMSHELL, 288 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE

PATCH PANEL ENCLOSURE – 24 TERMINATION

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 4153

REFER TO SHEET 127 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 612 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100012
PID NUMBER: 99733

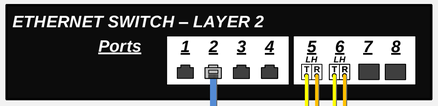
INT# 4153: ROBERTS RD. AT WESTBELT DR.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

657
915

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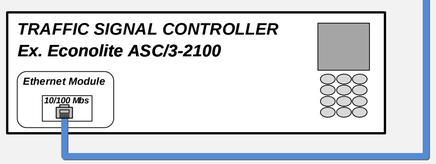
TRAFFIC SIGNAL CABINET ASSEMBLY

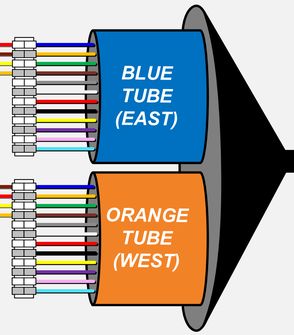


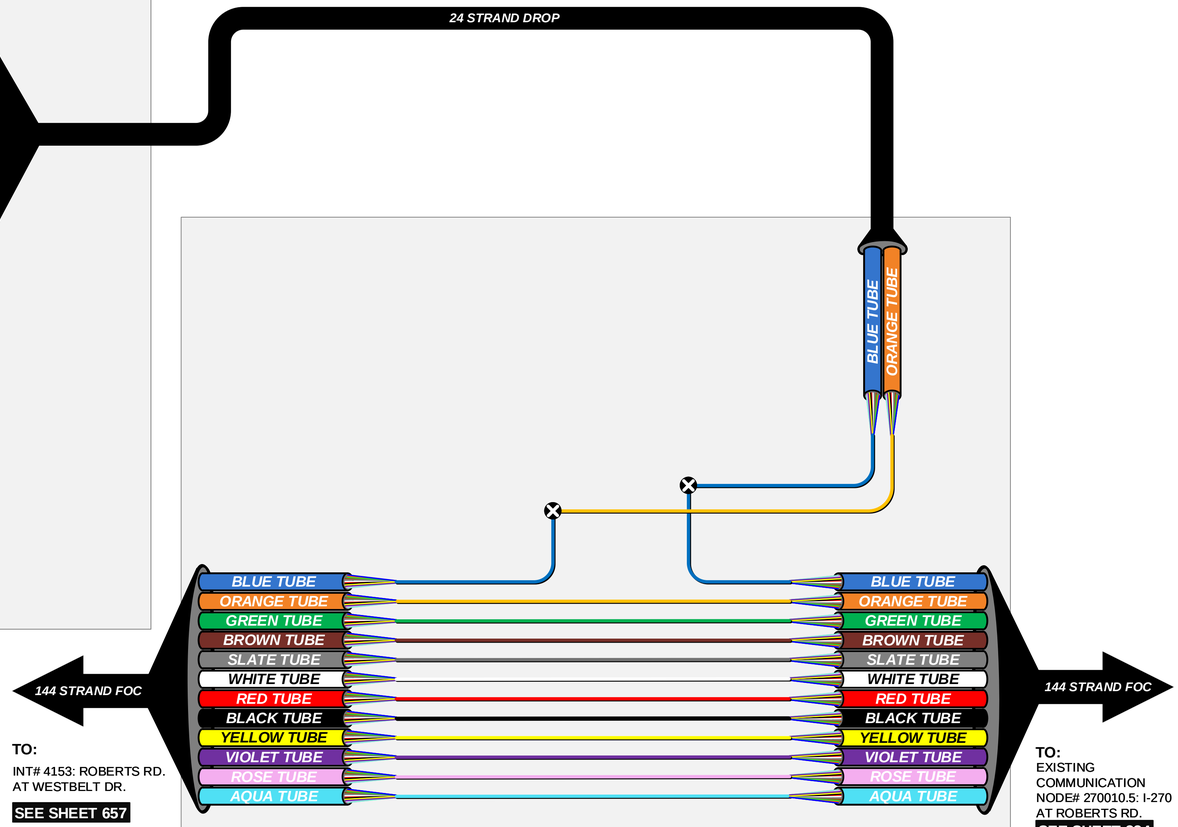
ETHERNET SWITCH PORT DESTINATION

PORT 5: EXISTING COMMUNICATION NODE# 270010.5: I-270 AT ROBERTS RD.
SEE SHEET 883

PORT 6: INT# 4224: INTERNATIONAL ST. AT ROBERTS RD.
SEE SHEET 656







TO:
INT# 4153: ROBERTS RD. AT WESTBELT DR.
SEE SHEET 657

TO:
EXISTING COMMUNICATION NODE# 270010.5: I-270 AT ROBERTS RD.
SEE SHEET 884

PATCH PANEL ENCLOSURE – 24 TERMINATION

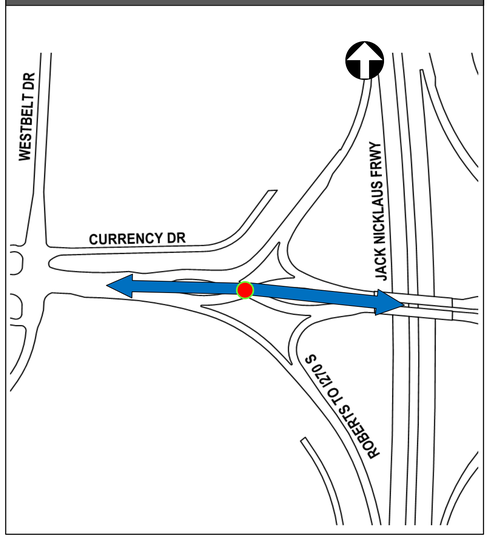
3 Cable Entries
24 Fusion Splices
11 Buffer Tubes Passed Through Unspliced

CLAMSHELL, 288 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 4152

REFER TO SHEET 127 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 614 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100012
PID NUMBER: 99733

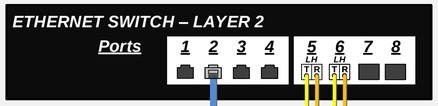
INT# 4152: 1-270 SB AT ROBERTS RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

658
915

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TRAFFIC SIGNAL CABINET ASSEMBLY

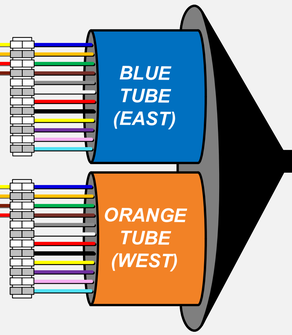


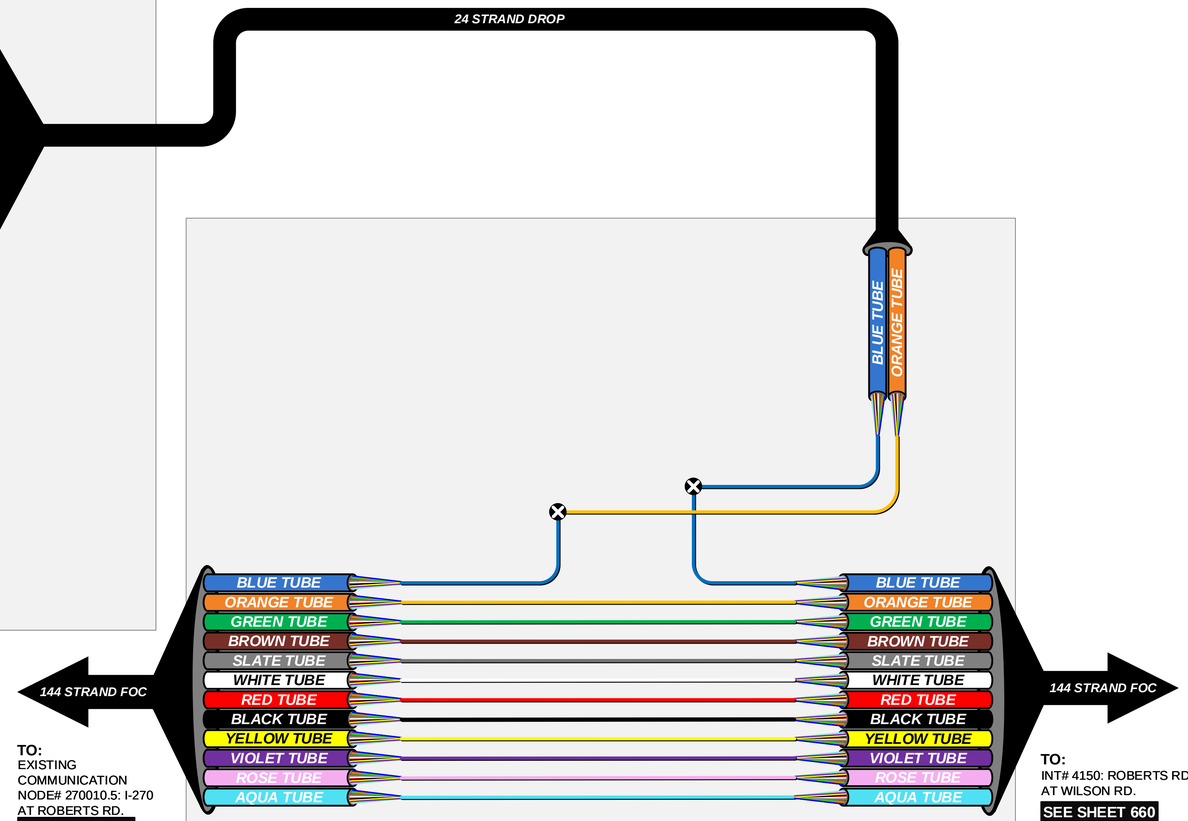
ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 4149: DUBLIN RD. AT ROBERTS RD.
SEE SHEET 662

PORT 6: EXISTING COMMUNICATION NODE# 270010.5: I-270 AT ROBERTS RD.
SEE SHEET 883







PATCH PANEL ENCLOSURE – 24 TERMINATION

TO:
EXISTING COMMUNICATION NODE# 270010.5: I-270 AT ROBERTS RD.
SEE SHEET 884

TO:
INT# 4150: ROBERTS RD AT WILSON RD.
SEE SHEET 660

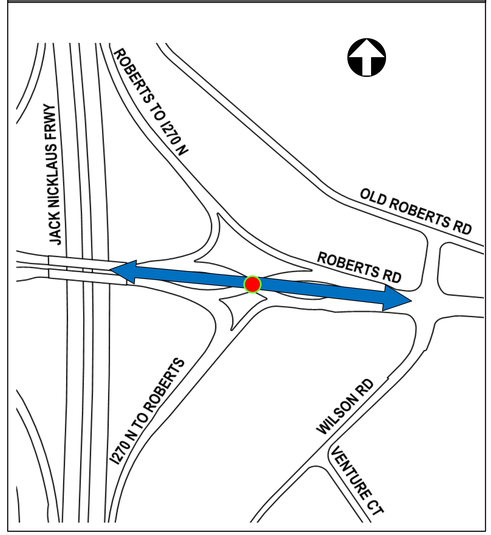
3 Cable Entries
24 Fusion Splices
11 Buffer Tubes Passed Through Unspliced

CLAMSHELL, 288 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 4151

REFER TO SHEET 128 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 614 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100012
PID NUMBER: 99733

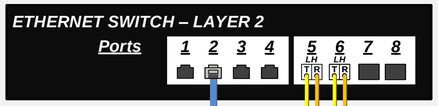
INT# 4151: I-270 NB AT ROBERTS RD.
COMMUNICATIONS DIAGRAM

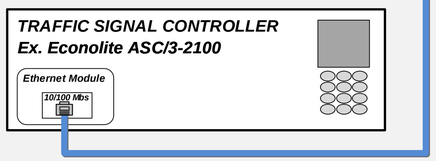
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

659
915

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TRAFFIC SIGNAL CABINET ASSEMBLY

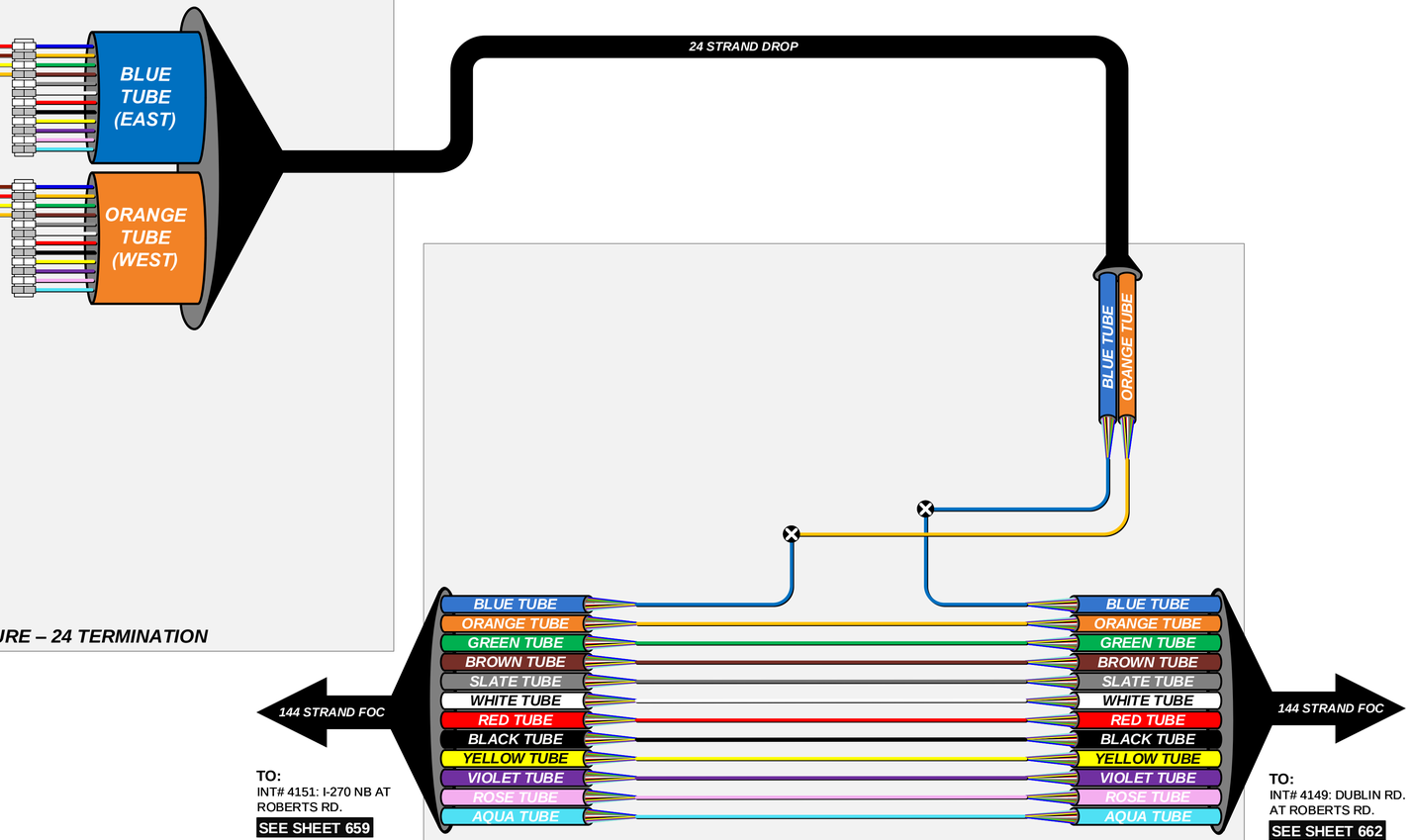




ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 4215: DUBLIN RD. AT DUNLAVIN GLEN RD. / SCIOTO DARBY CREEK RD.
SEE SHEET 661

PORT 6: EXISTING COMMUNICATION NODE# 270010.5: I-270 AT ROBERTS RD.
SEE SHEET 883



PATCH PANEL ENCLOSURE – 24 TERMINATION

TO:
INT# 4151: I-270 NB AT ROBERTS RD.
SEE SHEET 659

TO:
INT# 4149: DUBLIN RD. AT ROBERTS RD.
SEE SHEET 662

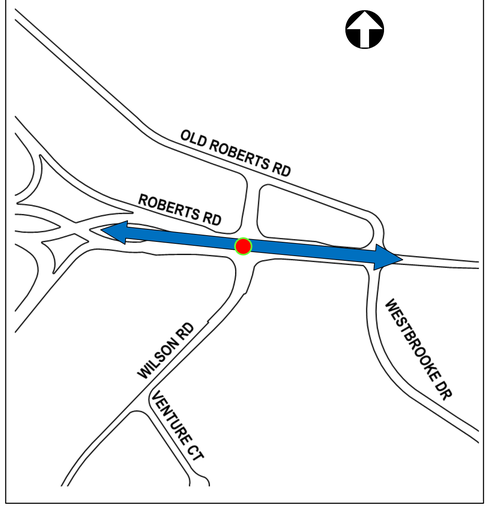
3 Cable Entries
24 Fusion Splices
11 Buffer Tubes Passed Through Unspliced

CLAMSHELL, 288 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 4150
REFER TO SHEET 129 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 614 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100012
PID NUMBER: 99733

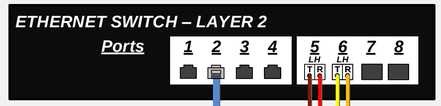
INT# 4150: ROBERTS RD. AT WILSON RD.
COMMUNICATIONS DIAGRAM

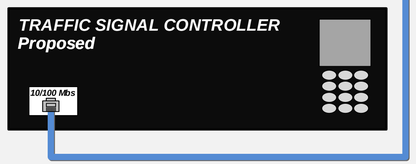
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

660
915

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TRAFFIC SIGNAL CABINET ASSEMBLY

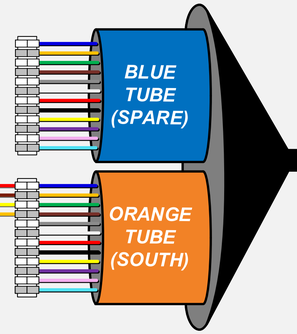


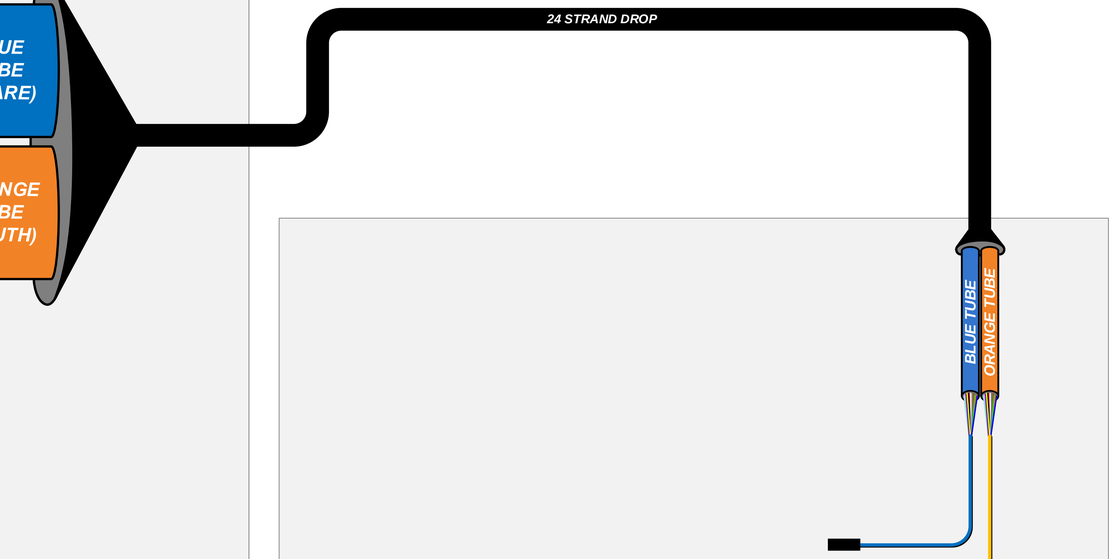


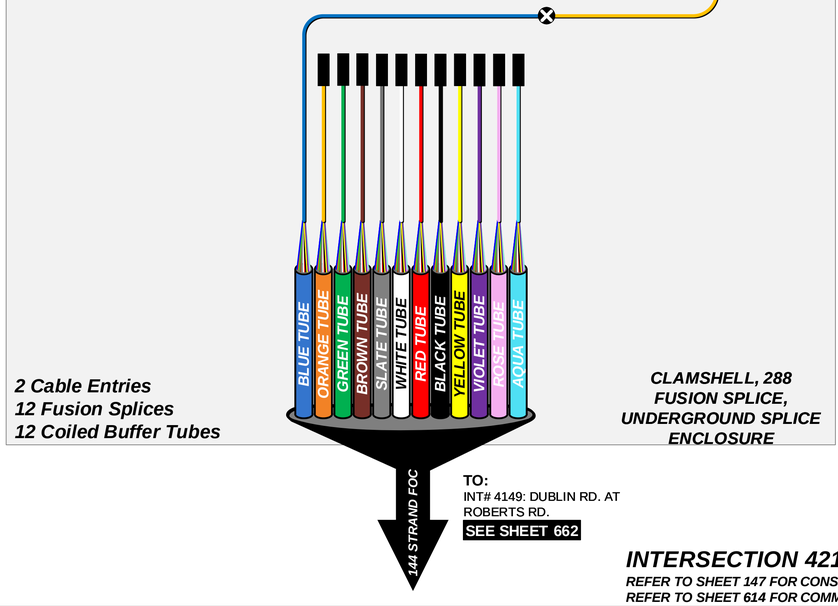
ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 4149: DUBLIN RD. AT ROBERTS RD.
SEE SHEET 662

PORT 6: INT# 4150: ROBERTS RD. AT WILSON RD.
SEE SHEET 660







2 Cable Entries
12 Fusion Splices
12 Coiled Buffer Tubes

CLAMSHELL, 288 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE

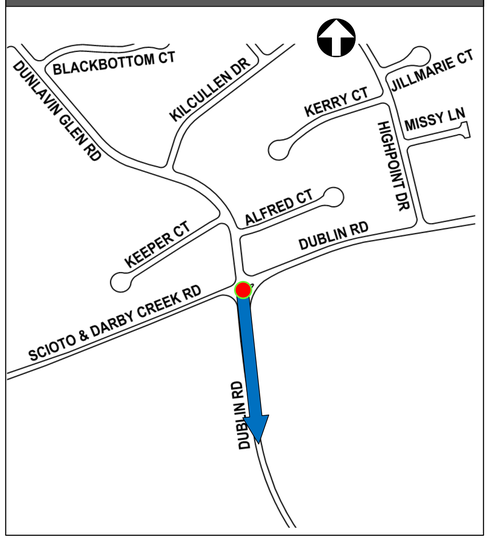
TO:
INT# 4149: DUBLIN RD. AT ROBERTS RD.
SEE SHEET 662

PATCH PANEL ENCLOSURE – 24 TERMINATION

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 4215
REFER TO SHEET 147 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 614 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100012
PID NUMBER: 99733

INT# 4215: DUBLIN RD. AT DUNLAVIN GLEN RD. / SCIOTO DARBY CREEK RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

661
915

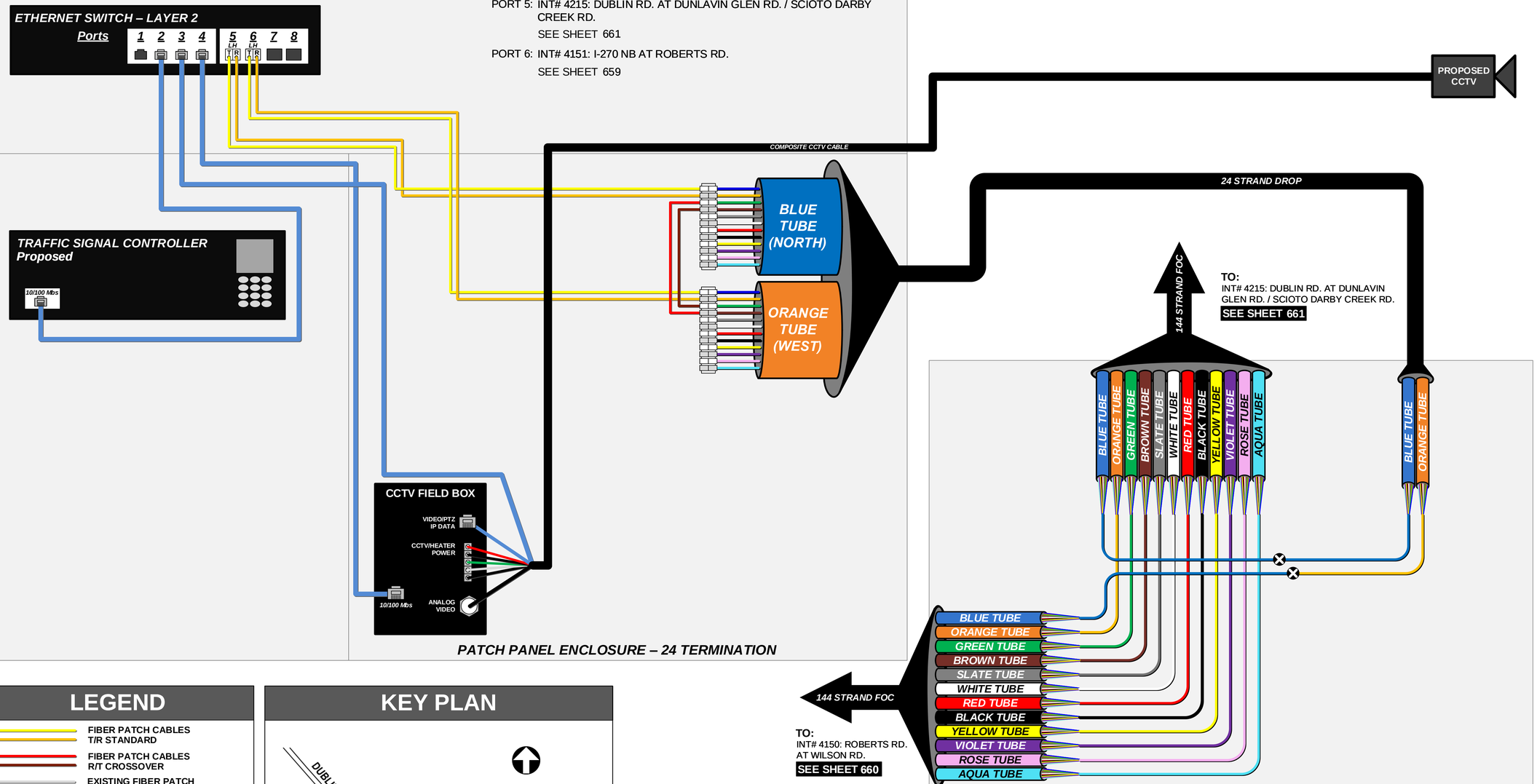
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TRAFFIC SIGNAL CABINET ASSEMBLY

ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 4215: DUBLIN RD. AT DUNLAVIN GLEN RD. / SCIOTO DARBY CREEK RD.
SEE SHEET 661

PORT 6: INT# 4151: I-270 NB AT ROBERTS RD.
SEE SHEET 659

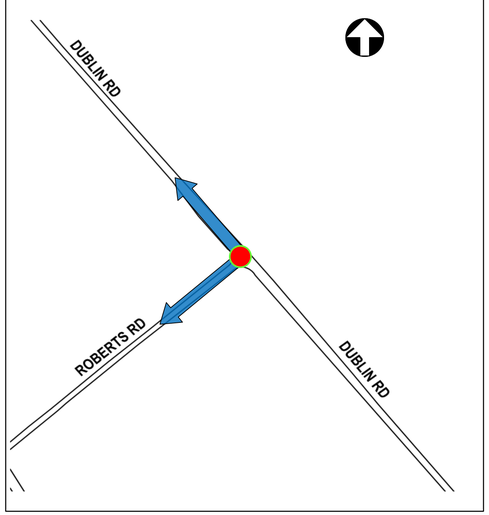


PATCH PANEL ENCLOSURE – 24 TERMINATION

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- *LH/ZX* GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 4149

REFER TO SHEET 145 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 614 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100012
PID NUMBER: 99733

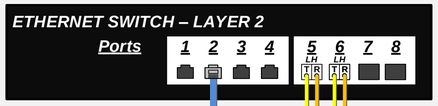
INT# 4149: DUBLIN RD. AT ROBERTS RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

662
915

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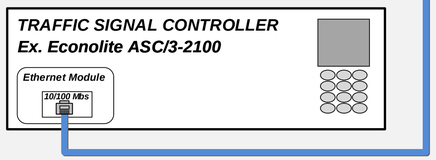
TRAFFIC SIGNAL CABINET ASSEMBLY

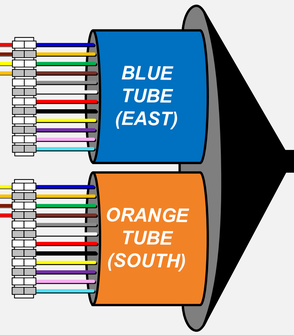


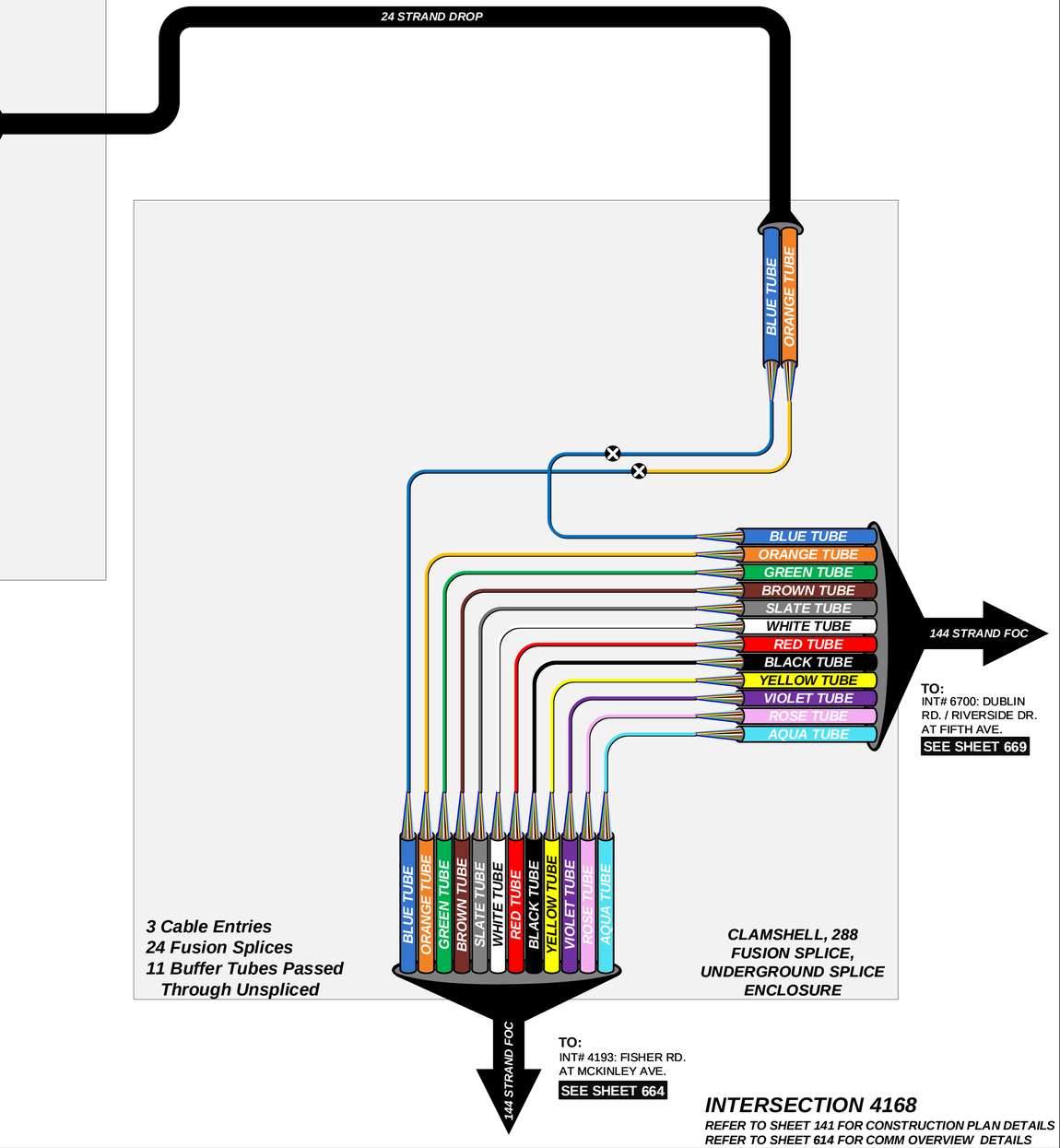
ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 4232: DUBLIN RD. AT I-670 EB RAMPS
SEE SHEET 666

PORT 6: INT# SIG4120: FISHER RD. AT HAGUE AVE.
SEE SHEET 665





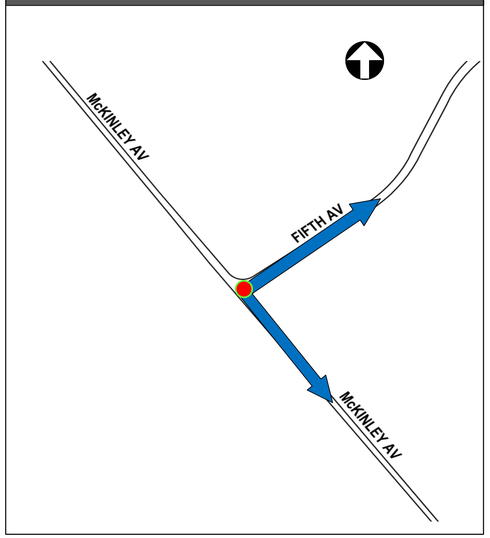


PATCH PANEL ENCLOSURE – 24 TERMINATION

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- LH/ZX (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 288 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 4168

REFER TO SHEET 141 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 614 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100012
PID NUMBER: 99733

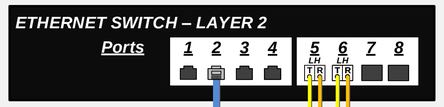
INT# 4168: FIFTH AVE. AT MCKINLEY AVE.
COMMUNICATIONS DIAGRAM

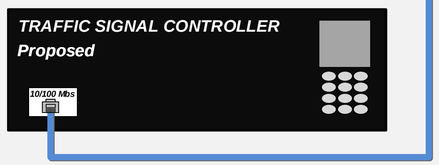
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

663
915

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TRAFFIC SIGNAL CABINET ASSEMBLY

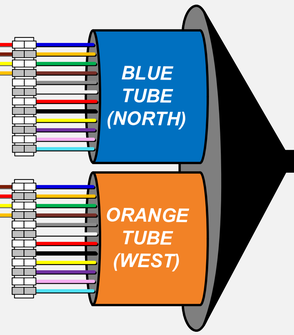


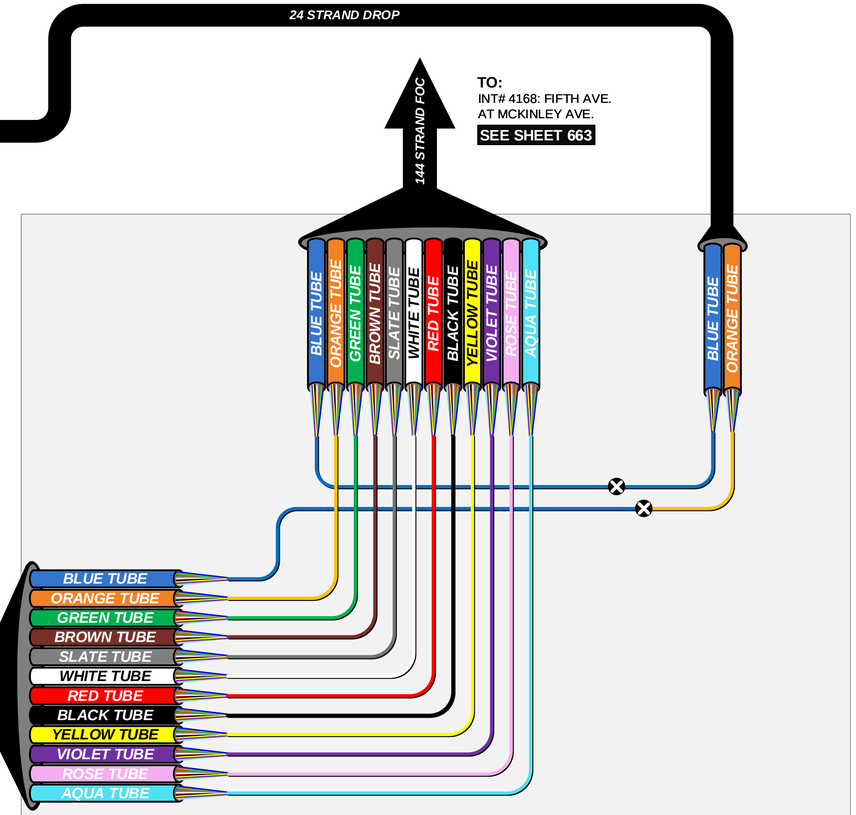


ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 6700: DUBLIN RD. / RIVERSIDE DR. AT FIFTH AVE.
SEE SHEET 669

PORT 6: INT# 1047: HAGUE AVE. AT STEELE AVE.
SEE SHEET 666





PATCH PANEL ENCLOSURE – 24 TERMINATION

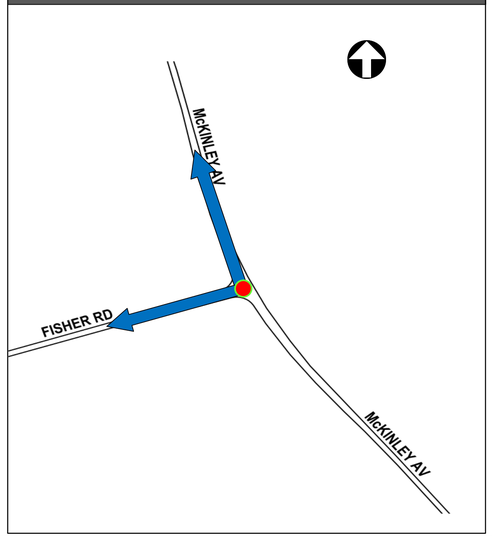
3 Cable Entries
24 Fusion Splices
11 Buffer Tubes Passed Through Unspliced

CLAMSHELL, 288 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- *LH/ZX* (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 288 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 4193

REFER TO SHEET 138 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 614 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100012
PID NUMBER: 99733

INT# 4193: FISHER RD. AT MCKINLEY AVE.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

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TRAFFIC SIGNAL CABINET ASSEMBLY

EXISTING ETHERNET SWITCH – LAYER 2

Ports 1 2 3 4 5 6 7 8 (5, 6: LH T/R)

TRAFFIC SIGNAL CONTROLLER
Ex. Econolite ASC/3-2100

Ethernet Module
10/100 Mbs

ETHERNET SWITCH PORT DESTINATION

PORT 5: EXISTING CONNECTION TO INT# SIG4160: HAGUE AVE. AT EL PASO DR.

PORT 6: INT# 4168: FIFTH AVE. AT MCKINLEY AVE.

SEE SHEET 663

EXISTING PATCH PANEL ENCLOSURE – 24 TERMINATION

- BLUE TUBE (NORTH)
- ORANGE TUBE (SOUTH)
- BLUE TUBE (EAST)
- ORANGE TUBE (SPARE)

PATCH PANEL ENCLOSURE – 24 TERMINATION

24 STRAND DROP

EXISTING 24 STRAND DROP

144 STRAND FOC

TO:
SPLICE ENCLOSURE AT HAGUE AVE. AT I-70

BLUE TUBE, ORANGE TUBE, GREEN TUBE, BROWN TUBE, SLATE TUBE, WHITE TUBE, RED TUBE, BLACK TUBE, YELLOW TUBE, VIOLET TUBE, ROSE TUBE, AQUA TUBE

BLUE TUBE, ORANGE TUBE

BLUE TUBE, ORANGE TUBE

1-6, 7-12, 1-6, 7-12, 1-6, 7-12

24SMF CABLE ODOT

BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE
RED TUBE
BLACK TUBE
YELLOW TUBE
VIOLET TUBE
ROSE TUBE
AQUA TUBE

144 STRAND FOC

TO:
INT# 4193: FISHER RD. AT MCKINLEY AVE.
SEE SHEET 664

BLUE TUBE, ORANGE TUBE, GREEN TUBE, BROWN TUBE, SLATE TUBE, WHITE TUBE, RED TUBE, BLACK TUBE, YELLOW TUBE, VIOLET TUBE, ROSE TUBE, AQUA TUBE

144 STRAND FOC

TO:
INT# 6170: HAGUE AVE. AT VALLEYVIEW DR.

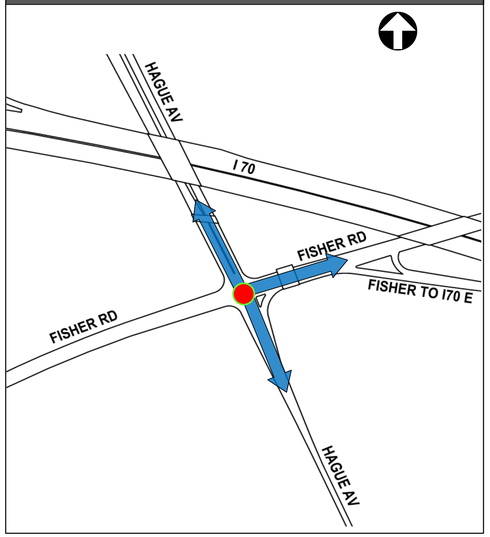
6 Cable Entries
180 Proposed Fusion Splices
222 Total Fusion Splices
5 Coiled Buffer Tubes

CLAMSHELL, 288 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- LH/ZX (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 288 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



NOTES.

DISCONNECT EXISTING LC FIBER PATCH CABLES BETWEEN EXISTING PATCH PANEL AND NETWORK SWITCH. REPLACE CONNECTION WITH PATCH CABLES AS SHOWN IN COLOR ON PLAN ABOVE.

INTERSECTION SIG4120

REFER TO SHEET 133 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 614 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100012
PID NUMBER: 99733

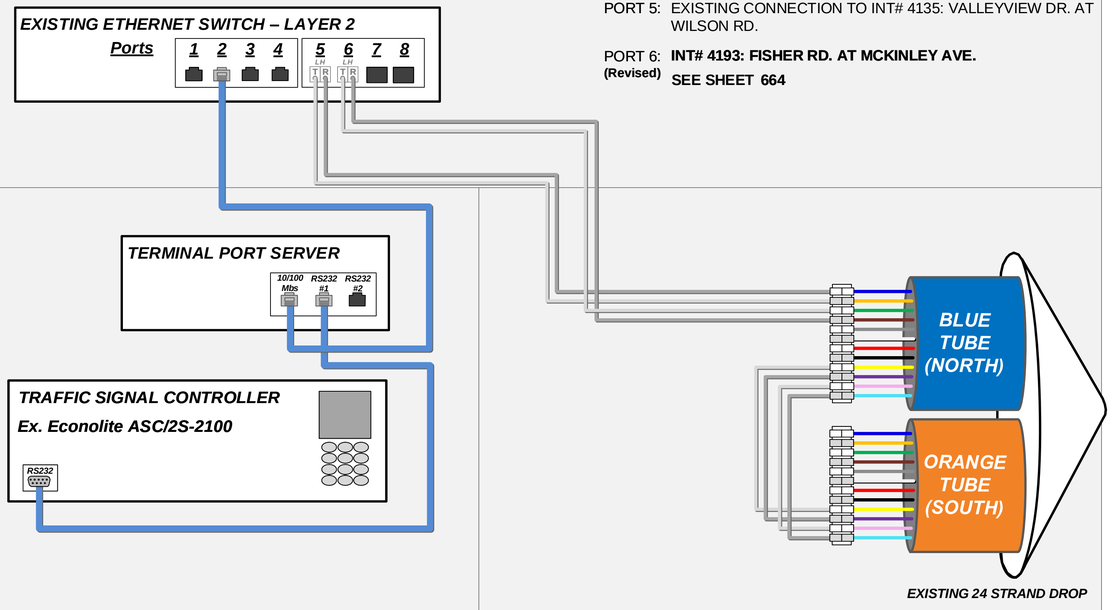
INT# SIG4120: FISHER RD. AT HAGUE AVE.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

665
915

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TRAFFIC SIGNAL CABINET ASSEMBLY



REVISED ETHERNET SWITCH PORT DESTINATION

PORT 5: EXISTING CONNECTION TO INT# 4135: VALLEYVIEW DR. AT WILSON RD.

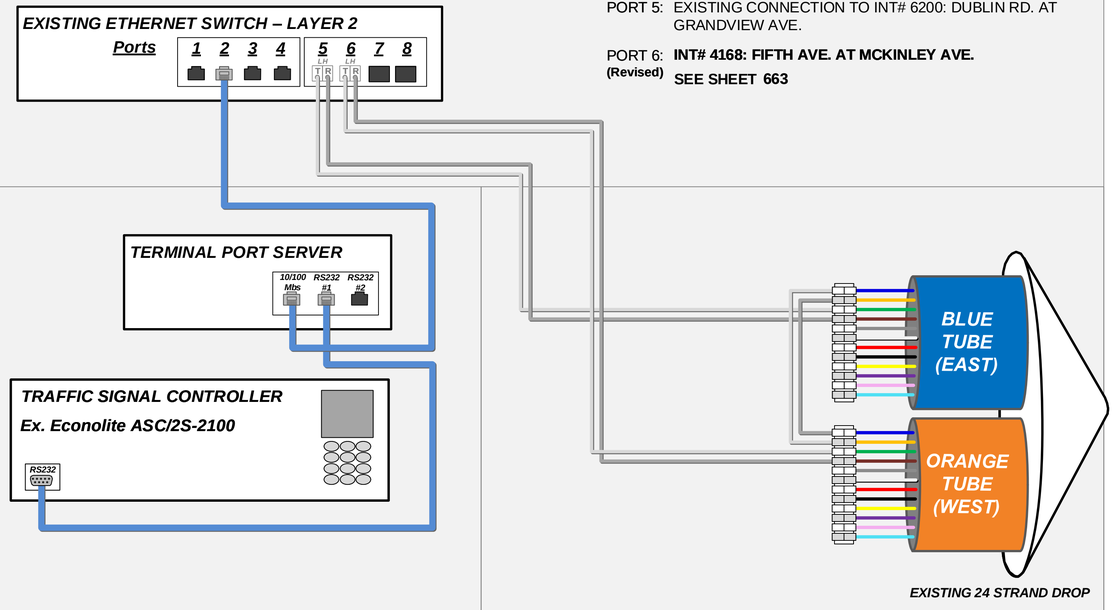
PORT 6: **INT# 4193: FISHER RD. AT MCKINLEY AVE.**
(Revised) **SEE SHEET 664**

INTERSECTION 1047

HAGUE AVE. AT STEELE AVE.
REFER TO SHEET 614 FOR COMM OVERVIEW DETAILS

EXISTING PATCH PANEL ENCLOSURE – 24 TERMINATION

TRAFFIC SIGNAL CABINET ASSEMBLY



REVISED ETHERNET SWITCH PORT DESTINATION

PORT 5: EXISTING CONNECTION TO INT# 6200: DUBLIN RD. AT GRANDVIEW AVE.

PORT 6: **INT# 4168: FIFTH AVE. AT MCKINLEY AVE.**
(Revised) **SEE SHEET 663**

INTERSECTION 4232

DUBLIN RD. AT I-670 EB RAMPS
REFER TO SHEET 614 FOR COMM OVERVIEW DETAILS

EXISTING PATCH PANEL ENCLOSURE – 24 TERMINATION

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- *LH/ZX* (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 288 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

CIP: 540007 - 100012
PID NUMBER: 99733

INTS 1047 AND 4232 PATCH PANELS
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

666
915

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TRAFFIC SIGNAL CABINET ASSEMBLY

ETHERNET SWITCH – LAYER 2

Ports 1 2 3 4 5 6 7 8

TRAFFIC SIGNAL CONTROLLER
Proposed

10/100 Mbs

CCTV FIELD BOX

- VIDEO/PTZ IP DATA
- CCTV/HEATER POWER
- ANALOG VIDEO
- 10/100 Mbs

PATCH PANEL ENCLOSURE – 24 TERMINATION

PROPOSED CCTV

COMPOSITE CCTV CABLE

24 STRAND DROP

BLUE TUBE (SPARE)

ORANGE TUBE (SOUTH)

1

BLUE TUBE

ORANGE TUBE

BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE
RED TUBE
BLACK TUBE
YELLOW TUBE
VIOLET TUBE
ROSE TUBE
AQUA TUBE

144 STRAND FOC

TO:
SLACK COILED AT
STA. 45+39, 41' LT
SEE PLAN SHEET 154
1

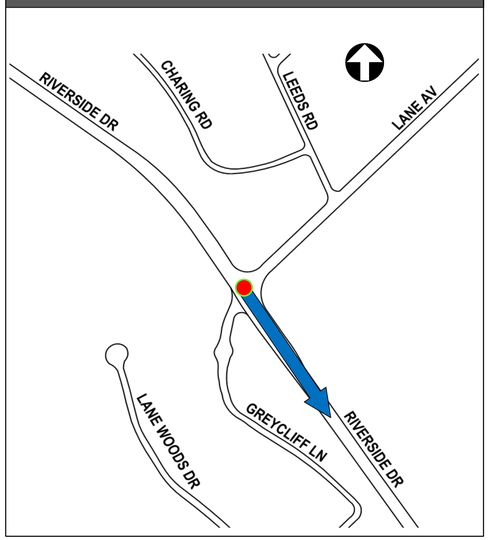
2 Cable Entries
12 Fusion Splices
12 Coiled Buffer Tubes

CLAMSHELL, 288 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- LH/ZX (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 288 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



1 REVISION 1.0 11-02-2018

INTERSECTION 4124

REFER TO SHEET 156 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 614 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100012
PID NUMBER: 99733

INT# 4124: LANE AVE. AT RIVERSIDE DR.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

667
915

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1

1 REVISION 1.0
11-02-2018

CIP: 540007 - 100012
PID NUMBER: 99733

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

668
915

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TRAFFIC SIGNAL CABINET ASSEMBLY

ETHERNET SWITCH – LAYER 2

Ports: 1 2 3 4 5 (LH T R) 6 (LH T R) 7 8

TRAFFIC SIGNAL CONTROLLER
Ex. Econolite ASC/3-2100

Ethernet Module — 10/100 Mbs

CCTV FIELD BOX

- VIDEO/PTZ IP DATA
- CCTV/HEATER POWER
- 10/100 Mbs
- ANALOG VIDEO

ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 4132: DUBLIN RD. AT STELLA CT.
SEE SHEET 670

PORT 6: INT# 4193: FISHER RD. AT MCKINLEY AVE.
SEE SHEET 664

COMPOSITE CCTV CABLE

PROPOSED CCTV

24 STRAND DROP

BLUE TUBE (SOUTH)

ORANGE TUBE (WEST)

PATCH PANEL ENCLOSURE – 24 TERMINATION

144 STRAND FOC

TO:
INT# 4168: FIFTH AVE.
AT MCKINLEY AVE.
SEE SHEET 663

BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE
RED TUBE
BLACK TUBE
YELLOW TUBE
VIOLET TUBE
ROSE TUBE
AQUA TUBE

3 Cable Entries
24 Fusion Splices
11 Buffer Tubes Passed Through Unspliced

CLAMSHELL, 288 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE

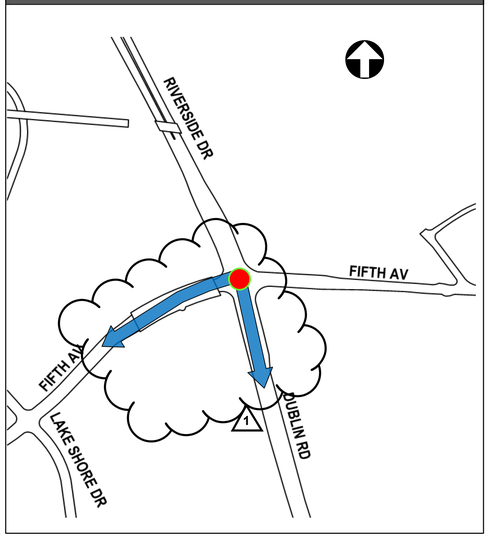
144 STRAND FOC

TO:
INT# 4132: DUBLIN RD.
AT STELLA CT.
SEE SHEET 670

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- LH/ZX — GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 288 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



1 REVISION 1.0 11-02-2018

INTERSECTION 6700

REFER TO SHEET 152 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 614 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100012
PID NUMBER: 99733

INT# 6700: DUBLIN RD. / RIVERSIDE DR. AT FIFTH AVE.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

669
915

TRAFFIC SIGNAL CABINET ASSEMBLY

REVISED ETHERNET SWITCH PORT DESTINATION

PORT 5: EXISTING CONNECTION TO INT# 4131: DUBLIN RD. AT URLIN AVE.

PORT 6: **(Revised)** **INT# 6700: DUBLIN RD. / RIVERSIDE DR. AT FIFTH AVE.** **SEE SHEET 669**

1

EXISTING ETHERNET SWITCH – LAYER 2

Ports 1 2 3 4 5 6 7 8

TERMINAL PORT SERVER

10/100 Mbs | RS232 #1 | RS232 #2

TRAFFIC SIGNAL CONTROLLER
Ex. Econolite ASC/2S-2100

RS232

BLUE TUBE (NORTH)

ORANGE TUBE (SOUTH)

EXISTING PATCH PANEL ENCLOSURE – 24 TERMINATION

EXISTING 24 STRAND DROP

144 STRAND FOC

TO:
INT# 6700: DUBLIN RD. /
RIVERSIDE DR. AT FIFTH AVE.
SEE SHEET 669

BLUE TUBE ***ORANGE TUBE*** ***GREEN TUBE*** ***BROWN TUBE*** ***SLATE TUBE*** ***WHITE TUBE*** ***RED TUBE*** ***BLACK TUBE*** ***YELLOW TUBE*** ***VIOLET TUBE*** ***ROSE TUBE*** ***AQUA TUBE***

BLUE TUBE ***ORANGE TUBE***

3 Cable Entries
144 Proposed Fusion Splices
156 Total Fusion Splices

EXISTING SPLICE ENCLOSURE

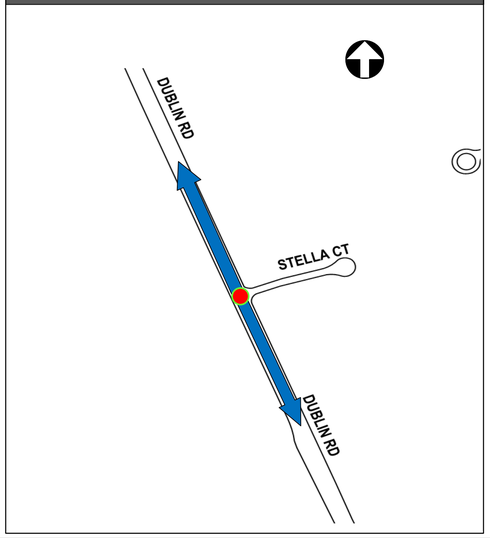
EXISTING 144 STRAND FOC

TO:
EXISTING CONNECTION TO
INT# 4232: DUBLIN RD. AT I-670
EB RAMPS

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- *LH/ZX* (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 288 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



NOTES.

DISCONNECT EXISTING LC FIBER PATCH CABLES BETWEEN EXISTING PATCH PANEL AND NETWORK SWITCH. REPLACE CONNECTION WITH PATCH CABLES AS SHOWN IN COLOR ON PLAN ABOVE.

1 **REVISION 1.0**
11-02-2018

INTERSECTION 4132

REFER TO SHEET 149 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 614 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100012
PID NUMBER: 99733

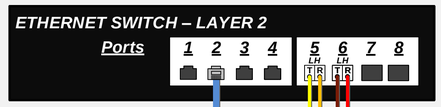
INT# 4132: DUBLIN RD. AT STELLA CT.
COMMUNICATIONS DIAGRAM

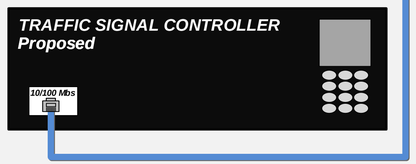
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

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915

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TRAFFIC SIGNAL CABINET ASSEMBLY

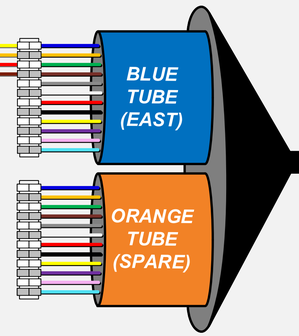


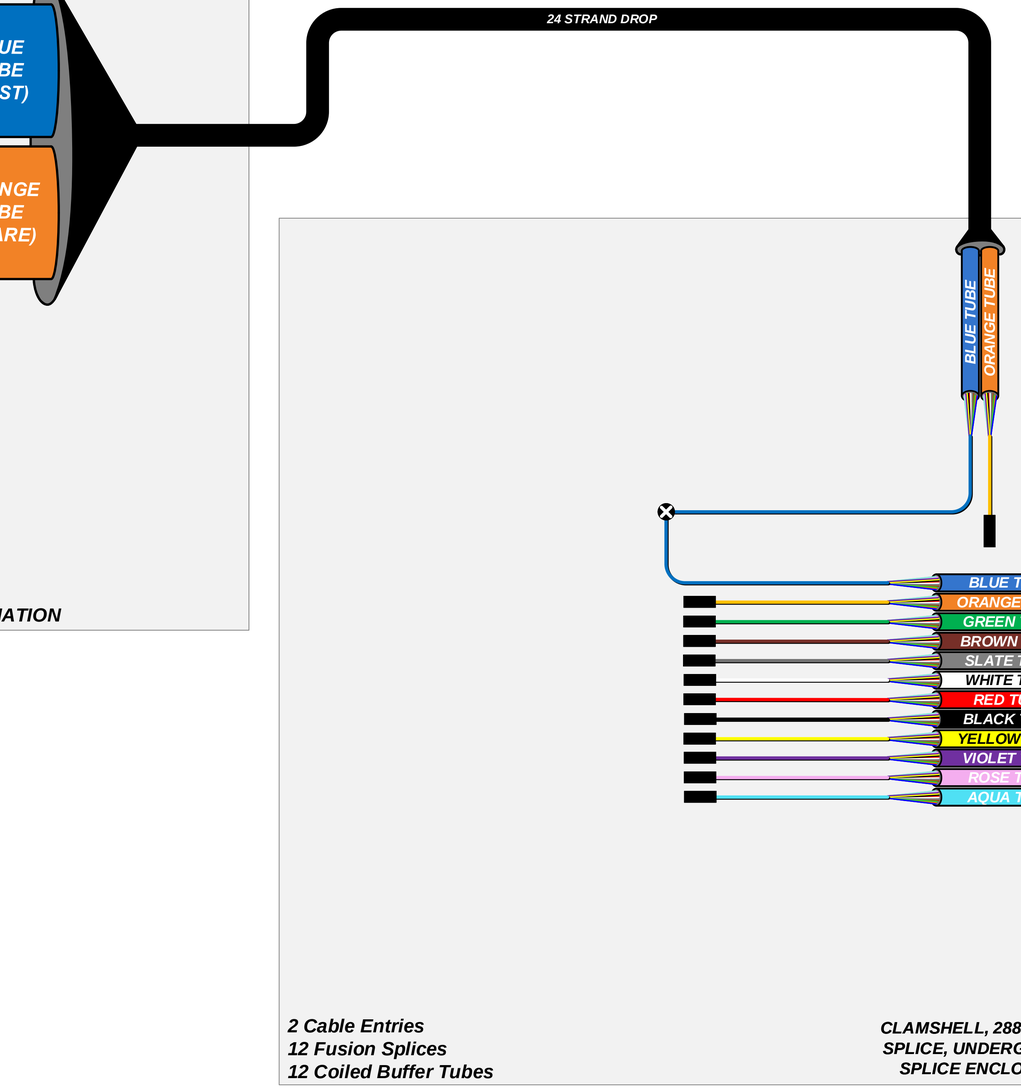


ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 4252: BOW FALLS BLVD. / LEPPERT RD. AT HAYDEN RUN RD.
SEE SHEET 673

PORT 6: INT# 4259: HAYDEN RUN BLVD./SPRING RIVER AVE. AT HAYDEN RUN RD.
SEE SHEET 672





TO:
INT# 4259: HAYDEN RUN BLVD./SPRING RIVER AVE. AT HAYDEN RUN RD.
SEE SHEET 672

2 Cable Entries
12 Fusion Splices
12 Coiled Buffer Tubes

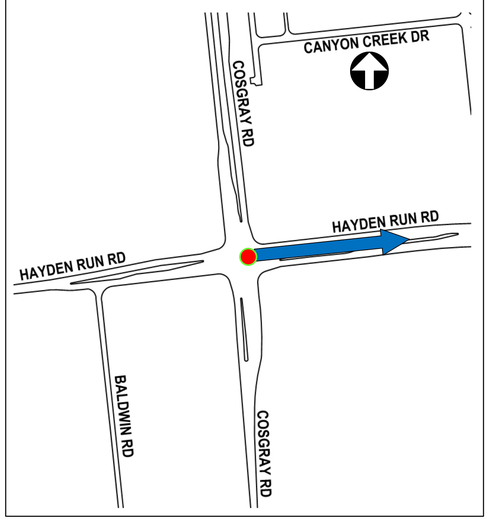
CLAMSHELL, 288 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE

PATCH PANEL ENCLOSURE – 24 TERMINATION

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- *LH/ZX* GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 288 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION SIG4835
REFER TO SHEET 158 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 613 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100012
PID NUMBER: 99733

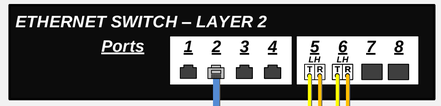
INT# SIG4835: COSGRAY RD. AT HAYDEN RUN RD.
COMMUNICATIONS DIAGRAM

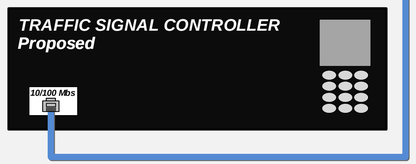
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

671
915

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TRAFFIC SIGNAL CABINET ASSEMBLY

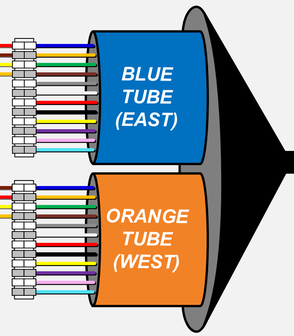


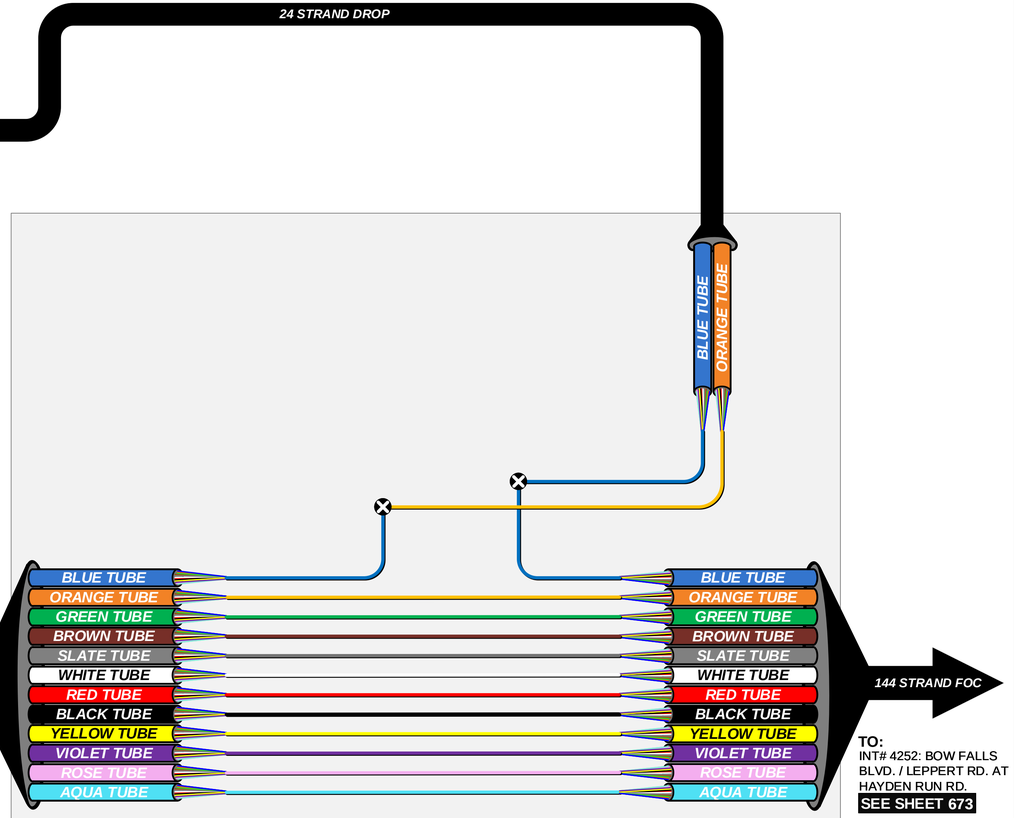


ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# SIG4780: AVERY RD. AT HAYDEN RUN RD.
SEE SHEET 674

PORT 6: INT# SIG4835: COSGRAY RD. AT HAYDEN RUN RD.
SEE SHEET 671





TO:
INT# SIG4835: COSGRAY RD. AT HAYDEN RUN RD.
SEE SHEET 671

TO:
INT# 4252: BOW FALLS BLVD. / LEPPERT RD. AT HAYDEN RUN RD.
SEE SHEET 673

PATCH PANEL ENCLOSURE – 24 TERMINATION

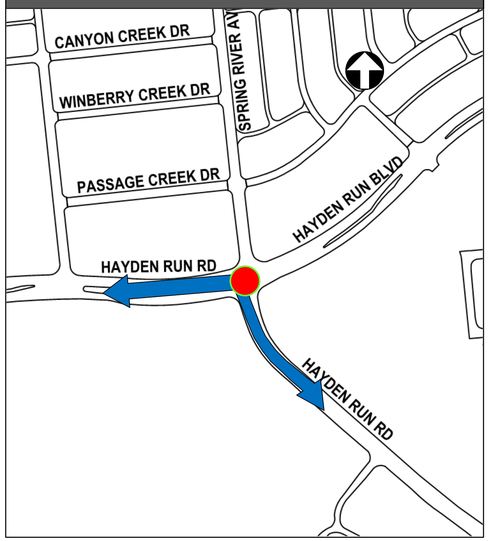
3 Cable Entries
24 Fusion Splices
11 Buffer Tubes Passed Through Unspliced

CLAMSHELL, 288 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- LH/ZX (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 288 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 4259

REFER TO SHEET 159 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 613 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100012
PID NUMBER: 99733

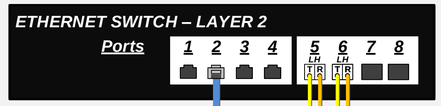
INT# 4259: HAYDEN RUN BLVD./SPRING RIVER AVE. AT HAYDEN RUN RD.
COMMUNICATIONS DIAGRAM

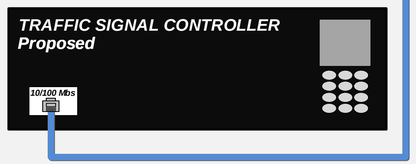
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

672
915

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TRAFFIC SIGNAL CABINET ASSEMBLY

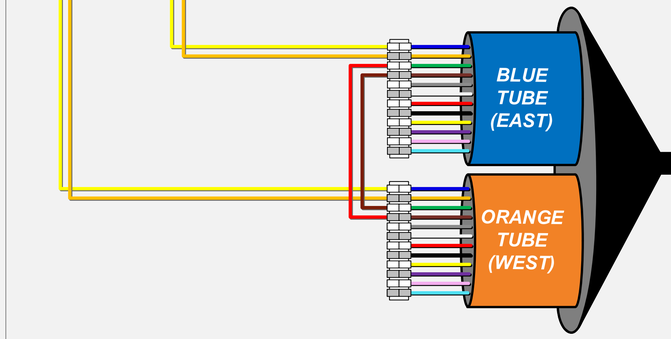


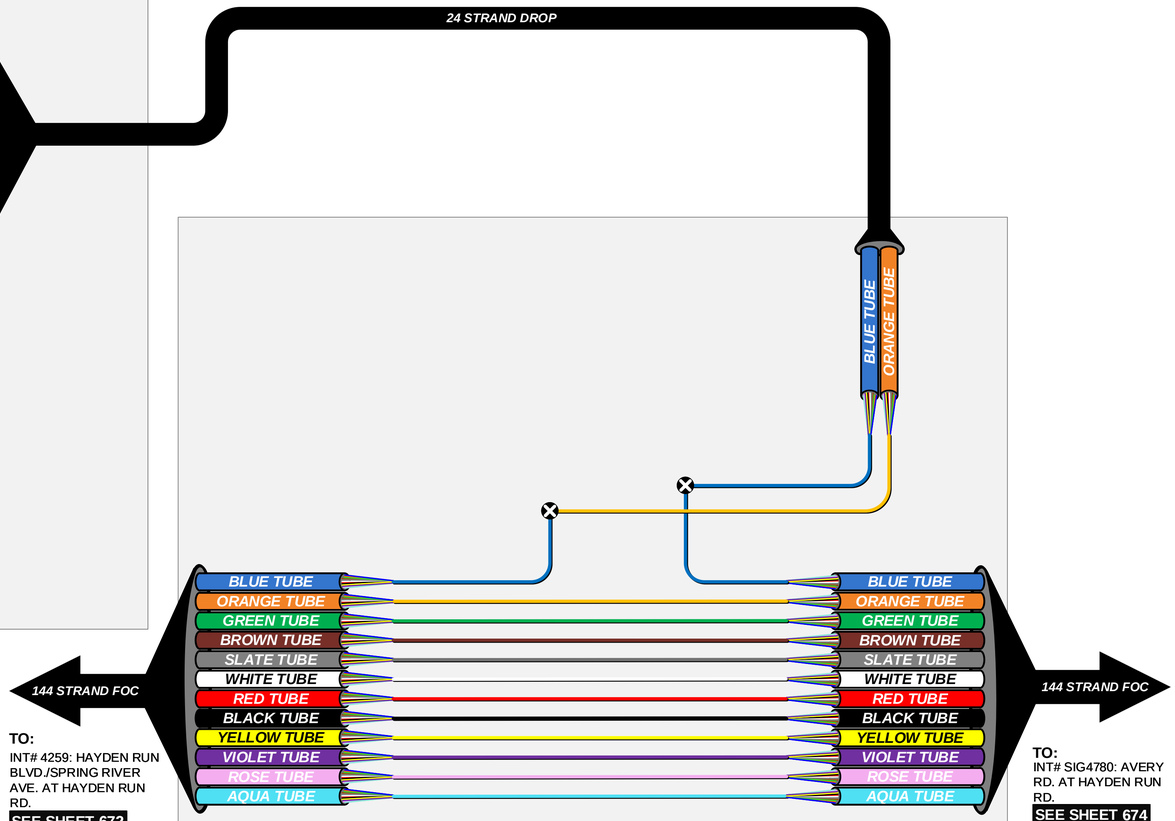


ETHERNET SWITCH PORT DESTINATION

PORT 5: EXISTING COMMUNICATION NODE# 270014.8: I-270 AT HAYDEN RUN RD.
SEE SHEET 886

PORT 6: INT# SIG4835: COSGRAY RD. AT HAYDEN RUN RD.
SEE SHEET 671





TO:
INT# 4259: HAYDEN RUN BLVD./SPRING RIVER AVE. AT HAYDEN RUN RD.
SEE SHEET 672

TO:
INT# SIG4780: AVERY RD. AT HAYDEN RUN RD.
SEE SHEET 674

PATCH PANEL ENCLOSURE – 24 TERMINATION

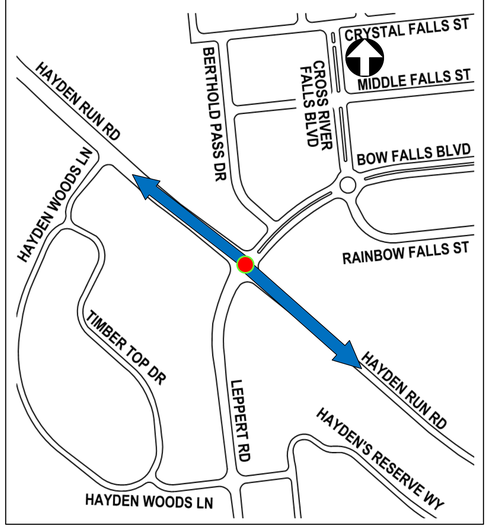
3 Cable Entries
24 Fusion Splices
11 Buffer Tubes Passed Through Unspliced

CLAMSHELL, 288 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- LH/ZX (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 288 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 4252

REFER TO SHEET 160 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 613 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100012
PID NUMBER: 99733

INT# 4252: BOW FALLS BLVD. / LEPPERT RD. AT HAYDEN RUN RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

673
915

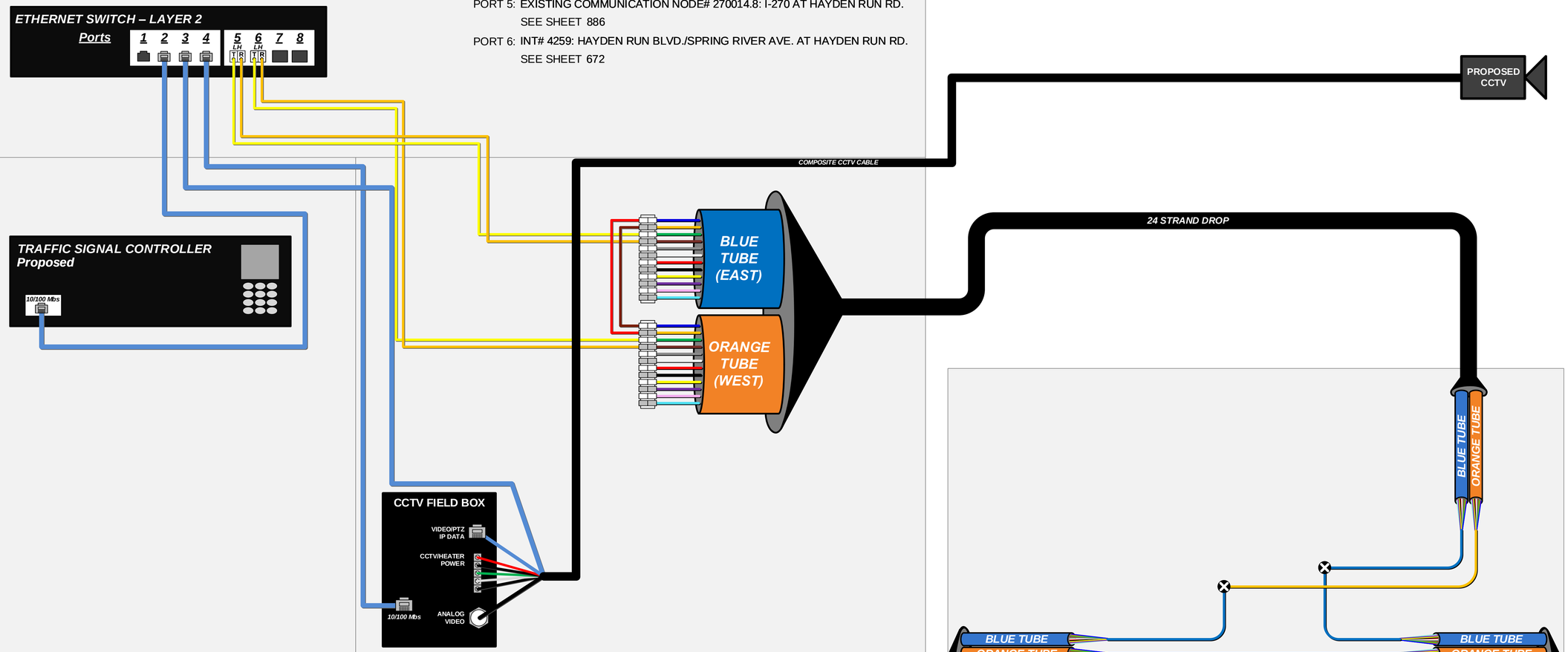
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TRAFFIC SIGNAL CABINET ASSEMBLY

ETHERNET SWITCH PORT DESTINATION

PORT 5: EXISTING COMMUNICATION NODE# 270014.8: I-270 AT HAYDEN RUN RD.
SEE SHEET 886

PORT 6: INT# 4259: HAYDEN RUN BLVD./SPRING RIVER AVE. AT HAYDEN RUN RD.
SEE SHEET 672



PATCH PANEL ENCLOSURE – 24 TERMINATION

TO:
INT# 4252: BOW FALLS BLVD. / LEPPERT RD. AT HAYDEN RUN RD.
SEE SHEET 673

TO:
EXISTING COMMUNICATION NODE# 270014.8: I-270 AT HAYDEN RUN RD.
SEE SHEET 887

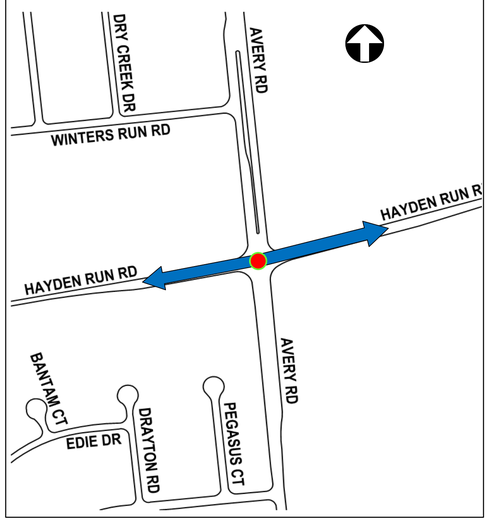
3 Cable Entries
24 Fusion Splices
11 Buffer Tubes Passed Through Unspliced

CLAMSHELL, 288 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- LH/ZX T R – GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 288 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION SIG4780
REFER TO SHEET 165 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 613 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100012
PID NUMBER: 99733

INT# SIG4780: AVERY RD. AT HAYDEN RUN RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

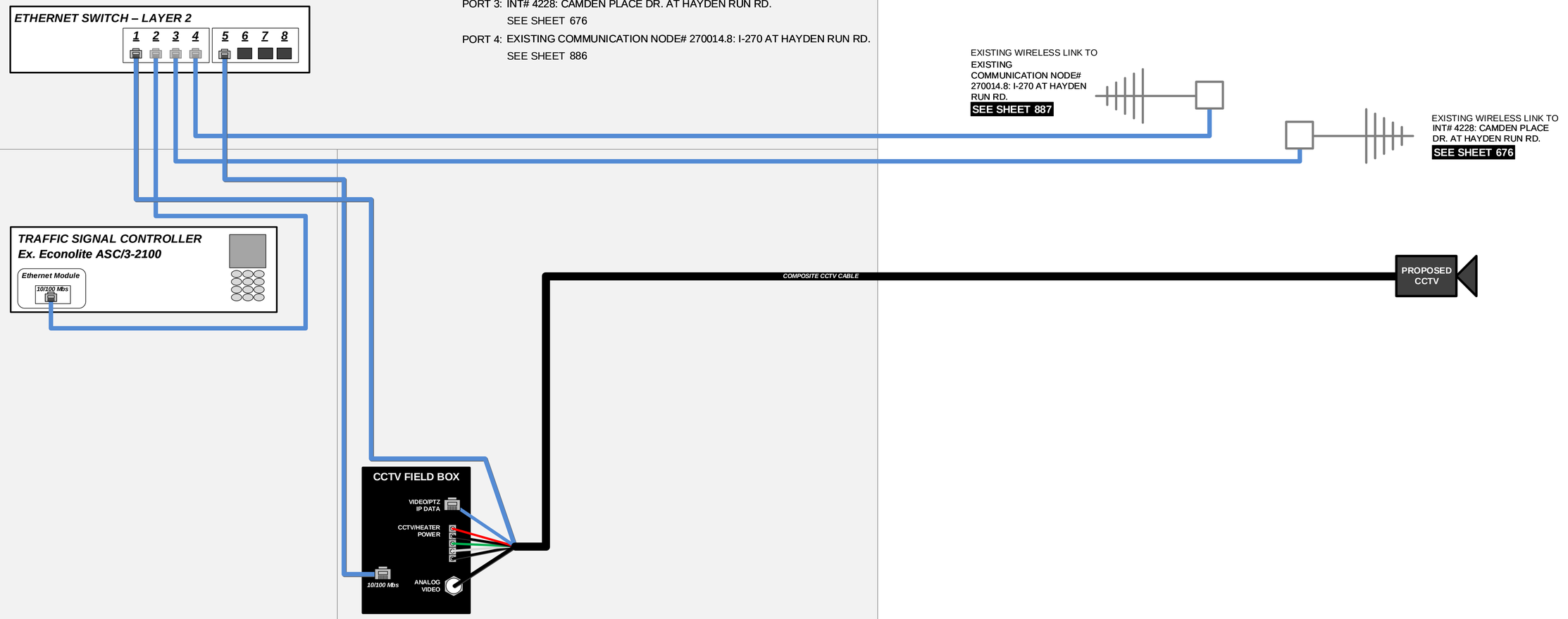
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TRAFFIC SIGNAL CABINET ASSEMBLY

ETHERNET SWITCH PORT DESTINATION

PORT 3: INT# 4228: CAMDEN PLACE DR. AT HAYDEN RUN RD.
SEE SHEET 676

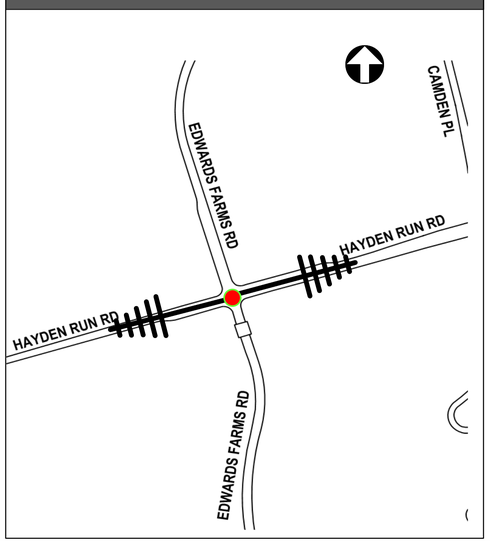
PORT 4: EXISTING COMMUNICATION NODE# 270014.8: I-270 AT HAYDEN RUN RD.
SEE SHEET 886



LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- *LH/ZX* GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 288 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 4258

REFER TO SHEET 174 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 613 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100012
PID NUMBER: 99733

INT# 4258: EDWARDS FARMS RD. AT HAYDEN RUN RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

675
915

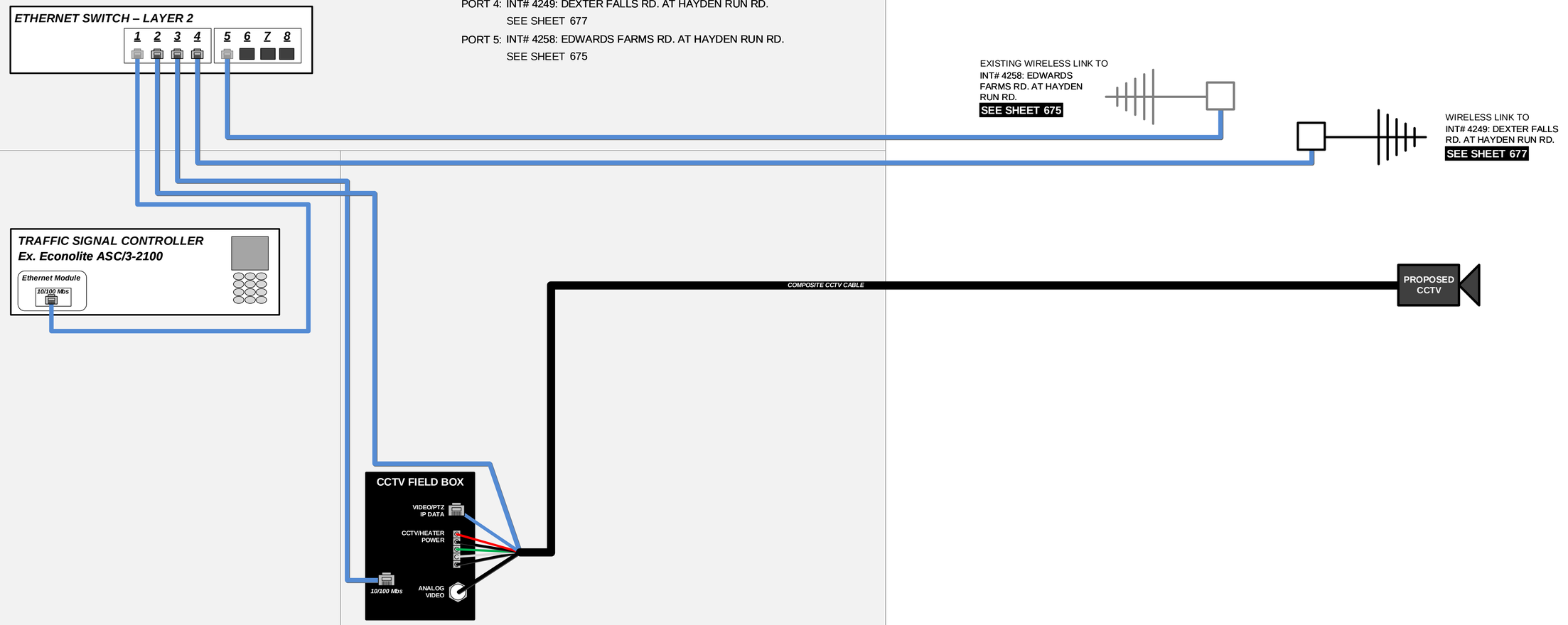
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TRAFFIC SIGNAL CABINET ASSEMBLY

ETHERNET SWITCH PORT DESTINATION

PORT 4: INT# 4249: DEXTER FALLS RD. AT HAYDEN RUN RD.
SEE SHEET 677

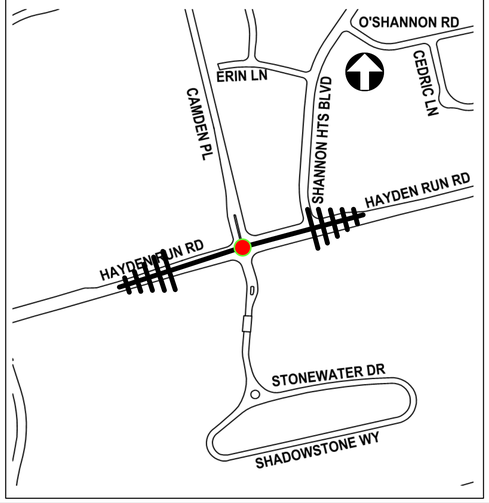
PORT 5: INT# 4258: EDWARDS FARMS RD. AT HAYDEN RUN RD.
SEE SHEET 675



LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- *LH/ZX* GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 288 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 4228

REFER TO SHEET 175 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 613 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100012
PID NUMBER: 99733

INT# 4228: CAMDEN PLACE DR. AT HAYDEN RUN RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

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TRAFFIC SIGNAL CABINET ASSEMBLY

ETHERNET SWITCH PORT DESTINATION

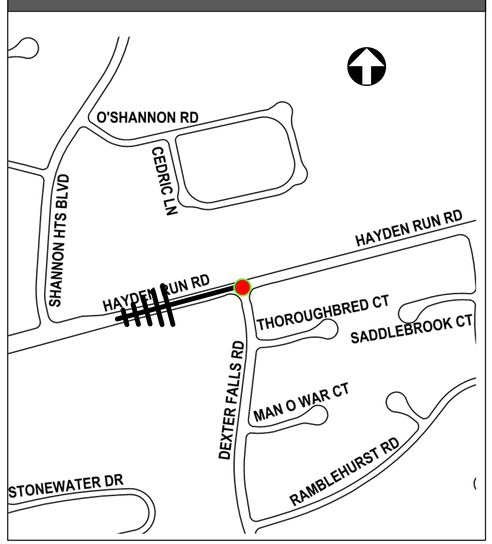
PORT 1: INT# 4228: CAMDEN PLACE DR. AT HAYDEN RUN RD.
SEE SHEET 676



LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- *LH/ZX* GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 288 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 4249

REFER TO SHEET 176 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 613 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100012
PID NUMBER: 99733

INT# 4249: DEXTER FALLS RD. AT HAYDEN RUN RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

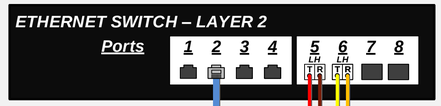
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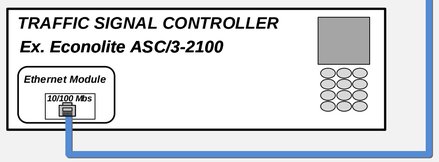
TRAFFIC SIGNAL CABINET ASSEMBLY

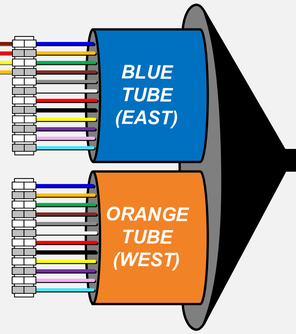
ETHERNET SWITCH PORT DESTINATION

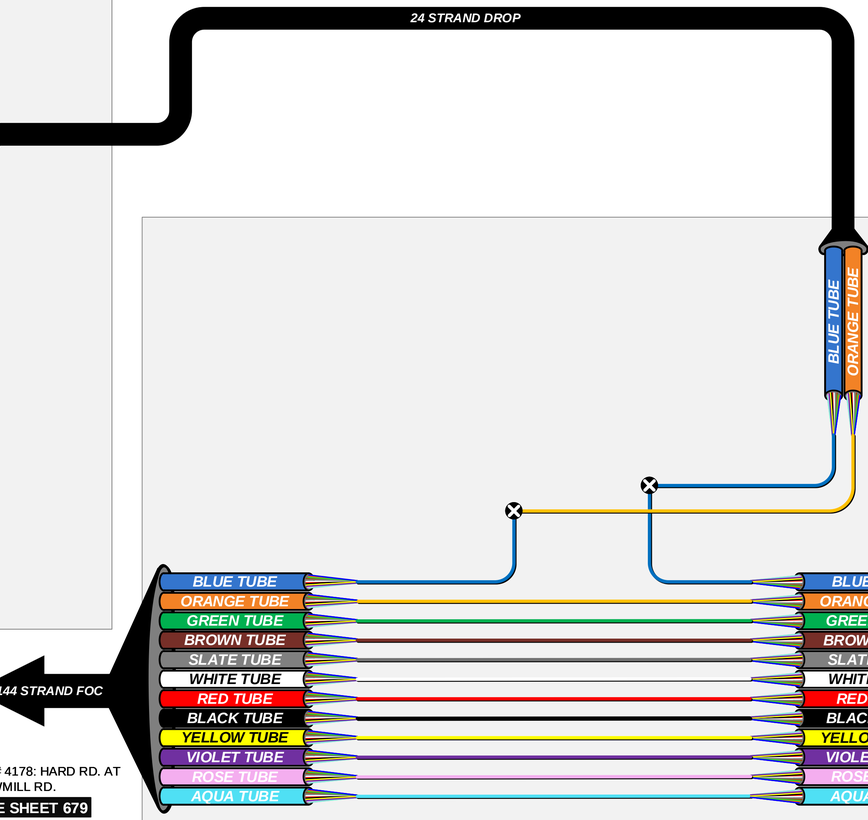
PORT 5: INT# 4243: FOXBORO LN. AT HARD RD.
SEE SHEET 681

PORT 6: INT# 4148: HARD RD. AT SMOKY ROW RD.
SEE SHEET 682









TO:
INT# 4178: HARD RD. AT SAWMILL RD.
SEE SHEET 679

TO:
INT# 4243: FOXBORO LN. AT HARD RD.
SEE SHEET 681

3 Cable Entries
24 Fusion Splices
11 Buffer Tubes Passed Through Unspliced

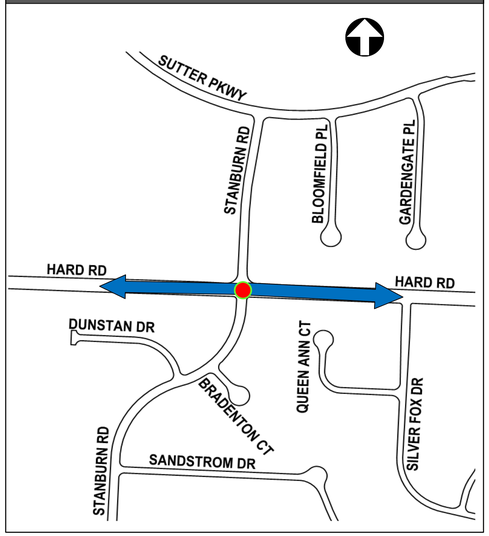
CLAMSHELL, 288 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE

PATCH PANEL ENCLOSURE – 24 TERMINATION

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 288 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 4227

REFER TO SHEET 349 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 615 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100012
PID NUMBER: 99733

INT# 4227: HARD RD. AT STANBURN RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

678
915

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TRAFFIC SIGNAL CABINET ASSEMBLY

EXISTING ETHERNET SWITCH – LAYER 2

Ports 1 2 3 4 5 6 7 8 (5 LH T/R, 6 LH T/R)

TRAFFIC SIGNAL CONTROLLER
Ex. Econolite ASC/3-2100

Ethernet Module — *10/100 Mbs*

CCTV FIELD BOX

- VIDEO/PTZ IP DATA — *10/100 Mbs*
- CCTV/HEATER POWER
- ANALOG VIDEO

ETHERNET SWITCH PORT DESTINATION

PORT 5: EXISTING CONNECTION TO INT# 4180: EMERALD PKWY & SALTERGATE DR. AT SAWMILL RD.

PORT 6: EXISTING CONNECTION TO INT# 4176:BILLINGSLEY RD. AT SAWMILL RD.

COMPOSITE CCTV CABLE

PROPOSED CCTV

EXISTING PATCH PANEL ENCLOSURE - 24 TERMINATION

- ***BLUE TUBE (NORTH)***
- ***ORANGE TUBE (SOUTH)***
- ***BLUE TUBE (EAST)***
- ***ORANGE TUBE (SPARE)***

PATCH PANEL ENCLOSURE - 24 TERMINATION

24 STRAND DROP

EXISTING 24 STRAND DROP

EXISTING 144 STRAND FOC

TO:
EXISTING CONNECTION TO INT# 4179: SAWMILL RD. AT SUMMER RD.

BLUE TUBE, ORANGE TUBE, GREEN TUBE, BROWN TUBE, SLATE TUBE, WHITE TUBE, RED TUBE, BLACK TUBE, YELLOW TUBE, VIOLET TUBE, ROSE TUBE, AQUA TUBE

BLUE TUBE, ORANGE TUBE

BLUE TUBE, ORANGE TUBE

144 STRAND FOC

TO:
INT# 4227: HARD RD. AT STANBURN RD.
SEE SHEET 678

5 Cable Entries
204 Proposed Fusion Splices
228 Total Fusion Splices
2 Coiled Buffer Tubes

EXISTING SPLICE ENCLOSURE

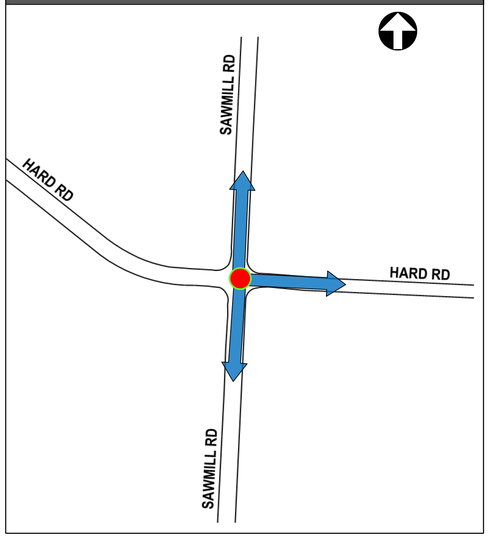
EXISTING 144 STRAND FOC

TO:
EXISTING CONNECTION TO INT# 4177: BRIGHT RD. & SAWBURY BLVD. AT SAWMILL RD.

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- *LH/ZX* (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 288 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 4178

REFER TO SHEET 347 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 615 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100012
PID NUMBER: 99733

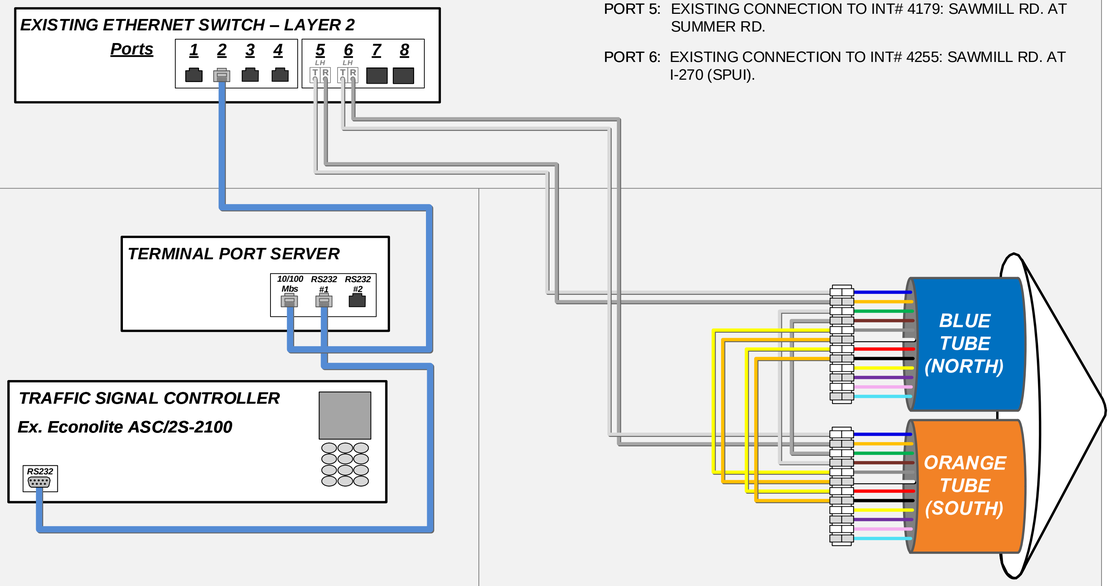
INT# 4178: HARD RD. AT SAWMILL RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

679
915

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TRAFFIC SIGNAL CABINET ASSEMBLY



ETHERNET SWITCH PORT DESTINATION

PORT 5: EXISTING CONNECTION TO INT# 4179: SAWMILL RD. AT SUMMER RD.

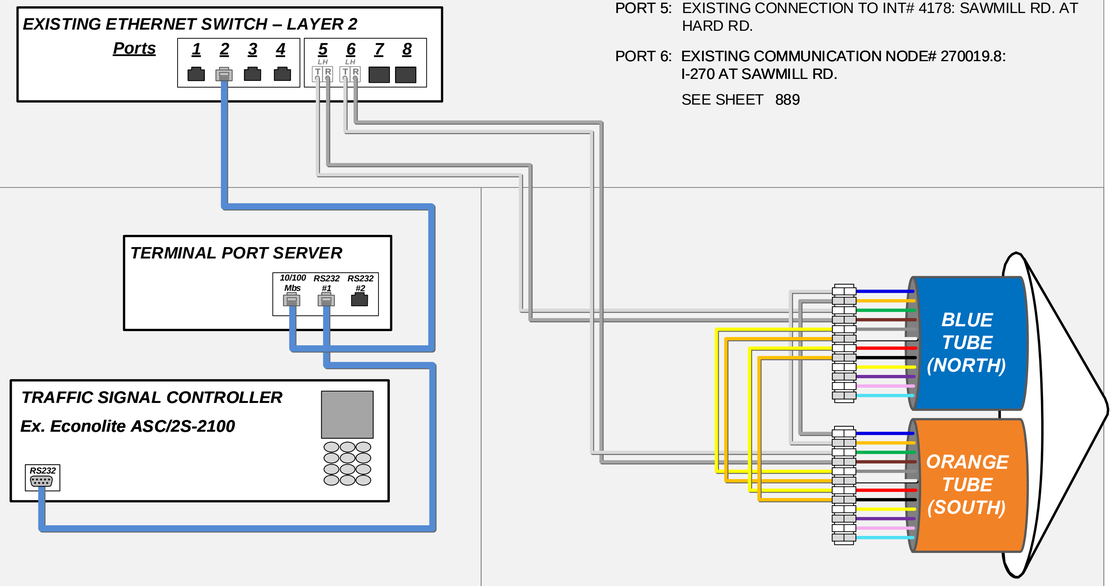
PORT 6: EXISTING CONNECTION TO INT# 4255: SAWMILL RD. AT I-270 (SPUI).

INTERSECTION 4177

BRIGHT RD./ SAWBURY BLVD. AT SAWMILL RD.
REFER TO SHEET 615 FOR COMM OVERVIEW DETAILS

EXISTING PATCH PANEL ENCLOSURE – 24 TERMINATION

TRAFFIC SIGNAL CABINET ASSEMBLY



ETHERNET SWITCH PORT DESTINATION

PORT 5: EXISTING CONNECTION TO INT# 4178: SAWMILL RD. AT HARD RD.

PORT 6: EXISTING COMMUNICATION NODE# 270019.8: I-270 AT SAWMILL RD.

SEE SHEET 889

INTERSECTION 4176

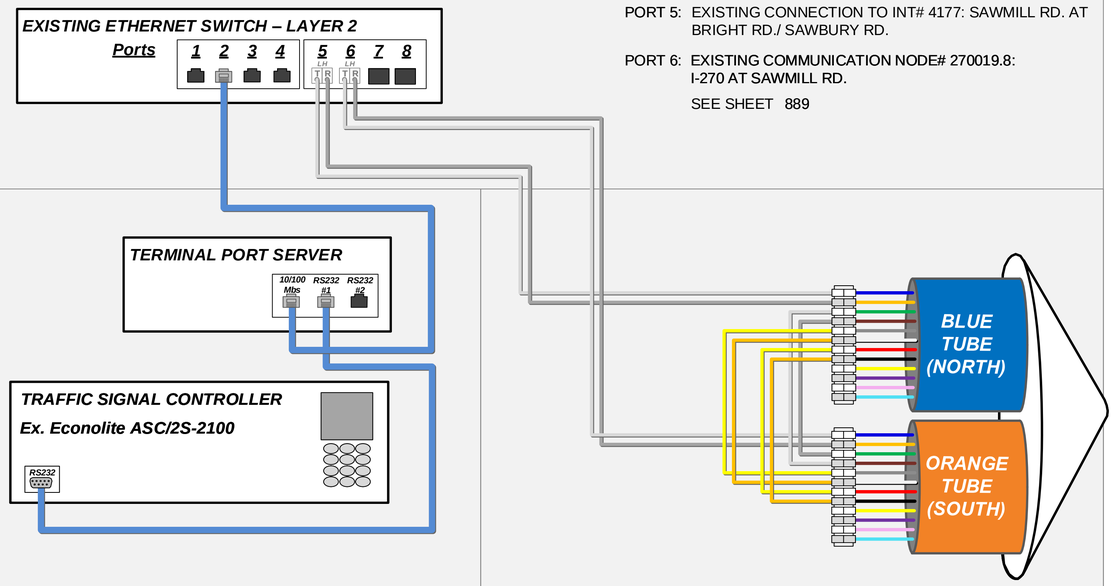
SAWMILL RD. AT BILLINGSLEY RD.
REFER TO SHEET 615 FOR COMM OVERVIEW DETAILS

EXISTING PATCH PANEL ENCLOSURE – 24 TERMINATION

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- *LH/ZX* (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

TRAFFIC SIGNAL CABINET ASSEMBLY



ETHERNET SWITCH PORT DESTINATION

PORT 5: EXISTING CONNECTION TO INT# 4177: SAWMILL RD. AT BRIGHT RD./ SAWBURY RD.

PORT 6: EXISTING COMMUNICATION NODE# 270019.8: I-270 AT SAWMILL RD.

SEE SHEET 889

INTERSECTION 4255

SAWMILL RD. AT I-270 (SPUI)
REFER TO SHEET 615 FOR COMM OVERVIEW DETAILS

EXISTING PATCH PANEL ENCLOSURE – 24 TERMINATION

CIP: 540007 - 100012
PID NUMBER: 99733

INTS 4177, 4176 AND 4255 PATCH PANELS
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

680
915

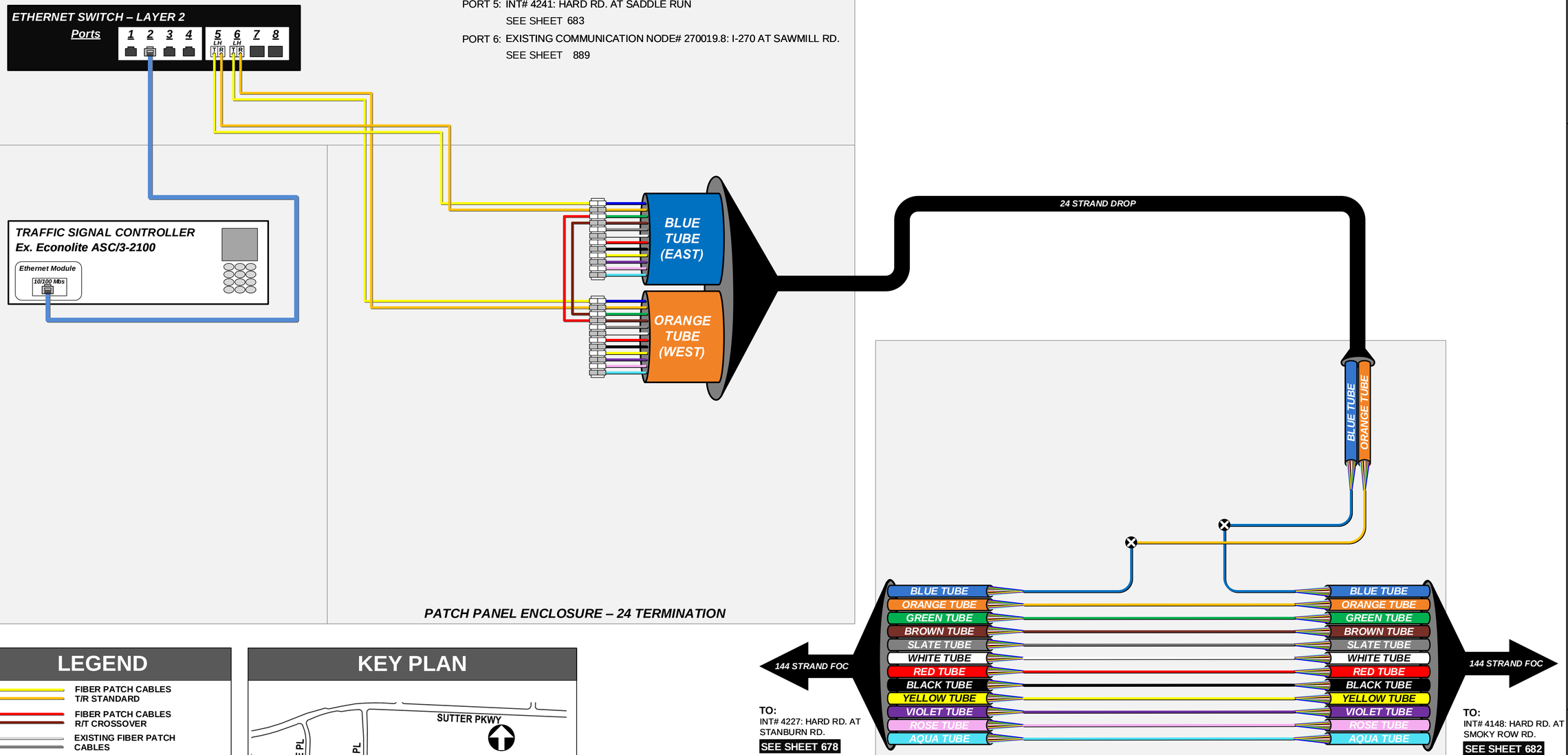
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TRAFFIC SIGNAL CABINET ASSEMBLY

ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 4241: HARD RD. AT SADDLE RUN
SEE SHEET 683

PORT 6: EXISTING COMMUNICATION NODE# 270019.8: I-270 AT SAWMILL RD.
SEE SHEET 889



PATCH PANEL ENCLOSURE – 24 TERMINATION

TO:
INT# 4227: HARD RD. AT STANBURN RD.
SEE SHEET 678

TO:
INT# 4148: HARD RD. AT SMOKY ROW RD.
SEE SHEET 682

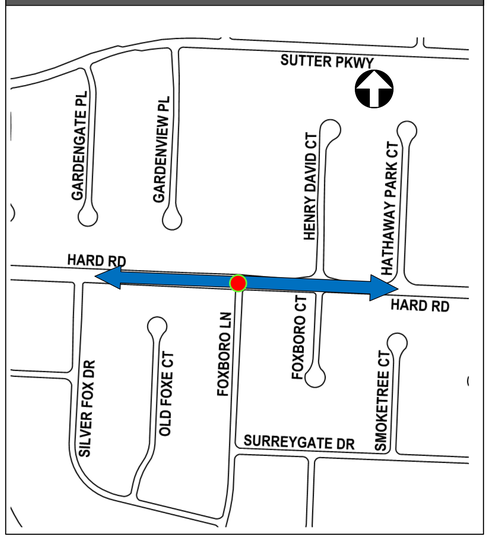
3 Cable Entries
24 Fusion Splices
11 Buffer Tubes Passed Through Unspliced

CLAMSHELL, 288 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- LH/ZX (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 4243
REFER TO SHEET 350 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 615 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100012
PID NUMBER: 99733

INT# 4243: FOXBORO LN. AT HARD RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

681
915

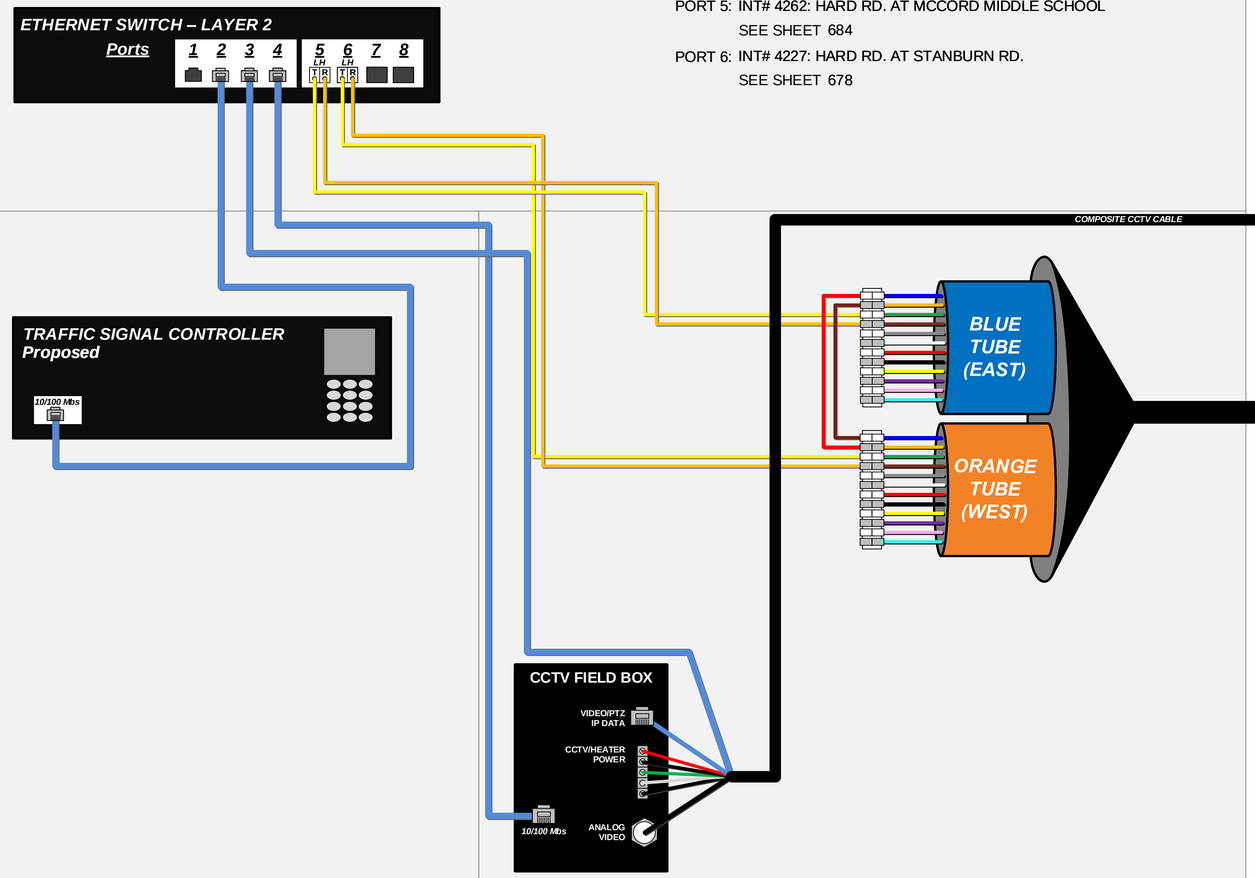
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TRAFFIC SIGNAL CABINET ASSEMBLY

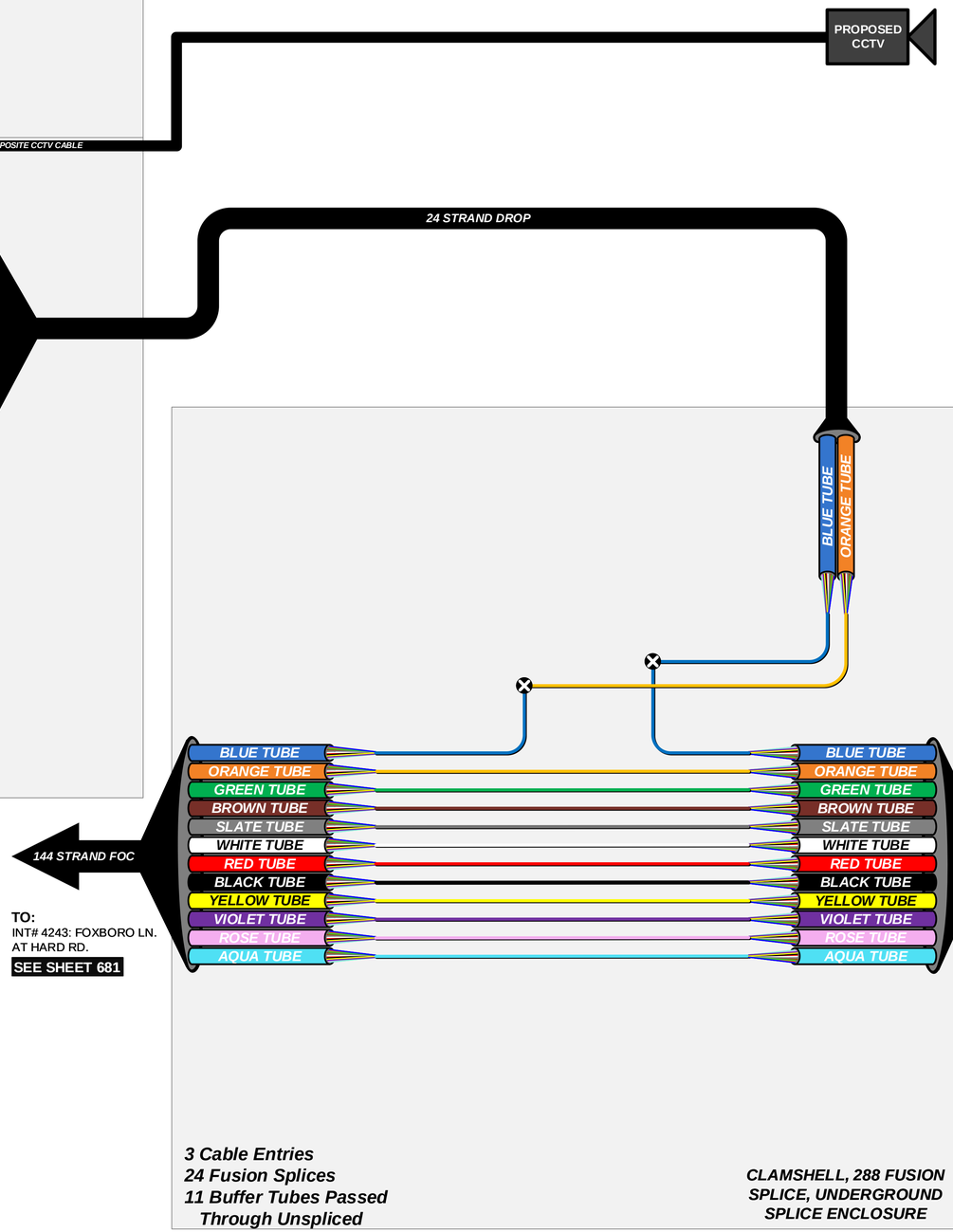
ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 4262: HARD RD. AT MCCORD MIDDLE SCHOOL
SEE SHEET 684

PORT 6: INT# 4227: HARD RD. AT STANBURN RD.
SEE SHEET 678



PATCH PANEL ENCLOSURE – 24 TERMINATION



TO:
INT# 4243: FOXBORO LN. AT HARD RD.
SEE SHEET 681

TO:
INT# 4241: HARD RD. AT SADDLE RUN
SEE SHEET 683

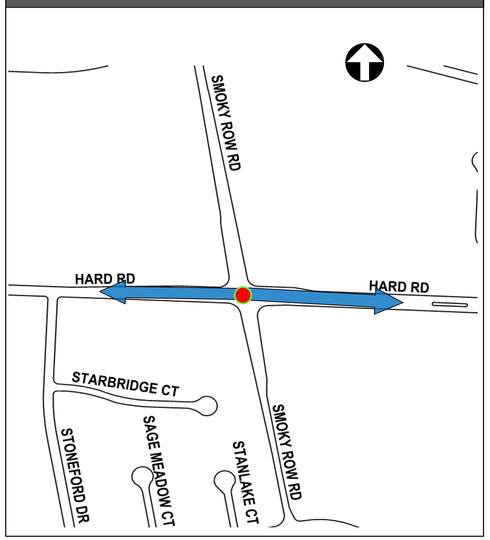
3 Cable Entries
24 Fusion Splices
11 Buffer Tubes Passed Through Unspliced

CLAMSHELL, 288 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 4148
REFER TO SHEET 353 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 615 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100012
PID NUMBER: 99733

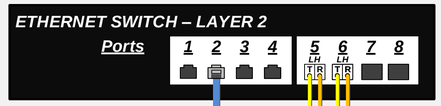
INT# 4148: HARD RD. AT SMOKY ROW RD.
COMMUNICATIONS DIAGRAM

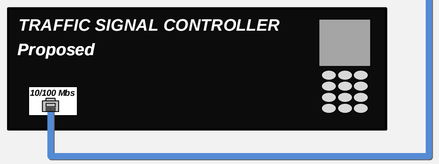
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

682
915

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TRAFFIC SIGNAL CABINET ASSEMBLY

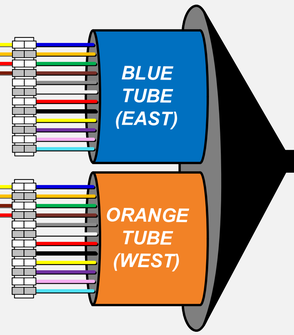


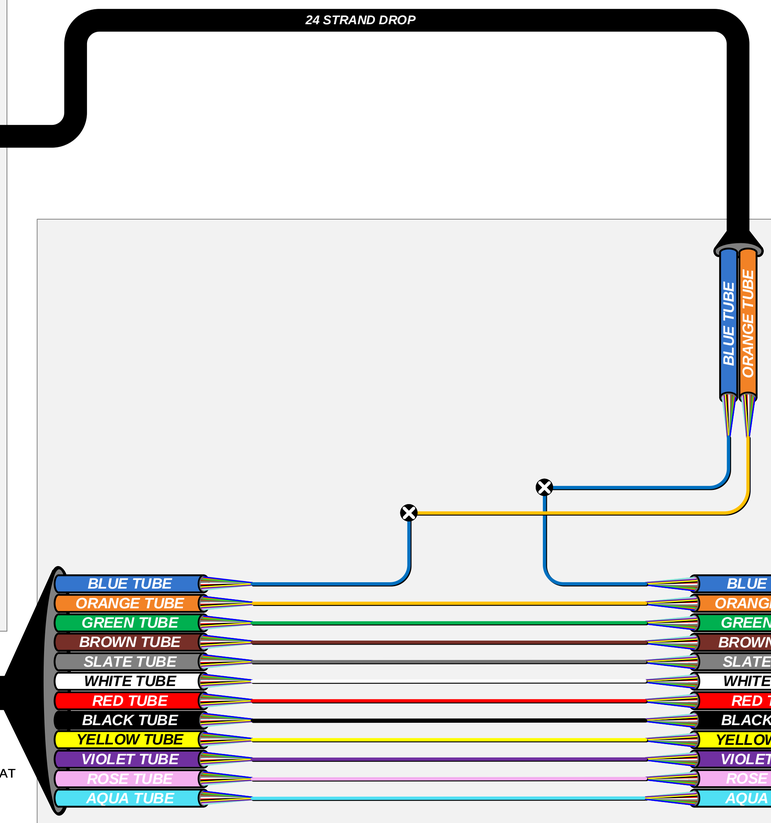


ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 4198: HARD RD. AT WORTHINGTON KILBOURNE HS
SEE SHEET 685

PORT 6: INT# 4243: FOXBORO LN. AT HARD RD.
SEE SHEET 681





TO:
INT# 4148: HARD RD. AT SMOKY ROW RD.
SEE SHEET 682

TO:
INT# 4262: HARD RD. AT MCCORD MIDDLE SCHOOL
SEE SHEET 684

PATCH PANEL ENCLOSURE – 24 TERMINATION

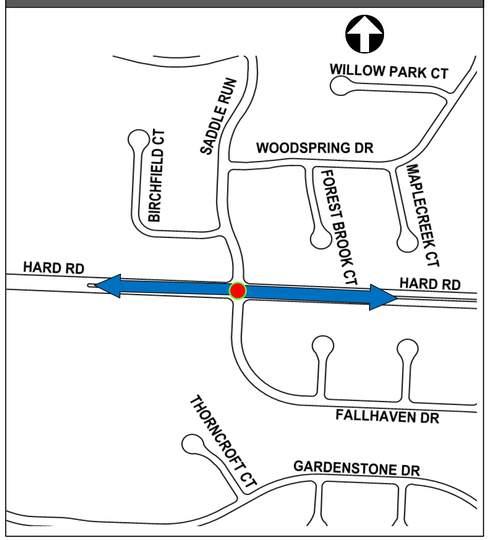
3 Cable Entries
24 Fusion Splices
11 Buffer Tubes Passed Through Unspliced

CLAMSHELL, 288 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- LH/ZX (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 4241

REFER TO SHEET 354 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 615 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100012
PID NUMBER: 99733

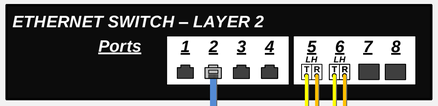
INT# 4241: HARD RD. AT SADDLE RUN
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

683
915

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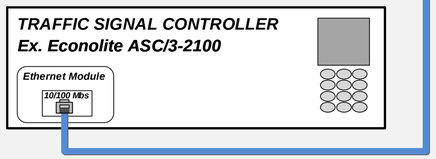
TRAFFIC SIGNAL CABINET ASSEMBLY

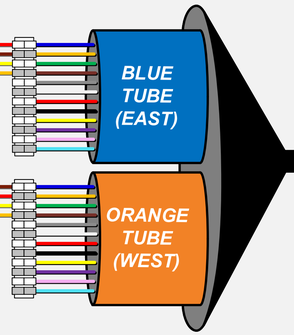


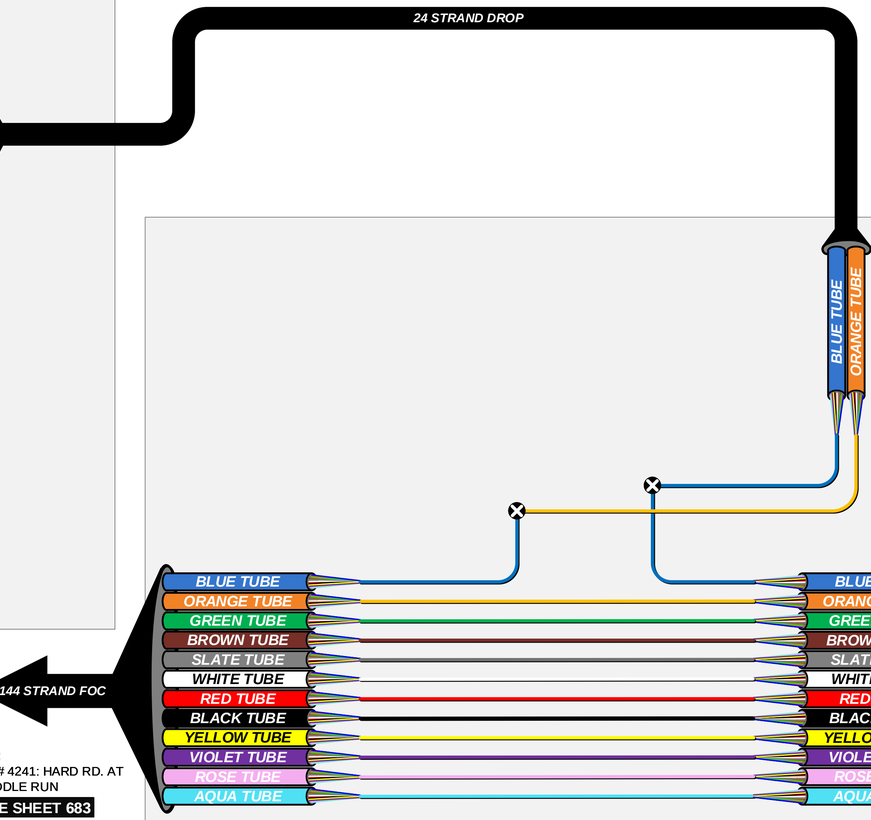
ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 4207: HARD RD. AT LINWORTH RD.
SEE SHEET 686

PORT 6: INT# 4148: HARD RD. AT SMOKY ROW RD.
SEE SHEET 682







TO:
INT# 4241: HARD RD. AT SADDLE RUN
SEE SHEET 683

TO:
INT# 4198: HARD RD. AT WORTHINGTON KILBOURNE HS
SEE SHEET 685

3 Cable Entries
24 Fusion Splices
11 Buffer Tubes Passed Through Unspliced

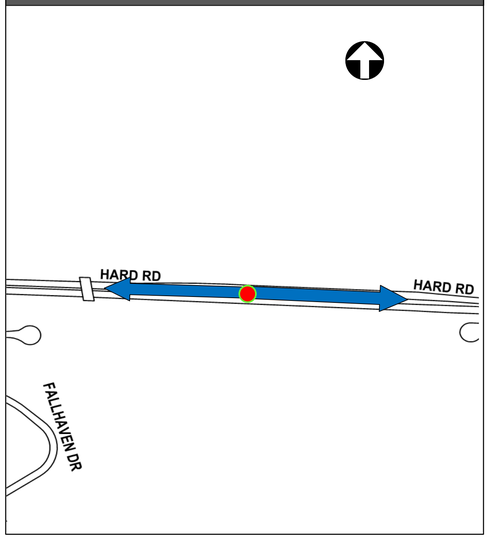
CLAMSHELL, 288 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE

PATCH PANEL ENCLOSURE – 24 TERMINATION

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- LH/ZX (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 4262
REFER TO SHEET 356 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 615 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100012
PID NUMBER: 99733

INT# 4262: HARD RD. AT MCCORD MIDDLE SCHOOL
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

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TRAFFIC SIGNAL CABINET ASSEMBLY

ETHERNET SWITCH – LAYER 2

Ports 1 2 3 4 5 6 7 8 (5 LH T R, 6 LH T R)

TRAFFIC SIGNAL CONTROLLER
Proposed
10/100 Mbs

ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 6801: OLENTANGY RIVER RD. AT SR-315
SEE SHEET 687

PORT 6: INT# 4241: HARD RD. AT SADDLE RUN
SEE SHEET 683

BLUE TUBE (EAST)

ORANGE TUBE (WEST)

24 STRAND DROP

BLUE TUBE
ORANGE TUBE

BLUE TUBE	BLUE TUBE
ORANGE TUBE	ORANGE TUBE
GREEN TUBE	GREEN TUBE
BROWN TUBE	BROWN TUBE
SLATE TUBE	SLATE TUBE
WHITE TUBE	WHITE TUBE
RED TUBE	RED TUBE
BLACK TUBE	BLACK TUBE
YELLOW TUBE	YELLOW TUBE
VIOLET TUBE	VIOLET TUBE
ROSE TUBE	ROSE TUBE
AQUA TUBE	AQUA TUBE

144 STRAND FOC

TO:
INT# 4262: HARD RD. AT MCCORD MIDDLE SCHOOL
SEE SHEET 684

144 STRAND FOC

TO:
INT# 4207: HARD RD. AT LINWORTH RD.
SEE SHEET 686

3 Cable Entries
24 Fusion Splices
11 Buffer Tubes Passed Through Unspliced

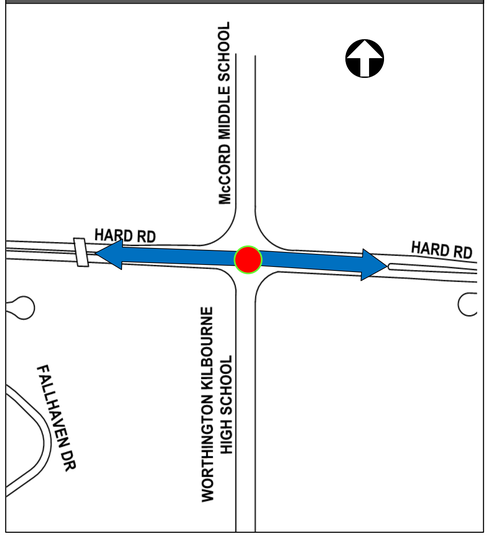
CLAMSHELL, 288 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE

PATCH PANEL ENCLOSURE – 24 TERMINATION

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 4198
REFER TO SHEET 356 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 615 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100012
PID NUMBER: 99733

INT# 4198: HARD RD. AT WORTHINGTON KILBOURNE HS
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

685
915

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TRAFFIC SIGNAL CABINET ASSEMBLY

ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 4262: HARD RD. AT MCCORD MIDDLE SCHOOL
SEE SHEET 684

PORT 6: INT# 4226: OLENTANGY RIVER RD. AT WILSON BRIDGE RD.
SEE SHEET 691

ETHERNET SWITCH – LAYER 2

Ports 1 2 3 4 5 6 7 8 (5, 6: LH, T R)

TRAFFIC SIGNAL CONTROLLER
Ex. Econolite ASC/3-2100

Ethernet Module — *10/100 Mbs*

CCTV FIELD BOX

VIDEO/PTZ IP DATA
CCTV/HEATER POWER
ANALOG VIDEO
10/100 Mbs

COMPOSITE CCTV CABLE

PROPOSED CCTV

24 STRAND DROP

24 STRAND DROP

BLUE TUBE (EAST)

ORANGE TUBE (WEST)

BLUE TUBE (SPARE)

ORANGE TUBE (SOUTH)

PATCH PANEL ENCLOSURES: (2) - 24 TERMINATION

BLUE TUBE / ***ORANGE TUBE***

BLUE TUBE / ***ORANGE TUBE***

144 STRAND FOC

TO:
INT# 4198: HARD RD. AT WORTHINGTON KILBOURNE HS
SEE SHEET 685

BLUE TUBE	BLUE TUBE
ORANGE TUBE	ORANGE TUBE
GREEN TUBE	GREEN TUBE
BROWN TUBE	BROWN TUBE
SLATE TUBE	SLATE TUBE
WHITE TUBE	WHITE TUBE
RED TUBE	RED TUBE
BLACK TUBE	BLACK TUBE
YELLOW TUBE	YELOW TUBE
VIOLET TUBE	VIOLET TUBE
ROSE TUBE	ROSE TUBE
AQUA TUBE	AQUA TUBE

144 STRAND FOC

TO:
INT# 6801: OLENTANGY RIVER RD. AT SR-315
SEE SHEET 687

BLUE TUBE ***ORANGE TUBE*** ***GREEN TUBE*** ***BROWN TUBE*** ***SLATE TUBE*** ***WHITE TUBE*** ***RED TUBE*** ***BLACK TUBE*** ***YELLOW TUBE*** ***VIOLET TUBE*** ***ROSE TUBE*** ***AQUA TUBE***

144 STRAND FOC

TO:
INT# 4219: LINWORTH RD. AT PARSIPHONY PL. / WILSON BRIDGE RD.
SEE SHEET 690

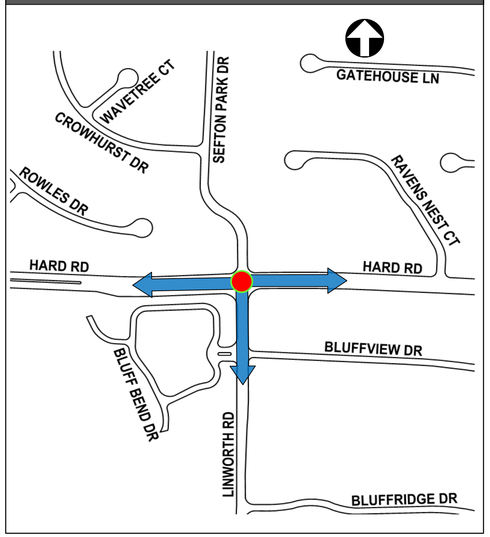
5 Cable Entries
228 Fusion Splices
2 Coiled Buffer Tubes

CLAMSHELL, 288 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- *LH/ZX* (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 4207

REFER TO SHEET 359 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 615 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100012
PID NUMBER: 99733

INT# 4207: HARD RD. AT LINWORTH RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

686
915

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TRAFFIC SIGNAL CABINET ASSEMBLY

ETHERNET SWITCH – LAYER 2

Ports: 1 2 3 4 | 5 LH T R | 6 LH T R | 7 | 8

TRAFFIC SIGNAL CONTROLLER
Ex. Econolite ASC/3-2100

Ethernet Module
10/100 Mbs

ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 6802: CLUBVIEW BLVD. AT OLENTANGY RIVER RD.
SEE SHEET 689

PORT 6: INT# 4198: HARD RD. AT WORTHINGTON KILBOURNE HS
SEE SHEET 685

BLUE TUBE (NORTH)
ORANGE TUBE (SOUTH)
BLUE TUBE (SPARE)
ORANGE TUBE (WEST)

PATCH PANEL ENCLOSURES: (2) - 24 TERMINATION

24 STRAND DROP
24 STRAND DROP

144 STRAND FOC

TO:
INT# 4204: OLENTANGY RIVER RD. / MASON PL. AT SR-315
SEE SHEET 688

BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE
RED TUBE
BLACK TUBE
YELLOW TUBE
VIOLET TUBE
ROSE TUBE
AQUA TUBE

BLUE TUBE
ORANGE TUBE

BLUE TUBE
ORANGE TUBE

144 STRAND FOC

TO:
INT# 4207: HARD RD. AT LINWORTH RD.
SEE SHEET 686

BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE
RED TUBE
BLACK TUBE
YELLOW TUBE
VIOLET TUBE
ROSE TUBE
AQUA TUBE

5 Cable Entries
228 Fusion Splices
2 Coiled Buffer Tubes

CLAMSHELL, 288 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE

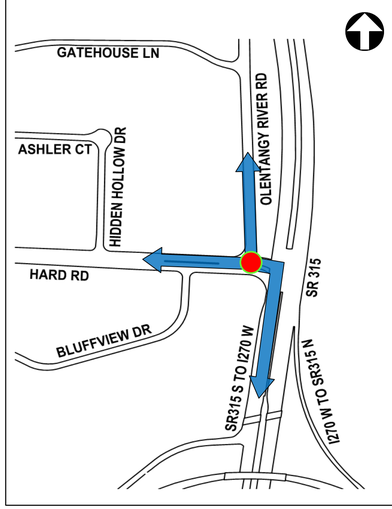
144 STRAND FOC

TO:
EXISTING COMMUNICATION NODE# 270022.7: I-270 AT SR-315
SEE SHEET 892

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- LH/ZX (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 6801
REFER TO SHEET 369 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 615 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100012
PID NUMBER: 99733

INT# 6801: OLENTANGY RIVER RD. AT SR-315
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

687
915

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TRAFFIC SIGNAL CABINET ASSEMBLY

ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 6802: CLUBVIEW BLVD. AT OLENTANGY RIVER RD.
SEE SHEET 689

PORT 6: EXISTING COMMUNICATION NODE# 270022.7: I-270 AT SR-315
SEE SHEET 890

ETHERNET SWITCH – LAYER 2

Ports 1 2 3 4 5 (LH T R) 6 (LH T R) 7 8

TRAFFIC SIGNAL CONTROLLER
Ex. Econolite ASC/3-2100

Ethernet Module
10/100 Mbs

CCTV FIELD BOX

VIDEO/PTZ IP DATA
CCTV/HEATER POWER
ANALOG VIDEO
10/100 Mbs

COMPOSITE CCTV CABLE

PROPOSED CCTV

24 STRAND DROP

BLUE TUBE (NORTH)

ORANGE TUBE (SOUTH)

144 STRAND FOC

TO:
INT# 6802: CLUBVIEW BLVD. AT OLENTANGY RIVER RD.
SEE SHEET 689

BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE
RED TUBE
BLACK TUBE
YELLOW TUBE
VIOLET TUBE
ROSE TUBE
AQUA TUBE

BLUE TUBE
ORANGE TUBE

3 Cable Entries
24 Fusion Splices
11 Buffer Tubes Passed Through Unspliced

CLAMSHELL, 288 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

144 STRAND FOC

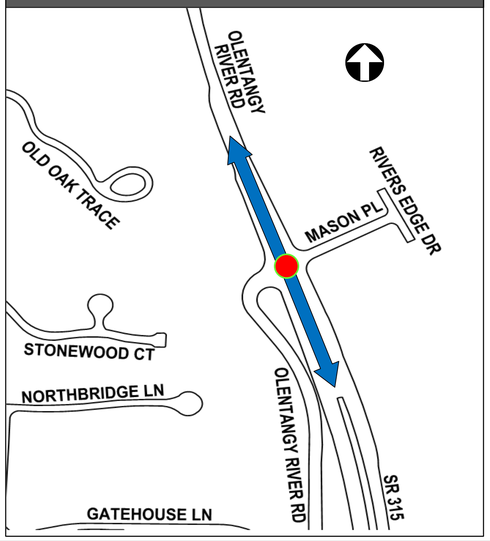
TO:
INT# 6801: OLENTANGY RIVER RD. AT SR-315
SEE SHEET 687

PATCH PANEL ENCLOSURE – 24 TERMINATION

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- *LH/ZX* (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 4204
REFER TO SHEET 371 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 615 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100012
PID NUMBER: 99733

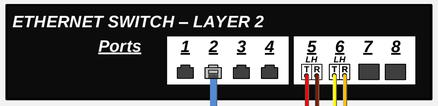
INT# 4204: OLENTANGY RIVER RD. / MASON PL. AT SR-315
COMMUNICATIONS DIAGRAM

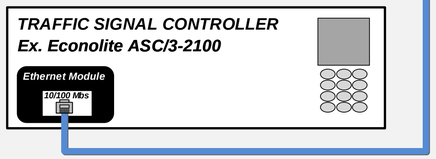
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

688
915

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TRAFFIC SIGNAL CABINET ASSEMBLY

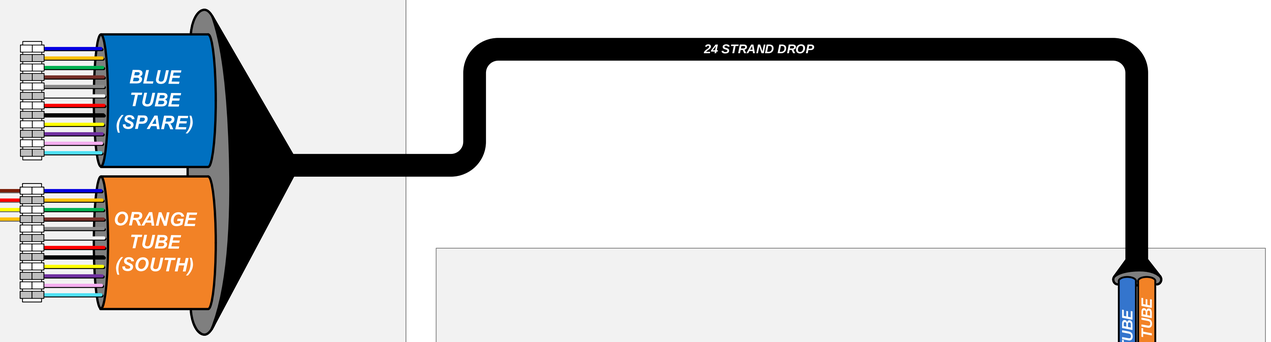




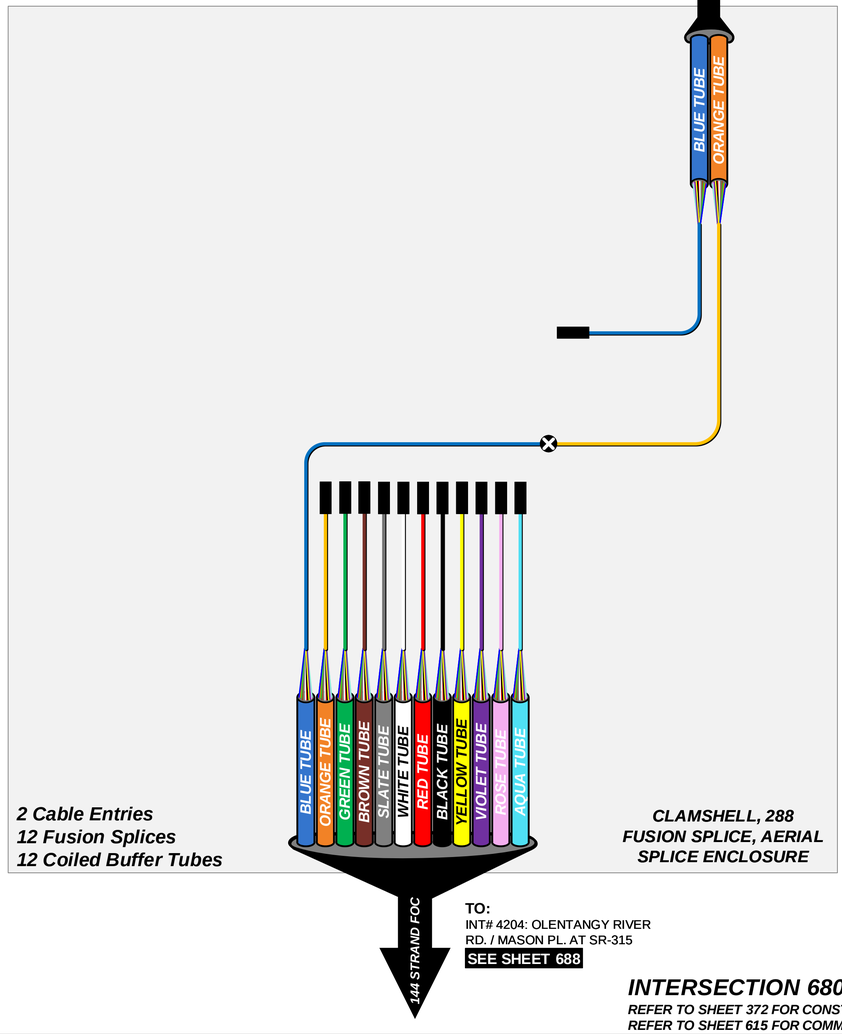
ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 4204: OLENTANGY RIVER RD. / MASON PL. AT SR-315
SEE SHEET 688

PORT 6: INT# 6801: OLENTANGY RIVER RD. AT SR-315
SEE SHEET 687



PATCH PANEL ENCLOSURE – 24 TERMINATION



2 Cable Entries
12 Fusion Splices
12 Coiled Buffer Tubes

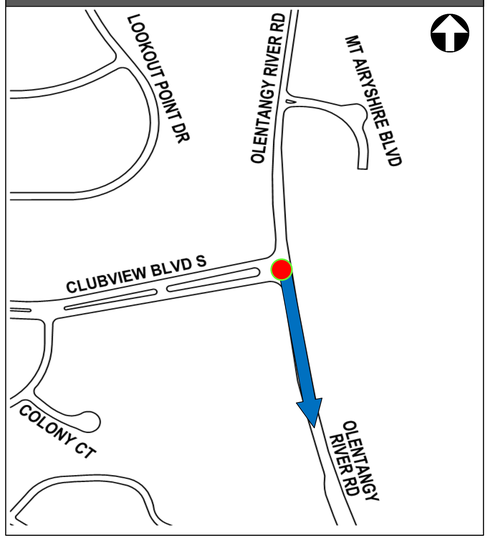
CLAMSHELL, 288 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

TO:
INT# 4204: OLENTANGY RIVER RD. / MASON PL. AT SR-315
SEE SHEET 688

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- LH/ZX (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 6802

REFER TO SHEET 372 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 615 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100012
PID NUMBER: 99733

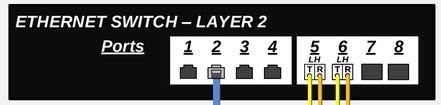
INT# 6802: CLUBVIEW BLVD. AT OLENTANGY RIVER RD.
COMMUNICATIONS DIAGRAM

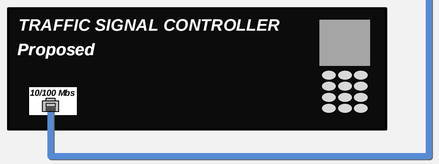
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

689
915

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TRAFFIC SIGNAL CABINET ASSEMBLY

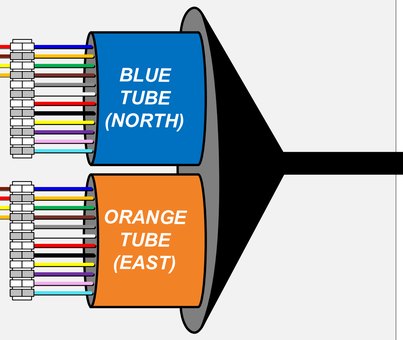


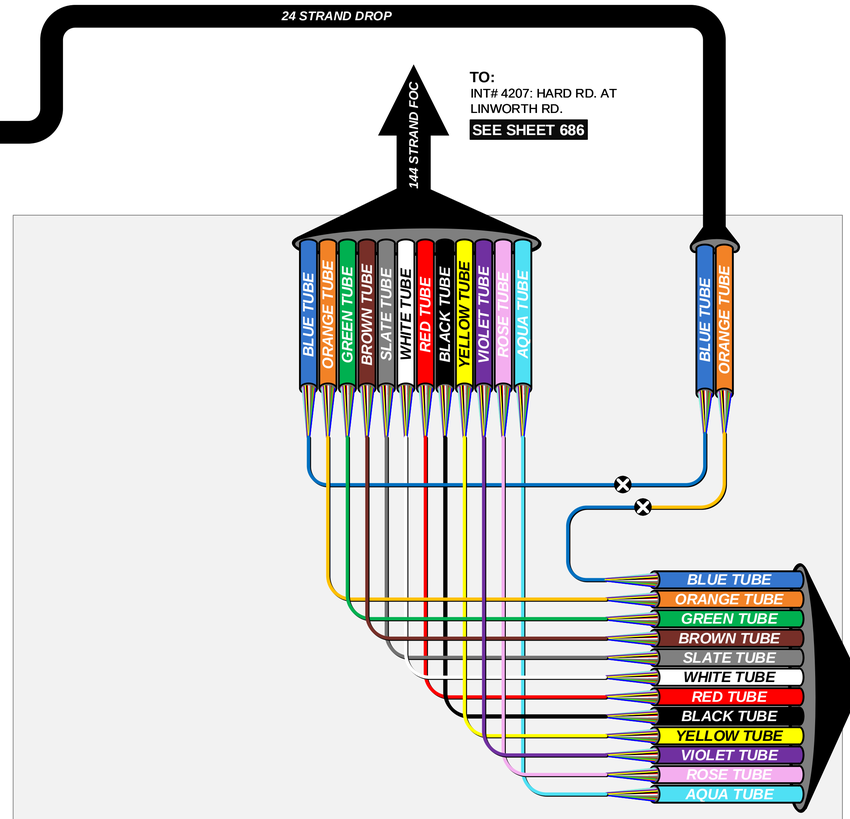


ETHERNET SWITCH PORT DESTINATION

PORT 5: EXISTING COMMUNICATION NODE# 270022.7: I-270 AT SR-315
SEE SHEET 890

PORT 6: INT# 4226: OLENTANGY RIVER RD. AT WILSON BRIDGE RD.
SEE SHEET 691





PATCH PANEL ENCLOSURE – 24 TERMINATION

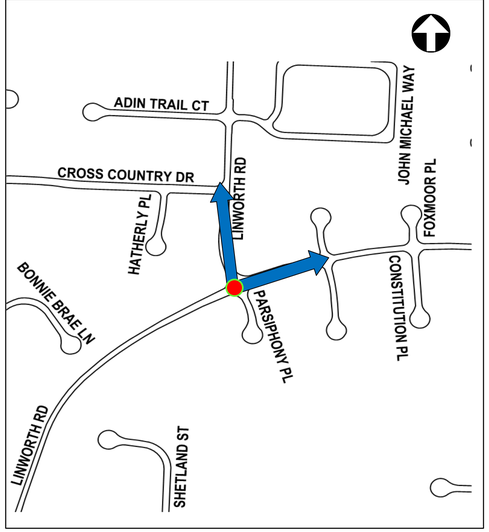
3 Cable Entries
24 Fusion Splices
11 Buffer Tubes Passed Through Unspliced

CLAMSHELL, 288 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- LH/ZX – GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 4219

REFER TO SHEET 363 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 615 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100012
PID NUMBER: 99733

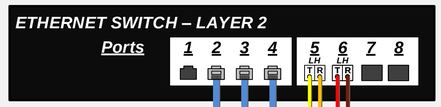
INT# 4219: LINWORTH RD. AT PARSIPHONY PL. / WILSON BRIDGE RD.
COMMUNICATIONS DIAGRAM

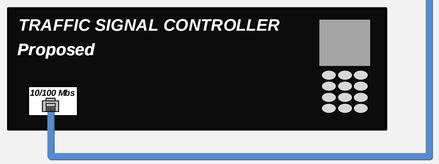
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

690
915

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TRAFFIC SIGNAL CABINET ASSEMBLY



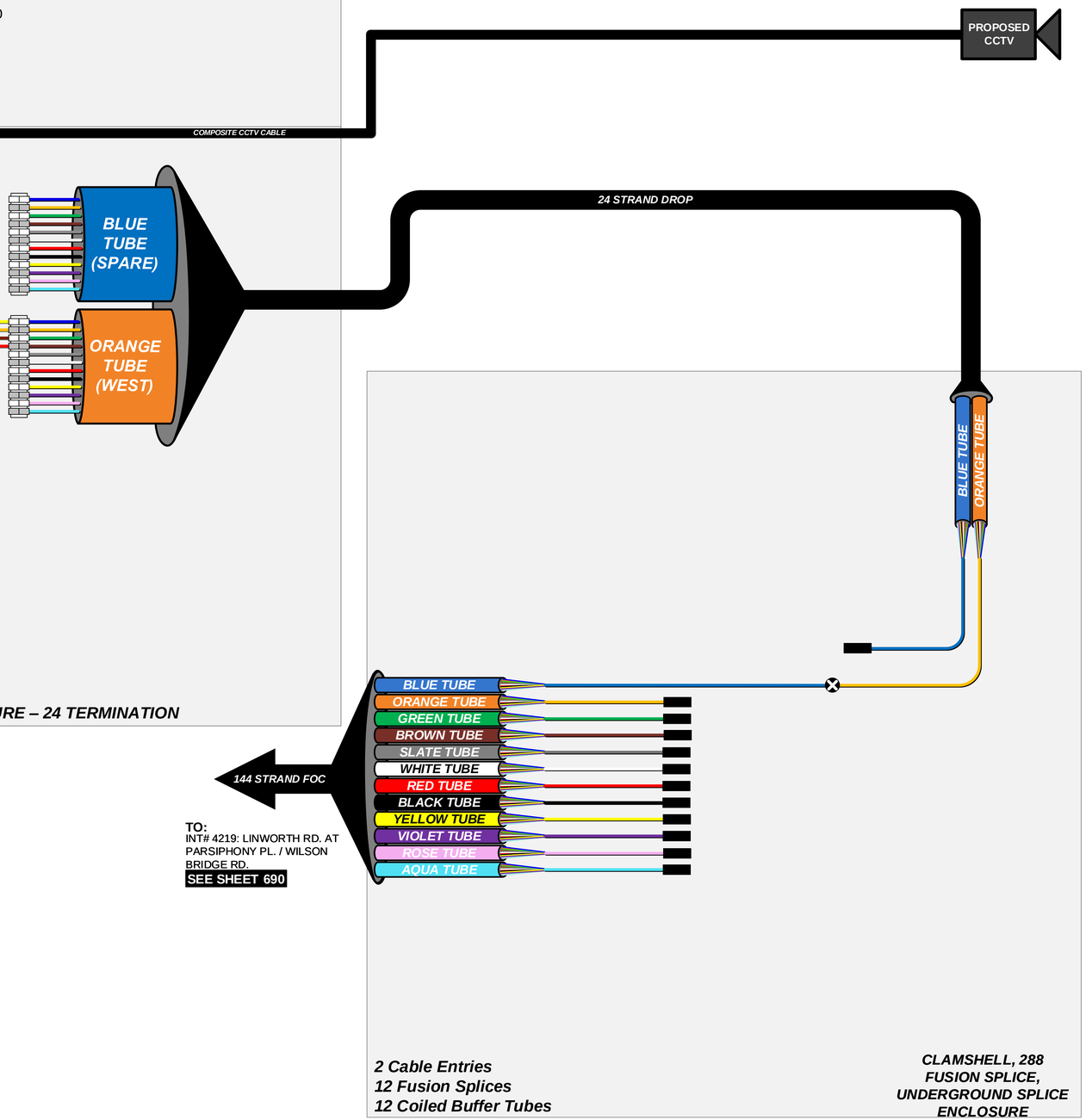


ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 4207: HARD RD. AT LINWORTH RD.
SEE SHEET 686

PORT 6: INT# 4219: LINWORTH RD. AT PARSIPHONY PL. / WILSON BRIDGE RD.
SEE SHEET 690

PATCH PANEL ENCLOSURE – 24 TERMINATION



TO:
INT# 4219: LINWORTH RD. AT PARSIPHONY PL. / WILSON BRIDGE RD.
SEE SHEET 690

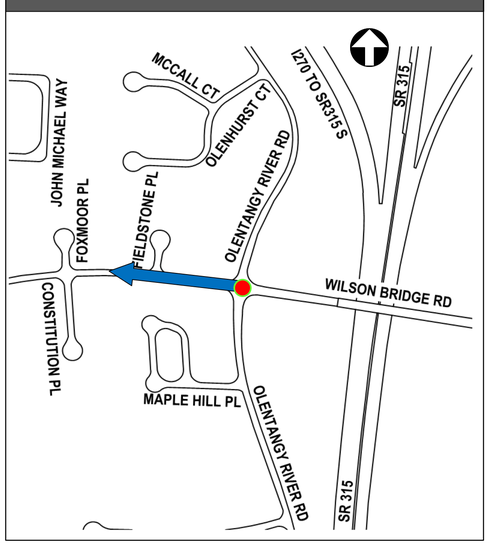
2 Cable Entries
12 Fusion Splices
12 Coiled Buffer Tubes

CLAMSHELL, 288 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- LH/ZX T R — GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 4226
REFER TO SHEET 362 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 615 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100012
PID NUMBER: 99733

INT# 4226: OLENTANGY RIVER RD. AT WILSON BRIDGE RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

691
915

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TRAFFIC SIGNAL CABINET ASSEMBLY

EXISTING ETHERNET SWITCH – LAYER 2

Ports: 1 2 3 4 5 6 7 8 (5 LH T/R, 6 LH T/R, 7 LH T/R)

TRAFFIC SIGNAL CONTROLLER
Ex. Econolite ASC/3-2100

Ethernet Module — 10/100 Mbs

ETHERNET SWITCH PORT DESTINATION

PORT 5: EXISTING CONNECTION TO INT AT HIGH ST. AND HIGHBLUFFS BLVD.

PORT 6: EXISTING CONNECTION TO INT AT HIGH ST. AND WB IR-270 RAMPS

PORT 7: INT# SIG4725: FLINT RD. AT PARK RD.
SEE SHEET 693

EXISTING CCTV CABINET

EXISTING CCTV FIELD BOX
- VIDEO/PTZ IP DATA — 10/100 Mbs
- CCTV/HEATER POWER
- ANALOG VIDEO

EXISTING COMPOSITE CCTV CABLE → EXISTING CCTV

EXISTING PATCH PANEL ENCLOSURE – 24 TERMINATION

BLUE TUBE (NORTH)
ORANGE TUBE (SOUTH)
BLUE TUBE (EAST)
ORANGE TUBE (SPARE)

PATCH PANEL ENCLOSURE – 24 TERMINATION

24 STRAND DROP
EXISTING 24 STRAND DROP
EXISTING 144 STRAND FOC

TO:
EXISTING CONNECTION TO INT AT HIGH ST. AND NORTHWOOD BLVD.

BLUE TUBE, ORANGE TUBE, GREEN TUBE, BROWN TUBE, SLATE TUBE, WHITE TUBE, RED TUBE, BLACK TUBE, YELLOW TUBE, VIOLET TUBE, ROSE TUBE, AQUA TUBE

BLUE TUBE, ORANGE TUBE
BLUE TUBE, ORANGE TUBE

144 STRAND FOC

TO:
INT# SIG4725: FLINT RD. AT PARK RD.
SEE SHEET 693

5 Cable Entries
204 Proposed Fusion Splices
228 Total Fusion Splices
2 Coiled Buffer Tubes

EXISTING SPLICE ENCLOSURE

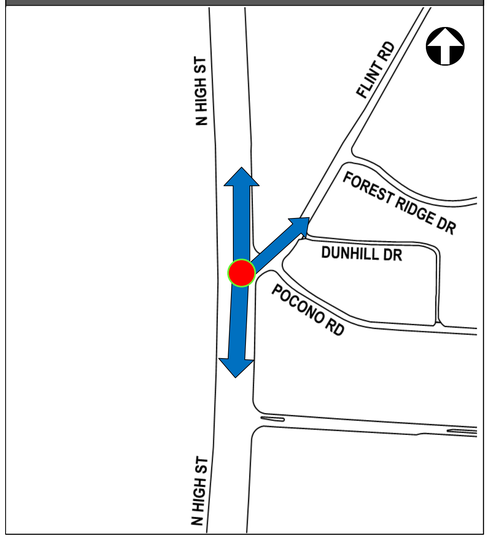
EXISTING 144 STRAND FOC

TO:
INT# 4146: CAMPUS VIEW BLVD. AT HIGH ST.
SEE SHEET 694

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- LH/ZX — GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 4172

REFER TO SHEET 378 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 616 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100012
PID NUMBER: 99733

INT# 4172: FLINT RD. AT HIGH ST.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

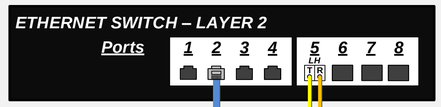
692
915

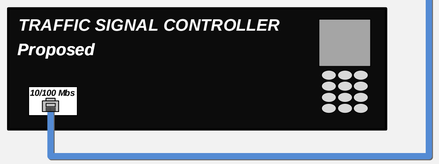
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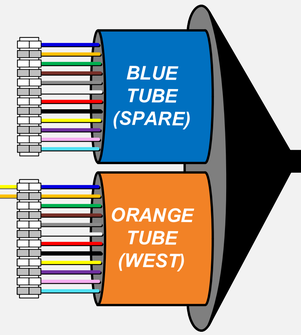
TRAFFIC SIGNAL CABINET ASSEMBLY

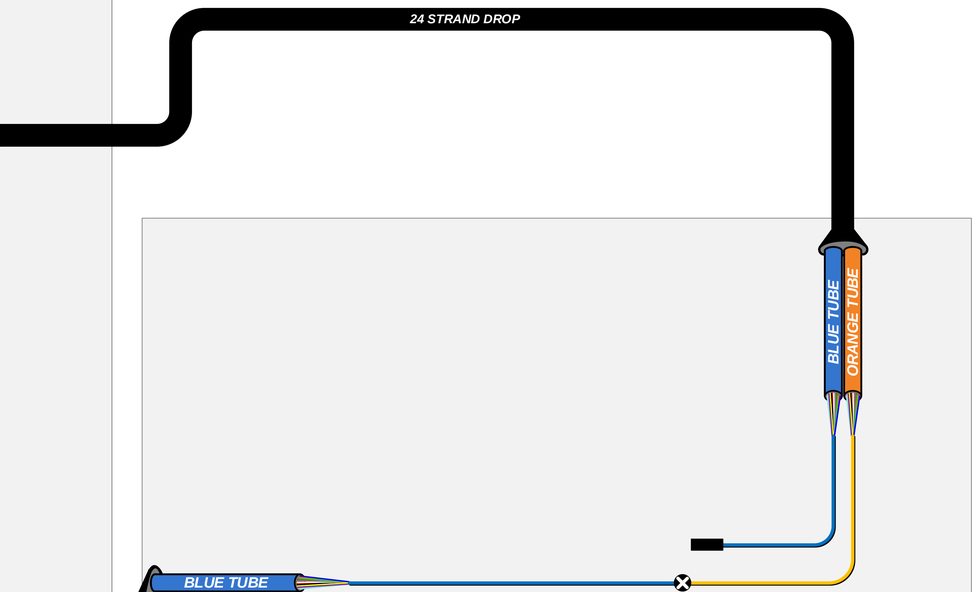
ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 4172: FLINT RD. AT HIGH ST.
SEE SHEET 692

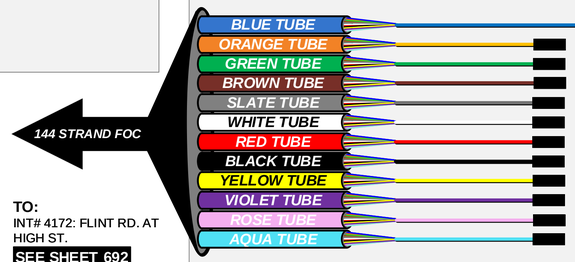








PATCH PANEL ENCLOSURE – 24 TERMINATION



TO:
INT# 4172: FLINT RD. AT HIGH ST.
SEE SHEET 692

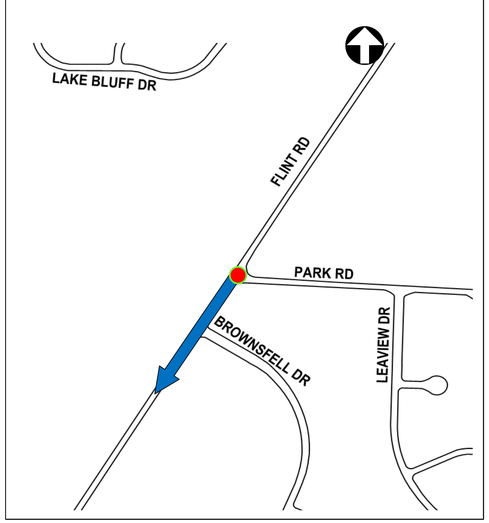
2 Cable Entries
12 Fusion Splices
12 Coiled Buffer Tubes

CLAMSHELL, 288 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- *LH/ZX* (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION SIG4725
REFER TO SHEET 380 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 616 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100012
PID NUMBER: 99733

INT# SIG4725: FLINT RD. AT PARK RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

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TRAFFIC SIGNAL CABINET ASSEMBLY

EXISTING ETHERNET SWITCH – LAYER 2

Ports 1 2 3 4 5 6 7 8 (5 6: LH T/R)

TRAFFIC SIGNAL CONTROLLER
Ex. Econolite ASC/3-2100

Ethernet Module 10/100 Mbs

ETHERNET SWITCH PORT DESTINATION

PORT 2: INT# 4212: CAMPUS VIEW BLVD. AT HIGH CROSS BLVD.
SEE SHEET 695

PORT 5: EXISTING CONNECTION TO INT AT HIGH ST. AND NORTHWOOD BLVD.

PORT 6: EXISTING CONNECTION TO COMMUNICATION NODE #270023.6: IR-270 AT US-23

EXISTING CCTV CABINET

EXISTING CCTV FIELD BOX
- VIDEO/PTZ IP DATA
- CCTV/HEATER POWER
- 10/100 Mbs
- ANALOG VIDEO

EXISTING COMPOSITE CCTV CABLE → EXISTING CCTV

WIRELESS LINK TO INT# 4212: CAMPUS VIEW BLVD. AT HIGH CROSS BLVD.
SEE SHEET 695

BLUE TUBE (NORTH)

ORANGE TUBE (SOUTH)

EXISTING 24 STRAND DROP

EXISTING 144 STRAND FOC

TO:
INT# 4172: FLINT RD. AT HIGH ST.
SEE SHEET 692

BLUE TUBE, ORANGE TUBE, GREEN TUBE, BROWN TUBE, SLATE TUBE, WHITE TUBE, RED TUBE, BLACK TUBE, YELLOW TUBE, VIOLET TUBE, ROSE TUBE, AQUA TUBE

BLUE TUBE, ORANGE TUBE

EXISTING SPLICE ENCLOSURE

EXISTING PATCH PANEL ENCLOSURE – 24 TERMINATION

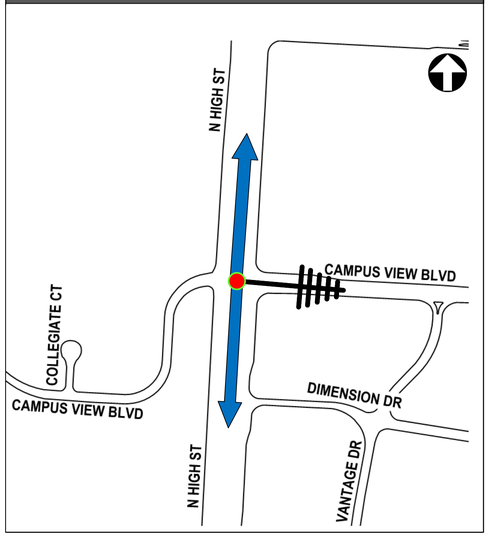
EXISTING 144 STRAND FOC

TO:
EXISTING CONNECTION TO INT AT IR-270 NB OFF RAMP AND HIGH ST.

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- LH/ZX (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 4146

REFER TO SHEET 374 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 616 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100012
PID NUMBER: 99733

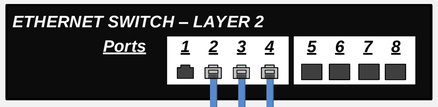
INT# 4146: CAMPUS VIEW BLVD. AT HIGH ST.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

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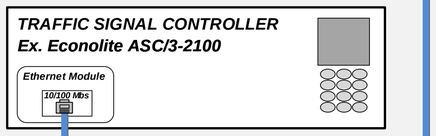
TRAFFIC SIGNAL CABINET ASSEMBLY

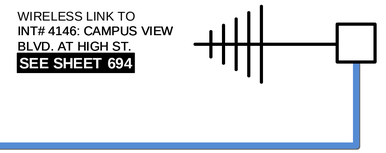


ETHERNET SWITCH PORT DESTINATION

PORT 3: INT# 4210: CAMPUS VIEW BLVD. AT CROSSWOODS DR. / HUNTINGTON PARK
SEE SHEET 696

PORT 4: INT# 4146: CAMPUS VIEW BLVD. AT HIGH ST.
SEE SHEET 694



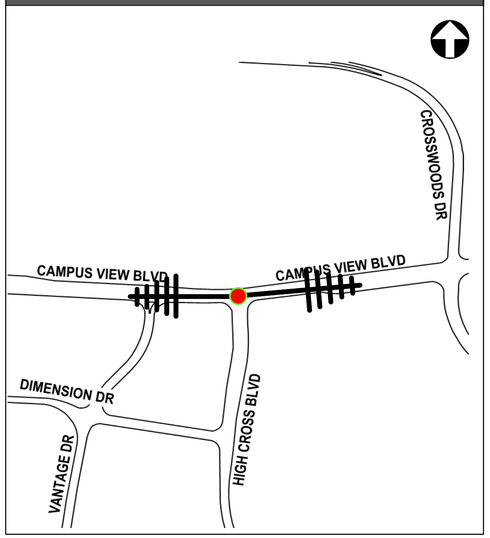




LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- LH/ZX (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 4212

REFER TO SHEET 375 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 616 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100012
PID NUMBER: 99733

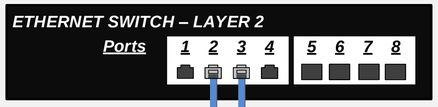
INT# 4212: CAMPUS VIEW BLVD. AT HIGH CROSS BLVD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

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915

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TRAFFIC SIGNAL CABINET ASSEMBLY

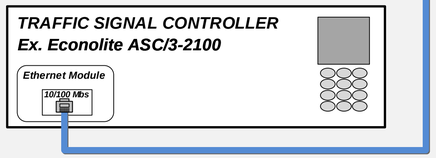


ETHERNET SWITCH PORT DESTINATION

PORT 3: INT# 4212: CAMPUS VIEW BLVD. AT HIGH CROSS BLVD.
SEE SHEET 695

WIRELESS LINK TO
INT# 4212: CAMPUS VIEW
BLVD. AT HIGH CROSS BLVD.
SEE SHEET 695

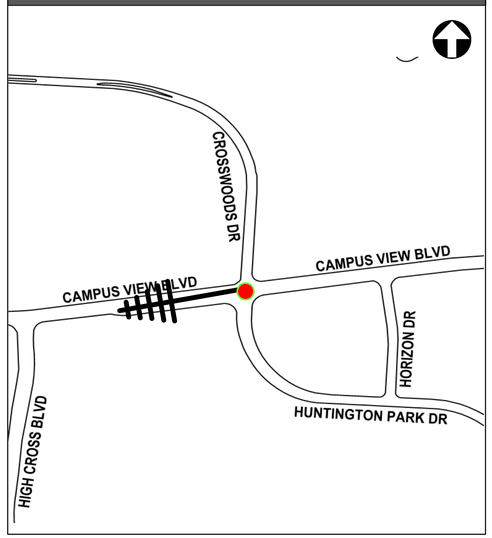




LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- *LH/ZX* (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 4210

REFER TO SHEET 376 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 616 FOR COMM OVERVIEW DETAILS

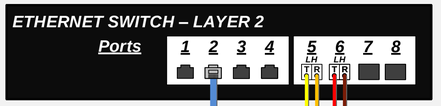
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PID NUMBER: 99733

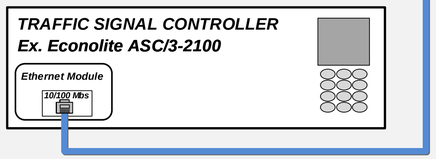
INT# 4210: CAMPUS VIEW BLVD. AT CROSSWOODS DR. / HUNTINGTON PARK

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

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TRAFFIC SIGNAL CABINET ASSEMBLY

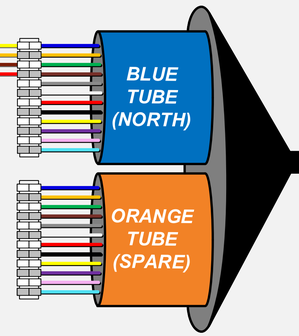


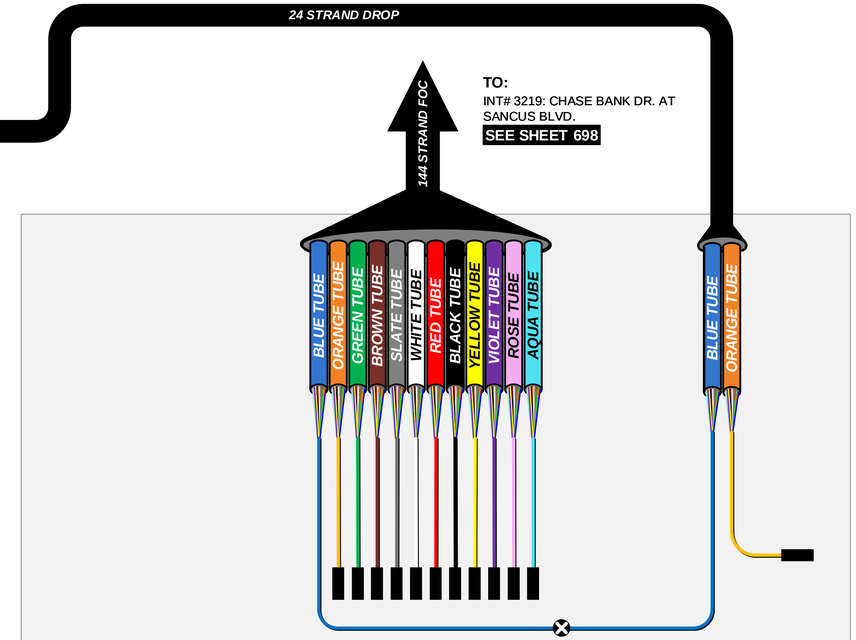


ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 3235: CHASE BANK NORTH / KROGER AT SANCUS BLVD.
SEE SHEET 699

PORT 6: INT# 3219: CHASE BANK DR. AT SANCUS BLVD.
SEE SHEET 698





2 Cable Entries
12 Fusion Splices
12 Coiled Buffer Tubes

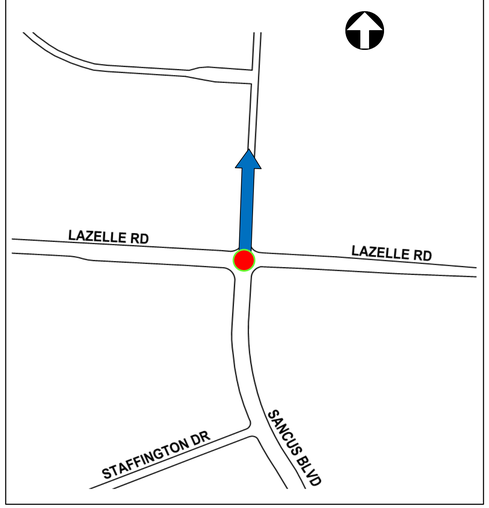
CLAMSHELL, 288 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE

PATCH PANEL ENCLOSURE – 24 TERMINATION

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- *LH/ZX* (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 3243

REFER TO SHEET 382 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 617 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100012
PID NUMBER: 99733

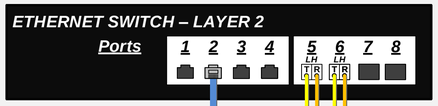
INT# 3243: LAZELLE RD. AT SANCUS BLVD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

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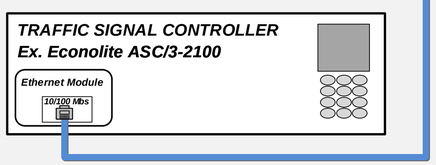
TRAFFIC SIGNAL CABINET ASSEMBLY

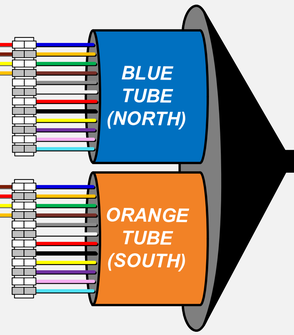


ETHERNET SWITCH PORT DESTINATION

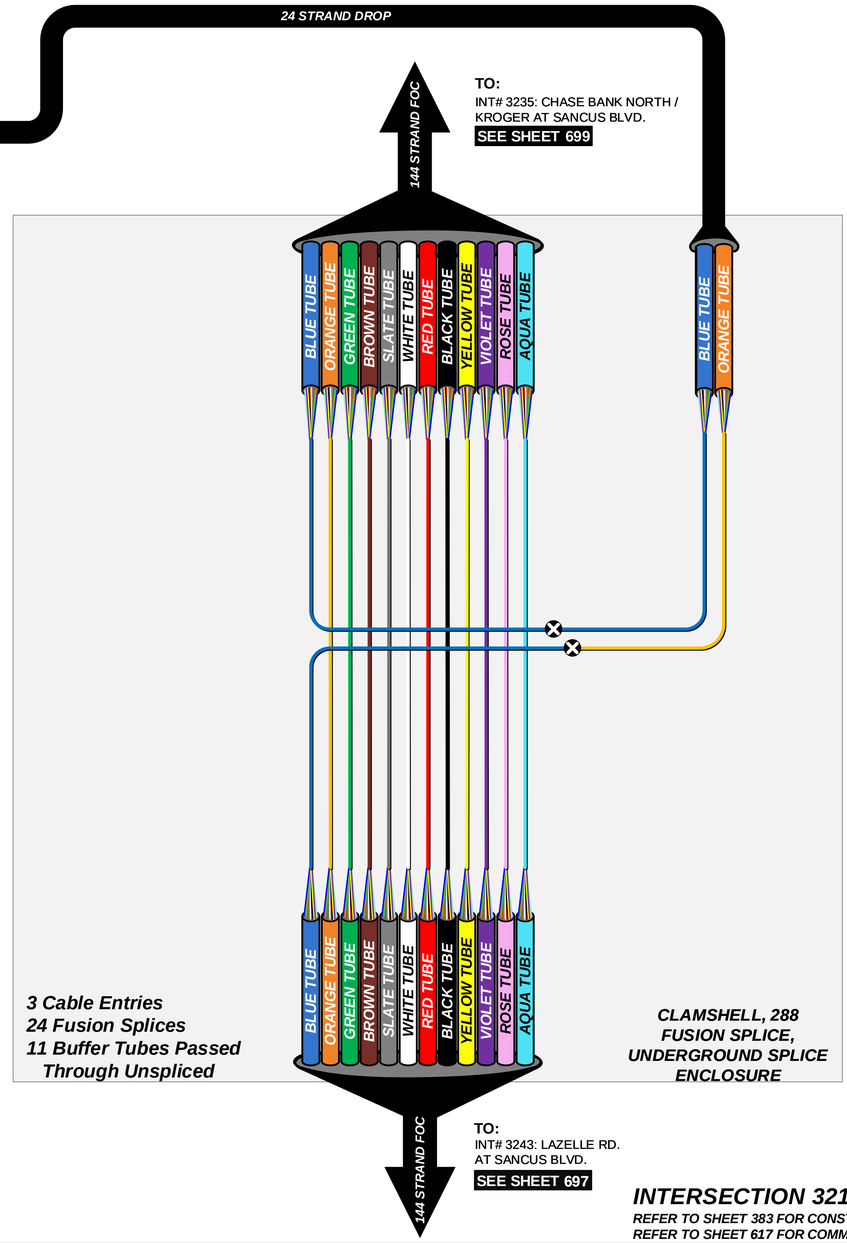
PORT 5: INT# 3246: POLARIS PKWY. AT POLARIS TOWNE CENTRE WEST
SEE SHEET 704

PORT 6: INT# 3243: LAZELLE RD. AT SANCUS BLVD.
SEE SHEET 697





PATCH PANEL ENCLOSURE – 24 TERMINATION



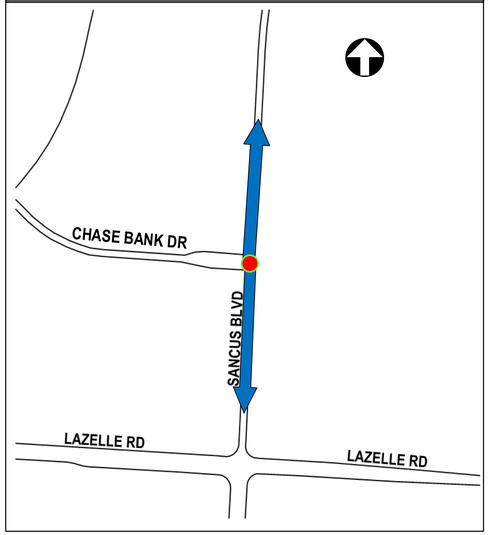
3 Cable Entries
24 Fusion Splices
11 Buffer Tubes Passed Through Unspliced

CLAMSHELL, 288 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- LH/ZX (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 3219

REFER TO SHEET 383 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 617 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100012
PID NUMBER: 99733

INT# 3219: CHASE BANK DR. AT SANCUS BLVD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

698
915

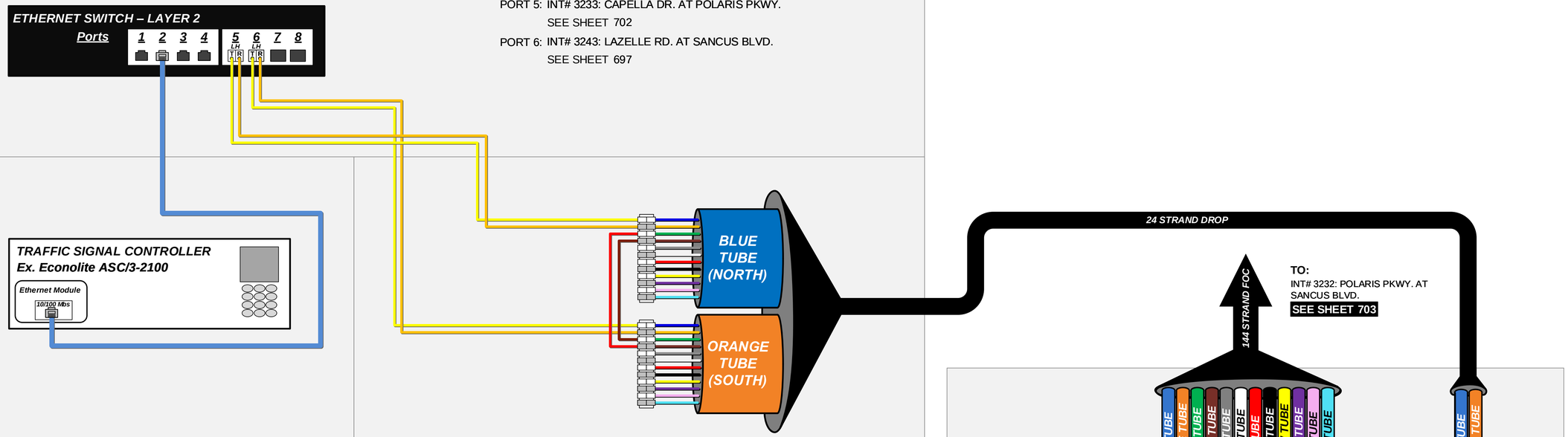
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TRAFFIC SIGNAL CABINET ASSEMBLY

ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 3233: CAPELLA DR. AT POLARIS PKWY.
SEE SHEET 702

PORT 6: INT# 3243: LAZELLE RD. AT SANCUS BLVD.
SEE SHEET 697

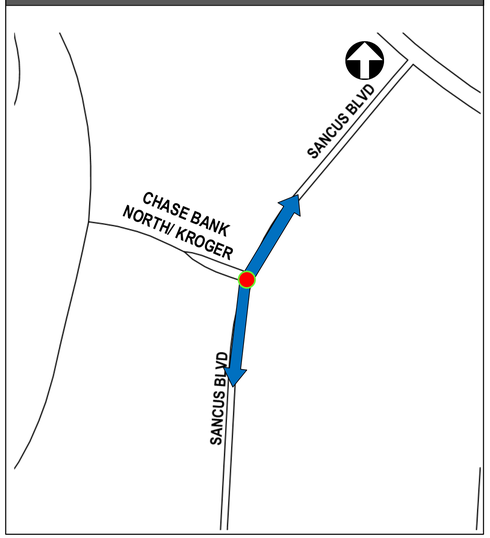


PATCH PANEL ENCLOSURE – 24 TERMINATION

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- LH/ZX (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 3235

REFER TO SHEET 384 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 617 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100012
PID NUMBER: 99733

INT# 3235: CHASE BANK NORTH / KROGER AT SANCUS BLVD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

699
915

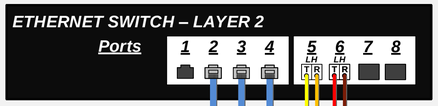
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TRAFFIC SIGNAL CABINET ASSEMBLY

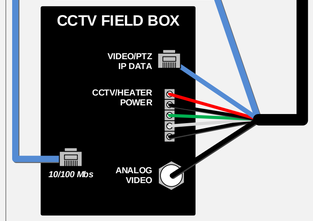
ETHERNET SWITCH PORT DESTINATION

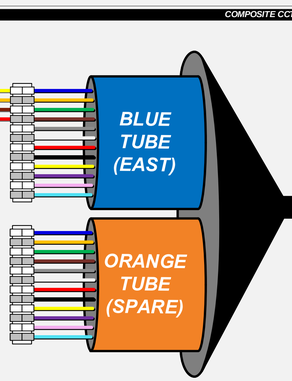
PORT 5: INT# 3233: CAPELLA DR. AT POLARIS PKWY.
SEE SHEET 702

PORT 6: INT# 3234: GEMINI PLACE AT POLARIS PKWY.
SEE SHEET 701

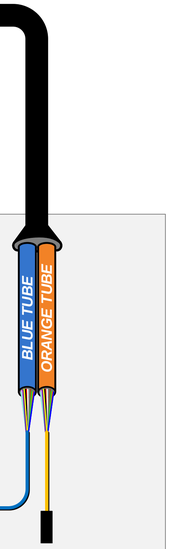


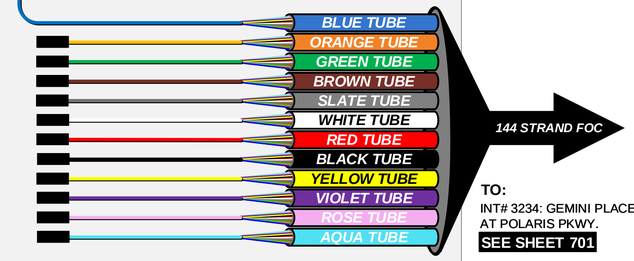












TO:
INT# 3234: GEMINI PLACE AT POLARIS PKWY.
SEE SHEET 701

PATCH PANEL ENCLOSURE – 24 TERMINATION

2 Cable Entries
12 Fusion Splices
12 Coiled Buffer Tubes

CLAMSHELL, 288 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- *LH/ZX* GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 3236
REFER TO SHEET 387 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 617 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100012
PID NUMBER: 99733

INT# 3236: OLD STATE RD. AT POLARIS PKWY.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

700
915

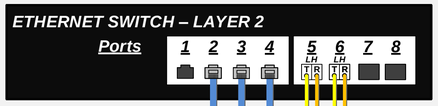
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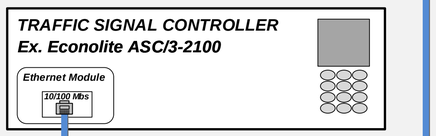
TRAFFIC SIGNAL CABINET ASSEMBLY

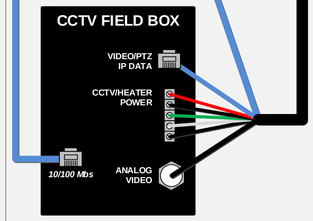
ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 3232: POLARIS PKWY. AT SANCUS BLVD.
SEE SHEET 703

PORT 6: INT# 3236: OLD STATE RD. AT POLARIS PKWY.
SEE SHEET 700



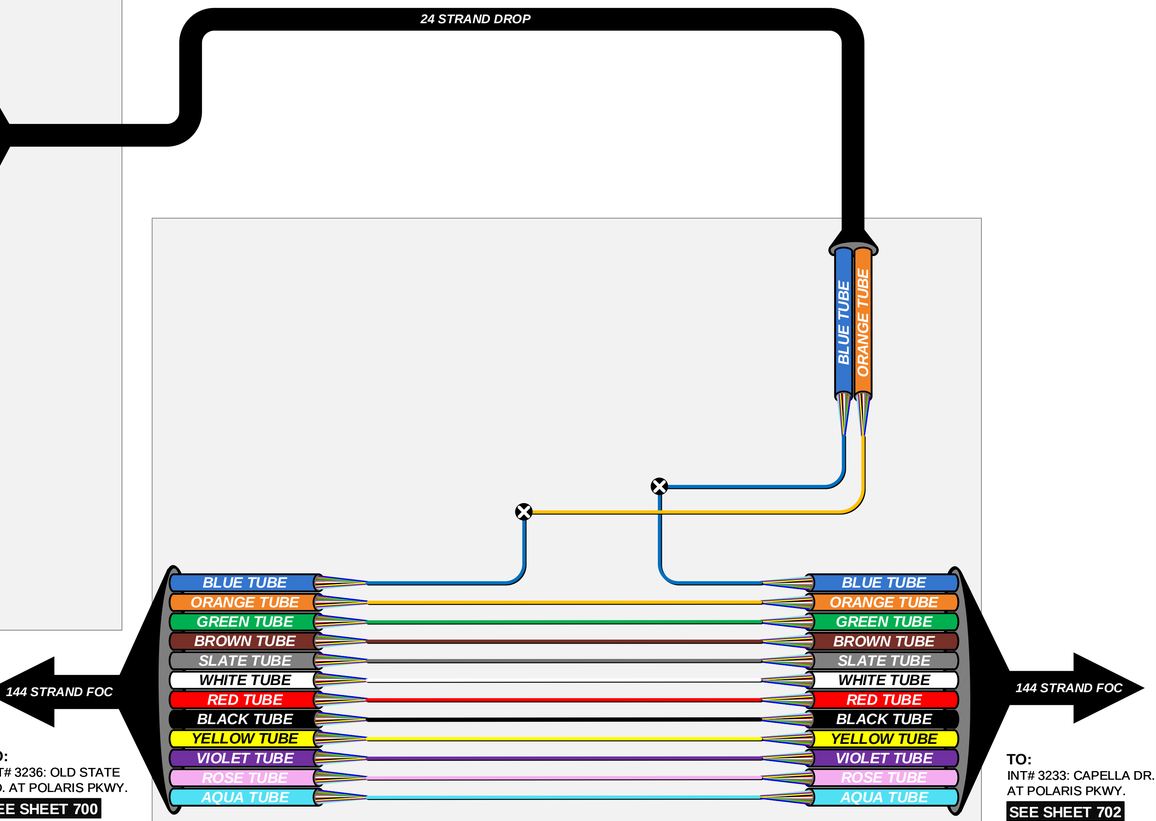




PATCH PANEL ENCLOSURE – 24 TERMINATION







TO:
INT# 3236: OLD STATE RD. AT POLARIS PKWY.
SEE SHEET 700

TO:
INT# 3233: CAPELLA DR. AT POLARIS PKWY.
SEE SHEET 702

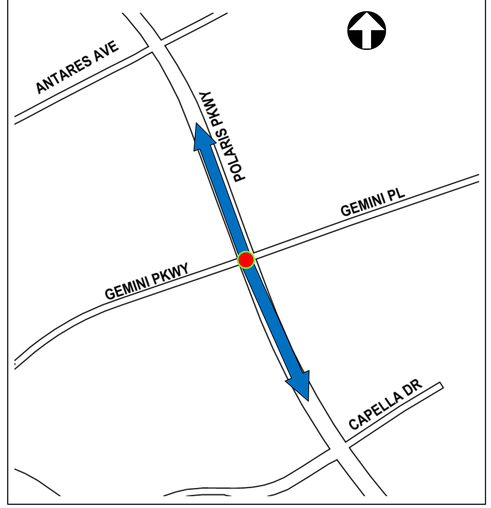
3 Cable Entries
24 Fusion Splices
11 Buffer Tubes Passed Through Unspliced

CLAMSHELL, 288 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- *LH/ZX* GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 3234

REFER TO SHEET 389 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 617 FOR COMM OVERVIEW DETAILS

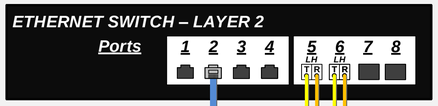
CIP: 540007 - 100012
PID NUMBER: 99733

INT# 3234: GEMINI PLACE AT POLARIS PKWY.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

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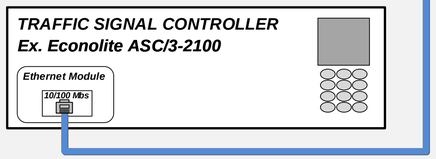
TRAFFIC SIGNAL CABINET ASSEMBLY

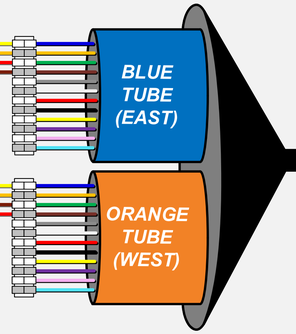


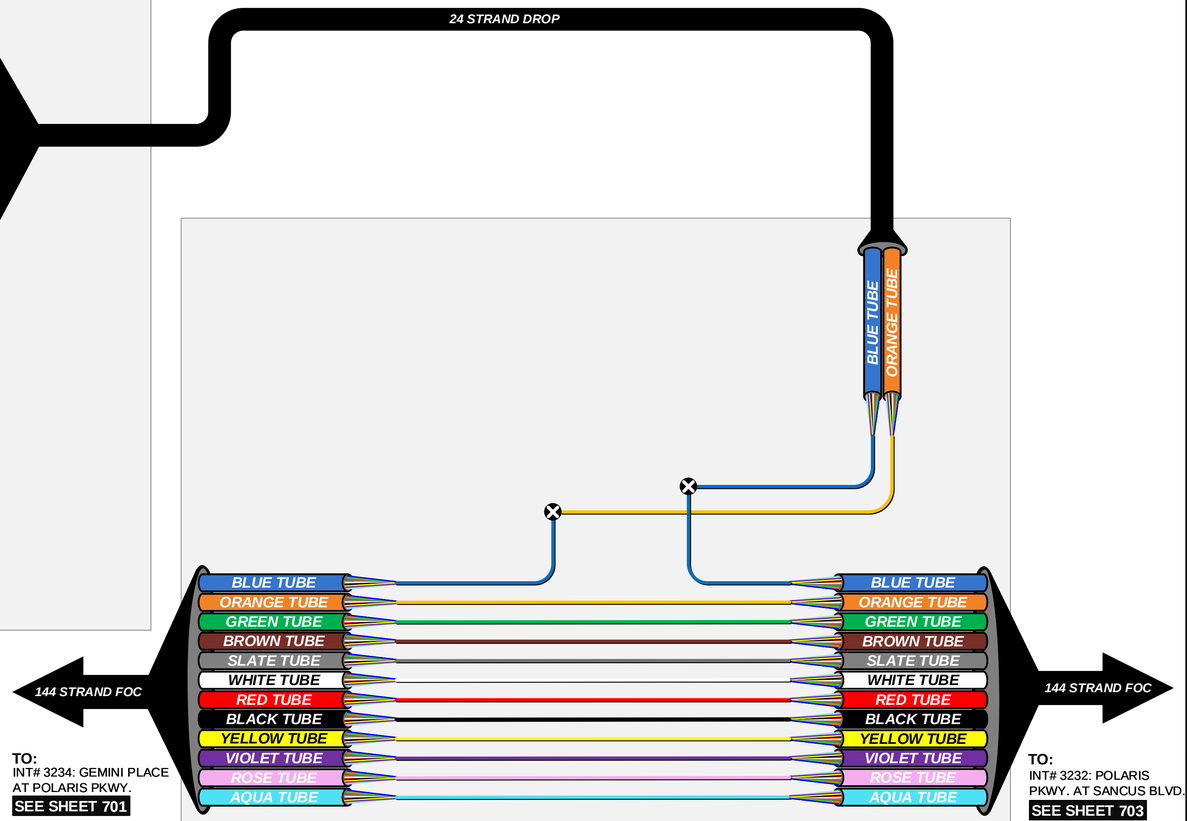
ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 3235: CHASE BANK NORTH / KROGER AT SANCUS BLVD.
SEE SHEET 699

PORT 6: INT# 3236: OLD STATE RD. AT POLARIS PKWY.
SEE SHEET 700







TO:
INT# 3234: GEMINI PLACE AT POLARIS PKWY.
SEE SHEET 701

TO:
INT# 3232: POLARIS PKWY. AT SANCUS BLVD.
SEE SHEET 703

PATCH PANEL ENCLOSURE – 24 TERMINATION

3 Cable Entries
24 Fusion Splices
11 Buffer Tubes Passed Through Unspliced

CLAMSHELL, 288 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- LH/ZX (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 3233
REFER TO SHEET 390 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 617 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100012
PID NUMBER: 99733

INT# 3233: CAPELLA DR. AT POLARIS PKWY.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

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TRAFFIC SIGNAL CABINET ASSEMBLY

ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 3245: POLARIS PKWY. AT POLARIS TOWNE CENTRE EAST
SEE SHEET 705

PORT 6: INT# 3234: GEMINI PLACE AT POLARIS PKWY.
SEE SHEET 701

ETHERNET SWITCH – LAYER 2

Ports 1 2 3 4 5 (LH T R) 6 (LH T R) 7 8

TRAFFIC SIGNAL CONTROLLER
Ex. Econolite ASC/3-2100

Ethernet Module
10/100 Mbs

CCTV FIELD BOX
VIDEO/PTZ IP DATA
CCTV/HEATER POWER
ANALOG VIDEO
10/100 Mbs

COMPOSITE CCTV CABLE

EXISTING CCTV

24 STRAND DROP

24 STRAND DROP

BLUE TUBE (EAST)

ORANGE TUBE (WEST)

BLUE TUBE (SPARE)

ORANGE TUBE (SOUTH)

PATCH PANEL ENCLOSURES: (2) - 24 TERMINATION

BLUE TUBE ***ORANGE TUBE***

BLUE TUBE ***ORANGE TUBE***

144 STRAND FOC

TO:
INT# 3233: CAPELLA DR. AT POLARIS PKWY.
SEE SHEET 702

BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE
RED TUBE
BLACK TUBE
YELLOW TUBE
VIOLET TUBE
ROSE TUBE
AQUA TUBE

144 STRAND FOC

TO:
INT# 3246: POLARIS PKWY. AT POLARIS TOWNE CENTRE WEST
SEE SHEET 704

5 Cable Entries
228 Fusion Splices
2 Coiled Buffer Tubes

CLAMSHELL, 288 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE

BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE
RED TUBE
BLACK TUBE
YELLOW TUBE
VIOLET TUBE
ROSE TUBE
AQUA TUBE

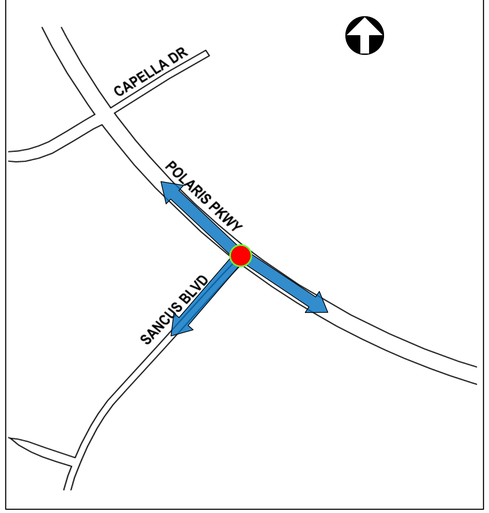
144 STRAND FOC

TO:
INT# 3235: CHASE BANK NORTH / KROGER AT SANCUS BLVD.
SEE SHEET 699

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- *LH/ZX* (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 3232

REFER TO SHEET 390 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 617 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100012
PID NUMBER: 99733

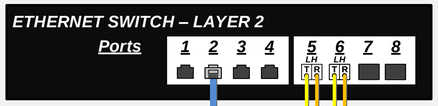
INT# 3232: POLARIS PKWY. AT SANCUS BLVD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

703
915

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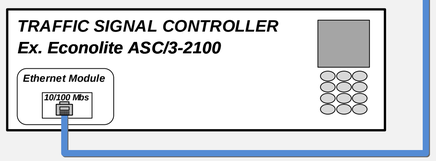
TRAFFIC SIGNAL CABINET ASSEMBLY

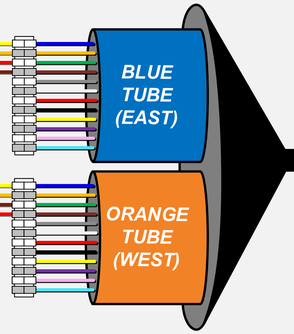


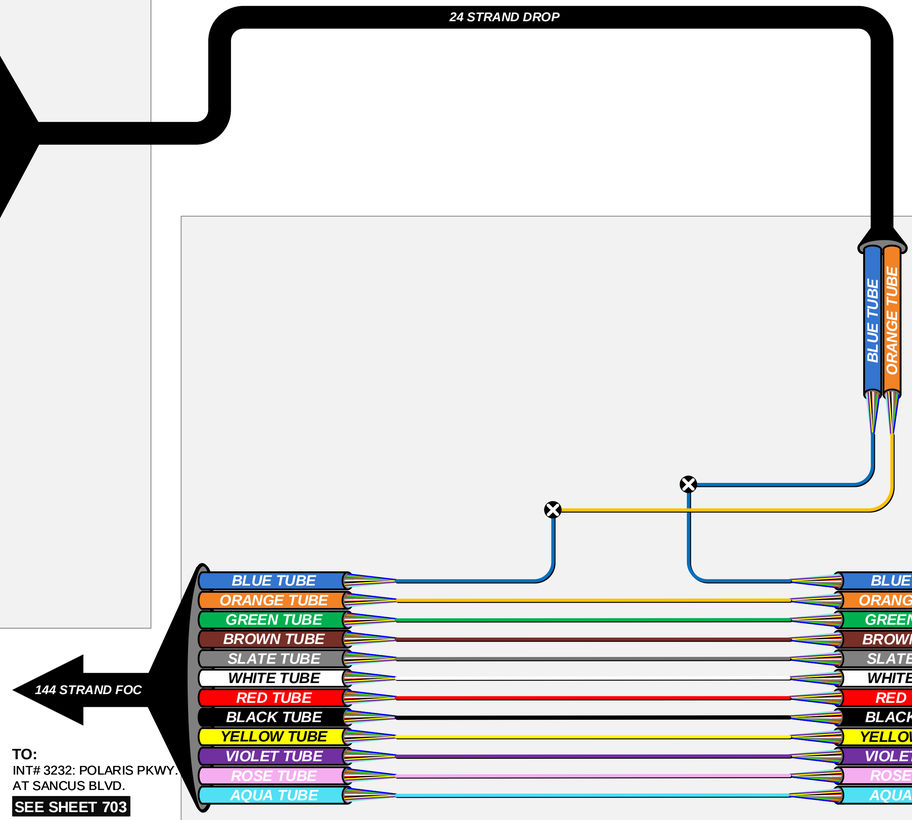
ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 3255: LYRA DR. AT POLARIS PKWY.
SEE SHEET 706

PORT 6: INT# 3219: CHASE BANK DR. AT SANCUS BLVD.
SEE SHEET 698







TO:
INT# 3232: POLARIS PKWY. AT SANCUS BLVD.
SEE SHEET 703

TO:
INT# 3245: POLARIS PKWY. AT POLARIS TOWNE CENTRE EAST
SEE SHEET 705

PATCH PANEL ENCLOSURE – 24 TERMINATION

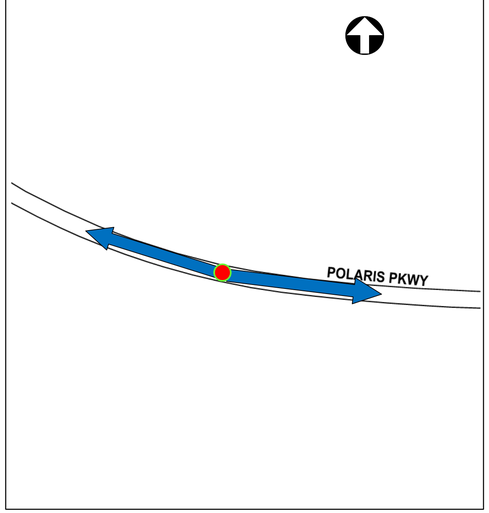
3 Cable Entries
24 Fusion Splices
11 Buffer Tubes Passed Through Unspliced

CLAMSHELL, 288 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- LH/ZX (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 3246

REFER TO SHEET 392 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 617 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100012
PID NUMBER: 99733

INT# 3246: POLARIS PKWY. AT POLARIS TOWNE CENTRE WEST
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

704
915

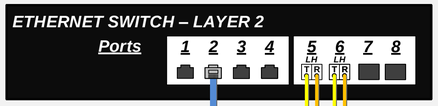
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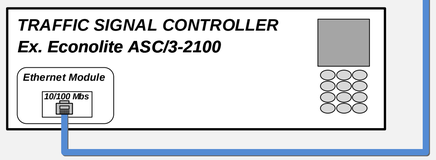
TRAFFIC SIGNAL CABINET ASSEMBLY

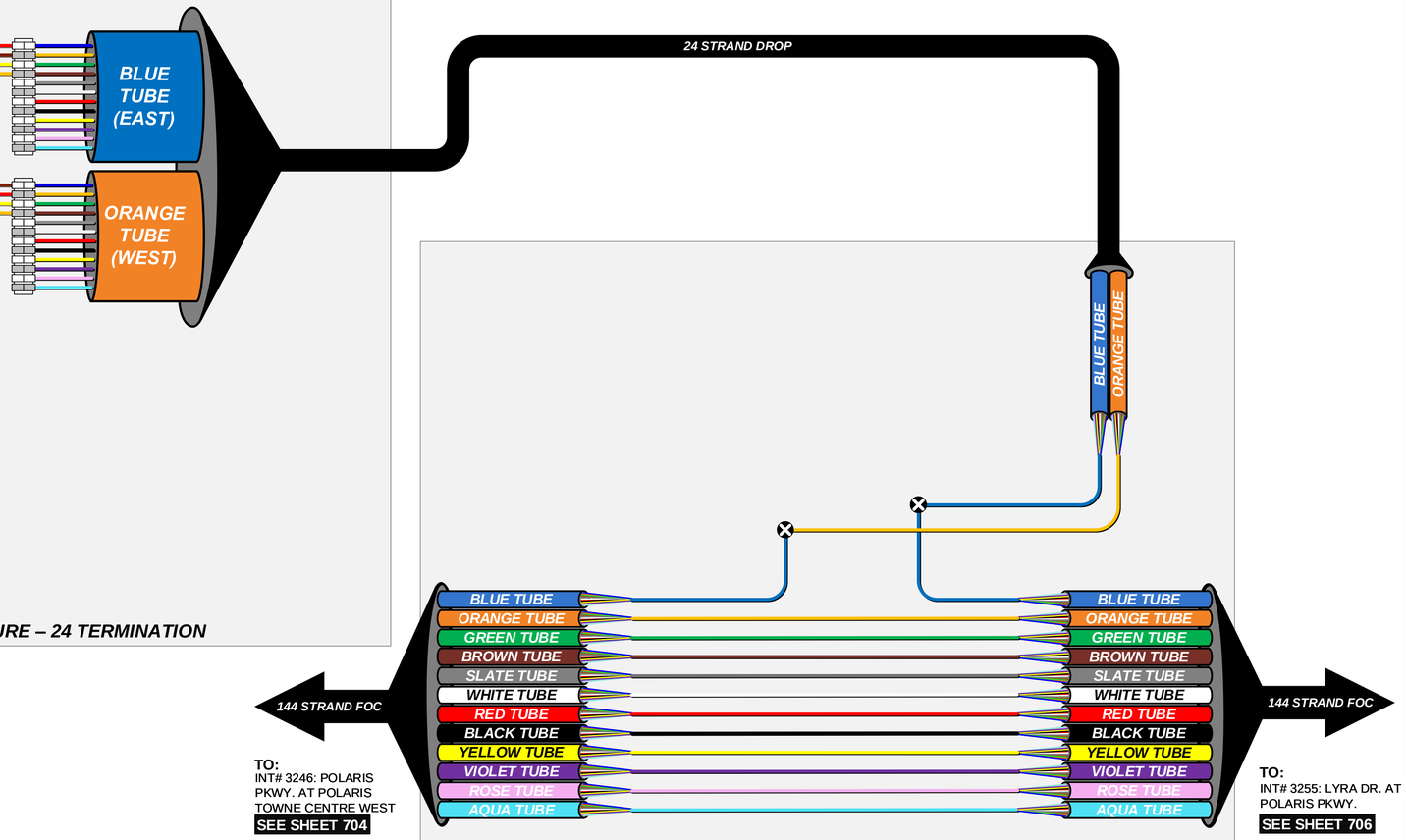
ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 3277: POLARIS NEIGHBORHOOD CENTER AT POLARIS PKWY.
SEE SHEET 709

PORT 6: INT# 3232: POLARIS PKWY. AT SANCUS BLVD.
SEE SHEET 703







PATCH PANEL ENCLOSURE – 24 TERMINATION

TO:
INT# 3246: POLARIS PKWY. AT POLARIS TOWNE CENTRE WEST
SEE SHEET 704

TO:
INT# 3255: LYRA DR. AT POLARIS PKWY.
SEE SHEET 706

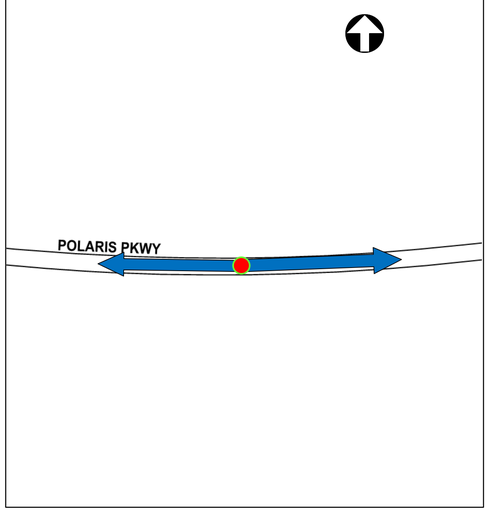
3 Cable Entries
24 Fusion Splices
11 Buffer Tubes Passed Through Unspliced

CLAMSHELL, 288 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- *LH/ZX* (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 3245
REFER TO SHEET 394 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 617 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100012
PID NUMBER: 99733

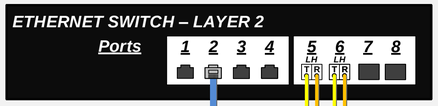
INT# 3245: POLARIS PKWY. AT POLARIS TOWNE CENTRE EAST
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

705
915

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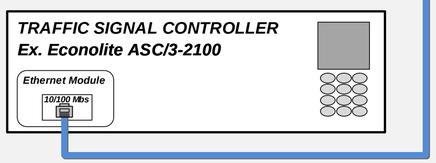
TRAFFIC SIGNAL CABINET ASSEMBLY

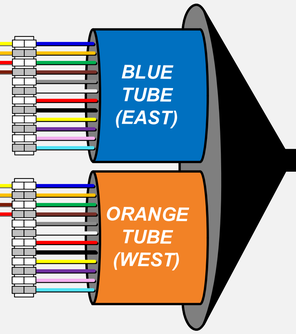


ETHERNET SWITCH PORT DESTINATION

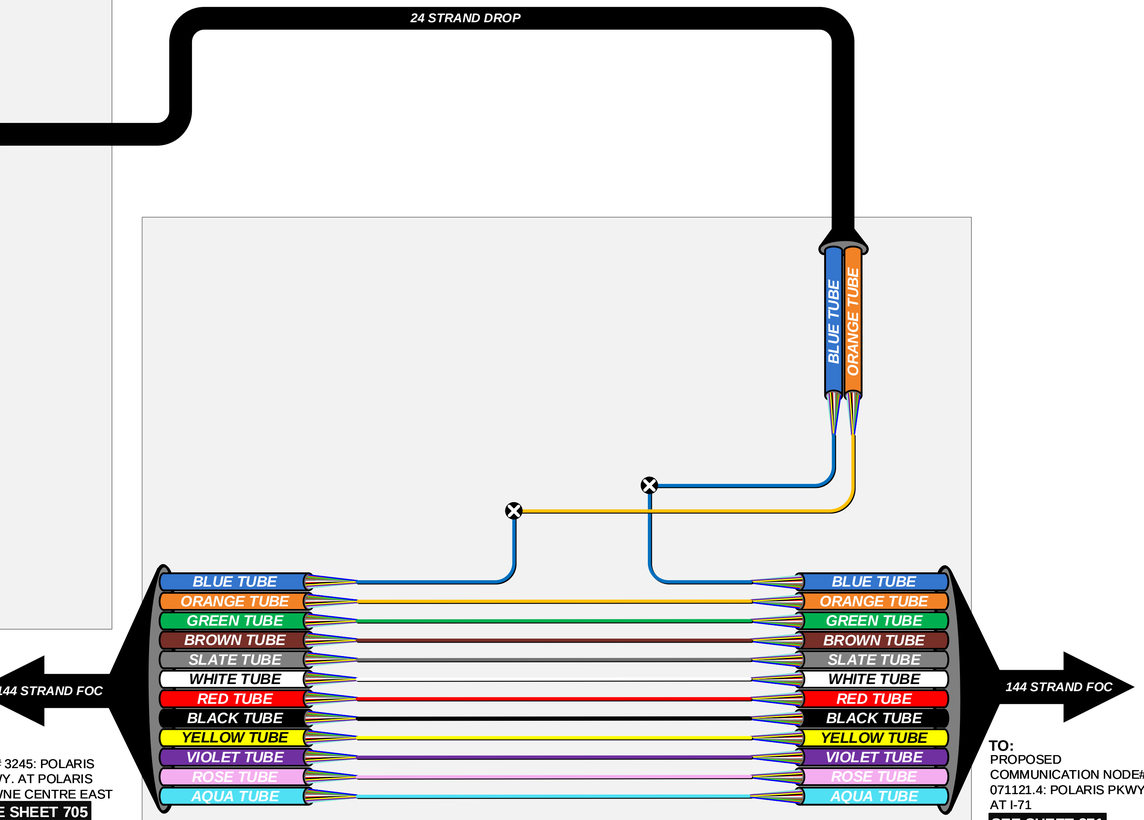
PORT 5: PROPOSED COMMUNICATION NODE# 071121.4: POLARIS PKWY AT I-71
SEE SHEET 870

PORT 6: INT# 3246: POLARIS PKWY. AT POLARIS TOWNE CENTRE WEST
SEE SHEET 704





PATCH PANEL ENCLOSURE – 24 TERMINATION



TO:
INT# 3245: POLARIS PKWY. AT POLARIS TOWNE CENTRE EAST
SEE SHEET 705

TO:
PROPOSED COMMUNICATION NODE# 071121.4: POLARIS PKWY AT I-71
SEE SHEET 871

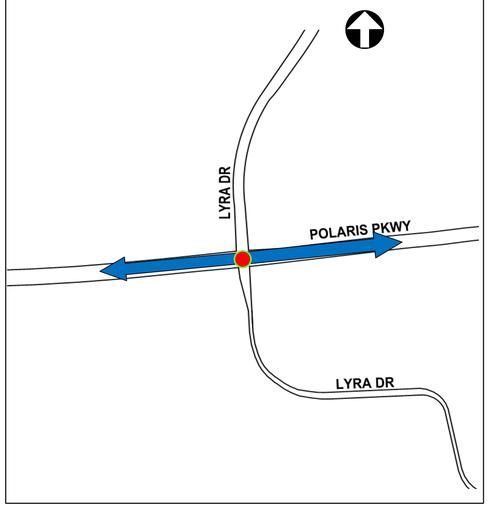
3 Cable Entries
24 Fusion Splices
11 Buffer Tubes Passed Through Unspliced

CLAMSHELL, 288 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- LH/ZX (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 3255
REFER TO SHEET 395 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 618 FOR COMM OVERVIEW DETAILS

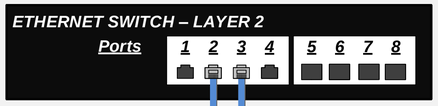
CIP: 540007 - 100012
PID NUMBER: 99733

INT# 3255: LYRA DR. AT POLARIS PKWY.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

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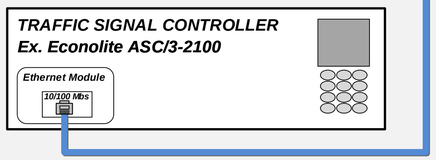
TRAFFIC SIGNAL CABINET ASSEMBLY



ETHERNET SWITCH PORT DESTINATION

PORT 3: PROPOSED COMMUNICATION NODE# 071121.4: POLARIS PKWY AT I-71
SEE SHEET 870

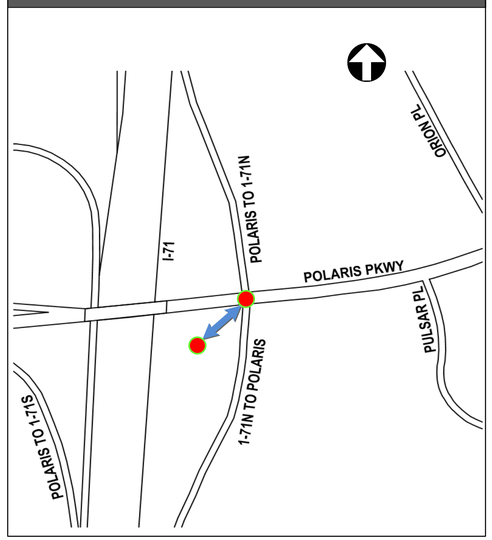
TO:
PROPOSED
COMMUNICATION NODE#
071121.4: POLARIS PKWY
AT I-71
SEE SHEET 871



LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- LH/ZX — GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 3211
REFER TO SHEET 397 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 618 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100012
PID NUMBER: 99733

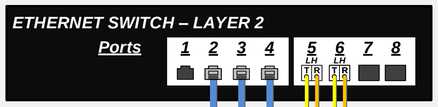
INT# 3211: I-71 NB AT POLARIS PKWY.
COMMUNICATIONS DIAGRAM

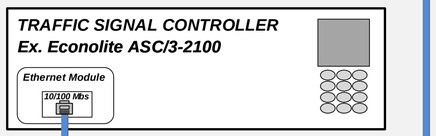
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

707
915

J:\Jobs\63721 CTSS Phase E\TECH\PROD\Communications\Intersection Splicing Details\702-722.vsd - 3211 layout ~ last saved by: skoganti 9/13/2018 4:51:11 PM ~ printed: 9/13/2018 4:51:11 PM

TRAFFIC SIGNAL CABINET ASSEMBLY

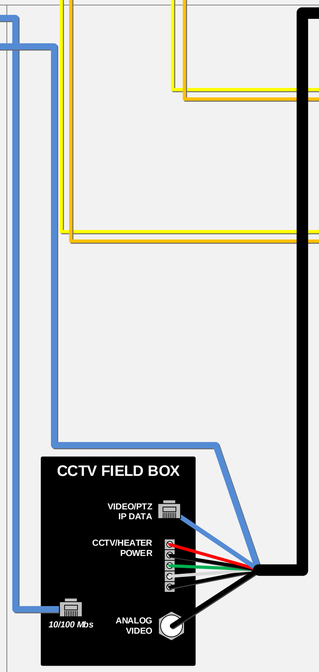




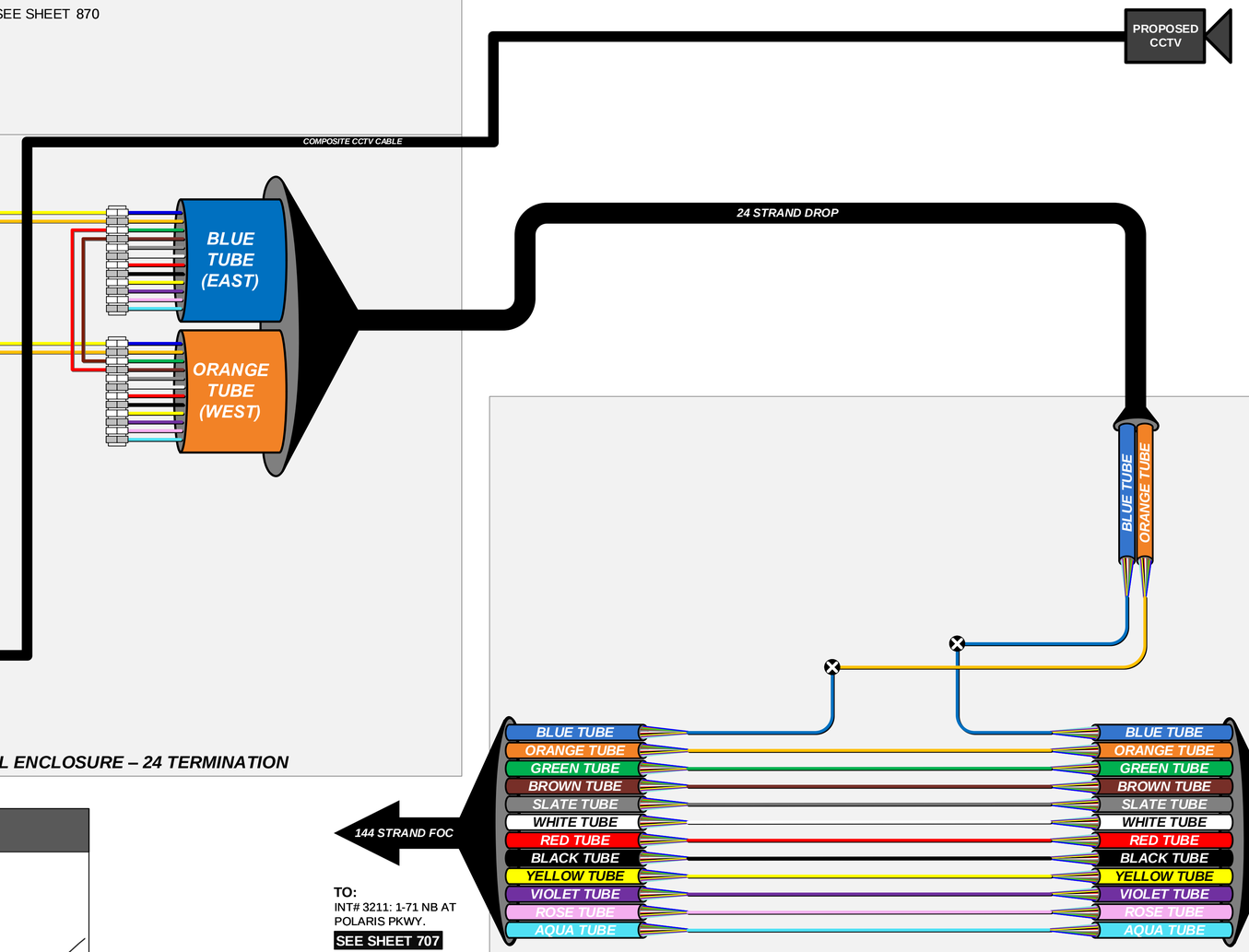
ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 3308: OLDE WORTHINGTON RD. AT POLARIS PKWY.
SEE SHEET 710

PORT 6: PROPOSED COMMUNICATION NODE# 071121.4: POLARIS PKWY AT I-71
SEE SHEET 870



PATCH PANEL ENCLOSURE – 24 TERMINATION



TO:
INT# 3211: 1-71 NB AT POLARIS PKWY.
SEE SHEET 707

TO:
INT# 3277: POLARIS NEIGHBORHOOD CENTER AT POLARIS PKWY.
SEE SHEET 709

3 Cable Entries
24 Fusion Splices
11 Buffer Tubes Passed Through Unspliced

CLAMSHELL, 288 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- LH/ZX T R — GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 3224
REFER TO SHEET 399 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 618 FOR COMM OVERVIEW DETAILS

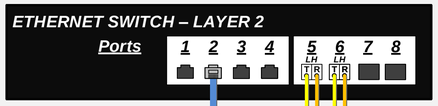
CIP: 540007 - 100012
PID NUMBER: 99733

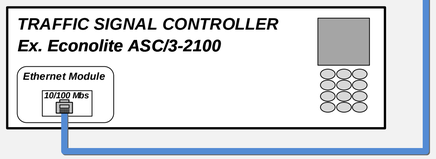
INT# 3224: ORION PL. AT POLARIS PKWY.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

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TRAFFIC SIGNAL CABINET ASSEMBLY

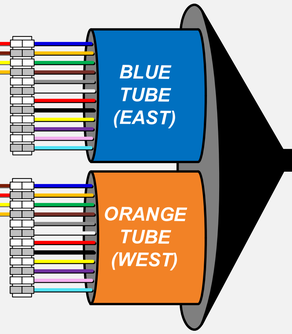


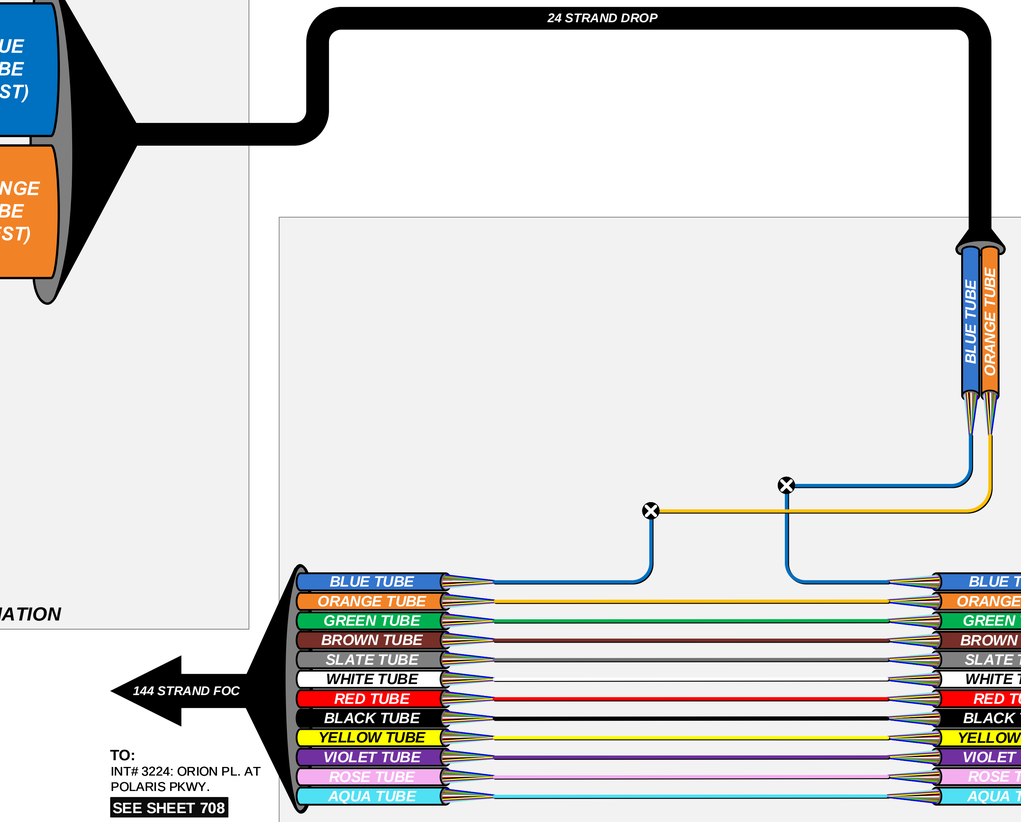


ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 3308: OLDE WORTHINGTON RD. AT POLARIS PKWY.
SEE SHEET 710

PORT 6: INT# 3245: POLARIS PKWY. AT POLARIS TOWNE CENTRE EAST
SEE SHEET 705





TO:
INT# 3224: ORION PL. AT POLARIS PKWY.
SEE SHEET 708

TO:
INT# 3308: OLDE WORTHINGTON RD. AT POLARIS PKWY.
SEE SHEET 710

PATCH PANEL ENCLOSURE – 24 TERMINATION

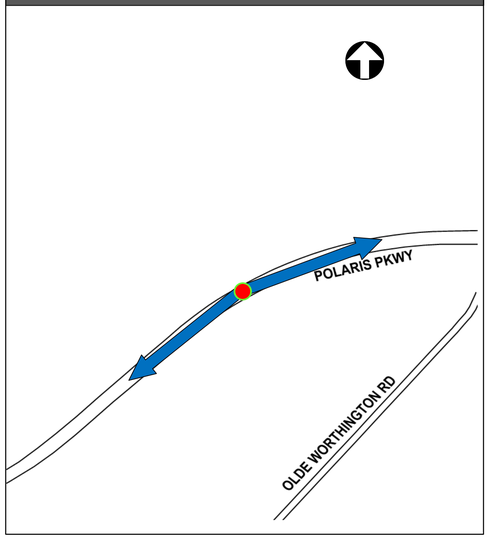
3 Cable Entries
24 Fusion Splices
11 Buffer Tubes Passed Through Unspliced

CLAMSHELL, 288 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- LH/ZX (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 3277
REFER TO SHEET 400 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 618 FOR COMM OVERVIEW DETAILS

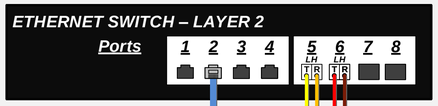
CIP: 540007 - 100012
PID NUMBER: 99733

INT# 3277: POLARIS NEIGHBORHOOD CENTER AT POLARIS PKWY.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

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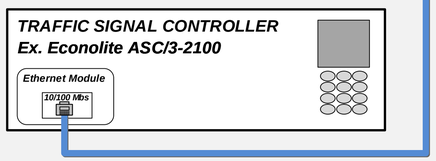
TRAFFIC SIGNAL CABINET ASSEMBLY

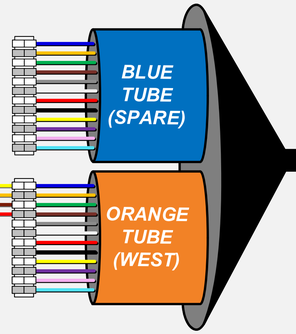


ETHERNET SWITCH PORT DESTINATION

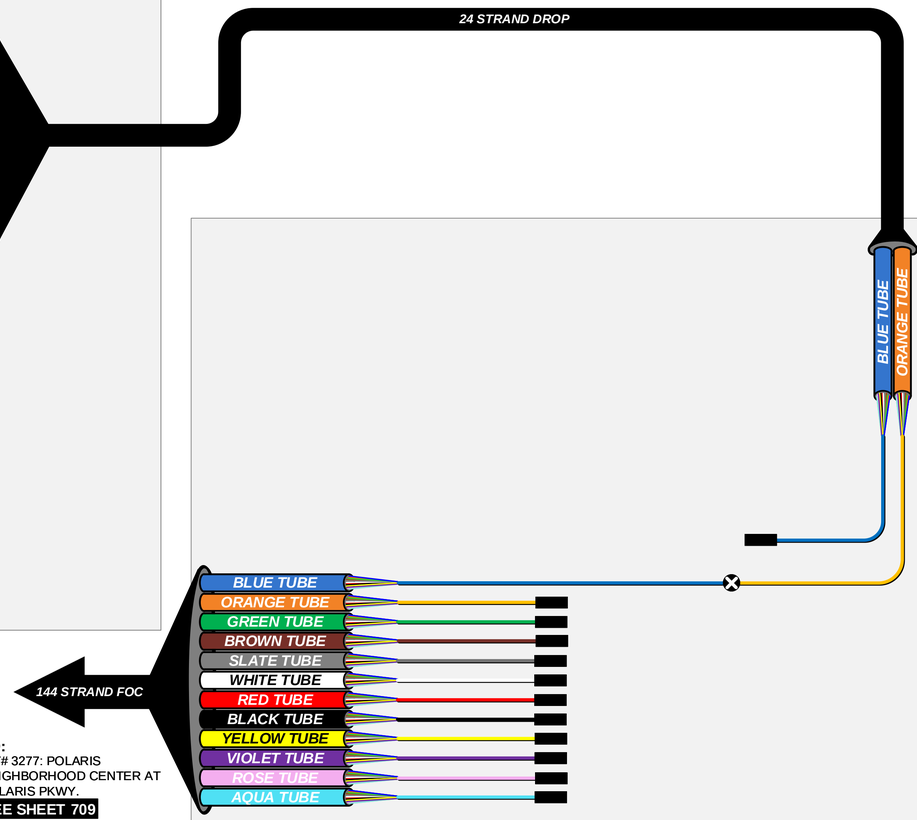
PORT 5: INT# 3224: ORION PL. AT POLARIS PKWY.
SEE SHEET 708

PORT 6: INT# 3277: POLARIS NEIGHBORHOOD CENTER AT POLARIS PKWY.
SEE SHEET 709





PATCH PANEL ENCLOSURE – 24 TERMINATION



TO:
INT# 3277: POLARIS NEIGHBORHOOD CENTER AT POLARIS PKWY.
SEE SHEET 709

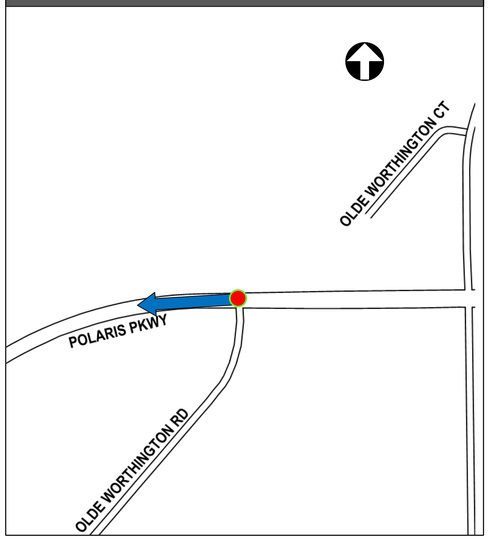
2 Cable Entries
12 Fusion Splices
12 Coiled Buffer Tubes

CLAMSHELL, 288 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- *LH/ZX* (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 3308
REFER TO SHEET 401 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 618 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100012
PID NUMBER: 99733

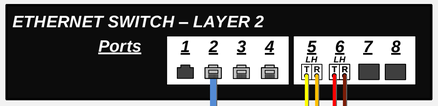
INT# 3308: OLDE WORTHINGTON RD. AT POLARIS PKWY.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

710
915

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TRAFFIC SIGNAL CABINET ASSEMBLY

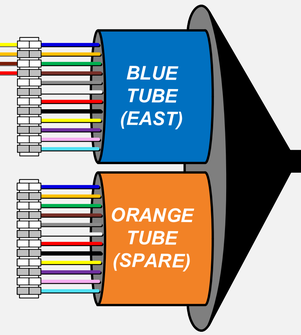


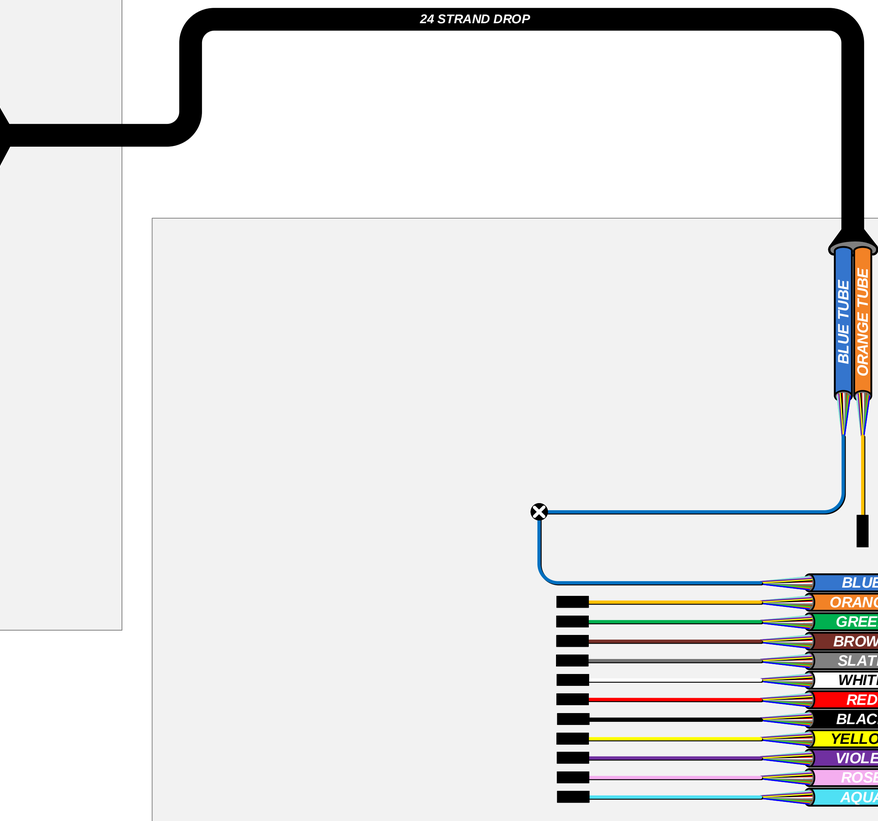
ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 3214: GEMINI PLACE AT I-71 SB
SEE SHEET 713

PORT 6: INT# 3213: GEMINI PLACE AT LYRA DR.
SEE SHEET 712







PATCH PANEL ENCLOSURE – 24 TERMINATION

2 Cable Entries
12 Fusion Splices
12 Coiled Buffer Tubes

CLAMSHELL, 288 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- LH/ZX (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 3217

REFER TO SHEET 406 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 618 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100012
PID NUMBER: 99733

INT# 3217: GEMINI PLACE AT SOLSTICE PKWY.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

711
915

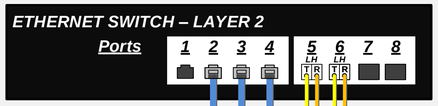
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TRAFFIC SIGNAL CABINET ASSEMBLY

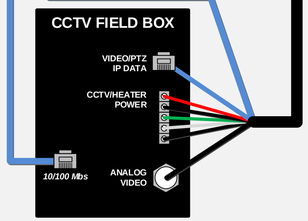
ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 3311: IKEA WAY AT ORION PL.
SEE SHEET 715

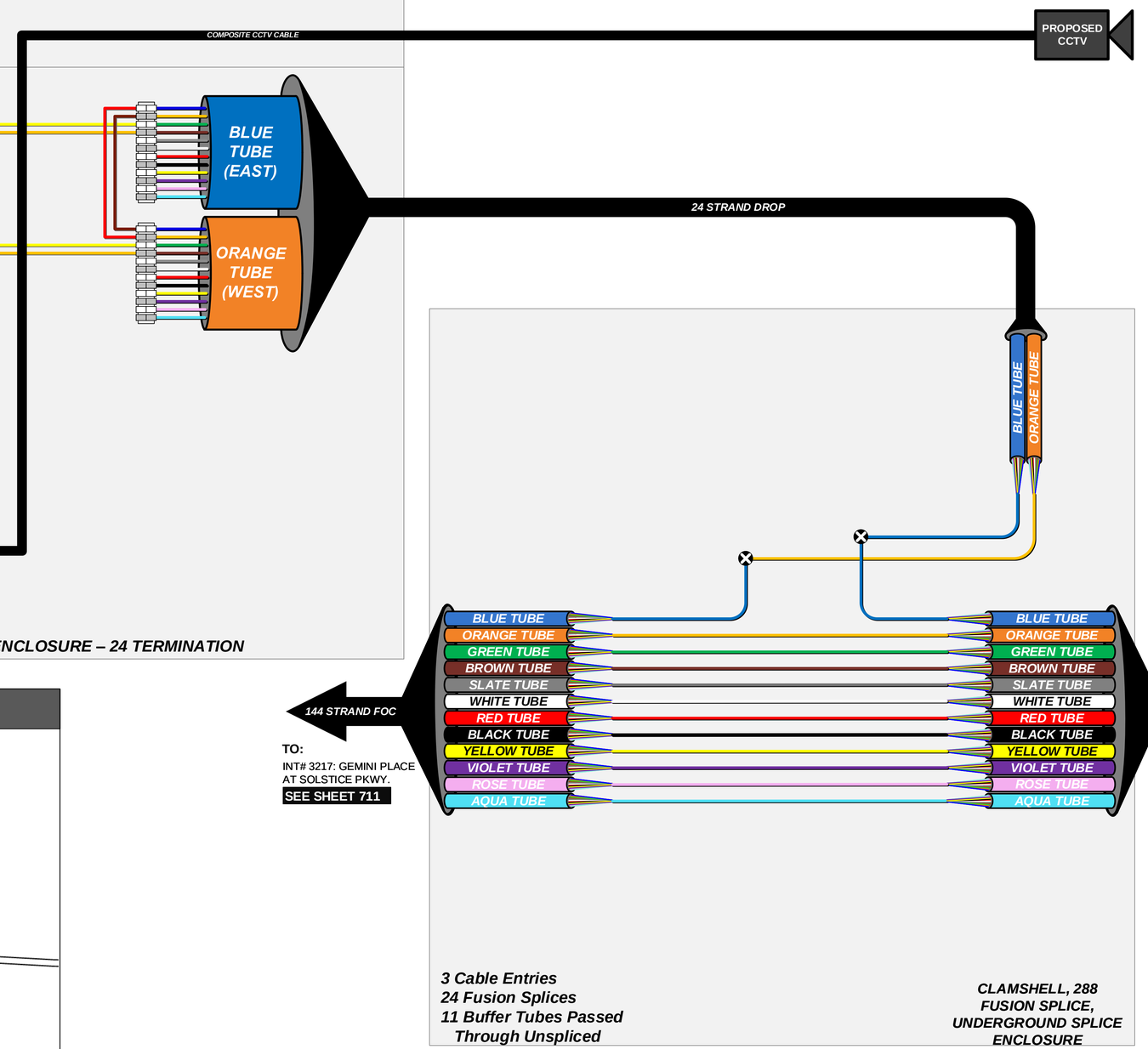
PORT 6: INT# 3217: GEMINI PLACE AT SOLSTICE PKWY.
SEE SHEET 711







PATCH PANEL ENCLOSURE – 24 TERMINATION



TO:
INT# 3217: GEMINI PLACE AT SOLSTICE PKWY.
SEE SHEET 711

TO:
INT# 3214: GEMINI PLACE AT I-71 SB
SEE SHEET 713

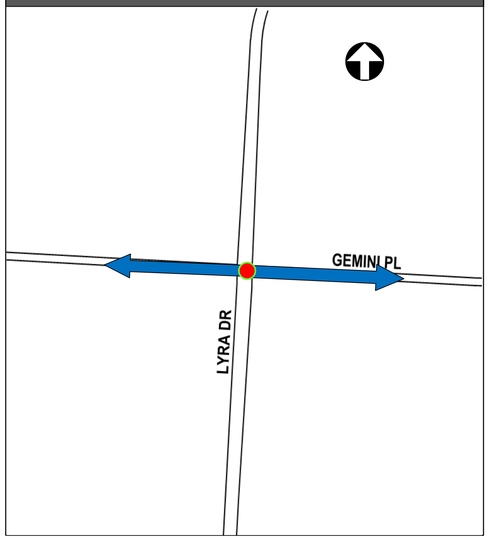
3 Cable Entries
24 Fusion Splices
11 Buffer Tubes Passed Through Unspliced

CLAMSHELL, 288 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 3213
REFER TO SHEET 408 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 618 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100012
PID NUMBER: 99733

INT# 3213: GEMINI PLACE AT LYRA DR.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

712
915

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TRAFFIC SIGNAL CABINET ASSEMBLY

ETHERNET SWITCH – LAYER 2

Ports 1 2 3 4 5 6 7 8 (5 LH T R, 6 LH T R)

TRAFFIC SIGNAL CONTROLLER
Ex. Econolite ASC/3-2100

Ethernet Module
10/100 Mbs

ETHERNET SWITCH PORT DESTINATION

PORT 5: PROPOSED COMMUNICATION NODE# 071121.8: GEMINI PL. AT I-71
SEE SHEET 872

PORT 6: INT# 3217: GEMINI PLACE AT SOLSTICE PKWY.
SEE SHEET 711

BLUE TUBE (SOUTH)

ORANGE TUBE (WEST)

24 STRAND DROP

BLUE TUBE
ORANGE TUBE

BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE
RED TUBE
BLACK TUBE
YELLOW TUBE
VIOLET TUBE
ROSE TUBE
AQUA TUBE

144 STRAND FOC

TO:
INT# 3213: GEMINI PLACE AT LYRA DR.
SEE SHEET 712

3 Cable Entries
24 Fusion Splices
11 Buffer Tubes Passed Through Unspliced

CLAMSHELL, 288 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE

144 STRAND FOC

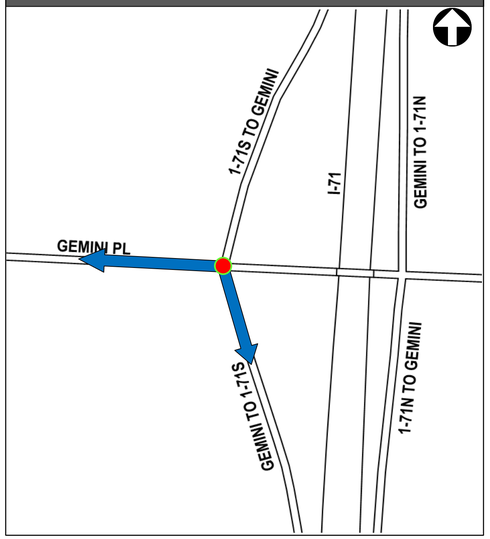
TO:
PROPOSED COMMUNICATION NODE# 071121.8: GEMINI PL. AT I-71
SEE SHEET 873

PATCH PANEL ENCLOSURE – 24 TERMINATION

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- LH/ZX (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 3214

REFER TO SHEET 409 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 618 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100012
PID NUMBER: 99733

INT# 3214: GEMINI PLACE AT I-71 SB
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

713
915

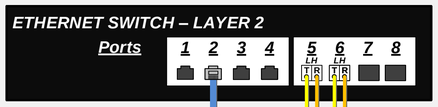
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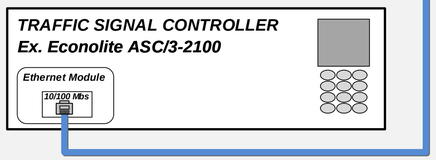
TRAFFIC SIGNAL CABINET ASSEMBLY

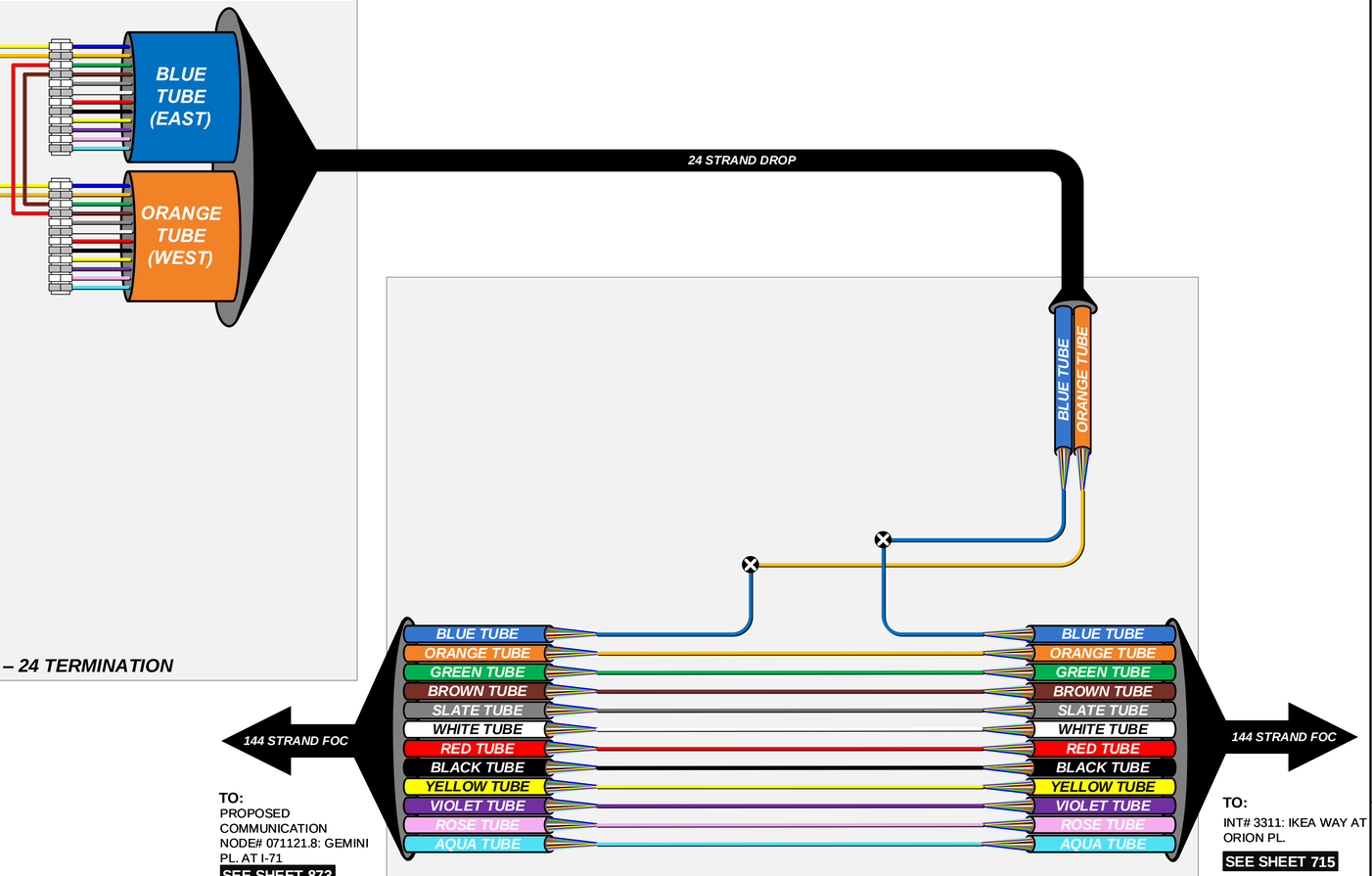
ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 3312: IKEA WAY AT ROAD A
SEE SHEET 716

PORT 6: PROPOSED COMMUNICATION NODE# 071121.8: GEMINI PL. AT I-71
SEE SHEET 872







TO:
PROPOSED COMMUNICATION NODE# 071121.8: GEMINI PL. AT I-71
SEE SHEET 873

TO:
INT# 3311: IKEA WAY AT ORION PL.
SEE SHEET 715

PATCH PANEL ENCLOSURE – 24 TERMINATION

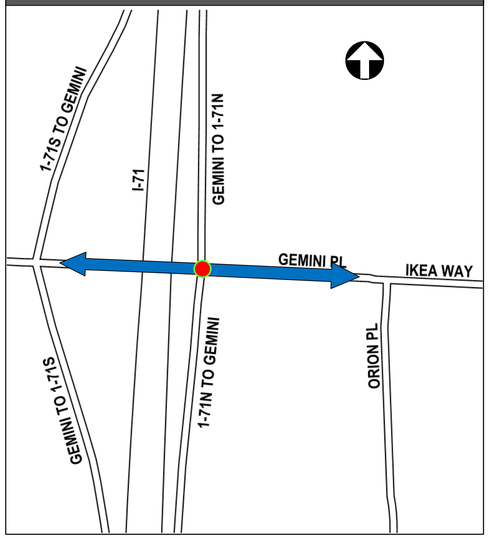
3 Cable Entries
24 Fusion Splices
11 Buffer Tubes Passed Through Unspliced

CLAMSHELL, 288 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- LH/ZX T R GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 3215
REFER TO SHEET 409 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 618 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100012
PID NUMBER: 99733

INT# 3215: GEMINI PLACE AT I-71 NB
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

714
915

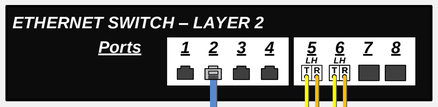
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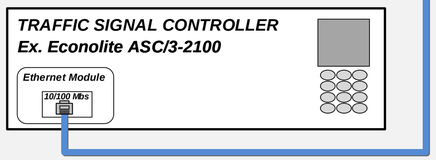
TRAFFIC SIGNAL CABINET ASSEMBLY

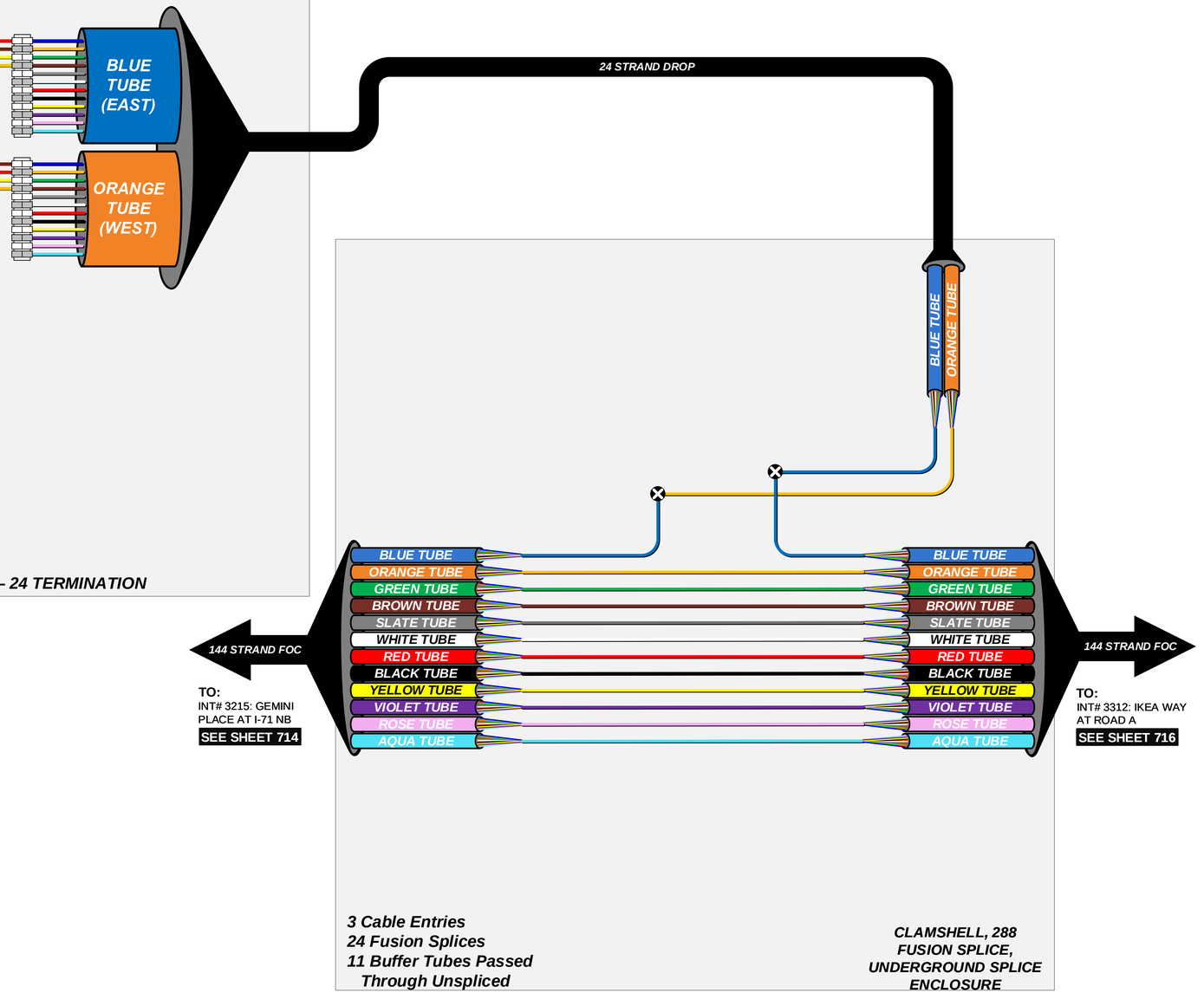
ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 3313: IKEA WAY AT WORTHINGTON RD.
SEE SHEET 717

PORT 6: INT# 3213: GEMINI PLACE AT LYRA DR.
SEE SHEET 712







TO:
INT# 3215: GEMINI PLACE AT I-71 NB
SEE SHEET 714

TO:
INT# 3312: IKEA WAY AT ROAD A
SEE SHEET 716

PATCH PANEL ENCLOSURE – 24 TERMINATION

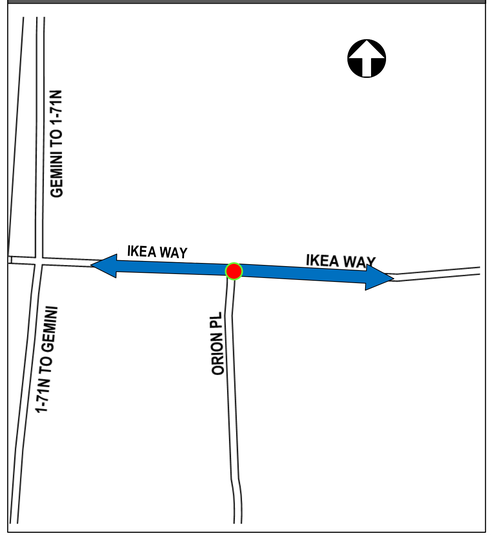
3 Cable Entries
24 Fusion Splices
11 Buffer Tubes Passed Through Unspliced

CLAMSHELL, 288 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- LH/ZX (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 3311
REFER TO SHEET 410 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 618 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100012
PID NUMBER: 99733

INT# 3311: IKEA WAY AT ORION PL.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

715
915

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TRAFFIC SIGNAL CABINET ASSEMBLY

ETHERNET SWITCH – LAYER 2

Ports 1 2 3 4 5 (LH T R) 6 (LH T R) 7 8

TRAFFIC SIGNAL CONTROLLER
Ex. Econolite ASC/3-2100

Ethernet Module
10/100 Mbs

ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 3313: IKEA WAY AT WORTHINGTON RD.
SEE SHEET 717

PORT 6: INT# 3215: GEMINI PLACE AT I-71 NB
SEE SHEET 714

PATCH PANEL ENCLOSURE – 24 TERMINATION

BLUE TUBE (EAST)

ORANGE TUBE (WEST)

24 STRAND DROP

BLUE TUBE

ORANGE TUBE

BLUE TUBE	BLUE TUBE
ORANGE TUBE	ORANGE TUBE
GREEN TUBE	GREEN TUBE
BROWN TUBE	BROWN TUBE
SLATE TUBE	SLATE TUBE
WHITE TUBE	WHITE TUBE
RED TUBE	RED TUBE
BLACK TUBE	BLACK TUBE
YELLOW TUBE	YELLOW TUBE
VIOLET TUBE	VIOLET TUBE
ROSE TUBE	ROSE TUBE
AQUA TUBE	AQUA TUBE

144 STRAND FOC

TO:
INT# 3311: IKEA WAY AT ORION PL.
SEE SHEET 715

144 STRAND FOC

TO:
INT# 3313: IKEA WAY AT WORTHINGTON RD.
SEE SHEET 717

3 Cable Entries
24 Fusion Splices
11 Buffer Tubes Passed Through Unspliced

CLAMSHELL, 288 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- LH/ZX (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN

IKEA WAY

INTERSECTION 3312

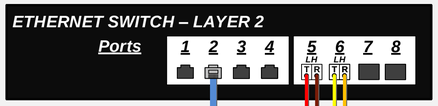
REFER TO SHEET 412 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 618 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100012
PID NUMBER: 99733

INT# 3312: IKEA WAY AT ROAD A
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

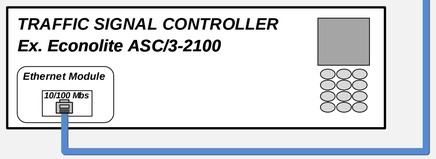
TRAFFIC SIGNAL CABINET ASSEMBLY

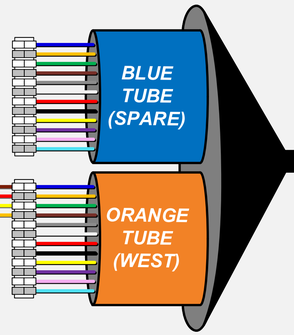


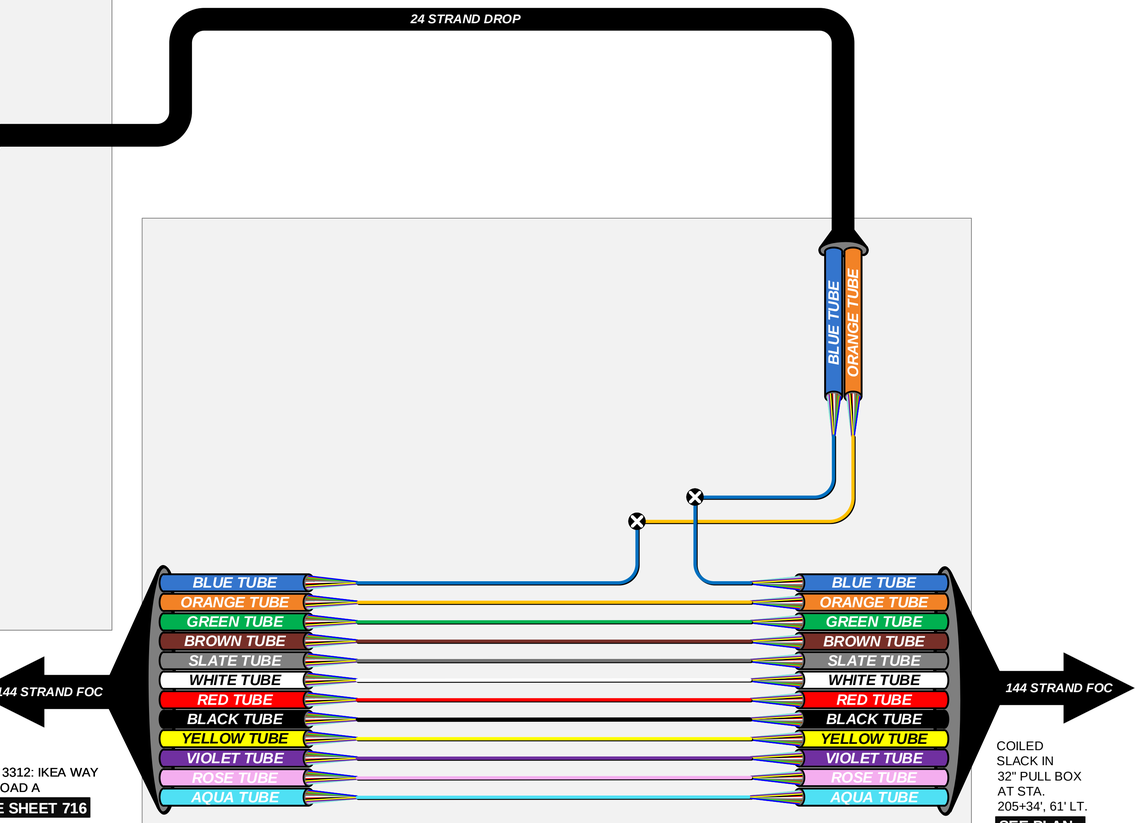
ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 3312: IKEA WAY AT ROAD A
SEE SHEET 716

PORT 6: INT# 3311: IKEA WAY AT ORION PL.
SEE SHEET 715







TO:
INT# 3312: IKEA WAY
AT ROAD A
SEE SHEET 716

COILED
SLACK IN
32" PULL BOX
AT STA.
205+34', 61' LT.
SEE PLAN SHEET 414

PATCH PANEL ENCLOSURE – 24 TERMINATION

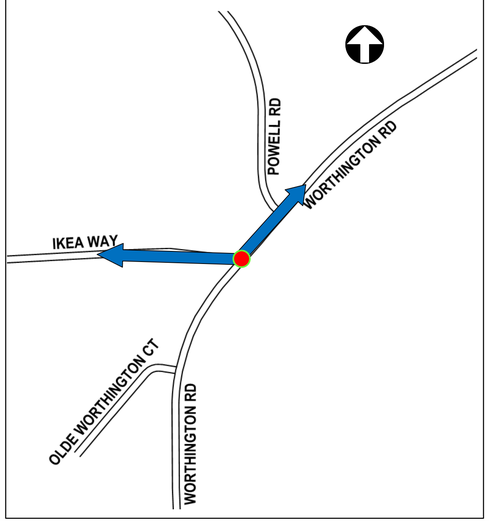
3 Cable Entries
24 Fusion Splices
11 Buffer Tubes Passed Through Unspliced

CLAMSHELL, 288 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- LH/ZX (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 3313

REFER TO SHEET 414 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 618 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100012
PID NUMBER: 99733

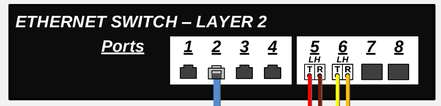
INT# 3313: IKEA WAY AT WORTHINGTON RD.
COMMUNICATIONS DIAGRAM

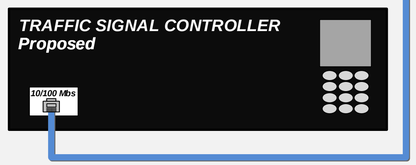
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

717
915

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TRAFFIC SIGNAL CABINET ASSEMBLY

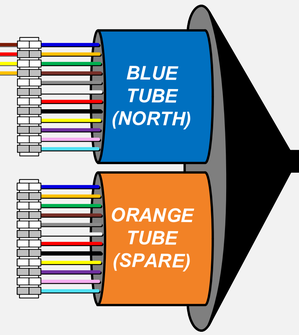




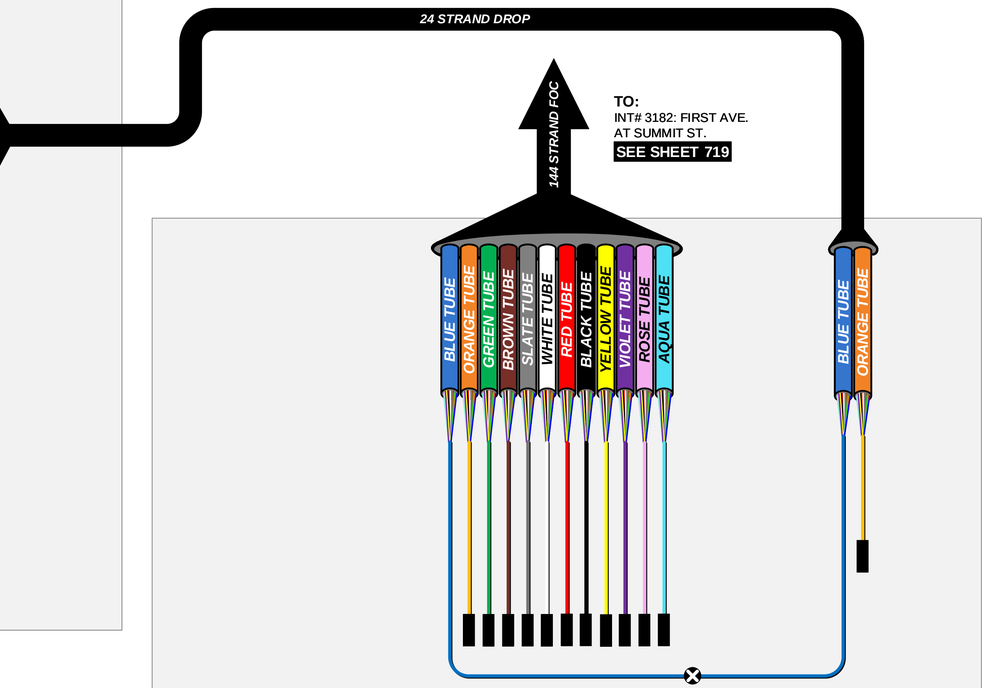
ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 3182: FIRST AVE. AT SUMMIT ST.
SEE SHEET 719

PORT 6: INT# 3185: SEVENTH AVE. AT SUMMIT ST.
SEE SHEET 725



PATCH PANEL ENCLOSURE – 24 TERMINATION



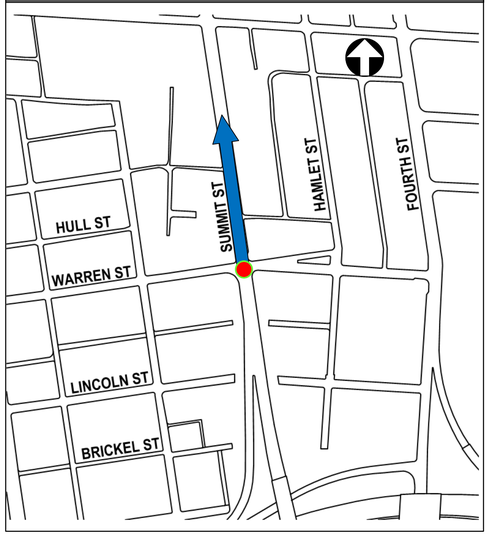
2 Cable Entries
12 Fusion Splices
12 Coiled Buffer Tubes

CLAMSHELL, 288 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- LH/ZX (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 3181

REFER TO SHEET 422 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 619 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100012
PID NUMBER: 99733

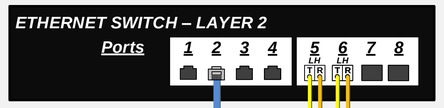
INT# 3181: SUMMIT ST. AT WARREN ST.
COMMUNICATIONS DIAGRAM

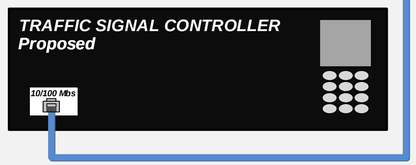
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

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915

J:\Jobs\63721 CTSS Phase E\TECHPROD\Communications\Intersection Splicing Details\702-722.vsd - 3181 layout ~ last saved by: skoganti 9/13/2018 4:51:11 PM ~ printed: 9/13/2018 4:51:11 PM

TRAFFIC SIGNAL CABINET ASSEMBLY

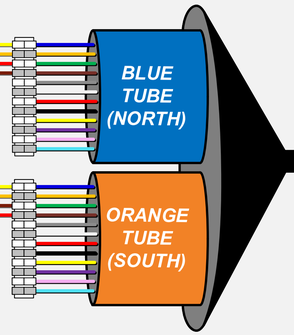


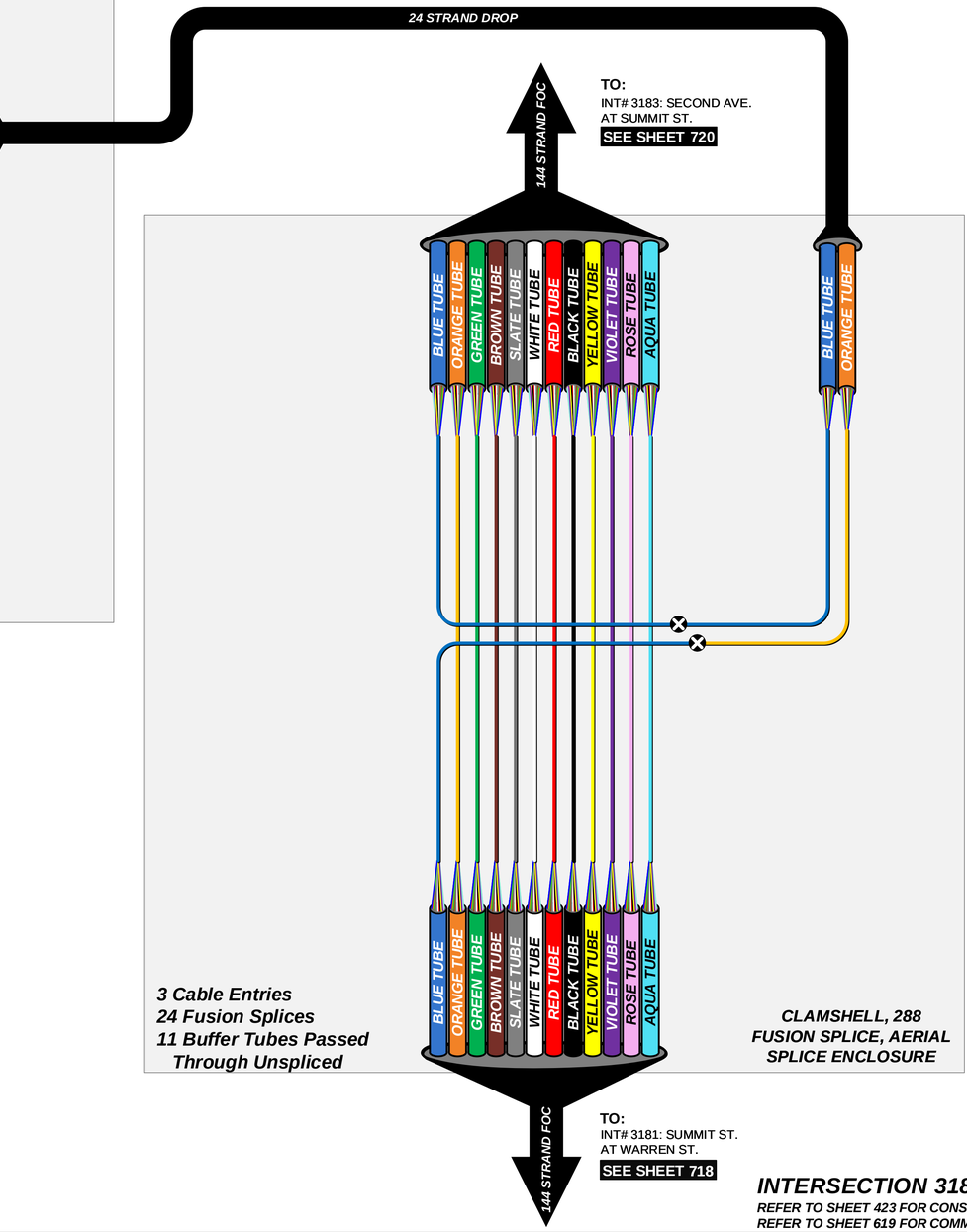


ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 3184: FIFTH AVE. AT SUMMIT ST.
SEE SHEET 724

PORT 6: INT# 3181: SUMMIT ST. AT WARREN ST.
SEE SHEET 718



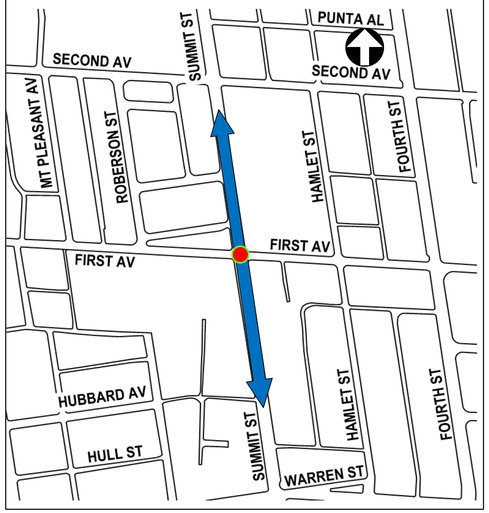


PATCH PANEL ENCLOSURE – 24 TERMINATION

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- LH/ZX T R — GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 3182

REFER TO SHEET 423 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 619 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100012
PID NUMBER: 99733

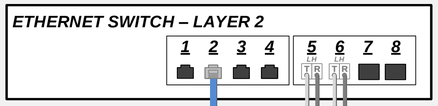
INT# 3182: FIRST AVE. AT SUMMIT ST.
COMMUNICATIONS DIAGRAM

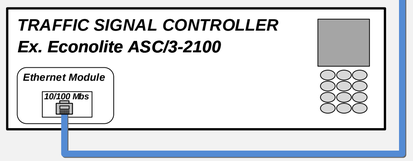
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

719
915

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TRAFFIC SIGNAL CABINET ASSEMBLY

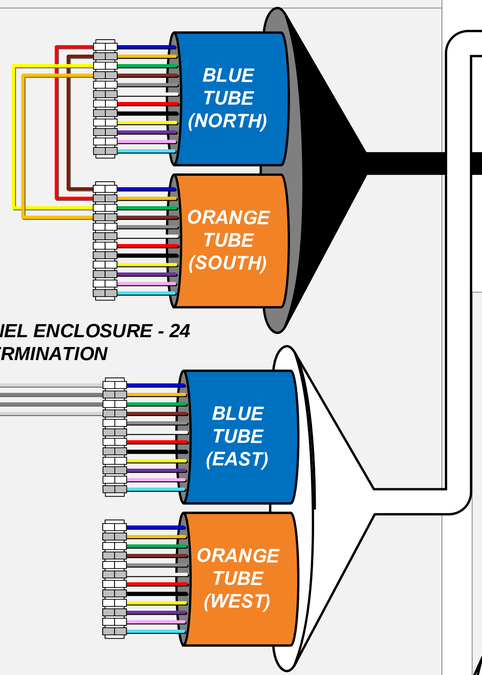




ETHERNET SWITCH PORT DESTINATION

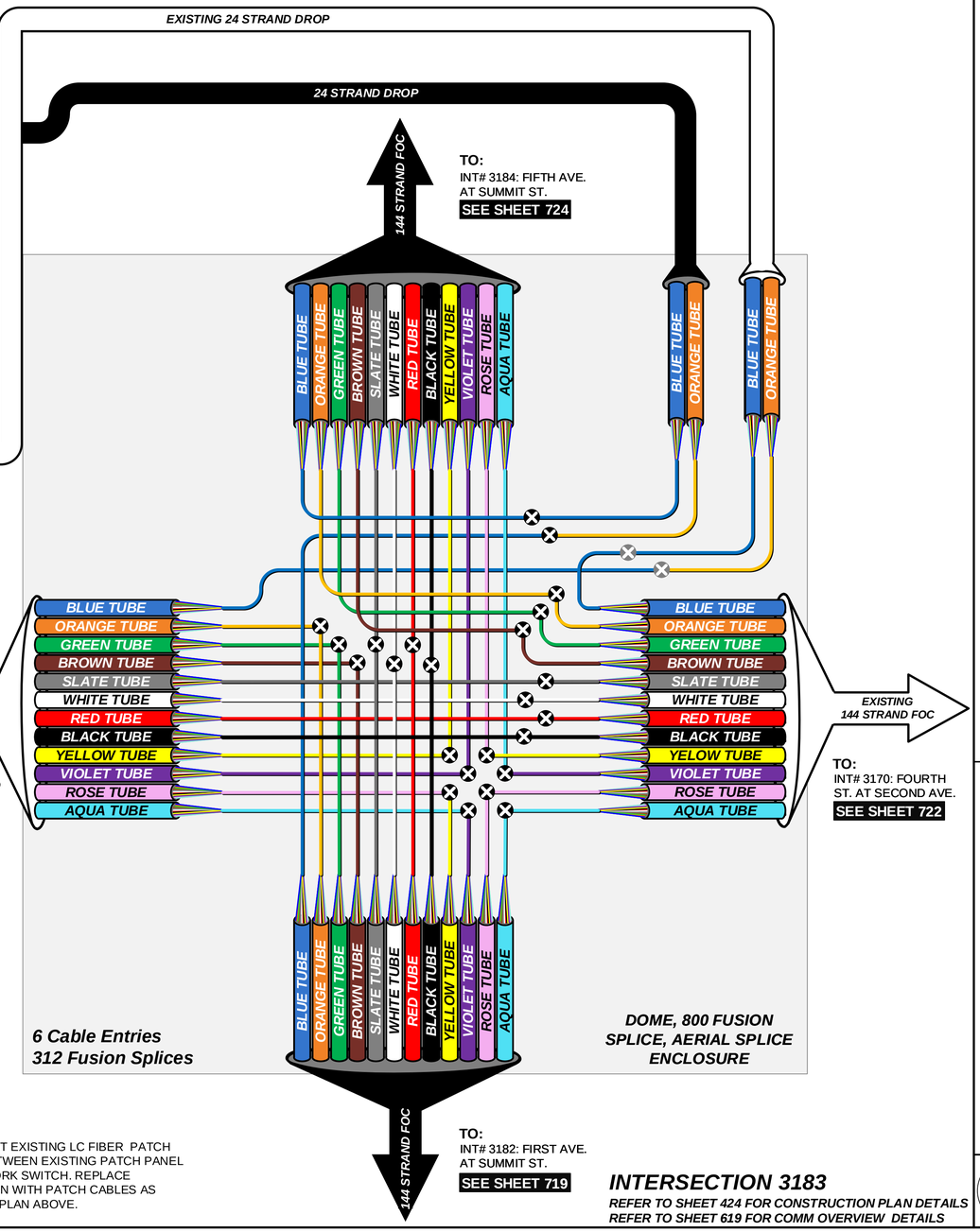
PORT 5: EXISTING CONNECTION – INT# 3012: FIFTH AVE. AT CLEVELAND AVE.

PORT 6: EXISTING CONNECTION – INT# 3010: SECOND AVE. AT CLEVELAND AVE.



PATCH PANEL ENCLOSURE - 24 TERMINATION

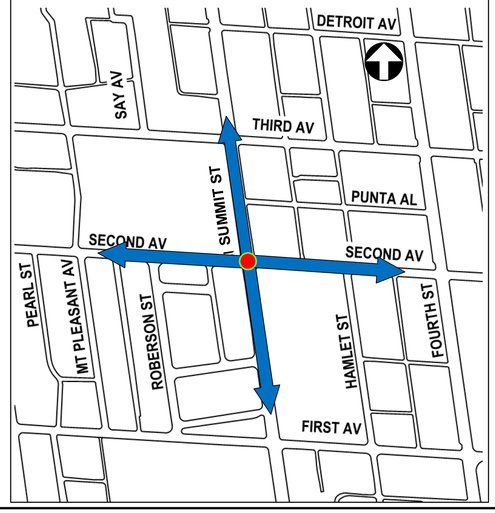
EXISTING PATCH PANEL ENCLOSURE - 24 TERMINATION



LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



NOTES:
DISCONNECT EXISTING LC FIBER PATCH CABLES BETWEEN EXISTING PATCH PANEL AND NETWORK SWITCH. REPLACE CONNECTION WITH PATCH CABLES AS SHOWN ON PLAN ABOVE.

INTERSECTION 3183

REFER TO SHEET 424 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 619 FOR COMM OVERVIEW DETAILS

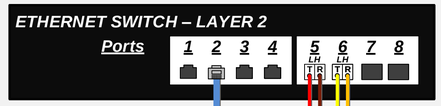
CIP: 540007 - 100012
PID NUMBER: 99733

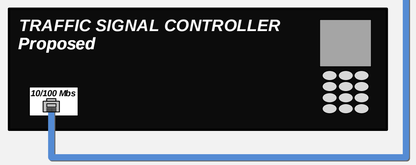
INT# 3183: SECOND AVE. AT SUMMIT ST.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

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TRAFFIC SIGNAL CABINET ASSEMBLY

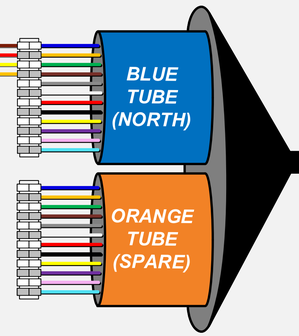




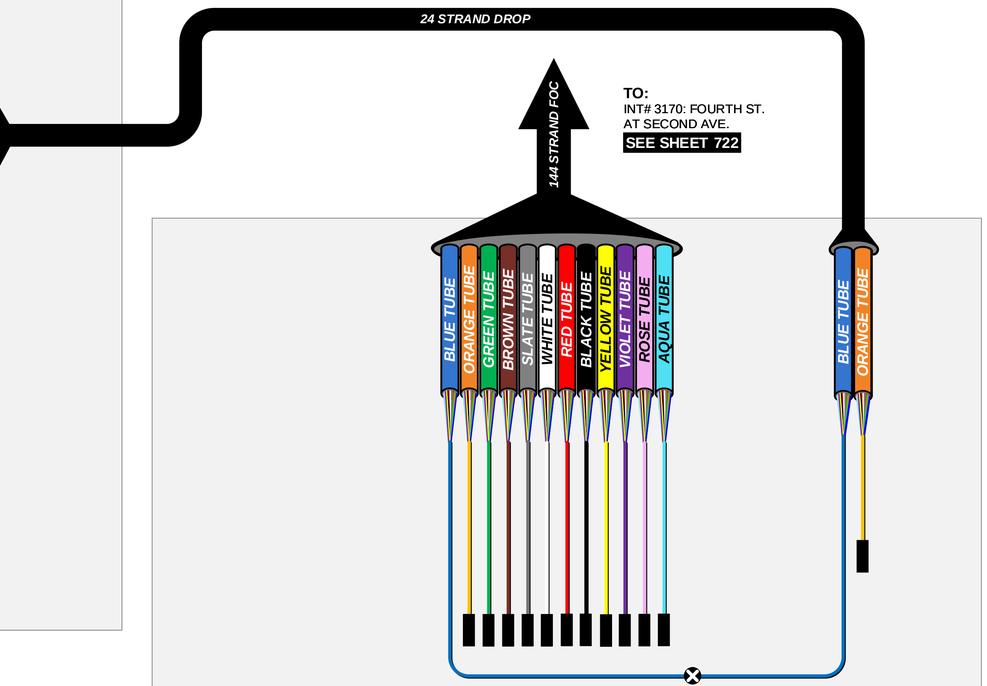
ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 3170: FOURTH ST. AT SECOND AVE.
SEE SHEET 722

PORT 6: INT# 3171: FIFTH ST. AT FOURTH ST.
SEE SHEET 735



PATCH PANEL ENCLOSURE – 24 TERMINATION



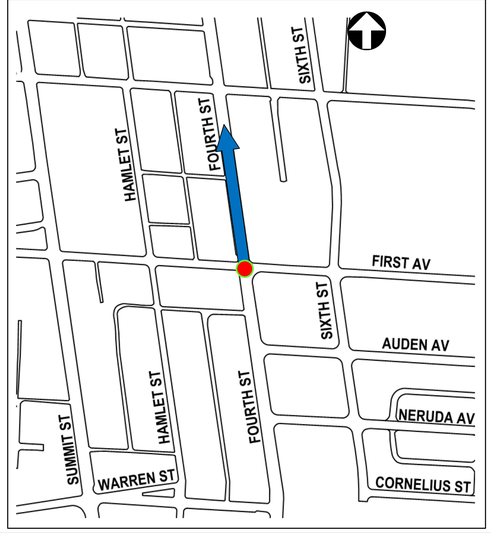
2 Cable Entries
12 Fusion Splices
12 Coiled Buffer Tubes

CLAMSHELL, 288
FUSION SPLICE, AERIAL
SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- *LH/ZX* GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 3169
REFER TO SHEET 436 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 619 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100012
PID NUMBER: 99733

INT# 3169: FIRST AVE. AT FOURTH ST.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

721
915

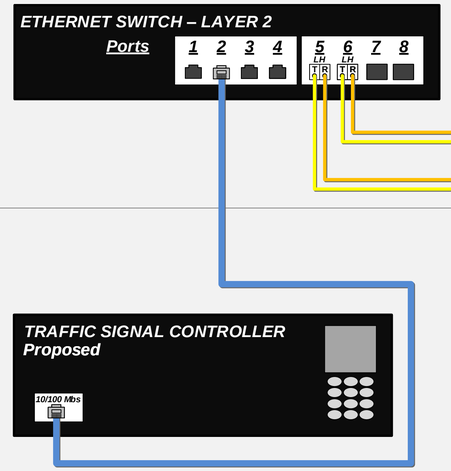
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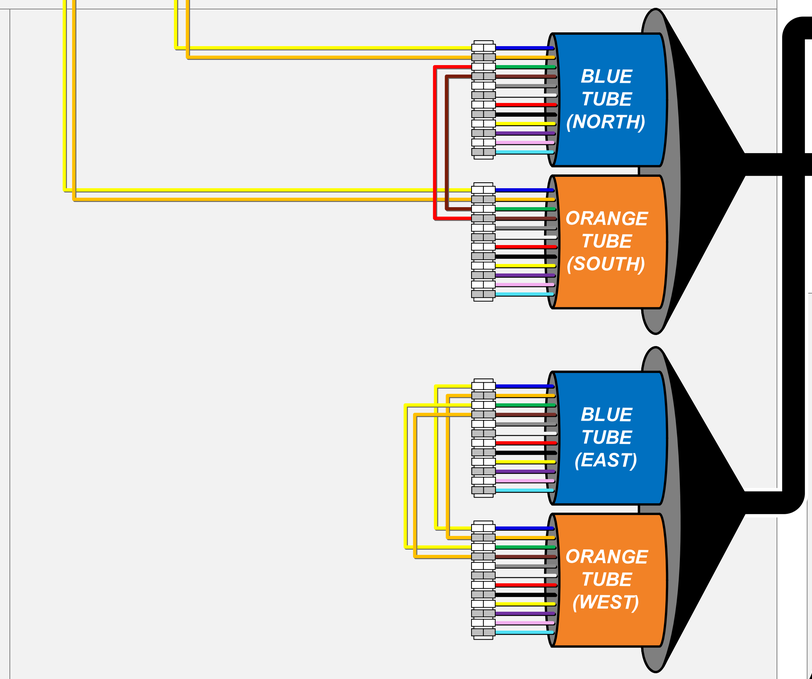
TRAFFIC SIGNAL CABINET ASSEMBLY

ETHERNET SWITCH PORT DESTINATION

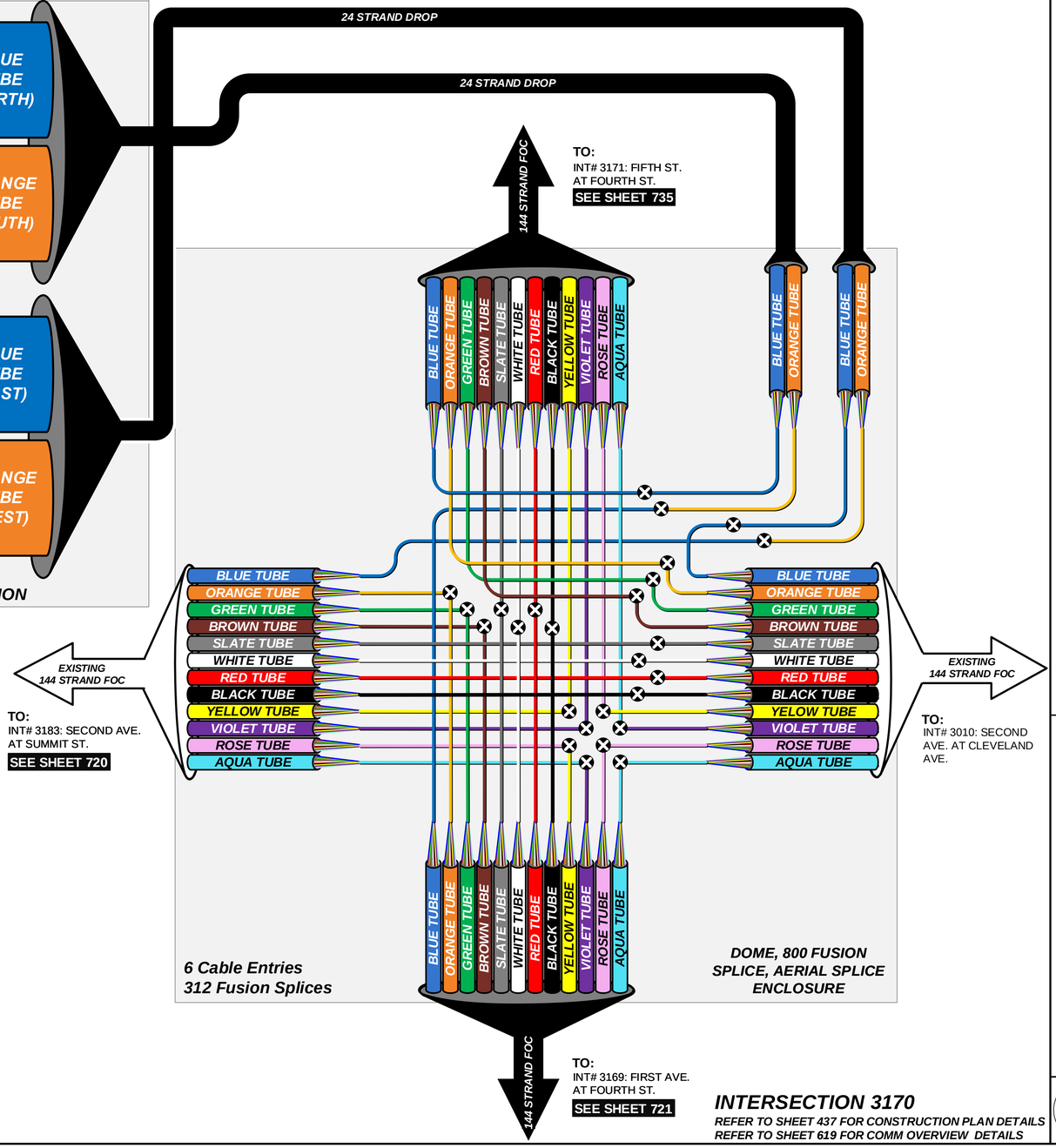
PORT 5: INT# 3172: FOURTH ST. AT SEVENTH AVE.
SEE SHEET 736

PORT 6: INT# 3169: FIRST AVE. AT FOURTH ST.
SEE SHEET 721





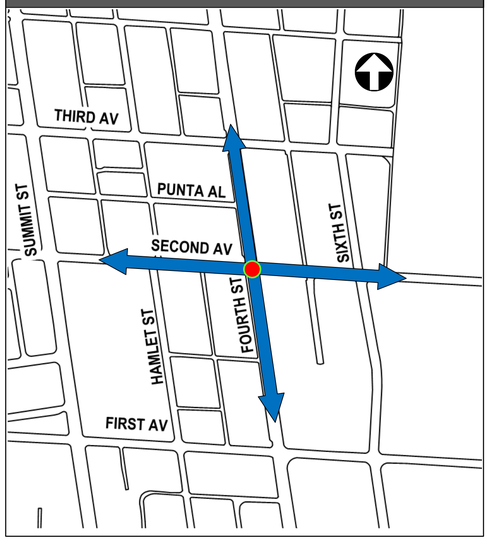
PATCH PANEL ENCLOSURES: (2) - 24 TERMINATION



LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- LH/ZX – GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 3170

REFER TO SHEET 437 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 619 FOR COMM OVERVIEW DETAILS

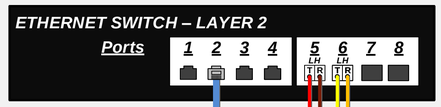
CIP: 540007 - 100012
PID NUMBER: 99733

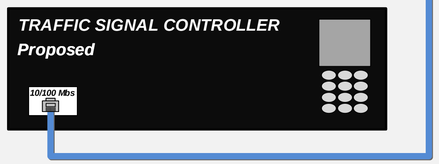
INT# 3170: FOURTH ST. AT SECOND AVE.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

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TRAFFIC SIGNAL CABINET ASSEMBLY

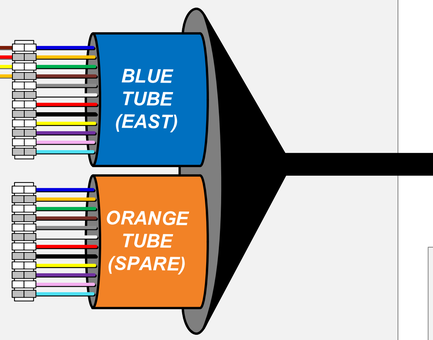




ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 3185: SEVENTH AVE. AT SUMMIT ST.
SEE SHEET 725

PORT 6: INT# 3187: CHITTENDEN AVE. AT SUMMIT ST.
SEE SHEET 727



2 Cable Entries
12 Fusion Splices
12 Coiled Buffer Tubes

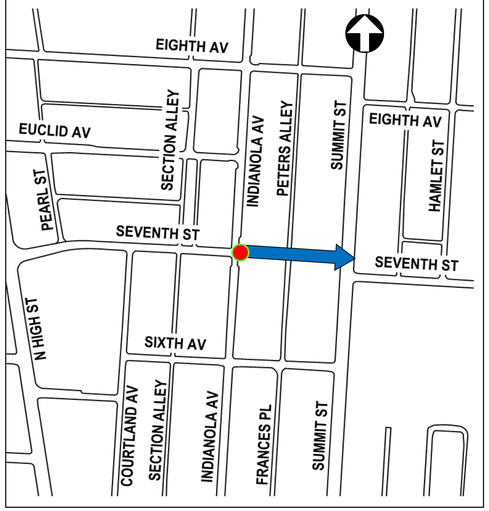
CLAMSHELL, 288 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

PATCH PANEL ENCLOSURE – 24 TERMINATION

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- LH/ZX (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 3194

REFER TO SHEET 452 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 619 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100012
PID NUMBER: 99733

INT# 3194: INDIANOLA AVE. AT SEVENTH AVE.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

723
915

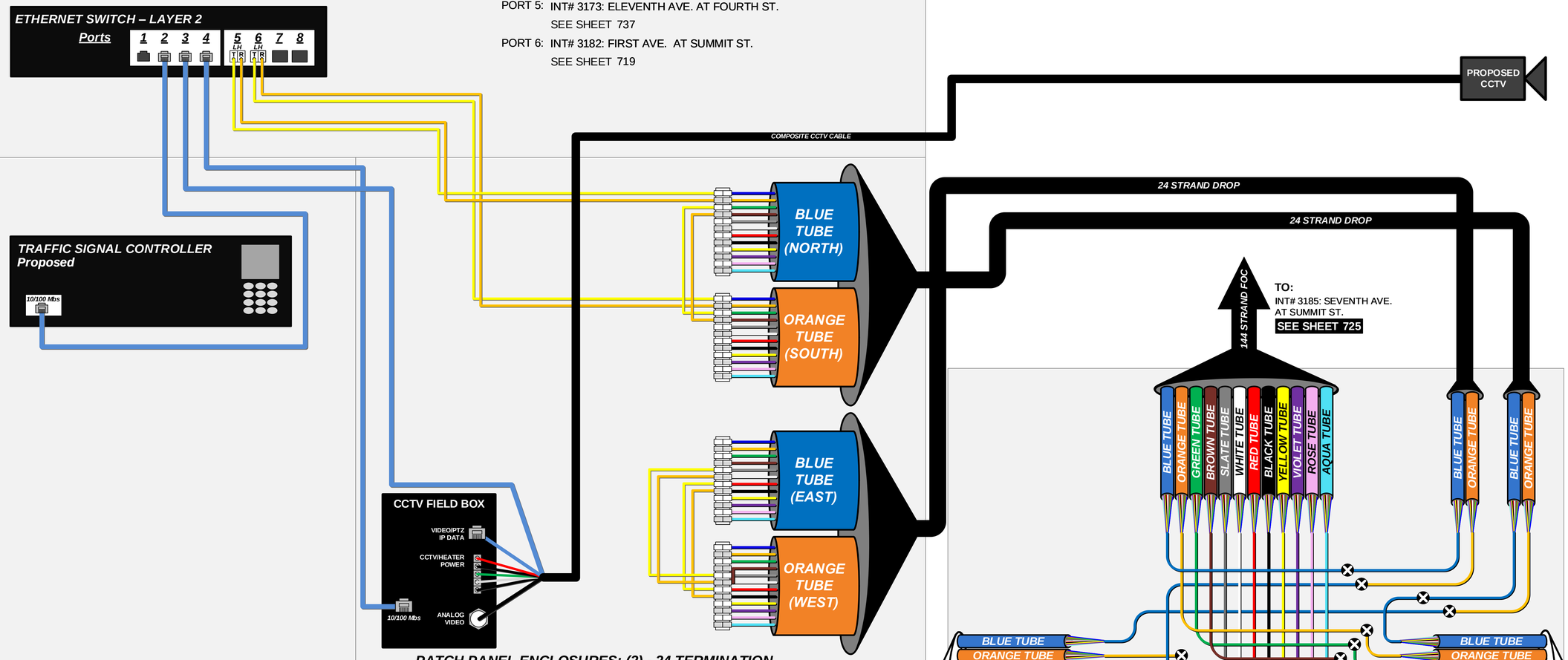
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TRAFFIC SIGNAL CABINET ASSEMBLY

ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 3173: ELEVENTH AVE. AT FOURTH ST.
SEE SHEET 737

PORT 6: INT# 3182: FIRST AVE. AT SUMMIT ST.
SEE SHEET 719

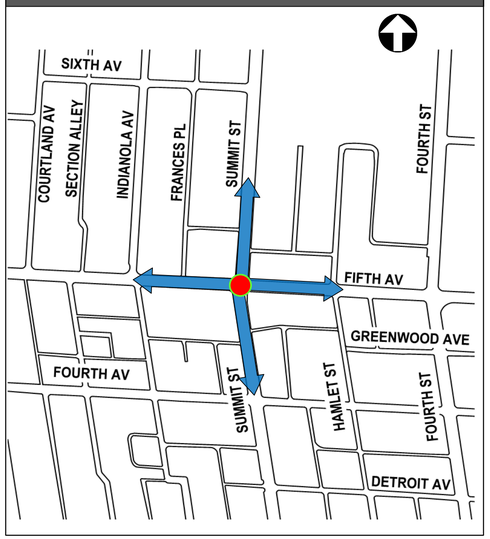


PATCH PANEL ENCLOSURES: (2) - 24 TERMINATION

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- LH/ZX — GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 3184

REFER TO SHEET 427 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 619 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100012
PID NUMBER: 99733

INT# 3184: FIFTH AVE. AT SUMMIT ST.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

724
915

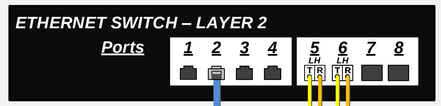
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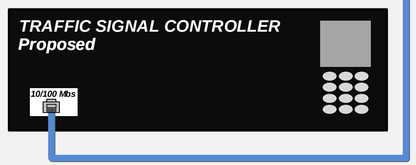
TRAFFIC SIGNAL CABINET ASSEMBLY

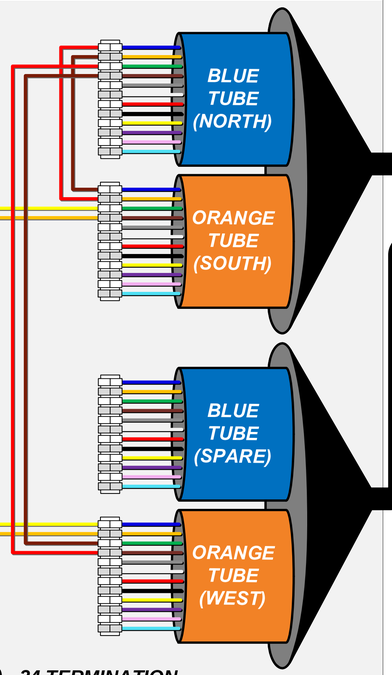
ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 3181: SUMMIT ST. AT WARREN ST.
SEE SHEET 718

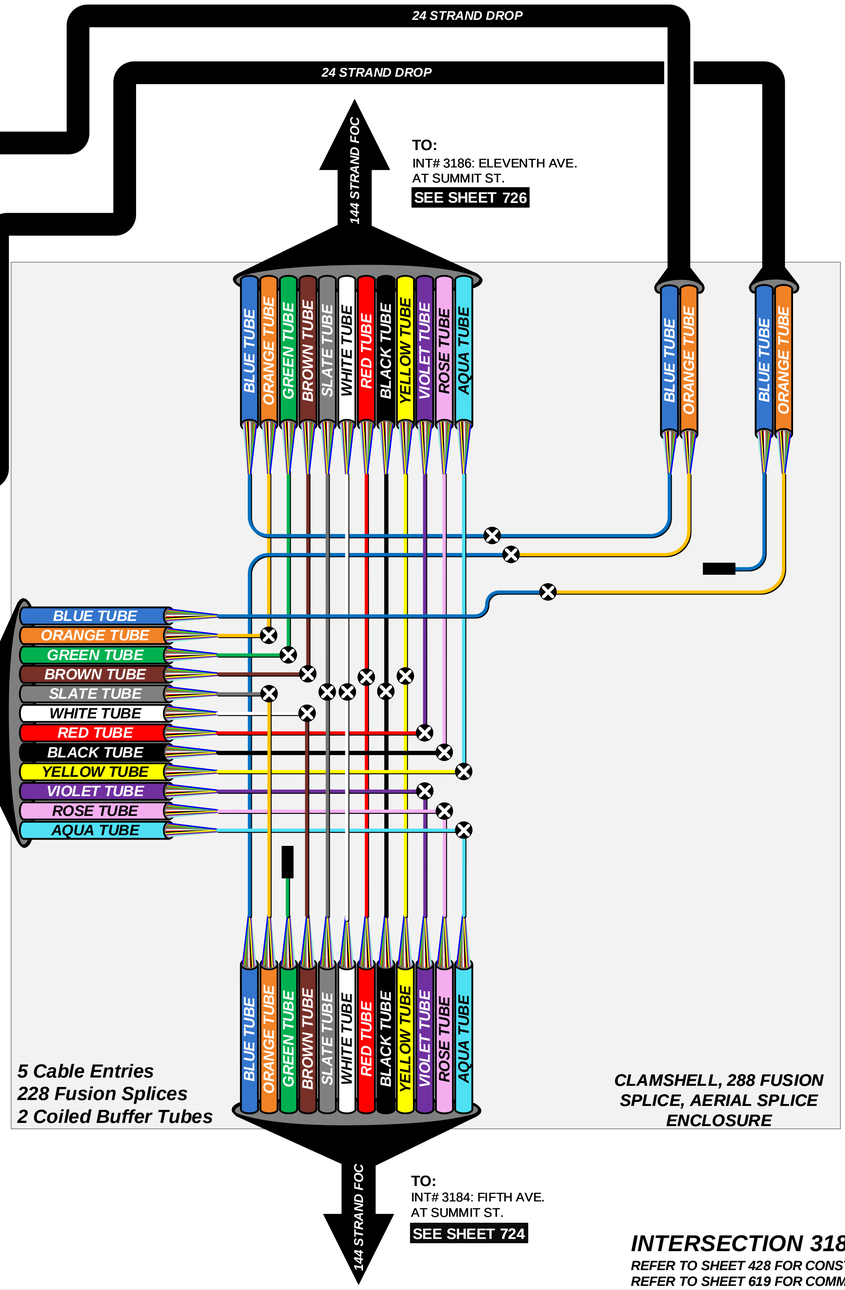
PORT 6: INT# 3194: INDIANOLA AVE. AT SEVENTH AVE.
SEE SHEET 723







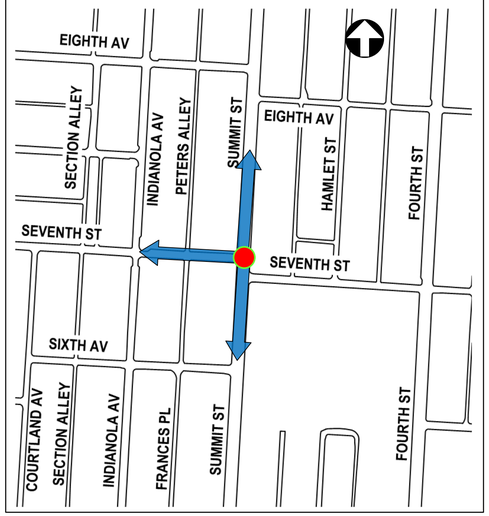
PATCH PANEL ENCLOSURES: (2) - 24 TERMINATION



LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 3185

REFER TO SHEET 428 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 619 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100012
PID NUMBER: 99733

INT# 3185: SEVENTH AVE. AT SUMMIT ST.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

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TRAFFIC SIGNAL CABINET ASSEMBLY

ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 3188: SUMMIT ST. AT TWELFTH AVE.
SEE SHEET 728

PORT 6: INT# 3180: ELEVENTH AVE. AT GRANT AVE.
SEE SHEET 734

ETHERNET SWITCH – LAYER 2

Ports 1 2 3 4 5 6 7 8 (5 LH T R, 6 LH T R)

TRAFFIC SIGNAL CONTROLLER
Ex. Econolite ASC/3-2100

Ethernet Module — *10/100 Mbs*

CCTV FIELD BOX

- VIDEO/PTZ IP DATA
- CCTV/HEATER POWER
- *10/100 Mbs*
- ANALOG VIDEO

COMPOSITE CCTV CABLE

PROPOSED CCTV

24 STRAND DROP

24 STRAND DROP

144 STRAND FOC

TO:
INT# 3187: CHITTENDEN AVE. AT SUMMIT ST.
SEE SHEET 727

BLUE TUBE (NORTH)

ORANGE TUBE (SOUTH)

BLUE TUBE (EAST)

ORANGE TUBE (SPARE)

PATCH PANEL ENCLOSURES: (2) - 24 TERMINATION

BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE
RED TUBE
BLACK TUBE
YELLOW TUBE
VIOLET TUBE
ROSE TUBE
AQUA TUBE

BLUE TUBE
ORANGE TUBE

BLUE TUBE
ORANGE TUBE

144 STRAND FOC

TO:
INT# 3173: ELEVENTH AVE. AT FOURTH ST.
SEE SHEET 737

144 STRAND FOC

TO:
INT# 3185: SEVENTH AVE. AT SUMMIT ST.
SEE SHEET 725

5 Cable Entries
228 Fusion Splices
2 Coiled Buffer Tubes

CLAMSHELL, 288 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- *LH/ZX* (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 3186

REFER TO SHEET 429 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 619 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100012
PID NUMBER: 99733

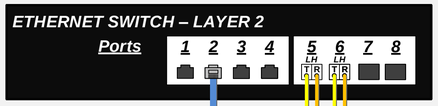
INT# 3186: ELEVENTH AVE. AT SUMMIT ST.
COMMUNICATIONS DIAGRAM

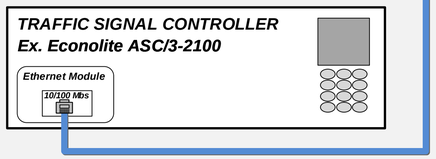
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

726
915

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TRAFFIC SIGNAL CABINET ASSEMBLY

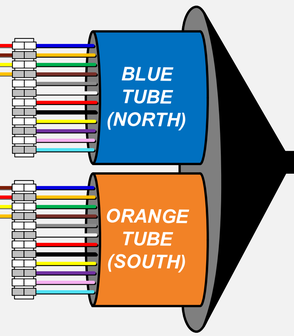




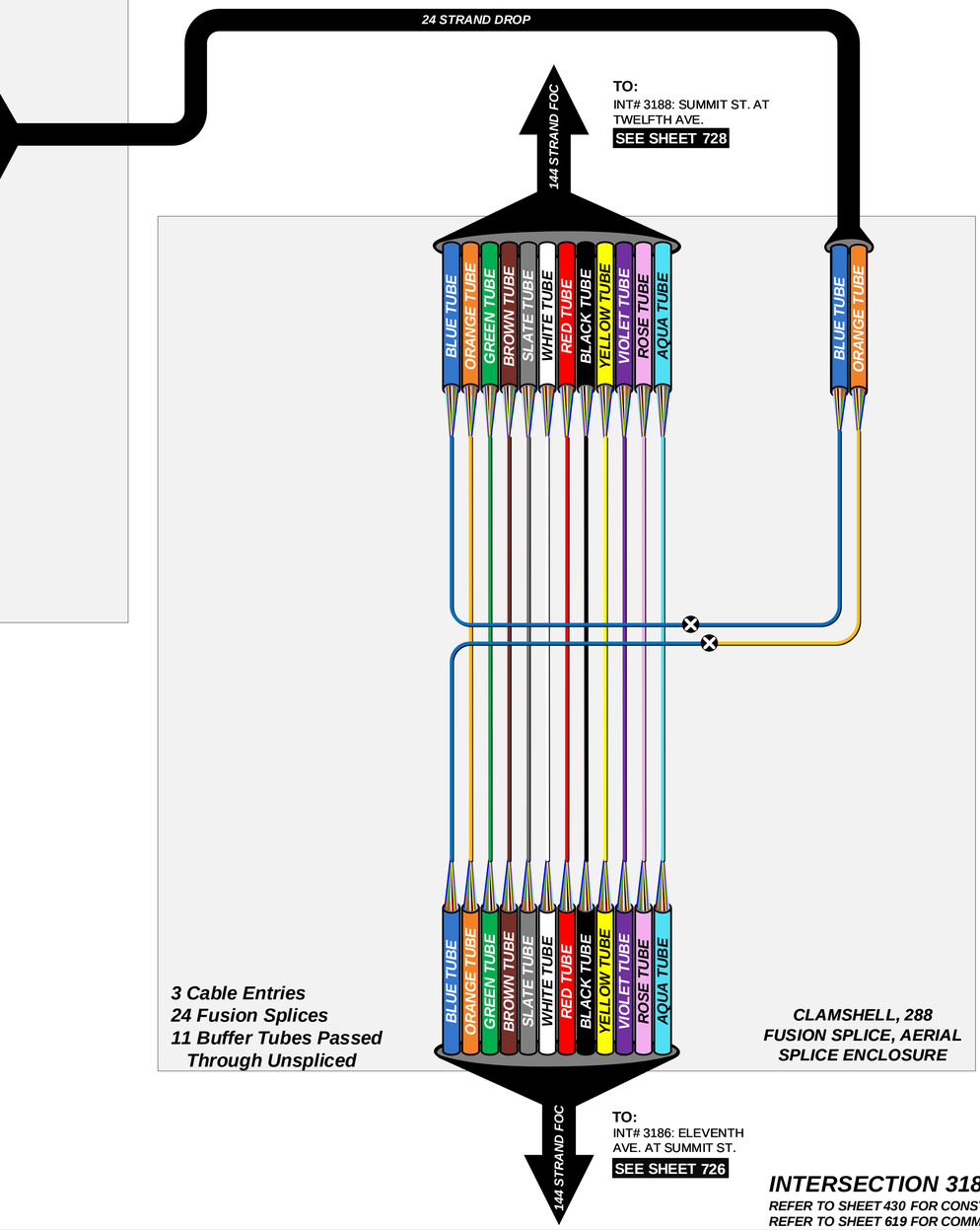
ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 3189: FIFTEENTH AVE. AT SUMMIT ST.
SEE SHEET 729

PORT 6: INT# 3194: INDIANOLA AVE. AT SEVENTH AVE.
SEE SHEET 723



PATCH PANEL ENCLOSURE – 24 TERMINATION



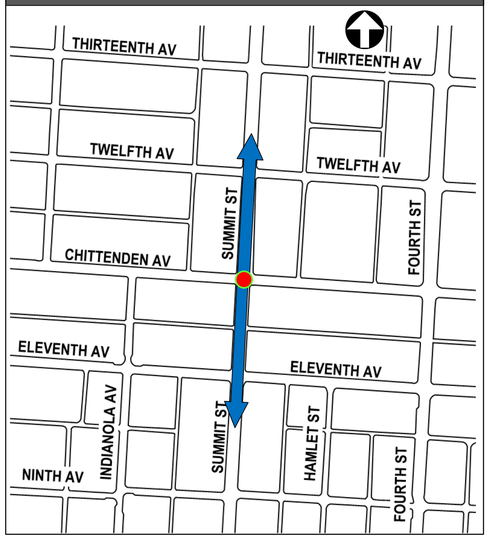
3 Cable Entries
24 Fusion Splices
11 Buffer Tubes Passed Through Unspliced

CLAMSHELL, 288 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- LH/ZX (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 3187

REFER TO SHEET 430 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 619 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100012
PID NUMBER: 99733

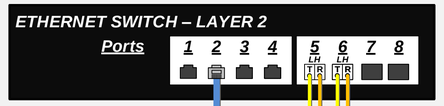
INT# 3187: CHITTENDEN AVE. AT SUMMIT ST.
COMMUNICATIONS DIAGRAM

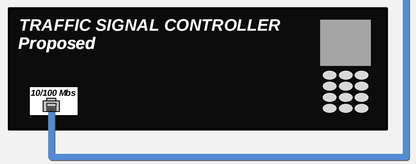
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

727
915

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TRAFFIC SIGNAL CABINET ASSEMBLY

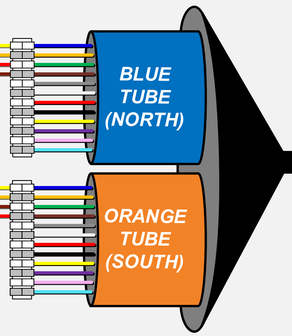




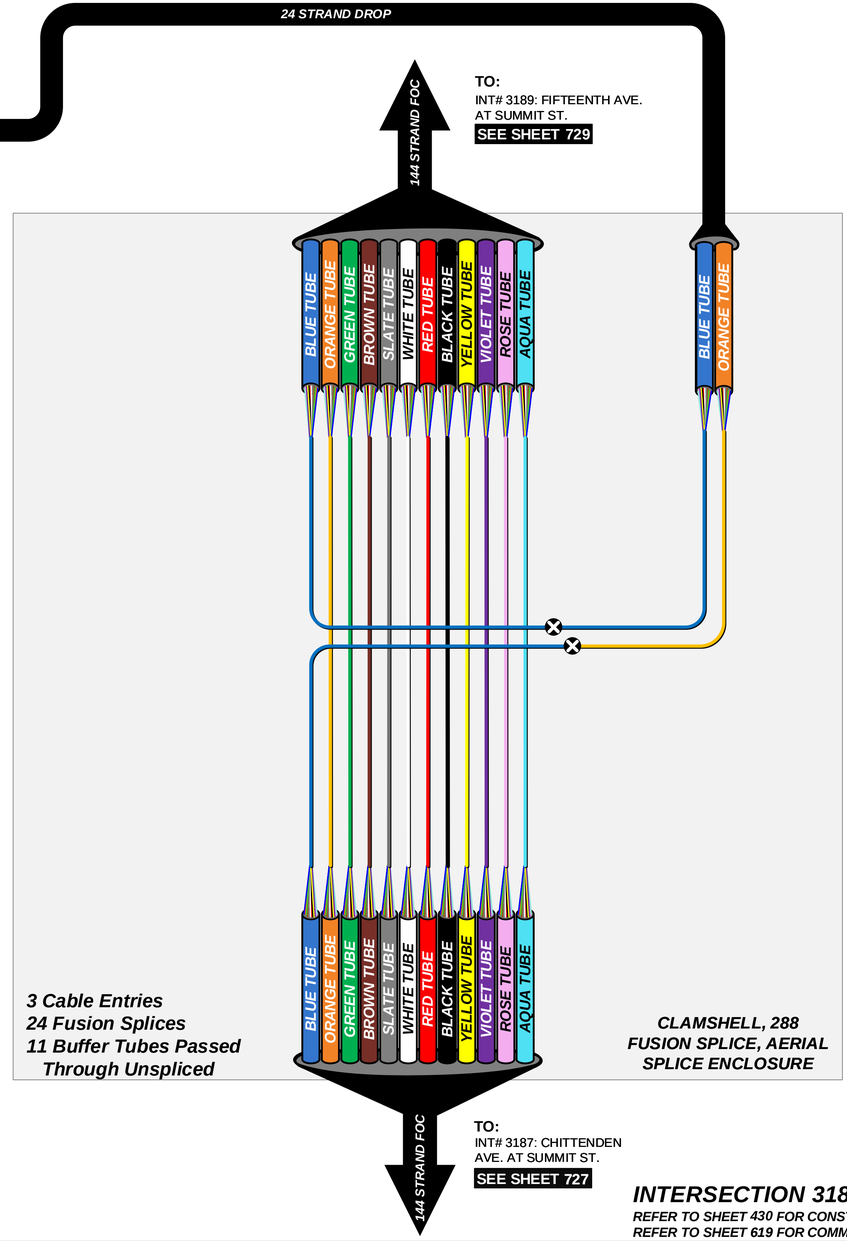
ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 3190: SEVENTEENTH AVE. AT SUMMIT ST.
SEE SHEET 730

PORT 6: INT# 3186: ELEVENTH AVE. AT SUMMIT ST.
SEE SHEET 726



PATCH PANEL ENCLOSURE – 24 TERMINATION



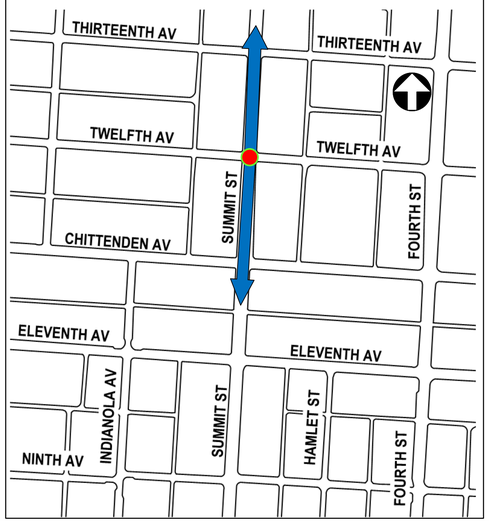
3 Cable Entries
24 Fusion Splices
11 Buffer Tubes Passed Through Unspliced

CLAMSHELL, 288 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- LH/ZX (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 3188

REFER TO SHEET 430 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 619 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100012
PID NUMBER: 99733

INT# 3188: SUMMIT ST. AT TWELFTH AVE.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

728
915

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TRAFFIC SIGNAL CABINET ASSEMBLY

ETHERNET SWITCH – LAYER 2

Ports: 1 2 3 4 5 (LH T R) 6 (LH T R) 7 8

TRAFFIC SIGNAL CONTROLLER
Ex. Econolite ASC/3-2100

Ethernet Module
10/100 Mbs

ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 3187: CHITTENDEN AVE. AT SUMMIT ST.
SEE SHEET 727

PORT 6: INT# 3195: FIFTEENTH AVE. AT INDIANOLA AVE.
SEE SHEET 733

BLUE TUBE (NORTH)
ORANGE TUBE (SOUTH)
BLUE TUBE (SPARE)
ORANGE TUBE (WEST)

PATCH PANEL ENCLOSURES: (2) - 24 TERMINATION

24 STRAND DROP
24 STRAND DROP

144 STRAND FOC

TO:
INT# 3190: SEVENTEENTH AVE. AT SUMMIT ST.
SEE SHEET 730

BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE
RED TUBE
BLACK TUBE
YELLOW TUBE
VIOLET TUBE
ROSE TUBE
AQUA TUBE

BLUE TUBE
ORANGE TUBE

BLUE TUBE
ORANGE TUBE

24 STRAND FOC
BLUE TUBE
ORANGE TUBE

TO:
INT# 3195: FIFTEENTH AVE. AT INDIANOLA AVE.
SEE SHEET 733

5 Cable Entries
48 Fusion Splices
2 Coiled Buffer Tubes
10 Buffer Tubes Passed Through Unspliced

CLAMSHELL, 288 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

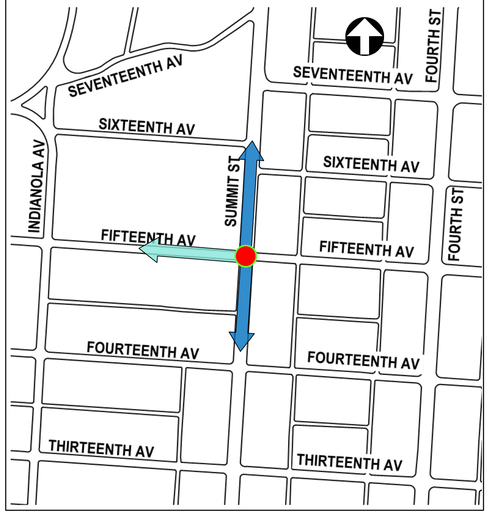
144 STRAND FOC

TO:
INT# 3188: SUMMIT ST. AT TWELFTH AVE.
SEE SHEET 728

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- LH/ZX (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 3189

REFER TO SHEET 432 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 620 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100012
PID NUMBER: 99733

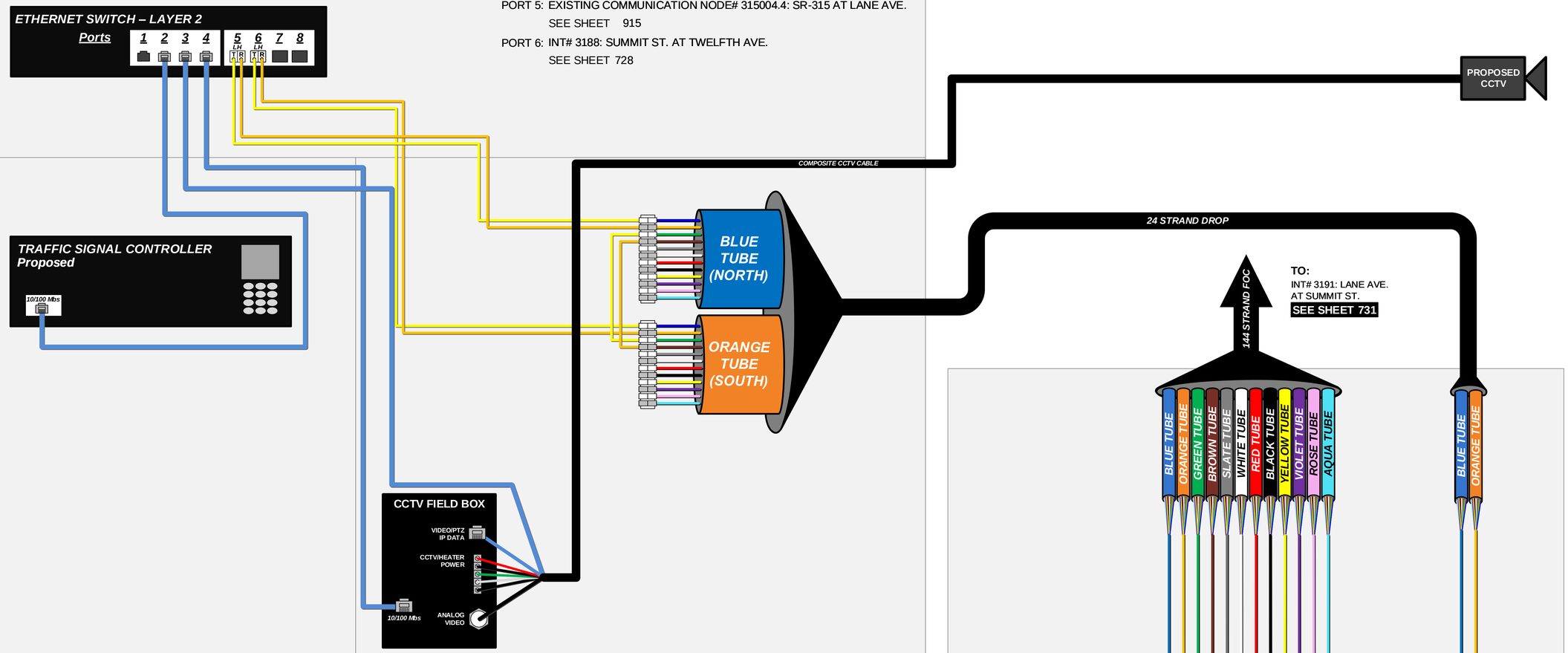
INT# 3189: FIFTEENTH AVE. AT SUMMIT ST.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

729
915

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TRAFFIC SIGNAL CABINET ASSEMBLY



ETHERNET SWITCH PORT DESTINATION

PORT 5: EXISTING COMMUNICATION NODE# 315004.4: SR-315 AT LANE AVE.
SEE SHEET 915

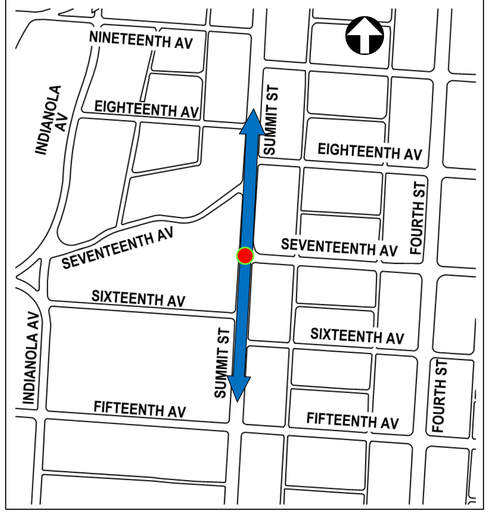
PORT 6: INT# 3188: SUMMIT ST. AT TWELFTH AVE.
SEE SHEET 728

PATCH PANEL ENCLOSURE – 24 TERMINATION

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- LH/ZX (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 3190

REFER TO SHEET 433 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 620 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100012
PID NUMBER: 99733

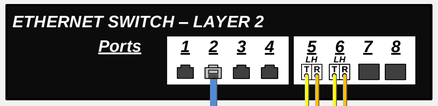
INT# 3190: SEVENTEENTH AVE. AT SUMMIT ST.
COMMUNICATIONS DIAGRAM

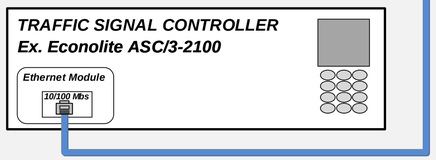
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

730
915

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TRAFFIC SIGNAL CABINET ASSEMBLY

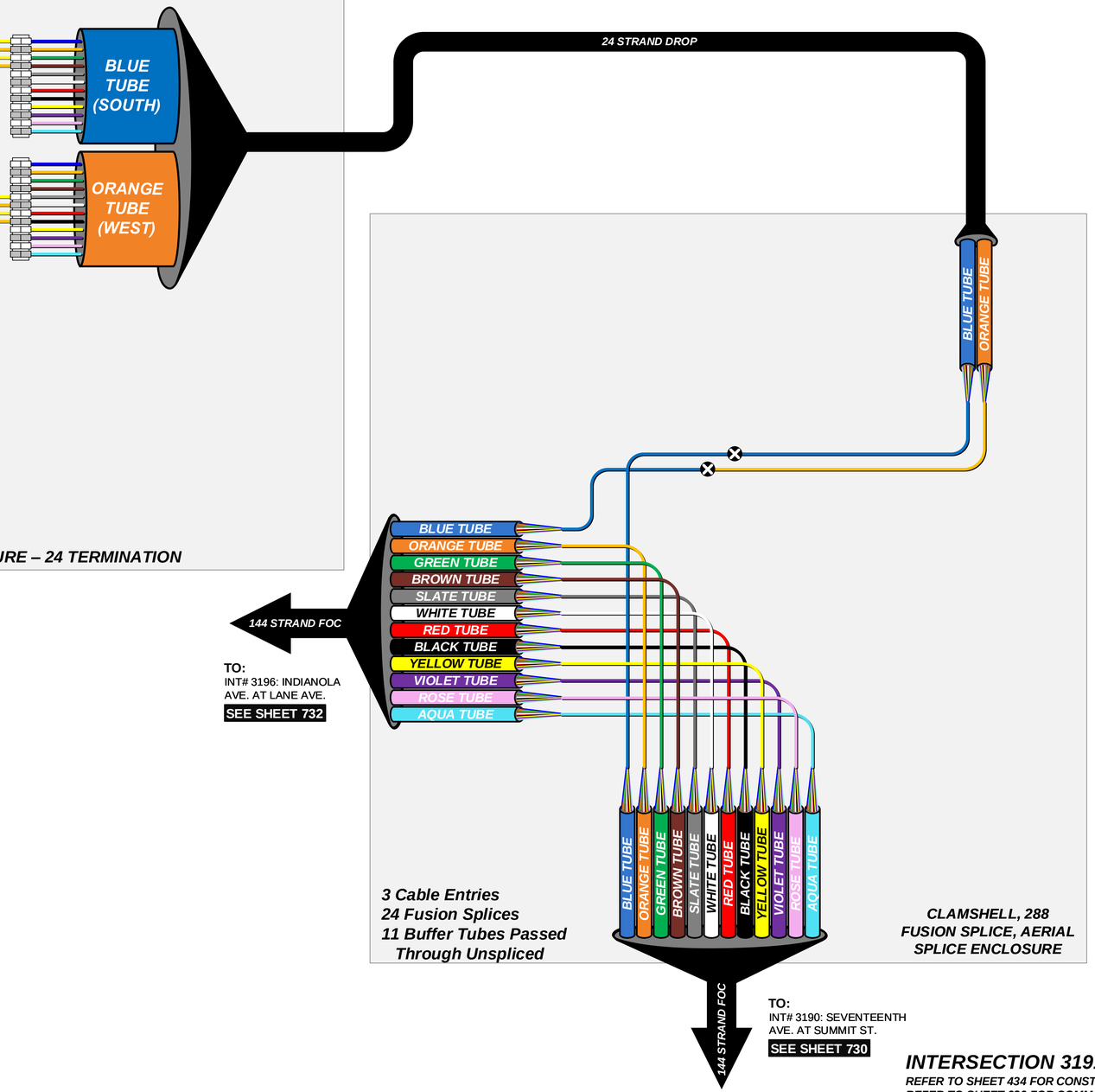




ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 3195: FIFTEENTH AVE. AT INDIANOLA AVE.
SEE SHEET 733

PORT 6: EXISTING COMMUNICATION NODE# 315004.4: SR-315 AT LANE AVE.
SEE SHEET 915



PATCH PANEL ENCLOSURE – 24 TERMINATION

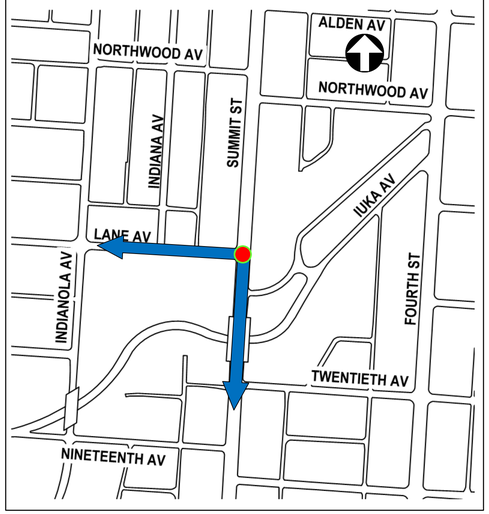
TO:
INT# 3196: INDIANOLA AVE. AT LANE AVE.
SEE SHEET 732

TO:
INT# 3190: SEVENTEENTH AVE. AT SUMMIT ST.
SEE SHEET 730

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- LH/ZX — GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 3191

REFER TO SHEET 434 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 620 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100012
PID NUMBER: 99733

INT# 3191: LANE AVE. AT SUMMIT ST.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

731
915

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TRAFFIC SIGNAL CABINET ASSEMBLY

EXISTING ETHERNET SWITCH – LAYER 2

Ports 1 2 3 4 5 6 7 8 (5, 6: LH T/R)

TRAFFIC SIGNAL CONTROLLER
Ex. Econolite ASC/3-2100

Ethernet Module
10/100 Mbs

ETHERNET SWITCH PORT DESTINATION

PORT 5: EXISTING CONNECTION TO INT# 4052: LANE AVE. AT NEIL AVE.

PORT 6: EXISTING CONNECTION TO INT# 4024: EIGHTEENTH AVE./ McDONALD'S AVE. AT HIGH ST.

BLUE TUBE (EAST)

ORANGE TUBE (WEST)

EXISTING 24 STRAND DROP

EXISTING PATCH PANEL ENCLOSURE – 24 TERMINATION

BLUE TUBE
ORANGE TUBE

BLUE TUBE	BLUE TUBE
ORANGE TUBE	ORANGE TUBE
GREEN TUBE	GREEN TUBE
BROWN TUBE	BROWN TUBE
SLATE TUBE	SLATE TUBE
WHITE TUBE	WHITE TUBE
RED TUBE	RED TUBE
BLACK TUBE	BLACK TUBE
YELLOW TUBE	YELLOW TUBE
VIOLET TUBE	VIOLET TUBE
ROSE TUBE	ROSE TUBE
AQUA TUBE	AQUA TUBE

EXISTING 144 STRAND FOC

TO:
EXISTING CONNECTION TO INT# 4026: LANE AVE. AT N HIGH ST.

144 STRAND FOC

TO:
INT# 3191: LANE AVE. AT SUMMIT ST.
SEE SHEET 731

3 Cable Entries
144 Proposed Fusion Splices
156 Fusion Splices

EXISTING SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- *LH/ZX* (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 3196
REFER TO SHEET 456 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 620 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100012
PID NUMBER: 99733

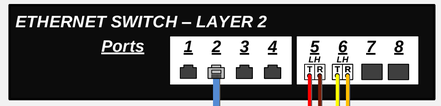
INT# 3196: INDIANOLA AVE. AT LANE AVE.
COMMUNICATIONS DIAGRAM

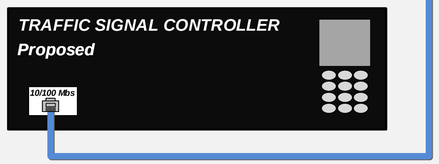
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

732
915

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TRAFFIC SIGNAL CABINET ASSEMBLY

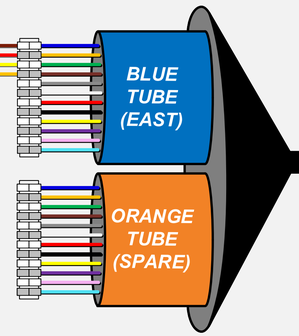


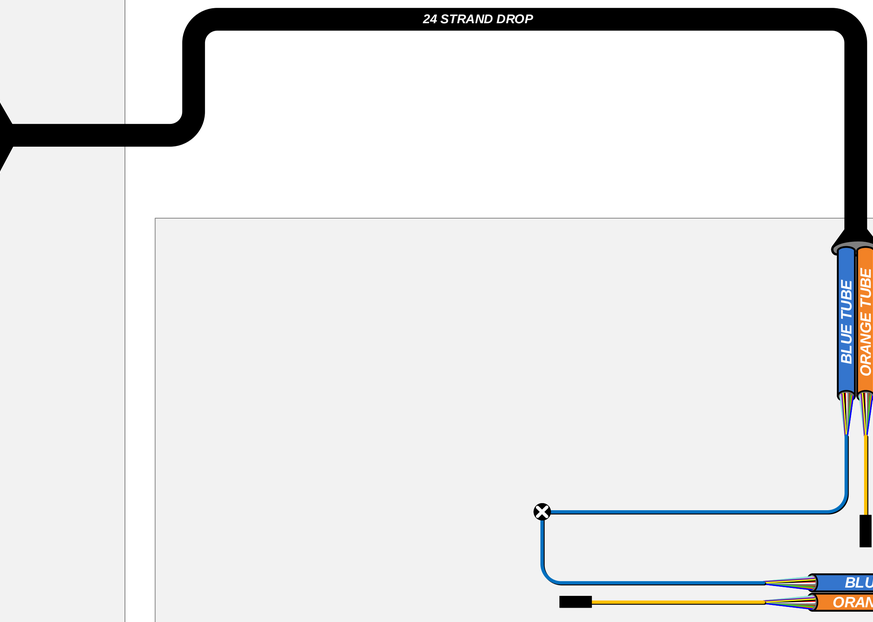


ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 3189: FIFTEENTH AVE. AT SUMMIT ST.
SEE SHEET 729

PORT 6: INT# 3191: LANE AVE. AT SUMMIT ST.
SEE SHEET 731





TO:
INT# 3189: FIFTEENTH AVE. AT SUMMIT ST.
SEE SHEET 729

PATCH PANEL ENCLOSURE – 24 TERMINATION

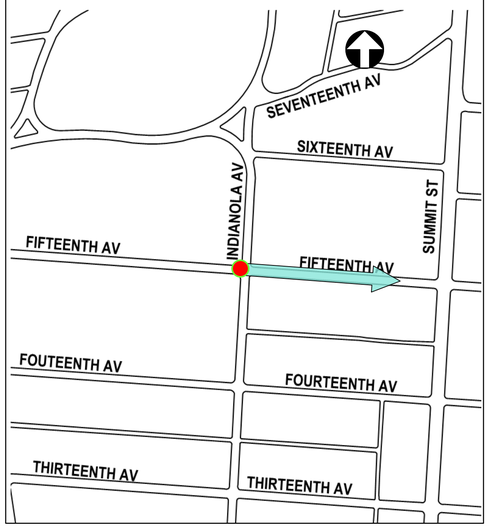
2 Cable Entries
12 Fusion Splices
2 Coiled Buffer Tubes

CLAMSHELL, 288 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- LH/ZX (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 3195

REFER TO SHEET 455 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 620 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100012
PID NUMBER: 99733

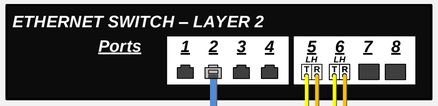
INT# 3195: FIFTEENTH AVE. AT INDIANOLA AVE.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

733
915

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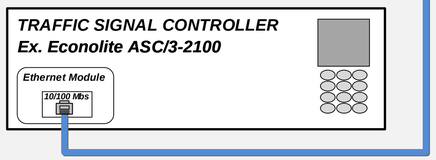
TRAFFIC SIGNAL CABINET ASSEMBLY

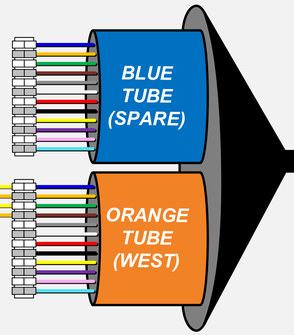


ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 3186: ELEVENTH AVE. AT SUMMIT ST.
SEE SHEET 726

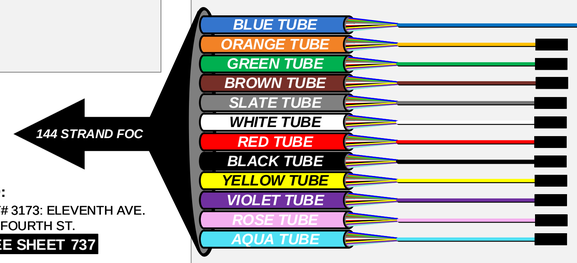
PORT 6: INT# 3176: FOURTH ST. AT SEVENTEENTH AVE.
SEE SHEET 739







PATCH PANEL ENCLOSURE – 24 TERMINATION



TO:
INT# 3173: ELEVENTH AVE. AT FOURTH ST.
SEE SHEET 737

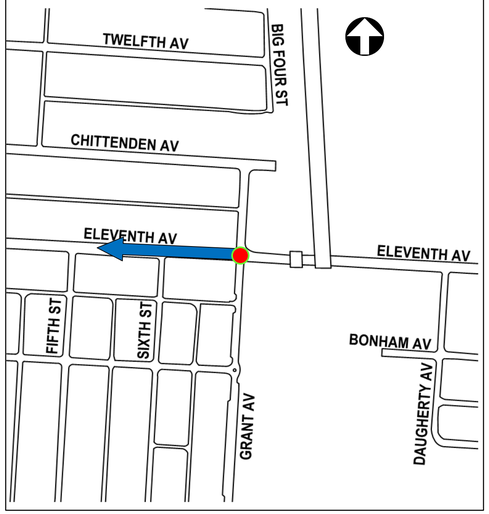
2 Cable Entries
12 Fusion Splices
12 Coiled Buffer Tubes

CLAMSHELL, 288 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- LH/ZX (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 3180
REFER TO SHEET 454 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 619 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100012
PID NUMBER: 99733

INT# 3180: ELEVENTH AVE. AT GRANT AVE.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

734
915

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TRAFFIC SIGNAL CABINET ASSEMBLY

ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 3173: ELEVENTH AVE. AT FOURTH ST.
SEE SHEET 737

PORT 6: INT# 3169: FIRST AVE. AT FOURTH ST.
SEE SHEET 721

ETHERNET SWITCH – LAYER 2

Ports 1 2 3 4 5 LH 6 LH 7 8

TRAFFIC SIGNAL CONTROLLER Proposed

10/100 Mbs

CCTV FIELD BOX

VIDEO/PTZ IP DATA
CCTV/HEATER POWER
10/100 Mbs
ANALOG VIDEO

COMPOSITE CCTV CABLE

PROPOSED CCTV

24 STRAND DROP

24 STRAND DROP

144 STRAND FOC

TO:
INT# 3172: FOURTH ST.
AT SEVENTH AVE.
SEE SHEET 736

BLUE TUBE (NORTH)
ORANGE TUBE (SOUTH)
BLUE TUBE (EAST)
ORANGE TUBE (WEST)

BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE
RED TUBE
BLACK TUBE
YELLOW TUBE
VIOLET TUBE
ROSE TUBE
AQUA TUBE

PATCH PANEL ENCLOSURES: (2) - 24 TERMINATION

EXISTING 144 STRAND FOC

TO:
INT# 3184: FIFTH AVE.
AT SUMMIT ST.
SEE SHEET 724

EXISTING 144 STRAND FOC

TO:
EXISTING CONNECTION
TO INT# 3032: FIFTH AVE
AT FIELDS AVE.

144 STRAND FOC

TO:
INT# 3170: FOURTH ST.
AT SECOND AVE.
SEE SHEET 722

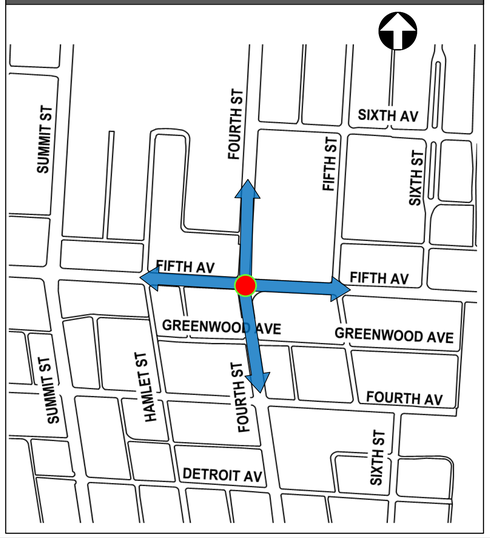
6 Cable Entries
312 Fusion Splices

DOME, 800 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 3171

REFER TO SHEET 440 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 619 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100012
PID NUMBER: 99733

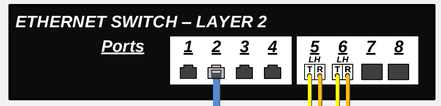
INT# 3171: FIFTH ST. AT FOURTH ST.
COMMUNICATIONS DIAGRAM

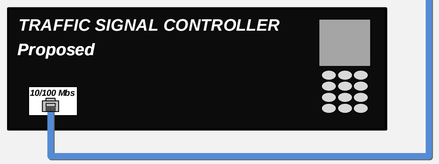
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

735
915

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TRAFFIC SIGNAL CABINET ASSEMBLY

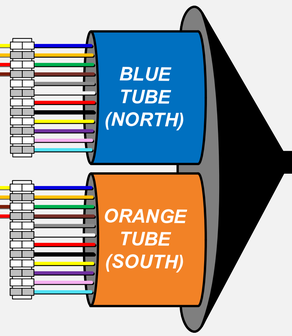




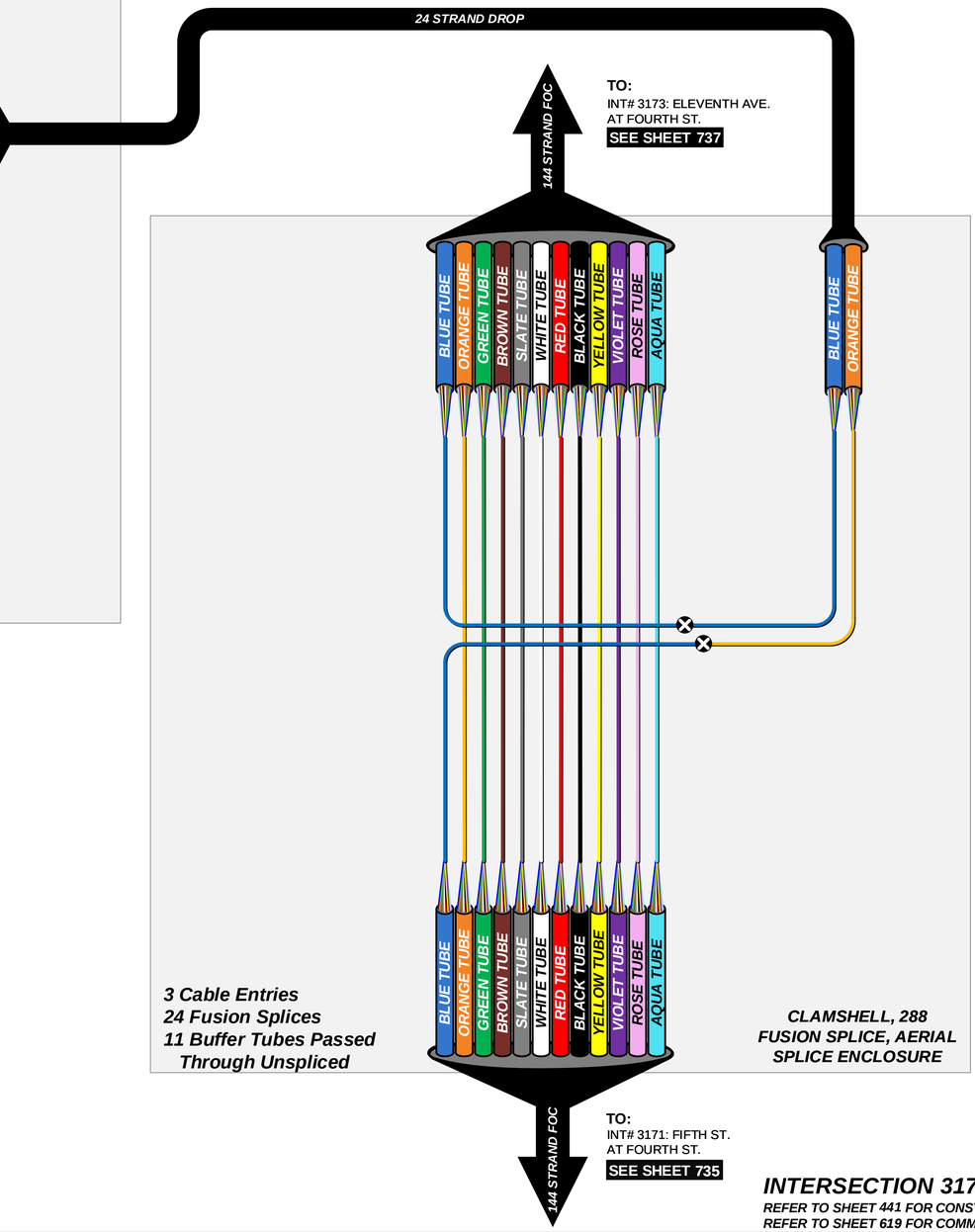
ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 3174: CHITTENDEN AVE. AT FOURTH ST.
SEE SHEET 738

PORT 6: INT# 3170: FOURTH ST. AT SECOND AVE.
SEE SHEET 722



PATCH PANEL ENCLOSURE – 24 TERMINATION



LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- LH/ZX — GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 3172

REFER TO SHEET 441 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 619 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100012
PID NUMBER: 99733

INT# 3172: FOURTH ST. AT SEVENTH AVE.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

736
915

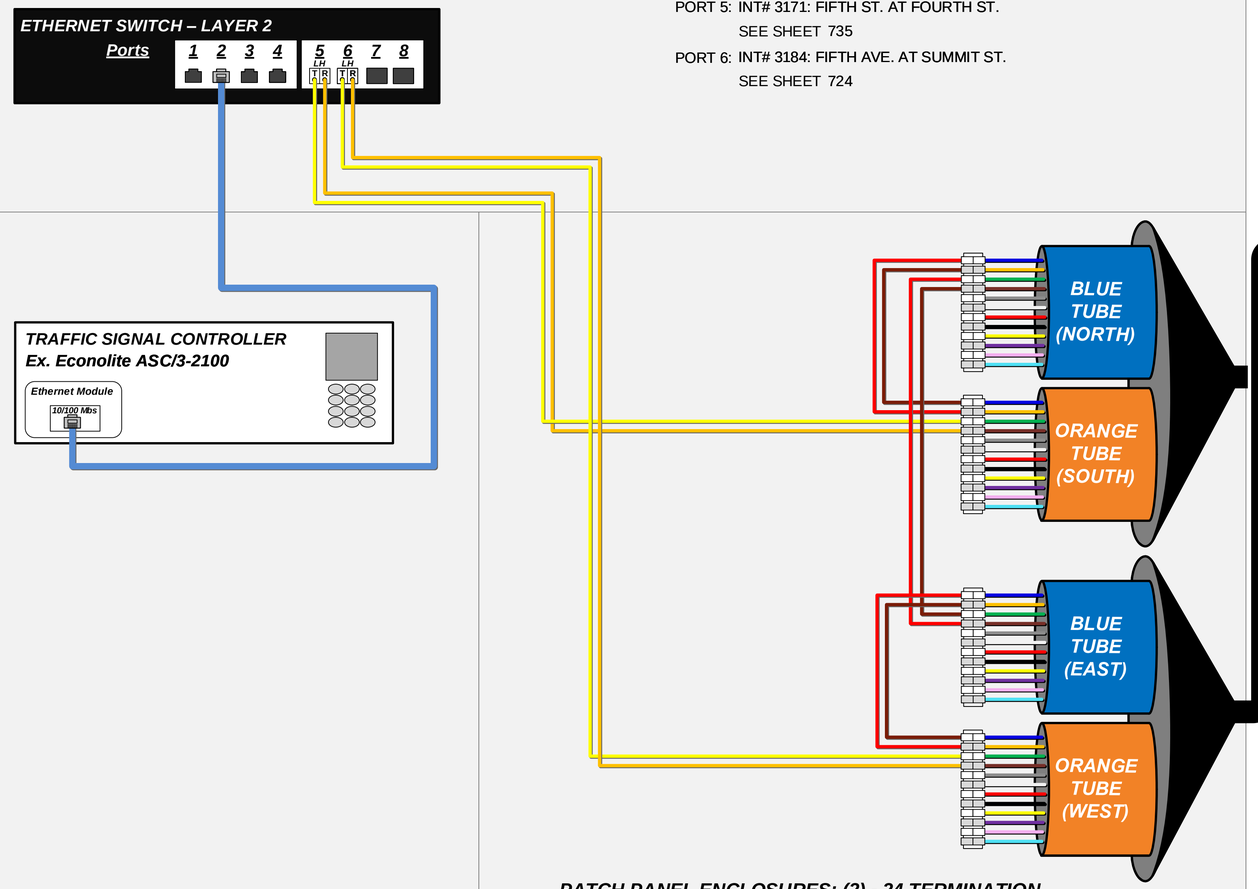
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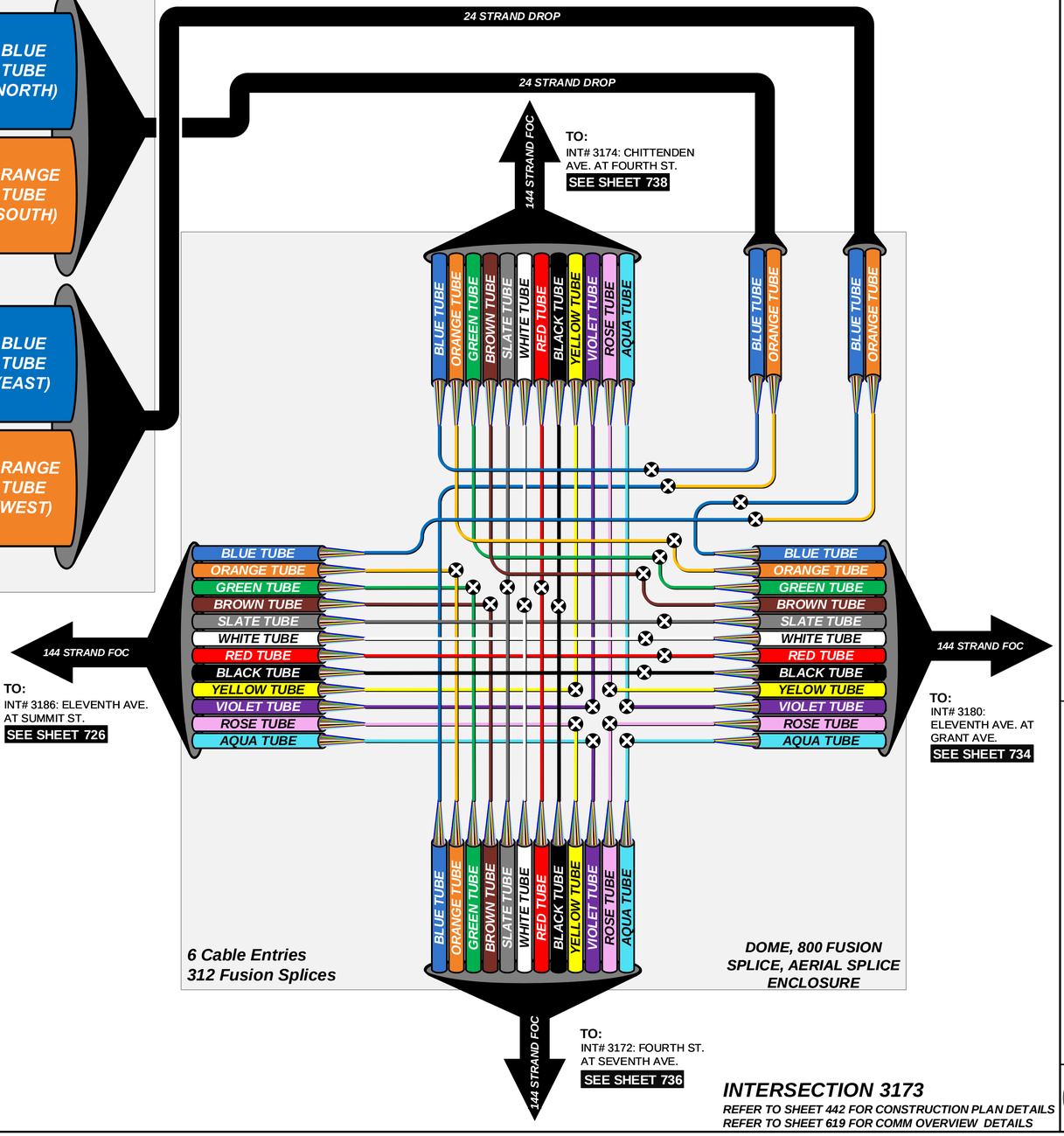
TRAFFIC SIGNAL CABINET ASSEMBLY

ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 3171: FIFTH ST. AT FOURTH ST.
SEE SHEET 735

PORT 6: INT# 3184: FIFTH AVE. AT SUMMIT ST.
SEE SHEET 724

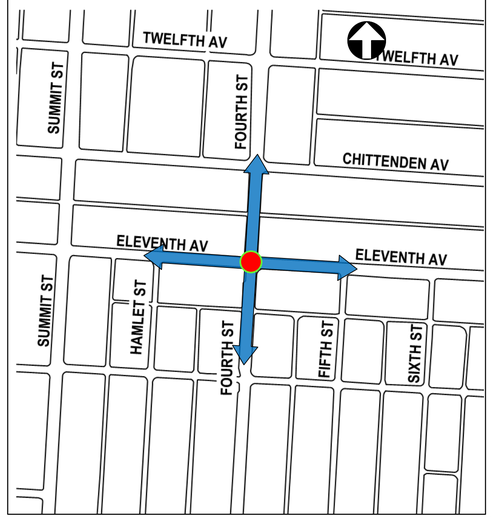




LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 3173

REFER TO SHEET 442 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 619 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100012
PID NUMBER: 99733

INT# 3173: ELEVENTH AVE. AT FOURTH ST.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

737
915

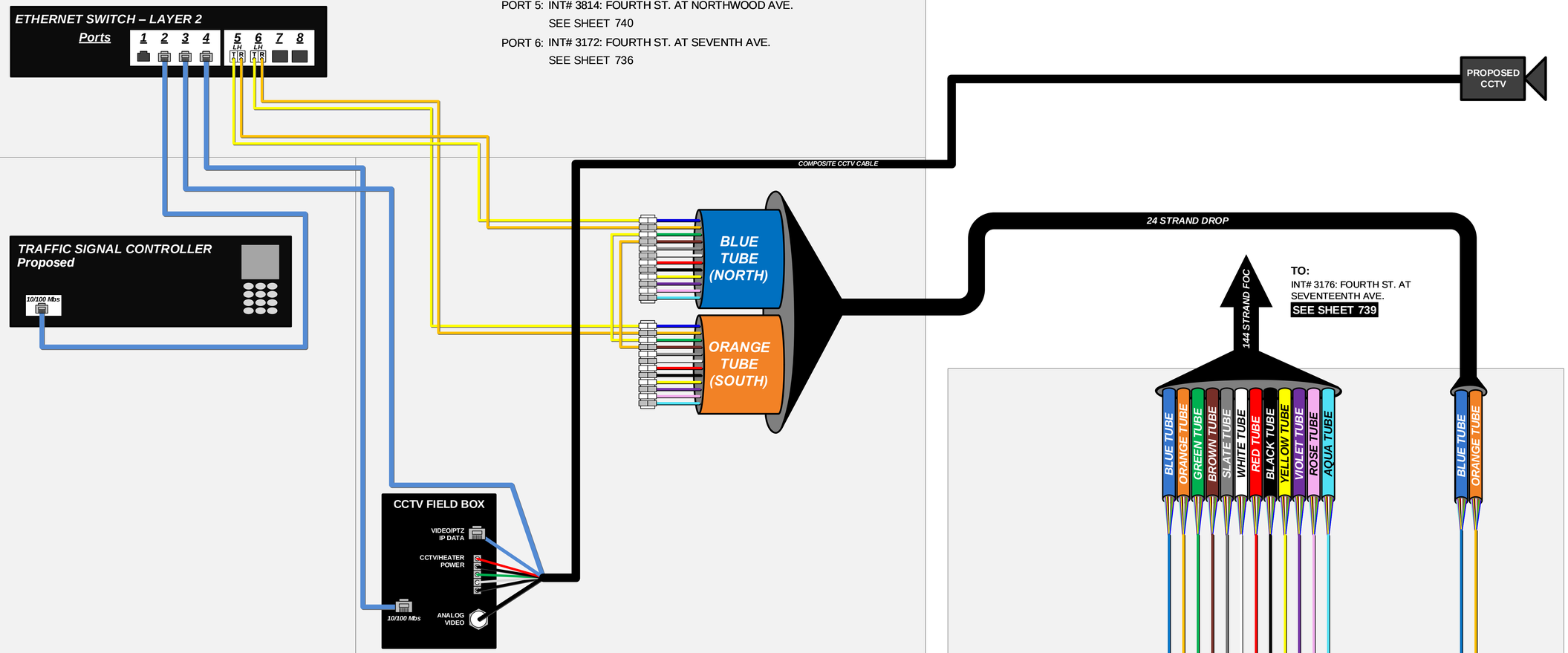
J:\Jobs\63721 CTSS Phase E\TECHPROD\Communications\Intersection Splicing Details\723-737.vsd - 3173 layout ~ last saved by: skoganti 9/13/2018 4:56:38 PM ~ printed: 9/13/2018 4:56:38 PM

TRAFFIC SIGNAL CABINET ASSEMBLY

ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 3814: FOURTH ST. AT NORTHWOOD AVE.
SEE SHEET 740

PORT 6: INT# 3172: FOURTH ST. AT SEVENTH AVE.
SEE SHEET 736



PATCH PANEL ENCLOSURE – 24 TERMINATION

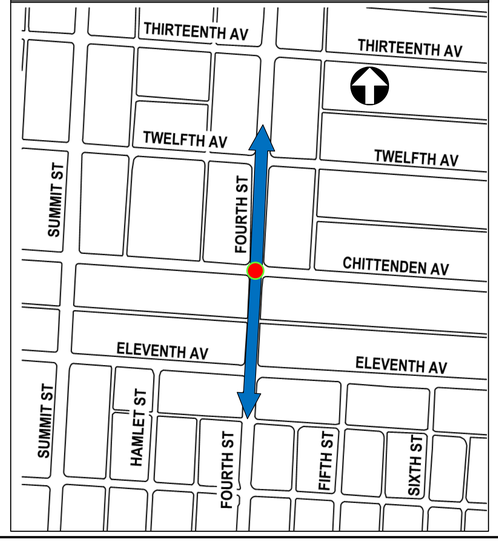
3 Cable Entries
24 Fusion Splices
11 Buffer Tubes Passed Through Unspliced

CLAMSHELL, 288 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 3174

REFER TO SHEET 443 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 619 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100012
PID NUMBER: 99733

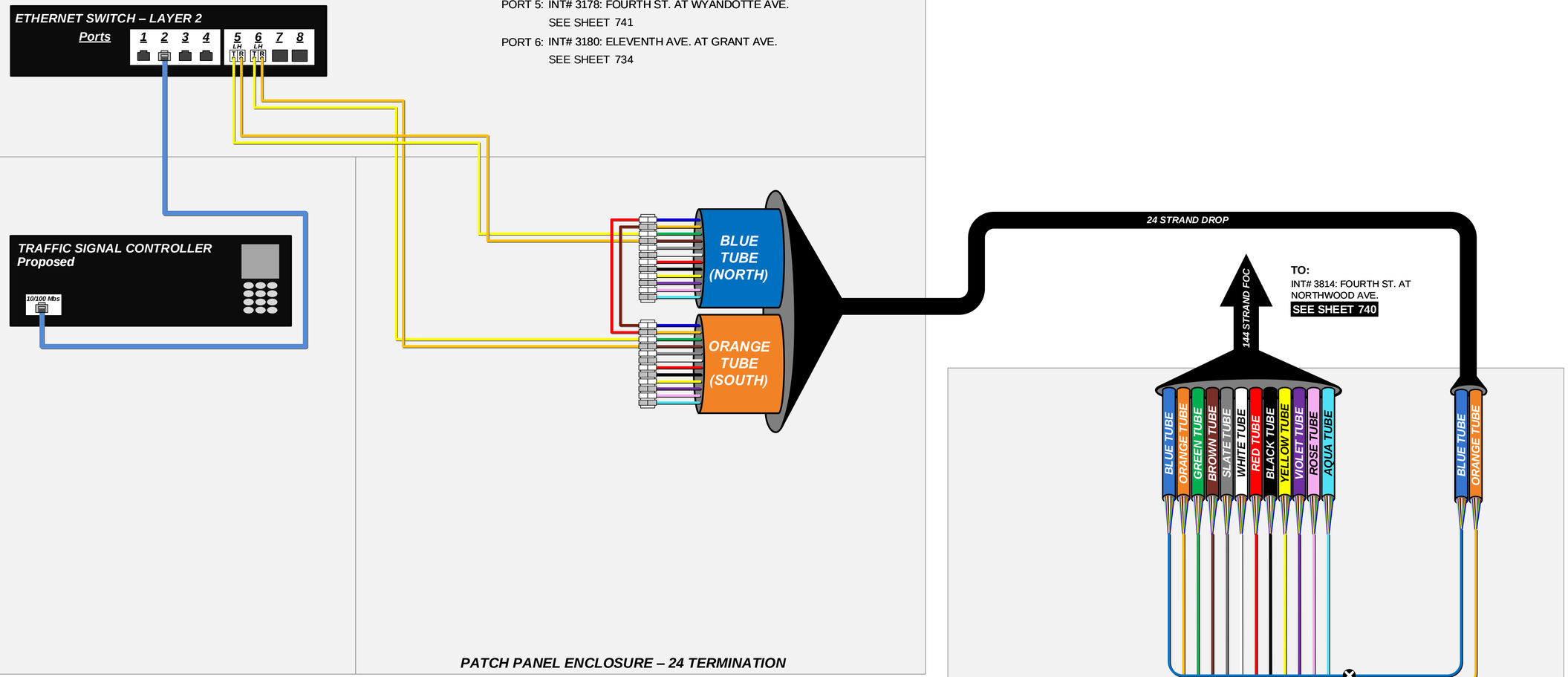
INT# 3174: CHITTENDEN AVE. AT FOURTH ST.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

738
915

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TRAFFIC SIGNAL CABINET ASSEMBLY



ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 3178: FOURTH ST. AT WYANDOTTE AVE.
SEE SHEET 741

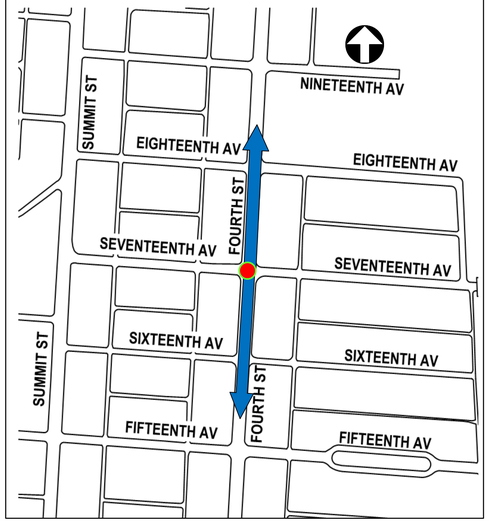
PORT 6: INT# 3180: ELEVENTH AVE. AT GRANT AVE.
SEE SHEET 734

PATCH PANEL ENCLOSURE – 24 TERMINATION

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 3176

REFER TO SHEET 444 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 620 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100012
PID NUMBER: 99733

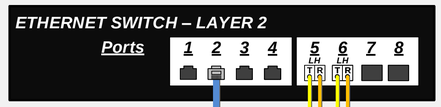
INT# 3176: FOURTH ST. AT SEVENTEENTH AVE.
COMMUNICATIONS DIAGRAM

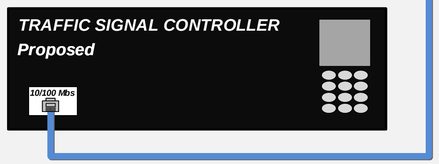
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

739
915

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TRAFFIC SIGNAL CABINET ASSEMBLY

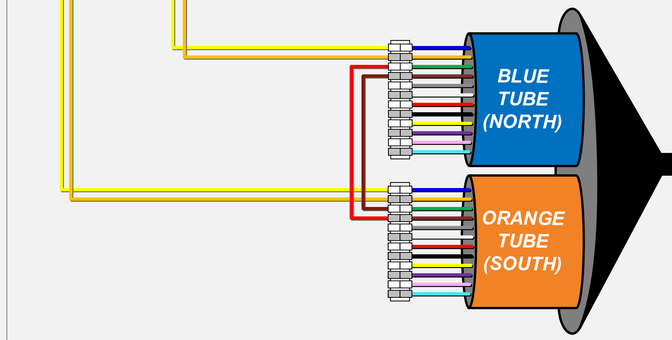




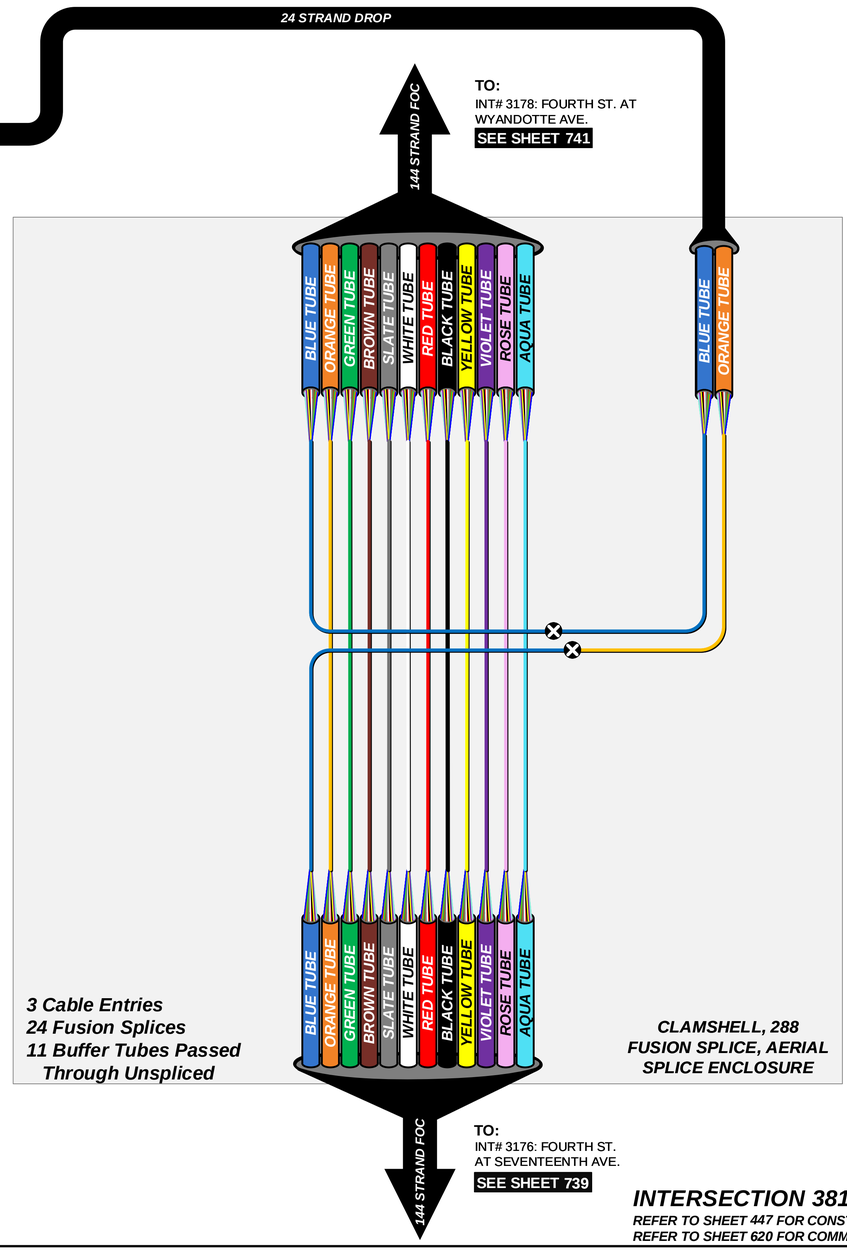
ETHERNET SWITCH PORT DESTINATION

PORT 5: EXISTING COMMUNICATION NODE# 071113.4: IR-71 AT NORTH BROADWAY
SEE SHEET 869

PORT 6: INT# 3174: CHITTENDEN AVE. AT FOURTH ST.
SEE SHEET 738



PATCH PANEL ENCLOSURE – 24 TERMINATION



3 Cable Entries
24 Fusion Splices
11 Buffer Tubes Passed Through Unspliced

CLAMSHELL, 288 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- *LH/ZX* (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 3814

REFER TO SHEET 447 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 620 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100012
PID NUMBER: 99733

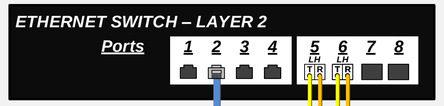
INT# 3814: FOURTH ST. AT NORTHWOOD AVE.
COMMUNICATIONS DIAGRAM

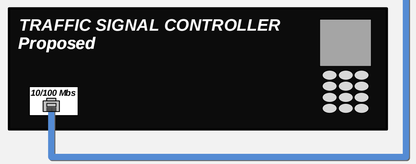
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

740
915

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TRAFFIC SIGNAL CABINET ASSEMBLY

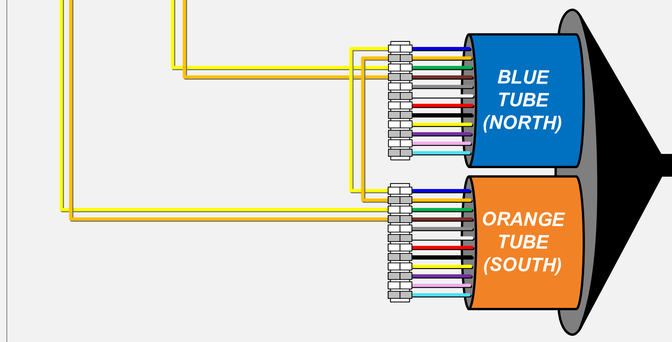




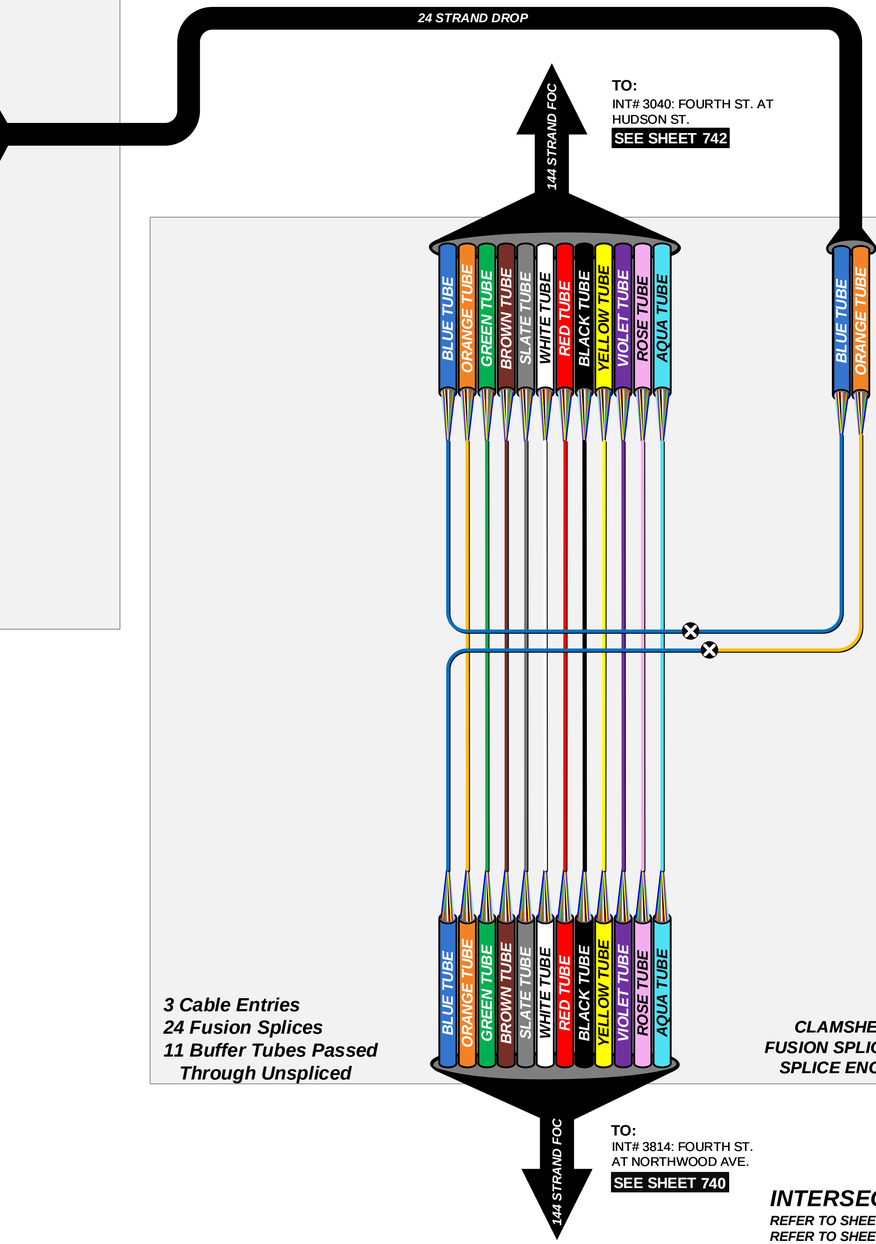
ETHERNET SWITCH PORT DESTINATION

PORT 5: EXISTING COMMUNICATION NODE# 071113.4: IR-71 AT NORTH BROADWAY
SEE SHEET 869

PORT 6: INT# 3176: FOURTH ST. AT SEVENTEENTH AVE.
SEE SHEET 739



PATCH PANEL ENCLOSURE – 24 TERMINATION



LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 3178

REFER TO SHEET 448 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 620 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100012
PID NUMBER: 99733

INT# 3178: FOURTH ST. AT WYANDOTTE AVE.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

741
915

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TRAFFIC SIGNAL CABINET ASSEMBLY

EXISTING ETHERNET SWITCH – LAYER 2

Ports 1 2 3 4 5 6 7 8 (5 LH T/R, 6 LH T/R)

TRAFFIC SIGNAL CONTROLLER
Ex. Econolite ASC/3-2100

Ethernet Module — *10/100 Mbs*

ETHERNET SWITCH PORT DESTINATION

PORT 5: EXISTING CONNECTION TO INT# 3042: HUDSON ST. AT 1-71 NB RAMPS

PORT 6: EXISTING CONNECTION TO INT# 3038: HUDSON ST. AT INDIANOLA AVE.

EXISTING PATCH PANEL ENCLOSURE - 24 TERMINATION

BLUE TUBE (EAST)
ORANGE TUBE (WEST)
BLUE TUBE (SPARE)
ORANGE TUBE (SOUTH)

PATCH PANEL ENCLOSURE - 24 TERMINATION

24 STRAND DROP

EXISTING 24 STRAND DROP

BLUE TUBE
ORANGE TUBE

BLUE TUBE
ORANGE TUBE

BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE
RED TUBE
BLACK TUBE
YELLOW TUBE
VIOLET TUBE
ROSE TUBE
AQUA TUBE

EXISTING 144 STRAND FOC

TO:
EXISTING CONNECTION TO INT# 3039: SUMMIT ST. AT HUDSON ST.

EXISTING 144 STRAND FOC

TO:
EXISTING CONNECTION TO INT# 3041: SILVER DR. AT HUDSON ST.

5 Cable Entries
204 Proposed Fusion Splices
228 Total Fusion Splices
2 Coiled Buffer Tubes

EXISTING SPLICE ENCLOSURE

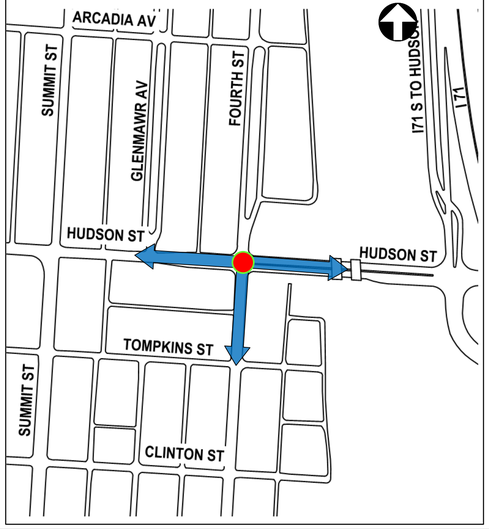
144 STRAND FOC

TO:
INT# 3178: FOURTH ST. AT WYANDOTTE AVE.
SEE SHEET 741

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- LH/ZX (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 3040

REFER TO SHEET 450 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 620 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100012
PID NUMBER: 99733

INT# 3040: FOURTH ST. AT HUDSON ST.
COMMUNICATIONS DIAGRAM

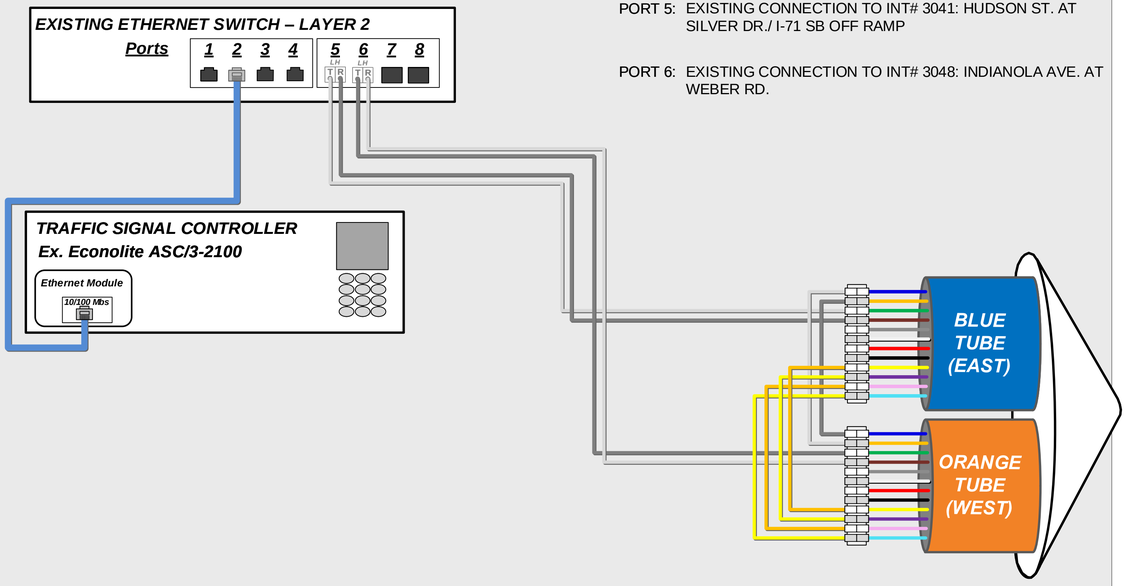
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

742
915

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TRAFFIC SIGNAL CABINET ASSEMBLY



ETHERNET SWITCH PORT DESTINATION

PORT 5: EXISTING CONNECTION TO INT# 3041: HUDSON ST. AT SILVER DR./ I-71 SB OFF RAMP

PORT 6: EXISTING CONNECTION TO INT# 3048: INDIANOLA AVE. AT WEBER RD.

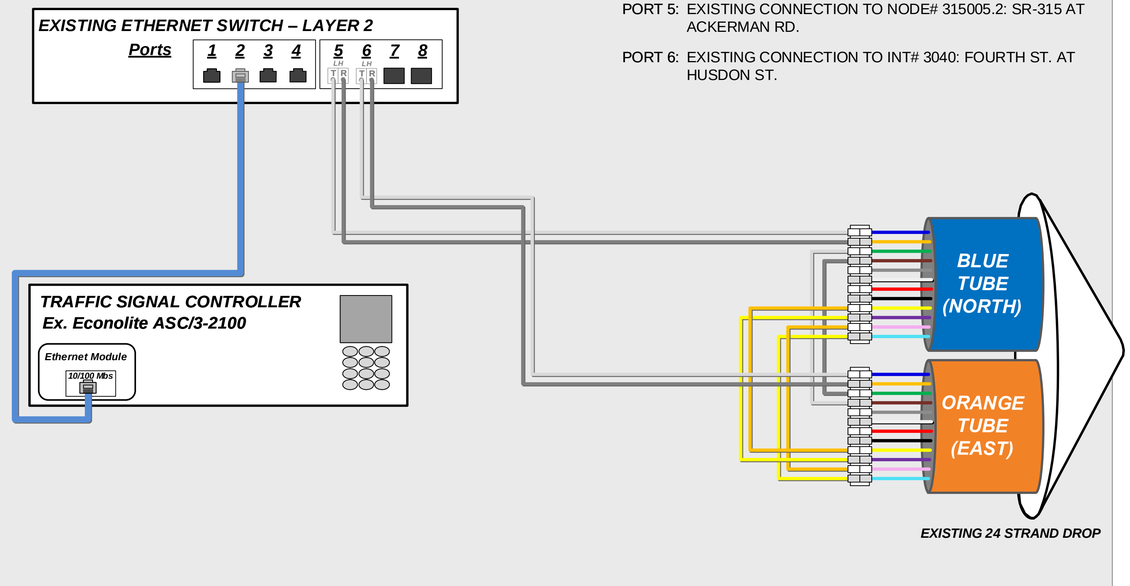
INTERSECTION 3039

SUMMIT ST. AT HUDSON ST.

REFER TO SHEET 620 FOR COMM OVERVIEW DETAILS

EXISTING PATCH PANEL ENCLOSURE – 24 TERMINATION

TRAFFIC SIGNAL CABINET ASSEMBLY



ETHERNET SWITCH PORT DESTINATION

PORT 5: EXISTING CONNECTION TO NODE# 315005.2: SR-315 AT ACKERMAN RD.

PORT 6: EXISTING CONNECTION TO INT# 3040: FOURTH ST. AT HUSDON ST.

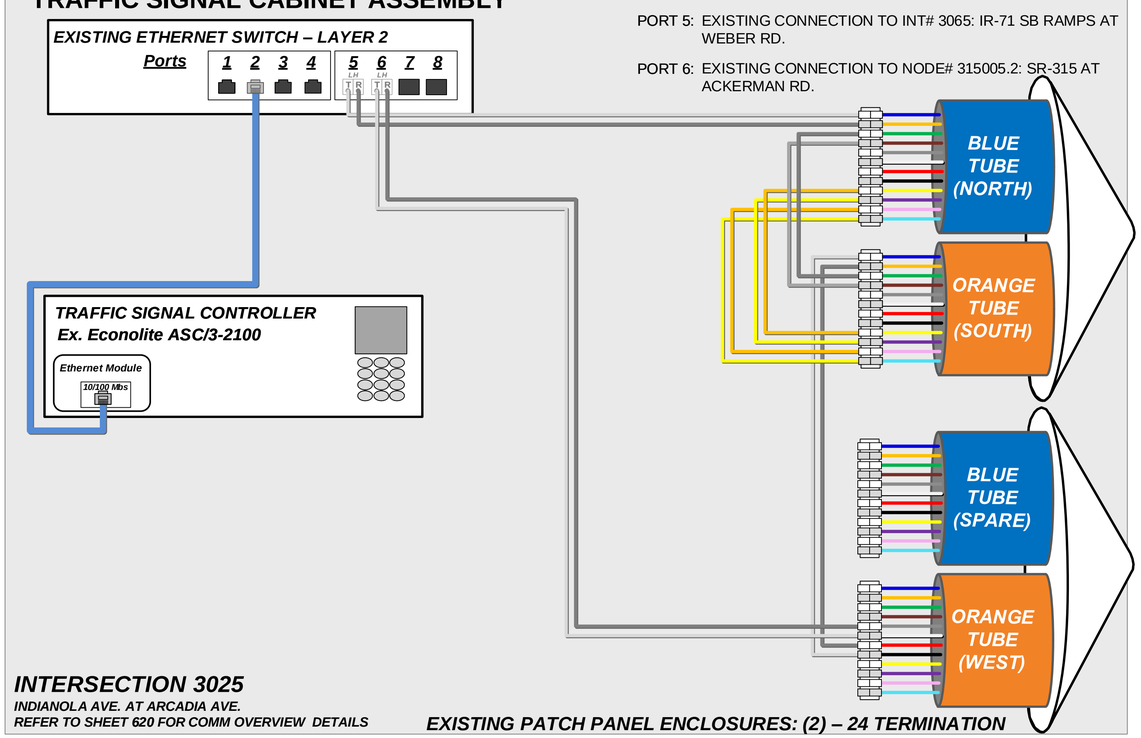
INTERSECTION 3038

HUDSON ST. AT INDIANOLA AVE.

REFER TO SHEET 620 FOR COMM OVERVIEW DETAILS

EXISTING PATCH PANEL ENCLOSURE – 24 TERMINATION

TRAFFIC SIGNAL CABINET ASSEMBLY



ETHERNET SWITCH PORT DESTINATION

PORT 5: EXISTING CONNECTION TO INT# 3065: IR-71 SB RAMPS AT WEBER RD.

PORT 6: EXISTING CONNECTION TO NODE# 315005.2: SR-315 AT ACKERMAN RD.

INTERSECTION 3025

INDIANOLA AVE. AT ARCADIA AVE.

REFER TO SHEET 620 FOR COMM OVERVIEW DETAILS

EXISTING PATCH PANEL ENCLOSURES: (2) – 24 TERMINATION

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- LH/ZX (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

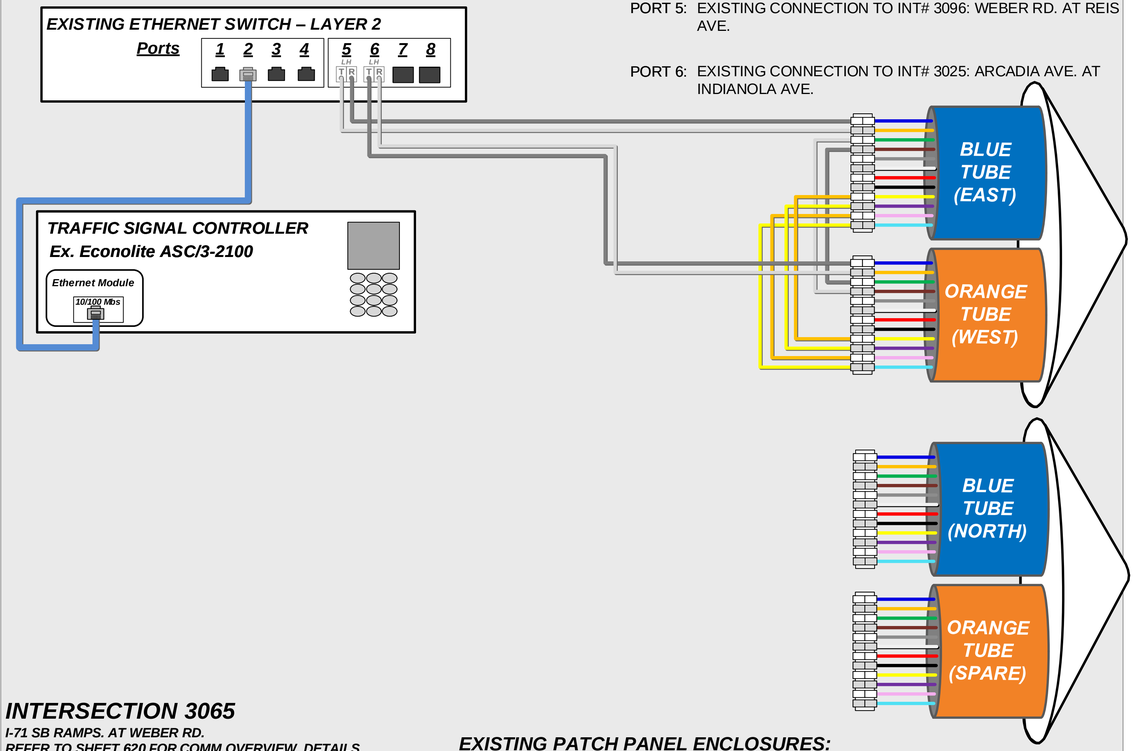
CIP: 540007 - 100012
PID NUMBER: 99733

INTS 3039, 3038 AND 3025 PATCH PANELS
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

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TRAFFIC SIGNAL CABINET ASSEMBLY



ETHERNET SWITCH PORT DESTINATION

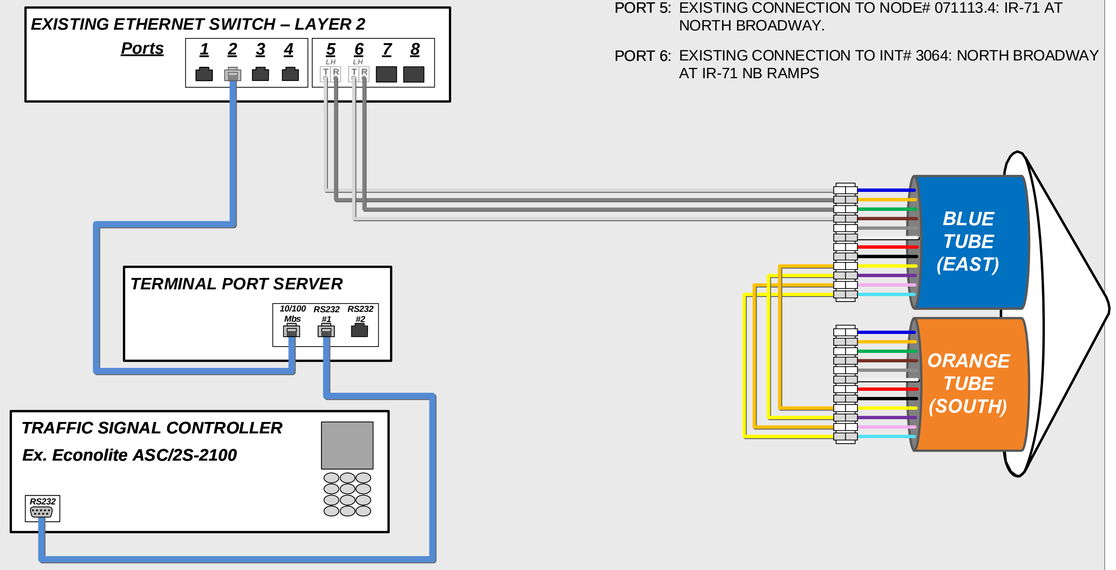
PORT 5: EXISTING CONNECTION TO INT# 3096: WEBER RD. AT REIS AVE.

PORT 6: EXISTING CONNECTION TO INT# 3025: ARCADIA AVE. AT INDIANOLA AVE.

INTERSECTION 3065
I-71 SB RAMPS. AT WEBER RD.
REFER TO SHEET 620 FOR COMM OVERVIEW DETAILS

EXISTING PATCH PANEL ENCLOSURES: (2) - 24 TERMINATION

TRAFFIC SIGNAL CABINET ASSEMBLY



ETHERNET SWITCH PORT DESTINATION

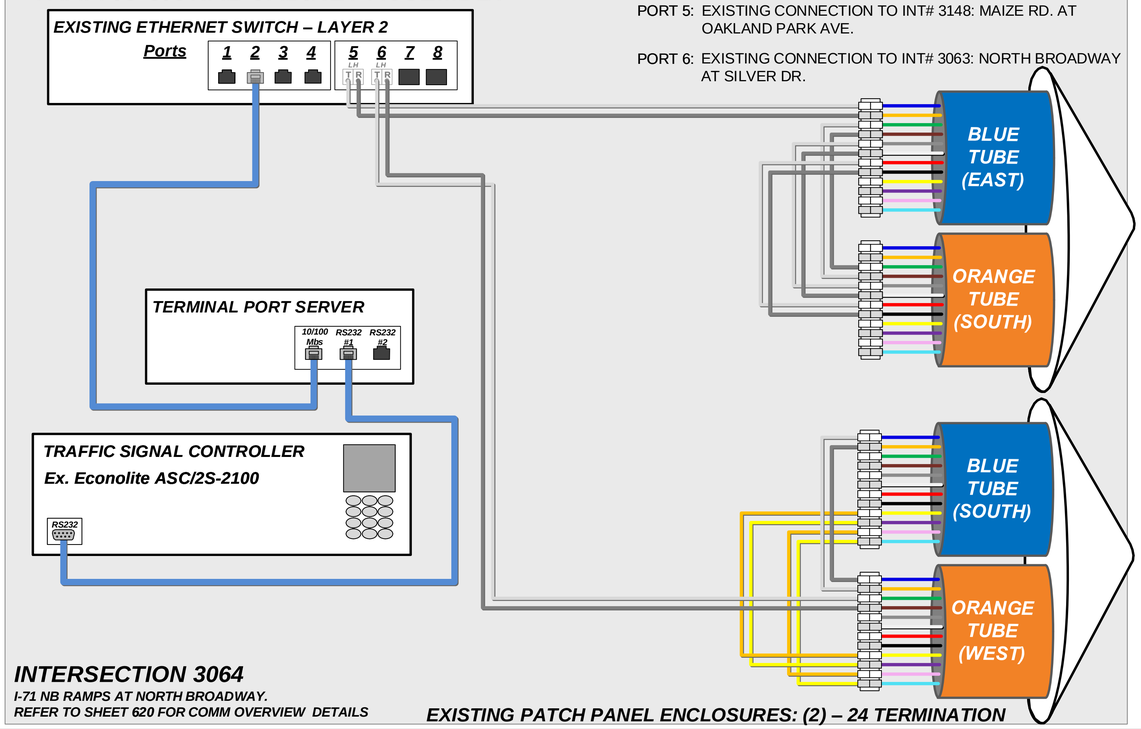
PORT 5: EXISTING CONNECTION TO NODE# 071113.4: IR-71 AT NORTH BROADWAY.

PORT 6: EXISTING CONNECTION TO INT# 3064: NORTH BROADWAY AT IR-71 NB RAMPS

INTERSECTION 3063
SILVER DR. AT NORTH BROADWAY.
REFER TO SHEET 620 FOR COMM OVERVIEW DETAILS

EXISTING PATCH PANEL ENCLOSURE – 24 TERMINATION

TRAFFIC SIGNAL CABINET ASSEMBLY



ETHERNET SWITCH PORT DESTINATION

PORT 5: EXISTING CONNECTION TO INT# 3148: MAIZE RD. AT OAKLAND PARK AVE.

PORT 6: EXISTING CONNECTION TO INT# 3063: NORTH BROADWAY AT SILVER DR.

INTERSECTION 3064
I-71 NB RAMPS AT NORTH BROADWAY.
REFER TO SHEET 620 FOR COMM OVERVIEW DETAILS

EXISTING PATCH PANEL ENCLOSURES: (2) – 24 TERMINATION

LEGEND

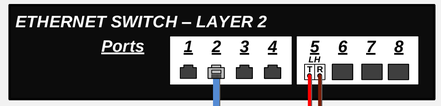
- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- LH/ZX (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

CIP: 540007 - 100012
PID NUMBER: 99733

INTS 3065, 3063 AND 3064 PATCH PANELS
COMMUNICATIONS DIAGRAM

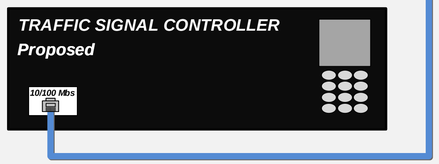
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

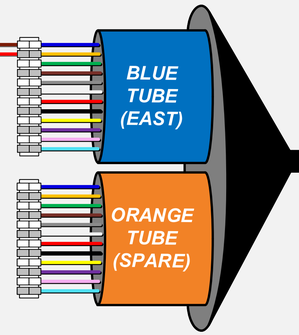
TRAFFIC SIGNAL CABINET ASSEMBLY



ETHERNET SWITCH PORT DESTINATION

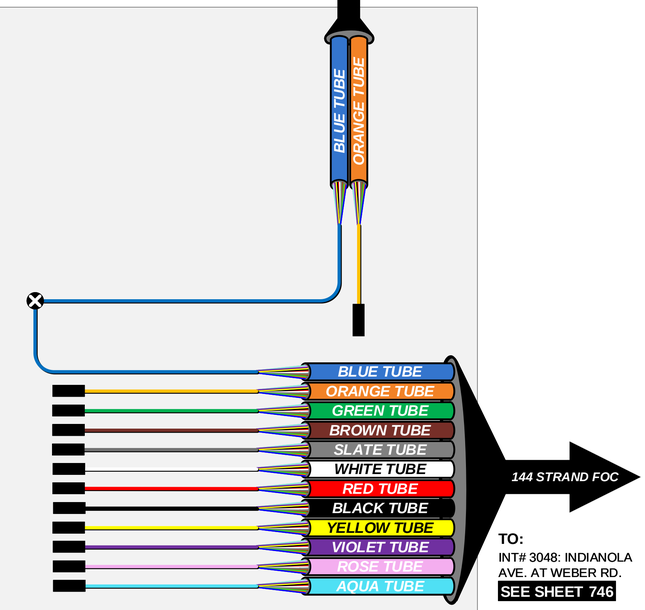
PORT 5: INT# 3048: INDIANOLA AVE. AT WEBER RD.
SEE SHEET 746





24 STRAND DROP

PATCH PANEL ENCLOSURE – 24 TERMINATION



TO:
INT# 3048: INDIANOLA AVE. AT WEBER RD.
SEE SHEET 746

2 Cable Entries
12 Fusion Splices
12 Coiled Buffer Tubes

CLAMSHELL, 288 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- LH/ZX (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 3050
REFER TO SHEET 458 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 620 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100012
PID NUMBER: 99733

INT# 3050: CALUMET ST. AT WEBER RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

745
915

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TRAFFIC SIGNAL CABINET ASSEMBLY

EXISTING ETHERNET SWITCH – LAYER 2

Ports: 1 2 3 4 5 6 7 8 (5 LH, 6 LH, 7 LH, 8 T/R)

TRAFFIC SIGNAL CONTROLLER
Ex. Econolite ASC/3-2100

Ethernet Module
10/100 Mbs

ETHERNET SWITCH PORT DESTINATION

PORT 5: EXISTING CONNECTION TO INT# 3039: HUDSON ST. AT SUMMIT ST.

PORT 6: EXISTING CONNECTION TO INT# 3066: I-71 NB RAMPS AT WEBER RD.

PORT 7: INT# 3050: CALUMET ST. AT WEBER RD.
SEE SHEET 745

BLUE TUBE (NORTH)

ORANGE TUBE (SOUTH)

BLUE TUBE (EAST)

ORANGE TUBE (WEST)

EXISTING PATCH PANEL ENCLOSURES: (2) - 24 TERMINATION

EXISTING 24 STRAND DROP

EXISTING 24 STRAND DROP

EXISTING 144 STRAND FOC

TO:
EXISTING CONNECTION TO INT# 3047: E NORTH BROADWAY AT INDIANOLA AVE.

BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE
RED TUBE
BLACK TUBE
YELLOW TUBE
VIOLET TUBE
ROSE TUBE
AQUA TUBE

144 STRAND FOC

TO:
INT# 3050: CALUMET ST. AT WEBER RD.
SEE SHEET 745

EXISTING 144 STRAND FOC

TO:
EXISTING CONNECTION TO INT# 3065: I-71 SB RAMPS AT WEBER RD.

6 Cable Entries
144 Proposed Fusion Splices
312 Total Fusion Splices

DOME, 800 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

EXISTING 144 STRAND FOC

TO:
EXISTING CONNECTION TO INT# 3025: ARCADIA AVE. AT INDIANOLA AVE.

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- LH/ZX (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 3048

REFER TO SHEET 459 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 620 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100012
PID NUMBER: 99733

INT# 3048: INDIANOLA AVE. AT WEBER RD.
COMMUNICATIONS DIAGRAM

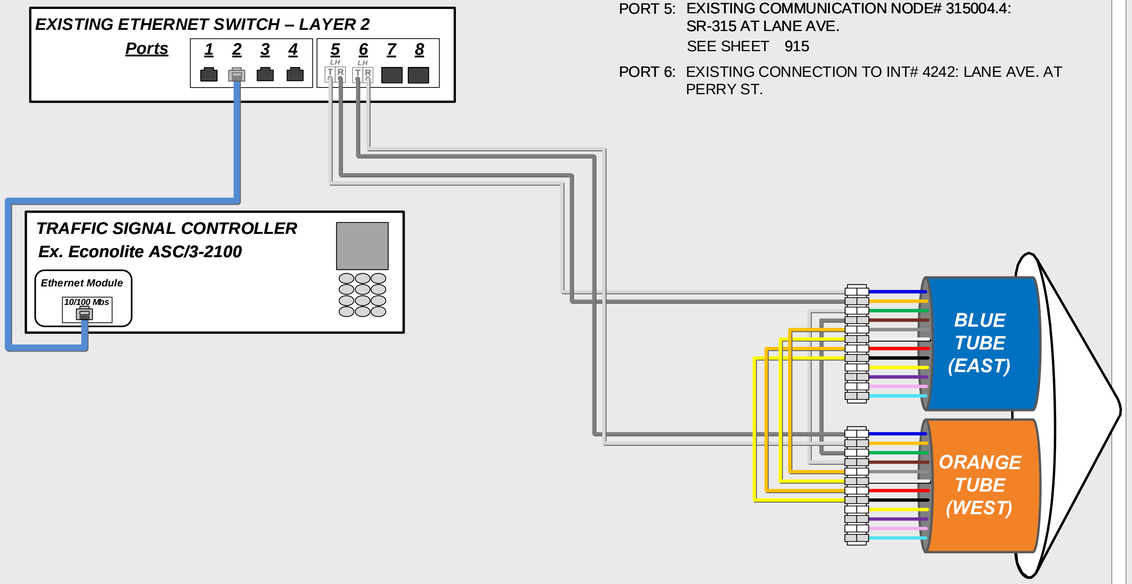
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

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TRAFFIC SIGNAL CABINET ASSEMBLY



ETHERNET SWITCH PORT DESTINATION

PORT 5: EXISTING COMMUNICATION NODE# 315004.4: SR-315 AT LANE AVE.
SEE SHEET 915

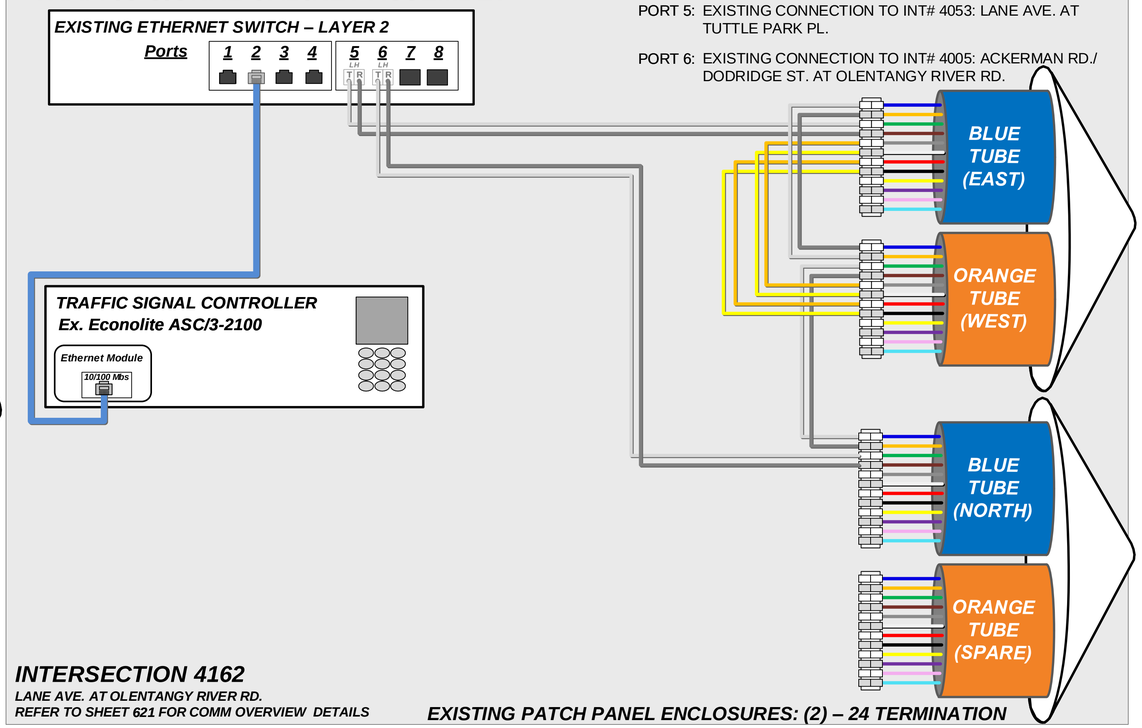
PORT 6: EXISTING CONNECTION TO INT# 4242: LANE AVE. AT PERRY ST.

INTERSECTION 4161

FYFFE RD./ FRED TAYLOR DR. AT LANE AVE.
REFER TO SHEET 621 FOR COMM OVERVIEW DETAILS

EXISTING PATCH PANEL ENCLOSURE – 24 TERMINATION

TRAFFIC SIGNAL CABINET ASSEMBLY



ETHERNET SWITCH PORT DESTINATION

PORT 5: EXISTING CONNECTION TO INT# 4053: LANE AVE. AT TUTTLE PARK PL.

PORT 6: EXISTING CONNECTION TO INT# 4005: ACKERMAN RD./ DODRIDGE ST. AT OLENTANGY RIVER RD.

INTERSECTION 4162

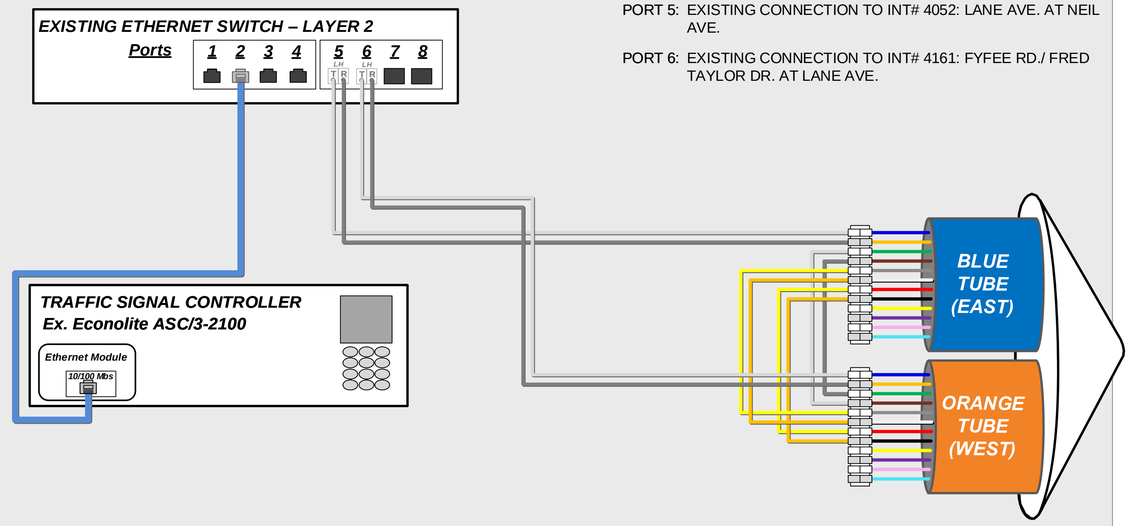
LANE AVE. AT OLENTANGY RIVER RD.
REFER TO SHEET 621 FOR COMM OVERVIEW DETAILS

EXISTING PATCH PANEL ENCLOSURES: (2) – 24 TERMINATION

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- *LH/ZX* GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

TRAFFIC SIGNAL CABINET ASSEMBLY



ETHERNET SWITCH PORT DESTINATION

PORT 5: EXISTING CONNECTION TO INT# 4052: LANE AVE. AT NEIL AVE.

PORT 6: EXISTING CONNECTION TO INT# 4161: FYFEE RD./ FRED TAYLOR DR. AT LANE AVE.

INTERSECTION 4242

LANE AVE. AT PERRY ST.
REFER TO SHEET 621 FOR COMM OVERVIEW DETAILS

EXISTING PATCH PANEL ENCLOSURE – 24 TERMINATION

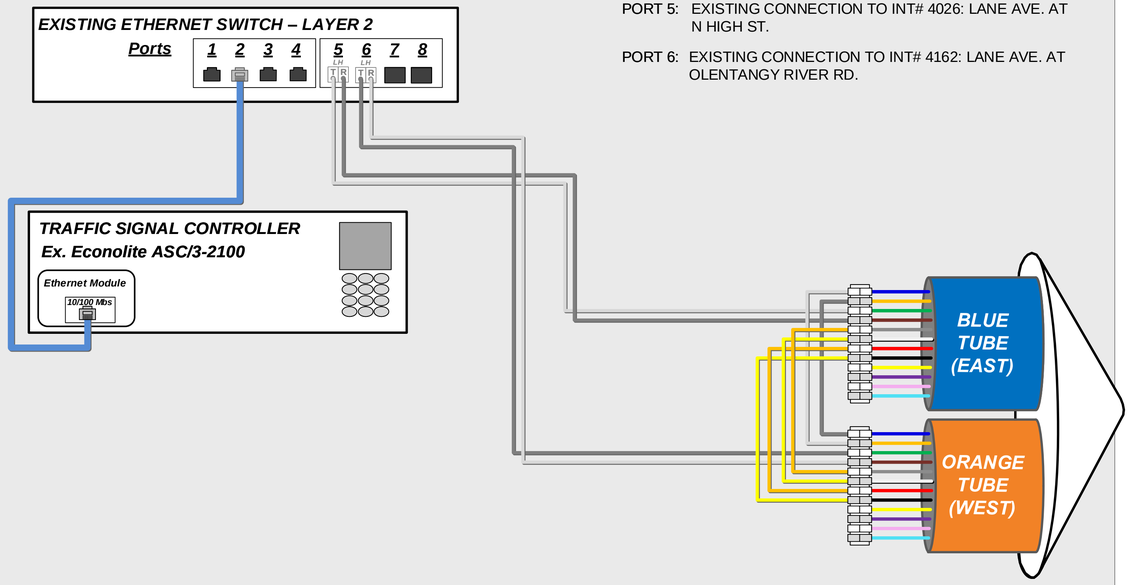
CIP: 540007 - 100012
PID NUMBER: 99733

INTS 4161, 4162 AND 4242 PATCH PANELS
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

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TRAFFIC SIGNAL CABINET ASSEMBLY



ETHERNET SWITCH PORT DESTINATION

PORT 5: EXISTING CONNECTION TO INT# 4026: LANE AVE. AT N HIGH ST.

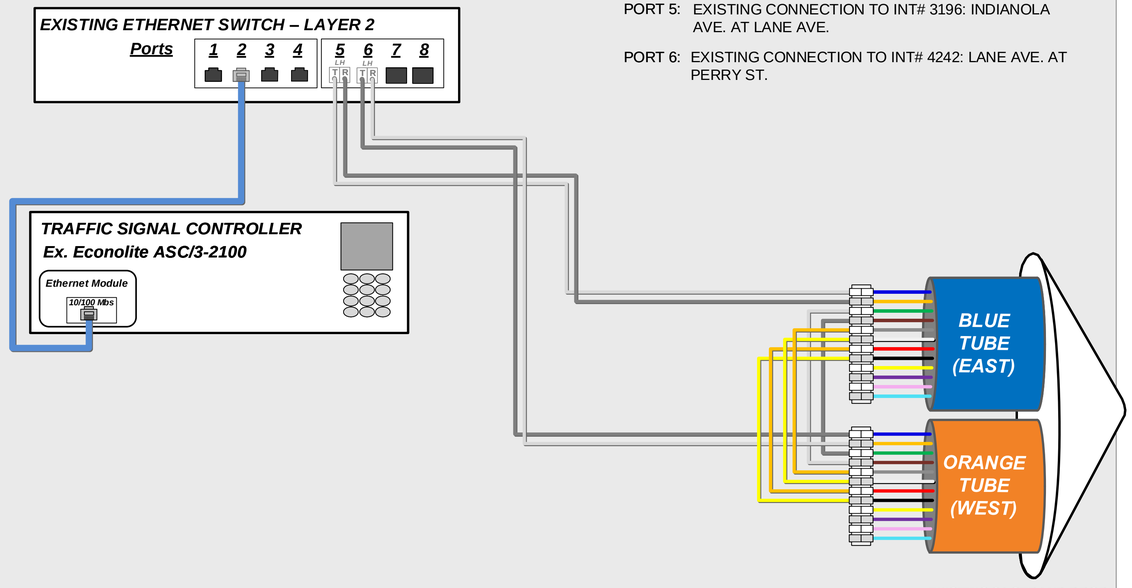
PORT 6: EXISTING CONNECTION TO INT# 4162: LANE AVE. AT OLENTANGY RIVER RD.

INTERSECTION 4053

LANE AVE. AT TUTTLE PARK PL.
REFER TO SHEET 621 FOR COMM OVERVIEW DETAILS

EXISTING PATCH PANEL ENCLOSURE – 24 TERMINATION

TRAFFIC SIGNAL CABINET ASSEMBLY



ETHERNET SWITCH PORT DESTINATION

PORT 5: EXISTING CONNECTION TO INT# 3196: INDIANOLA AVE. AT LANE AVE.

PORT 6: EXISTING CONNECTION TO INT# 4242: LANE AVE. AT PERRY ST.

INTERSECTION 4052

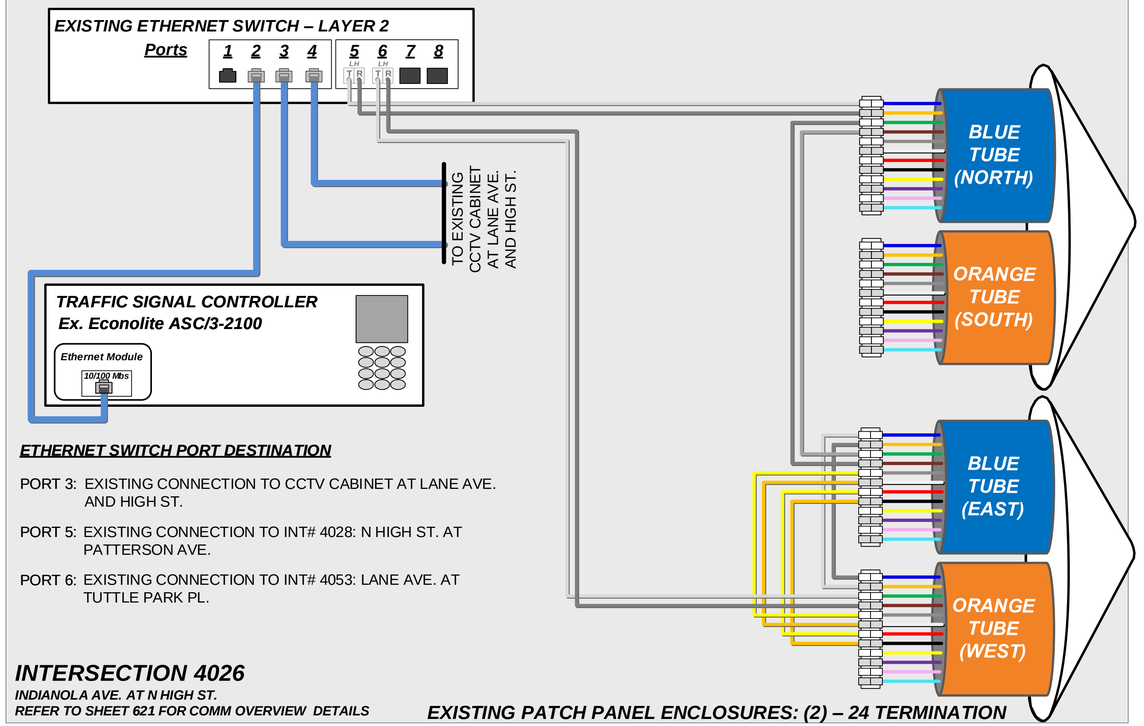
LANE AVE. AT NEIL AVE.
REFER TO SHEET 621 FOR COMM OVERVIEW DETAILS

EXISTING PATCH PANEL ENCLOSURE – 24 TERMINATION

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- LH/ZX (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

TRAFFIC SIGNAL CABINET ASSEMBLY



ETHERNET SWITCH PORT DESTINATION

PORT 3: EXISTING CONNECTION TO CCTV CABINET AT LANE AVE. AND HIGH ST.

PORT 5: EXISTING CONNECTION TO INT# 4028: N HIGH ST. AT PATTERSON AVE.

PORT 6: EXISTING CONNECTION TO INT# 4053: LANE AVE. AT TUTTLE PARK PL.

INTERSECTION 4026

INDIANOLA AVE. AT N HIGH ST.
REFER TO SHEET 621 FOR COMM OVERVIEW DETAILS

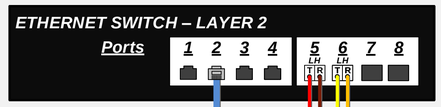
EXISTING PATCH PANEL ENCLOSURES: (2) – 24 TERMINATION

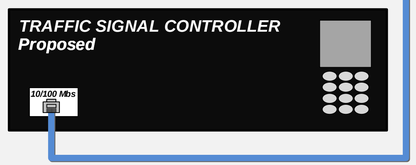
CIP: 540007 - 100012
PID NUMBER: 99733

INTS 4053, 4052 AND 4026 PATCH PANELS
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

TRAFFIC SIGNAL CABINET ASSEMBLY

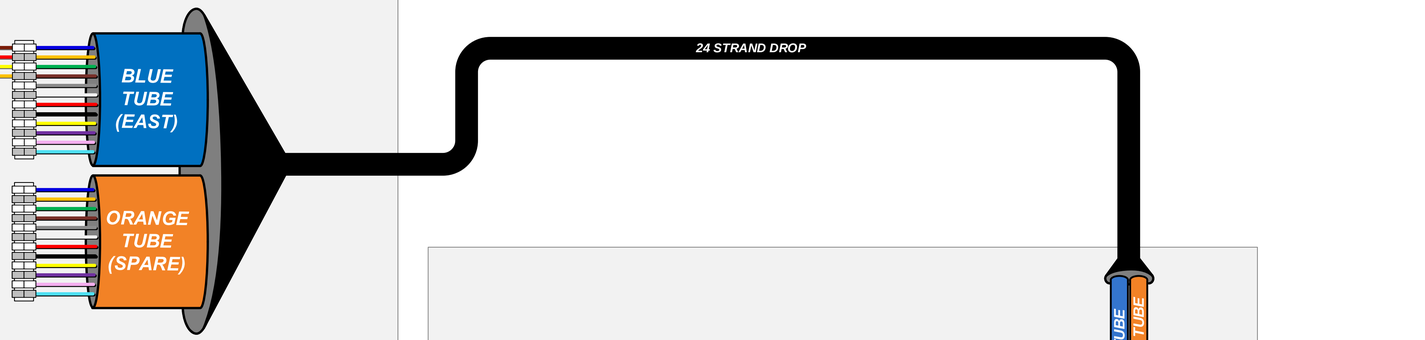




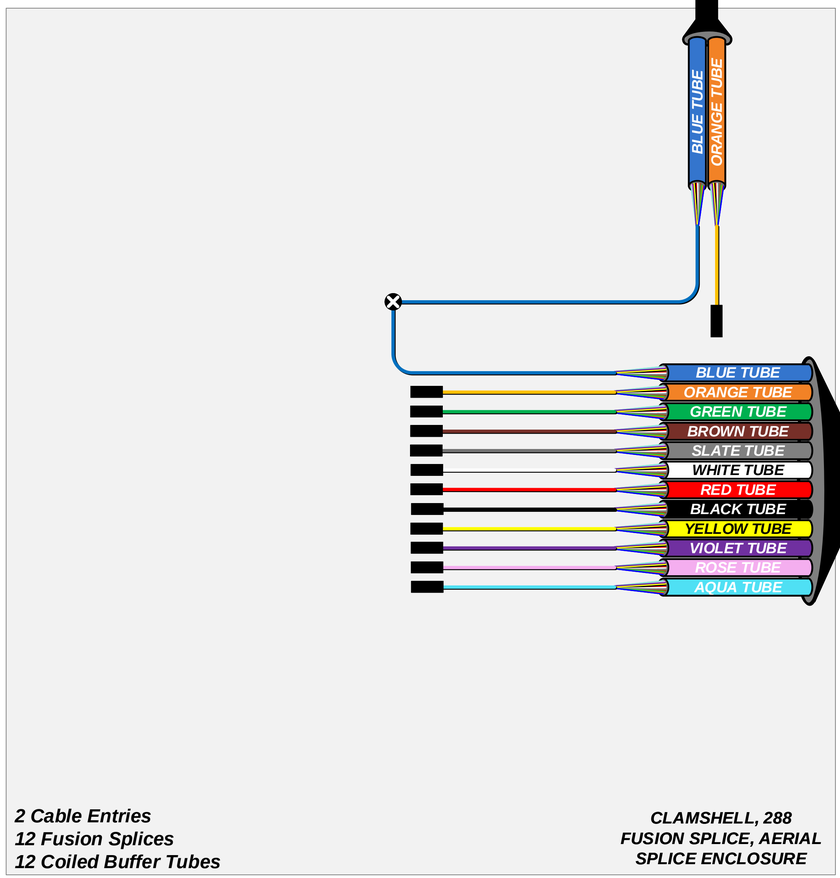
ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 3095: CHAMPION AVE. / JOYCE AVE. AT LEONARD AVE.
SEE SHEET 750

PORT 6: INT# 3097: LEONARD AVE. AT TAYLOR AVE.
SEE SHEET 751



PATCH PANEL ENCLOSURE – 24 TERMINATION



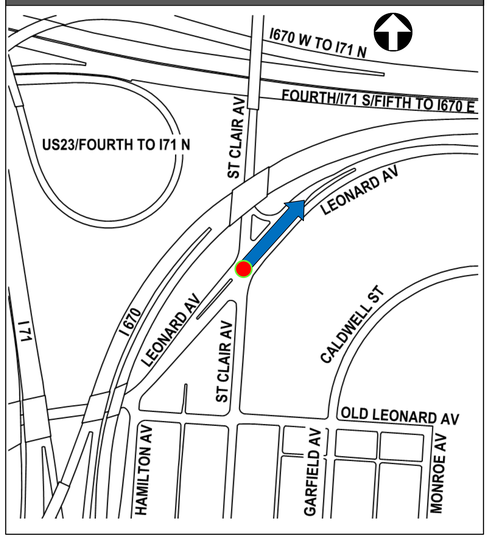
2 Cable Entries
12 Fusion Splices
12 Coiled Buffer Tubes

CLAMSHELL, 288 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- LH/ZX (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 3094

REFER TO SHEET 479 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 622 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100012
PID NUMBER: 99733

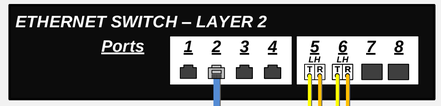
INT# 3094: LEONARD AVE. AT ST CLAIR AVE.
COMMUNICATIONS DIAGRAM

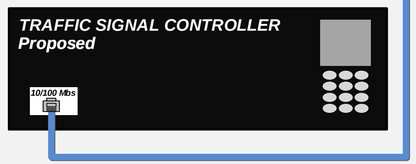
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

749
915

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TRAFFIC SIGNAL CABINET ASSEMBLY

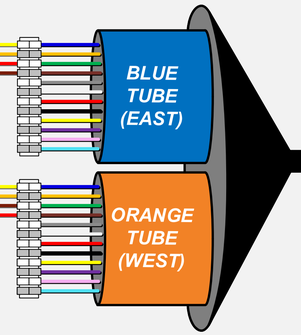


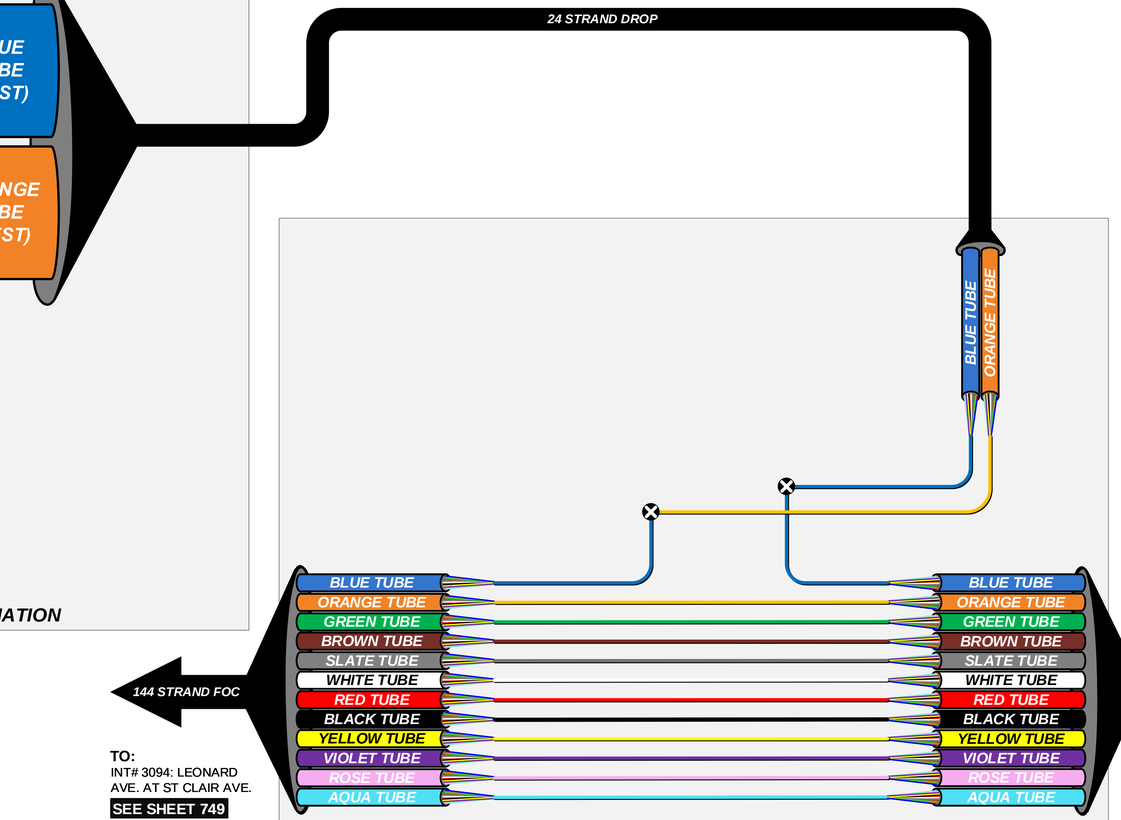


ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 3223: I-670 EB AT LEONARD AVE.
SEE SHEET 752

PORT 6: INT# 3094: LEONARD AVE. AT ST CLAIR AVE.
SEE SHEET 749





TO:
INT# 3094: LEONARD AVE. AT ST CLAIR AVE.
SEE SHEET 749

TO:
INT# 3097: LEONARD AVE. AT TAYLOR AVE.
SEE SHEET 751

3 Cable Entries
24 Fusion Splices
11 Buffer Tubes Passed Through Unspliced

CLAMSHELL, 288 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

PATCH PANEL ENCLOSURE – 24 TERMINATION

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- LH/ZX (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 3095
REFER TO SHEET 482 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 622 FOR COMM OVERVIEW DETAILS

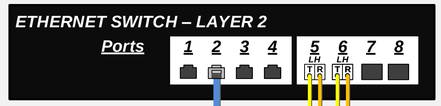
CIP: 540007 - 100012
PID NUMBER: 99733

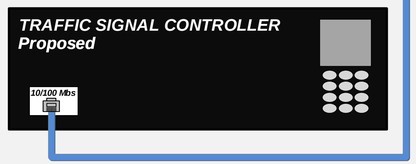
INT# 3095: CHAMPION AVE. / JOYCE AVE. AT LEONARD AVE.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

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TRAFFIC SIGNAL CABINET ASSEMBLY

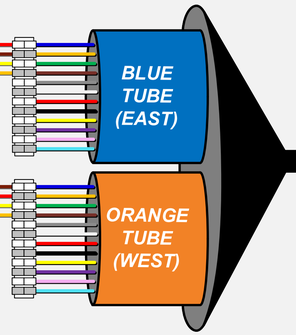


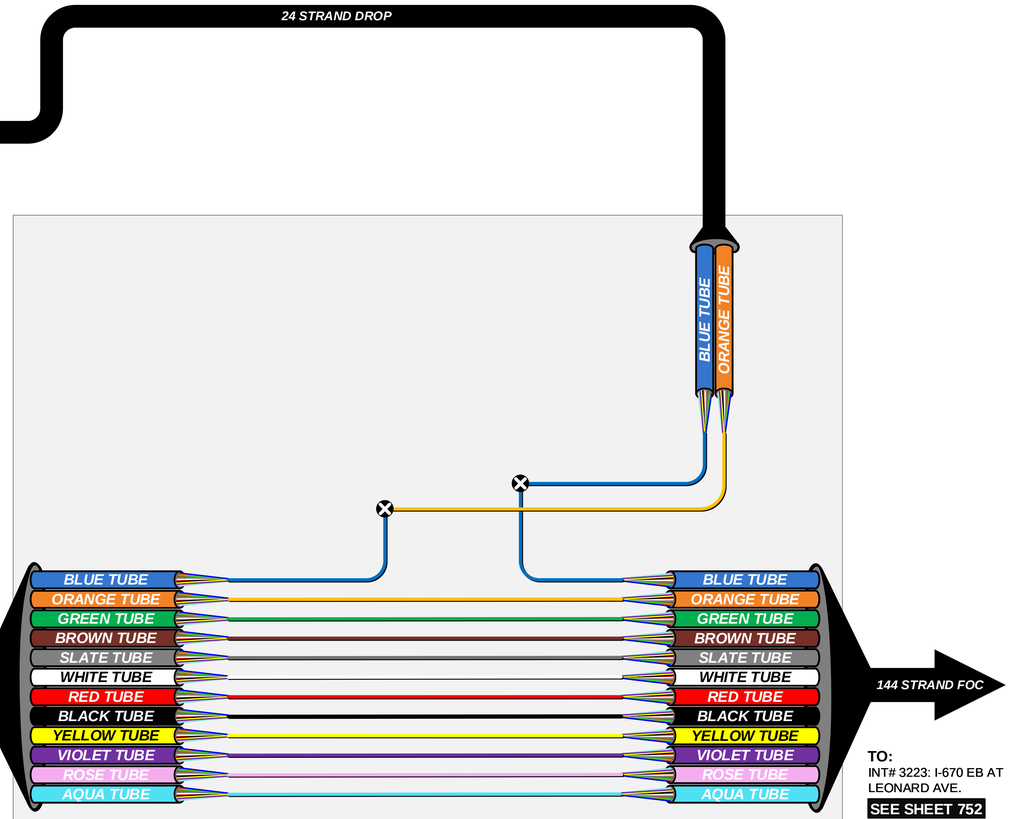


ETHERNET SWITCH PORT DESTINATION

PORT 5: EXISTING COMMUNICATION NODE# 670006.5: I-670 AT LEONARD AVE.
SEE SHEET 912

PORT 6: INT# 3094: LEONARD AVE. AT ST CLAIR AVE.
SEE SHEET 749





PATCH PANEL ENCLOSURE – 24 TERMINATION

TO:
INT# 3095: CHAMPION AVE. / JOYCE AVE. AT LEONARD AVE.
SEE SHEET 750

TO:
INT# 3223: I-670 EB AT LEONARD AVE.
SEE SHEET 752

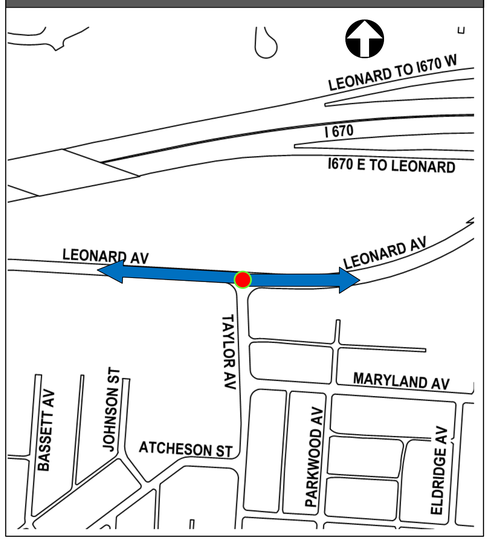
3 Cable Entries
24 Fusion Splices
11 Buffer Tubes Passed Through Unspliced

CLAMSHELL, 288 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 3097
REFER TO SHEET 485 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 622 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100012
PID NUMBER: 99733

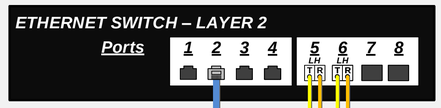
INT# 3097: LEONARD AVE. AT TAYLOR AVE.
COMMUNICATIONS DIAGRAM

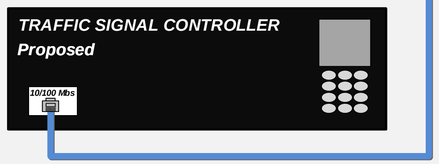
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

751
915

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TRAFFIC SIGNAL CABINET ASSEMBLY

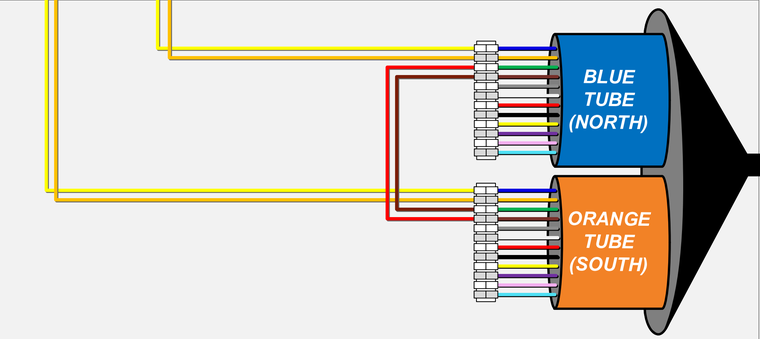




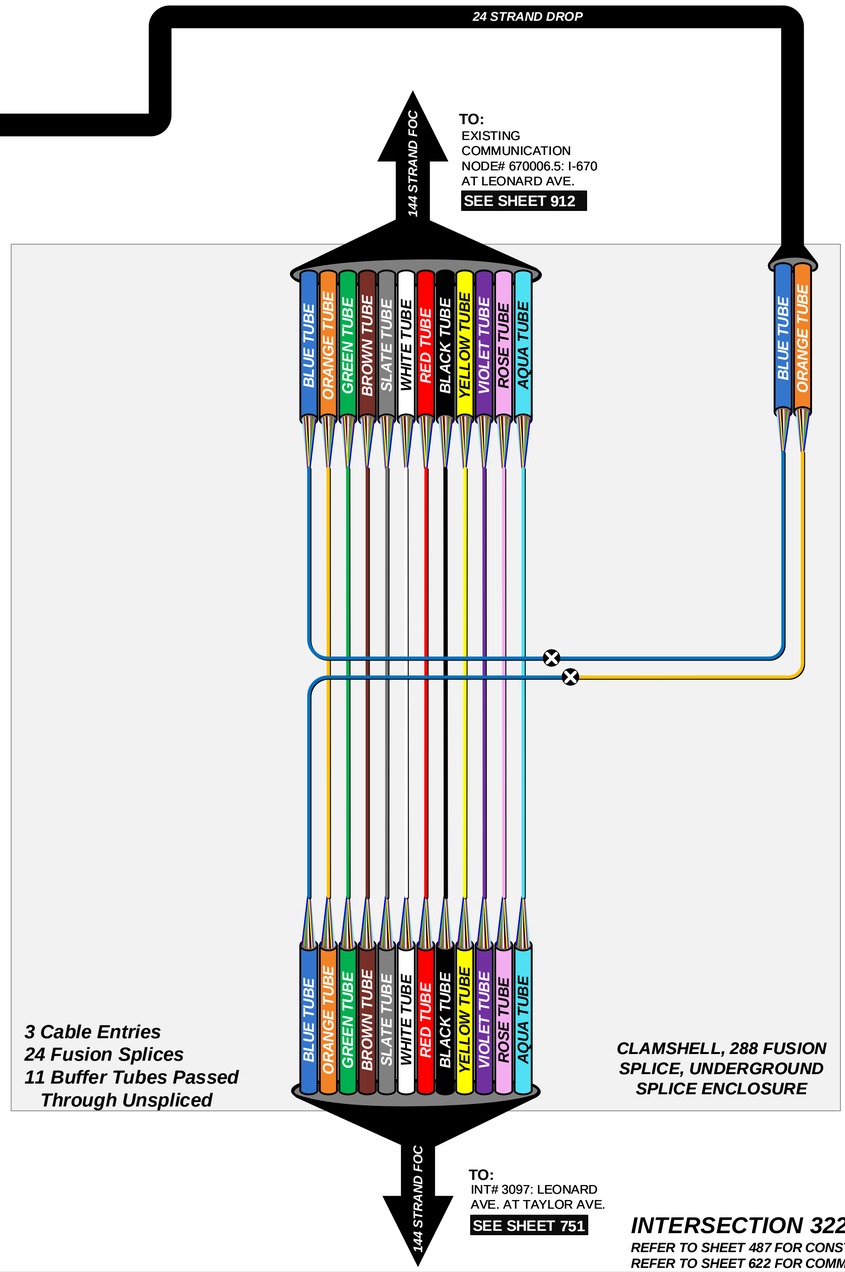
ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 3098: FIFTH AVE. AT LEONARD AVE.
SEE SHEET 755

PORT 6: INT# 3095: CHAMPION AVE. / JOYCE AVE. AT LEONARD AVE.
SEE SHEET 750



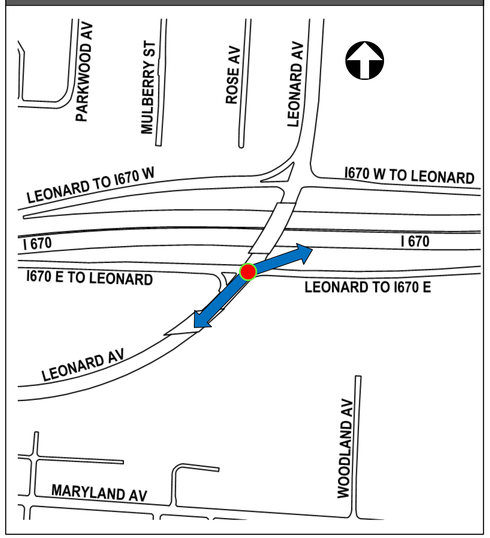
PATCH PANEL ENCLOSURE – 24 TERMINATION



LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- LH/ZX T R — GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 3223

REFER TO SHEET 487 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 622 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100012
PID NUMBER: 99733

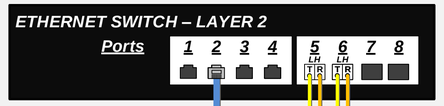
INT# 3223: I-670 EB AT LEONARD AVE.
COMMUNICATIONS DIAGRAM

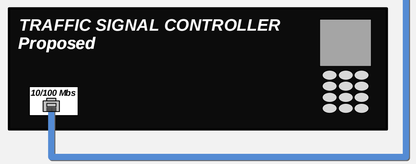
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

752
915

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TRAFFIC SIGNAL CABINET ASSEMBLY

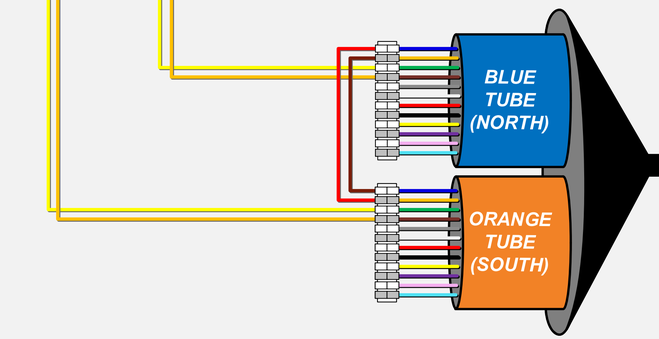


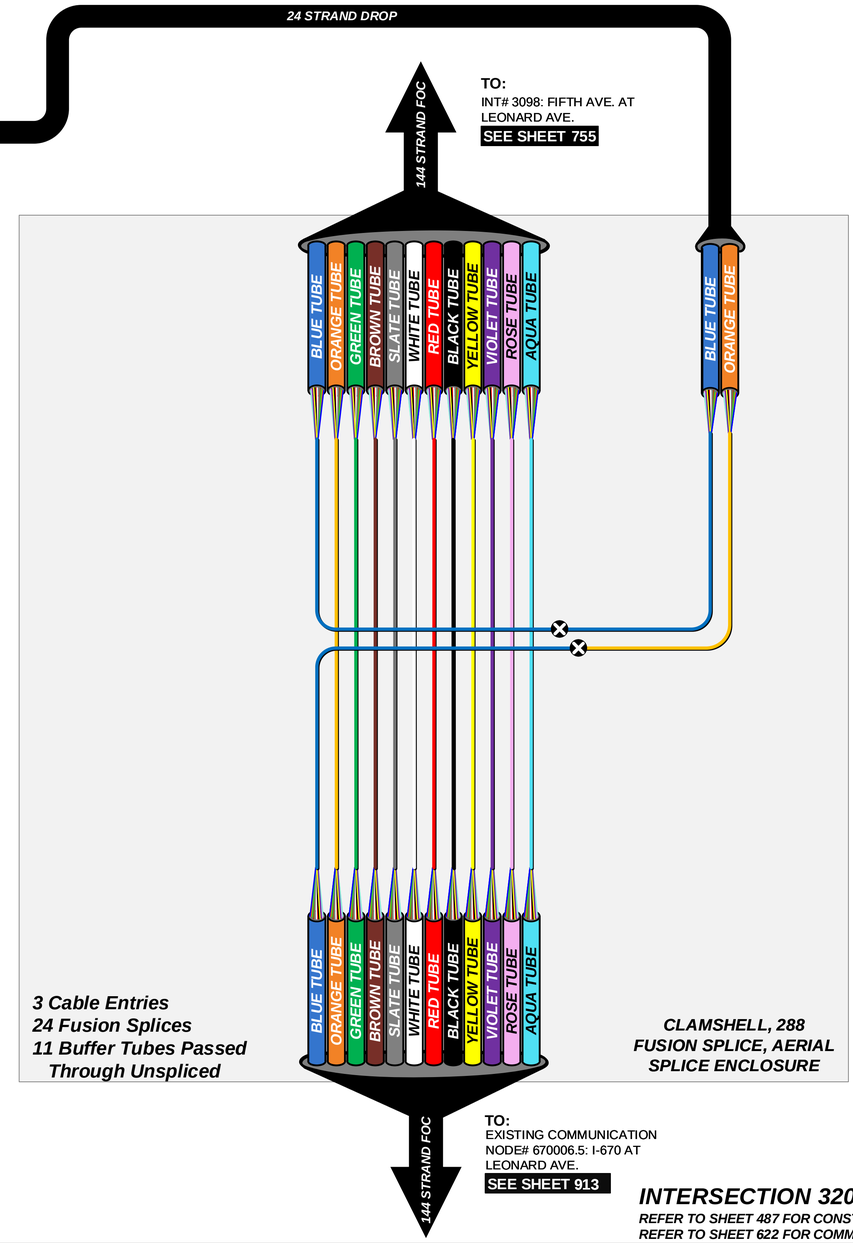


ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 3122: FIFTH AVE. AT JOYCE AVE.
SEE SHEET 754

PORT 6: EXISTING COMMUNICATION NODE# 670006.5: I-670 AT LEONARD AVE.
SEE SHEET 912





3 Cable Entries
24 Fusion Splices
11 Buffer Tubes Passed Through Unspliced

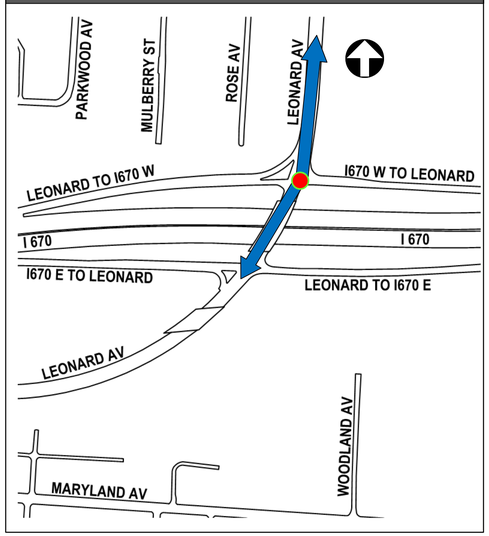
CLAMSHELL, 288 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

PATCH PANEL ENCLOSURE – 24 TERMINATION

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- *LH/ZX* GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 3207

REFER TO SHEET 487 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 622 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100012
PID NUMBER: 99733

INT# 3207: I-670 WB AT LEONARD AVE.
COMMUNICATIONS DIAGRAM

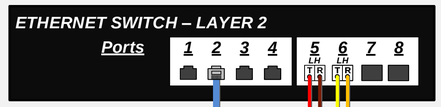
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

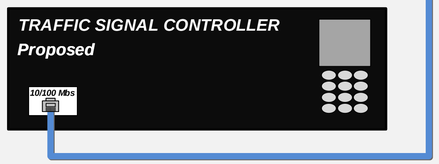
753
915

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TRAFFIC SIGNAL CABINET ASSEMBLY

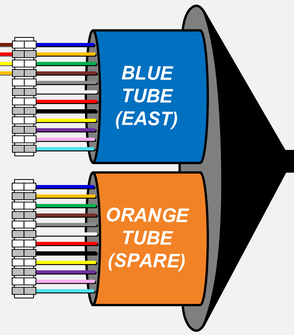


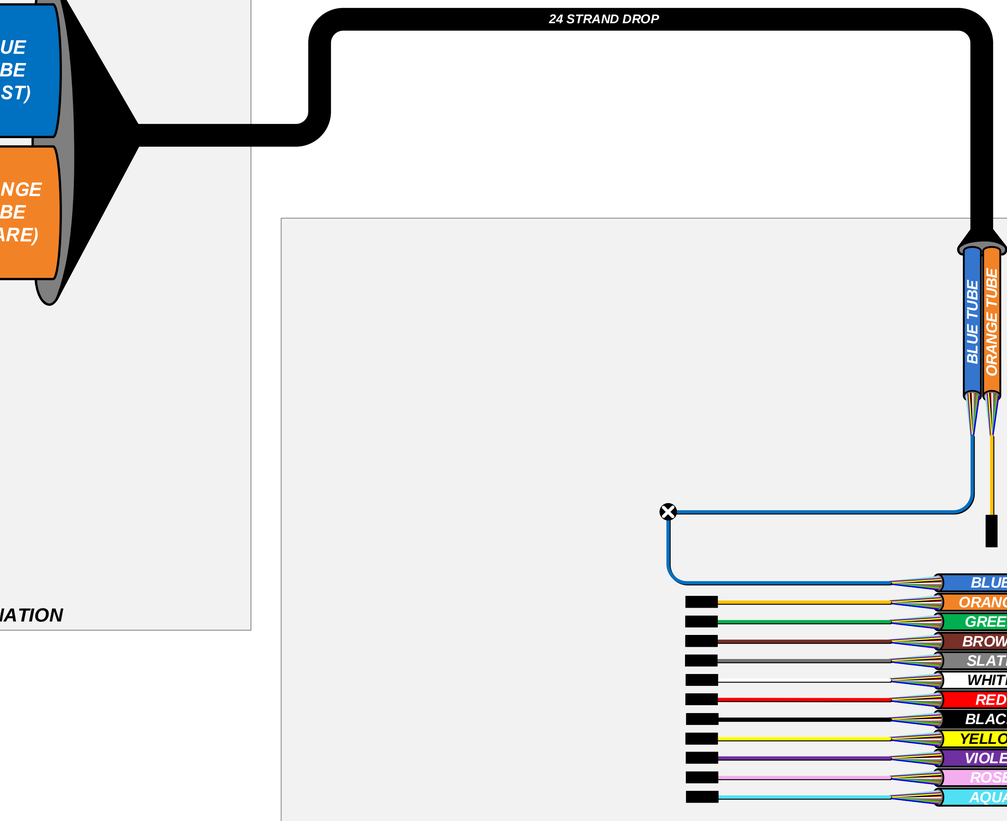


ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 3098: FIFTH AVE. AT LEONARD AVE.
SEE SHEET 755

PORT 6: INT# 3207: I-670 WB AT LEONARD AVE.
SEE SHEET 753





2 Cable Entries
12 Fusion Splices
12 Coiled Buffer Tubes

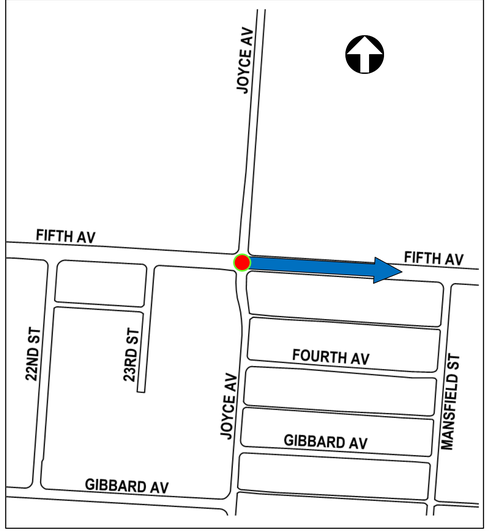
CLAMSHELL, 288 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

PATCH PANEL ENCLOSURE – 24 TERMINATION

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- LH/ZX (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 3122

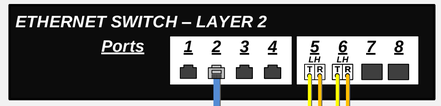
REFER TO SHEET 493 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 622 FOR COMM OVERVIEW DETAILS

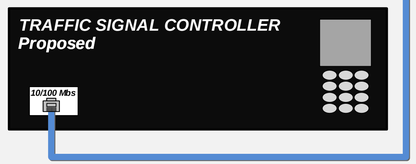
CIP: 540007 - 100012
PID NUMBER: 99733

INT# 3122: FIFTH AVE. AT JOYCE AVE.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

TRAFFIC SIGNAL CABINET ASSEMBLY

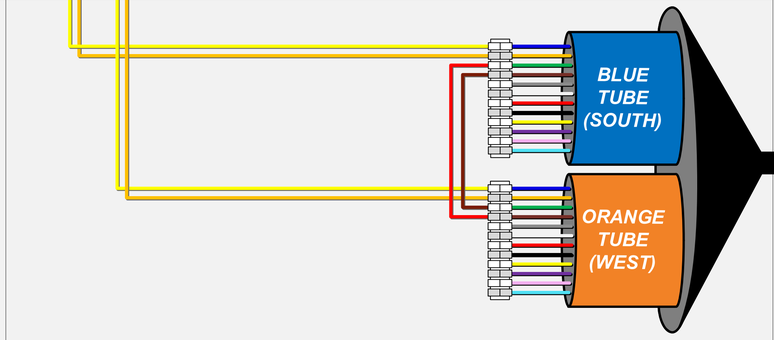




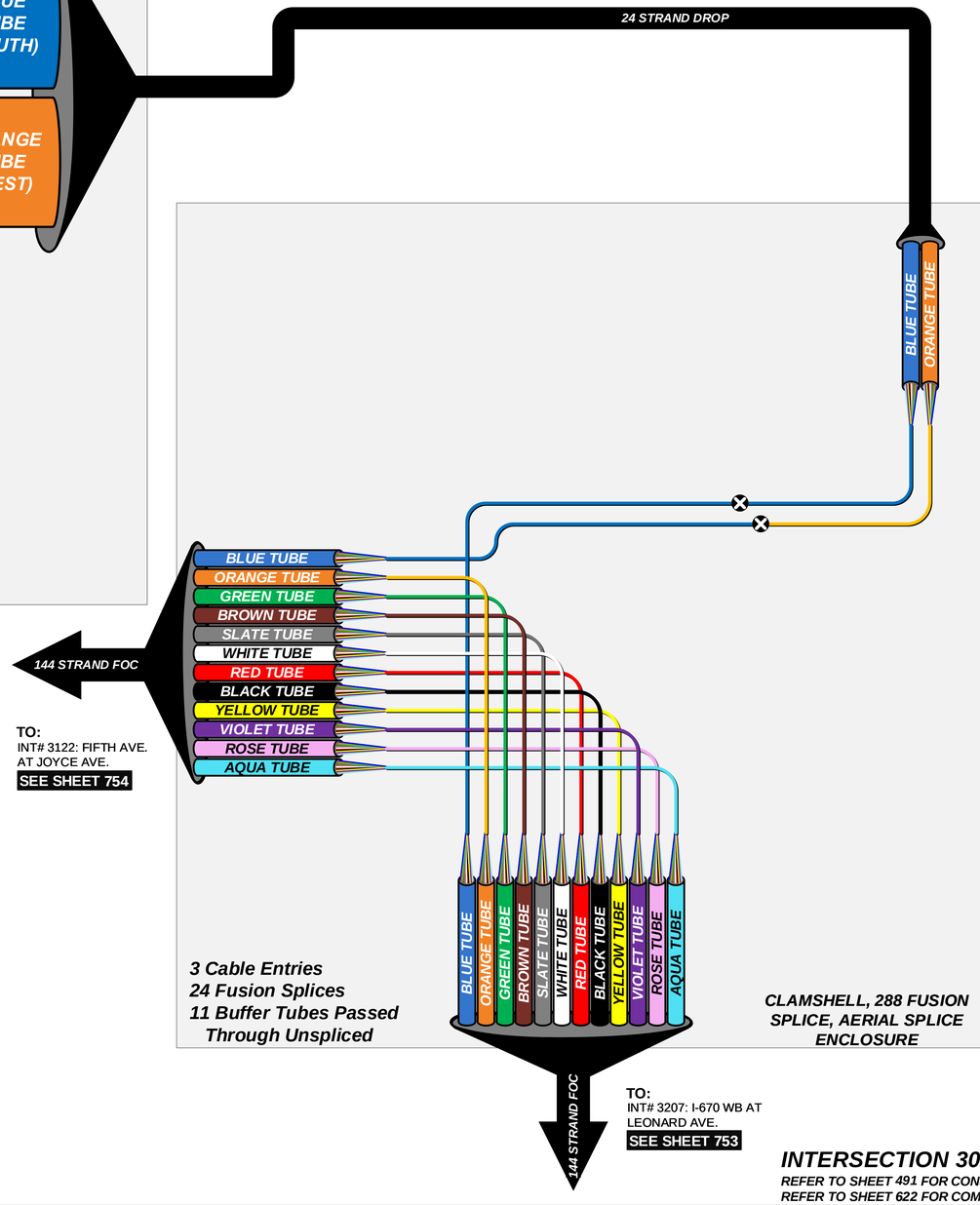
ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 3223: I-670 EB AT LEONARD AVE.
SEE SHEET 752

PORT 6: INT# 3122: FIFTH AVE. AT JOYCE AVE.
SEE SHEET 754



PATCH PANEL ENCLOSURE – 24 TERMINATION



TO:
INT# 3122: FIFTH AVE.
AT JOYCE AVE.
SEE SHEET 754

3 Cable Entries
24 Fusion Splices
11 Buffer Tubes Passed Through Unspliced

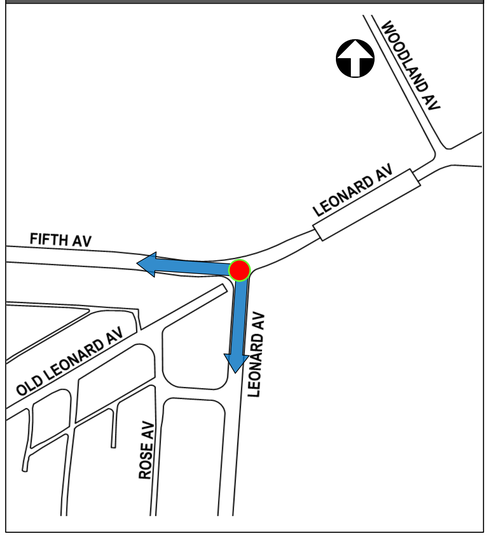
CLAMSHELL, 288 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

TO:
INT# 3207: I-670 WB AT LEONARD AVE.
SEE SHEET 753

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- LH/ZX (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 3098

REFER TO SHEET 491 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 622 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100012
PID NUMBER: 99733

INT# 3098: FIFTH AVE. AT LEONARD AVE.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

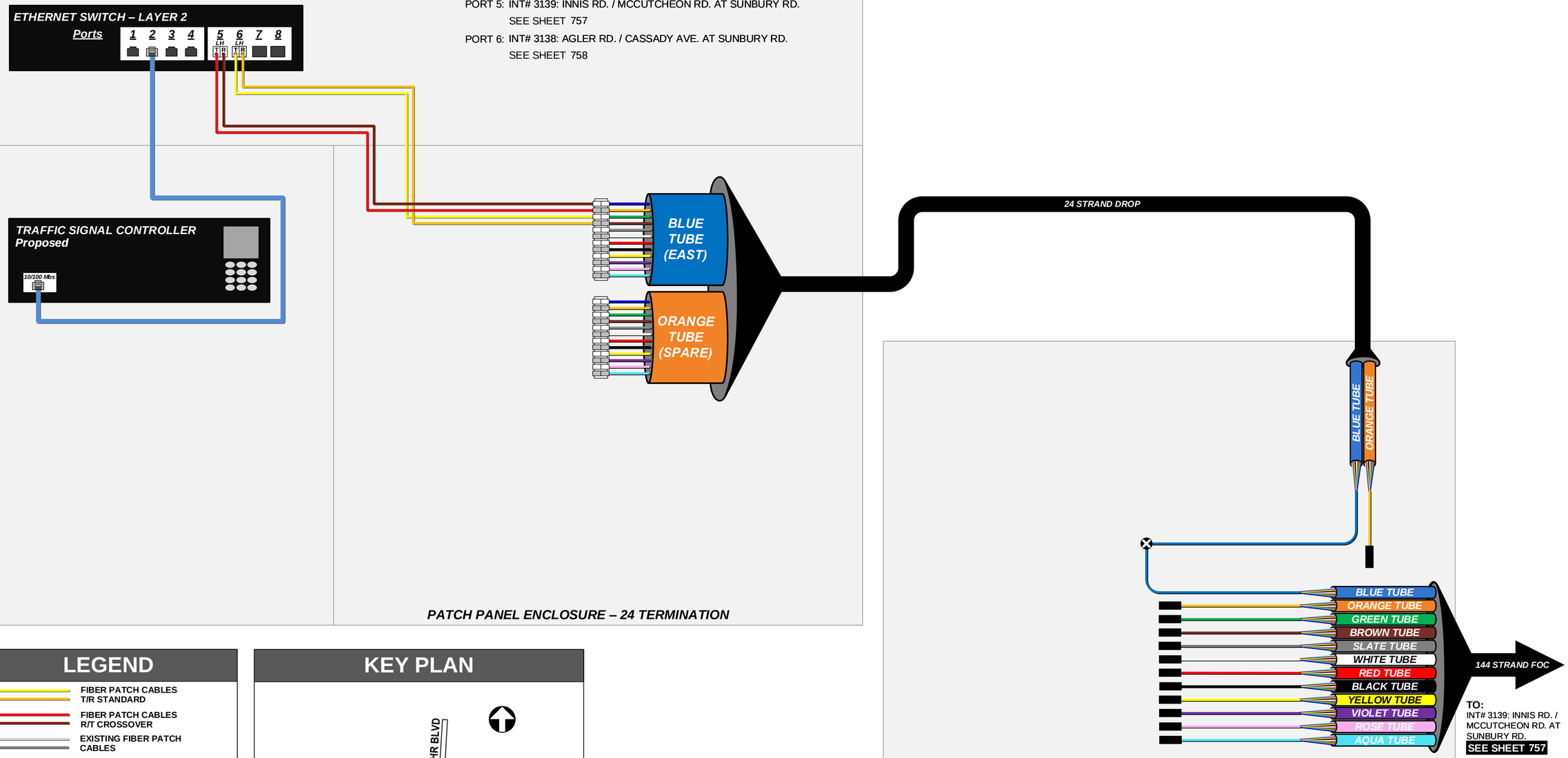
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TRAFFIC SIGNAL CABINET ASSEMBLY

ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 3139: INNIS RD. / MCCUTCHEON RD. AT SUNBURY RD.
SEE SHEET 757

PORT 6: INT# 3138: AGLER RD. / CASSADY AVE. AT SUNBURY RD.
SEE SHEET 758



PATCH PANEL ENCLOSURE – 24 TERMINATION

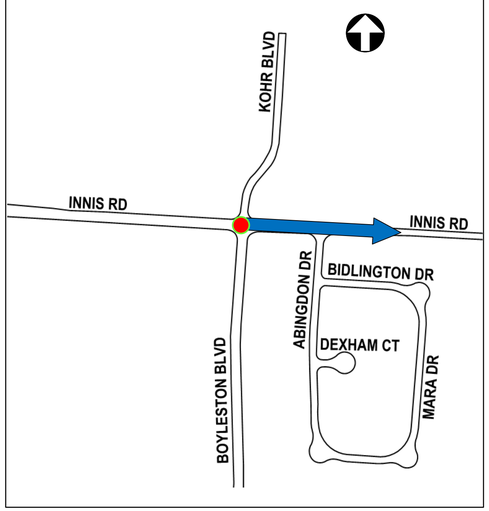
2 Cable Entries
12 Fusion Splices
12 Coiled Buffer Tubes

CLAMSHELL, 288 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- LH/ZX T R GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 3239

REFER TO SHEET 501 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 623 FOR COMM OVERVIEW DETAILS

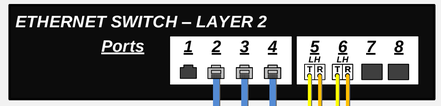
CIP: 540007 - 100012
PID NUMBER: 99733

INT# 3239: BOYLESTON BLVD. AT INNIS RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

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TRAFFIC SIGNAL CABINET ASSEMBLY

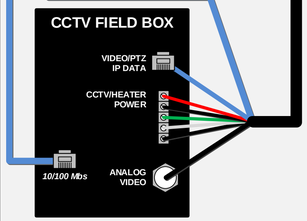




ETHERNET SWITCH PORT DESTINATION

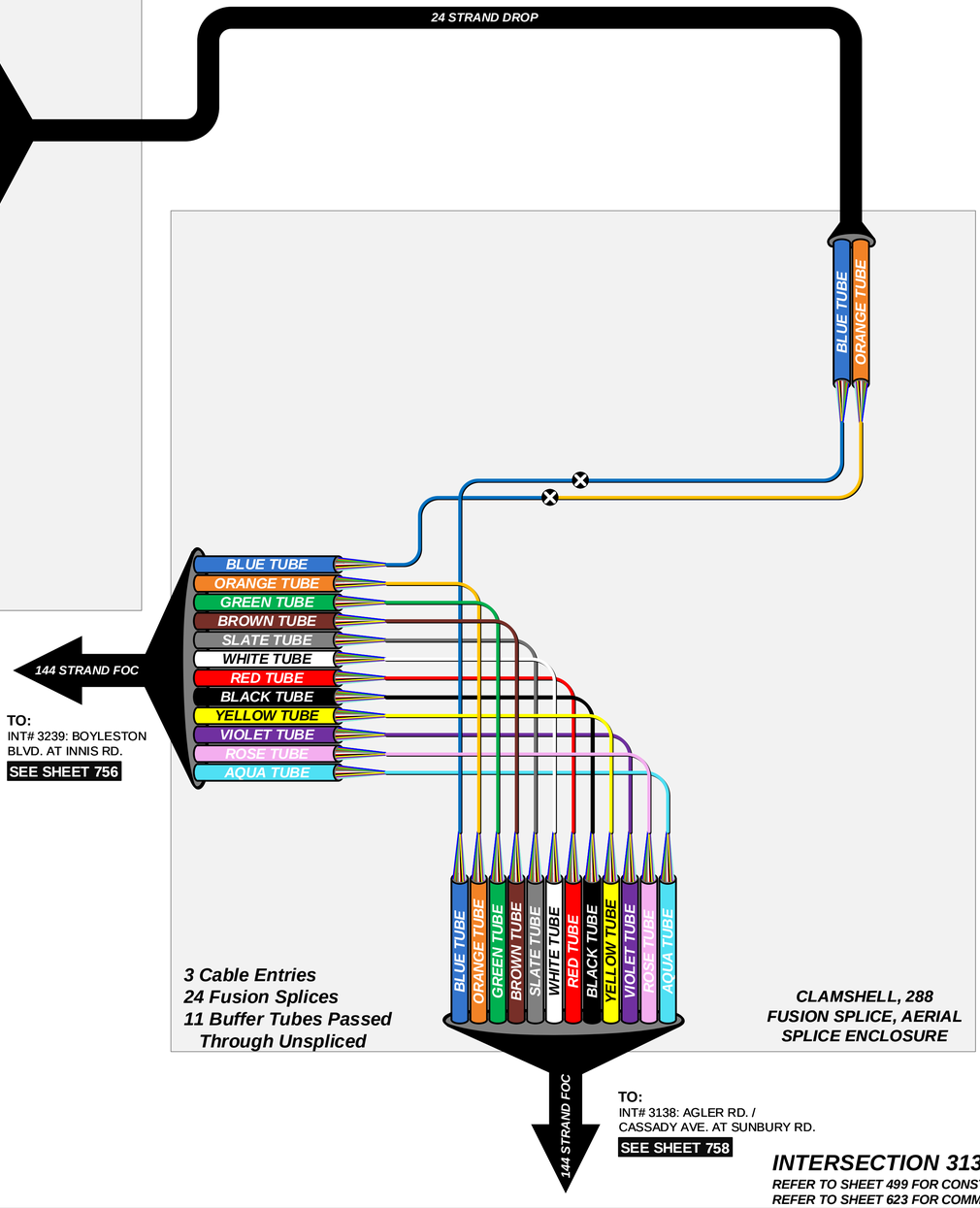
PORT 5: INT# 3128: AGLER RD. AT CLUBHOUSE RD.
SEE SHEET 759

PORT 6: INT# 3239: BOYLESTON BLVD. AT INNIS RD.
SEE SHEET 756



PATCH PANEL ENCLOSURE – 24 TERMINATION





TO:
INT# 3239: BOYLESTON BLVD. AT INNIS RD.
SEE SHEET 756

3 Cable Entries
24 Fusion Splices
11 Buffer Tubes Passed Through Unspliced

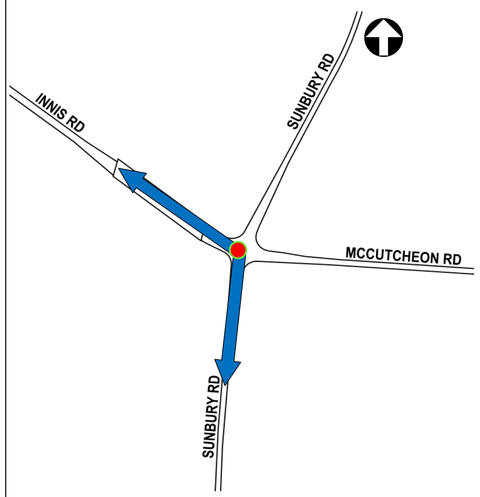
CLAMSHELL, 288 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

TO:
INT# 3138: AGLER RD. / CASSADY AVE. AT SUNBURY RD.
SEE SHEET 758

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- LH/ZX — GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 3139

REFER TO SHEET 499 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 623 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100012
PID NUMBER: 99733

INT# 3139: INNIS RD. / MCCUTCHEON RD. AT SUNBURY RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

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TRAFFIC SIGNAL CABINET ASSEMBLY

REVISED ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 3239: BOYLESTON BLVD. AT INNIS RD.
(Revised) SEE SHEET 756

PORT 6: EXISTING CONNECTION TO INT# SIG4005: AGLER RD. AT PERDUE AVE.

ETHERNET SWITCH – LAYER 2

Ports 1 2 3 4 5 6 7 8 (5, 6: LH, T R)

TERMINAL PORT SERVER

10/100 Mbs | RS232 #1 | RS232 #2

TRAFFIC SIGNAL CONTROLLER
Ex. Econolite ASC/2S-2100

RS232

CCTV FIELD BOX

- VIDEO/PTZ IP DATA
- CCTV/HEATER POWER
- 10/100 Mbs
- ANALOG VIDEO

COMPOSITE CCTV CABLE

PROPOSED CCTV

EXISTING 24 STRAND DROP

144 STRAND FOC

TO:
INT# 3139: INNIS RD. / MCCUTCHEON RD.
AT SUNBURY RD.
SEE SHEET 757

BLUE TUBE (NORTH)

ORANGE TUBE (WEST)

BLUE TUBE | ORANGE TUBE | GREEN TUBE | BROWN TUBE | SLATE TUBE | WHITE TUBE | RED TUBE | BLACK TUBE | YELLOW TUBE | VIOLET TUBE | ROSE TUBE | AQUA TUBE

BLUE TUBE | ORANGE TUBE

EXISTING PATCH PANEL ENCLOSURE – 24 TERMINATION

EXISTING 144 STRAND FOC

TO:
INT# 3128: AGLER RD.
AT CLUBHOUSE RD.
SEE SHEET 759

BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE
RED TUBE
BLACK TUBE
YELLOW TUBE
VIOLET TUBE
ROSE TUBE
AQUA TUBE

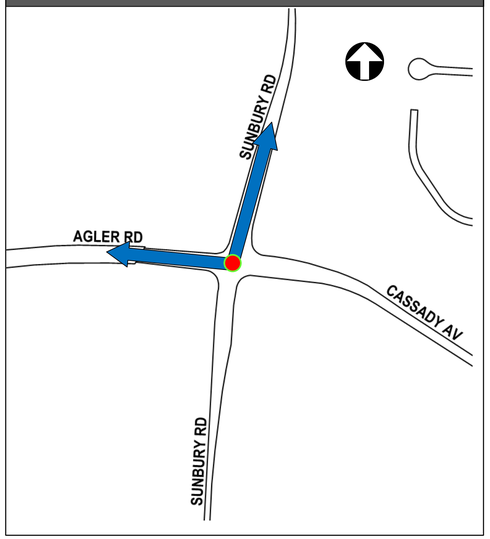
3 Cable Entries
144 Proposed Fusion Splices
156 Total Fusion Splices

EXISTING SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- LH/ZX (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



NOTES.

DISCONNECT EXISTING LC FIBER PATCH CABLES BETWEEN EXISTING PATCH PANEL AND NETWORK SWITCH. REPLACE CONNECTION WITH PATCH CABLES AS SHOWN IN COLOR ON PLAN ABOVE.

INTERSECTION 3138
REFER TO SHEET 497 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 623 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100012
PID NUMBER: 99733

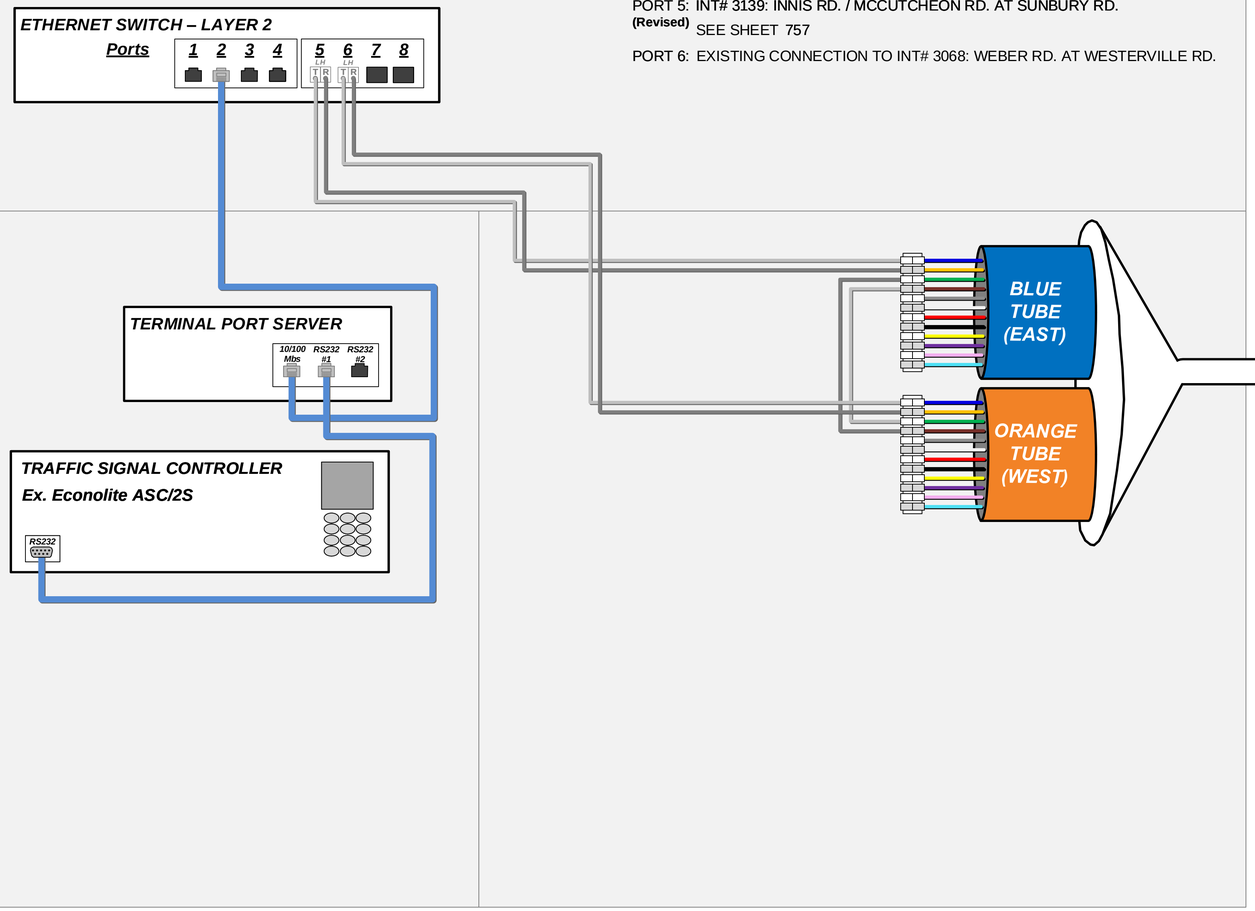
INT# 3138: AGLER RD. / CASSADY AVE. AT SUNBURY RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

758
915

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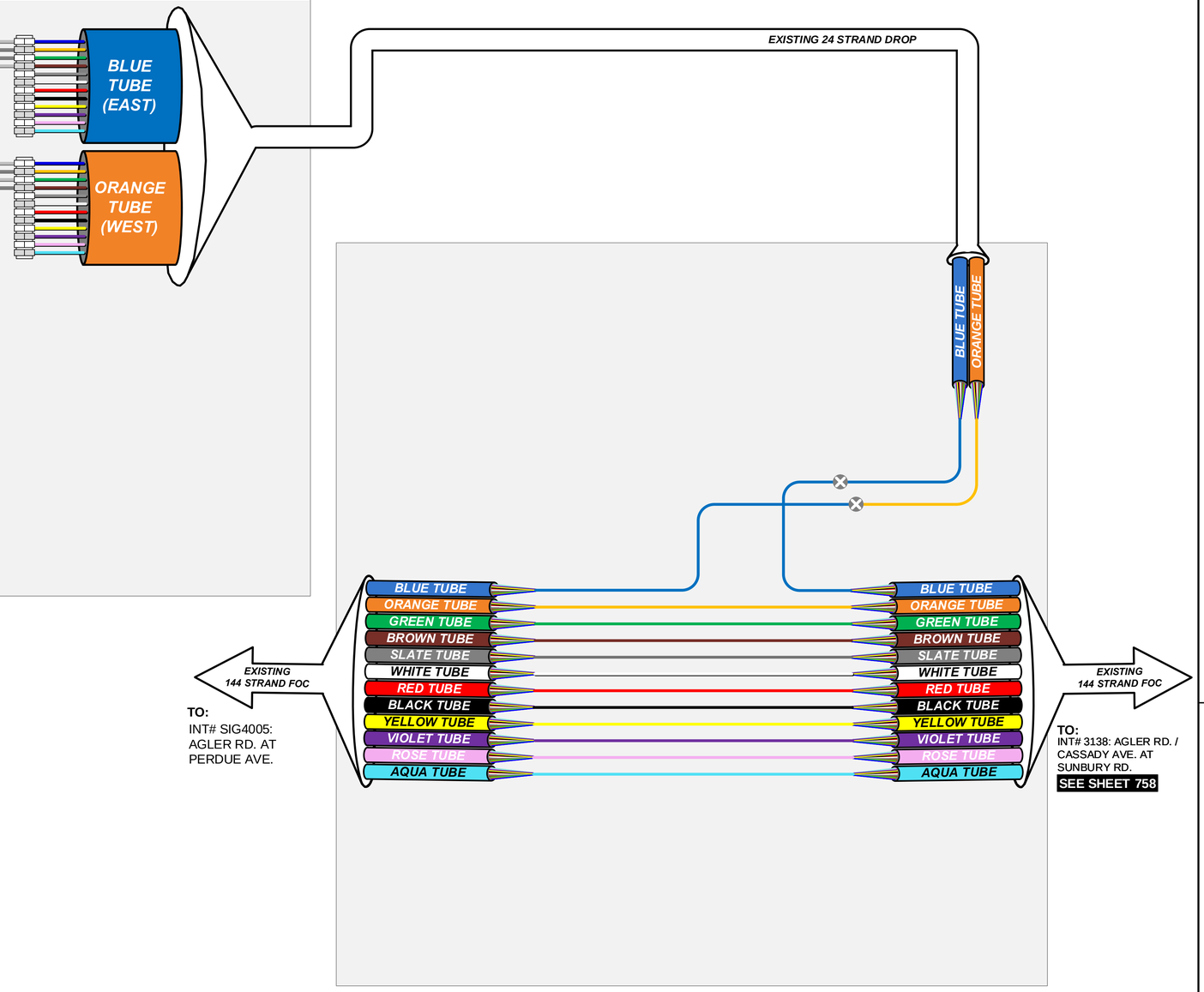
TRAFFIC SIGNAL CABINET ASSEMBLY



ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 3139: INNIS RD. / MCCUTCHEON RD. AT SUNBURY RD.
(Revised) SEE SHEET 757

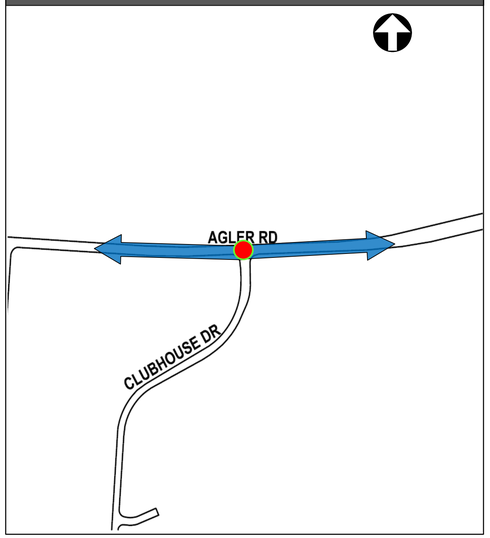
PORT 6: EXISTING CONNECTION TO INT# 3068: WEBER RD. AT WESTERVILLE RD.



LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- LH/ZX (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 3128

REFER TO SHEET 623 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100012
PID NUMBER: 99733

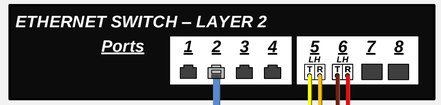
INT# 3128: AGLER RD. AT CLUBHOUSE RD.
COMMUNICATIONS DIAGRAM

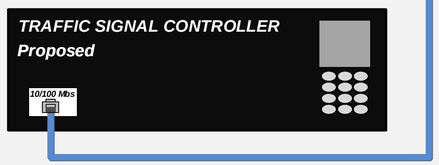
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

759
915

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TRAFFIC SIGNAL CABINET ASSEMBLY

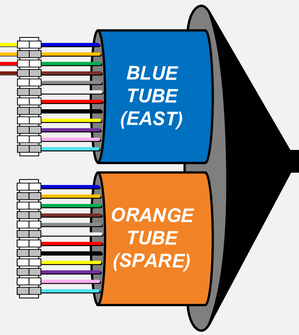


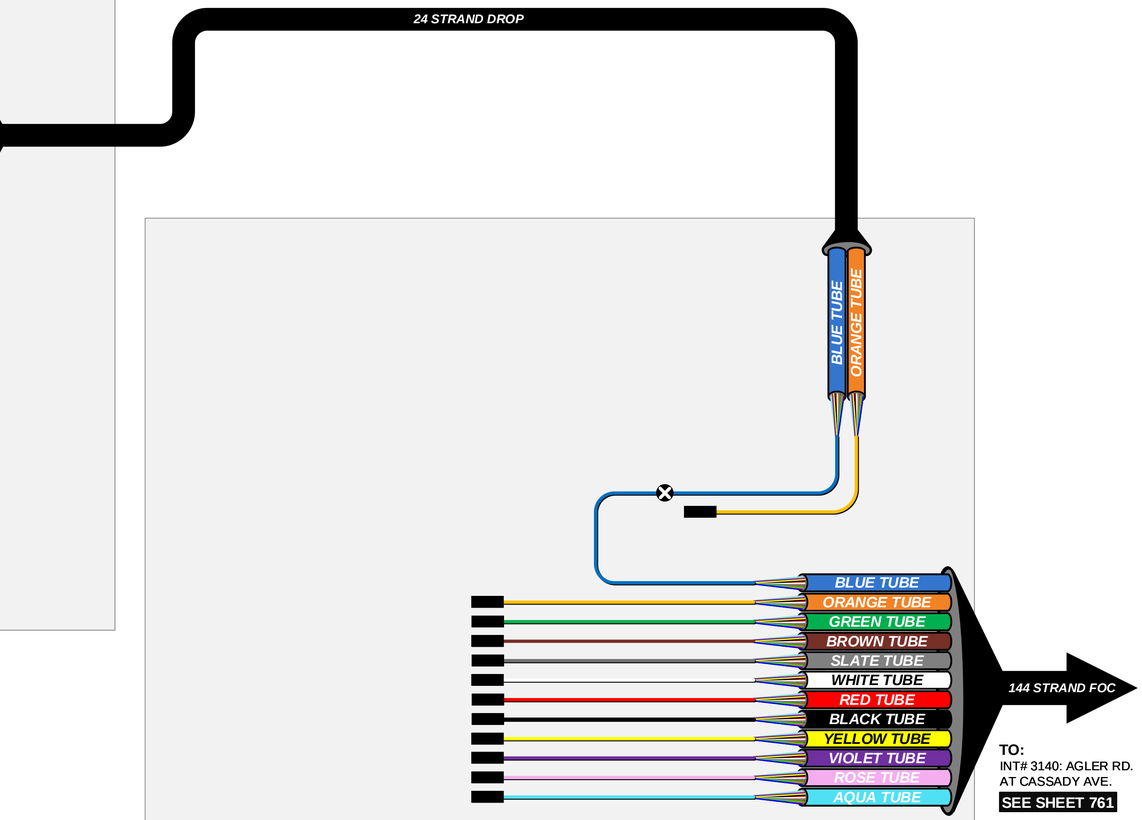


ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 3266: AGLER RD. AT CITYGATE DR.
SEE SHEET 762

PORT 6: INT# 3140: AGLER RD. AT CASSADY AVE.
SEE SHEET 761





PATCH PANEL ENCLOSURE – 24 TERMINATION

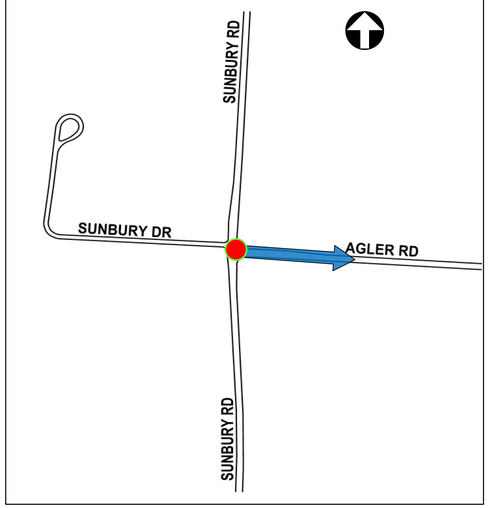
2 Cable Entries
12 Fusion Splices
12 Coiled Buffer Tubes

CLAMSHELL, 288 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION SIG4015

REFER TO SHEET 506 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 623 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100012
PID NUMBER: 99733

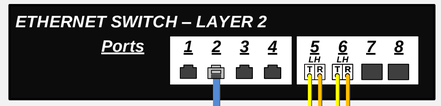
INT# SIG4015: AGLER RD. AT SUNBURY RD. & SUNBURY DR.
COMMUNICATIONS DIAGRAM

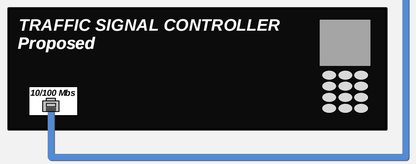
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

760
915

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TRAFFIC SIGNAL CABINET ASSEMBLY

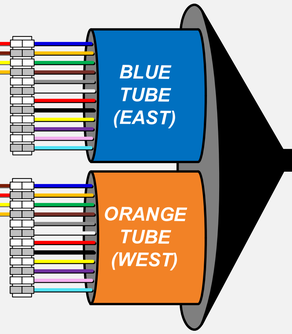


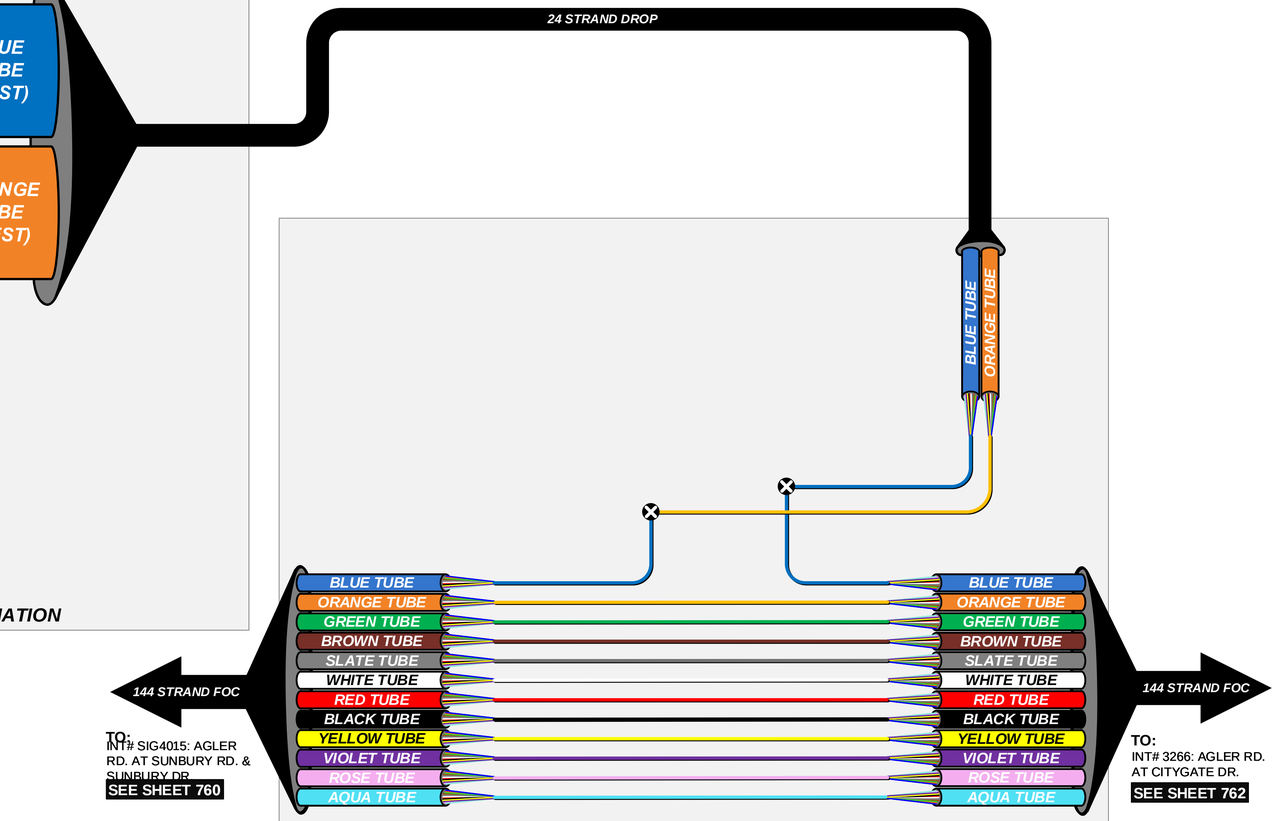


ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 3304: CITYGATE DR. AT STELZER RD.
SEE SHEET 764

PORT 6: INT# SIG4015: AGLER RD. AT SUNBURY RD. & SUNBURY DR.
SEE SHEET 760





TO:
INT# SIG4015: AGLER RD. AT SUNBURY RD. & SUNBURY DR.
SEE SHEET 760

TO:
INT# 3266: AGLER RD. AT CITYGATE DR.
SEE SHEET 762

PATCH PANEL ENCLOSURE – 24 TERMINATION

3 Cable Entries
24 Fusion Splices
11 Buffer Tubes Passed Through Unspliced

CLAMSHELL, 288 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- LH/ZX (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 3140

REFER TO SHEET 507 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 623 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100012
PID NUMBER: 99733

INT# 3140: AGLER RD. AT CASSADY AVE.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

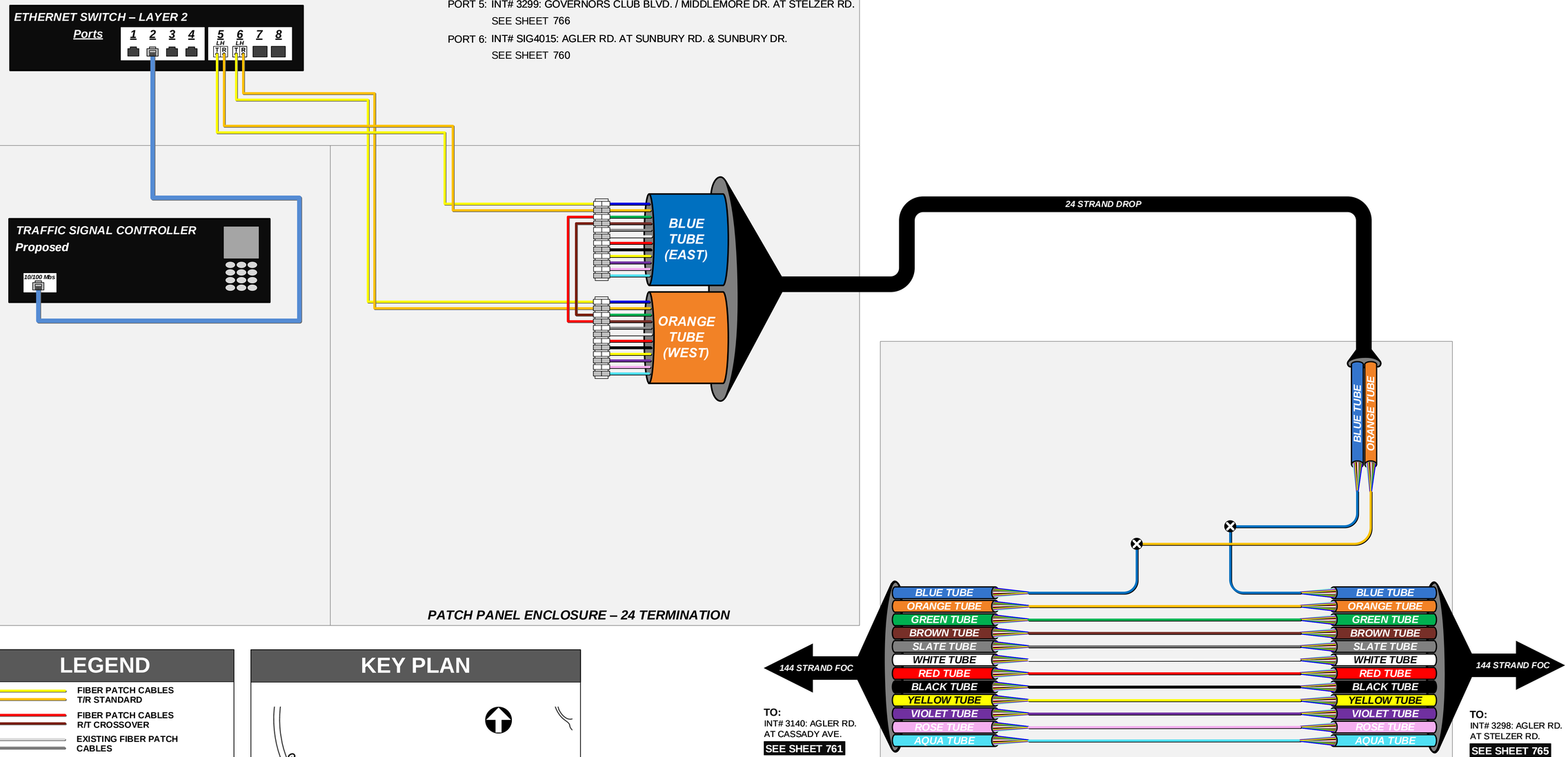
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TRAFFIC SIGNAL CABINET ASSEMBLY

ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 3299: GOVERNORS CLUB BLVD. / MIDDLEMORE DR. AT STELZER RD.
SEE SHEET 766

PORT 6: INT# SIG4015: AGLER RD. AT SUNBURY RD. & SUNBURY DR.
SEE SHEET 760



TO:
INT# 3140: AGLER RD.
AT CASSADY AVE.
SEE SHEET 761

TO:
INT# 3298: AGLER RD.
AT STELZER RD.
SEE SHEET 765

PATCH PANEL ENCLOSURE – 24 TERMINATION

3 Cable Entries
24 Fusion Splices
11 Buffer Tubes Passed Through Unspliced

CLAMSHELL, 288 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- LH/ZX (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 3266
REFER TO SHEET 509 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 623 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100012
PID NUMBER: 99733

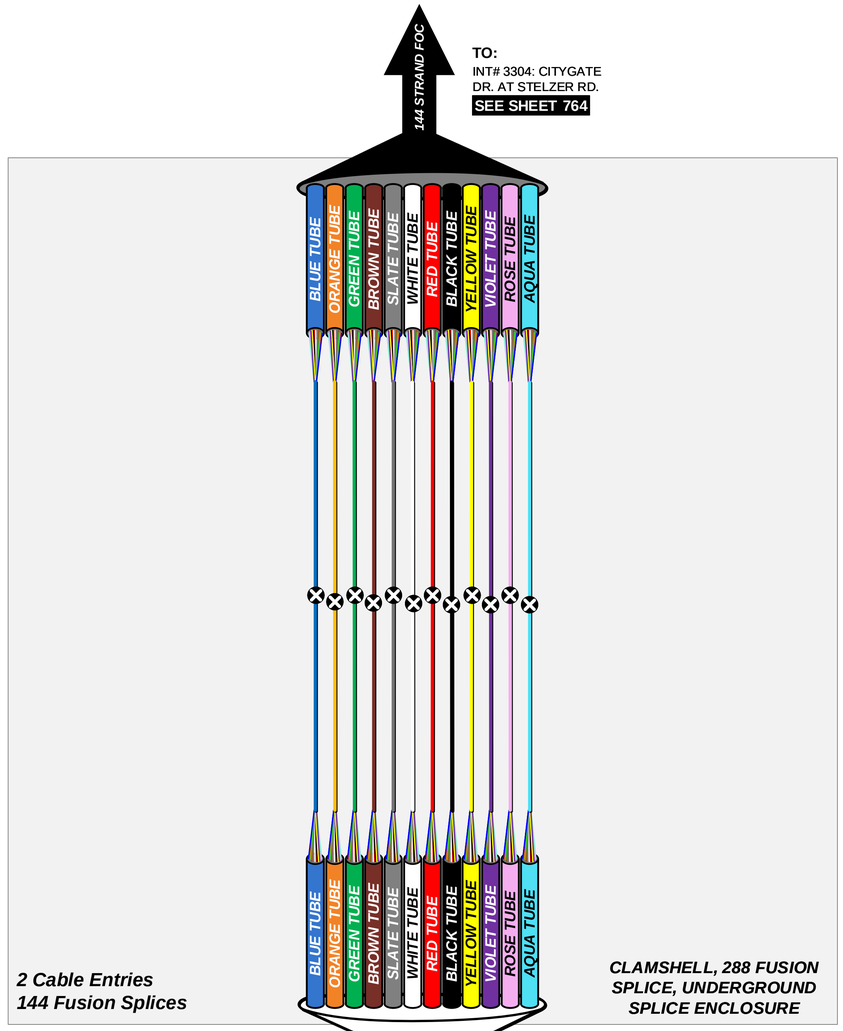
INT# 3266: AGLER RD. AT CITYGATE DR.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

762
915

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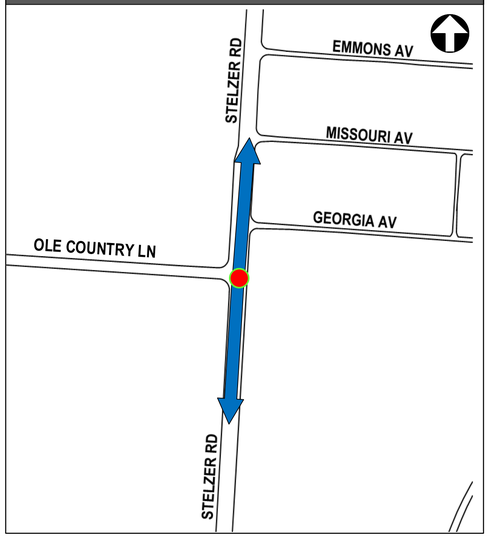
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LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- LH/ZX (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



SPLICE-02

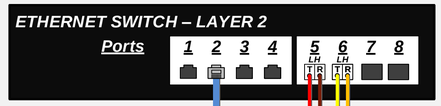
REFER TO SHEET 513 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 623 FOR COMM OVERVIEW DETAILS

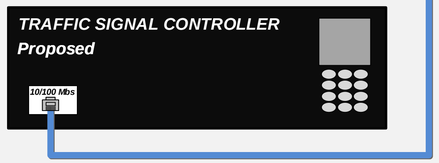
CIP: 540007 - 100012
PID NUMBER: 99733

SPLICE-02: OLE COUNTRY LN. AT STELZER RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

TRAFFIC SIGNAL CABINET ASSEMBLY

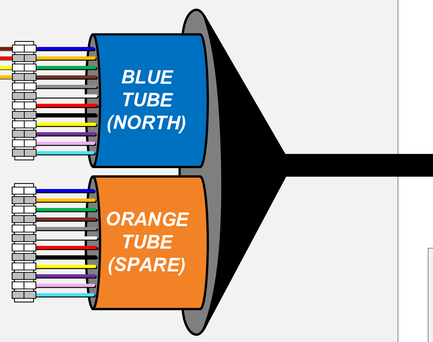




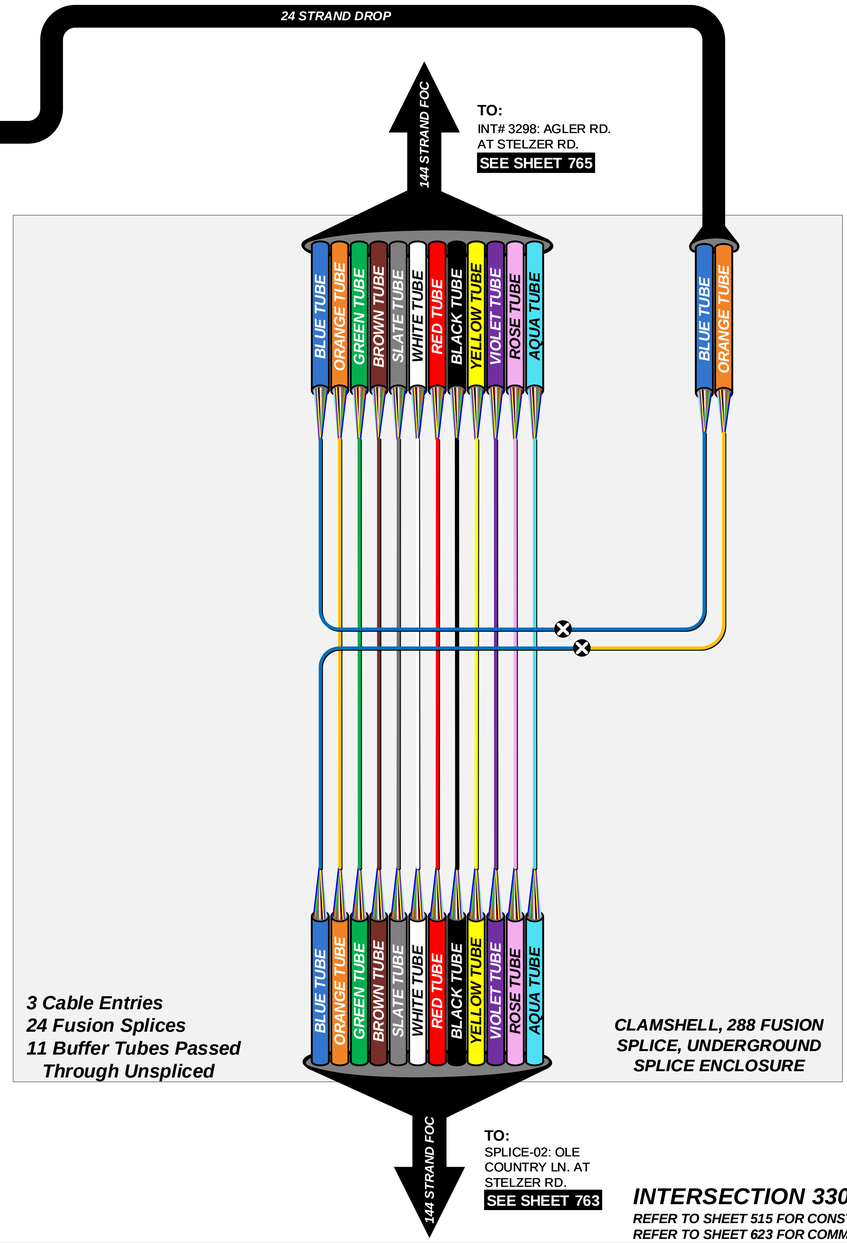
ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 3140: AGLER RD. AT CASSADY AVE.
SEE SHEET 761

PORT 6: EXISTING COMMUNICATION NODE# 670009.0: I-670 AT STELZER RD.
SEE SHEET 914



PATCH PANEL ENCLOSURE – 24 TERMINATION



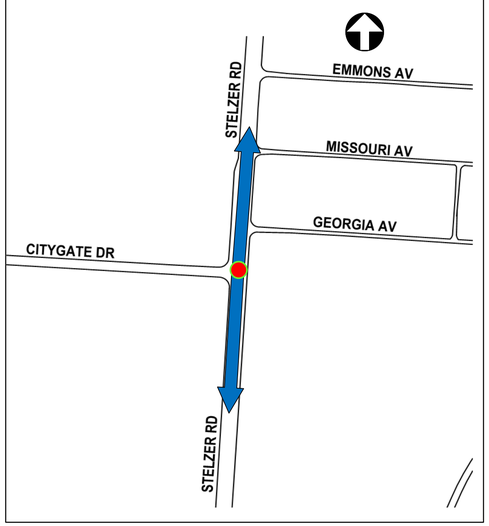
3 Cable Entries
24 Fusion Splices
11 Buffer Tubes Passed Through Unspliced

CLAMSHELL, 288 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 3304

REFER TO SHEET 515 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 623 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100012
PID NUMBER: 99733

INT# 3304: CITYGATE DR. AT STELZER RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

764
915

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TRAFFIC SIGNAL CABINET ASSEMBLY

ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 3121: MCCUTHCEON RD. AT STELZER RD.
SEE SHEET 767

PORT 6: EXISTING COMMUNICATION NODE# 670009.0: I-670 AT STELZER RD.
SEE SHEET 914

ETHERNET SWITCH – LAYER 2

Ports 1 2 3 4 5 LH T R 6 LH T R 7 8

TRAFFIC SIGNAL CONTROLLER
Proposed
10/100 Mbs

CCTV FIELD BOX
VIDEO/PTZ IP DATA
CCTV/HEATER POWER
10/100 Mbs
ANALOG VIDEO

COMPOSITE CCTV CABLE

PROPOSED CCTV

24 STRAND DROP

24 STRAND DROP

144 STRAND FOC

TO:
INT# 3299: GOVERNORS CLUB BLVD. / MIDDLEMORE DR. AT STELZER RD.
SEE SHEET 766

BLUE TUBE (NORTH)

ORANGE TUBE (SOUTH)

BLUE TUBE (SPARE)

ORANGE TUBE (WEST)

PATCH PANEL ENCLOSURES: (2) - 24 TERMINATION

BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE
RED TUBE
BLACK TUBE
YELLOW TUBE
VIOLET TUBE
ROSE TUBE
AQUA TUBE

BLUE TUBE
ORANGE TUBE

BLUE TUBE
ORANGE TUBE

144 STRAND FOC

TO:
INT# 3266: AGLER RD. AT CITYGATE DR.
SEE SHEET 762

5 Cable Entries
228 Fusion Splices
2 Coiled Buffer Tubes

CLAMSHELL, 288 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE

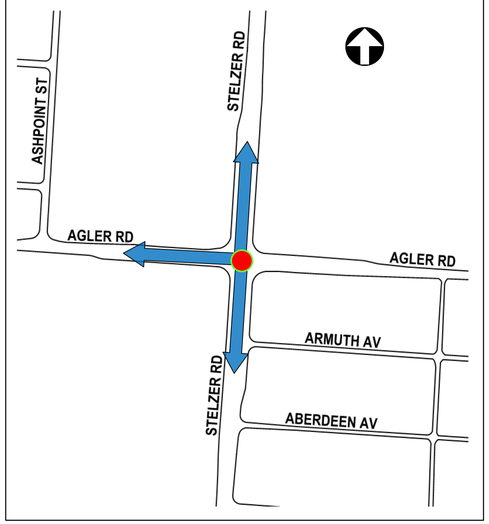
144 STRAND FOC

TO:
INT# 3304: CITYGATE DR. AT STELZER RD.
SEE SHEET 764

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 3298
REFER TO SHEET 517 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 623 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100012
PID NUMBER: 99733

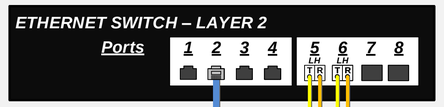
INT# 3298: AGLER RD. AT STELZER RD.
COMMUNICATIONS DIAGRAM

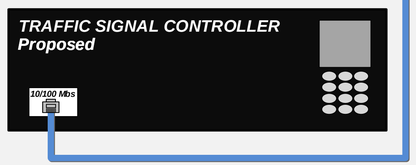
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

765
915

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TRAFFIC SIGNAL CABINET ASSEMBLY

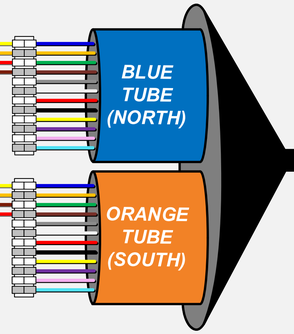




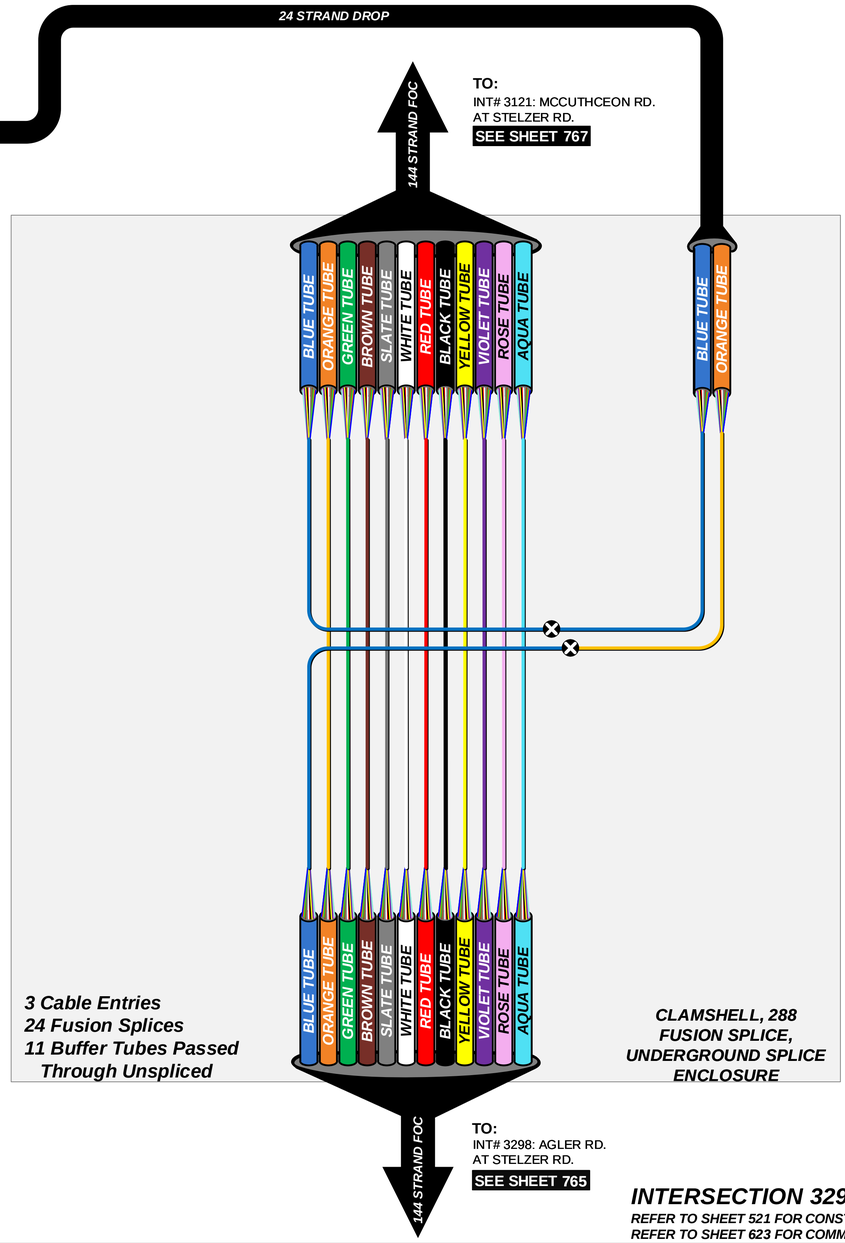
ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 3305: EASTON SQUARE PL. AT STELZER RD.
SEE SHEET 768

PORT 6: INT# 3266: AGLER RD. AT CITYGATE DR.
SEE SHEET 762



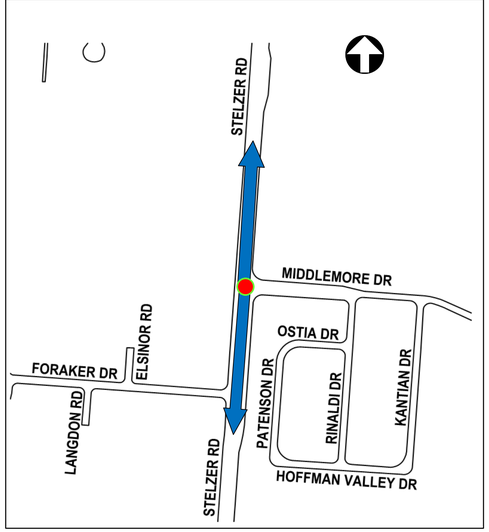
PATCH PANEL ENCLOSURE – 24 TERMINATION



LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- LH/ZX (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 3299

REFER TO SHEET 521 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 623 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100012
PID NUMBER: 99733

INT# 3299: GOVERNORS CLUB BLVD. / MIDDLEMORE DR. AT STELZER RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

766
915

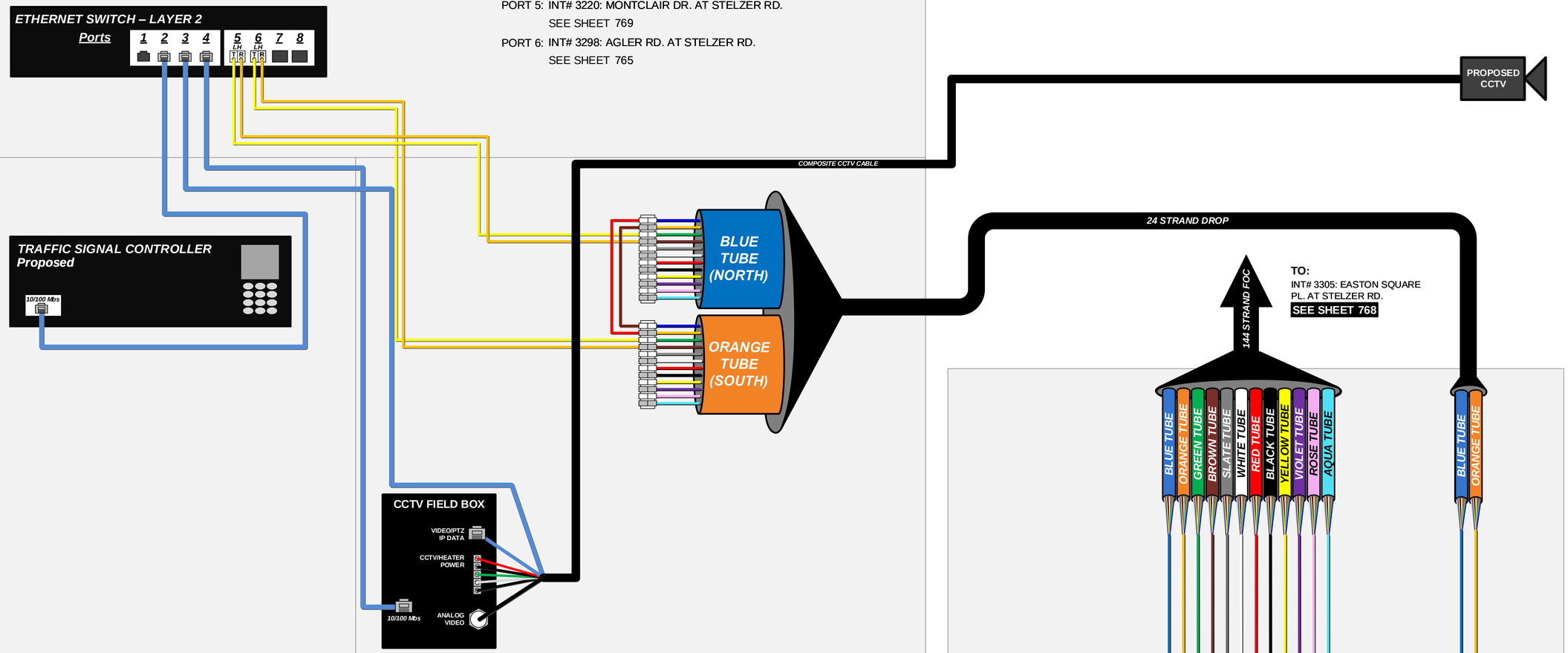
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TRAFFIC SIGNAL CABINET ASSEMBLY

ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 3220: MONTCLAIR DR. AT STELZER RD.
SEE SHEET 769

PORT 6: INT# 3298: AGLER RD. AT STELZER RD.
SEE SHEET 765

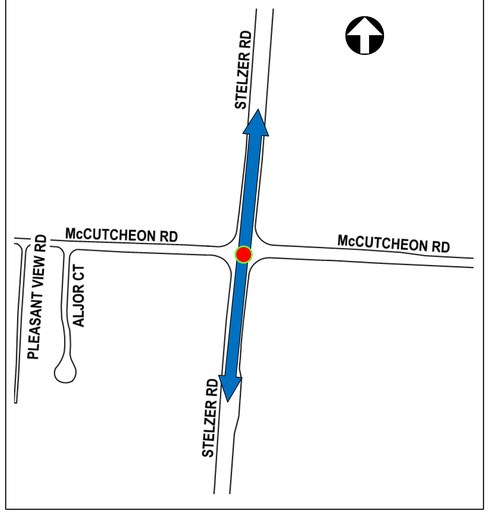


PATCH PANEL ENCLOSURE – 24 TERMINATION

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 3121

REFER TO SHEET 522 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 623 FOR COMM OVERVIEW DETAILS

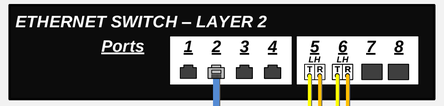
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PID NUMBER: 99733

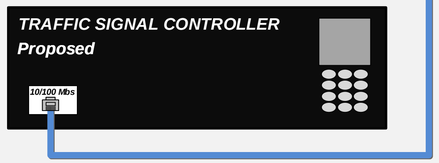
INT# 3121: MCCUTHCEON RD. AT STELZER RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

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TRAFFIC SIGNAL CABINET ASSEMBLY

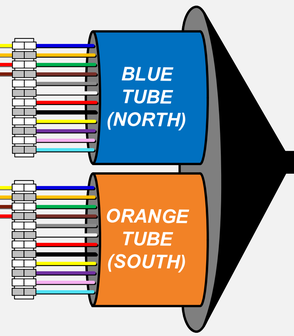




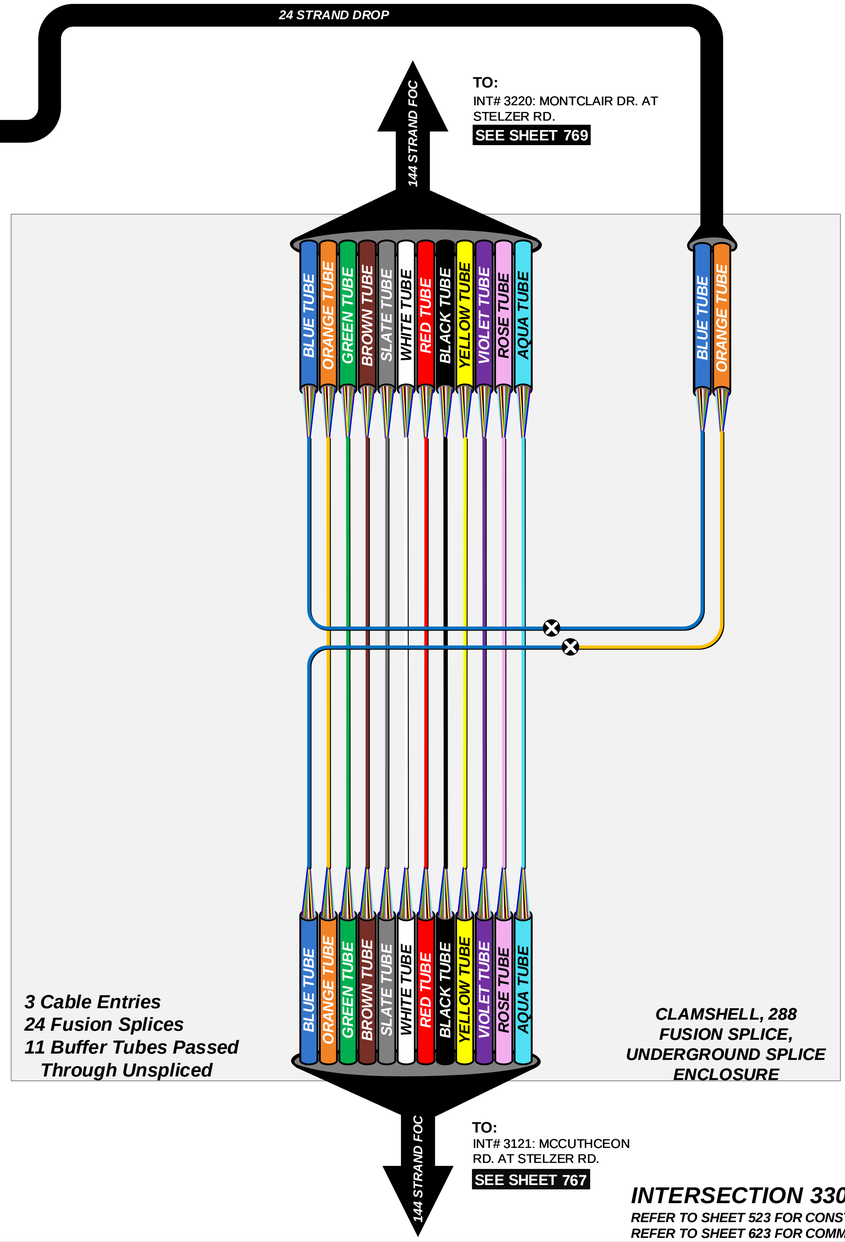
ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 3221: MORSE CROSSING AT STELZER RD.
SEE SHEET 770

PORT 6: INT# 3299: GOVERNORS CLUB BLVD. / MIDDLEMORE DR. AT STELZER RD.
SEE SHEET 766



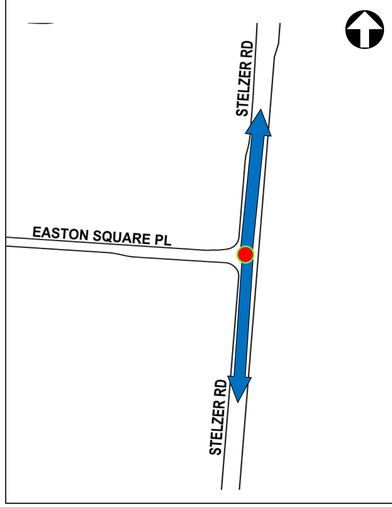
PATCH PANEL ENCLOSURE – 24 TERMINATION



LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 3305

REFER TO SHEET 523 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 623 FOR COMM OVERVIEW DETAILS

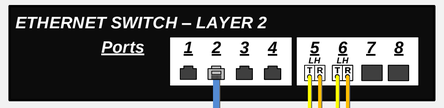
CIP: 540007 - 100012
PID NUMBER: 99733

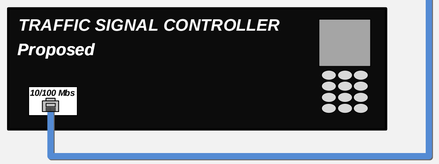
INT# 3305: EASTON SQUARE PL. AT STELZER RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

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TRAFFIC SIGNAL CABINET ASSEMBLY

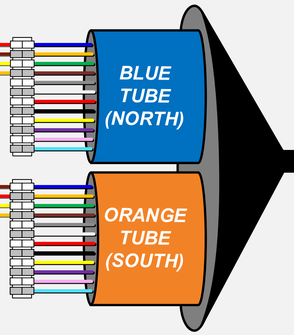




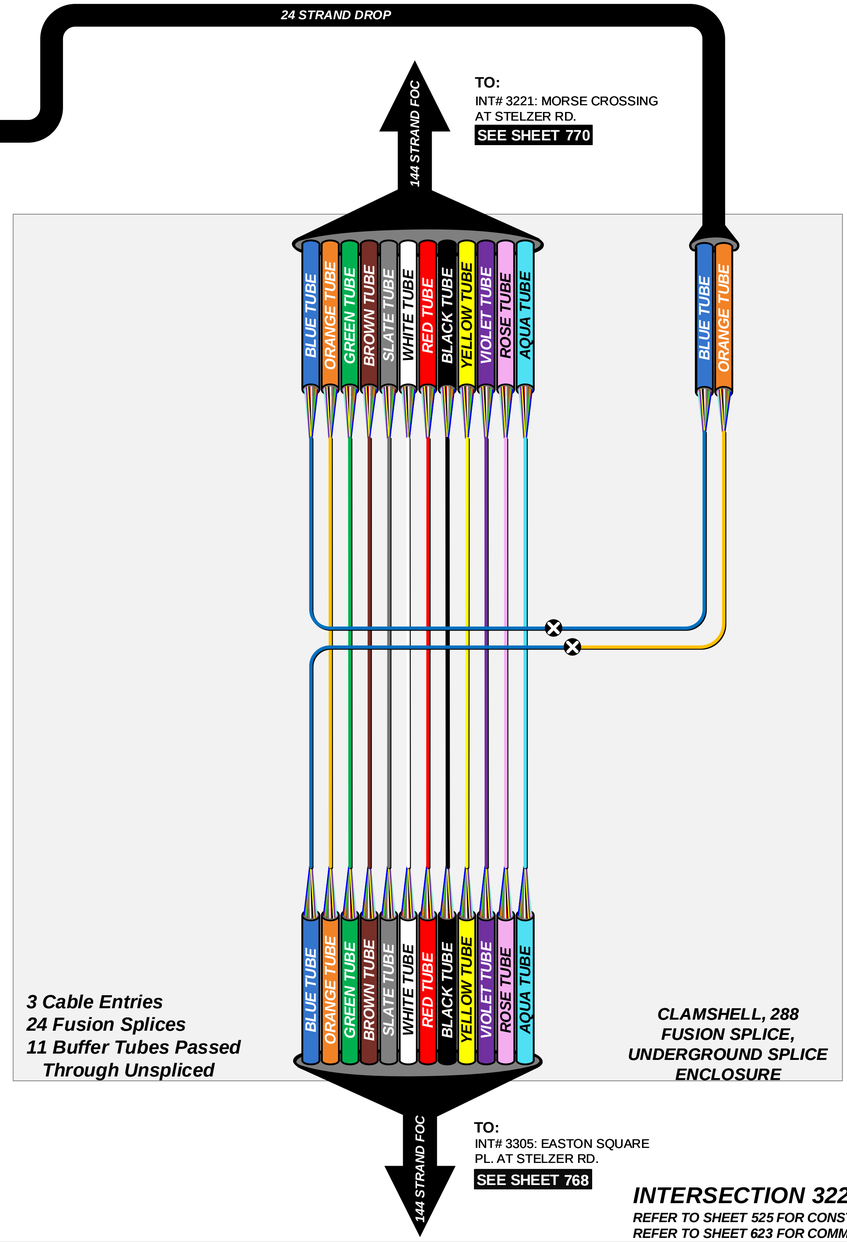
ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 3276: EASTON OVAL / EASTON COMMONS AT STELZER RD.
SEE SHEET 771

PORT 6: INT# 3121: MCCUTHCEON RD. AT STELZER RD.
SEE SHEET 767



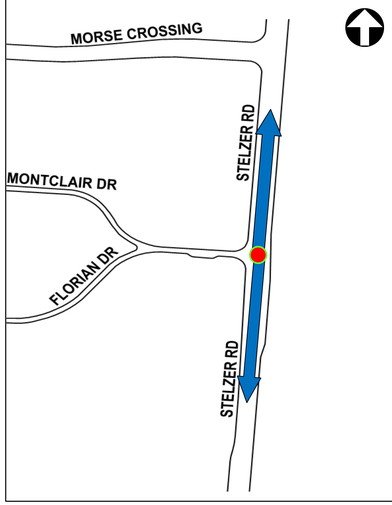
PATCH PANEL ENCLOSURE – 24 TERMINATION



LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- LH/ZX (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 3220

REFER TO SHEET 525 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 623 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100012
PID NUMBER: 99733

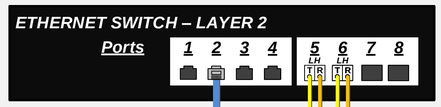
INT# 3220: MONTCLAIR DR. AT STELZER RD.
COMMUNICATIONS DIAGRAM

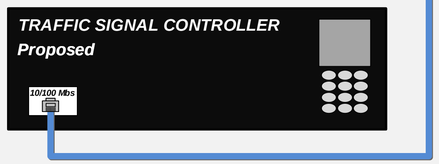
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

769
915

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TRAFFIC SIGNAL CABINET ASSEMBLY

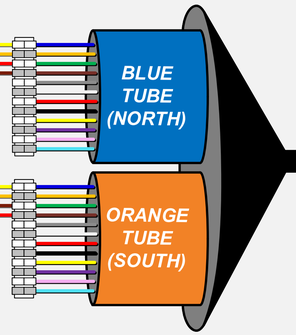




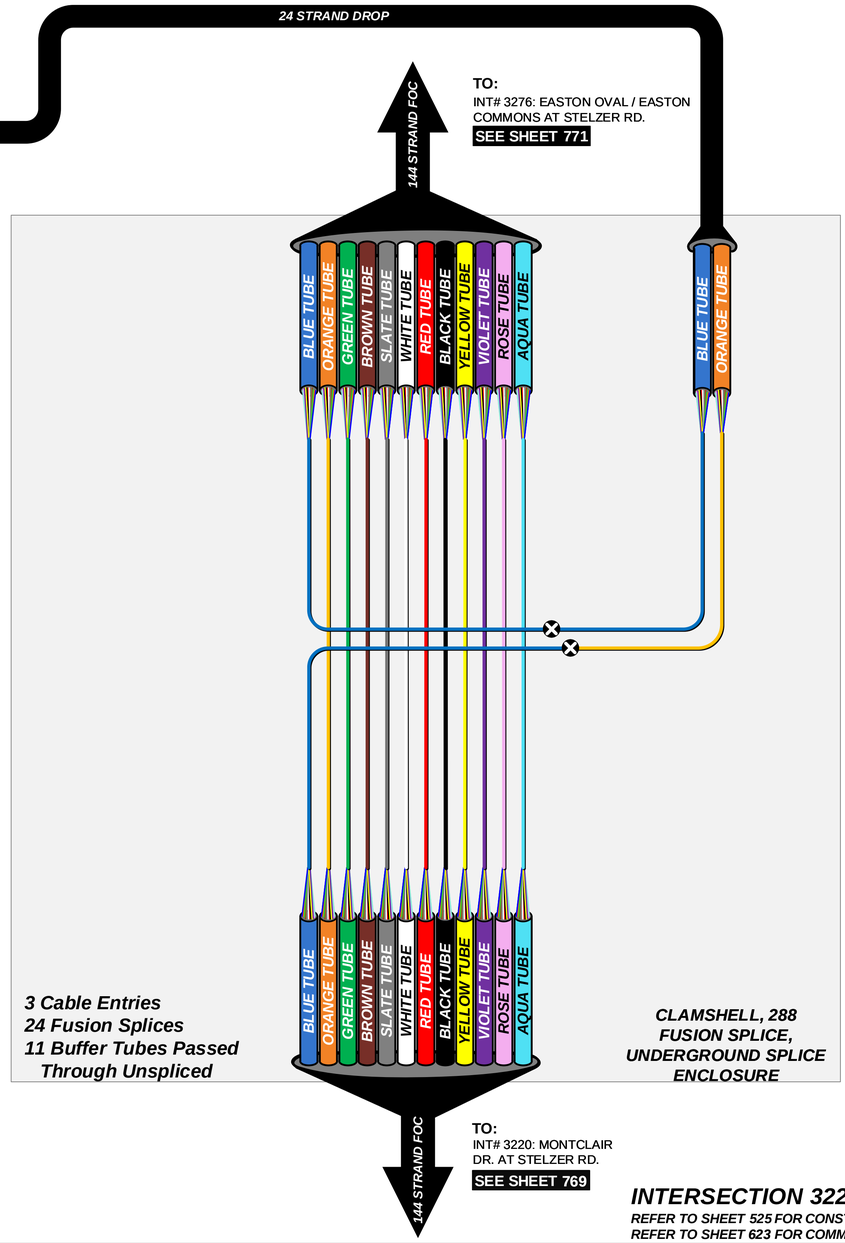
ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 3229: EASTON WAY AT STELZER RD.
SEE SHEET 778

PORT 6: INT# 3305: EASTON SQUARE PL. AT STELZER RD.
SEE SHEET 768



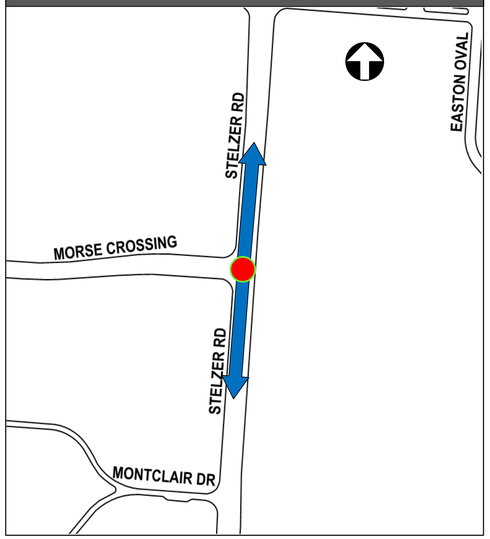
PATCH PANEL ENCLOSURE – 24 TERMINATION



LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- LH/ZX — GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 3221

REFER TO SHEET 525 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 623 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100012
PID NUMBER: 99733

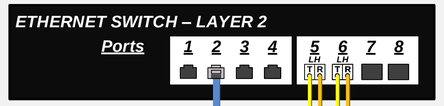
INT# 3221: MORSE CROSSING AT STELZER RD.
COMMUNICATIONS DIAGRAM

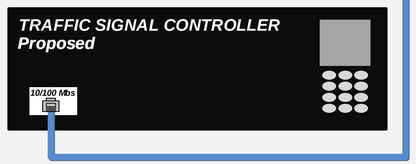
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

770
915

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TRAFFIC SIGNAL CABINET ASSEMBLY

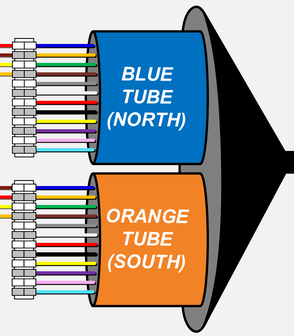




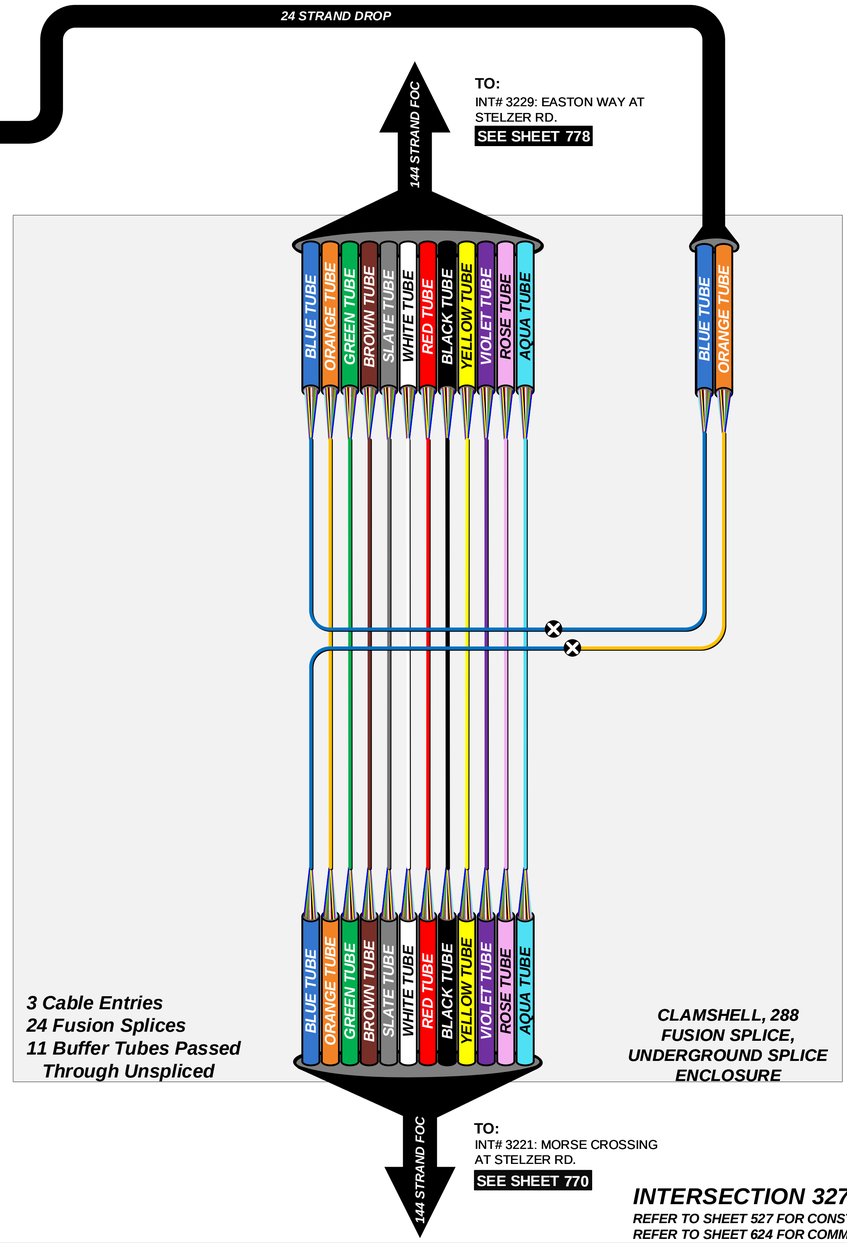
ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 3230: EASTON WAY AT I-270 NB
SEE SHEET 779

PORT 6: INT# 3220: MONTCLAIR DR. AT STELZER RD.
SEE SHEET 769



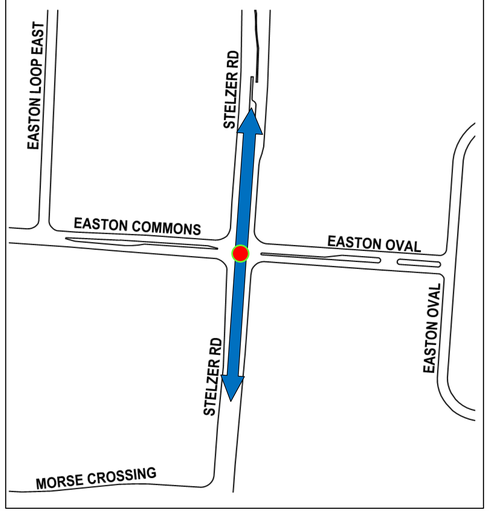
PATCH PANEL ENCLOSURE – 24 TERMINATION



LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 3276

REFER TO SHEET 527 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 624 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100012
PID NUMBER: 99733

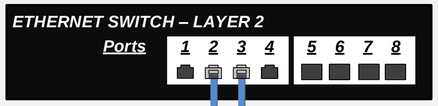
INT# 3276: EASTON OVAL / EASTON COMMONS AT STELZER RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

771
915

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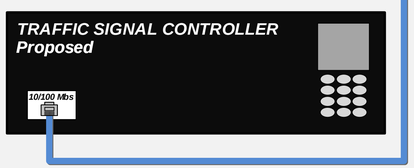
TRAFFIC SIGNAL CABINET ASSEMBLY



ETHERNET SWITCH PORT DESTINATION

PORT 3: INT# 3241: EASTON WAY AT MORSE CROSSING
SEE SHEET 774

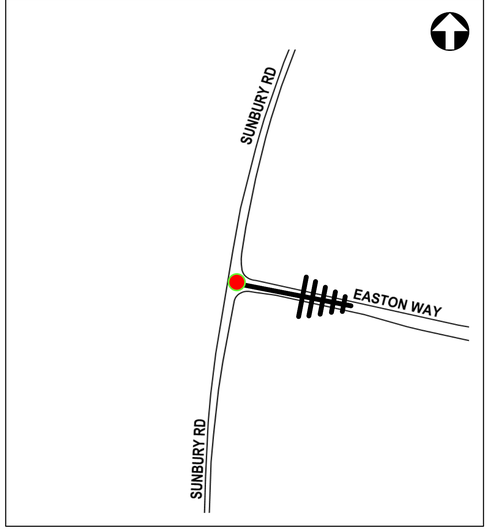
WIRELESS LINK TO
INT# 3241: EASTON WAY
AT MORSE CROSSING
SEE SHEET 774



LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- *LH/ZX* (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 3272

REFER TO SHEET 534 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 624 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100012
PID NUMBER: 99733

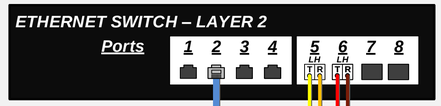
INT# 3272: EASTON WAY AT SUNBURY RD.
COMMUNICATIONS DIAGRAM

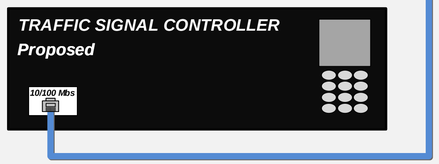
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

772
915

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TRAFFIC SIGNAL CABINET ASSEMBLY

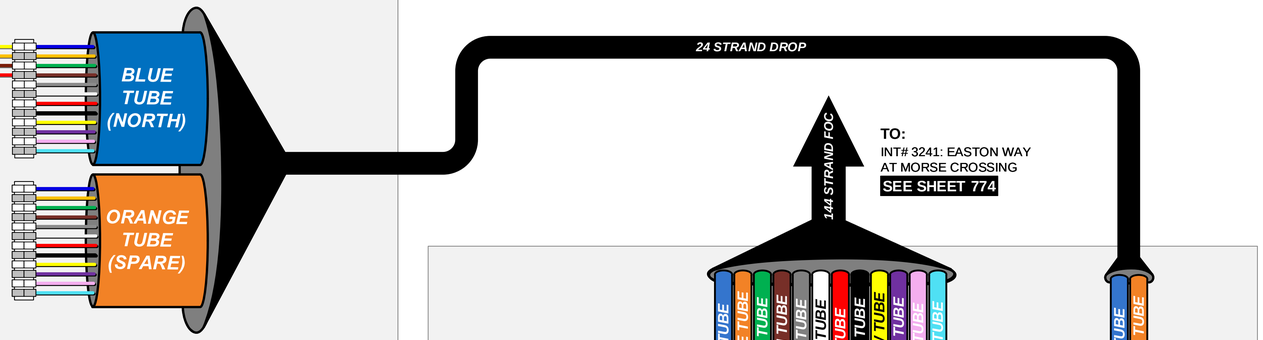




ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 3250: EASTON SQUARE PL. AT EASTON WAY
SEE SHEET 776

PORT 6: INT# 3241: EASTON WAY AT MORSE CROSSING
SEE SHEET 774



PATCH PANEL ENCLOSURE – 24 TERMINATION

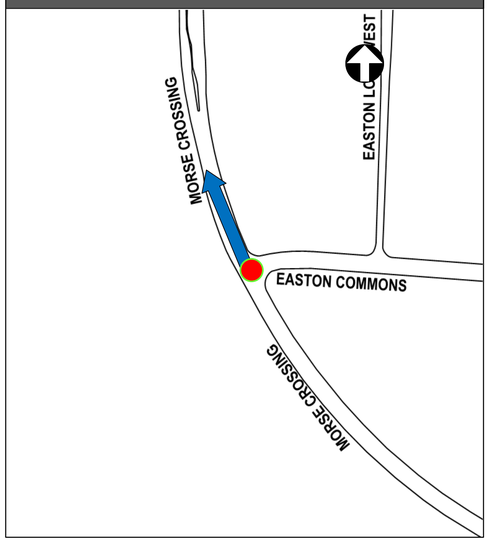
2 Cable Entries
12 Fusion Splices
12 Coiled Buffer Tubes

CLAMSHELL, 288 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- *LH/ZX* (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 3275

REFER TO SHEET 542 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 624 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100012
PID NUMBER: 99733

INT# 3275: EASTON COMMONS AT MORSE CROSSING
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

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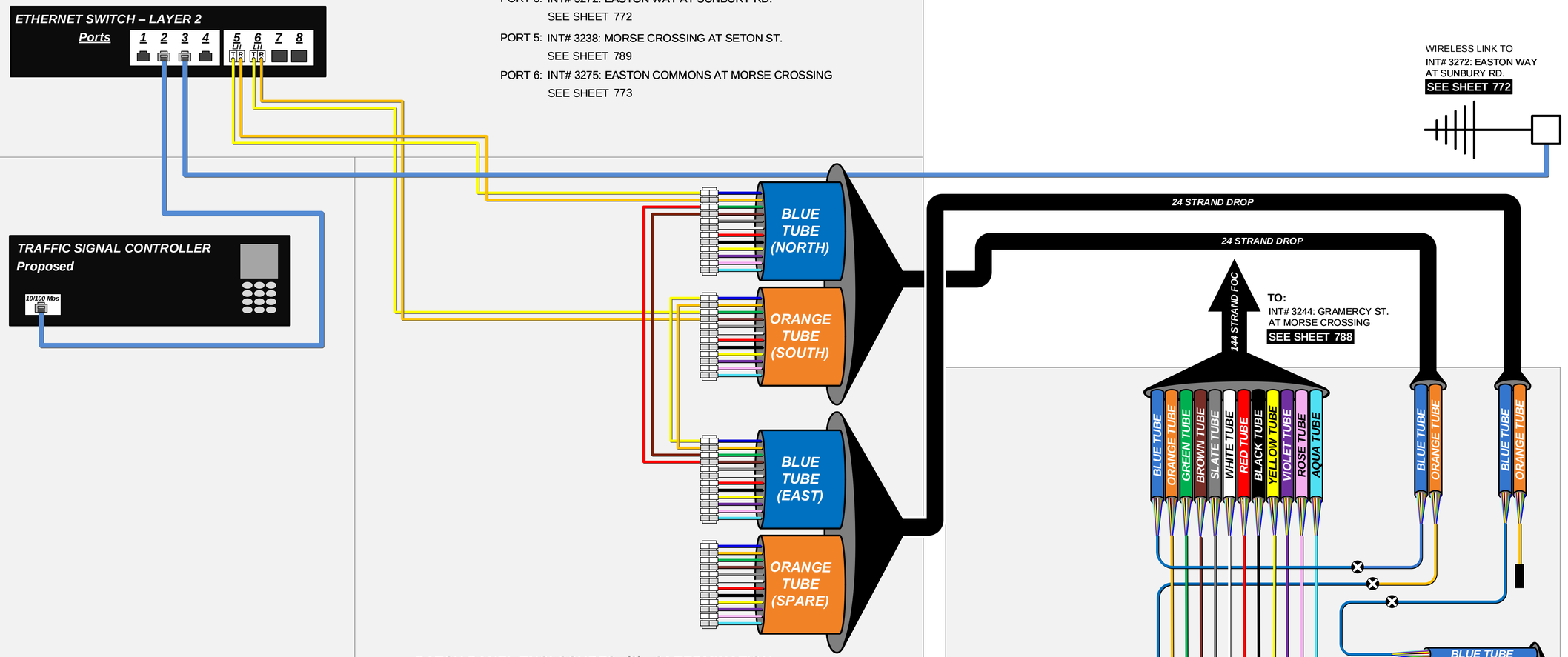
TRAFFIC SIGNAL CABINET ASSEMBLY

ETHERNET SWITCH PORT DESTINATION

PORT 3: INT# 3272: EASTON WAY AT SUNBURY RD.
SEE SHEET 772

PORT 5: INT# 3238: MORSE CROSSING AT SETON ST.
SEE SHEET 789

PORT 6: INT# 3275: EASTON COMMONS AT MORSE CROSSING
SEE SHEET 773

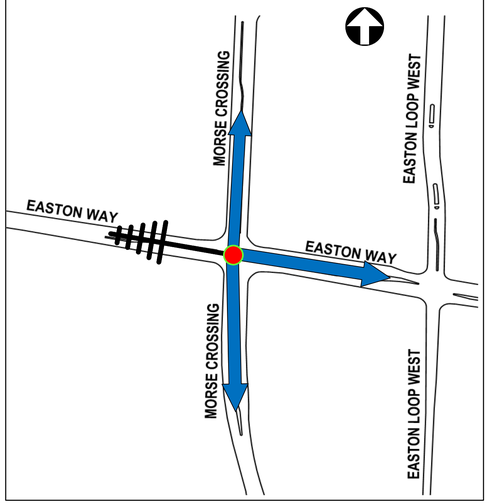


PATCH PANEL ENCLOSURES: (2) - 24 TERMINATION

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 3241

REFER TO SHEET 535 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 624 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100012
PID NUMBER: 99733

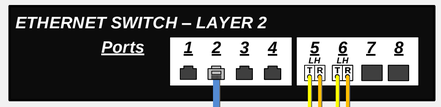
INT# 3241: EASTON WAY AT MORSE CROSSING
COMMUNICATIONS DIAGRAM

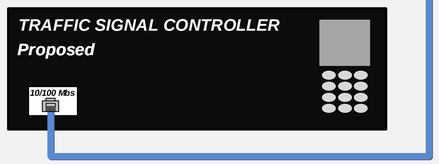
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

774
915

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TRAFFIC SIGNAL CABINET ASSEMBLY

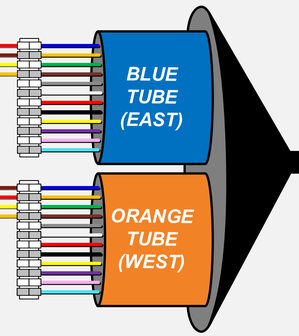


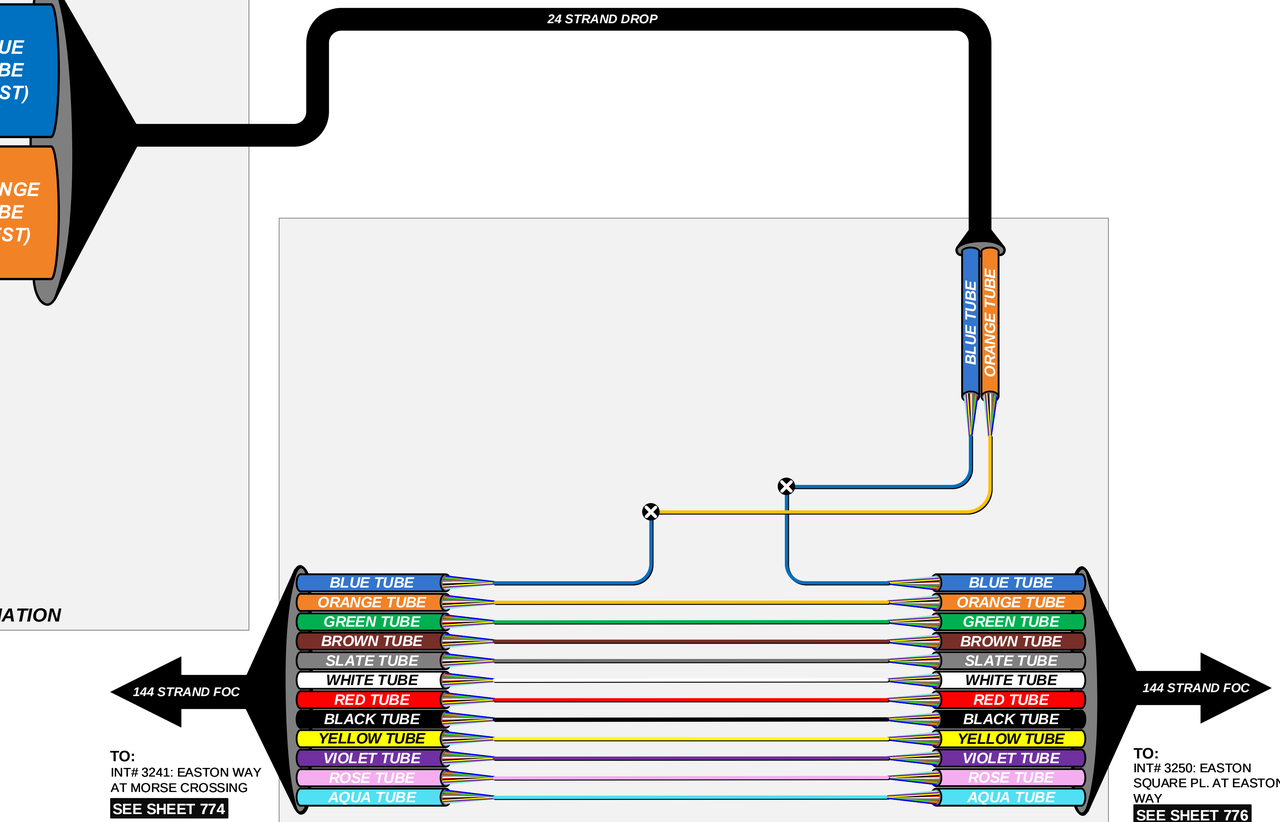


ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 3254: EASTON LOOP E. AT EASTON WAY
SEE SHEET 777

PORT 6: INT# 3244: GRAMERCY ST. AT MORSE CROSSING
SEE SHEET 788





TO:
INT# 3241: EASTON WAY
AT MORSE CROSSING
SEE SHEET 774

TO:
INT# 3250: EASTON
SQUARE PL. AT EASTON
WAY
SEE SHEET 776

PATCH PANEL ENCLOSURE – 24 TERMINATION

3 Cable Entries
24 Fusion Splices
11 Buffer Tubes Passed Through Unspliced

CLAMSHELL, 288 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- LH/ZX (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 3251

REFER TO SHEET 536 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 624 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100012
PID NUMBER: 99733

INT# 3251: EASTON LOOP W. AT EASTON WAY
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

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TRAFFIC SIGNAL CABINET ASSEMBLY

ETHERNET SWITCH – LAYER 2

Ports 1 2 3 4 5 6 7 8 (5 LH T R, 6 LH T R)

TRAFFIC SIGNAL CONTROLLER
Proposed

10/100 Mbs

ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 3229: EASTON WAY AT STELZER RD.
SEE SHEET 778

PORT 6: INT# 3275: EASTON COMMONS AT MORSE CROSSING
SEE SHEET 773

BLUE TUBE (EAST)

ORANGE TUBE (WEST)

24 STRAND DROP

PATCH PANEL ENCLOSURE – 24 TERMINATION

BLUE TUBE
ORANGE TUBE

BLUE TUBE	BLUE TUBE
ORANGE TUBE	ORANGE TUBE
GREEN TUBE	GREEN TUBE
BROWN TUBE	BROWN TUBE
SLATE TUBE	SLATE TUBE
WHITE TUBE	WHITE TUBE
RED TUBE	RED TUBE
BLACK TUBE	BLACK TUBE
YELLOW TUBE	YELLOW TUBE
VIOLET TUBE	VIOLET TUBE
ROSE TUBE	ROSE TUBE
AQUA TUBE	AQUA TUBE

144 STRAND FOC

TO:
INT# 3251: EASTON LOOP W. AT EASTON WAY
SEE SHEET 775

144 STRAND FOC

TO:
INT# 3254: EASTON LOOP E. AT EASTON WAY
SEE SHEET 777

3 Cable Entries
24 Fusion Splices
11 Buffer Tubes Passed Through Unspliced

CLAMSHELL, 288 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- LH/ZX (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 3250

REFER TO SHEET 536 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 624 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100012
PID NUMBER: 99733

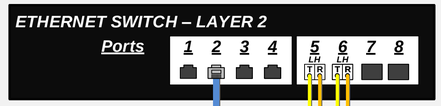
INT# 3250: EASTON SQUARE PL. AT EASTON WAY
COMMUNICATIONS DIAGRAM

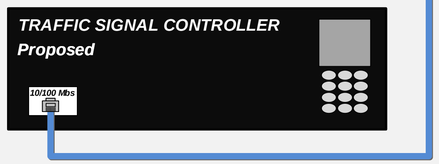
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

776
915

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TRAFFIC SIGNAL CABINET ASSEMBLY

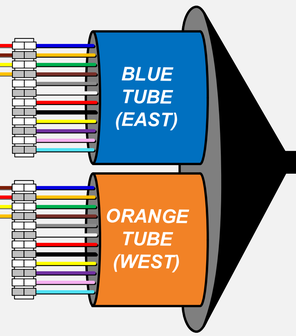


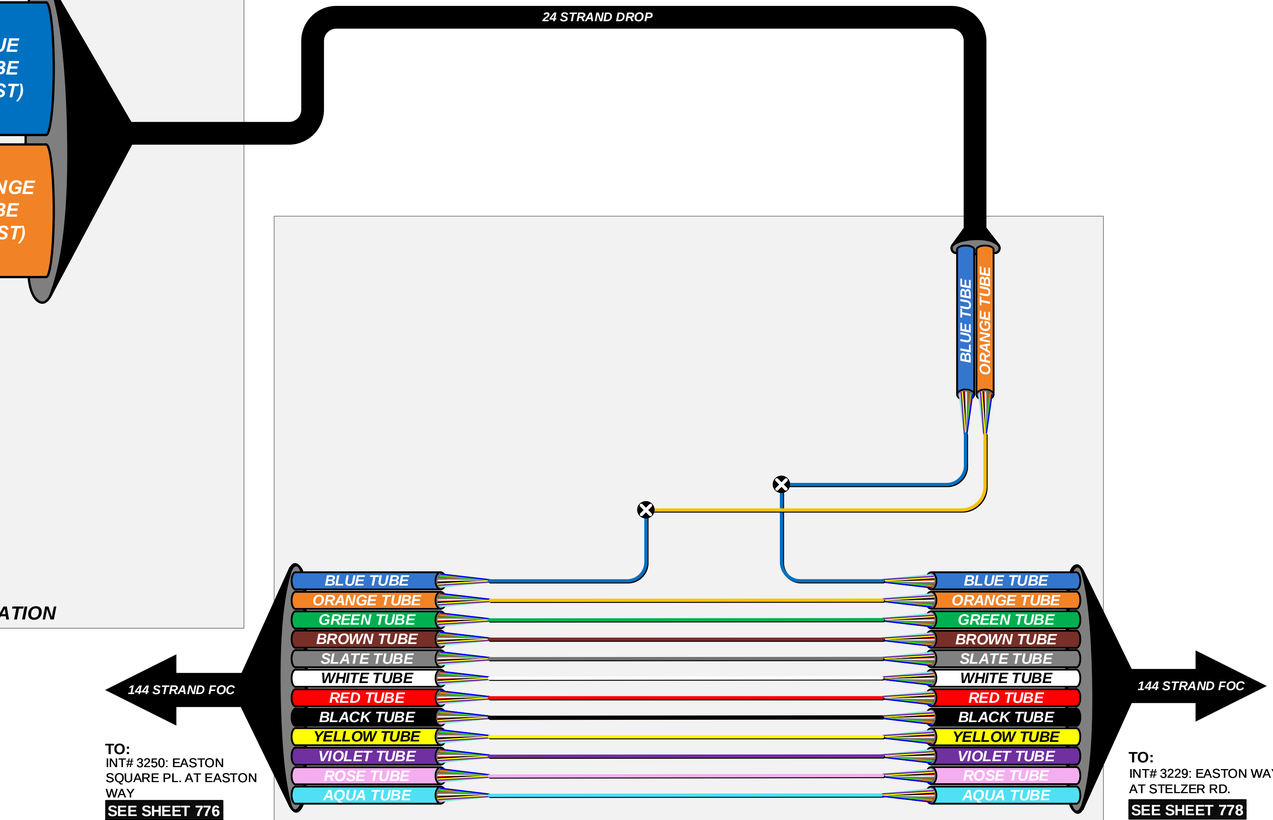


ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 3259: COLLIERY AVE. AT STELZER RD.
SEE SHEET 780

PORT 6: INT# 3251: EASTON LOOP W. AT EASTON WAY
SEE SHEET 775





TO:
INT# 3250: EASTON SQUARE PL. AT EASTON WAY
SEE SHEET 776

TO:
INT# 3229: EASTON WAY AT STELZER RD.
SEE SHEET 778

3 Cable Entries
24 Fusion Splices
11 Buffer Tubes Passed Through Unspliced

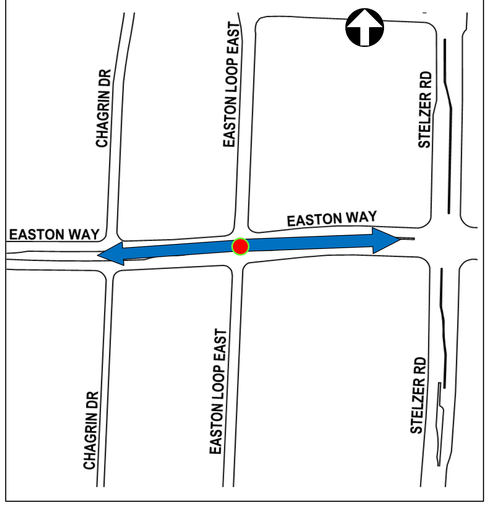
CLAMSHELL, 288 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE

PATCH PANEL ENCLOSURE – 24 TERMINATION

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- LH/ZX (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 3254

REFER TO SHEET 537 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 624 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100012
PID NUMBER: 99733

INT# 3254: EASTON LOOP E. AT EASTON WAY
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

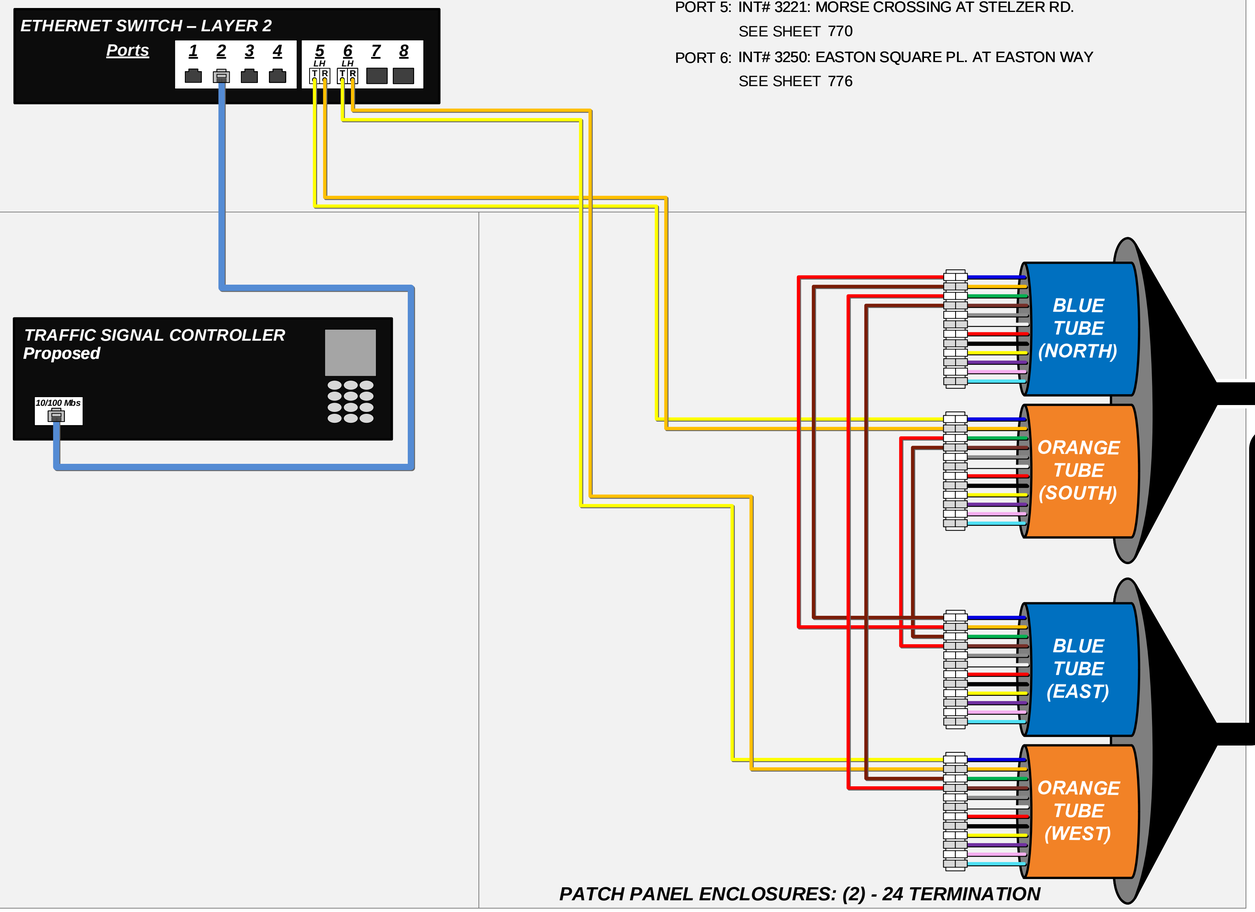
J:\Jobs\63721 CTSS Phase E\TECHPROD\Communications\Intersection Splicing Details\771-787.vsd - 3254 layout ~ last saved by: skoganti 9/13/2018 5:10:44 PM ~ printed: 9/13/2018 5:10:44 PM

TRAFFIC SIGNAL CABINET ASSEMBLY

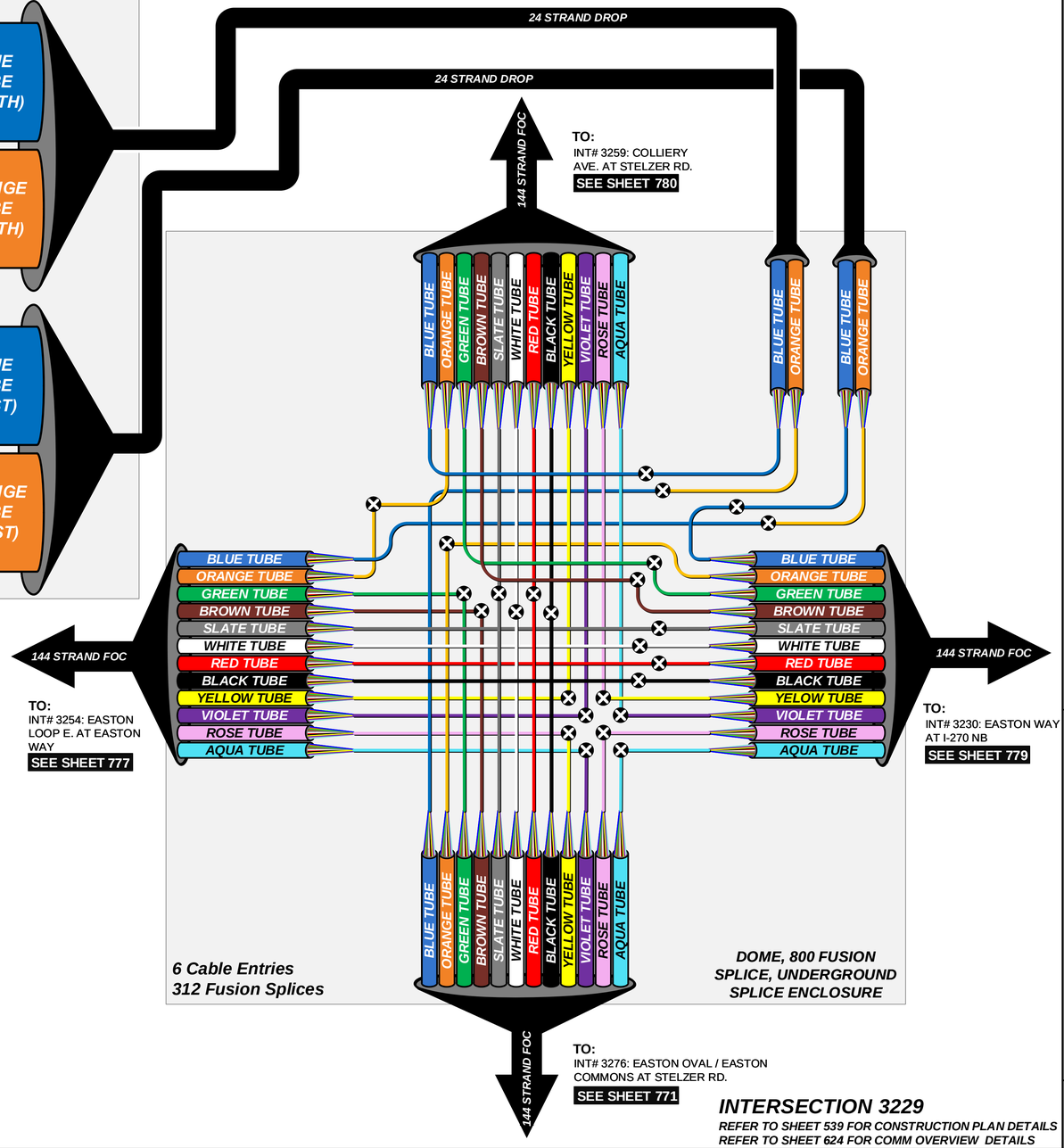
ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 3221: MORSE CROSSING AT STELZER RD.
SEE SHEET 770

PORT 6: INT# 3250: EASTON SQUARE PL. AT EASTON WAY
SEE SHEET 776



PATCH PANEL ENCLOSURES: (2) - 24 TERMINATION



LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- *LH/ZX* GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 3229

REFER TO SHEET 539 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 624 FOR COMM OVERVIEW DETAILS

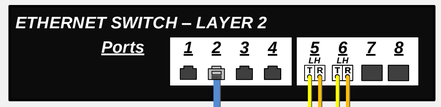
CIP: 540007 - 100012
PID NUMBER: 99733

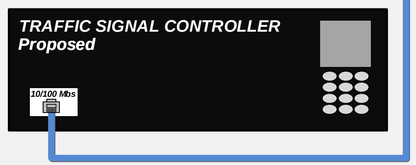
INT# 3229: EASTON WAY AT STELZER RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

J:\Jobs\63721 CTSS Phase E\TECHPROD\Communications\Intersection Splicing Details\771-787.vsd - 3229 layout ~ last saved by: skoganti 9/13/2018 5:10:44 PM ~ printed: 9/13/2018 5:10:44 PM

TRAFFIC SIGNAL CABINET ASSEMBLY

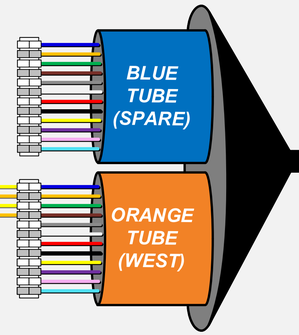




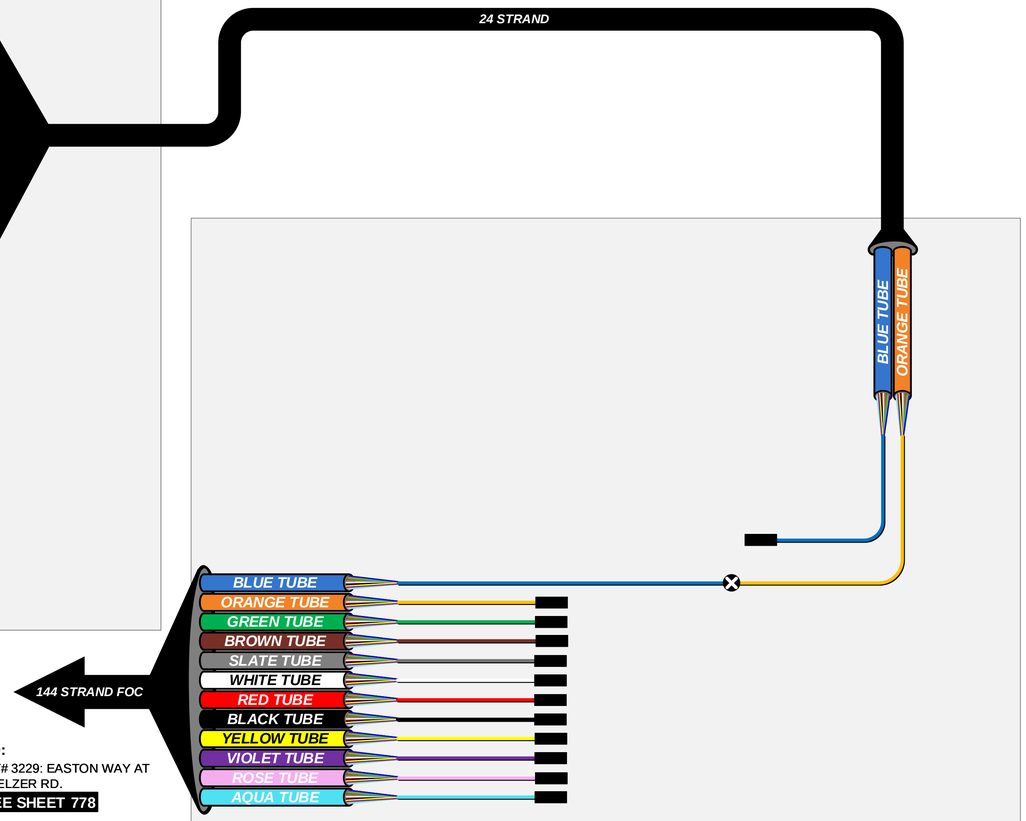
ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 3280: ALSTON ST. AT STELZER RD.
SEE SHEET 781

PORT 6: INT# 3276: EASTON OVAL / EASTON COMMONS AT STELZER RD.
SEE SHEET 771



PATCH PANEL ENCLOSURE – 24 TERMINATION



TO:
INT# 3229: EASTON WAY AT STELZER RD.
SEE SHEET 778

2 Cable Entries
12 Fusion Splices
12 Coiled Buffer Tubes

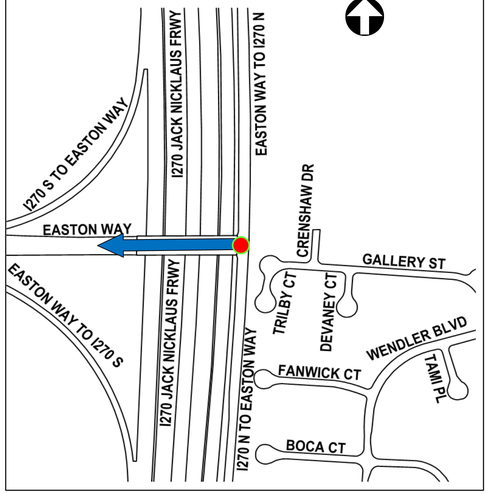
SPLICE ENCLOSURE AT STA. 66+55, 64' RT

DOME, 144 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- LH/ZX (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 3230

REFER TO SHEET 540 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 624 FOR COMM OVERVIEW DETAILS

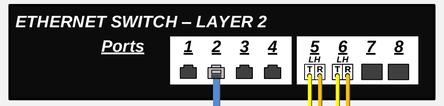
CIP: 540007 - 100012
PID NUMBER: 99733

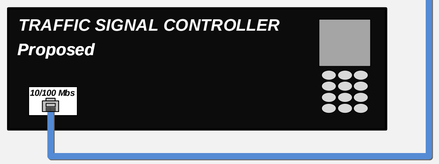
INT# 3230: EASTON WAY AT I-270 NB
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

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TRAFFIC SIGNAL CABINET ASSEMBLY

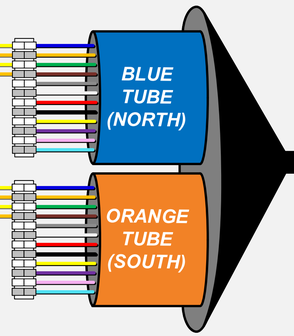




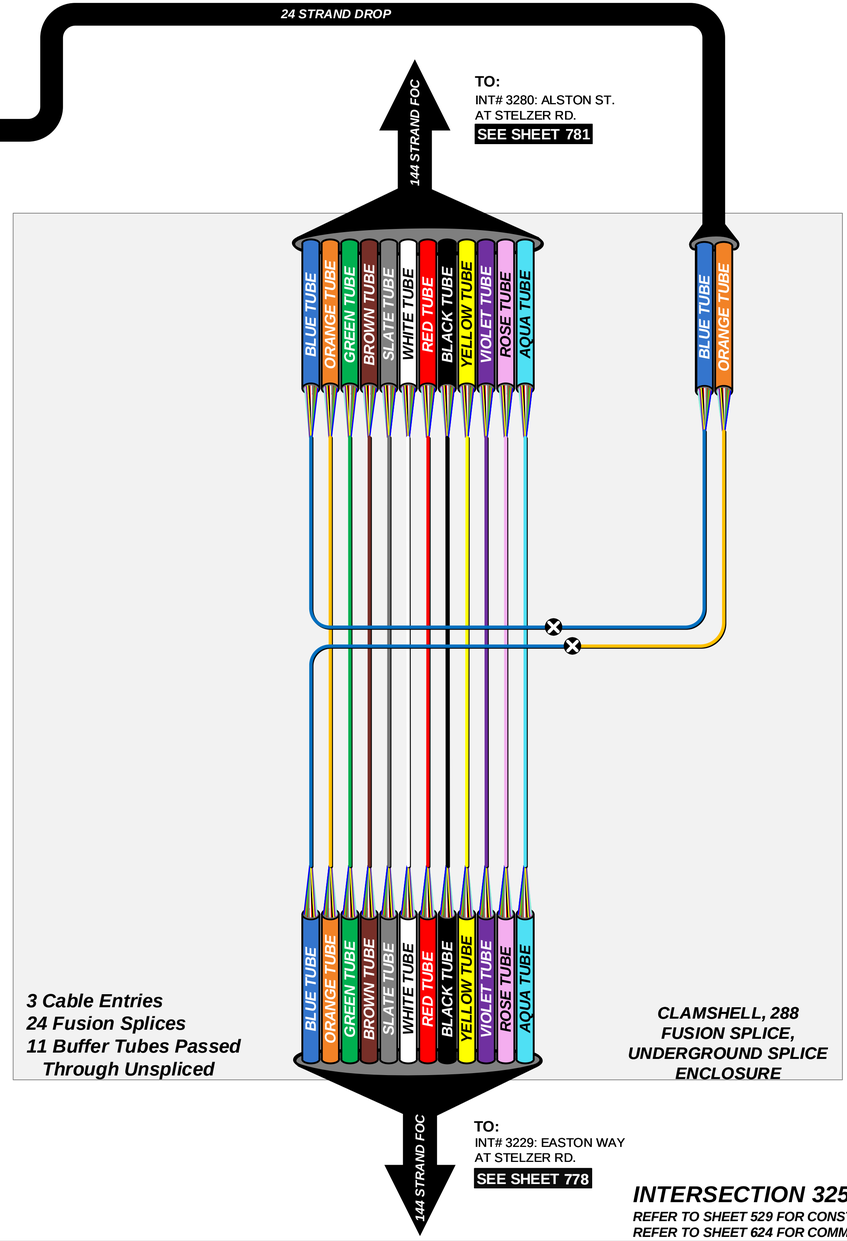
ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 3271: STELZER RD. AT WORTH AVE.
SEE SHEET 782

PORT 6: INT# 3254: EASTON LOOP E. AT EASTON WAY
SEE SHEET 777



PATCH PANEL ENCLOSURE – 24 TERMINATION



LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- LH/ZX — GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 3259

REFER TO SHEET 529 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 624 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100012
PID NUMBER: 99733

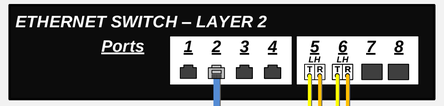
INT# 3259: COLLIERY AVE. AT STELZER RD.
COMMUNICATIONS DIAGRAM

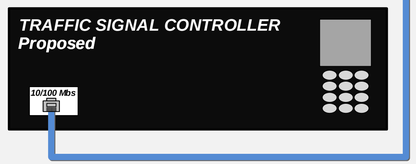
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

780
915

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TRAFFIC SIGNAL CABINET ASSEMBLY

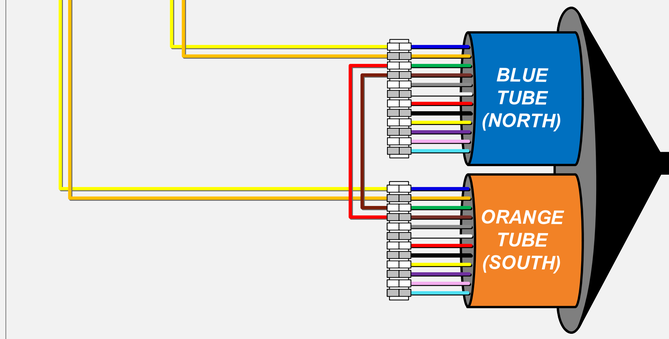




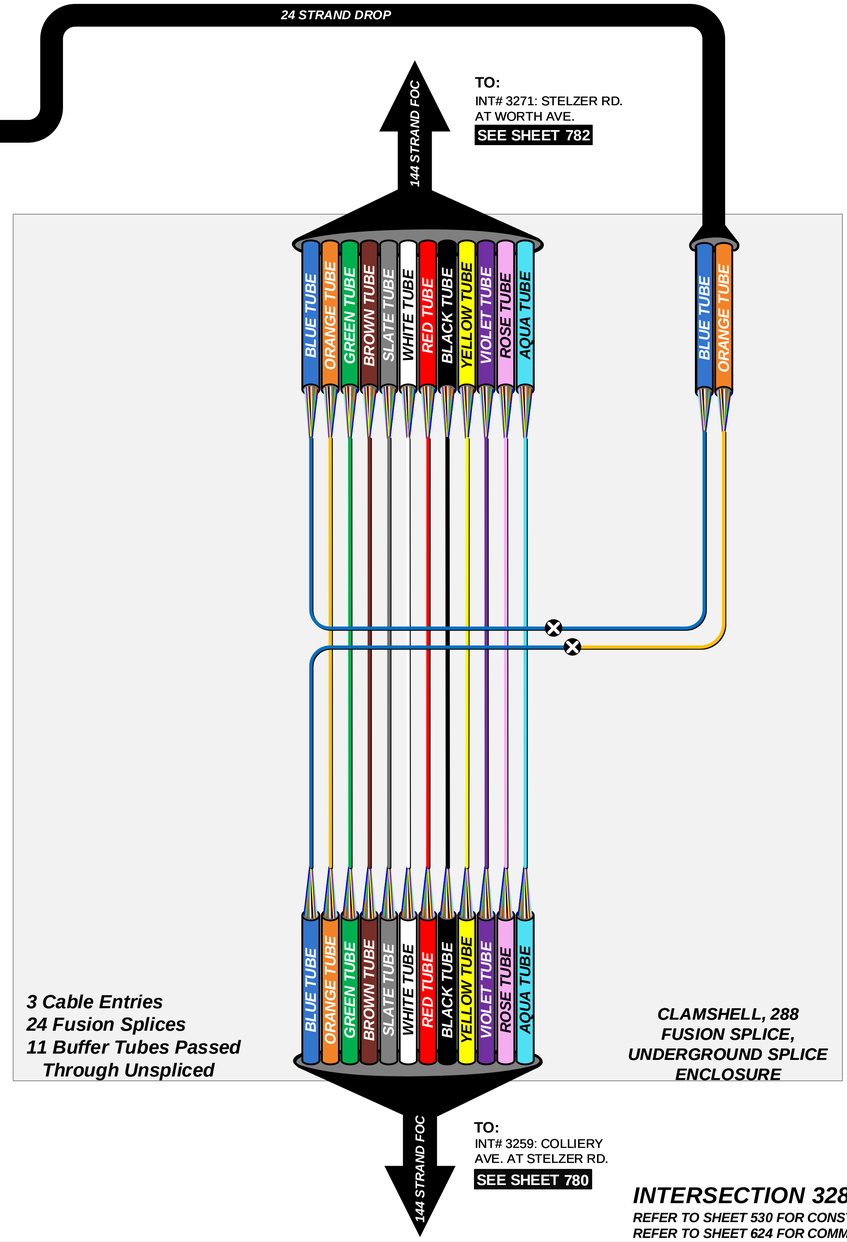
ETHERNET SWITCH PORT DESTINATION

PORT 5: EXISTING COMMUNICATION NODE# 270032.2: I-270 AT MORSE RD.
SEE SHEET 902

PORT 6: INT# 3230: EASTON WAY AT I-270 NB
SEE SHEET 779



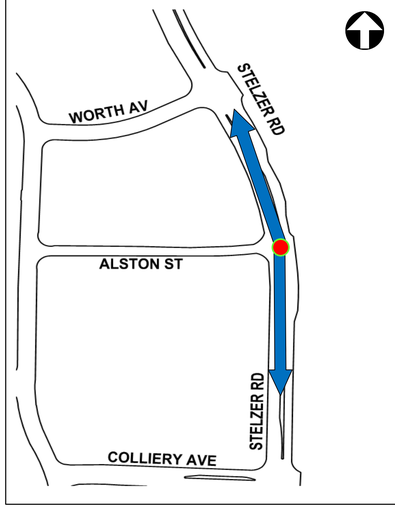
PATCH PANEL ENCLOSURE – 24 TERMINATION



LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 3280

REFER TO SHEET 530 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 624 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100012
PID NUMBER: 99733

INT# 3280: ALSTON ST. AT STELZER RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

781
915

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TRAFFIC SIGNAL CABINET ASSEMBLY

ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 3259: COLLIERY AVE. AT STELZER RD.
SEE SHEET 780

PORT 6: INT# 3269: EASTON LOOP E. AT WORTH AVE.
SEE SHEET 785

ETHERNET SWITCH – LAYER 2

Ports 1 2 3 4 5 LH T R 6 LH T R 7 8

TRAFFIC SIGNAL CONTROLLER
Proposed

10/100 Mbs

BLUE TUBE (NORTH)

ORANGE TUBE (SOUTH)

BLUE TUBE (SPARE)

ORANGE TUBE (WEST)

PATCH PANEL ENCLOSURES: (2) - 24 TERMINATION

24 STRAND DROP

24 STRAND DROP

144 STRAND FOC

TO:
INT# 3228: MORSE RD.
AT STELZER RD.
SEE SHEET 783

BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE
RED TUBE
BLACK TUBE
YELLOW TUBE
VIOLET TUBE
ROSE TUBE
AQUA TUBE

BLUE TUBE
ORANGE TUBE

BLUE TUBE
ORANGE TUBE

24 STRAND FOC

BLUE TUBE
ORANGE TUBE

TO:
INT# 3269: EASTON LOOP E.
AT WORTH AVE.
SEE SHEET 785

5 Cable Entries
36 Fusion Splices
2 Coiled Buffer Tubes
11 Buffer Tubes Passed Through Unspliced

CLAMSHELL, 288 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE

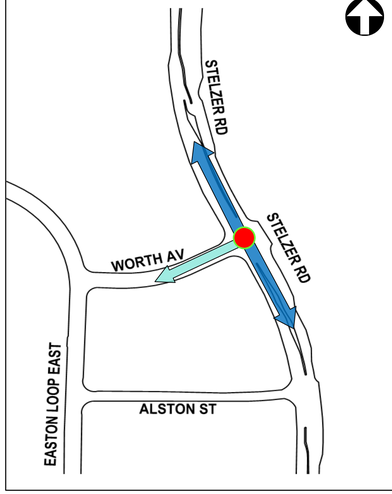
144 STRAND FOC

TO:
INT# 3280: ALSTON ST.
AT STELZER RD.
SEE SHEET 781

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 3271
REFER TO SHEET 531 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 624 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100012
PID NUMBER: 99733

INT# 3271: STELZER RD. AT WORTH AVE.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

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TRAFFIC SIGNAL CABINET ASSEMBLY

EXISTING ETHERNET SWITCH – LAYER 2

Ports 1 2 3 4 5 6 7 8 (5, 6: LH T/R)

TRAFFIC SIGNAL CONTROLLER

Ex. Econolite ASC/3-2100

Ethernet Module — *10/100 Mbs*

ETHERNET SWITCH PORT DESTINATION

PORT 5: EXISTING COMMUNICATION NODE# 270032.2: I-270 AT MORSE RD.
SEE SHEET 902

PORT 6: EXISTING CONNECTION TO INT# 3237: MORSE CROSSING AT MORSE RD.

EXISTING PATCH PANEL ENCLOSURE - 24 TERMINATION

PATCH PANEL ENCLOSURE - 24 TERMINATION

EXISTING 24 STRAND DROP

24 STRAND DROP

BLUE TUBE (EAST)

ORANGE TUBE (WEST)

BLUE TUBE (SPARE)

ORANGE TUBE (SOUTH)

BLUE TUBE / ***ORANGE TUBE*** (×2)

BLUE TUBE	ORANGE TUBE	GREEN TUBE	BROWN TUBE	SLATE TUBE	WHITE TUBE	RED TUBE	BLACK TUBE	YELLOW TUBE	VIOLET TUBE	ROSE TUBE	AQUA TUBE

EXISTING 144 STRAND FOC

TO:
INT# 3231: EASTON LOOP & EASTON SQUARE AT MORSE RD.

EXISTING 144 STRAND FOC

TO:
TO INT# 3161: I-270 SB RAMPS AT MORSE RD.

144 STRAND FOC

TO:
INT# 3271: STELZER RD. AT WORTH AVE.
SEE SHEET 782

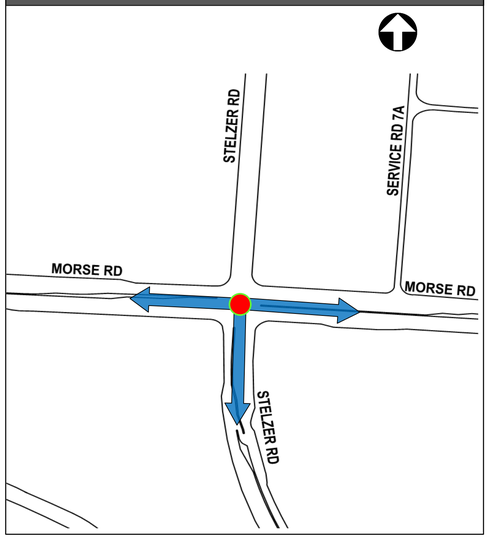
5 Cable Entries
204 Proposed Fusion Splices
228 Total Fusion Splices
2 Coiled Buffer Tubes

EXISTING SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- *LH/ZX* (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 3228

REFER TO SHEET 532 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 624 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100012
PID NUMBER: 99733

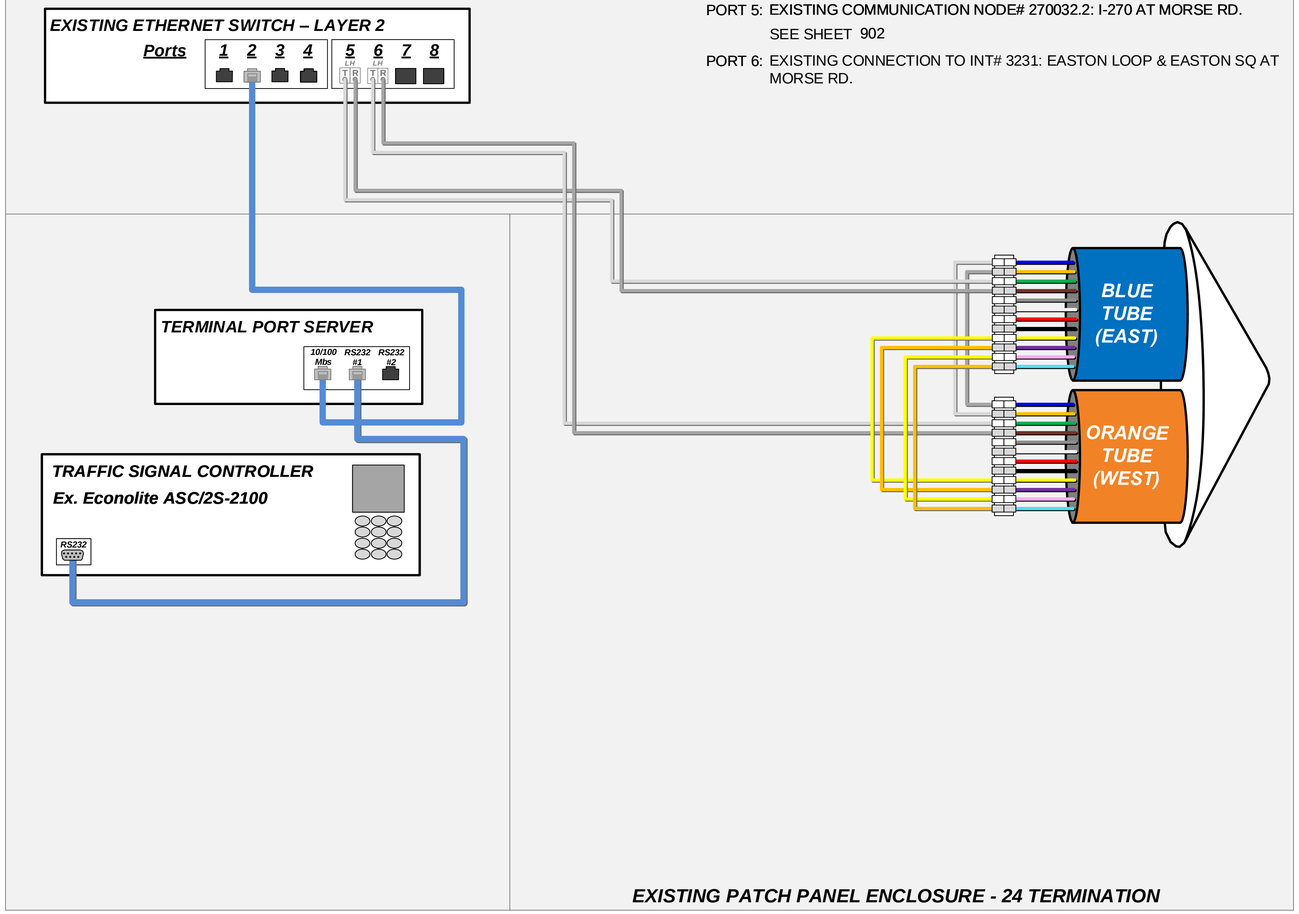
INT# 3228: MORSE RD. AT STELZER RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

783
915

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TRAFFIC SIGNAL CABINET ASSEMBLY



ETHERNET SWITCH PORT DESTINATION

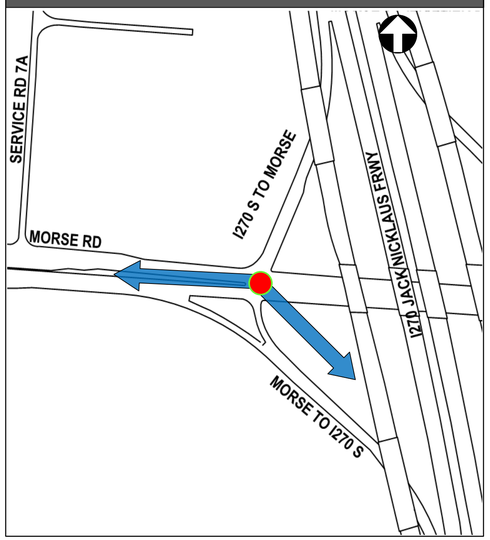
PORT 5: EXISTING COMMUNICATION NODE# 270032.2: I-270 AT MORSE RD.
SEE SHEET 902

PORT 6: EXISTING CONNECTION TO INT# 3231: EASTON LOOP & EASTON SQ AT MORSE RD.

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- LH/ZX (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 3161

REFER TO SHEET 624 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100012
PID NUMBER: 99733

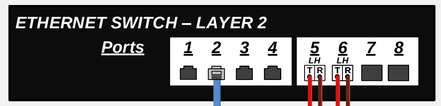
INT# 3161: MORSE RD. AT IR-270 SB RAMPS
COMMUNICATIONS DIAGRAM

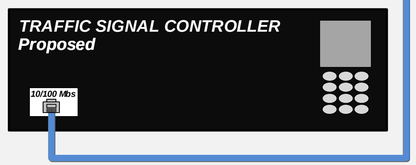
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

784
915

J:\Jobs\63721 CTSS Phase E\TECHPROD\Communications\Intersection Splicing Details\771-787.vsd - 3161 layout ~ last saved by: skoganti 9/13/2018 5:10:44 PM ~ printed: 9/13/2018 5:10:44 PM

TRAFFIC SIGNAL CABINET ASSEMBLY

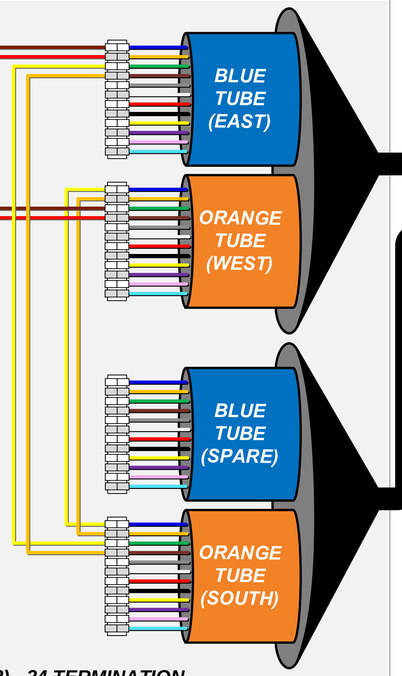




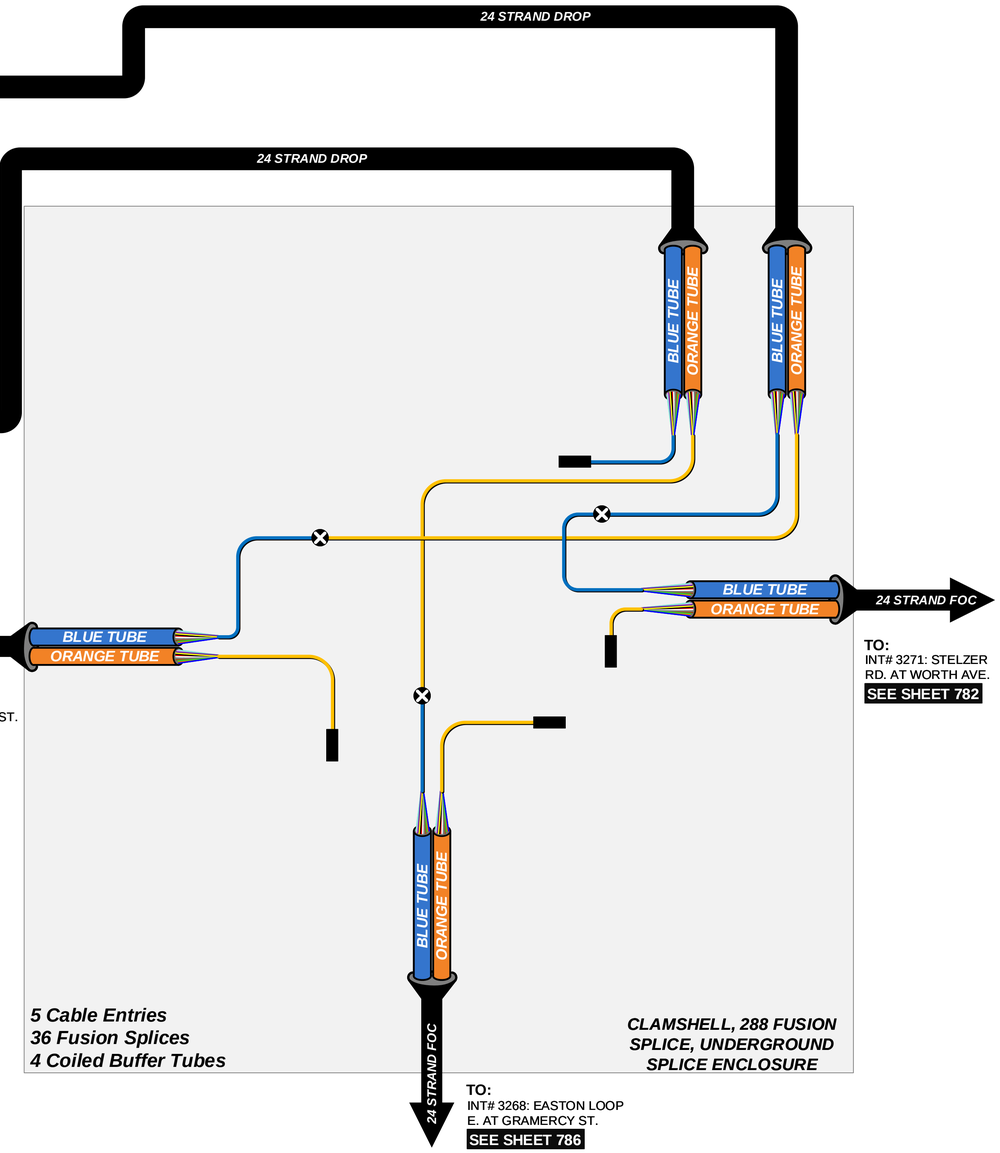
ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 3271: STELZER RD. AT WORTH AVE.
SEE SHEET 782

PORT 6: INT# 3238: MORSE CROSSING AT SETON ST.
SEE SHEET 789



PATCH PANEL ENCLOSURES: (2) - 24 TERMINATION



TO:
INT# 3238: MORSE CROSSING AT SETON ST.
SEE SHEET 789

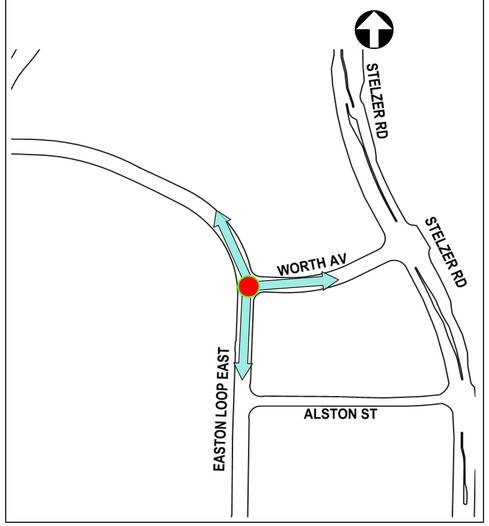
TO:
INT# 3271: STELZER RD. AT WORTH AVE.
SEE SHEET 782

TO:
INT# 3268: EASTON LOOP E. AT GRAMERCY ST.
SEE SHEET 786

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- *LH/ZX* (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 3269

REFER TO SHEET 549 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 624 FOR COMM OVERVIEW DETAILS

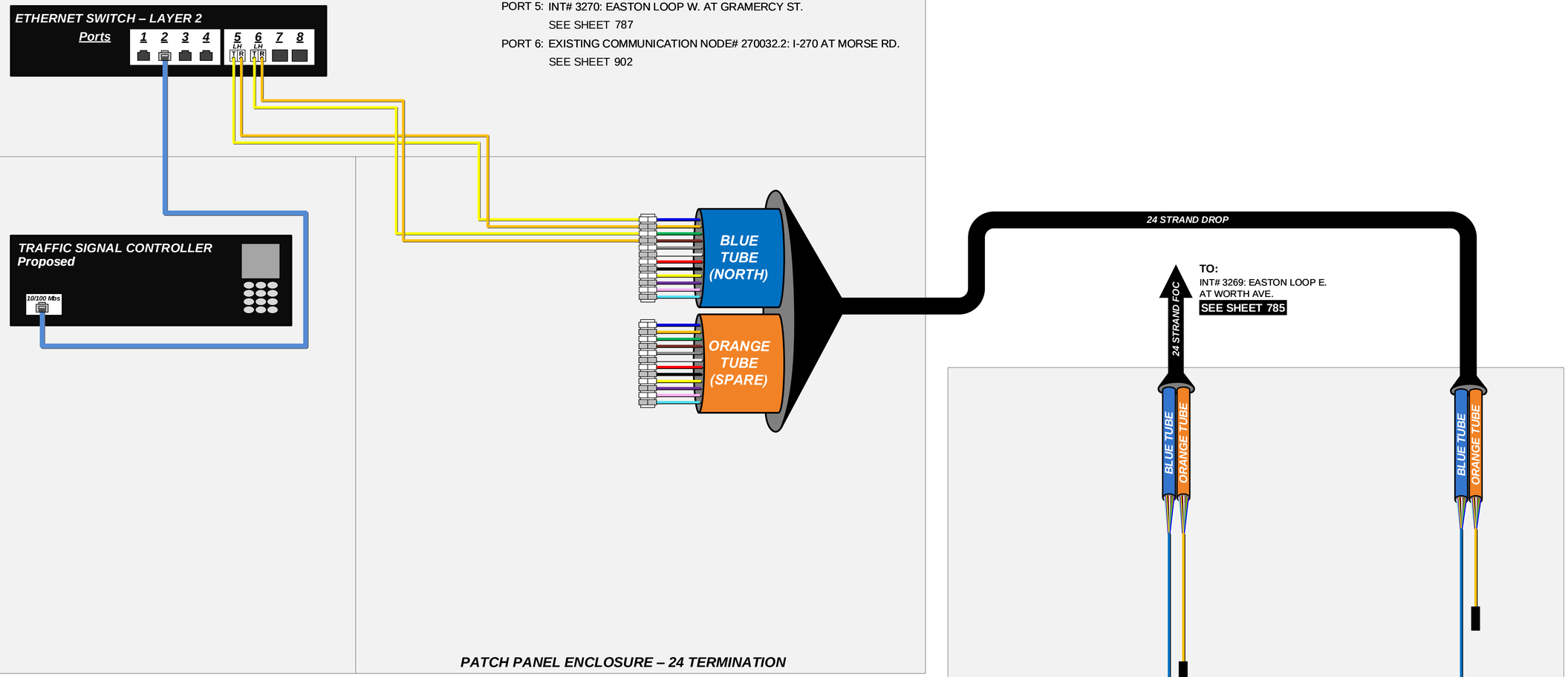
CIP: 540007 - 100012
PID NUMBER: 99733

INT# 3269: EASTON LOOP E. AT WORTH AVE.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

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TRAFFIC SIGNAL CABINET ASSEMBLY



ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 3270: EASTON LOOP W. AT GRAMERCY ST.
SEE SHEET 787

PORT 6: EXISTING COMMUNICATION NODE# 270032.2: I-270 AT MORSE RD.
SEE SHEET 902

TO:
INT# 3269: EASTON LOOP E.
AT WORTH AVE.
SEE SHEET 785

PATCH PANEL ENCLOSURE – 24 TERMINATION

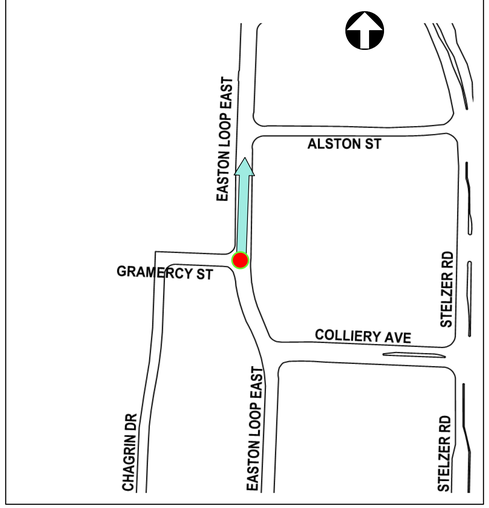
2 Cable Entries
12 Fusion Splices
2 Coiled Buffer Tubes

CLAMSHELL, 288 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- LH/ZX (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 3268
REFER TO SHEET 548 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 624 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100012
PID NUMBER: 99733

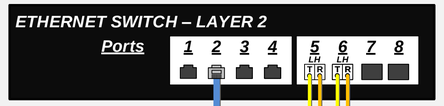
INT# 3268: EASTON LOOP E. AT GRAMERCY ST.
COMMUNICATIONS DIAGRAM

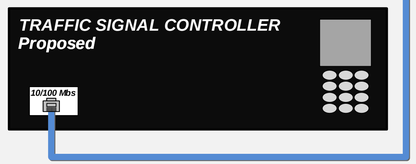
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

786
915

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TRAFFIC SIGNAL CABINET ASSEMBLY

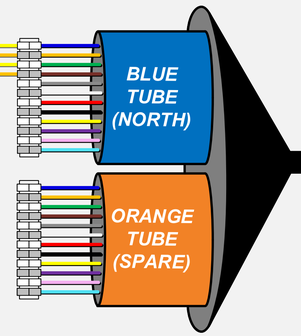




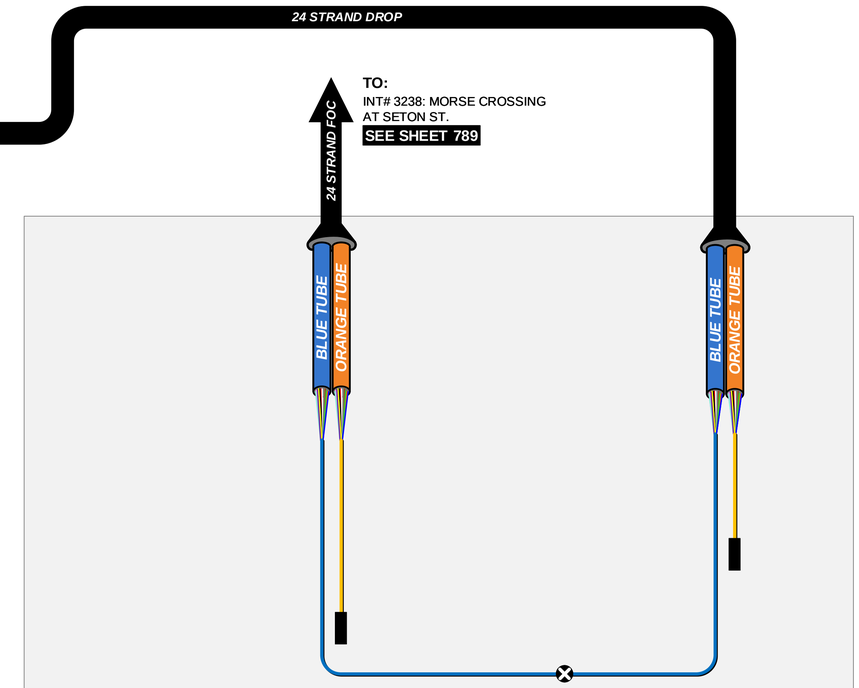
ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 3268: EASTON LOOP E. AT GRAMERCY ST.
SEE SHEET 786

PORT 6: INT# 3244: GRAMERCY ST. AT MORSE CROSSING
SEE SHEET 788



PATCH PANEL ENCLOSURE – 24 TERMINATION



TO:
INT# 3238: MORSE CROSSING
AT SETON ST.
SEE SHEET 789

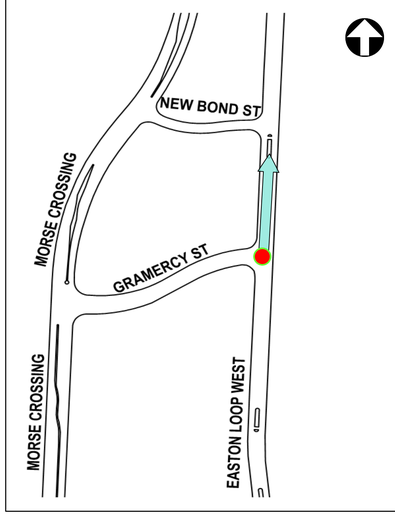
2 Cable Entries
12 Fusion Splices
2 Coiled Buffer Tubes

CLAMSHELL, 288 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- *LH/ZX* (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 3270

REFER TO SHEET 553 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 624 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100012
PID NUMBER: 99733

INT# 3270: EASTON LOOP W. AT GRAMERCY ST.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

787
915

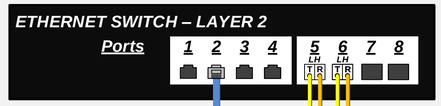
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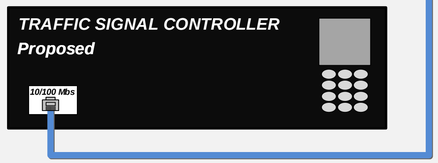
TRAFFIC SIGNAL CABINET ASSEMBLY

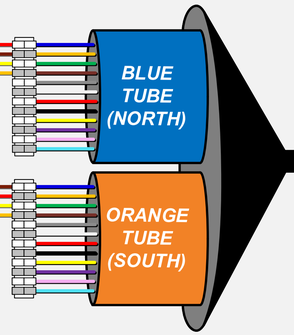
ETHERNET SWITCH PORT DESTINATION

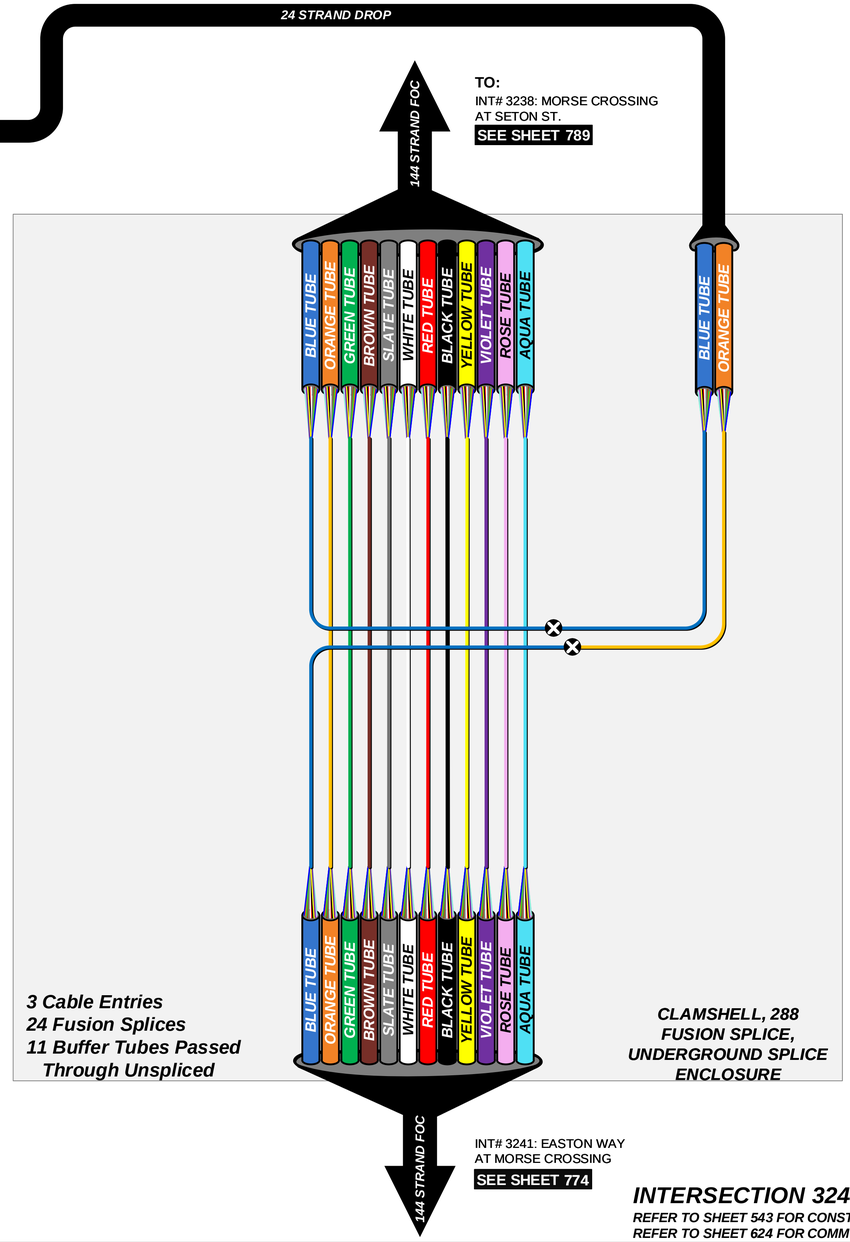
PORT 5: INT# 3270: EASTON LOOP W. AT GRAMERCY ST.
SEE SHEET 787

PORT 6: INT# 3251: EASTON LOOP W. AT EASTON WAY
SEE SHEET 775









PATCH PANEL ENCLOSURE – 24 TERMINATION

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 3244

REFER TO SHEET 543 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 624 FOR COMM OVERVIEW DETAILS

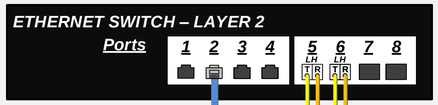
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PID NUMBER: 99733

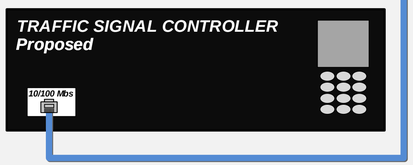
INT# 3244: GRAMERCY ST. AT MORSE CROSSING
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

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TRAFFIC SIGNAL CABINET ASSEMBLY

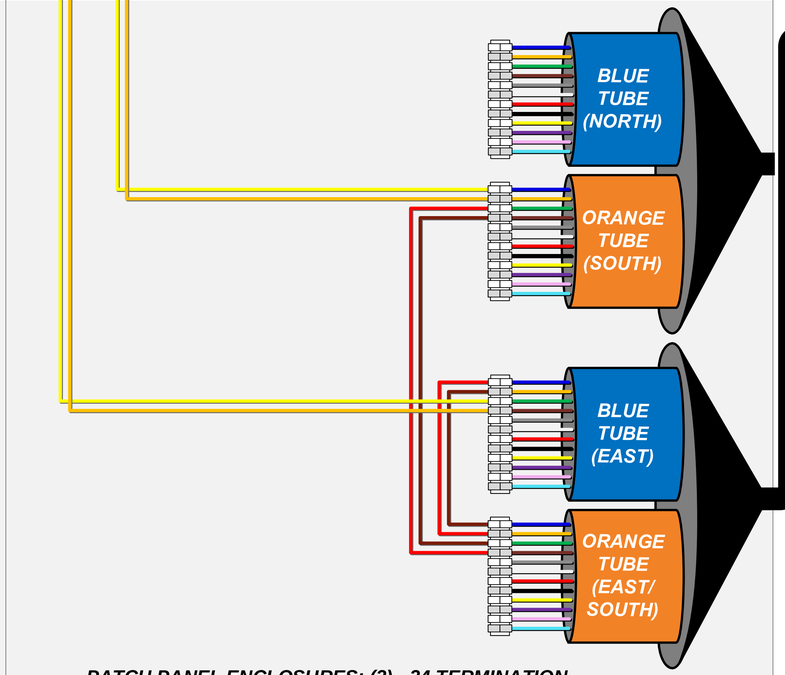




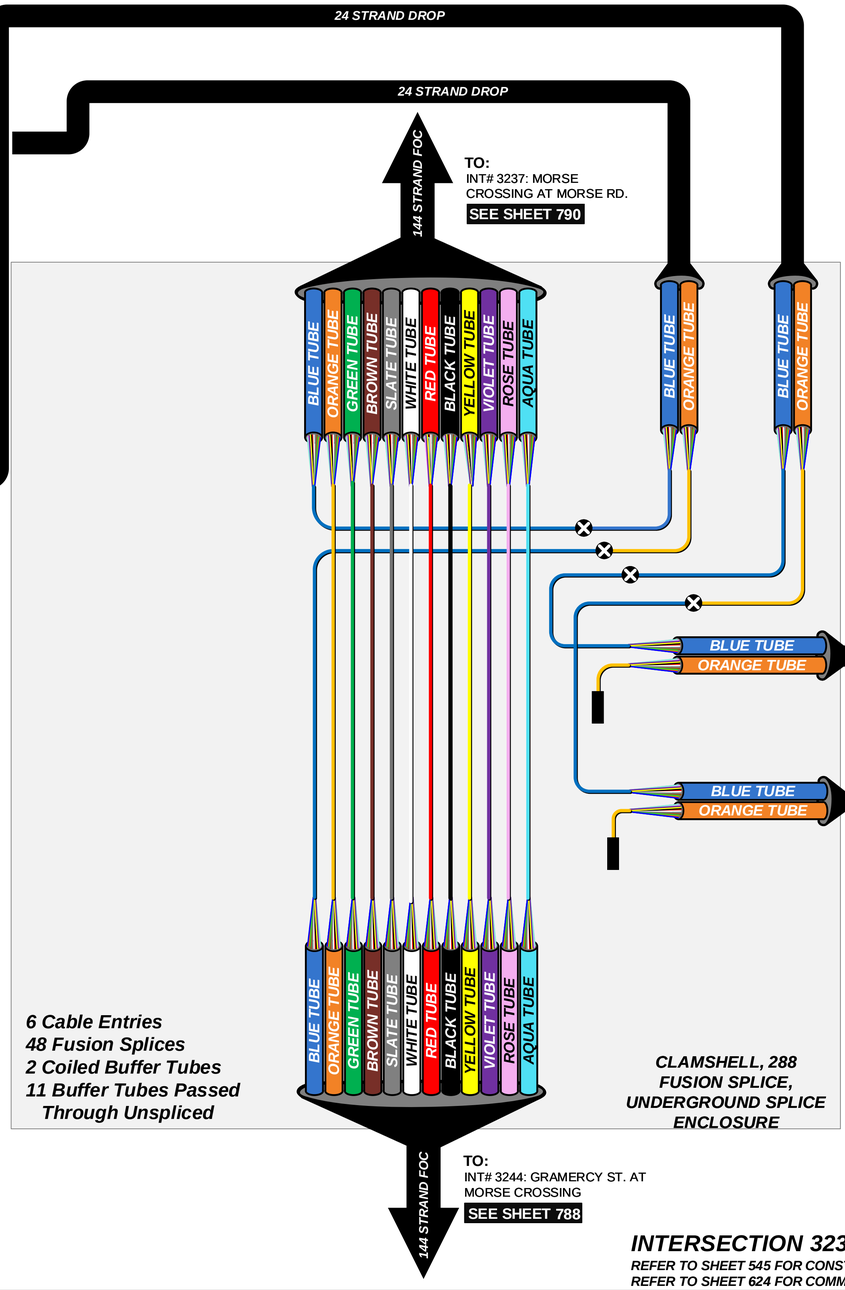
ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 3241: EASTON WAY AT MORSE CROSSING
SEE SHEET 774

PORT 6: INT# 3269: EASTON LOOP E. AT WORTH AVE.
SEE SHEET 785



PATCH PANEL ENCLOSURES: (2) - 24 TERMINATION



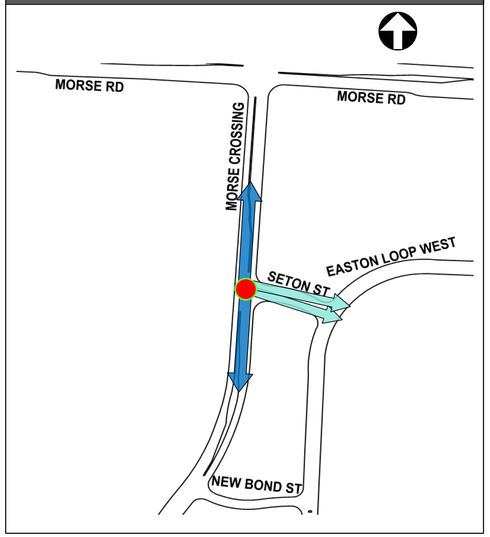
6 Cable Entries
48 Fusion Splices
2 Coiled Buffer Tubes
11 Buffer Tubes Passed Through Unspliced

CLAMSHELL, 288 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- LH/ZX — GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 3238

REFER TO SHEET 545 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 624 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100012
PID NUMBER: 99733

INT# 3238: MORSE CROSSING AT SETON ST.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

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TRAFFIC SIGNAL CABINET ASSEMBLY

EXISTING ETHERNET SWITCH – LAYER 2

Ports: 1 2 3 4 5 6 7 8 (5 6 LH T/R)

TRAFFIC SIGNAL CONTROLLER
Ex. Econolite ASC/3-2100
Ethernet Module
10/100 Mbs

ETHERNET SWITCH PORT DESTINATION

PORT 5: EXISTING CONNECTION TO INT# 3228: MORSE RD. AT STELZER RD.

PORT 6: INT# 3273: STELZER RD. AT SUNBURY RD.
SEE SHEET 792

BLUE TUBE (EAST)

ORANGE TUBE (WEST)

EXISTING 24 STRAND DROP

24 STRAND DROP

EXISTING PATCH PANEL ENCLOSURE - 24 TERMINATION

BLUE TUBE (SPARE)

ORANGE TUBE (SOUTH)

PATCH PANEL ENCLOSURE - 24 TERMINATION

BLUE TUBE
ORANGE TUBE

BLUE TUBE
ORANGE TUBE

BLUE TUBE	BLUE TUBE
ORANGE TUBE	ORANGE TUBE
GREEN TUBE	GREEN TUBE
BROWN TUBE	BROWN TUBE
SLATE TUBE	SLATE TUBE
WHITE TUBE	WHITE TUBE
RED TUBE	RED TUBE
BLACK TUBE	BLACK TUBE
YELLOW TUBE	YELOW TUBE
VIOLET TUBE	VIOLET TUBE
ROSE TUBE	ROSE TUBE
AQUA TUBE	AQUA TUBE

BLUE TUBE | ORANGE TUBE | GREEN TUBE | BROWN TUBE | SLATE TUBE | WHITE TUBE | RED TUBE | BLACK TUBE | YELLOW TUBE | VIOLET TUBE | ROSE TUBE | AQUA TUBE

144 STRAND FOC

EXISTING 144 STRAND FOC

TO:
INT# 3209: MORSE RD. AT SUNBURY RD.
SEE SHEET 791

EXISTING 144 STRAND FOC

TO:
EXISTING CONNECTION TO INT# 3231: EASTON LOOP & EASTON SQUARE AT MORSE RD.

5 Cable Entries
204 Proposed Fusion Splices
228 Total Fusion Splices
2 Coiled Buffer Tubes

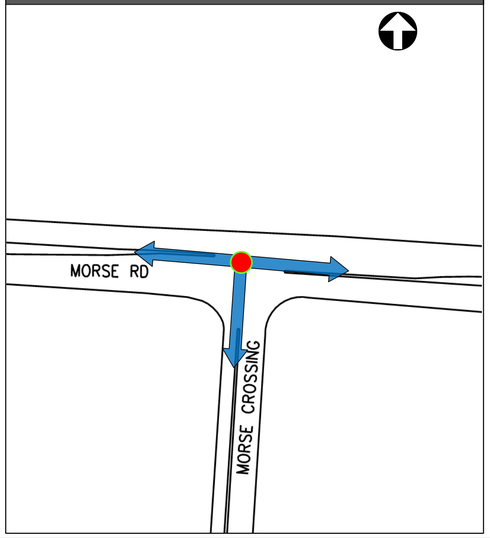
CLAMSHELL, 288 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE

TO:
INT# 3238: MORSE CROSSING AT SETON ST.
SEE SHEET 789

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- LH/ZX (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 3237

REFER TO SHEET 546 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 624 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100012
PID NUMBER: 99733

INT# 3237: MORSE CROSSING AT MORSE RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

790
915

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TRAFFIC SIGNAL CABINET ASSEMBLY

EXISTING ETHERNET SWITCH – LAYER 2

Ports 1 2 3 4 5 6 7 8 (5 LH T/R, 6 LH T/R)

TRAFFIC SIGNAL CONTROLLER
Ex. Econolite ASC/3-2100

Ethernet Module
10/100 Mbs

REVISED ETHERNET SWITCH PORT DESTINATION

PORT 5: EXISTING CONNECTION TO INT# 3231: MORSE RD. AT EASTON LOOP/ EASTON SQ.

PORT 6: INT# 3256: SUNBURY RD. AT WATT RD.
(Revised) SEE SHEET 793

EXISTING PATCH PANEL ENCLOSURE - 24 TERMINATION

- BLUE TUBE (EAST)
- ORANGE TUBE (WEST)
- BLUE TUBE (NORTH)
- ORANGE TUBE (SPARE)

PATCH PANEL ENCLOSURE - 24 TERMINATION

24 STRAND DROP

EXISTING 24 STRAND DROP

144 STRAND FOC

TO:
INT# 3273: STELZER RD.
AT SUNBURY RD.
SEE SHEET 792

BLUE TUBE, ORANGE TUBE, GREEN TUBE, BROWN TUBE, SLATE TUBE, WHITE TUBE, RED TUBE, BLACK TUBE, YELLOW TUBE, VIOLET TUBE, ROSE TUBE, AQUA TUBE

BLUE TUBE, ORANGE TUBE

BLUE TUBE, ORANGE TUBE

BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE
RED TUBE
BLACK TUBE
YELLOW TUBE
VIOLET TUBE
ROSE TUBE
AQUA TUBE

EXISTING 144 STRAND FOC

TO:
EXISTING CONNECTION TO INT# 3291: MORSE RD. AT WESTERVILLE RD.

BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE
RED TUBE
BLACK TUBE
YELLOW TUBE
VIOLET TUBE
ROSE TUBE
AQUA TUBE

EXISTING 144 STRAND FOC

TO:
INT# 3237: MORSE CROSSING AT MORSE RD.
SEE SHEET 790

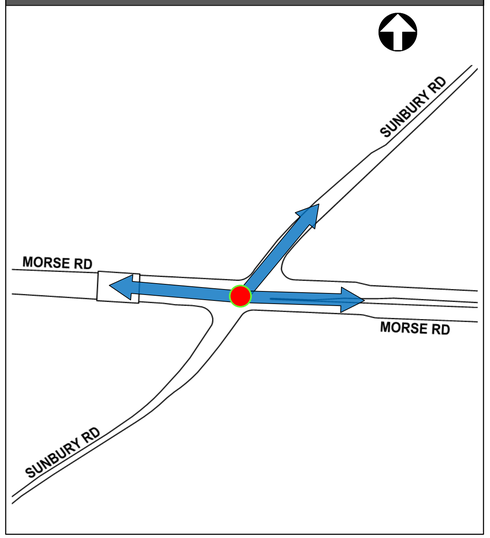
5 Cable Entries
204 Proposed Fusion Splices
228 Total Fusion Splices
2 Coiled Buffer Tubes

CLAMSHELL, 288 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- LH/ZX (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



NOTES.

DISCONNECT EXISTING LC FIBER PATCH CABLES BETWEEN EXISTING PATCH PANEL AND NETWORK SWITCH. REPLACE CONNECTION WITH PATCH CABLES AS SHOWN IN COLOR ON PLAN ABOVE.

INTERSECTION 3209
REFER TO SHEET 557 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 624 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100012
PID NUMBER: 99733

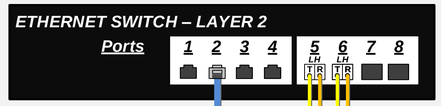
INT# 3209: MORSE RD. AT SUNBURY RD.
COMMUNICATIONS DIAGRAM

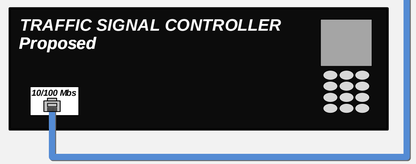
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

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915

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TRAFFIC SIGNAL CABINET ASSEMBLY

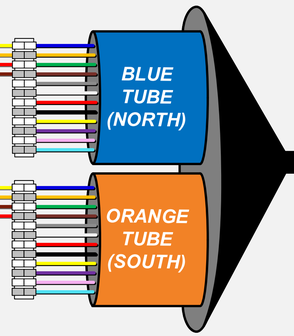




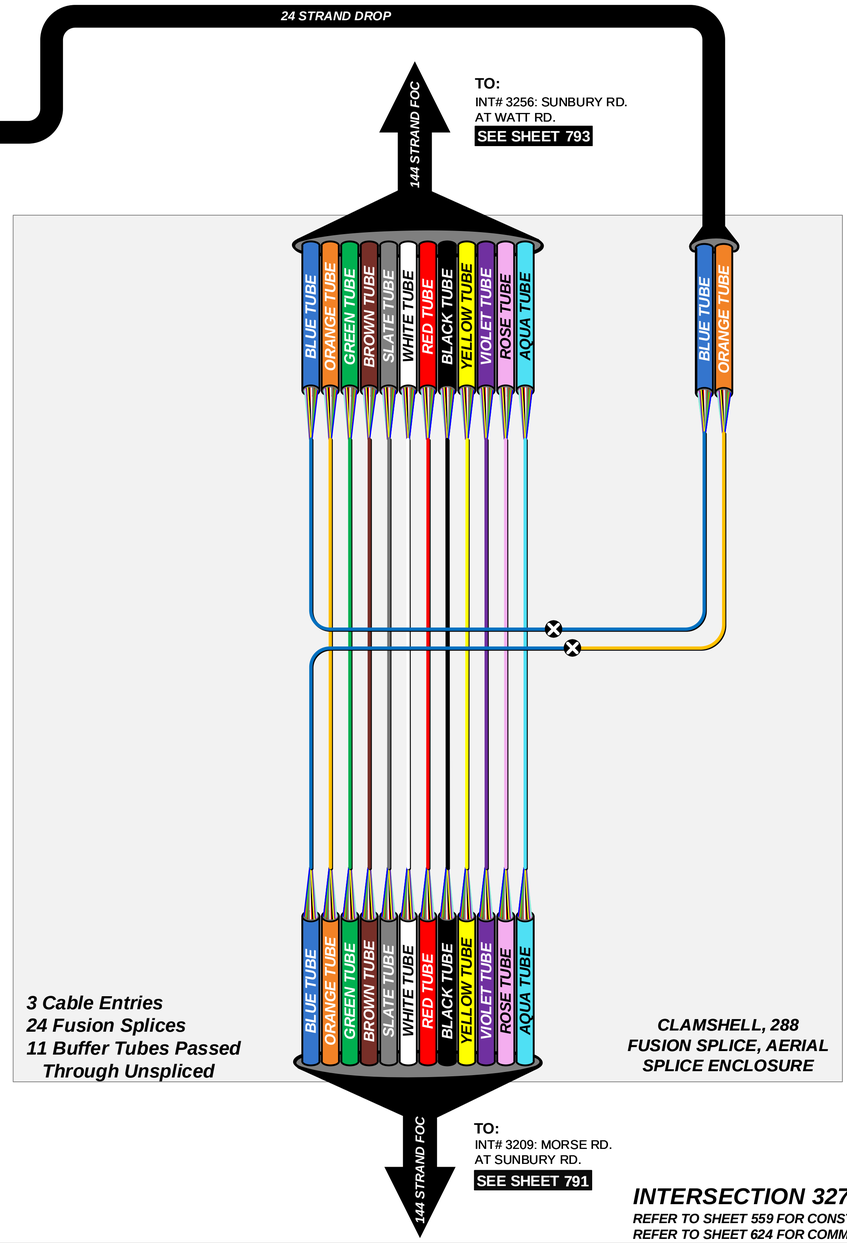
ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 3256: SUNBURY RD. AT WATT RD.
SEE SHEET 793

PORT 6: INT# 3237: MORSE CROSSING AT MORSE RD.
SEE SHEET 790



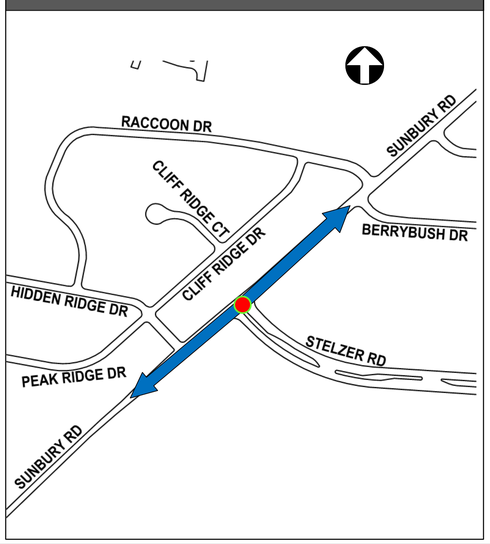
PATCH PANEL ENCLOSURE – 24 TERMINATION



LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- LH/ZX — GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 3273

REFER TO SHEET 559 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 624 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100012
PID NUMBER: 99733

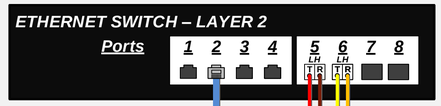
INT# 3273: STELZER RD. AT SUNBURY RD.
COMMUNICATIONS DIAGRAM

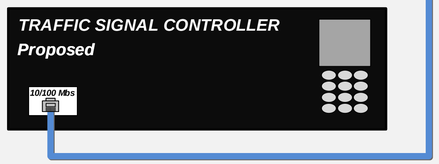
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

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915

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TRAFFIC SIGNAL CABINET ASSEMBLY

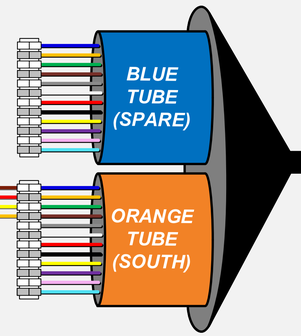


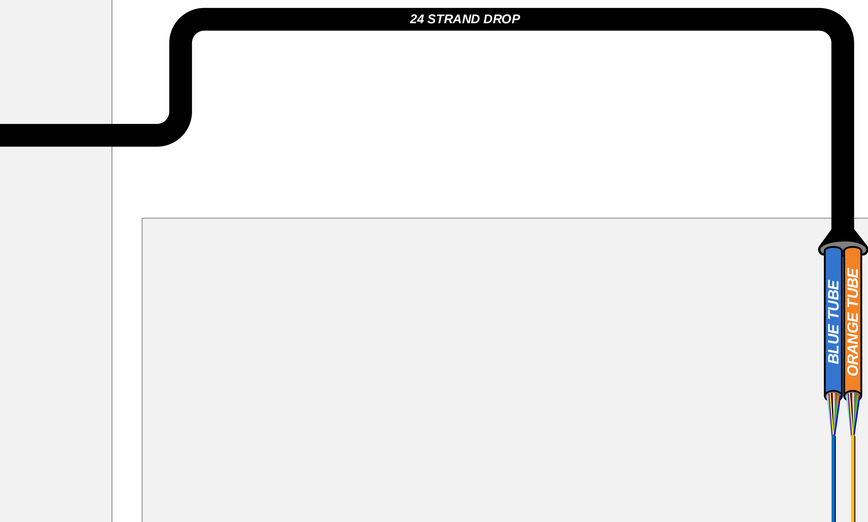


ETHERNET SWITCH PORT DESTINATION

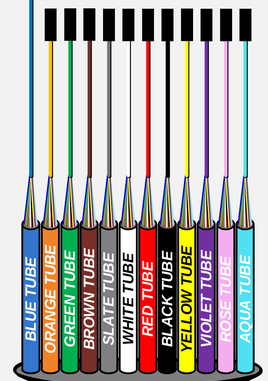
PORT 5: INT# 3273: STELZER RD. AT SUNBURY RD.
SEE SHEET 792

PORT 6: INT# 3209: MORSE RD. AT SUNBURY RD.
SEE SHEET 791





PATCH PANEL ENCLOSURE – 24 TERMINATION



2 Cable Entries
12 Fusion Splices
12 Coiled Buffer Tubes

CLAMSHELL, 288 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

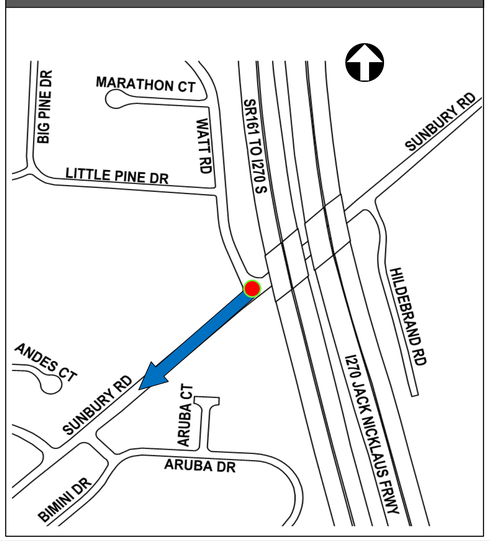
144 STRAND FOC

TO:
INT# 3273: STELZER RD. AT SUNBURY RD.
SEE SHEET 792

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- LH/ZX (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 3256

REFER TO SHEET 561 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 624 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100012
PID NUMBER: 99733

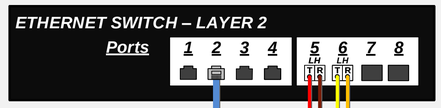
INT# 3256: SUNBURY RD. AT WATT RD.
COMMUNICATIONS DIAGRAM

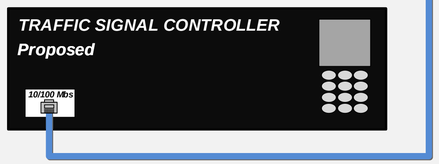
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

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TRAFFIC SIGNAL CABINET ASSEMBLY

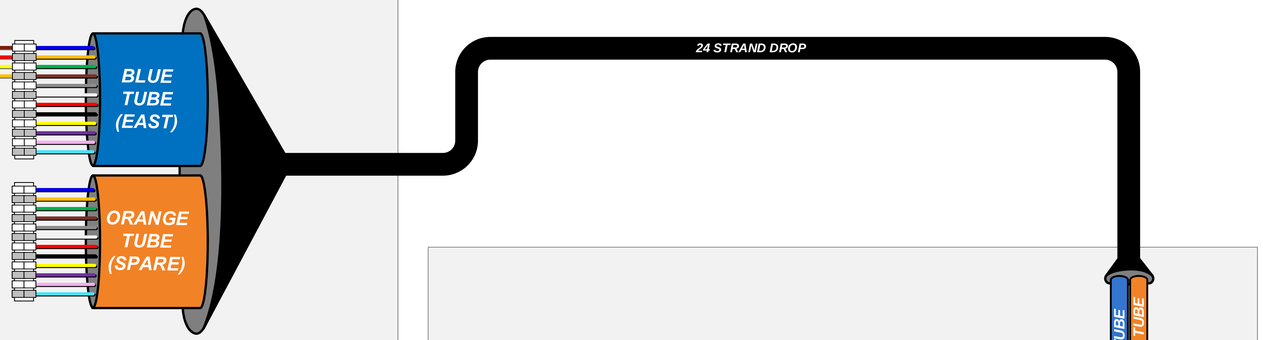




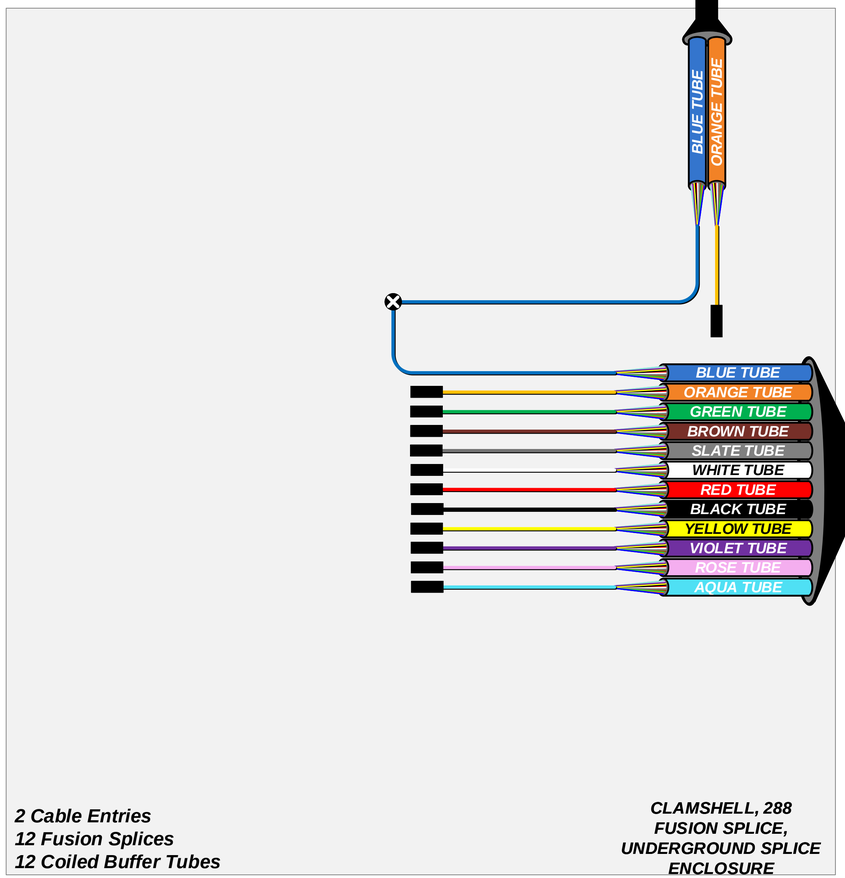
ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 3248: HAMILTON RD. AT MORSE RD.
SEE SHEET 795

PORT 6: INT# 3222: BROADVIEW DR. / CHESTNUT HILL DR. AT HAMILTON RD.
SEE SHEET 796



PATCH PANEL ENCLOSURE – 24 TERMINATION



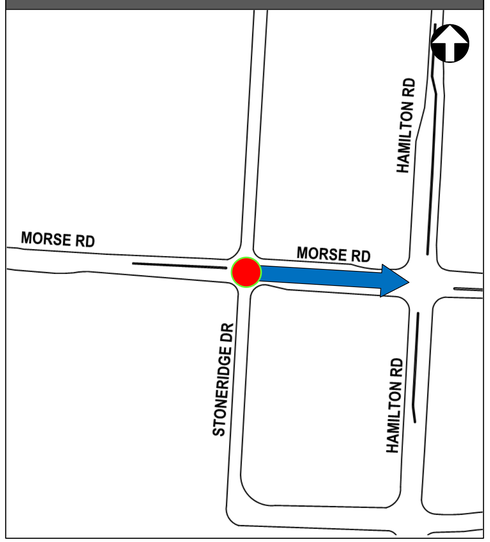
2 Cable Entries
12 Fusion Splices
12 Coiled Buffer Tubes

CLAMSHELL, 288 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- LH/ZX (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 3249

REFER TO SHEET 263 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 625 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100012
PID NUMBER: 99733

INT# 3249: KOHL'S AND STONE RIDGE PL. AT MORSE RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

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915

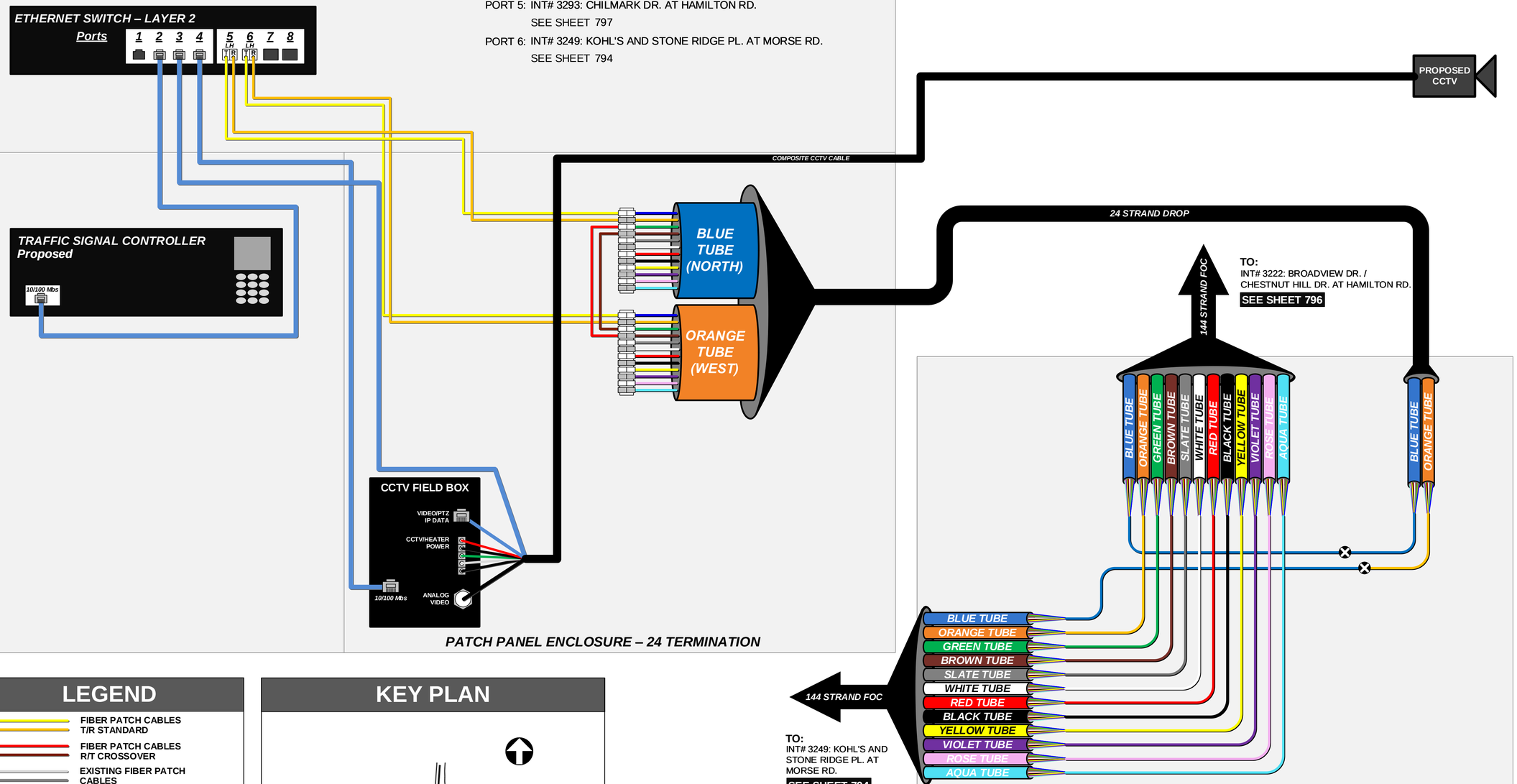
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TRAFFIC SIGNAL CABINET ASSEMBLY

ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 3293: CHILMARK DR. AT HAMILTON RD.
SEE SHEET 797

PORT 6: INT# 3249: KOHL'S AND STONE RIDGE PL. AT MORSE RD.
SEE SHEET 794



PATCH PANEL ENCLOSURE – 24 TERMINATION

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 3248

REFER TO SHEET 264 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 625 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100012
PID NUMBER: 99733

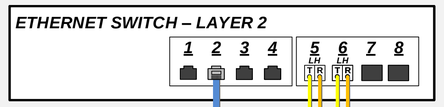
INT# 3248: HAMILTON RD. AT MORSE RD.
COMMUNICATIONS DIAGRAM

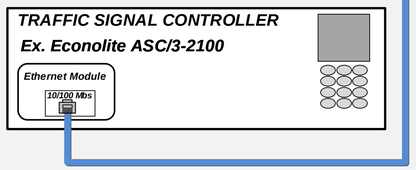
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

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TRAFFIC SIGNAL CABINET ASSEMBLY

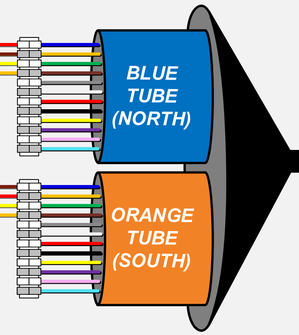


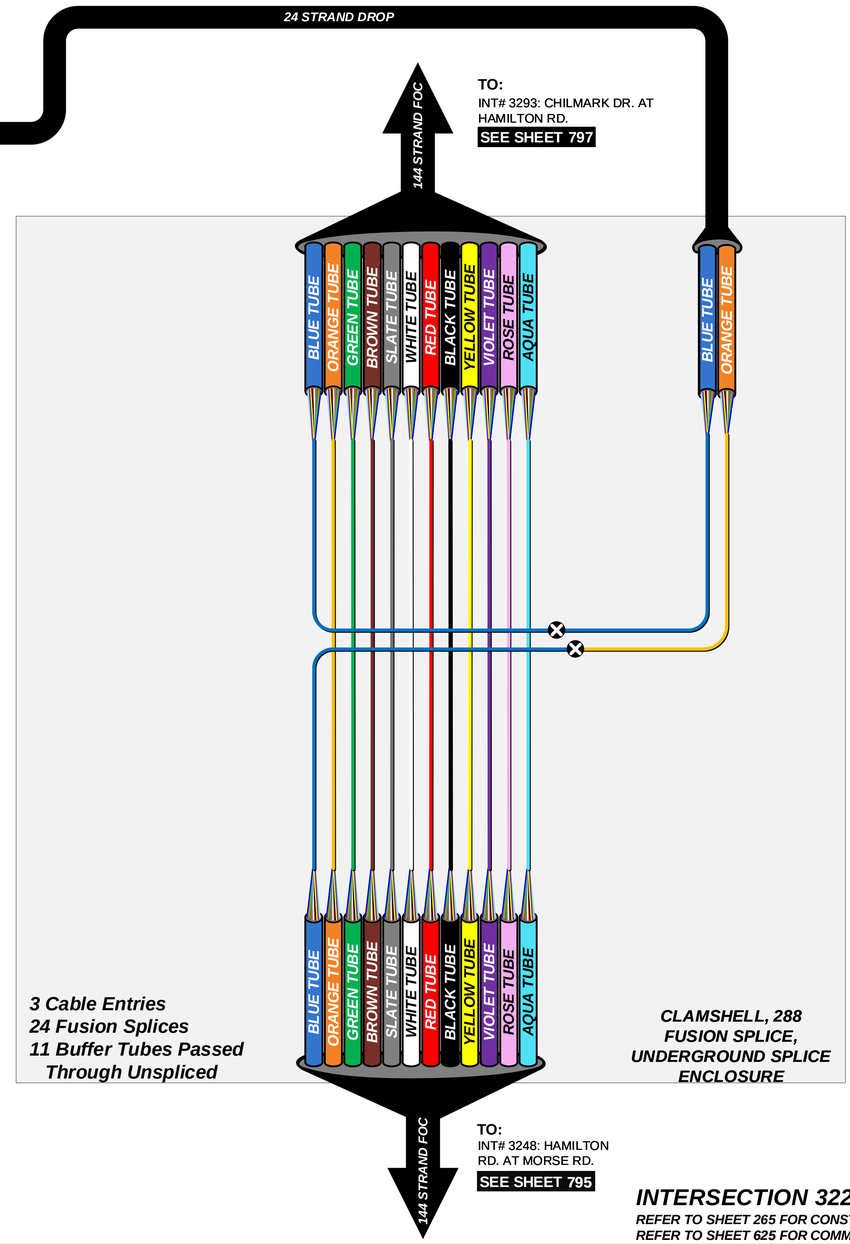


ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 3261: HAMILTON RD. AT THOMPSON RD.
SEE SHEET 798

PORT 6: INT# 3249: KOHL'S AND STONE RIDGE PL. AT MORSE RD.
SEE SHEET 794



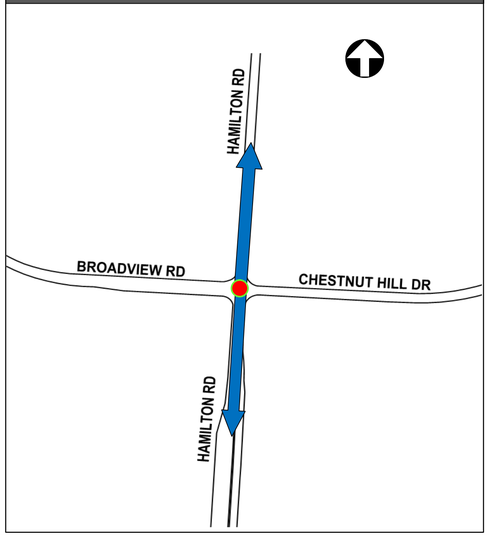


PATCH PANEL ENCLOSURE – 24 TERMINATION

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- LH/ZX (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 3222

REFER TO SHEET 265 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 625 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100012
PID NUMBER: 99733

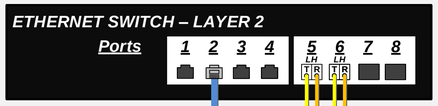
INT# 3222: BROADVIEW DR. / CHESTNUT HILL DR. AT HAMILTON RD.
COMMUNICATIONS DIAGRAM

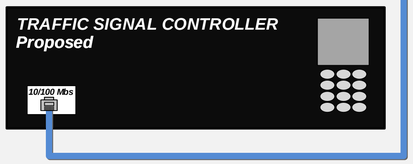
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

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TRAFFIC SIGNAL CABINET ASSEMBLY

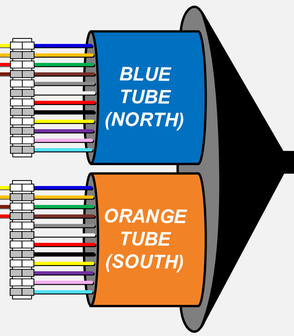




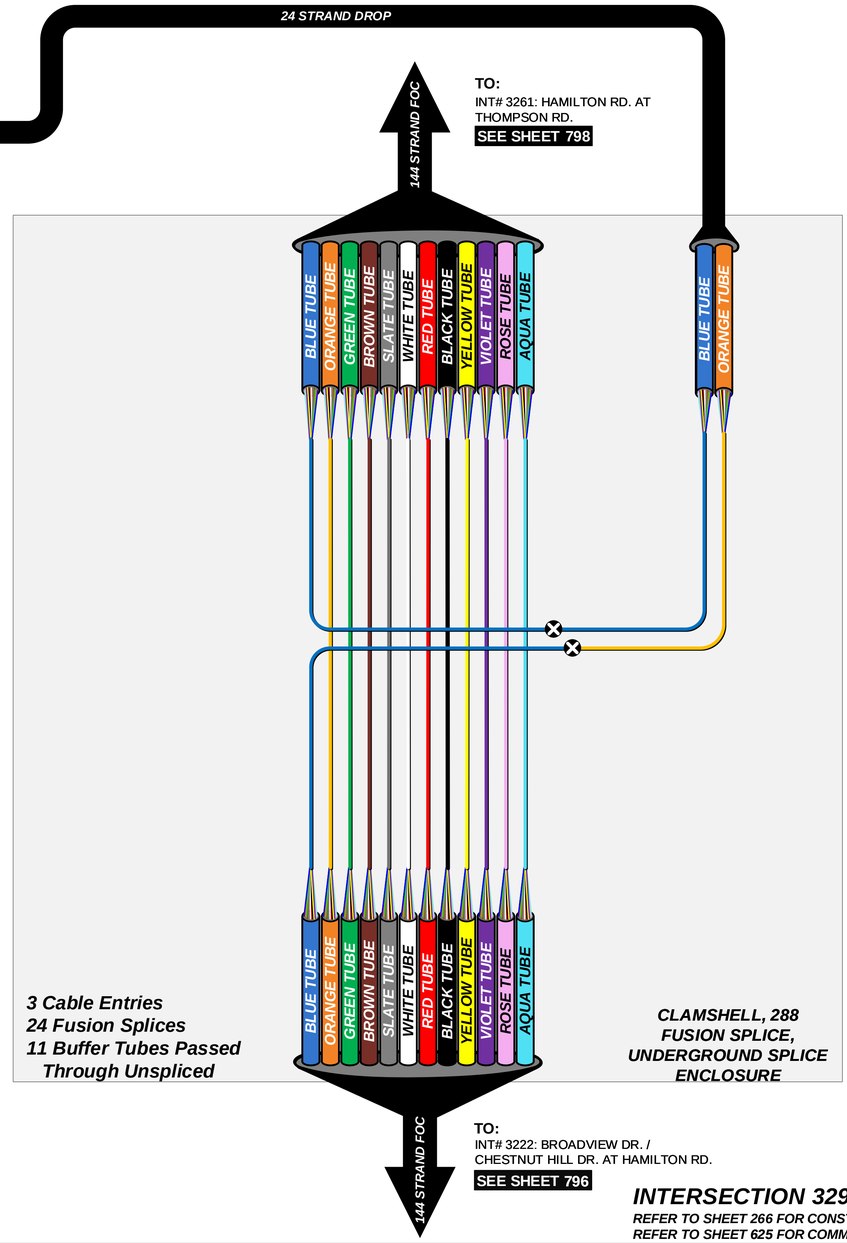
ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 3262: HAMILTON RD. AT MENEREY LN. / PRESERVE BLVD.
SEE SHEET 799

PORT 6: INT# 3248: HAMILTON RD. AT MORSE RD.
SEE SHEET 795



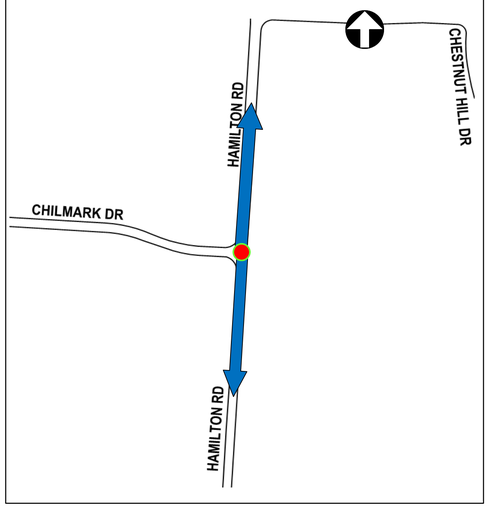
PATCH PANEL ENCLOSURE – 24 TERMINATION



LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 3293

REFER TO SHEET 266 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 625 FOR COMM OVERVIEW DETAILS

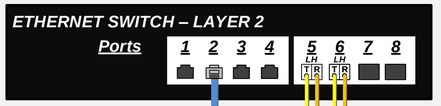
CIP: 540007 - 100012
PID NUMBER: 99733

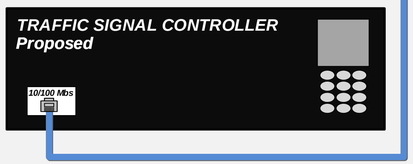
INT# 3293: CHILMARK DR. AT HAMILTON RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

J:\Jobs\63721 CTSS Phase E\TECHPROD\Communications\Intersection Splicing Details\788-804.vsd - 3293 layout - last saved by: skoganti 9/13/2018 5:21:57 PM ~ printed: 9/13/2018 5:21:57 PM

TRAFFIC SIGNAL CABINET ASSEMBLY

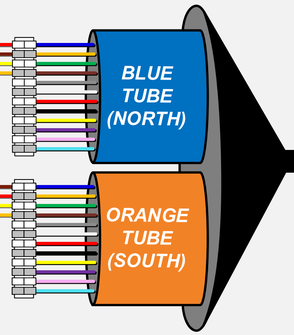




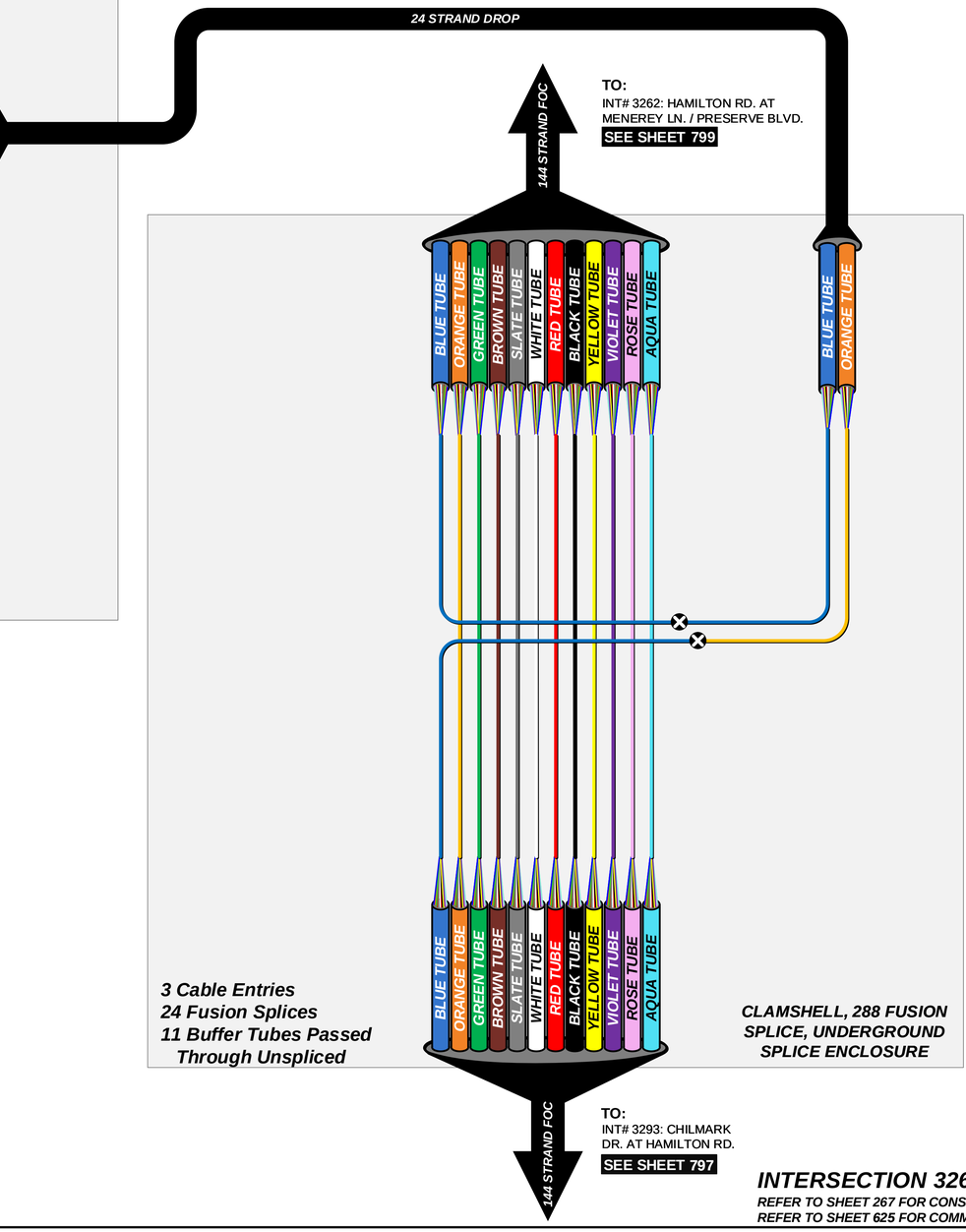
ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 3240: HAMILTON RD. AT OLD DUBLIN GRANVILLE RD.
SEE SHEET 800

PORT 6: INT# 3222: BROADVIEW DR. / CHESTNUT HILL DR. AT HAMILTON RD.
SEE SHEET 796



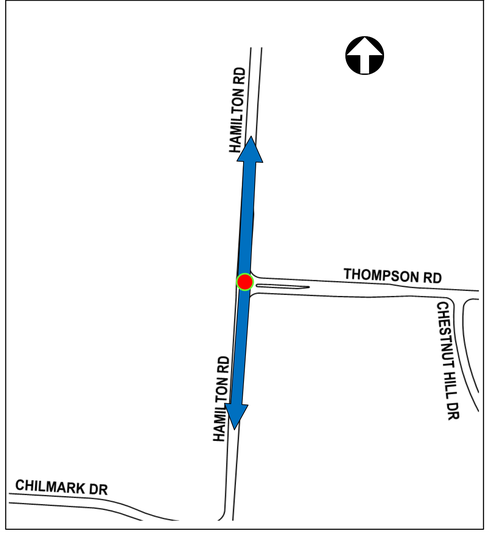
PATCH PANEL ENCLOSURE – 24 TERMINATION



LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- LH/ZX (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 3261

REFER TO SHEET 267 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 625 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100012
PID NUMBER: 99733

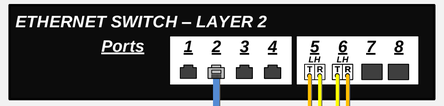
INT# 3261: HAMILTON RD. AT THOMPSON RD.
COMMUNICATIONS DIAGRAM

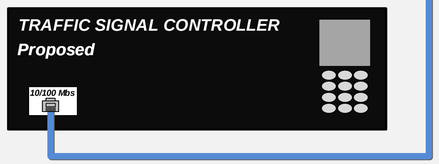
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

798
915

J:\Jobs\63721 CTSS Phase E\TECHPROD\Communications\Intersection Splicing Details\788-804.vsd - 3261 layout - last saved by: skoganti 9/13/2018 5:21:57 PM - printed: 9/13/2018 5:21:57 PM

TRAFFIC SIGNAL CABINET ASSEMBLY

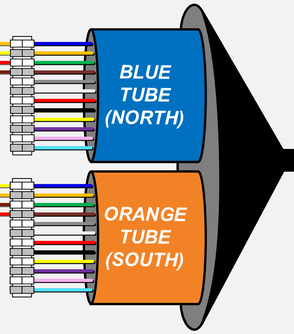




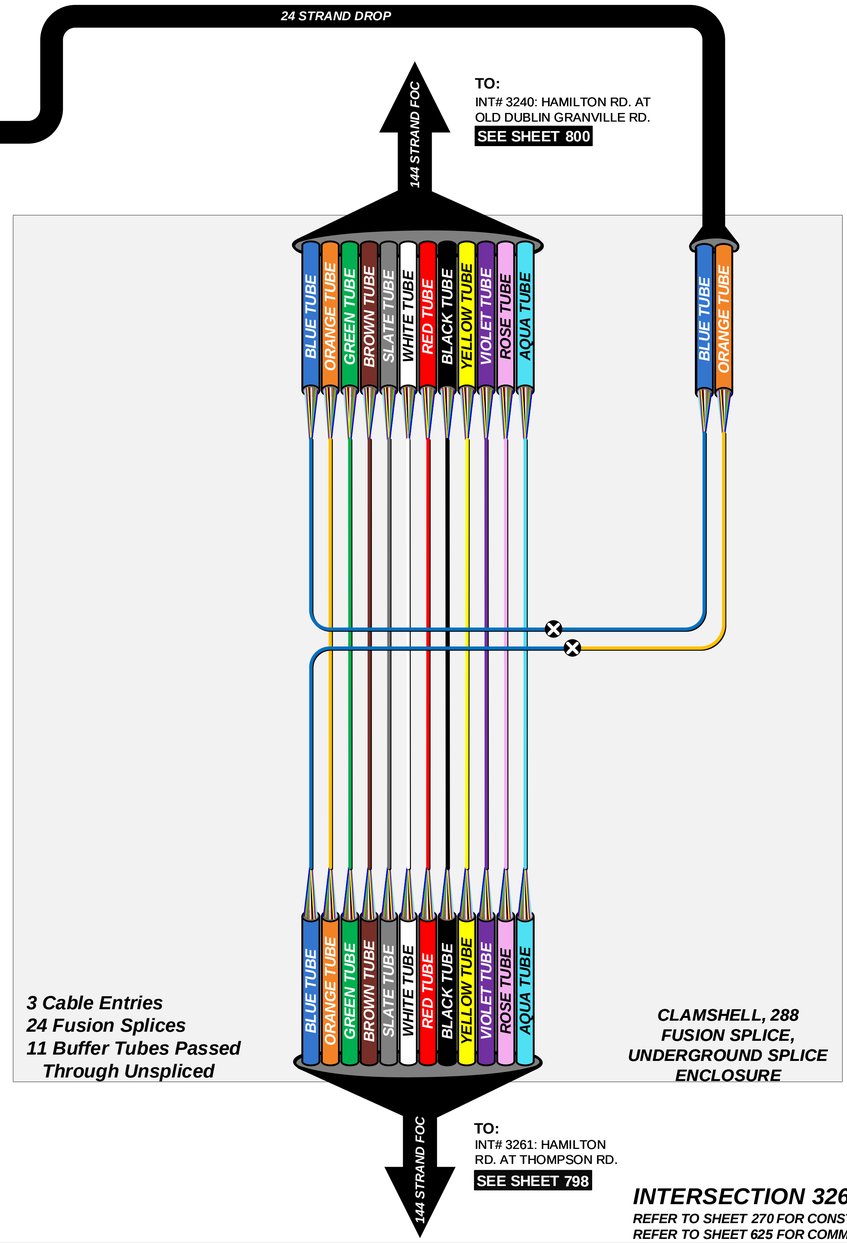
ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 3284: HAMILTON RD. AT DUBLIN GRANVILLE RD.
SEE SHEET 802

PORT 6: INT# 3293: CHILMARK DR. AT HAMILTON RD.
SEE SHEET 797



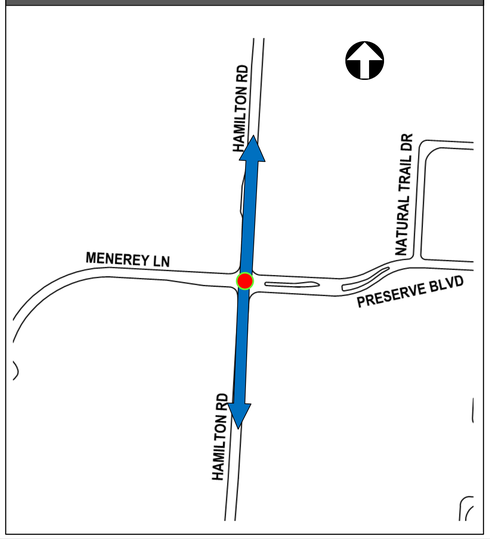
PATCH PANEL ENCLOSURE – 24 TERMINATION



LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- LH/ZX — GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 3262

REFER TO SHEET 270 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 625 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100012
PID NUMBER: 99733

INT# 3262: HAMILTON RD. AT MENEREY LN. / PRESERVE BLVD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

J:\Jobs\63721 CTSS Phase E\TECH\PROD\Communications\Intersection Splicing Details\788-804.vsd - 3262 layout ~ last saved by: skoganti 9/13/2018 5:21:57 PM ~ printed: 9/13/2018 5:21:57 PM

TRAFFIC SIGNAL CABINET ASSEMBLY

EXISTING ETHERNET SWITCH – LAYER 2

Ports 1 2 3 4 5 6 7 8 (5, 6: LH T/R)

TRAFFIC SIGNAL CONTROLLER
Ex. Econolite ASC/3-2100

Ethernet Module — *10/100 Mbs*

ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 3216: DUBLIN GRANVILLE RD. AT ULRY RD.
SEE SHEET 806

PORT 6: INT# 3261: HAMILTON RD. AT THOMPSON RD.
SEE SHEET 798

COMPOSITE CCTV CABLE

PROPOSED CCTV

BLUE TUBE (NORTH)

ORANGE TUBE (WEST)

EXISTING 24 STRAND DROP

EXISTING 144 STRAND FOC

TO:
SPLICE-01: HAMILTON RD. AT OLD DUBLIN GRANVILLE RD.
SEE SHEET 801

EXISTING 144 STRAND FOC

TO:
INT# 3284: HAMILTON RD. AT DUBLIN GRANVILLE RD.
SEE SHEET 802

BLUE TUBE, ORANGE TUBE, GREEN TUBE, BROWN TUBE, SLATE TUBE, WHITE TUBE, RED TUBE, BLACK TUBE, YELLOW TUBE, VIOLET TUBE, ROSE TUBE, AQUA TUBE

BLUE TUBE, ORANGE TUBE, GREEN TUBE, BROWN TUBE, SLATE TUBE, WHITE TUBE, RED TUBE, BLACK TUBE, YELLOW TUBE, VIOLET TUBE, ROSE TUBE, AQUA TUBE

BLUE TUBE, ORANGE TUBE

EXISTING SPLICE ENCLOSURE

CCTV FIELD BOX

VIDEO/PTZ IP DATA

CCTV/HEATER POWER

10/100 Mbs

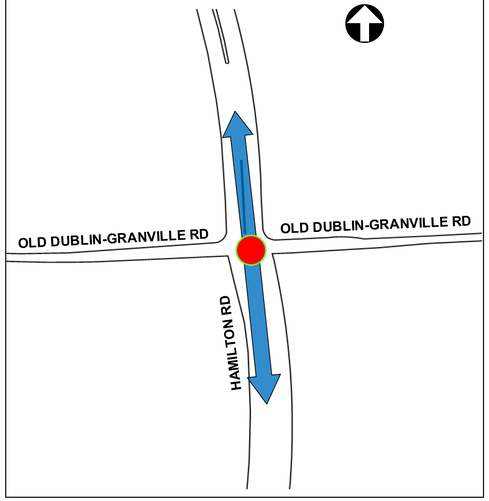
ANALOG VIDEO

EXISTING PATCH PANEL ENCLOSURE – 24 TERMINATION

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- *LH/ZX* (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



Notes
Refer to 3335-E Dublin Granville Road Realignment project for any existing work shown on this sheet.

INTERSECTION 3240
REFER TO SHEET 275 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 626 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100012
PID NUMBER: 99733

INT# 3240: HAMILTON RD. AT OLD DUBLIN GRANVILLE RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

800
915

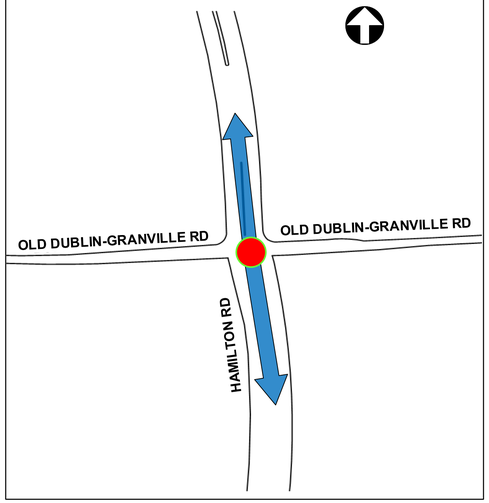
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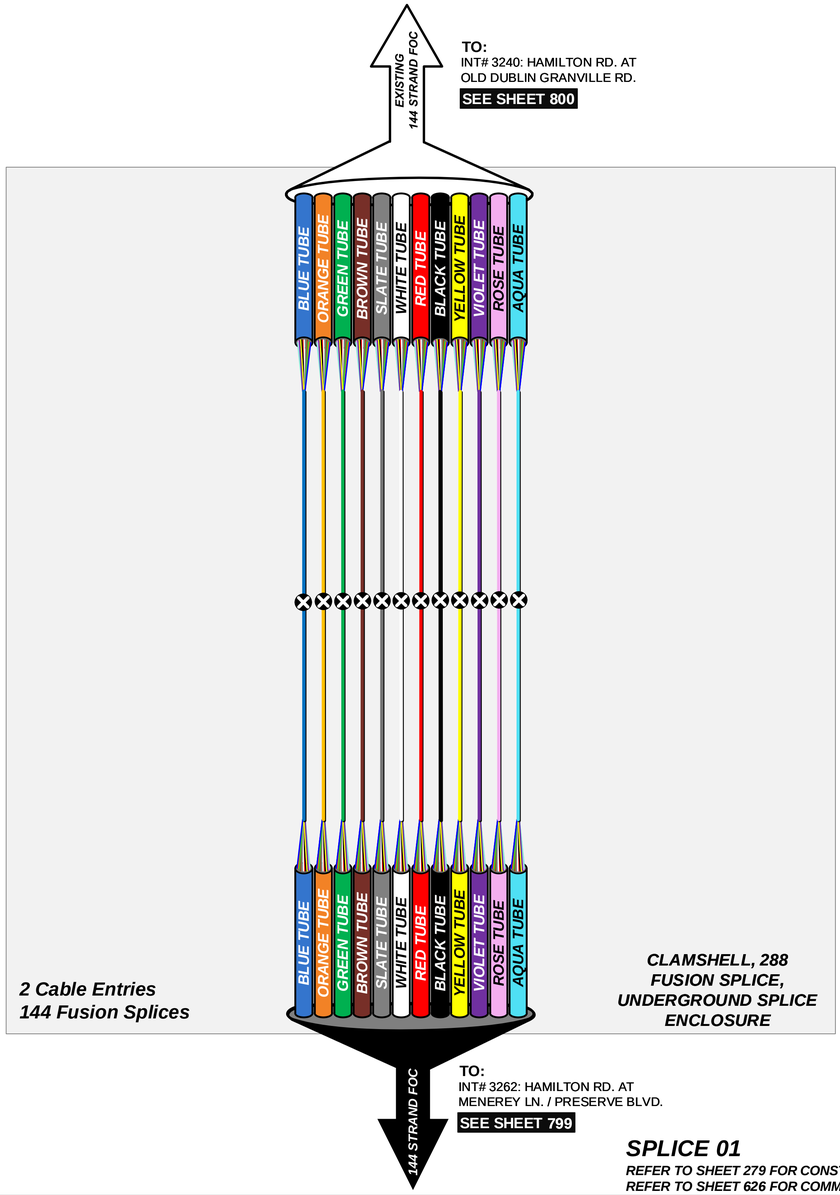
LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- *LH/ZX* (T/R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



Notes
Refer to 3335-E Dublin Granville Road Realignment project for any existing work shown on this sheet.



SPLICE 01

REFER TO SHEET 279 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 626 FOR COMM OVERVIEW DETAILS

SPLICE-01: HAMILTON RD. AT OLD DUBLIN GRANVILLE RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

CIP: 540007 - 100012
PID NUMBER: 99733

TRAFFIC SIGNAL CABINET ASSEMBLY

EXISTING ETHERNET SWITCH – LAYER 2

Ports 1 2 3 4 5 6 7 8 (5 LH, 6 LH; T R T R)

TRAFFIC SIGNAL CONTROLLER
Ex. Econolite ASC/3-2100

Ethernet Module — *10/100 Mbs*

ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 3247: HAMILTON RD. AT SR-161 WB
SEE SHEET 804

PORT 6: INT# 3262: HAMILTON RD. AT MENEREY LN. / PRESERVE BLVD.
SEE SHEET 799

BLUE TUBE (NORTH)
ORANGE TUBE (SOUTH)
BLUE TUBE (WEST)
ORANGE TUBE (SPARE)

EXISTING PATCH PANEL ENCLOSURES: (2) – 24 TERMINATION

EXISTING 24 STRAND DROP

EXISTING 24 STRAND DROP

EXISTING 144 STRAND FOC

TO:
INT# 3281: HAMILTON RD. AT SR-161 EB
SEE SHEET 803

BLUE TUBE, ORANGE TUBE, GREEN TUBE, BROWN TUBE, SLATE TUBE, WHITE TUBE, RED TUBE, BLACK TUBE, YELLOW TUBE, VIOLET TUBE, ROSE TUBE, AQUA TUBE

BLUE TUBE, ORANGE TUBE

BLUE TUBE, ORANGE TUBE

EXISTING 144 STRAND FOC

TO:
INT# 3210: DUBLIN GRANVILLE RD. AT HAMILTON RD. W.
SEE SHEET 805

BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE
RED TUBE
BLACK TUBE
YELLOW TUBE
VIOLET TUBE
ROSE TUBE
AQUA TUBE

BLUE TUBE, ORANGE TUBE, GREEN TUBE, BROWN TUBE, SLATE TUBE, WHITE TUBE, RED TUBE, BLACK TUBE, YELLOW TUBE, VIOLET TUBE, ROSE TUBE, AQUA TUBE

EXISTING SPLICE ENCLOSURE

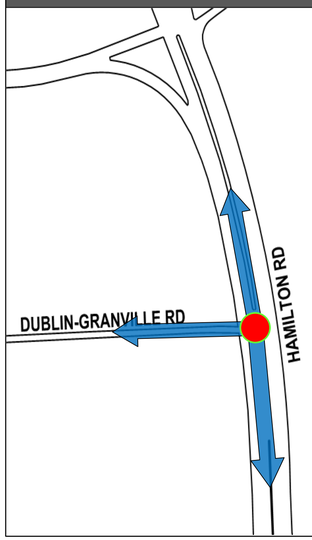
EXISTING 144 STRAND FOC

TO:
INT# 3240: HAMILTON RD. AT OLD DUBLIN GRANVILLE RD.
SEE SHEET 800

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- *LH/ZX* (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



NOTES.

REFER TO 3335-E DUBLIN GRANVILLE ROAD REALIGNMENT PROJECT FOR ANY EXISTING WORK SHOWN ON THIS SHEET.

INTERSECTION 3284

REFER TO SHEET 626 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100012
PID NUMBER: 99733

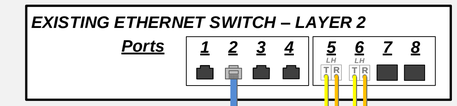
INT# 3284: HAMILTON RD. AT DUBLIN GRANVILLE RD.
COMMUNICATIONS DIAGRAM

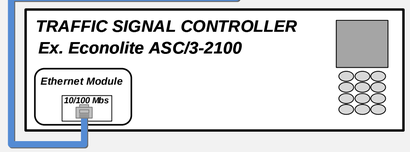
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

802
915

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TRAFFIC SIGNAL CABINET ASSEMBLY

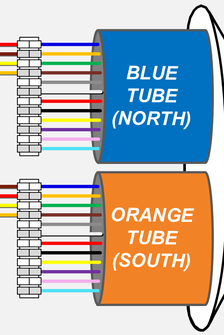




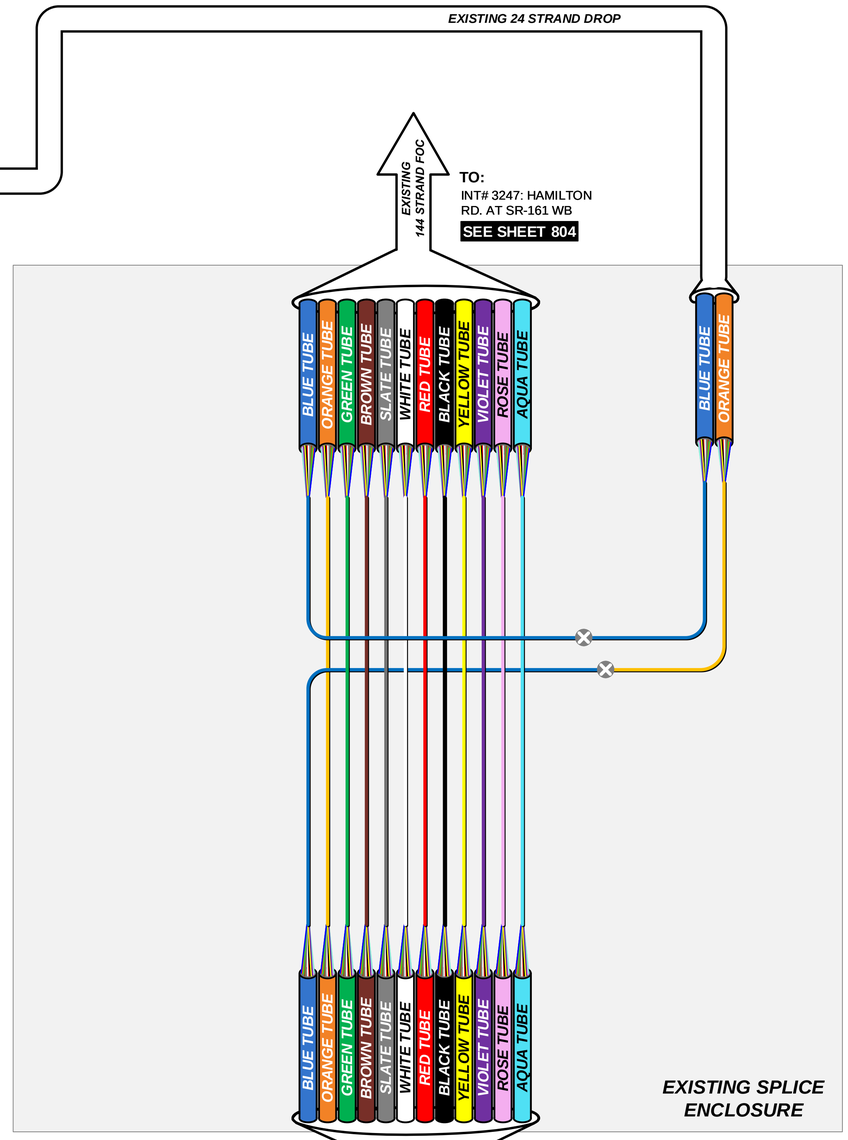
ETHERNET SWITCH PORT DESTINATION

PORT 5: PROPOSED COMMUNICATION NODE# 161043.8: SR-161 AT HAMILTON RD.
SEE SHEET 876

PORT 6: INT# 3210: DUBLIN GRANVILLE RD. AT HAMILTON RD. W.
SEE SHEET 805



PATCH PANEL ENCLOSURE – 24 TERMINATION

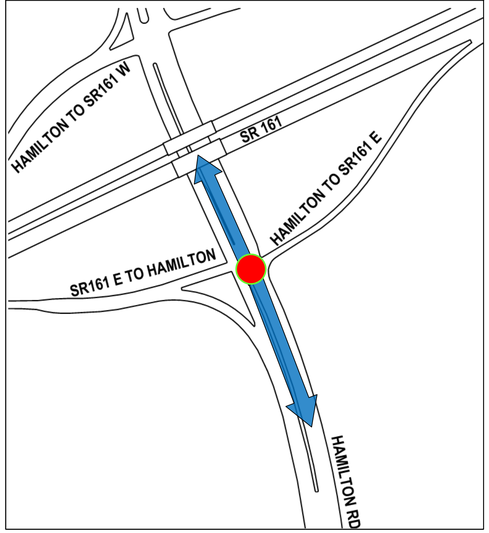


EXISTING SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- *LH/ZX* (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



NOTES.

REFER TO 3335-E DUBLIN GRANVILLE ROAD REALIGNMENT PROJECT FOR ANY EXISTING WORK SHOWN ON THIS SHEET.

INTERSECTION 3281

REFER TO SHEET 276 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 626 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100012
PID NUMBER: 99733

INT# 3281: HAMILTON RD. AT SR-161 EB
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

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TRAFFIC SIGNAL CABINET ASSEMBLY

EXISTING ETHERNET SWITCH – LAYER 2

Ports 1 2 3 4 5 6 7 8 (5, 6: LH T/R)

TRAFFIC SIGNAL CONTROLLER
Ex. Econolite ASC/3-2100

Ethernet Module — *10/100 Mbs*

ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 3284: HAMILTON RD. AT DUBLIN GRANVILLE RD.
SEE SHEET 802

PORT 6: PROPOSED COMMUNICATION NODE# 161043.8: SR-161 AT HAMILTON RD.
SEE SHEET 876

BLUE TUBE (SOUTH)

ORANGE TUBE (NORTH)

EXISTING PATCH PANEL ENCLOSURE – 24 TERMINATION

EXISTING 24 STRAND DROP

144 STRAND FOC

TO:
PROPOSED COMMUNICATION NODE# 161043.8: SR-161 AT HAMILTON RD.
SEE SHEET 877

BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE
RED TUBE
BLACK TUBE
YELLOW TUBE
VIOLET TUBE
ROSE TUBE
AQUA TUBE

BLUE TUBE
ORANGE TUBE

3 Cable Entries
144 Proposed Fusion Splices
156 Total Fusion Splices

CLAMSHELL, 288 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE

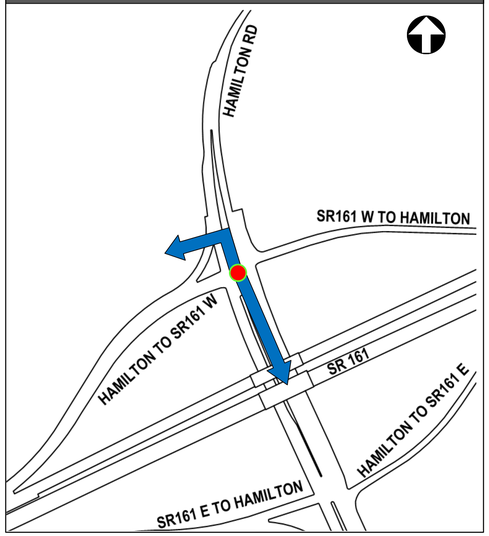
EXISTING 144 STRAND FOC

TO:
INT# 3281: HAMILTON RD. AT SR-161 EB
SEE SHEET 803

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- *LH/ZX* (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



NOTES.

REFER TO 3335-E DUBLIN GRANVILLE ROAD REALIGNMENT PROJECT FOR ANY EXISTING WORK SHOWN ON THIS SHEET.

INTERSECTION 3247

REFER TO SHEET 277 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 626 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100012
PID NUMBER: 99733

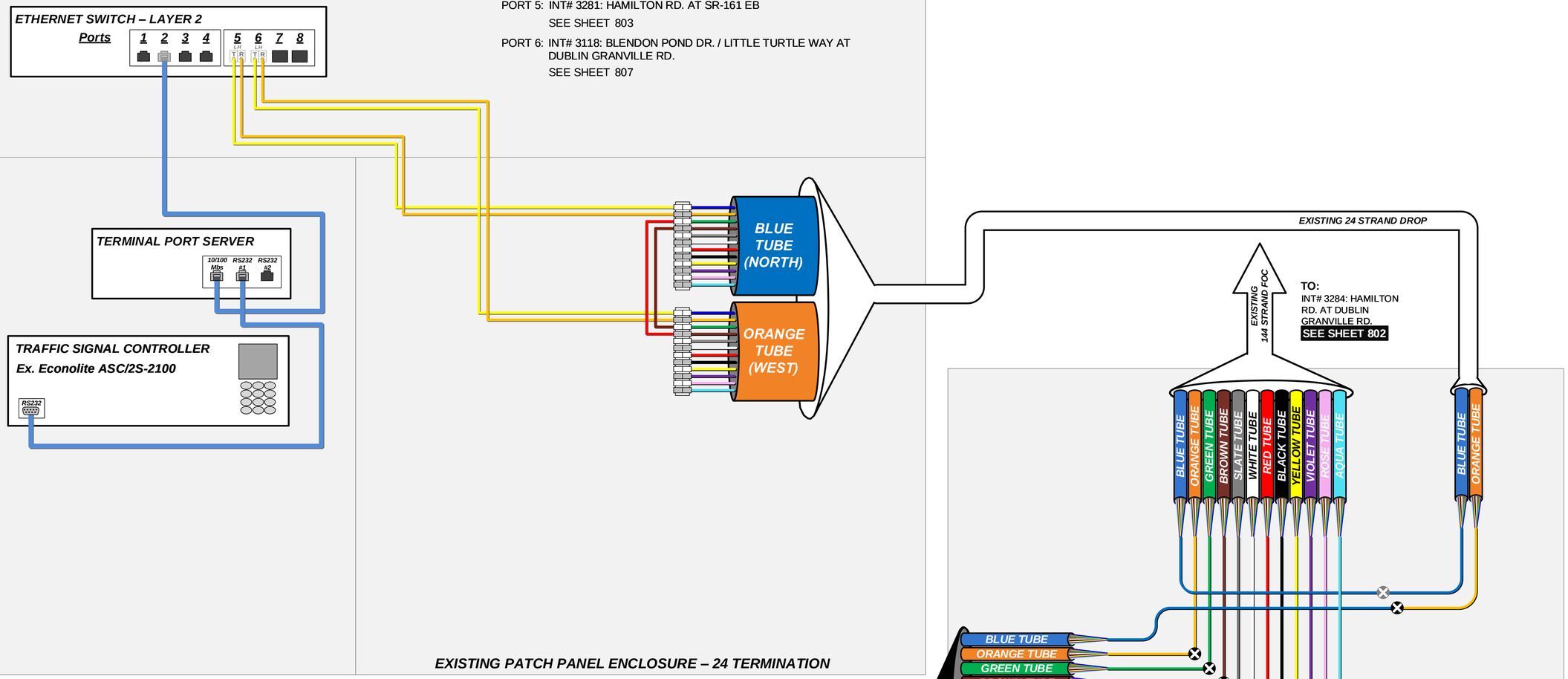
INT# 3247: HAMILTON RD. AT SR-161 WB
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

804
915

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TRAFFIC SIGNAL CABINET ASSEMBLY



ETHERNET SWITCH PORT DESTINATION

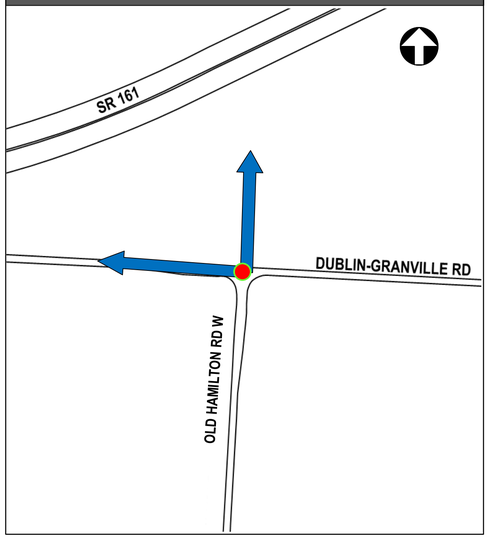
PORT 5: INT# 3281: HAMILTON RD. AT SR-161 EB
SEE SHEET 803

PORT 6: INT# 3118: BLENDON POND DR. / LITTLE TURTLE WAY AT DUBLIN GRANVILLE RD.
SEE SHEET 807

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- LH/ZX (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



Notes
Refer to 3335-E Dublin Granville Road Realignment and 3358-E Old Hamilton Rd. projects for any existing work shown on this sheet.

INTERSECTION 3210
REFER TO SHEET 283 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 626 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100012
PID NUMBER: 99733

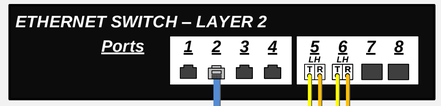
INT# 3210: DUBLIN GRANVILLE RD. AT HAMILTON RD. W.
COMMUNICATIONS DIAGRAM

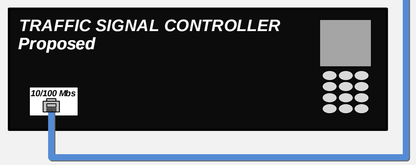
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

805
915

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TRAFFIC SIGNAL CABINET ASSEMBLY

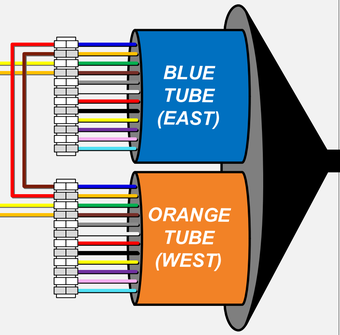




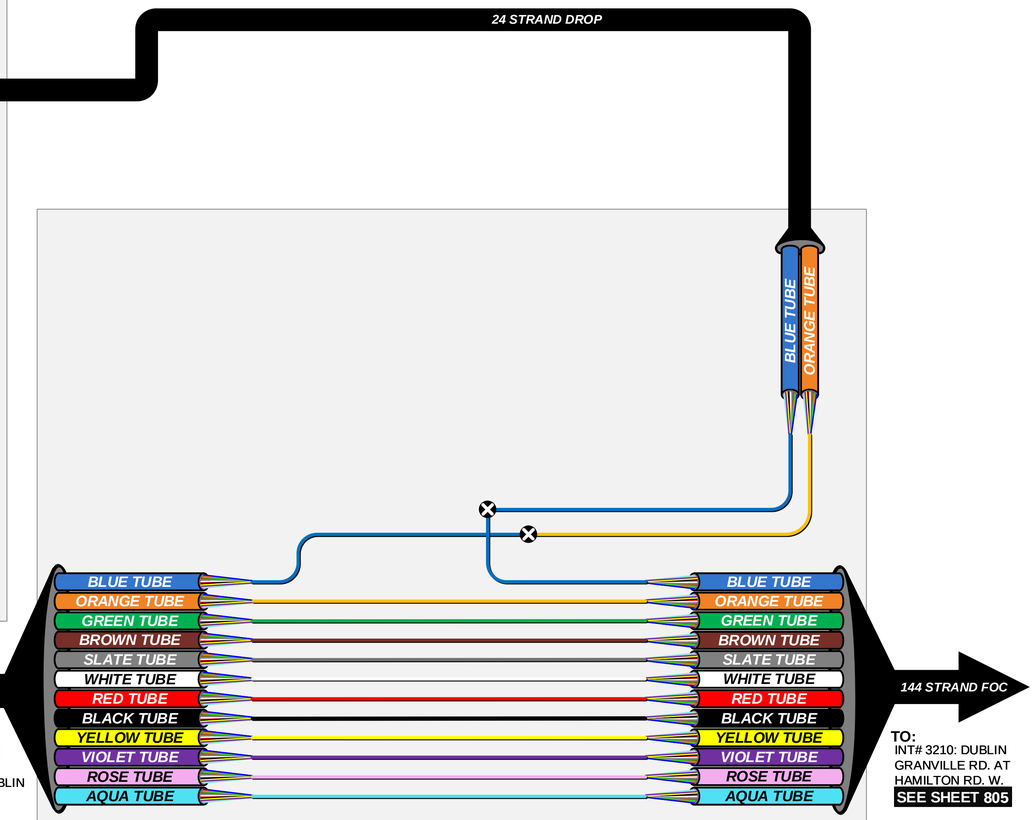
ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 3210: DUBLIN GRANVILLE RD. AT HAMILTON RD. W.
SEE SHEET 805

PORT 6: INT# 3118: BLENDON POND DR. / LITTLE TURTLE WAY AT DUBLIN GRANVILLE RD.
SEE SHEET 807



PATCH PANEL ENCLOSURE – 24 TERMINATION



TO:
INT# 3118: BLENDON POND DR. / LITTLE TURTLE WAY AT DUBLIN GRANVILLE RD.
SEE SHEET 807

TO:
INT# 3210: DUBLIN GRANVILLE RD. AT HAMILTON RD. W.
SEE SHEET 805

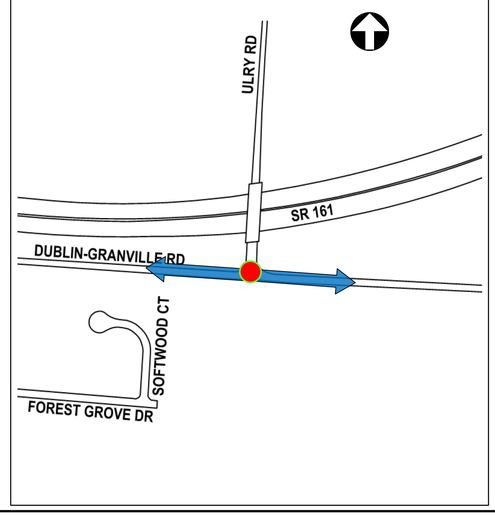
3 Cable Entries
24 Fusion Splices
11 Buffer Tubes Passed Through Unspliced

CLAMSHELL, 288 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- LH/ZX (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 3216

REFER TO SHEET 281 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 626 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100012
PID NUMBER: 99733

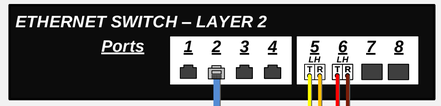
INT# 3216: DUBLIN GRANVILLE RD. AT ULRY RD.
COMMUNICATIONS DIAGRAM

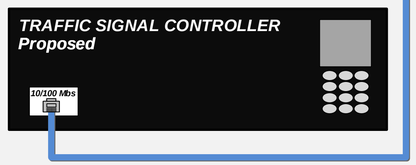
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

806
915

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TRAFFIC SIGNAL CABINET ASSEMBLY

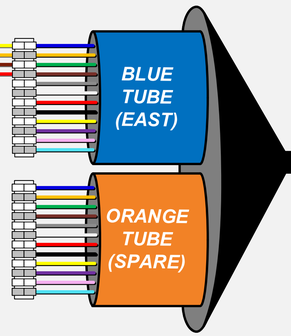


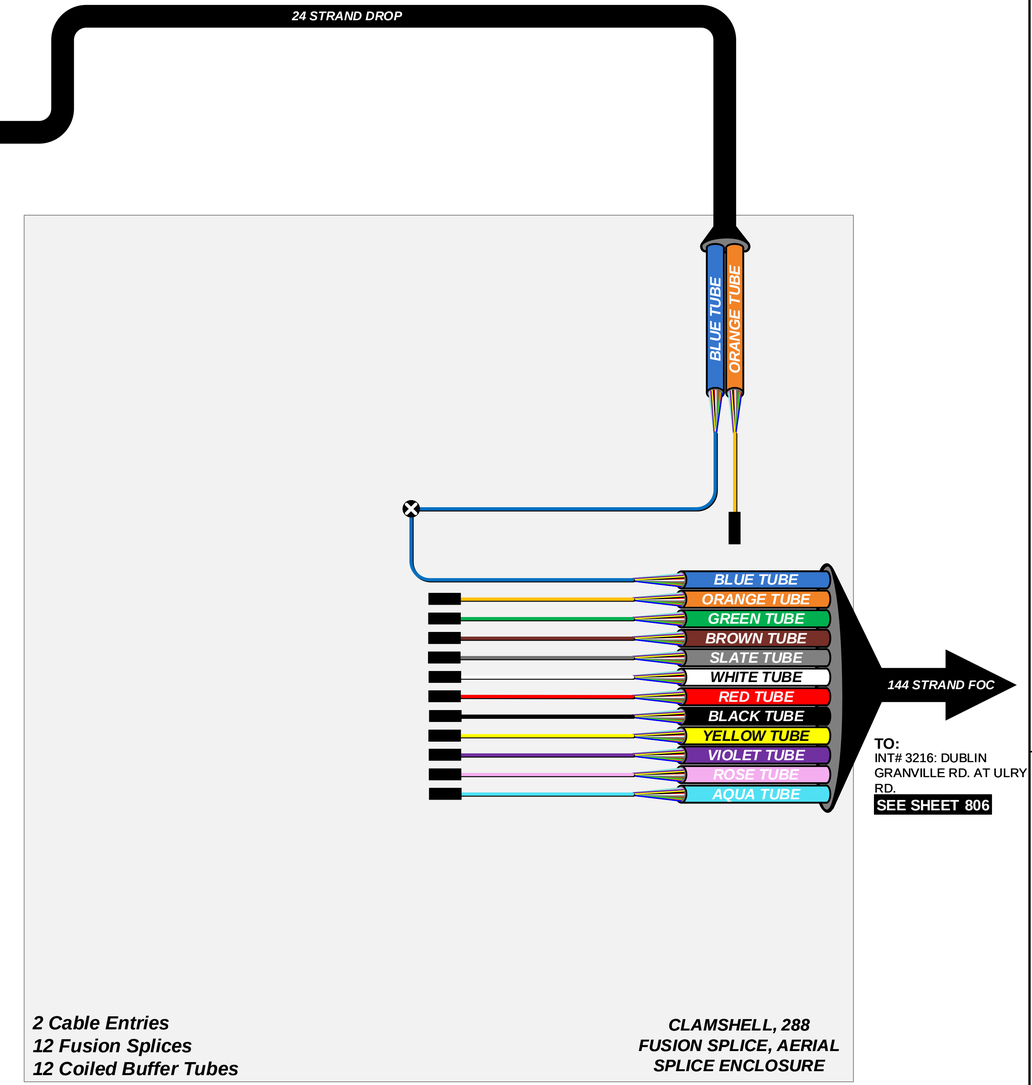


ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 3210: DUBLIN GRANVILLE RD. AT HAMILTON RD. W.
SEE SHEET 805

PORT 6: INT# 3216: DUBLIN GRANVILLE RD. AT ULRY RD.
SEE SHEET 806





2 Cable Entries
12 Fusion Splices
12 Coiled Buffer Tubes

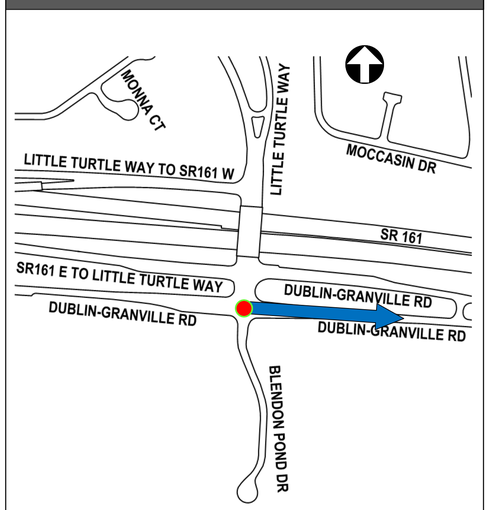
CLAMSHELL, 288 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

PATCH PANEL ENCLOSURE – 24 TERMINATION

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- LH/ZX (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 3118

REFER TO SHEET 279 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 626 FOR COMM OVERVIEW DETAILS

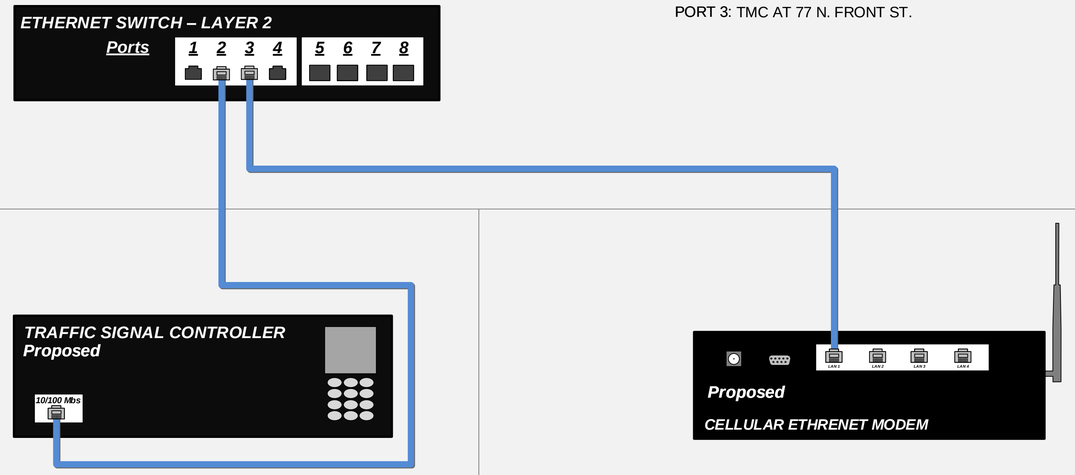
CIP: 540007 - 100012
PID NUMBER: 99733

INT# 3118: BLENDON POND DR. / LITTLE TURTLE WAY AT DUBLIN GRANVILLE RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

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TRAFFIC SIGNAL CABINET ASSEMBLY



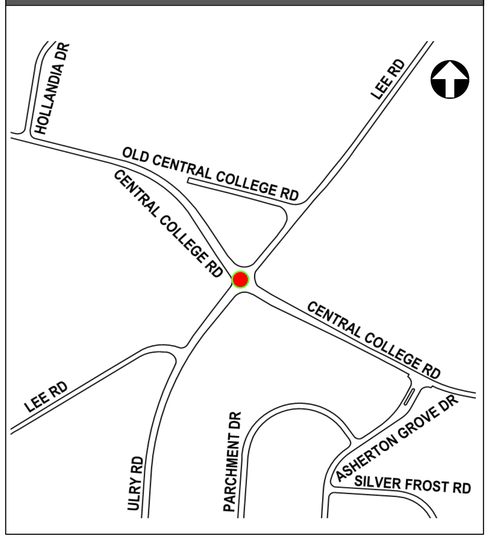
ETHERNET SWITCH PORT DESTINATION

PORT 3: TMC AT 77 N. FRONT ST.

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- *LH/ZX* GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 3300

REFER TO SHEET 287 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 626 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100012
PID NUMBER: 99733

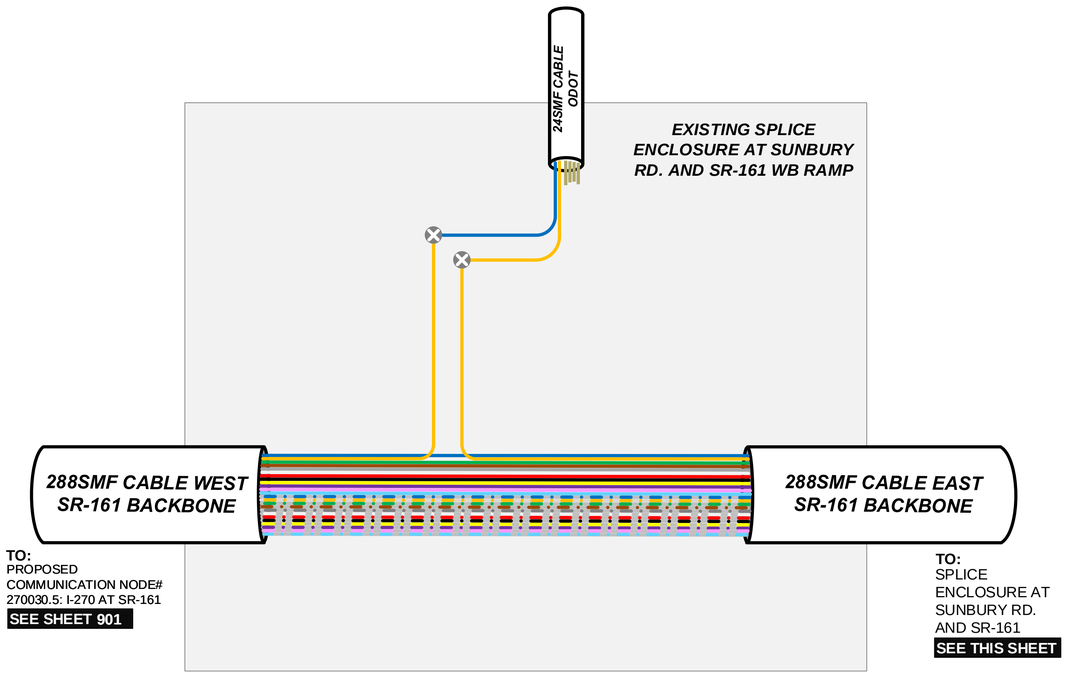
INT# 3300: CENTRAL COLLEGE RD. AT ULRY RD.
COMMUNICATIONS DIAGRAM

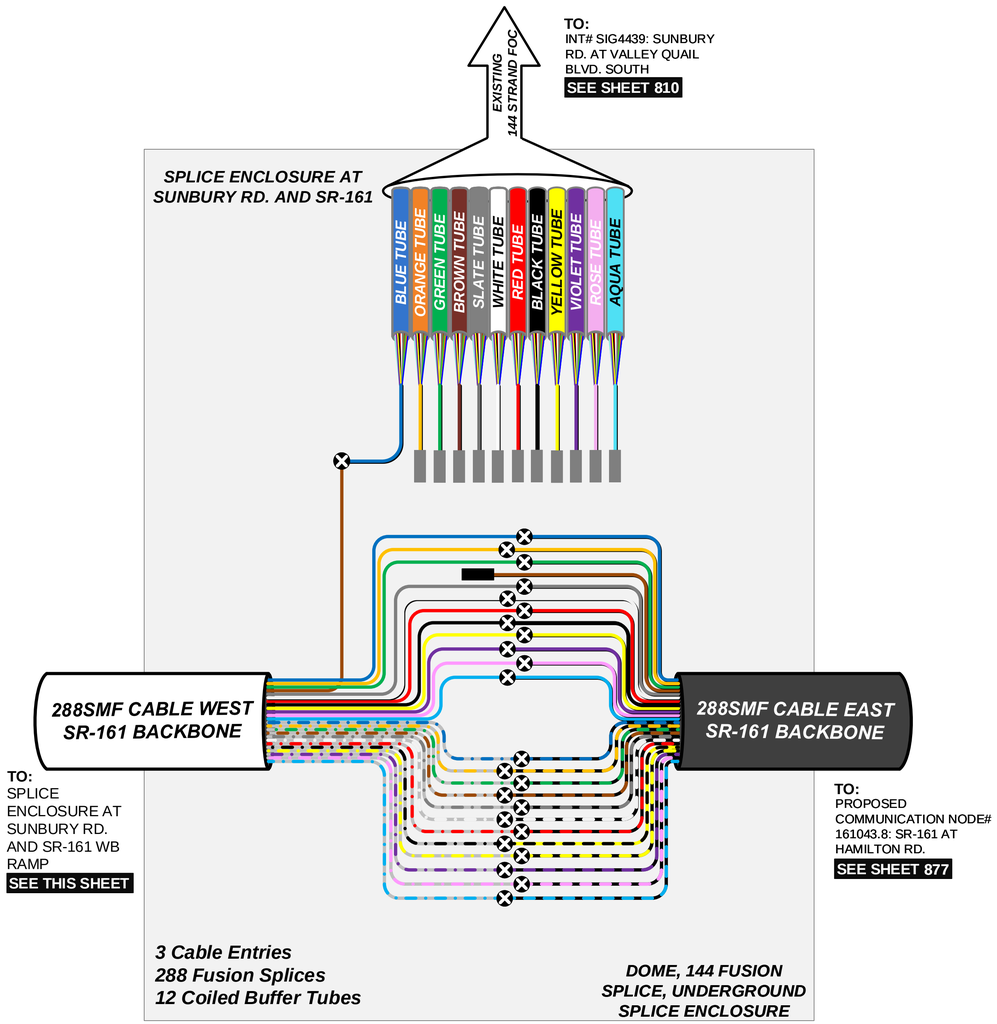
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

808
915

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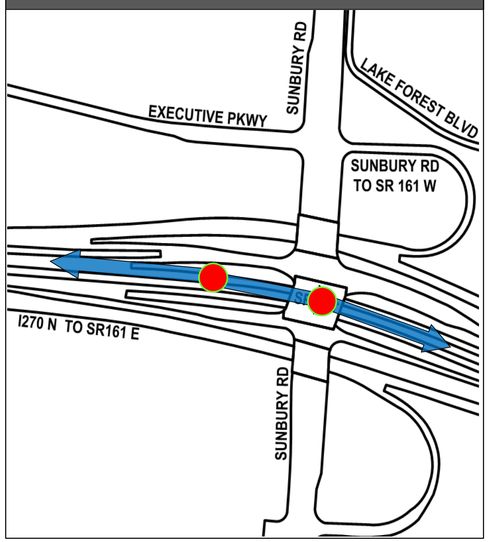




LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- LH/ZX — GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



SPLICE ENCLOSURE - SR-161 AT SUNBURY RD

REFER TO SHEET 298 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 626 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100012
PID NUMBER: 99733

SE_161_Sunbury: SR-161 AT SUNBURY RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

TRAFFIC SIGNAL CABINET ASSEMBLY

EXISTING ETHERNET SWITCH – LAYER 2

1 2 3 4 5 6 7 8

LH T R LH T R

TRAFFIC SIGNAL CONTROLLER
Ex. Econolite ASC/3-2100

Ethernet Module
10/100 Mbs

EXISTING PATCH PANEL ENCLOSURE – 24 TERMINATION

REVISED ETHERNET SWITCH PORT DESTINATION

PORT 5: PROPOSED COMMUNICATION NODE# 270030.5: I-270 AT SR-161
(Revised) SEE SHEET 899

PORT 6: PROPOSED COMMUNICATION NODE# 270030.5: I-270 AT SR-161
(Revised) SEE SHEET 899

BLUE TUBE (SOUTH)

ORANGE TUBE (SPARE)

EXISTING 24 STRAND DROP

BLUE TUBE

ORANGE TUBE

EXISTING SPLICE ENCLOSURE

BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE
RED TUBE
BLACK TUBE
YELLOW TUBE
VIOLET TUBE
ROSE TUBE
AQUA TUBE

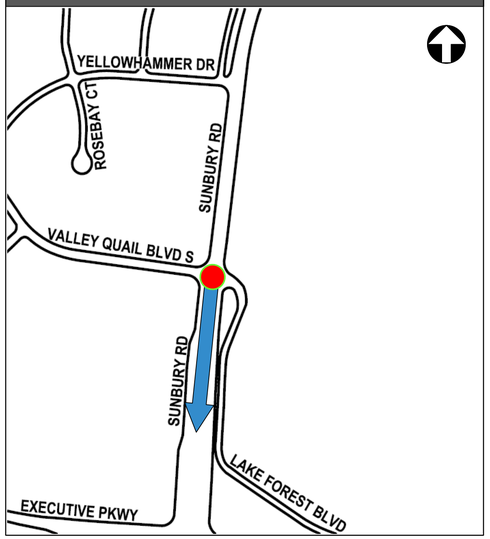
EXISTING 144 STRAND FOC

TO:
SE_161_Sunbury: SR-161 AT SUNBURY RD.
SEE SHEET 809

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- *LH/ZX* (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION SIG4439
REFER TO SHEET 626 FOR COMM OVERVIEW DETAILS

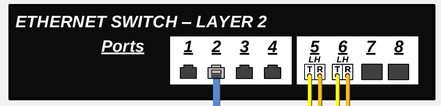
CIP: 540007 - 100012
PID NUMBER: 99733

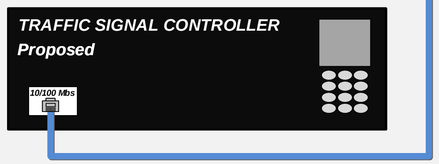
INT# SIG4439: SUNBURY RD. AT VALLEY QUAIL BLVD. SOUTH
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

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TRAFFIC SIGNAL CABINET ASSEMBLY

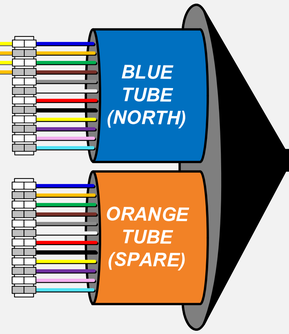




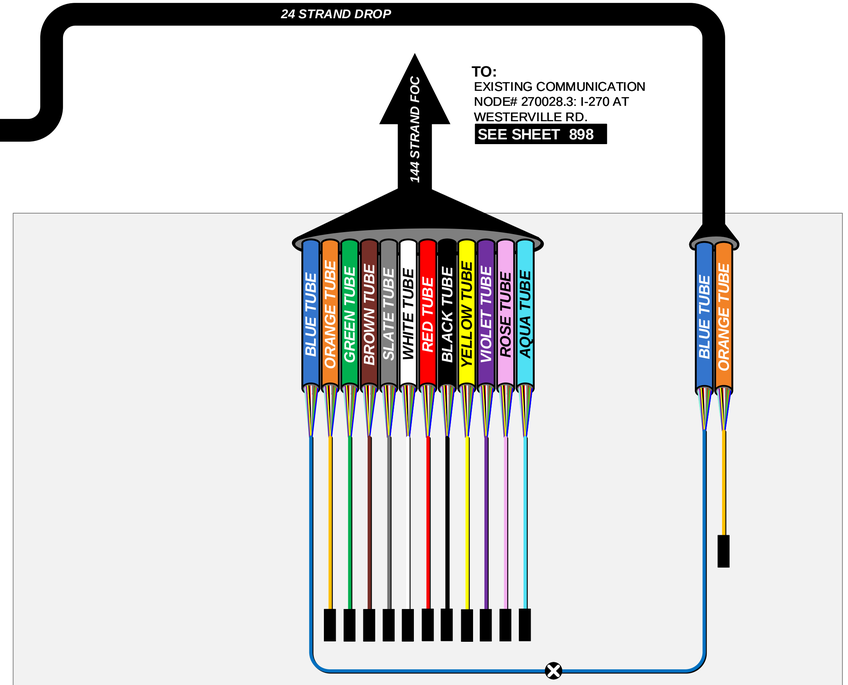
ETHERNET SWITCH PORT DESTINATION

PORT 5: EXISTING COMMUNICATION NODE# 270028.3: I-270 AT WESTERVILLE RD.
SEE SHEET 896

PORT 6: EXISTING COMMUNICATION NODE# 270028.3: I-270 AT WESTERVILLE RD.
SEE SHEET 896



PATCH PANEL ENCLOSURE – 24 TERMINATION



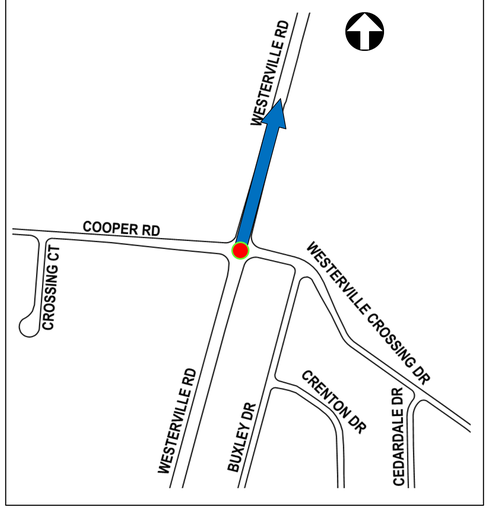
2 Cable Entries
12 Fusion Splices
12 Coiled Buffer Tubes

CLAMSHELL, 288 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- LH/ZX (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 3242

REFER TO SHEET 257 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 626 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100012
PID NUMBER: 99733

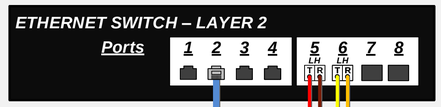
INT# 3242: COOPER RD. AT WESTERVILLE RD.
COMMUNICATIONS DIAGRAM

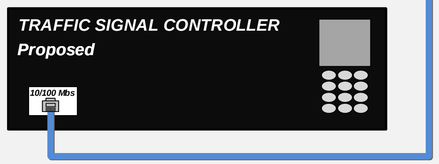
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

811
915

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TRAFFIC SIGNAL CABINET ASSEMBLY

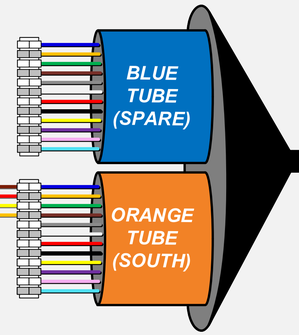


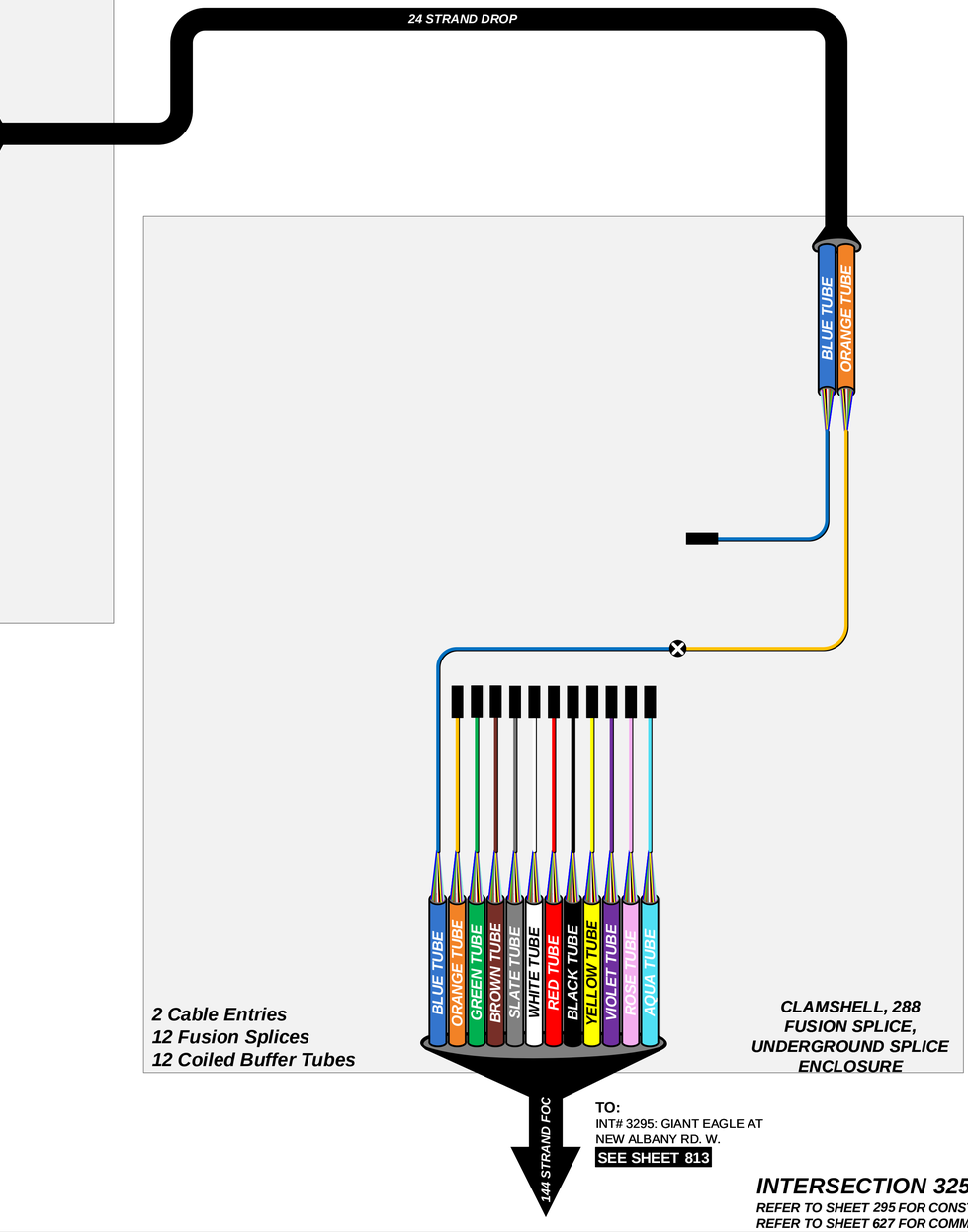


ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 3295: GIANT EAGLE AT NEW ALBANY RD. W.
SEE SHEET 813

PORT 6: INT# 3253: NEW ALBANY RD. AT NEW ALBANY RD. E.
SEE SHEET 814





2 Cable Entries
12 Fusion Splices
12 Coiled Buffer Tubes

CLAMSHELL, 288 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE

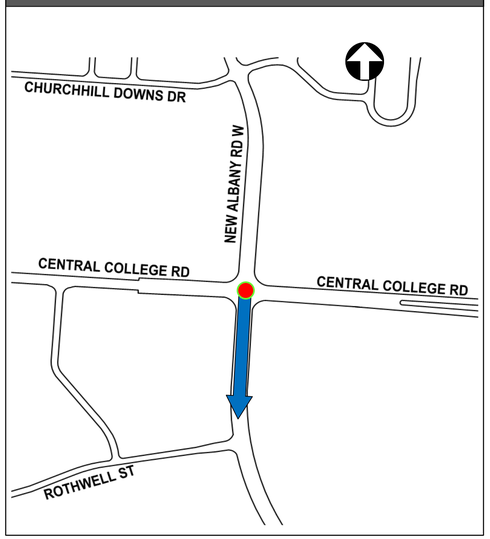
TO:
INT# 3295: GIANT EAGLE AT NEW ALBANY RD. W.
SEE SHEET 813

PATCH PANEL ENCLOSURE – 24 TERMINATION

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- *LH/ZX* GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 3252

REFER TO SHEET 295 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 627 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100012
PID NUMBER: 99733

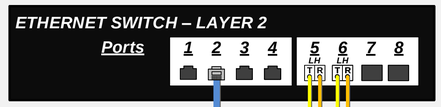
INT# 3252: CENTRAL COLLEGE RD. AT NEW ALBANY RD. W.
COMMUNICATIONS DIAGRAM

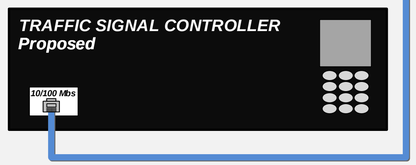
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

812
915

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TRAFFIC SIGNAL CABINET ASSEMBLY

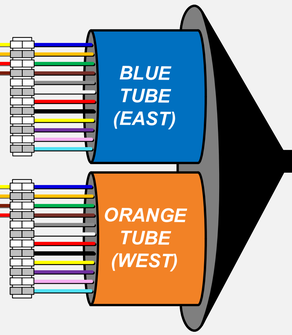


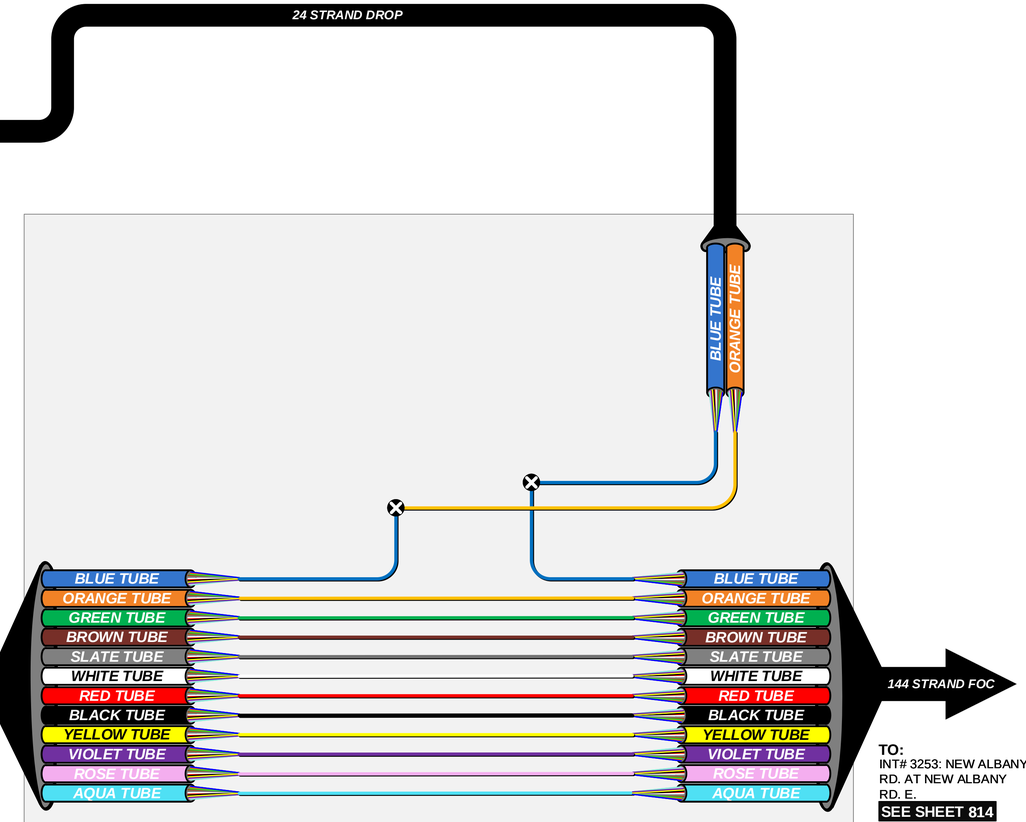


ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 3294: NEW ALBANY RD. E. AT WALTON PKWY.
SEE SHEET 815

PORT 6: INT# 3252: CENTRAL COLLEGE RD. AT NEW ALBANY RD. W.
SEE SHEET 812





TO:
INT# 3252: CENTRAL COLLEGE RD. AT NEW ALBANY RD. W.
SEE SHEET 812

TO:
INT# 3253: NEW ALBANY RD. AT NEW ALBANY RD. E.
SEE SHEET 814

3 Cable Entries
24 Fusion Splices
11 Buffer Tubes Passed Through Unspliced

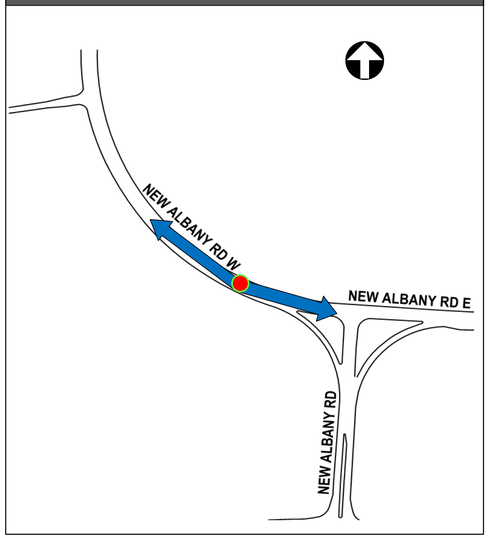
CLAMSHELL, 288 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE

PATCH PANEL ENCLOSURE – 24 TERMINATION

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- LH/ZX T R — GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 3295
REFER TO SHEET 293 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 627 FOR COMM OVERVIEW DETAILS

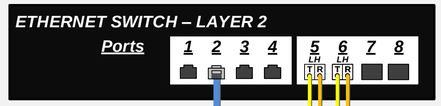
CIP: 540007 - 100012
PID NUMBER: 99733

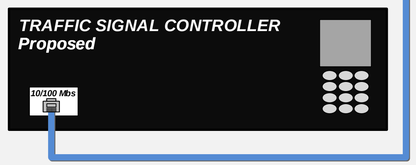
INT# 3295: GIANT EAGLE AT NEW ALBANY RD. W.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

J:\Jobs\63721 CTSS Phase E\TECHPROD\Communications\Intersection Splicing Details\805-816.vsd - 3295 layout ~ last saved by: skoganti 9/13/2018 5:25:15 PM ~ printed: 9/13/2018 5:25:15 PM

TRAFFIC SIGNAL CABINET ASSEMBLY

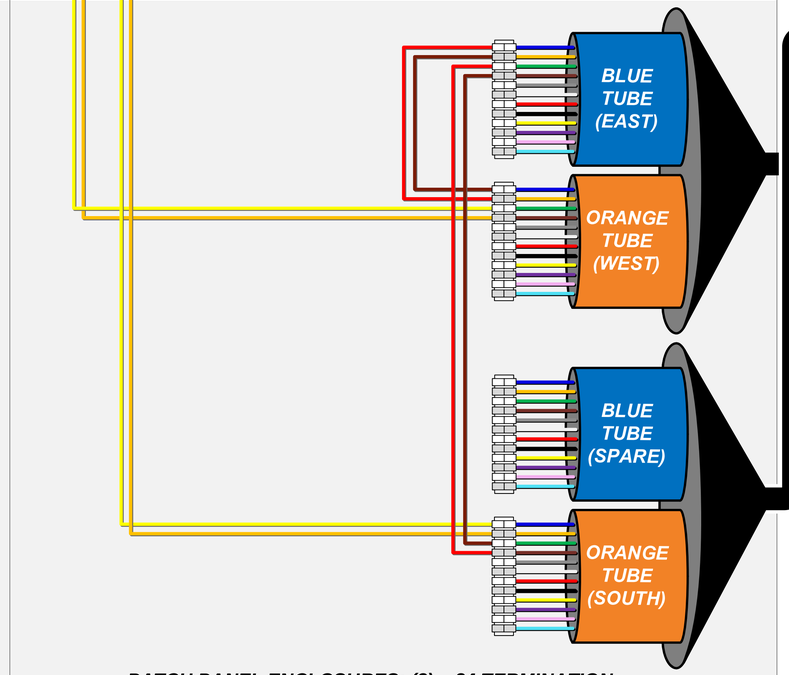




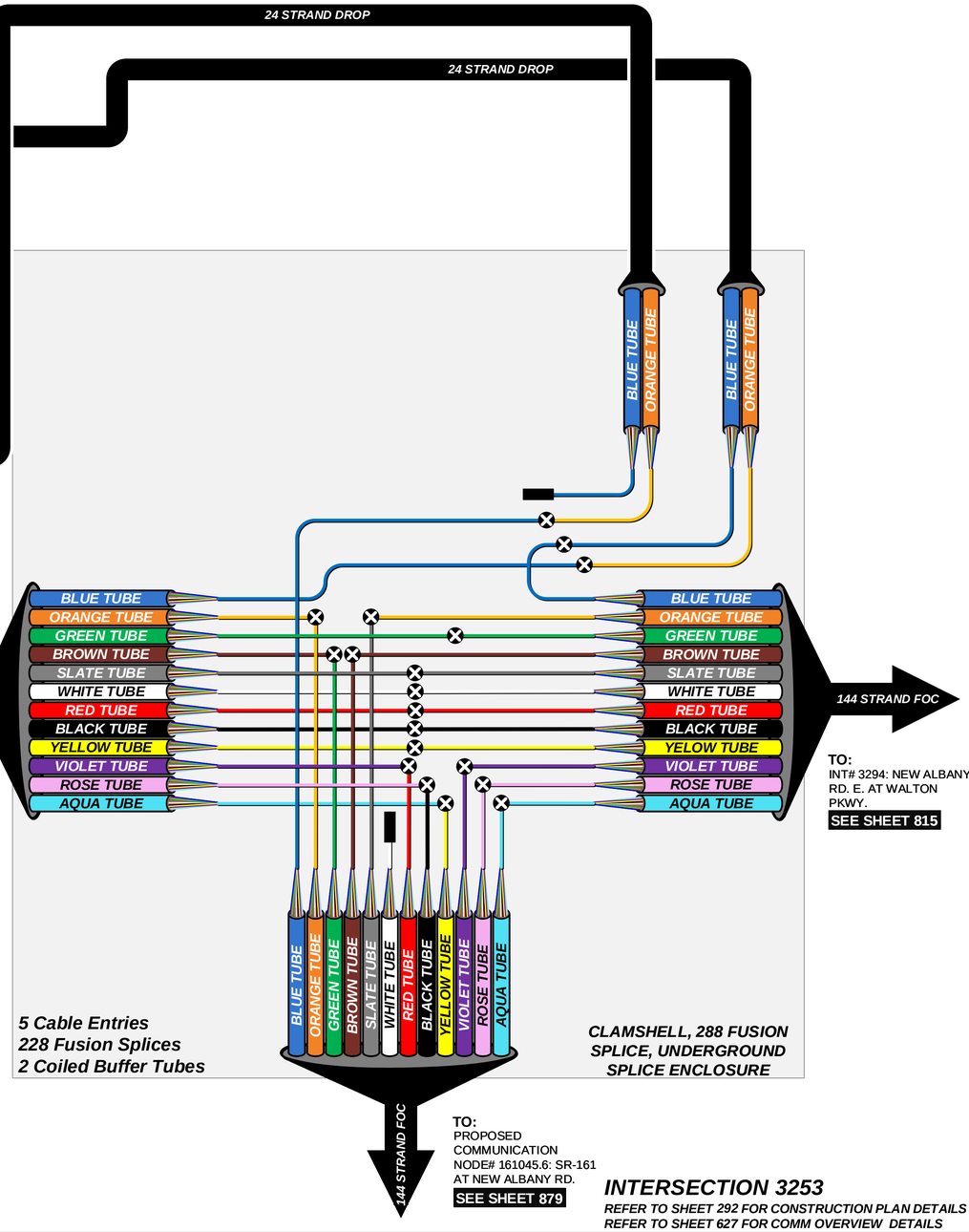
ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 3252: CENTRAL COLLEGE RD. AT NEW ALBANY RD. W.
SEE SHEET 812

PORT 6: PROPOSED COMMUNICATION NODE# 161045.6: SR-161 AT NEW ALBANY RD.
SEE SHEET 878



PATCH PANEL ENCLOSURES: (2) – 24 TERMINATION



TO:
INT# 3295: GIANT EAGLE AT NEW ALBANY RD. W.
SEE SHEET 813

TO:
INT# 3294: NEW ALBANY RD. E. AT WALTON PKWY.
SEE SHEET 815

5 Cable Entries
228 Fusion Splices
2 Coiled Buffer Tubes

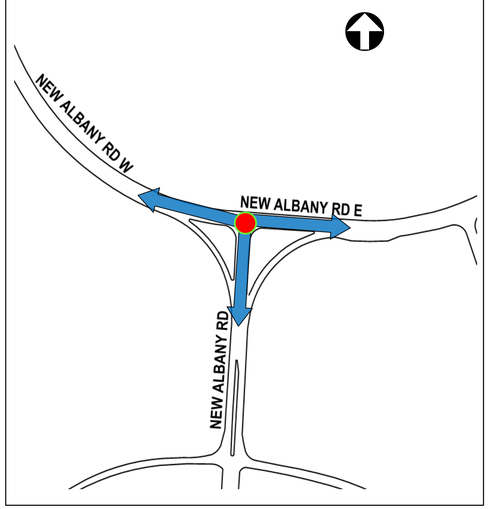
CLAMSHELL, 288 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE

TO:
PROPOSED COMMUNICATION NODE# 161045.6: SR-161 AT NEW ALBANY RD.
SEE SHEET 879

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- LH/ZX — GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 3253

REFER TO SHEET 292 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 627 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100012
PID NUMBER: 99733

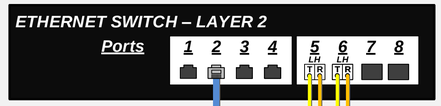
INT# 3253: NEW ALBANY RD. AT NEW ALBANY RD. E.
COMMUNICATIONS DIAGRAM

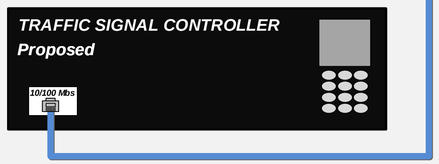
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

814
915

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TRAFFIC SIGNAL CABINET ASSEMBLY

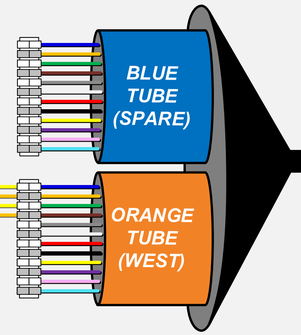


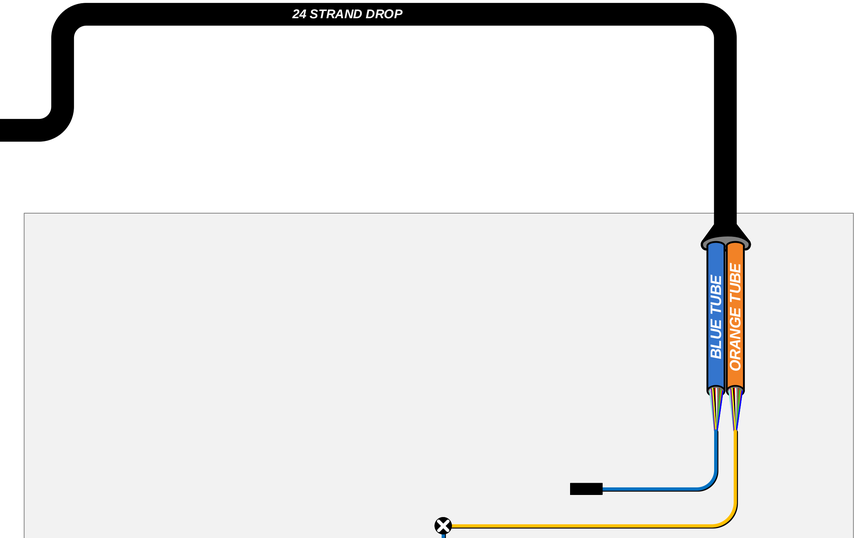


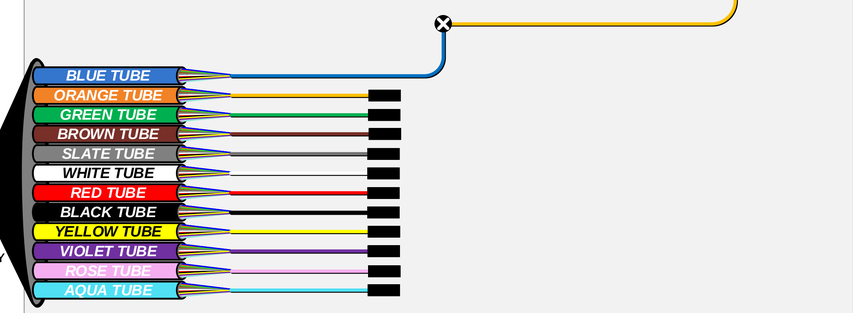
ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 3295: GIANT EAGLE AT NEW ALBANY RD. W.
SEE SHEET 813

PORT 6: INT# 3257: NEW ALBANY RD. AT SR-161 EB
SEE SHEET 817







144 STRAND FOC

TO:
INT# 3253: NEW ALBANY RD. AT NEW ALBANY RD. E.
SEE SHEET 814

2 Cable Entries
12 Fusion Splices
12 Coiled Buffer Tubes

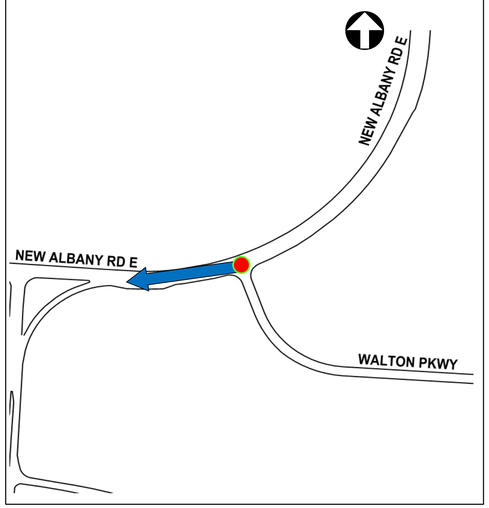
CLAMSHELL, 288 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE

PATCH PANEL ENCLOSURE – 24 TERMINATION

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- LH/ZX (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 3294

REFER TO SHEET 291 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 627 FOR COMM OVERVIEW DETAILS

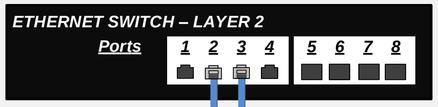
CIP: 540007 - 100012
PID NUMBER: 99733

INT# 3294: NEW ALBANY RD. E. AT WALTON PKWY.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

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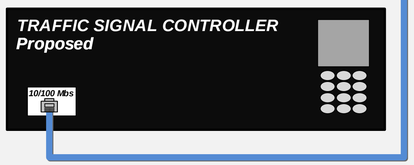
TRAFFIC SIGNAL CABINET ASSEMBLY



ETHERNET SWITCH PORT DESTINATION

PORT 3: PROPOSED COMMUNICATION NODE# 161045.6: SR-161 AT NEW ALBANY RD.
SEE SHEET 878

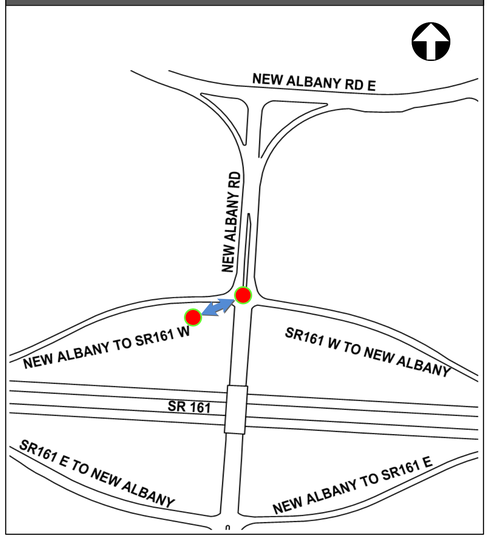
TO:
PROPOSED
COMMUNICATION NODE#
161045.6: SR-161 AT NEW
ALBANY RD.
SEE SHEET 879



LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- *LH/ZX* (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 3258
REFER TO SHEET 289 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 627 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100012
PID NUMBER: 99733

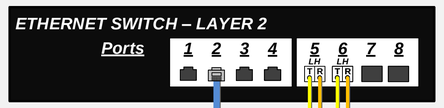
INT# 3258: NEW ALBANY RD. AT SR-161 WB
COMMUNICATIONS DIAGRAM

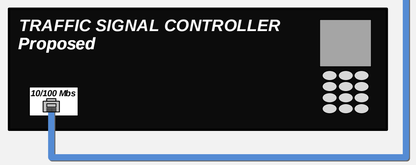
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

816
915

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TRAFFIC SIGNAL CABINET ASSEMBLY

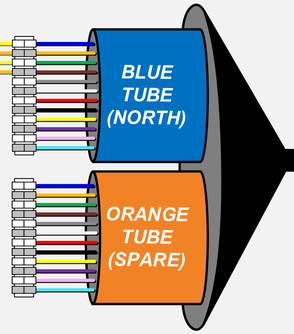




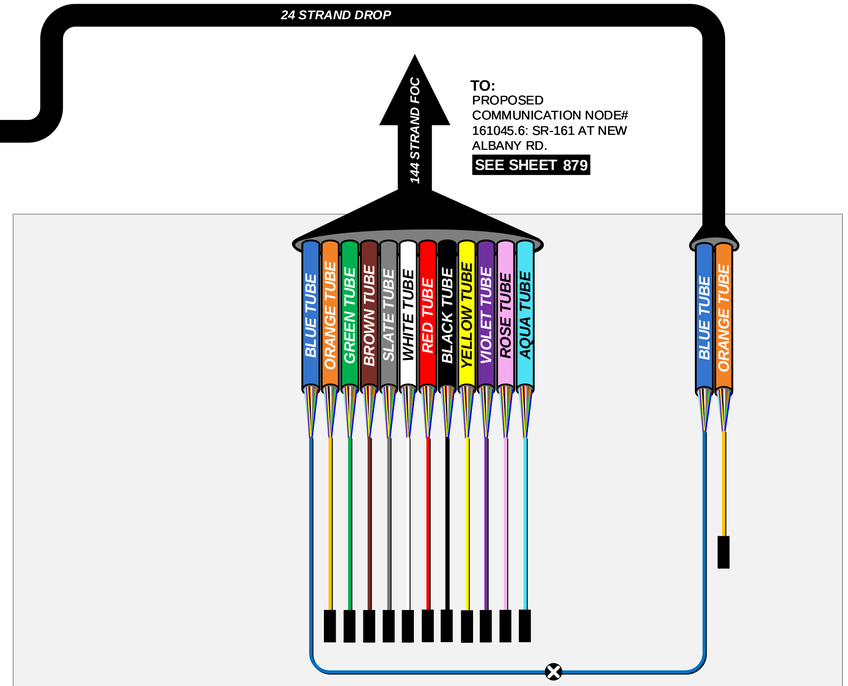
ETHERNET SWITCH PORT DESTINATION

PORT 5: PROPOSED COMMUNICATION NODE# 161045.6: SR-161 AT NEW ALBANY RD.
SEE SHEET 878

PORT 6: INT# 3294: NEW ALBANY RD. E. AT WALTON PKWY.
SEE SHEET 815



PATCH PANEL ENCLOSURE – 24 TERMINATION



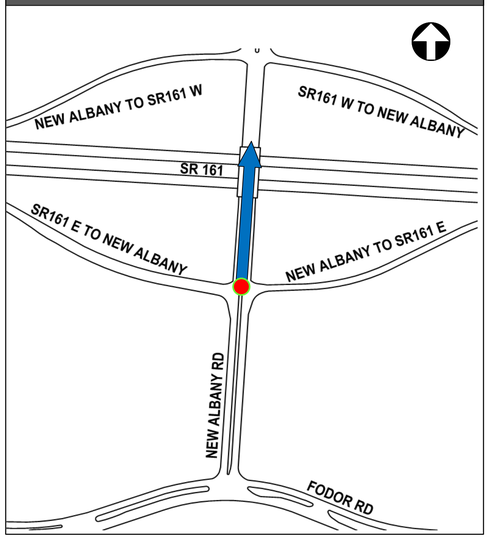
2 Cable Entries
12 Fusion Splices
12 Coiled Buffer Tubes

DOME, 144 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- LH/ZX (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 3257

REFER TO SHEET 288 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 627 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100012
PID NUMBER: 99733

INT# 3257: NEW ALBANY RD. AT SR-161 EB
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

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915

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TRAFFIC SIGNAL CABINET ASSEMBLY

ETHERNET SWITCH PORT DESTINATION

PORT 1: INT# 2182: HIGH ST. AT RATHMELL RD.
SEE SHEET 819

ETHERNET SWITCH – LAYER 2

Ports 1 2 3 4 5 6 7 8

TRAFFIC SIGNAL CONTROLLER
Ex. Econolite ASC/3-2100

Ethernet Module
10/100 Mbs

WIRELESS LINK TO
INT# 2182: HIGH ST. AT
RATHMELL RD.
SEE SHEET 819

COMPOSITE CCTV CABLE

PROPOSED CCTV

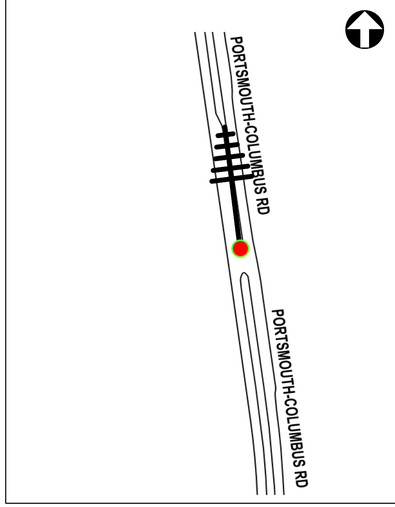
CCTV FIELD BOX

VIDEO/PTZ IP DATA
CCTV/HEATER POWER
24VAC
COM
24VAC
10/100 Mbs
ANALOG VIDEO

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- *LH/ZX* (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 2070
REFER TO SHEET 214 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 628 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100012
PID NUMBER: 99733

INT# 2070: HIGH ST. AT SCIOTO DOWNS
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

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915

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TRAFFIC SIGNAL CABINET ASSEMBLY

EXISTING ETHERNET SWITCH – LAYER 2

Ports 1 2 3 4 5 6 7 8 (5 LH T/R, 6 LH T/R)

TERMINAL PORT SERVER

10/100 Mbs RS232 #1 RS232 #2

TRAFFIC SIGNAL CONTROLLER
Ex. Econolite ASC/2S-2100

#1232

ETHERNET SWITCH PORT DESTINATION

PORT 2: INT# 2070: HIGH ST. AT SCIOTO DOWNS
SEE SHEET 818

PORT 5: EXISTING CONNECTION TO INT# SIG4255: PARSONS AVE. AT RATHMELL RD.

PORT 6: EXISTING CONNECTION TO INT# SIG4220: LOCKBOURNE RD. AT RATHMELL RD.

EXISTING CCTV CABINET

EXISTING CCTV FIELD BOX

VIDEO/PTZ IP DATA
CCTV/HEATER POWER
10/100 Mbs
ANALOG VIDEO

EXISTING COMPOSITE CCTV CABLE

EXISTING CCTV

BLUE TUBE (EAST)

ORANGE TUBE (SPARE)

EXISTING 24 STRAND DROP

WIRELESS LINK TO INT# 2070: HIGH ST. AT SCIOTO DOWNS
SEE SHEET 818

EXISTING PATCH PANEL ENCLOSURE – 24 TERMINATION

BLUE TUBE
ORANGE TUBE

1-6
7-12
1-6
7-12

24SMF CABLE ODOT

BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE
RED TUBE
BLACK TUBE
YELLOW TUBE
VIOLET TUBE
ROSE TUBE
AQUA TUBE

EXISTING 144 STRAND FOC

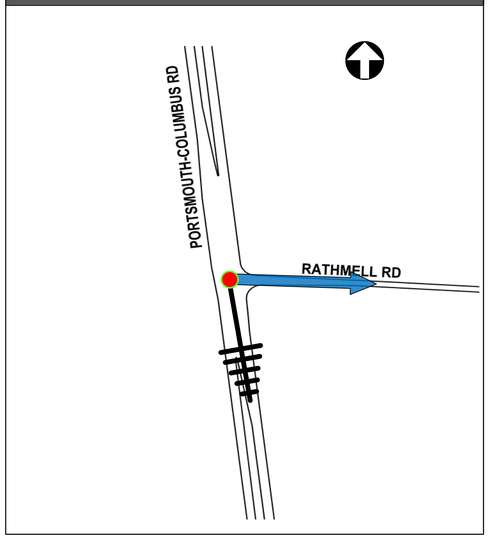
TO:
EXISTING CONNECTION TO INT# SIG4255: PARSONS AVE. AT RATHMELL RD.

EXISTING SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 2182

REFER TO SHEET 215 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 628 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100012
PID NUMBER: 99733

INT# 2182: HIGH ST. AT RATHMELL RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

819
915

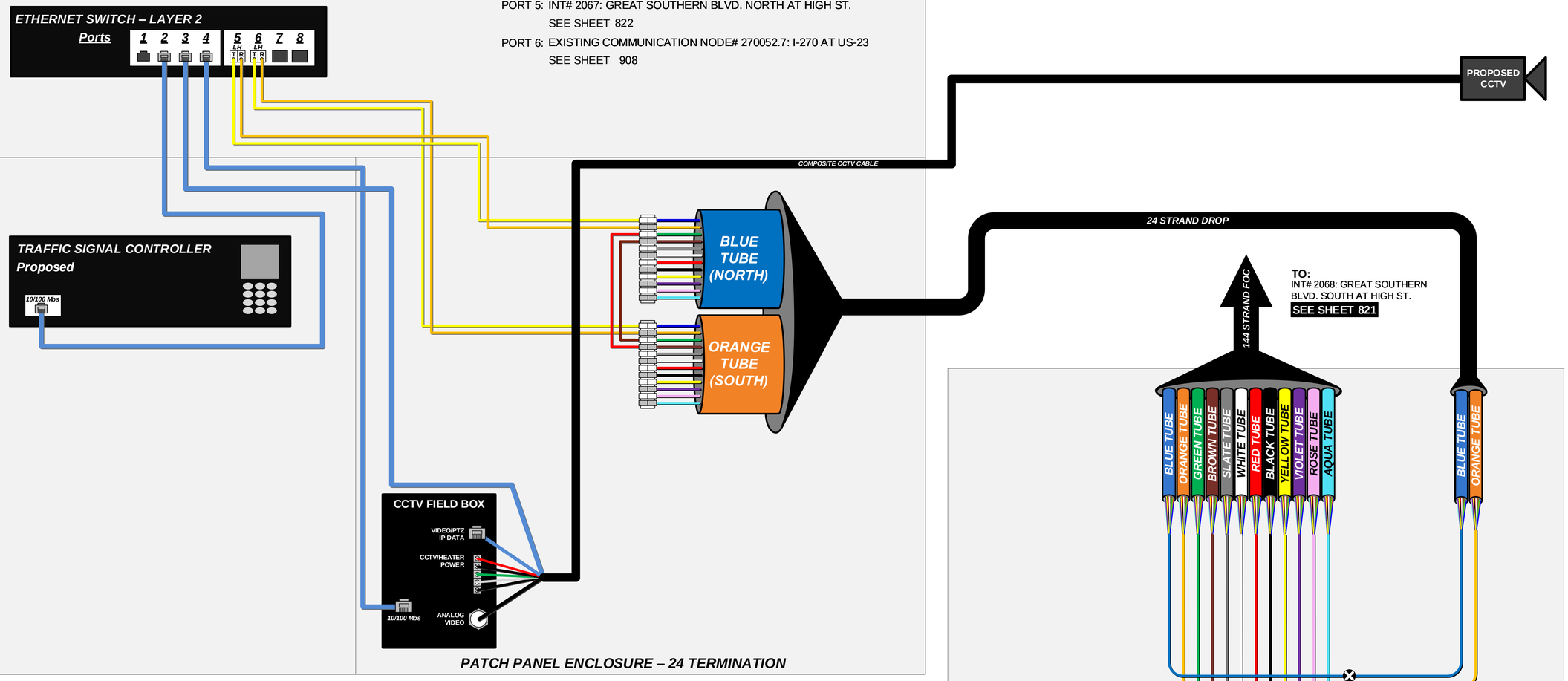
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TRAFFIC SIGNAL CABINET ASSEMBLY

ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 2067: GREAT SOUTHERN BLVD. NORTH AT HIGH ST.
SEE SHEET 822

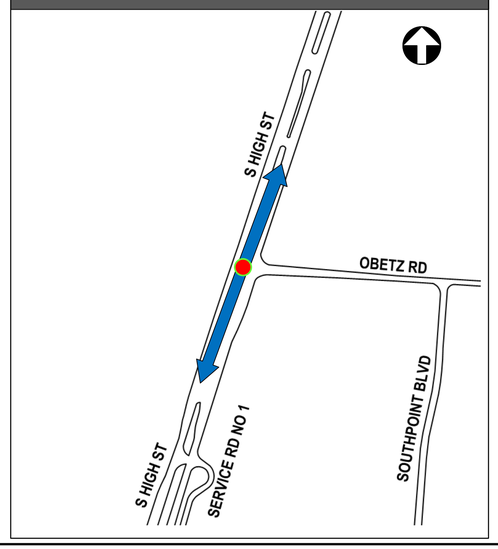
PORT 6: EXISTING COMMUNICATION NODE# 270052.7: I-270 AT US-23
SEE SHEET 908



LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- LH/ZX T R GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 2069

REFER TO SHEET 220 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 628 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100012
PID NUMBER: 99733

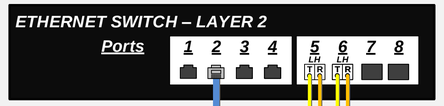
INT# 2069: HIGH ST. AT OBETZ RD.
COMMUNICATIONS DIAGRAM

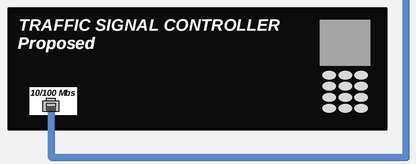
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

820
915

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TRAFFIC SIGNAL CABINET ASSEMBLY

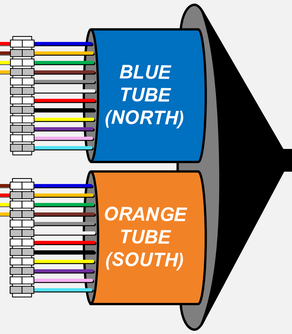




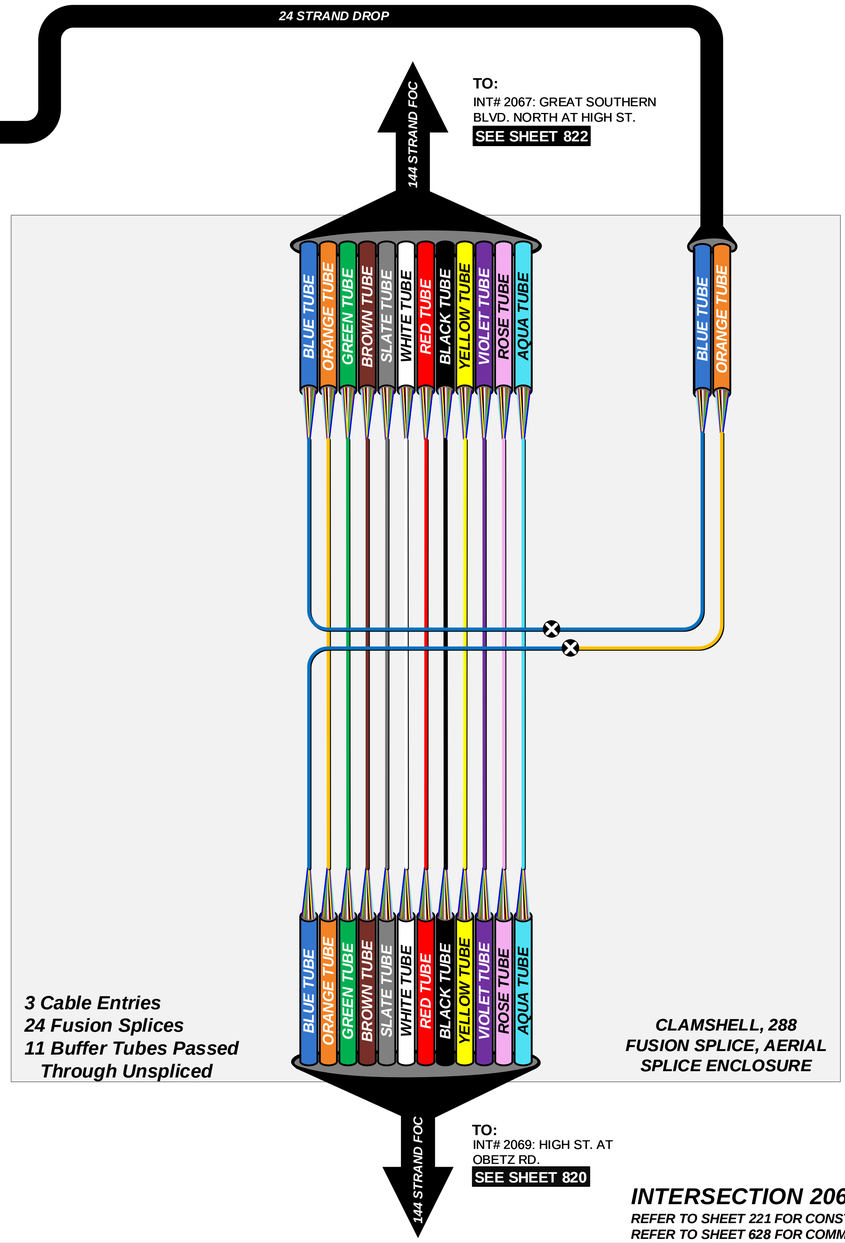
ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 2206: HIGH ST. AT HIGHVIEW BLVD.
SEE SHEET 823

PORT 6: EXISTING COMMUNICATION NODE# 270052.7: I-270 AT US-23
SEE SHEET 908



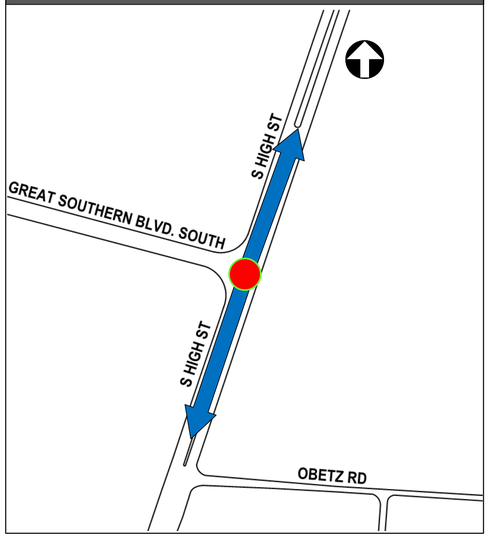
PATCH PANEL ENCLOSURE – 24 TERMINATION



LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- LH/ZX (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 2068

REFER TO SHEET 221 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 628 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100012
PID NUMBER: 99733

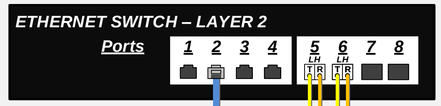
INT# 2068: GREAT SOUTHERN BLVD. SOUTH AT HIGH ST.
COMMUNICATIONS DIAGRAM

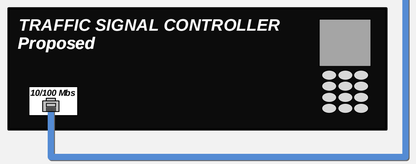
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

821
915

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TRAFFIC SIGNAL CABINET ASSEMBLY

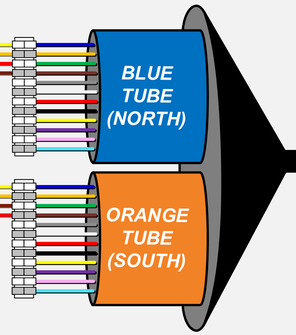




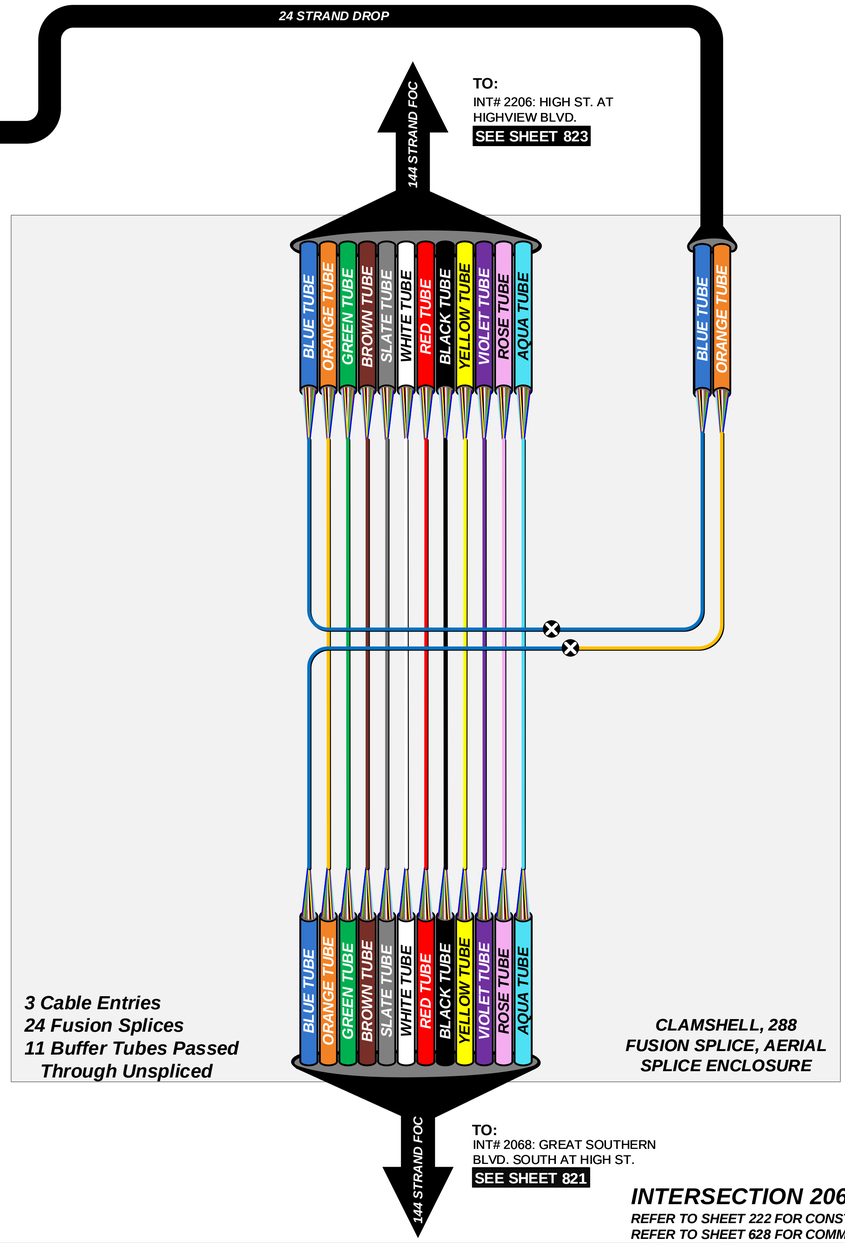
ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 2066: HIGH ST. AT WILLIAMS RD.
SEE SHEET 824

PORT 6: INT# 2069: HIGH ST. AT OBETZ RD.
SEE SHEET 820



PATCH PANEL ENCLOSURE – 24 TERMINATION



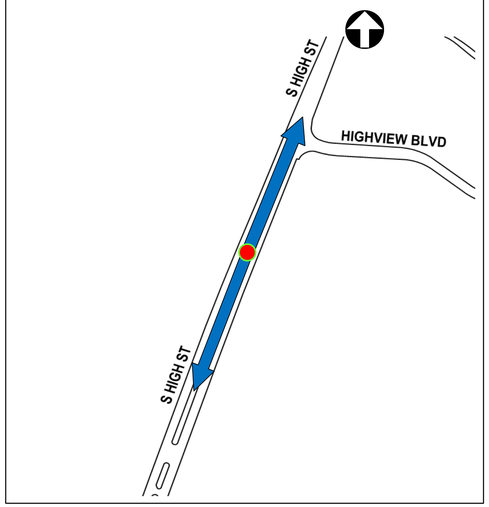
3 Cable Entries
24 Fusion Splices
11 Buffer Tubes Passed Through Unspliced

CLAMSHELL, 288 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- *LH/ZX* (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 2067

REFER TO SHEET 222 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 628 FOR COMM OVERVIEW DETAILS

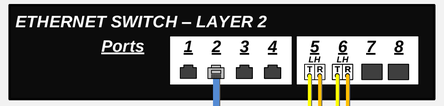
CIP: 540007 - 100012
PID NUMBER: 99733

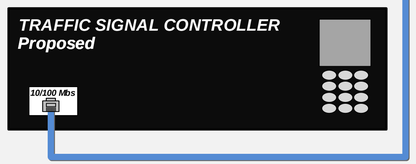
INT# 2067: GREAT SOUTHERN BLVD. NORTH AT HIGH ST.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

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TRAFFIC SIGNAL CABINET ASSEMBLY

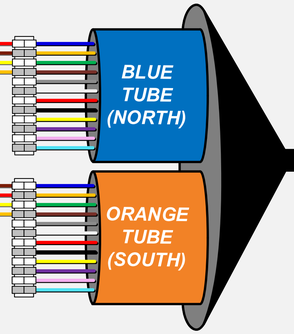




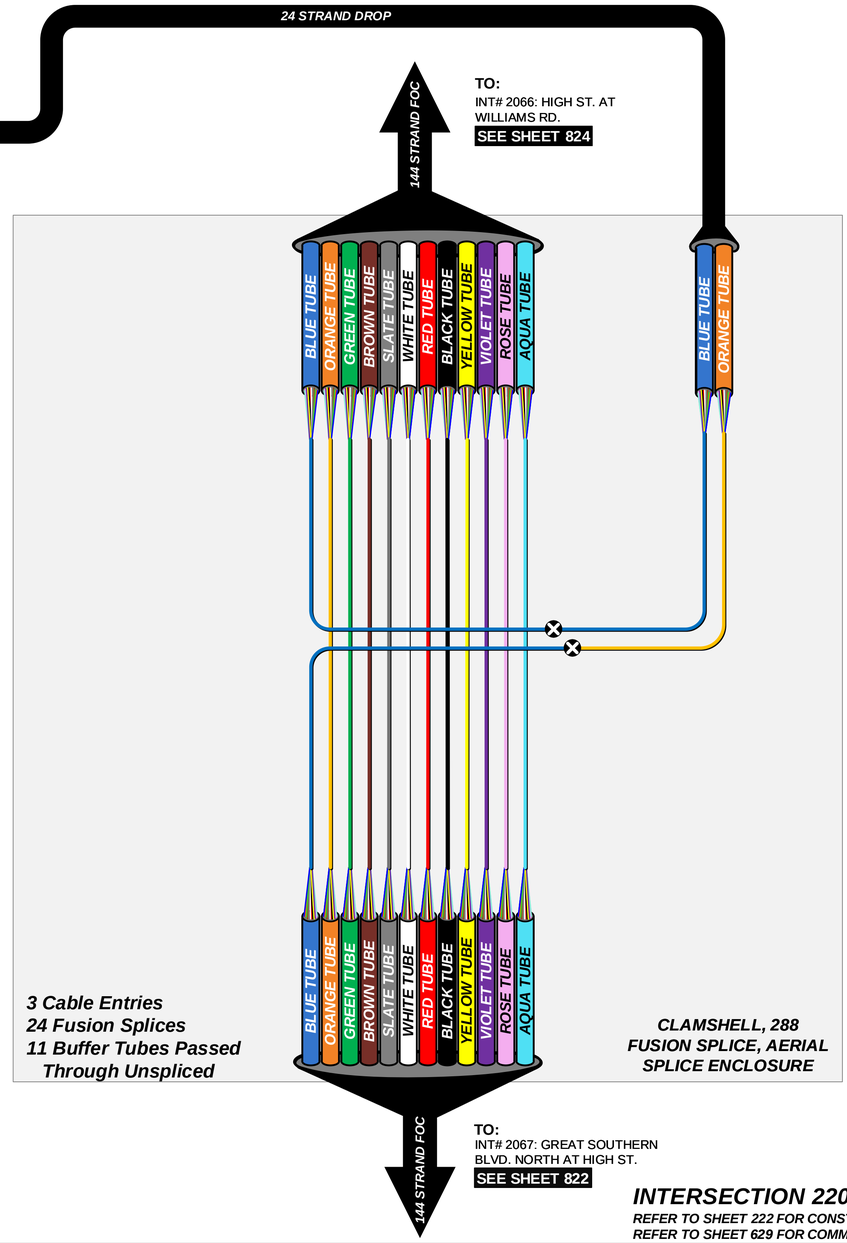
ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 2065: HIGH ST. AT SOUTHGATE DR.
SEE SHEET 825

PORT 6: INT# 2068: GREAT SOUTHERN BLVD. SOUTH AT HIGH ST.
SEE SHEET 821



PATCH PANEL ENCLOSURE – 24 TERMINATION



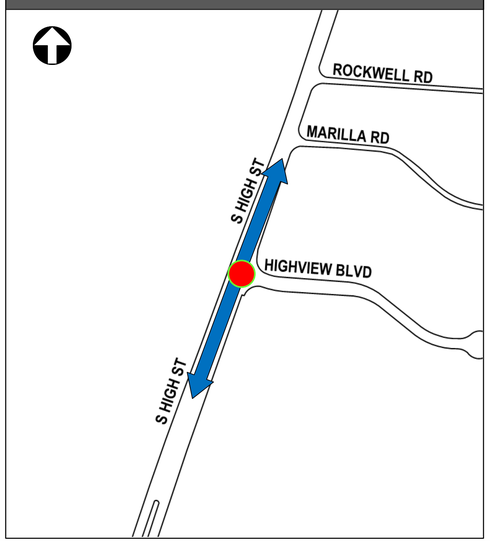
3 Cable Entries
24 Fusion Splices
11 Buffer Tubes Passed Through Unspliced

CLAMSHELL, 288 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
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- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- LH/ZX (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 2206

REFER TO SHEET 222 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 629 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100012
PID NUMBER: 99733

INT# 2206: HIGH ST. AT HIGHVIEW BLVD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

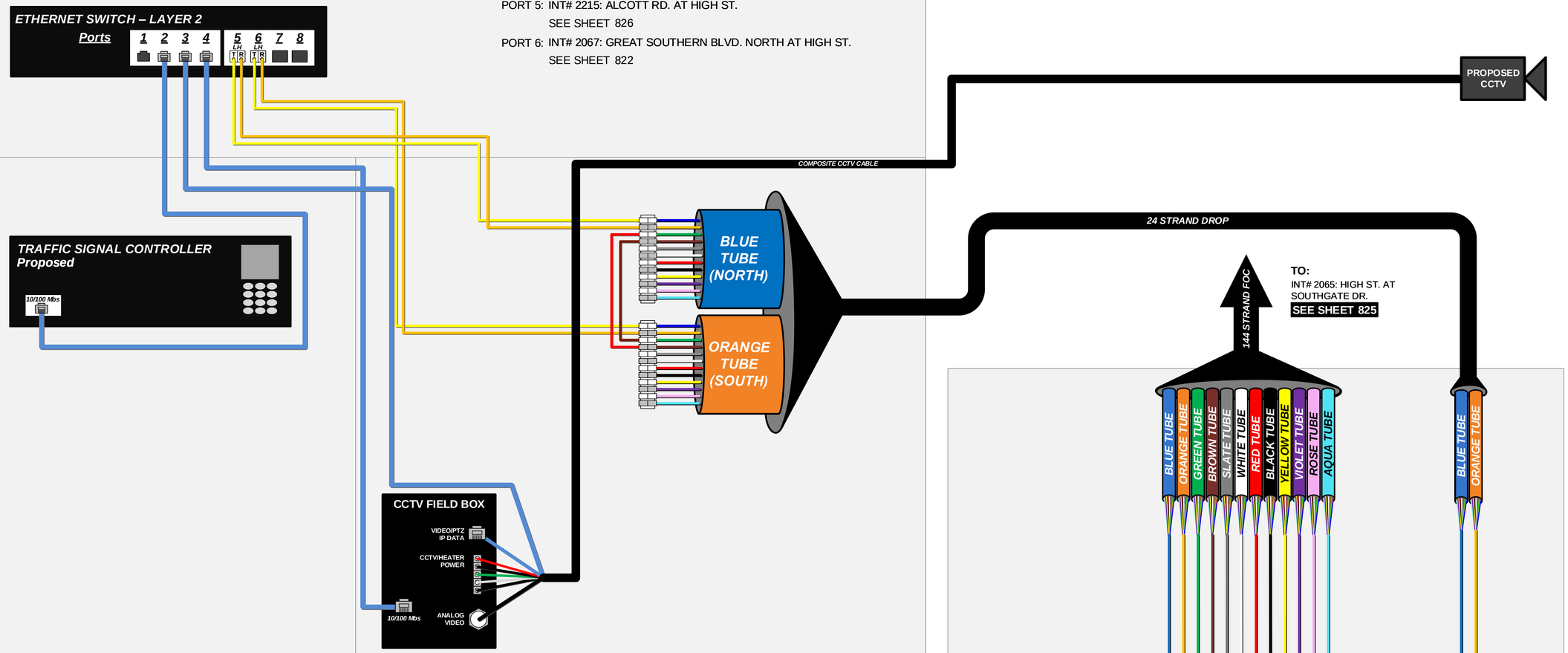
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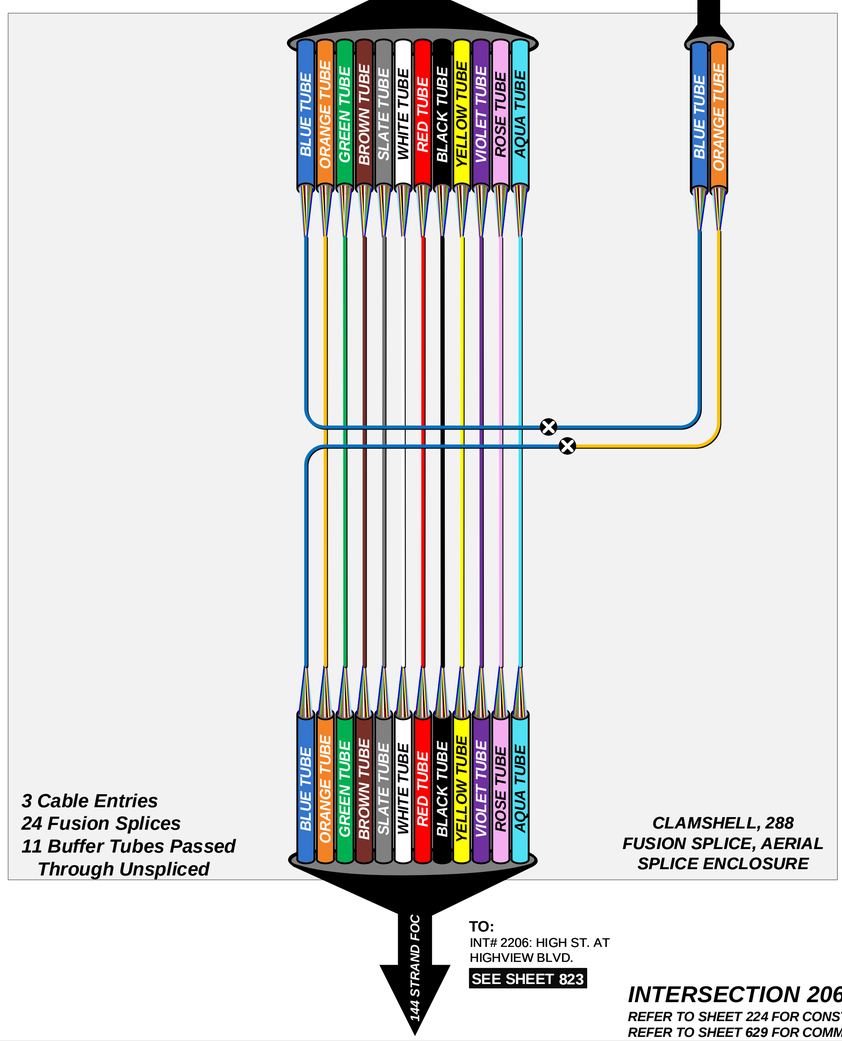
TRAFFIC SIGNAL CABINET ASSEMBLY

ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 2215: ALCOTT RD. AT HIGH ST.
SEE SHEET 826

PORT 6: INT# 2067: GREAT SOUTHERN BLVD. NORTH AT HIGH ST.
SEE SHEET 822

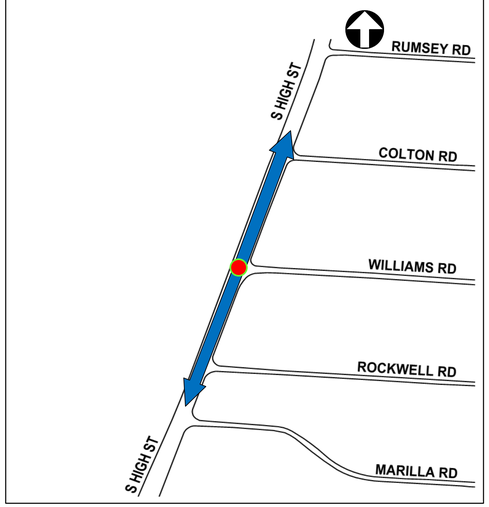




LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- LH/ZX (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 2066

REFER TO SHEET 224 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 629 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100012
PID NUMBER: 99733

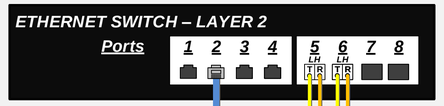
INT# 2066: HIGH ST. AT WILLIAMS RD.
COMMUNICATIONS DIAGRAM

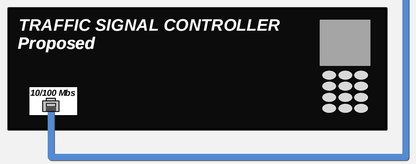
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

824
915

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TRAFFIC SIGNAL CABINET ASSEMBLY

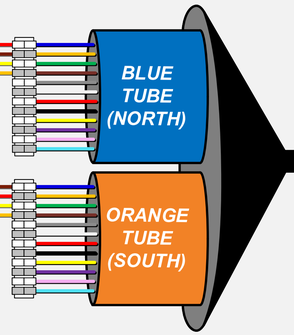




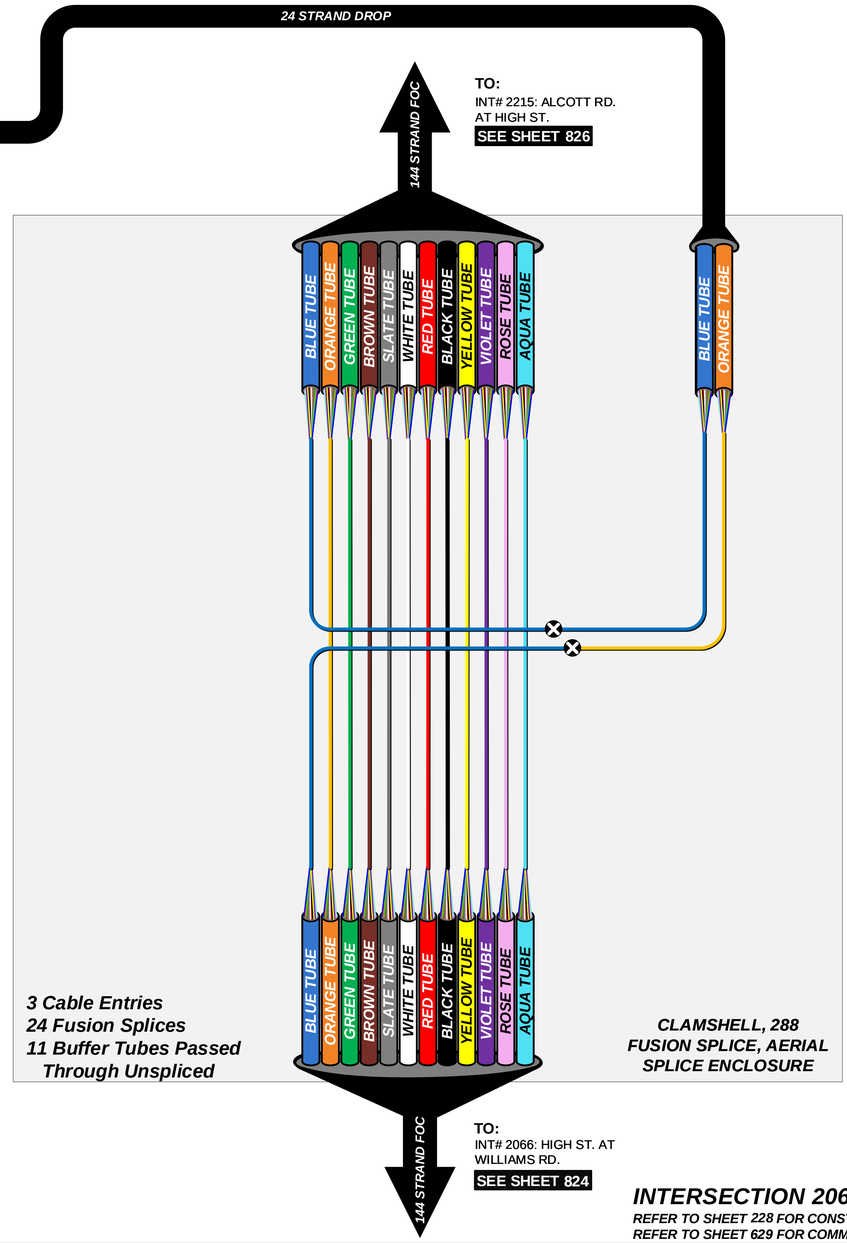
ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 2064: DERING AVE. AT HIGH ST.
SEE SHEET 827

PORT 6: INT# 2206: HIGH ST. AT HIGHVIEW BLVD.
SEE SHEET 823



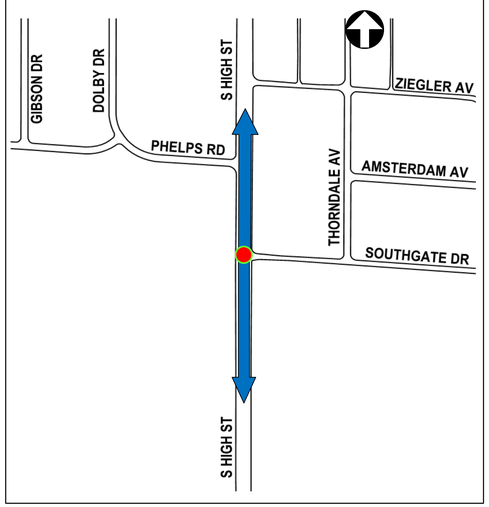
PATCH PANEL ENCLOSURE – 24 TERMINATION



LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- LH/ZX (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 2065

REFER TO SHEET 228 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 629 FOR COMM OVERVIEW DETAILS

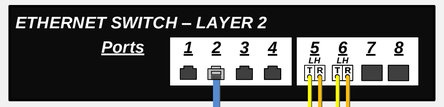
CIP: 540007 - 100012
PID NUMBER: 99733

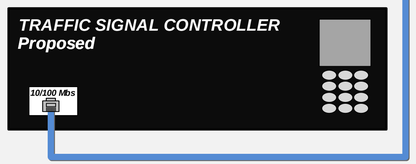
INT# 2065: HIGH ST. AT SOUTHGATE DR.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

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TRAFFIC SIGNAL CABINET ASSEMBLY

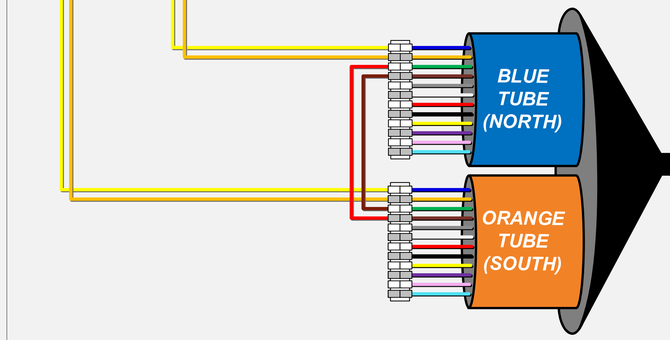




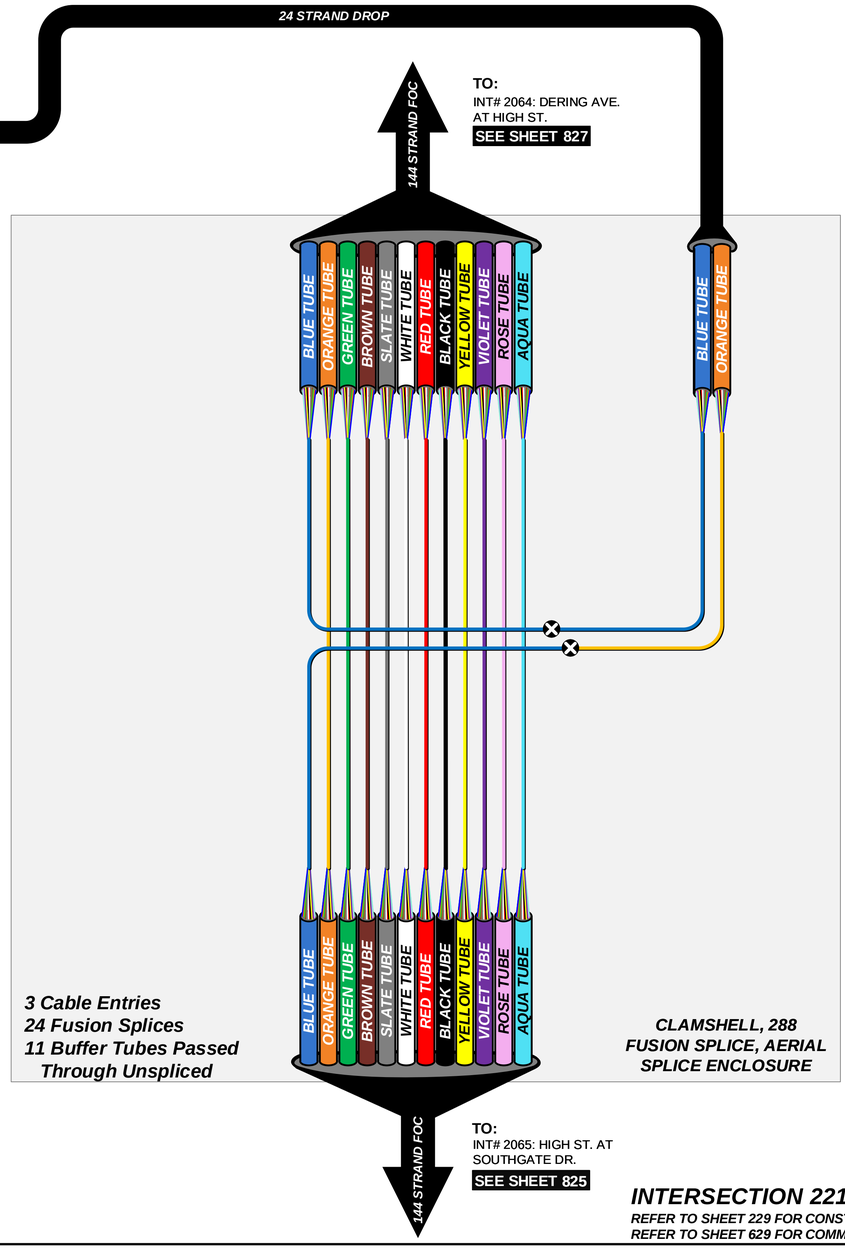
ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 2063: SR-104 EB RAMPS AT HIGH ST.
SEE SHEET 828

PORT 6: INT# 2066: HIGH ST. AT WILLIAMS RD.
SEE SHEET 824



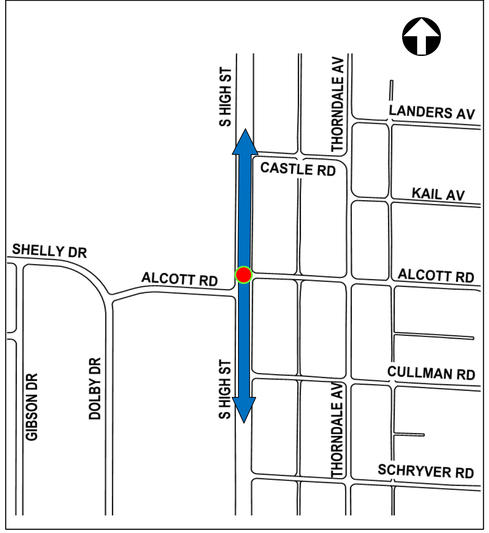
PATCH PANEL ENCLOSURE – 24 TERMINATION



LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- LH/ZX T R — GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 2215

REFER TO SHEET 229 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 629 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100012
PID NUMBER: 99733

INT# 2215: ALCOTT RD. AT HIGH ST.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

826
915

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TRAFFIC SIGNAL CABINET ASSEMBLY

ETHERNET SWITCH – LAYER 2

1 2 3 4 5 6 7 8

5 6 LH T R

TRAFFIC SIGNAL CONTROLLER
Ex. Econolite ASC/3-2100

Ethernet Module
10/100 Mbs

REVISED ETHERNET SWITCH PORT DESTINATION

PORT 5: PROPOSED COMMUNICATION NODE# 104091.0: SR-104 AT US-23
(Revised) SEE SHEET 874

PORT 6: INT# 2065: HIGH ST. AT SOUTHGATE DR.
(Revised) SEE SHEET 825

BLUE TUBE (NORTH)

ORANGE TUBE (SOUTH)

EXISTING PATCH PANEL ENCLOSURE – 24 TERMINATION

EXISTING 24 STRAND DROP

EXISTING 144 STRAND FOC

TO:
INT# 2063: SR-104 EB RAMPS AT HIGH ST.
SEE SHEET 828

BLUE TUBE
ORANGE TUBE

BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE
RED TUBE
BLACK TUBE
YELLOW TUBE
VIOLET TUBE
ROSE TUBE
AQUA TUBE

3 Cable Entries
144 Proposed Fusion Splices
156 Total Fusion Splices

EXISTING SPLICE ENCLOSURE

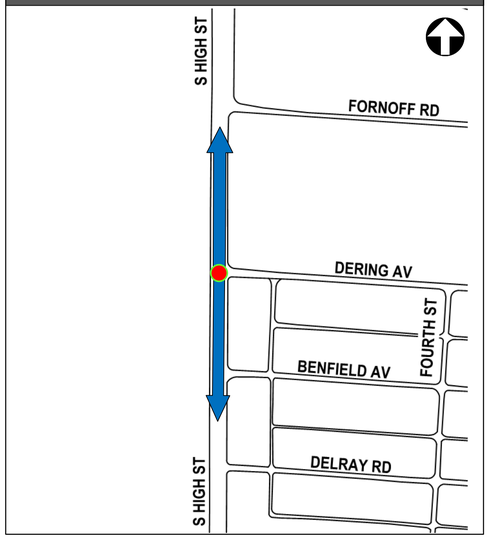
144 STRAND FOC

TO:
INT# 2215: ALCOTT RD. AT HIGH ST.
SEE SHEET 826

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- *LH/ZX* GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



NOTES.

DISCONNECT EXISTING LC FIBER PATCH CABLES BETWEEN EXISTING PATCH PANEL AND NETWORK SWITCH. REPLACE CONNECTION WITH PATCH CABLES AS SHOWN IN COLOR ON PLAN ABOVE.

INTERSECTION 2064

REFER TO SHEET 231 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 629 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100012
PID NUMBER: 99733

INT# 2064: DERING AVE. AT HIGH ST.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

827
915

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TRAFFIC SIGNAL CABINET ASSEMBLY

ETHERNET SWITCH – LAYER 2

Ports 1 2 3 4 5 6 7 8 (5 LH T R, 6 LH T R)

TRAFFIC SIGNAL CONTROLLER
Ex. Econolite ASC/3-2100

Ethernet Module — *10/100 Mbs*

REVISED ETHERNET SWITCH PORT DESTINATION

PORT 5: **(Revised)** PROPOSED COMMUNICATION NODE# 104091.0: SR-104 AT US-23
SEE SHEET 874

PORT 6: **(Revised)** INT# 2215: ALCOTT RD. AT HIGH ST.
SEE SHEET 826

BLUE TUBE (NORTH)

ORANGE TUBE (SOUTH)

EXISTING 24 STRAND DROP

EXISTING PATCH PANEL ENCLOSURE – 24 TERMINATION

EXISTING 144 STRAND FOC

TO:
INT# 2062: SR-104 WB RAMPS AT HIGH ST.
SEE SHEET 829

BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE
RED TUBE
BLACK TUBE
YELLOW TUBE
VIOLET TUBE
ROSE TUBE
AQUA TUBE

BLUE TUBE
ORANGE TUBE

EXISTING SPLICE ENCLOSURE

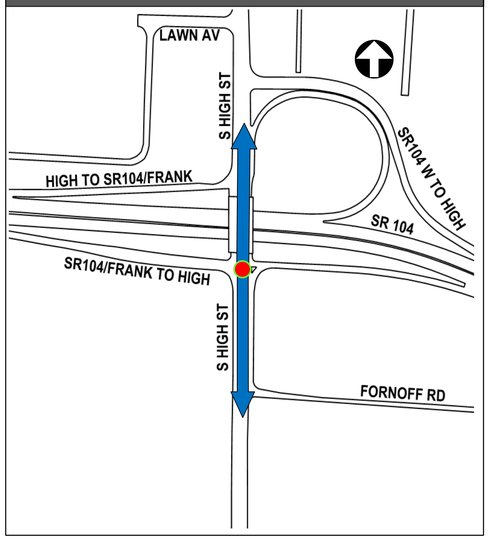
EXISTING 144 STRAND FOC

TO:
INT# 2064: DERING AVE. AT HIGH ST.
SEE SHEET 827

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- *LH/ZX* (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



NOTES

NO PROPOSED WORK IS PERFORMED ON THIS SHEET. SHEET ADDED FOR REFERENCE ONLY. REFER TO THE REVISED LAYER 2 EHERNET SWITCH PORT DESTINATIONS FOR UPDATED PORT DESTINATIONS.

INTERSECTION 2063

REFER TO SHEET 629 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100012
PID NUMBER: 99733

INT# 2063: SR-104 EB RAMPS AT HIGH ST.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

828
915

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TRAFFIC SIGNAL CABINET ASSEMBLY

ETHERNET SWITCH – LAYER 2

Ports 1 2 3 4 5 6 7 8 (5 LH T R, 6 LH T R)

TRAFFIC SIGNAL CONTROLLER
Ex. Econolite ASC/3-2100

Ethernet Module
10/100 Mbs

REVISED ETHERNET SWITCH PORT DESTINATION

PORT 5: EXISTING CONNECTION TO INT# 2060: HIGH ST. AT SOUTHWOOD AVE.

PORT 6: PROPOSED COMMUNICATION NODE# 104091.0: SR-104 AT US-23
(Revised) SEE SHEET 874

BLUE TUBE (NORTH)

ORANGE TUBE (SOUTH)

EXISTING 24 STRAND DROP

BLUE TUBE

ORANGE TUBE

144SMF CABLE NORTH HIGH ST TRUNK

TO:
INT# 2061: BARTHMAN AVE. AT HIGH ST.
SEE SHEET 933A

5 Cable Entries
300 Proposed Fusion Splices
312 Total Fusion Splices

144SMF CABLE SOUTH HIGH ST TRUNK

144SMF CABLE SOUTH HIGH ST TRUNK

144SMF CABLE NORTH HIGH ST TRUNK

DOME, 800 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

TO:
INT# 2063: SR-104 EB RAMPS AT HIGH ST.
SEE SHEET 828

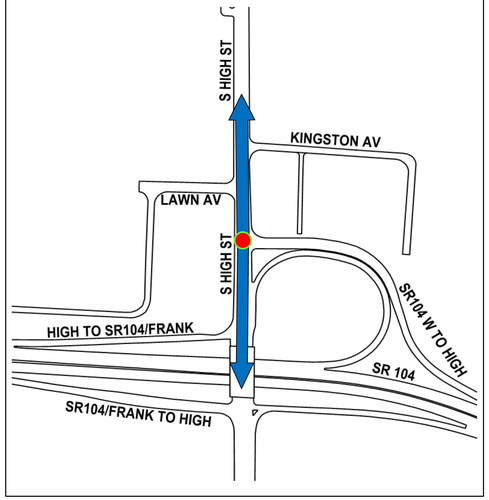
MATCHLINE A - SEE COMMUNICATION NODE# 104091.0 SHEET 875

EXISTING PATCH PANEL ENCLOSURE – 24 TERMINATION

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- *LH/ZX* (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



NOTES

REMOVE EXISTING FUSION SPLICES AND RESPLICES BUFFER TUBES AS SHOWN IN THE DIAGRAM ABOVE.

INTERSECTION 2062
REFER TO SHEET 578 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 629 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100012
PID NUMBER: 99733

INT# 2062: SR-104 WB RAMPS AT HIGH ST.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

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TRAFFIC SIGNAL CABINET ASSEMBLY

ETHERNET SWITCH – LAYER 2

Ports 1 2 3 4 5 6 7 8 (5, 6: LH T R)

TRAFFIC SIGNAL CONTROLLER
Ex. Econolite ASC/3-2100

Ethernet Module — *10/100 Mbs*

REVISED ETHERNET SWITCH PORT DESTINATION

PORT 5: EXISTING CONNECTION TO INT# 2059: HIGH ST. AT MOLER ST.

PORT 6: PROPOSED COMMUNICATION NODE# 104091.0: SR-104 AT US-23
(Revised) SEE SHEET 874

BLUE TUBE (NORTH)

ORANGE TUBE (SOUTH)

EXISTING PATCH PANEL ENCLOSURE – 24 TERMINATION

EXISTING 24 STRAND DROP

EXISTING 144 STRAND FOC

TO:
INT# 2060: SOUTHWOOD AVE. AT HIGH ST.

BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE
RED TUBE
BLACK TUBE
YELLOW TUBE
VIOLET TUBE
ROSE TUBE
AQUA TUBE

BLUE TUBE
ORANGE TUBE

EXISTING 144 STRAND FOC

TO:
INT# 2049: BARTHMAN AVE. AT PARSONS AVE.

EXISTING 144 STRAND FOC

TO:
INT# 2062: SR-104 WB RAMPS AT HIGH ST.
SEE SHEET 829

EXISTING SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- *LH/ZX* (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



NOTES

NO PROPOSED WORK IS PERFORMED ON THIS SHEET. SHEET ADDED FOR REFERENCE ONLY. REFER TO THE REVISED LAYER 2 EHERNET SWITCH PORT DESTINATIONS FOR UPDATED PORT DESTINATIONS.

INTERSECTION 2061

REFER TO SHEET 629 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100012
PID NUMBER: 99733

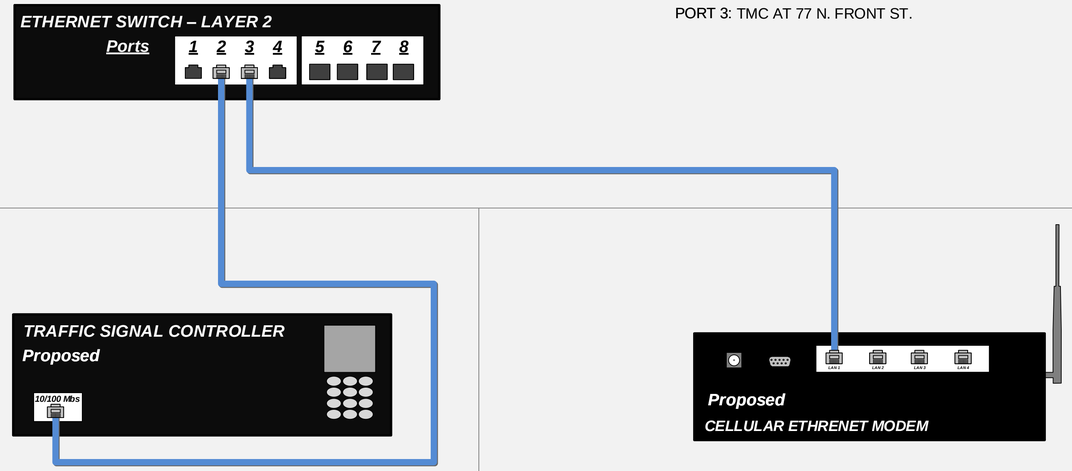
INT# 2061: BARTHMAN AVE. AT HIGH ST.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

830
915

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TRAFFIC SIGNAL CABINET ASSEMBLY



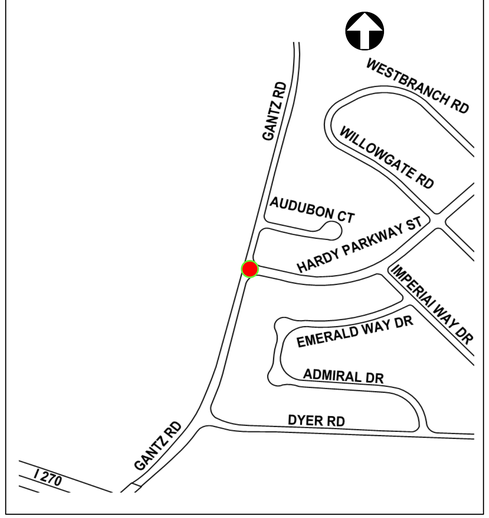
ETHERNET SWITCH PORT DESTINATION

PORT 3: TMC AT 77 N. FRONT ST.

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 1112

REFER TO SHEET 183 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 629 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100012
PID NUMBER: 99733

INT# 1112: GANTZ RD. AT HARDY PKWY.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

831
915

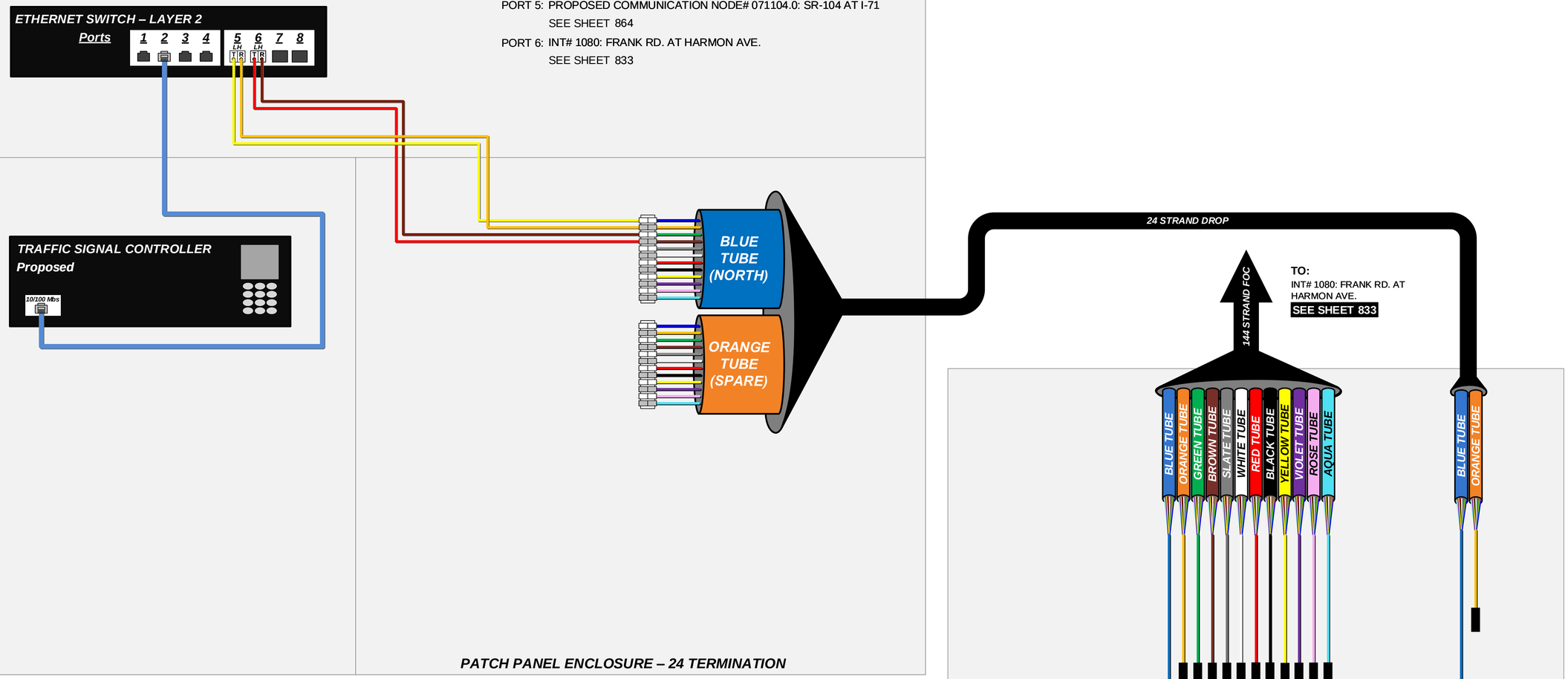
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TRAFFIC SIGNAL CABINET ASSEMBLY

ETHERNET SWITCH PORT DESTINATION

PORT 5: PROPOSED COMMUNICATION NODE# 071104.0: SR-104 AT I-71
SEE SHEET 864

PORT 6: INT# 1080: FRANK RD. AT HARMON AVE.
SEE SHEET 833



PATCH PANEL ENCLOSURE – 24 TERMINATION

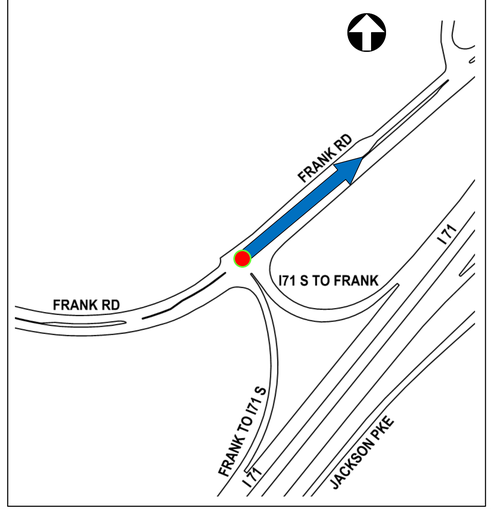
2 Cable Entries
12 Fusion Splices
12 Coiled Buffer Tubes

CLAMSHELL, 288 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- *LH/ZX* (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 1070
REFER TO SHEET 184 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 629 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100012
PID NUMBER: 99733

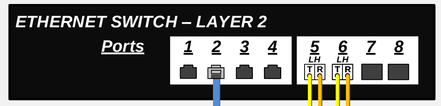
INT# 1070: FRANK RD. AT I-71 SB
COMMUNICATIONS DIAGRAM

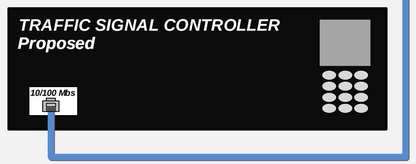
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

832
915

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TRAFFIC SIGNAL CABINET ASSEMBLY

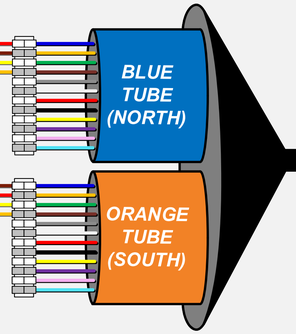




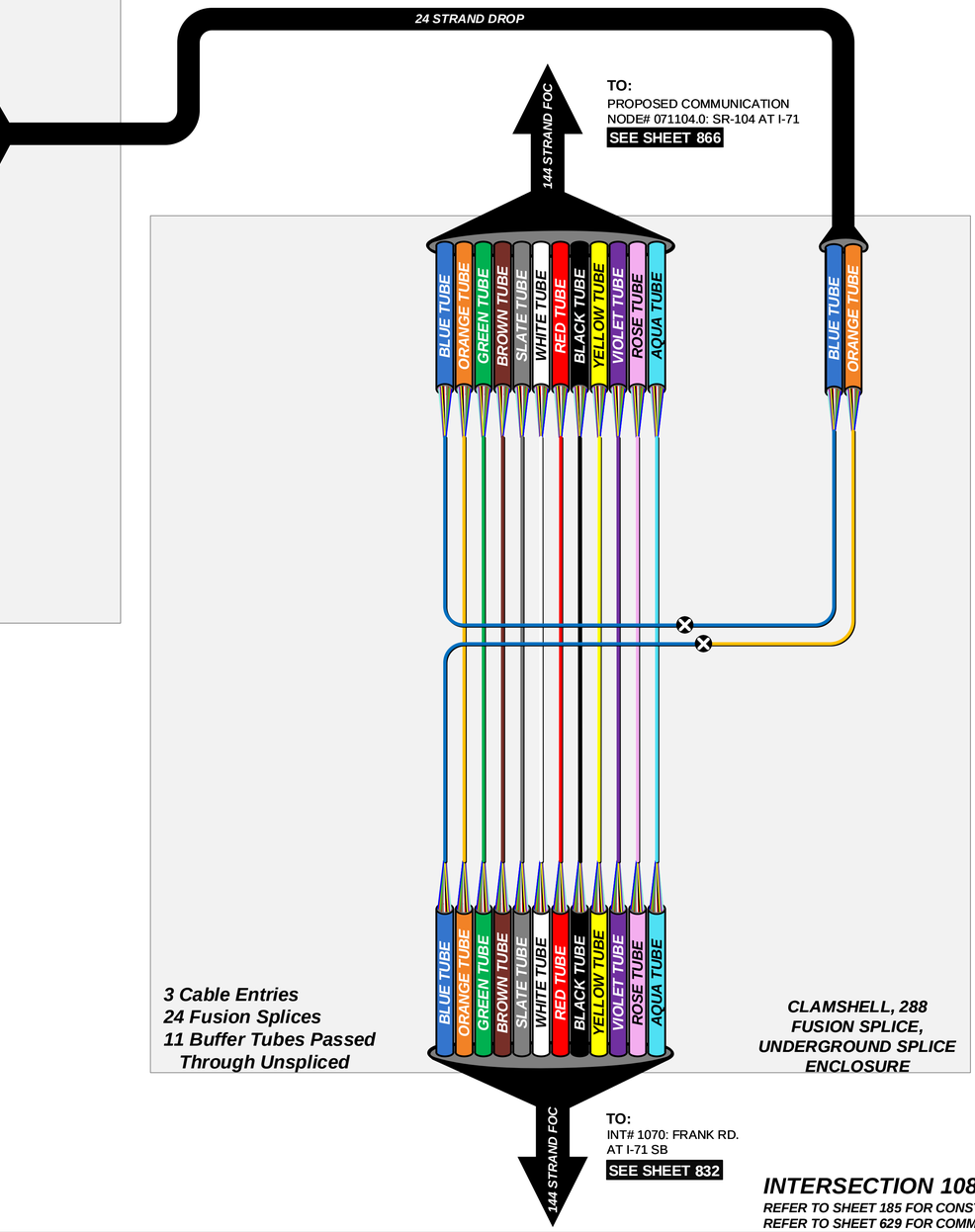
ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 1068: JACKSON PKE. AT SR-104
SEE SHEET 838

PORT 6: INT# 1070: FRANK RD. AT I-71 SB
SEE SHEET 832



PATCH PANEL ENCLOSURE – 24 TERMINATION



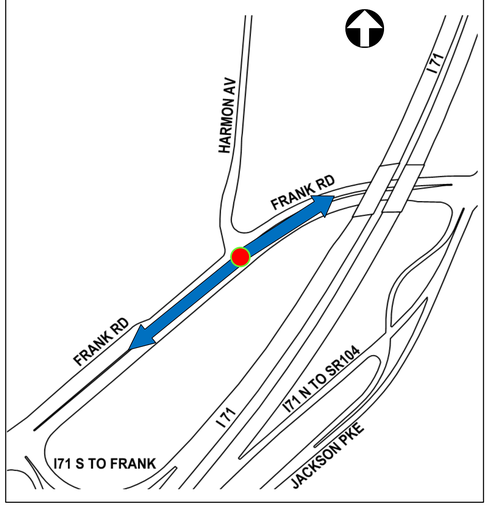
3 Cable Entries
24 Fusion Splices
11 Buffer Tubes Passed Through Unspliced

CLAMSHELL, 288 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- LH/ZX (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 1080

REFER TO SHEET 185 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 629 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100012
PID NUMBER: 99733

INT# 1080: FRANK RD. AT HARMON AVE.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

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TRAFFIC SIGNAL CABINET ASSEMBLY

ETHERNET SWITCH – LAYER 2

Ports 1 2 3 4 5 6 7 8 (5 LH T R, 6 LH T R)

TERMINAL PORT SERVER

10/100 Mbs | RS232 #1 | RS232 #2

TRAFFIC SIGNAL CONTROLLER

Ex. Econolite ASC/2S-2100

RS232

REVISED ETHERNET SWITCH PORT DESTINATION

PORT 5: PROPOSED COMMUNICATION NODE# 071105.4: GREENLAWN AVE. AT I-71
(Revised) SEE SHEET 867

PORT 6: EXISTING CONNECTION TO COMMUNICATION NODE# 315000.9: SR-315 AT W. BROAD ST.

EXISTING PATCH PANEL ENCLOSURE – 24 TERMINATION

BLUE TUBE (NORTH)

ORANGE TUBE (EAST)

EXISTING 24 STRAND DROP

EXISTING 144 STRAND FOC

TO:
INT# 1067: MOUND ST.
AT SOUDER AVE.

BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE
RED TUBE
BLACK TUBE
YELLOW TUBE
VIOLET TUBE
ROSE TUBE
AQUA TUBE

EXISTING 144 STRAND FOC

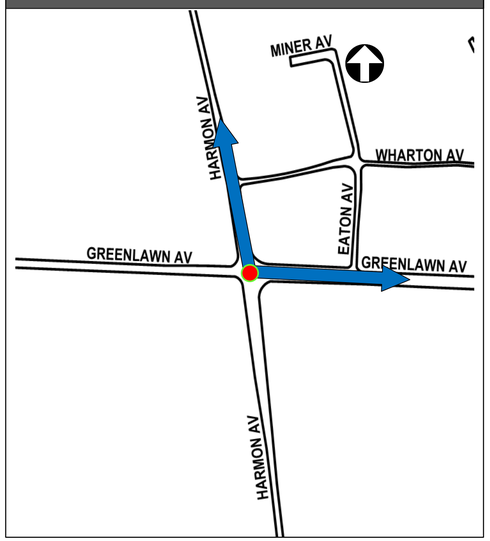
TO:
INT# 1076: I-71 SB RAMPS
AT GREENLAWN AVE.
SEE SHEET 835

EXISTING SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



NOTES

NO PROPOSED WORK IS PERFORMED ON THIS SHEET. SHEET ADDED FOR REFERENCE ONLY. REFER TO THE REVISED LAYER 2 EHERNET SWITCH PORT DESTINATIONS FOR UPDATED PORT DESTINATIONS.

INTERSECTION SIG4150

REFER TO SHEET 629 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100012
PID NUMBER: 99733

INT# SIG4150: GREENLAWN AVE. AT HARMON AVE.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

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TRAFFIC SIGNAL CABINET ASSEMBLY

ETHERNET SWITCH – LAYER 2

Ports 1 2 3 4 5 6 7 8 (5, 6: LH T R)

TERMINAL PORT SERVER

10/100 Mbs | RS232 #1 | RS232 #2

TRAFFIC SIGNAL CONTROLLER
Ex. Econolite ASC/2S-2100

RS232

REVISED ETHERNET SWITCH PORT DESTINATION

PORT 5: PROPOSED COMMUNICATION NODE# 071105.4: GREENLAWN AVE. AT I-71
(Revised) SEE SHEET 867

PORT 6: EXISTING CONNECTION TO COMMUNICATION NODE# 315000.9:
SR-315 AT W. BROAD ST.

EXISTING PATCH PANEL ENCLOSURE – 24 TERMINATION

BLUE TUBE (EAST)

ORANGE TUBE (WEST)

EXISTING 24 STRAND DROP

BLUE TUBE | ORANGE TUBE

BLUE TUBE	BLUE TUBE
ORANGE TUBE	ORANGE TUBE
GREEN TUBE	GREEN TUBE
BROWN TUBE	BROWN TUBE
SLATE TUBE	SLATE TUBE
WHITE TUBE	WHITE TUBE
RED TUBE	RED TUBE
BLACK TUBE	BLACK TUBE
YELLOW TUBE	YELLOW TUBE
VIOLET TUBE	VIOLET TUBE
ROSE TUBE	ROSE TUBE
AQUA TUBE	AQUA TUBE

EXISTING 144 STRAND FOC

TO:
INT# SIG4150:
GREENLAWN AVE. AT
HARMON AVE.
SEE SHEET 834

EXISTING 144 STRAND FOC

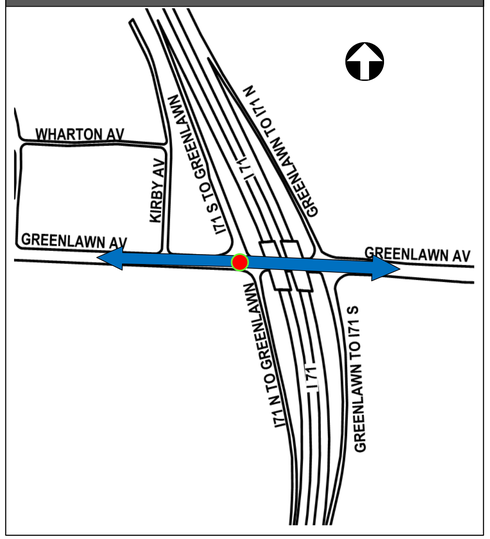
TO:
INT# 1077: I-71 NB RAMPS
AT GREENLAWN AVE.
SEE SHEET 836

EXISTING SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- LH/ZX (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



NOTES

NO PROPOSED WORK IS PERFORMED ON THIS SHEET. SHEET ADDED FOR REFERENCE ONLY. REFER TO THE REVISED LAYER 2 EHERNET SWITCH PORT DESTINATIONS FOR UPDATED PORT DESTINATIONS.

INTERSECTION 1076

REFER TO SHEET 629 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100012
PID NUMBER: 99733

INT# 1076: I-71 SB RAMPS AT GREENLAWN AVE.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

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TRAFFIC SIGNAL CABINET ASSEMBLY

ETHERNET SWITCH – LAYER 2

1 2 3 4 5 6 7 8

5 LH T R
6 LH T R

TERMINAL PORT SERVER

10/100 Mbs | RS232 #1 | RS232 #2

TRAFFIC SIGNAL CONTROLLER
Ex. Econolite ASC/2S-2100

RS232

REVISED ETHERNET SWITCH PORT DESTINATION

PORT 5: EXISTING CONNECTION TO INT# 2054: FRONT ST. AT GREENLAWN AVE.

PORT 6: **(Revised)** PROPOSED COMMUNICATION NODE# 071105.4: GREENLAWN AVE. AT I-71

SEE SHEET 867

EXISTING CCTV CABINET

CCTV FIELD BOX

VIDEO/PTZ IP DATA
CCTV/HEATER POWER
ANALOG VIDEO
10/100 Mbs

EXISTING COMPOSITE CCTV CABLE

EXISTING CCTV

BLUE TUBE (EAST)

ORANGE TUBE (WEST)

EXISTING PATCH PANEL ENCLOSURE – 24 TERMINATION

EXISTING 24 STRAND DROP

MATCHLINE A - SEE COMMUNICATION NODE #071105.4 SHEET 868

144SMF CABLE WEST GREENLAWN AVE TRUNK

144SMF CABLE EAST GREENLAWN AVE TRUNK

ORANGE TUBE

BLUE TUBE

144SMF CABLE WEST GREENLAWN AVE TRUNK

TO:
INT# 1076: I-71 SB RAMPS AT GREENLAWN AVE.
SEE SHEET 835

144SMF CABLE EAST GREENLAWN AVE TRUNK

TO:
INT# 1078: DECKENBACH RD. AT GREENLAWN AVE.
SEE SHEET 837

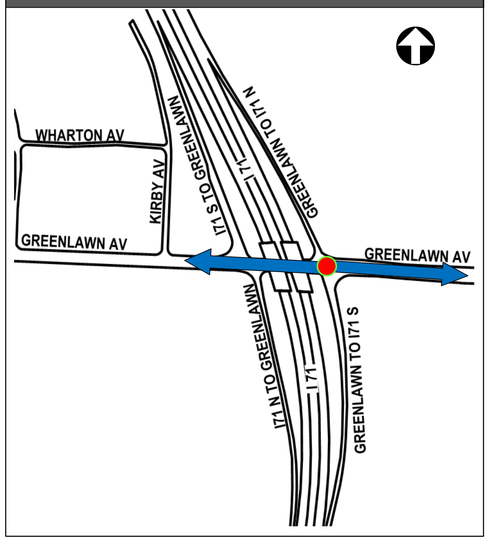
5 Cable Entries
300 Fusion Splices

DOME, 800 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- LH/ZX (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



NOTES

REMOVE EXISTING CAT5E CABLE CONNECTION TO COMMUNICTAION NODE# 071105.4: 1-71 AND GREENLAWN AVE. RESPLICE 144 STRAND FIBERS AS SHOWN IN THE DIAGRAM ABOVE.

INTERSECTION 1077

REFER TO SHEET 573 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 629 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100012
PID NUMBER: 99733

INT# 1077: I-71 NB RAMPS AT GREENLAWN AVE.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

836
915

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TRAFFIC SIGNAL CABINET ASSEMBLY

ETHERNET SWITCH – LAYER 2

Ports 1 2 3 4 5 6 7 8 (5, 6: LH T R)

TERMINAL PORT SERVER

10/100 Mbs | RS232 #1 | RS232 #2

TRAFFIC SIGNAL CONTROLLER

Ex. Econolite ASC/2S-2100

RS232

REVISED ETHERNET SWITCH PORT DESTINATION

PORT 5: EXISTING CONNECTION TO INT# 2060: HIGH ST. AT SOUTHHWOOD AVE.

PORT 6: PROPOSED COMMUNICATION NODE# 071105.4: GREENLAWN AVE. AT I-71
(Revised) SEE SHEET 867

EXISTING PATCH PANEL ENCLOSURE – 24 TERMINATION

BLUE TUBE (EAST)

ORANGE TUBE (WEST)

EXISTING 24 STRAND DROP

BLUE TUBE ***ORANGE TUBE***

BLUE TUBE	BLUE TUBE
ORANGE TUBE	ORANGE TUBE
GREEN TUBE	GREEN TUBE
BROWN TUBE	BROWN TUBE
SLATE TUBE	SLATE TUBE
WHITE TUBE	WHITE TUBE
RED TUBE	RED TUBE
BLACK TUBE	BLACK TUBE
YELLOW TUBE	YELLOW TUBE
VIOLET TUBE	VIOLET TUBE
ROSE TUBE	ROSE TUBE
AQUA TUBE	AQUA TUBE

EXISTING 144 STRAND FOC

TO:
INT# 1077: I-71 NB RAMPS AT GREENLAWN AVE.
SEE SHEET 836

EXISTING 144 STRAND FOC

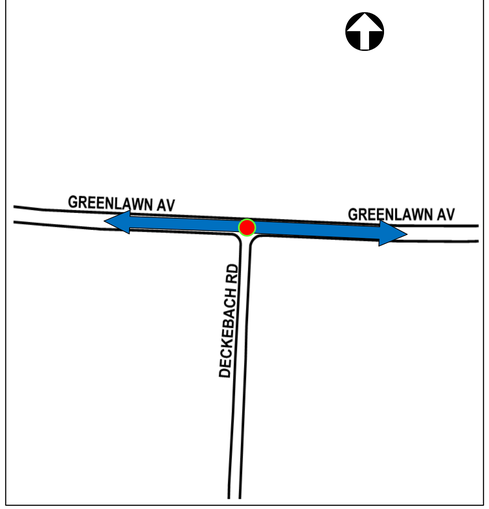
TO:
INT# 2054: FRONT ST. AT GREENLAWN AVE.

EXISTING SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- LH/ZX (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



NOTES

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INTERSECTION 1078

REFER TO SHEET 629 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100012
PID NUMBER: 99733

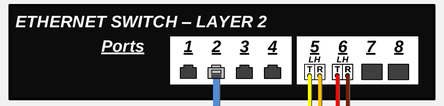
INT# 1078: DECKENBACH RD. AT GREENLAWN AVE.
COMMUNICATIONS DIAGRAM

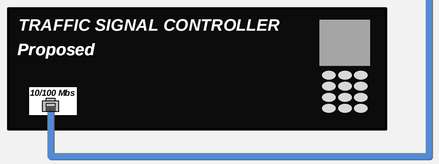
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

837
915

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TRAFFIC SIGNAL CABINET ASSEMBLY

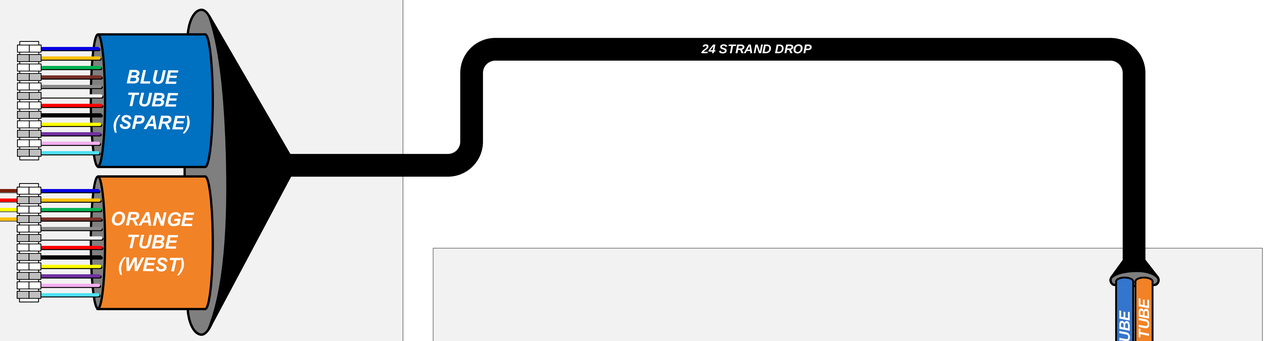




ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 1069: FRANK RD. AT I-71 NB
SEE SHEET 839

PORT 6: INT# 1080: FRANK RD. AT HARMON AVE.
SEE SHEET 833



TO:
INT# 1069: FRANK RD. AT I-71 NB
SEE SHEET 839

PATCH PANEL ENCLOSURE – 24 TERMINATION

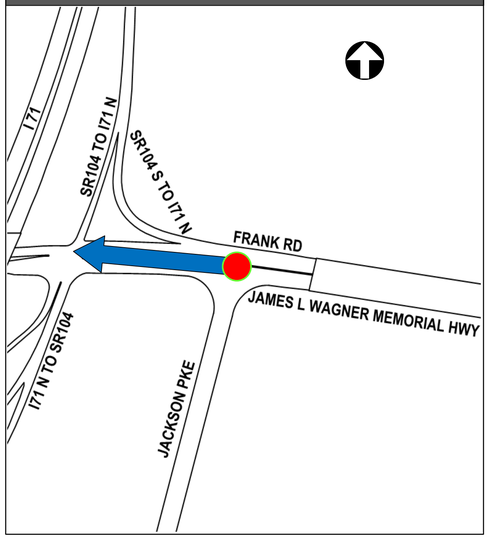
2 Cable Entries
12 Fusion Splices
12 Coiled Buffer tubes

CLAMSHELL, 288 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 1068
REFER TO SHEET 187 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 629 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100012
PID NUMBER: 99733

INT# 1068: JACKSON PKE. AT SR-104
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

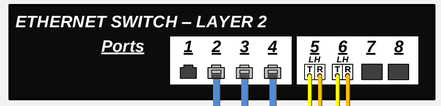
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TRAFFIC SIGNAL CABINET ASSEMBLY

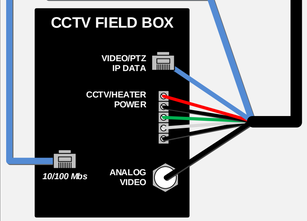
ETHERNET SWITCH PORT DESTINATION

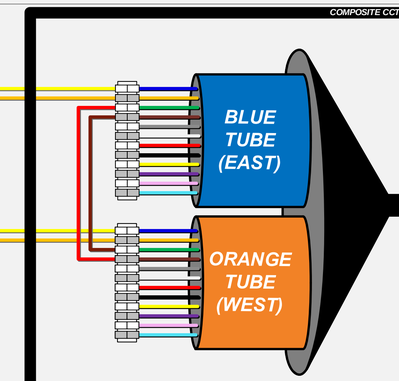
PORT 5: INT# 1068: JACKSON PKE. AT SR-104
SEE SHEET 838

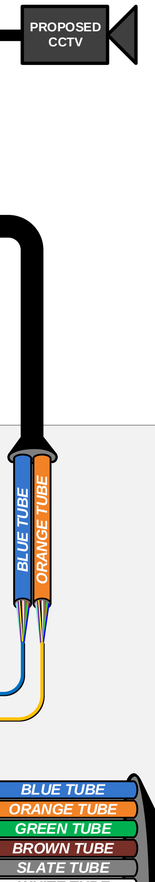
PORT 6: PROPOSED COMMUNICATION NODE# 071104.0: SR-104 AT I-71
SEE SHEET 864











TO:
PROPOSED COMMUNICATION NODE# 071104.0: SR-104 AT I-71
SEE SHEET 866

TO:
INT# 1068: JACKSON PKE. AT SR-104
SEE SHEET 838

3 Cable Entries
24 Fusion Splices
11 Buffer Tubes Passed Through Unspliced

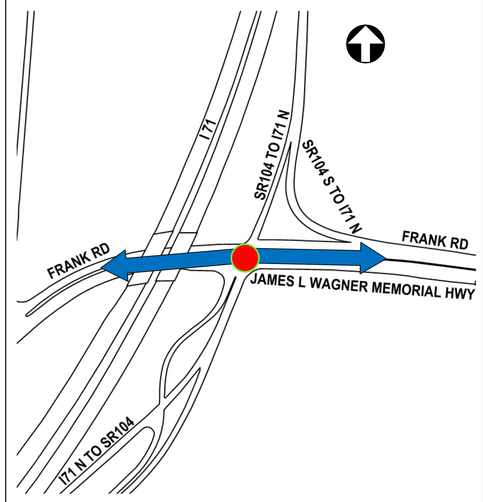
CLAMSHELL, 288 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE

PATCH PANEL ENCLOSURE – 24 TERMINATION

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 1069
REFER TO SHEET 186 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 629 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100012
PID NUMBER: 99733

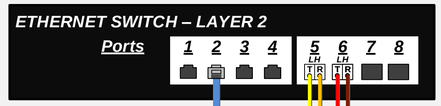
INT# 1069: FRANK RD. AT I-71 NB
COMMUNICATIONS DIAGRAM

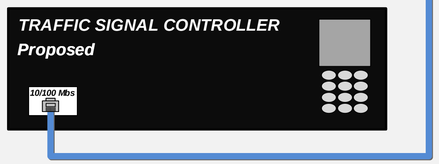
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

839
915

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TRAFFIC SIGNAL CABINET ASSEMBLY

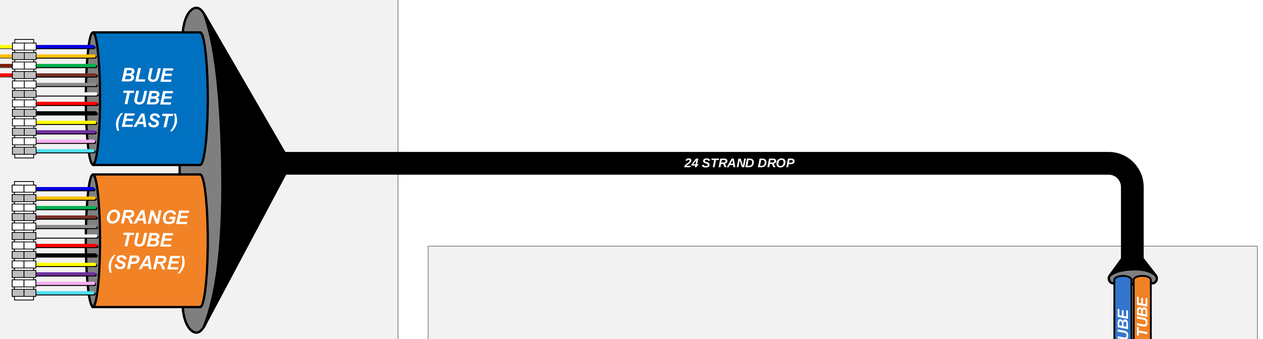




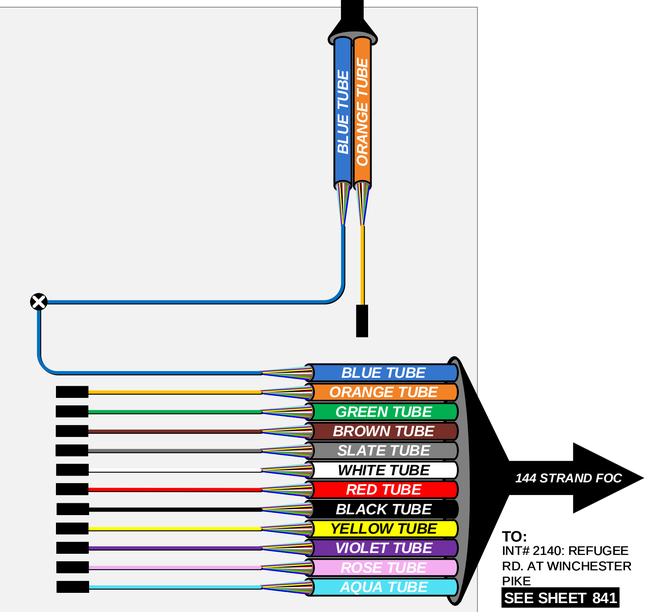
ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 2149: ASKINS RD. / COURTRIGHT RD. AT REFUGEE RD.
SEE SHEET 842

PORT 6: INT# 2140: REFUGEE RD. AT WINCHESTER PIKE
SEE SHEET 841



PATCH PANEL ENCLOSURE – 24 TERMINATION



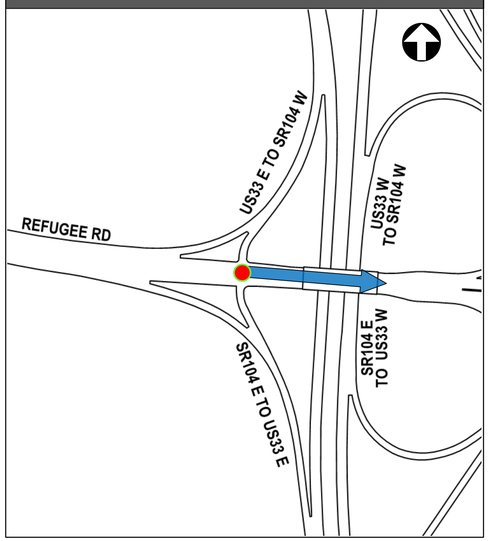
2 Cable Entries
12 Fusion Splices
12 Coiled Buffer tubes

CLAMSHELL, 288 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- LH/ZX (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 2184

REFER TO SHEET 192 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 630 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100012
PID NUMBER: 99733

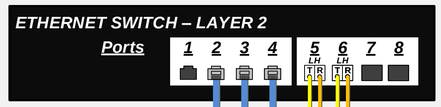
INT# 2184: STATE ROUTE 104 / REFUGEE RD. AT US-33 OFF RAMPS
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

840
915

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TRAFFIC SIGNAL CABINET ASSEMBLY

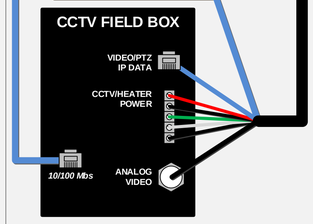




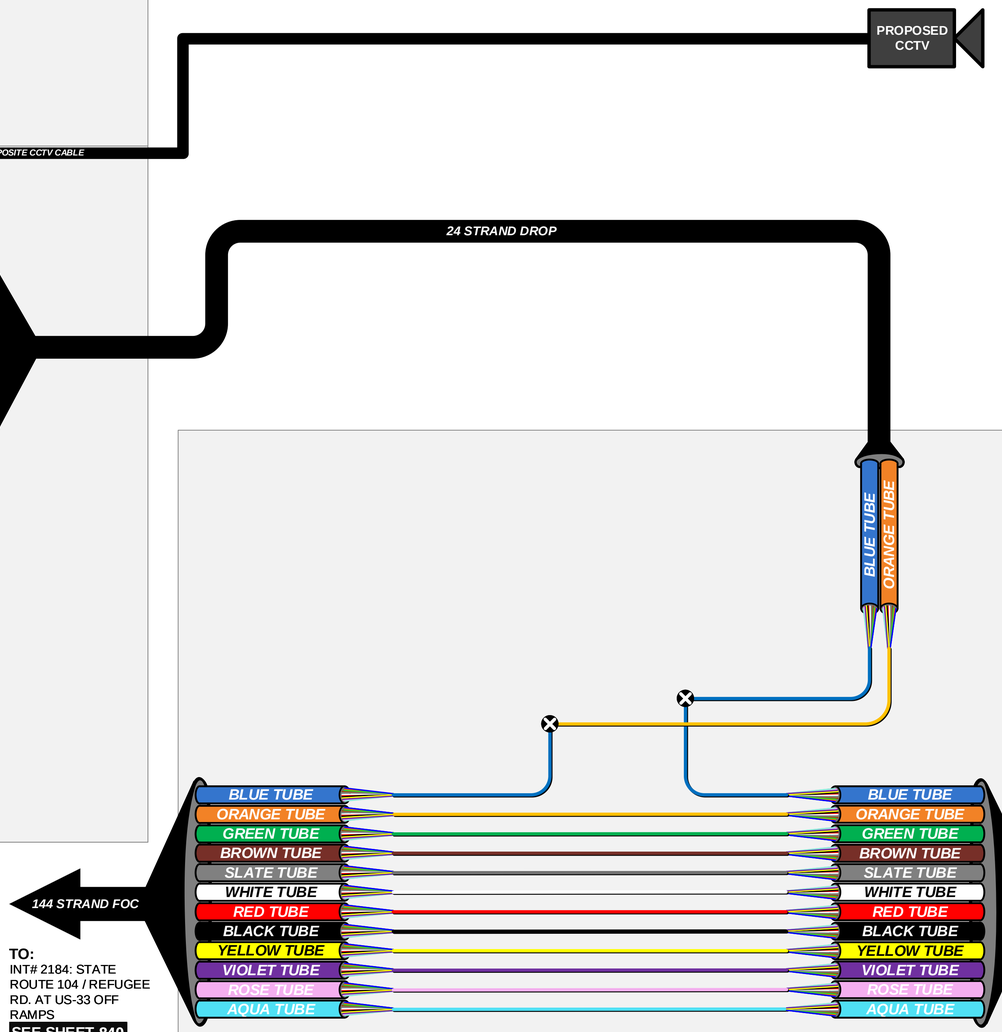
ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 2159: EASTLAND FIVE AT REFUGEE RD.
SEE SHEET 848

PORT 6: INT# 2184: STATE ROUTE 104 / REFUGEE RD. AT US-33 OFF RAMPS
SEE SHEET 840



PATCH PANEL ENCLOSURE – 24 TERMINATION



TO:
INT# 2184: STATE ROUTE 104 / REFUGEE RD. AT US-33 OFF RAMPS
SEE SHEET 840

TO:
INT# 2149: ASKINS RD. / COURTRIGHT RD. AT REFUGEE RD.
SEE SHEET 842

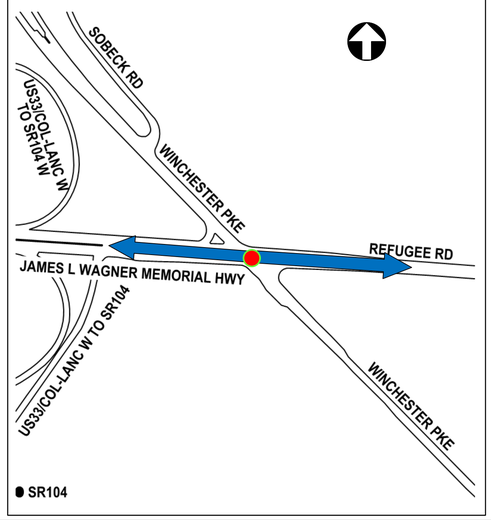
3 Cable Entries
24 Fusion Splices
11 Buffer Tubes Passed Through Unspliced

CLAMSHELL, 288 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 2140

REFER TO SHEET 193 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 630 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100012
PID NUMBER: 99733

INT# 2140: REFUGEE RD. AT WINCHESTER PIKE
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

841
915

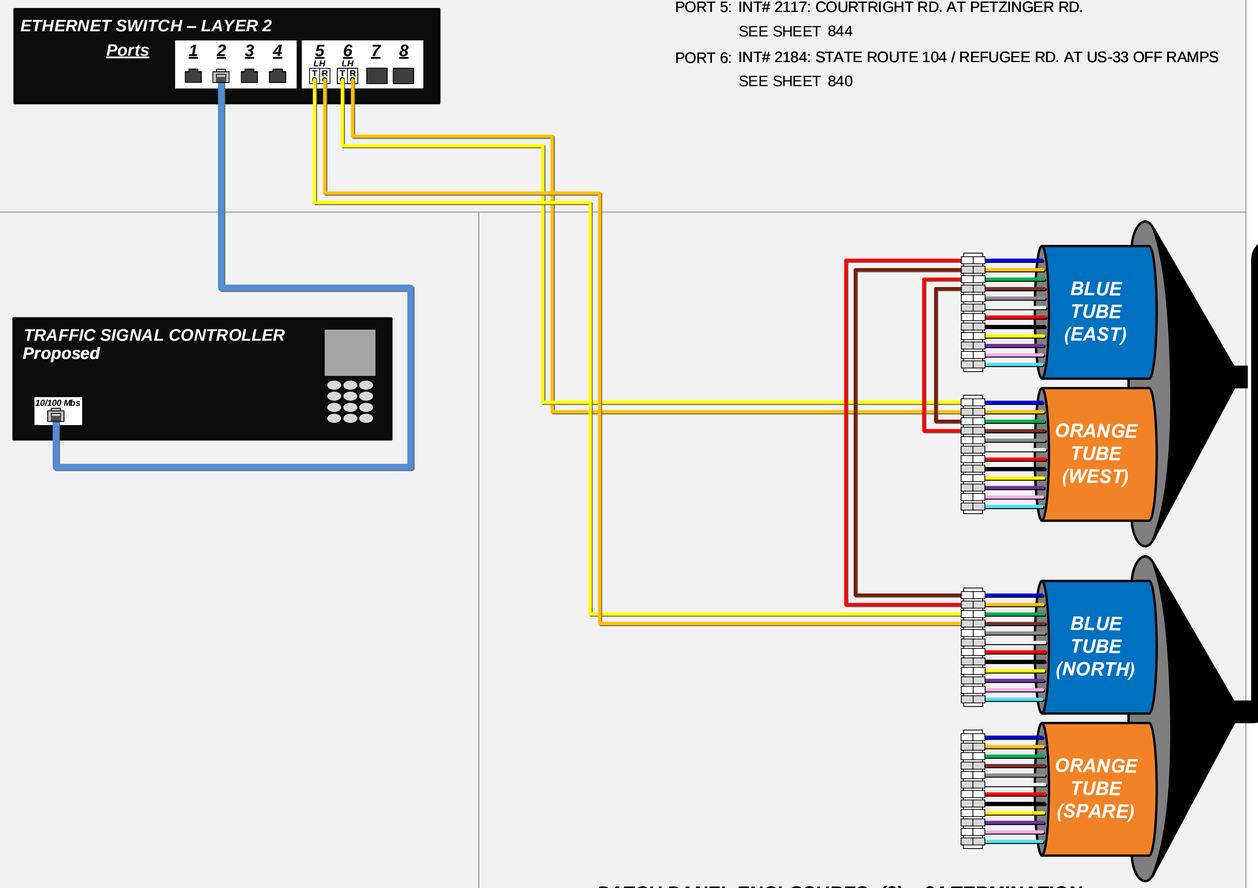
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TRAFFIC SIGNAL CABINET ASSEMBLY

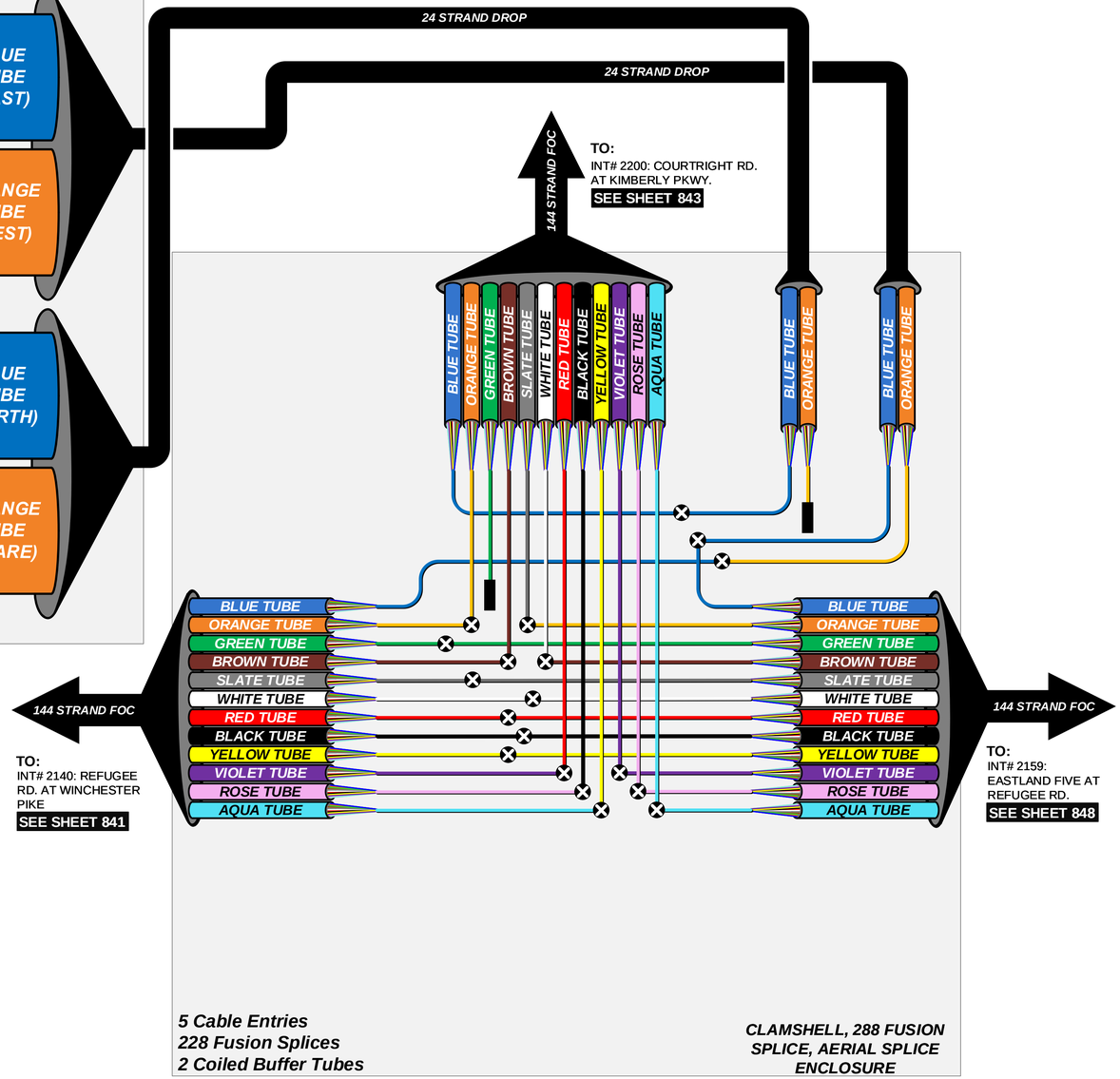
ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 2117: COURTRIGHT RD. AT PETZINGER RD.
SEE SHEET 844

PORT 6: INT# 2184: STATE ROUTE 104 / REFUGEE RD. AT US-33 OFF RAMPS
SEE SHEET 840



PATCH PANEL ENCLOSURES: (2) – 24 TERMINATION



5 Cable Entries
228 Fusion Splices
2 Coiled Buffer Tubes

CLAMSHELL, 288 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- LH/ZX T R GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 2149

REFER TO SHEET 199 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 630 FOR COMM OVERVIEW DETAILS

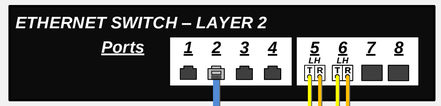
CIP: 540007 - 100012
PID NUMBER: 99733

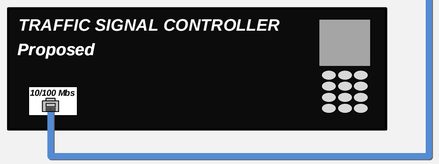
INT# 2149: ASKINS RD. / COURTRIGHT RD. AT REFUGEE RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

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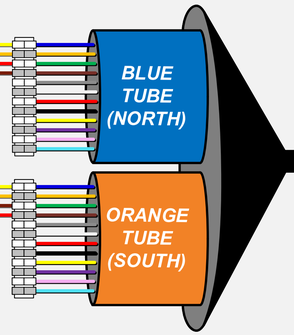




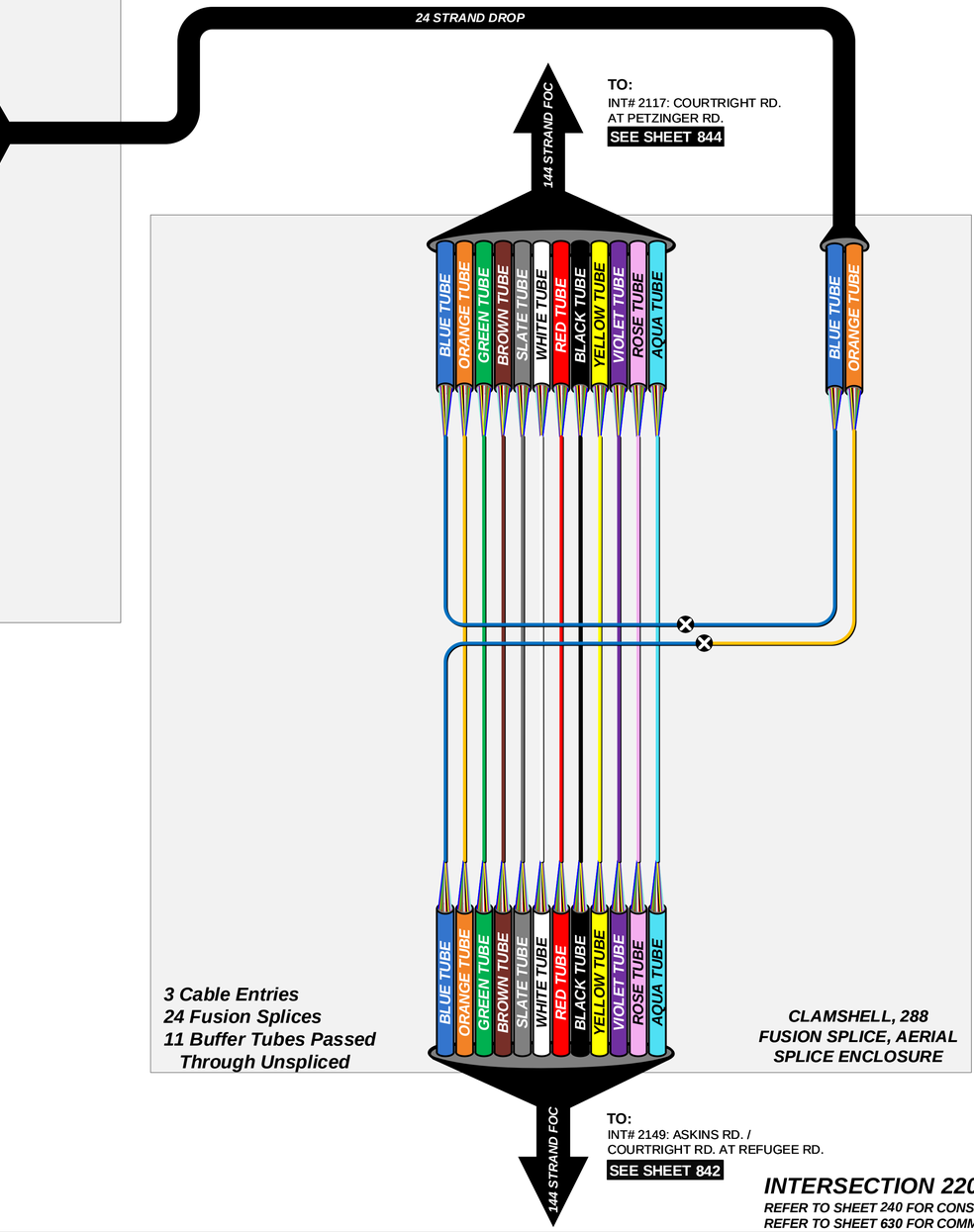
ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 2148: COURTRIGHT RD. AT GROVES RD.
SEE SHEET 845

PORT 6: EXISTING COMMUNICATION NODE# 270045.5: I-270 AT HAMILTON RD.
SEE SHEET 905



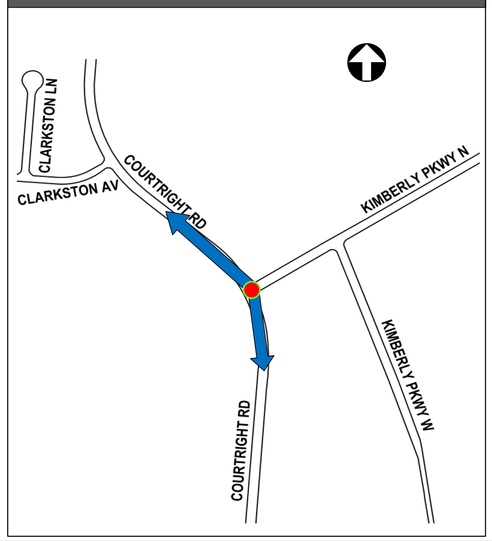
PATCH PANEL ENCLOSURE – 24 TERMINATION



LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 2200

REFER TO SHEET 240 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 630 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100012
PID NUMBER: 99733

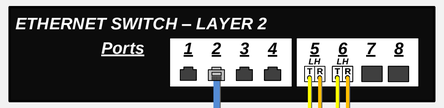
INT# 2200: COURTRIGHT RD. AT KIMBERLY PKWY.
COMMUNICATIONS DIAGRAM

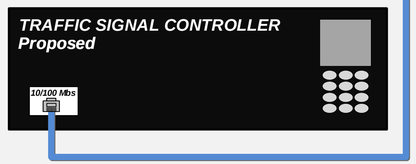
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

843
915

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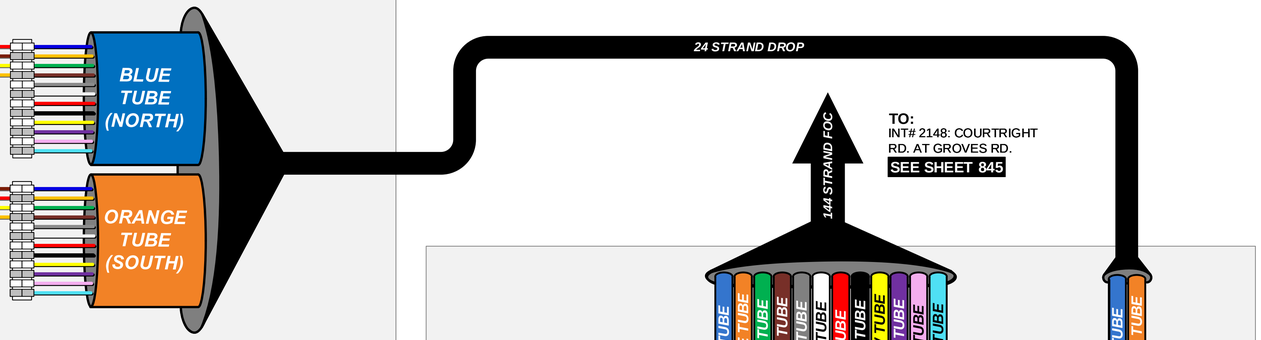




ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 2147: COURTRIGHT RD. AT ROSWELL DR.
SEE SHEET 846

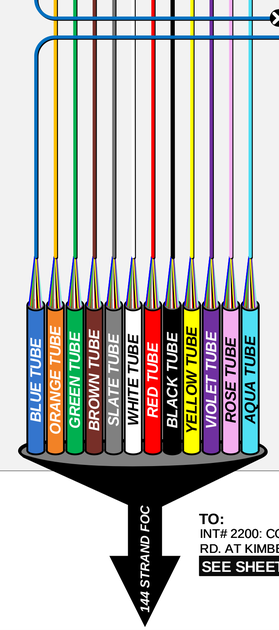
PORT 6: INT# 2149: ASKINS RD. / COURTRIGHT RD. AT REFUGEE RD.
SEE SHEET 842



PATCH PANEL ENCLOSURE – 24 TERMINATION

3 Cable Entries
24 Fusion Splices
11 Buffer Tubes Passed Through Unspliced

CLAMSHELL, 288 FUSION SPLICE, AERIAL SPLICE ENCLOSURE



TO:
INT# 2200: COURTRIGHT RD. AT KIMBERLY PKWY.
SEE SHEET 843

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- LH/ZX (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 2117

REFER TO SHEET 243 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 631 FOR COMM OVERVIEW DETAILS

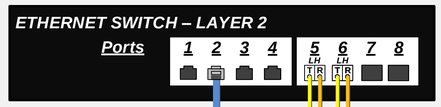
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PID NUMBER: 99733

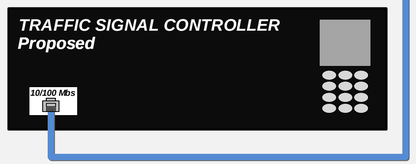
INT# 2117: COURTRIGHT RD. AT PETZINGER RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

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TRAFFIC SIGNAL CABINET ASSEMBLY

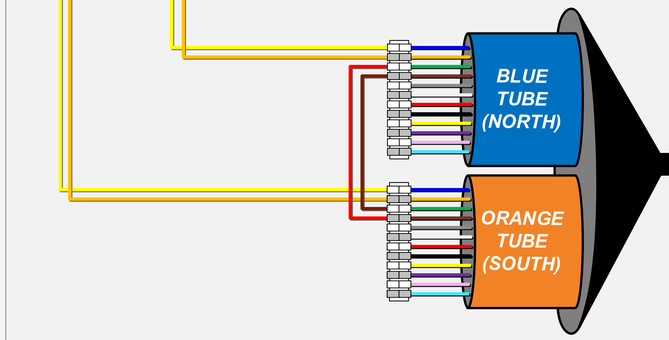




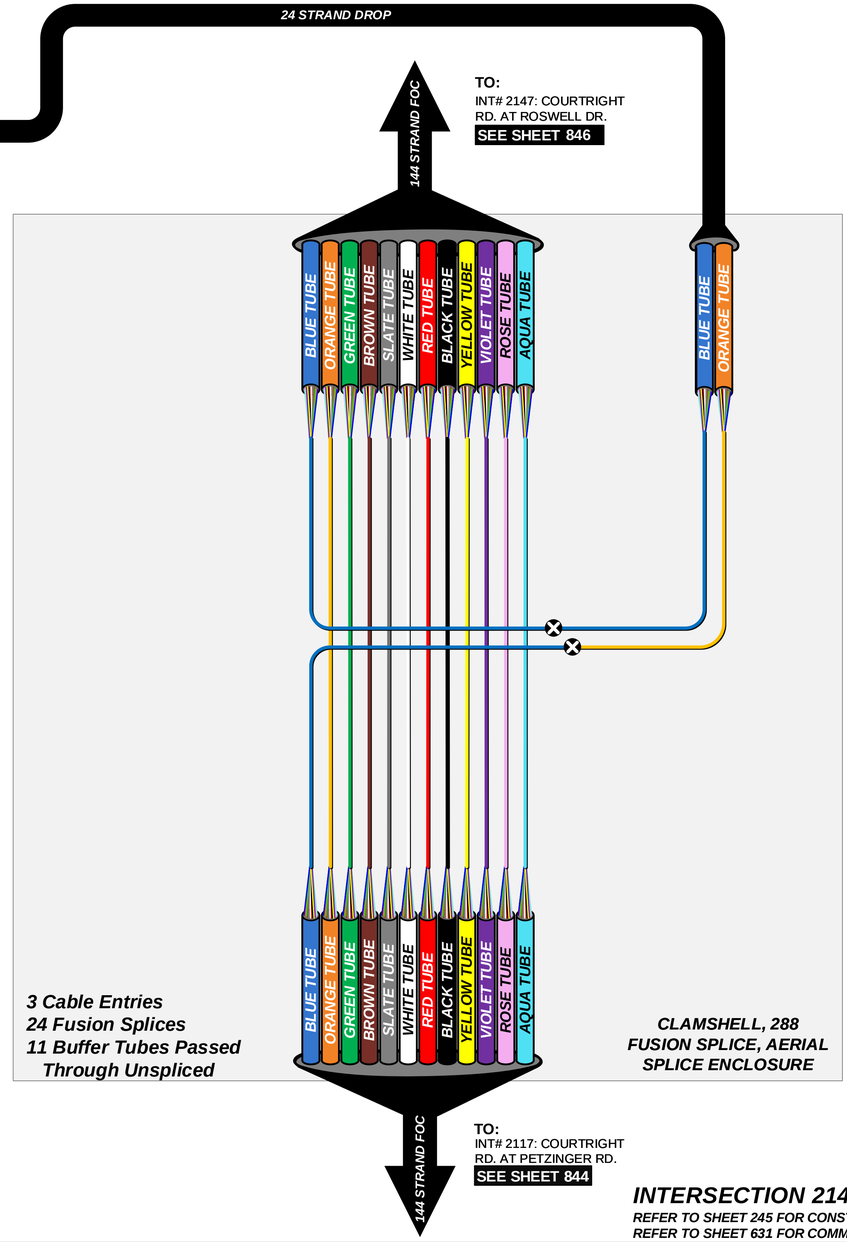
ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 2147: COURTRIGHT RD. AT ROSWELL DR.
SEE SHEET 846

PORT 6: INT# 2200: COURTRIGHT RD. AT KIMBERLY PKWY.
SEE SHEET 843



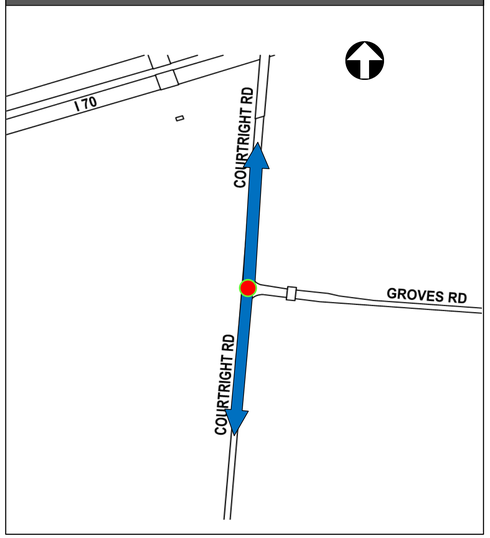
PATCH PANEL ENCLOSURE – 24 TERMINATION



LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- LH/ZX (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 2148

REFER TO SHEET 245 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 631 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100012
PID NUMBER: 99733

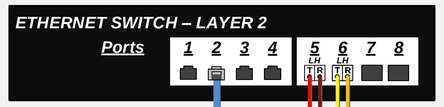
INT# 2148: COURTRIGHT RD. AT GROVES RD.
COMMUNICATIONS DIAGRAM

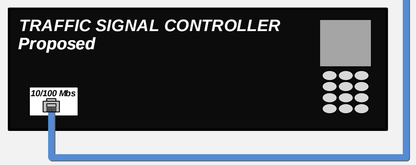
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

845
915

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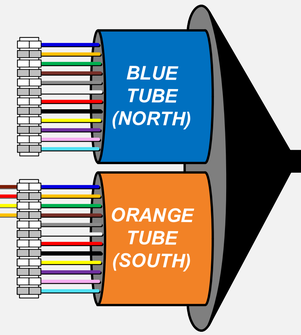




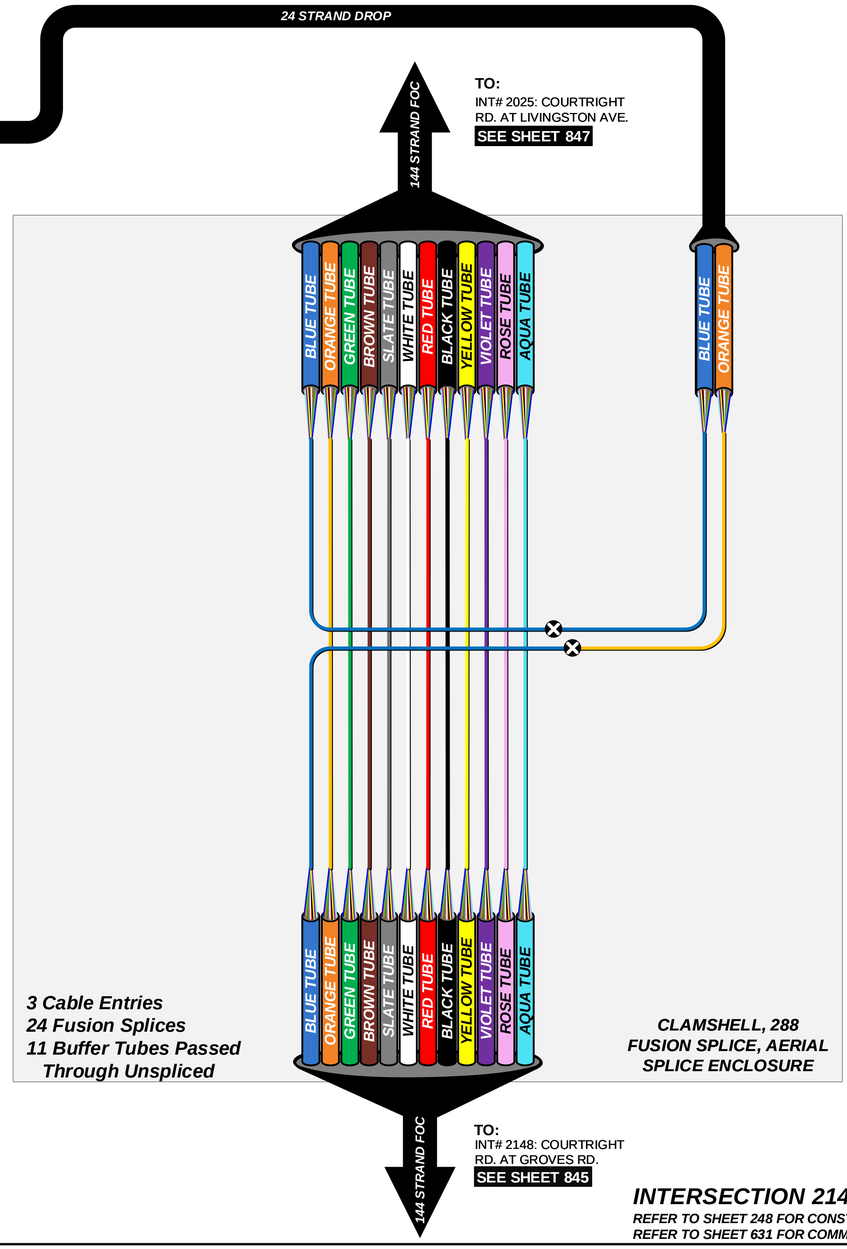
ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 2148: COURTRIGHT RD. AT GROVES RD.
SEE SHEET 845

PORT 6: INT# 2117: COURTRIGHT RD. AT PETZINGER RD.
SEE SHEET 844



PATCH PANEL ENCLOSURE – 24 TERMINATION



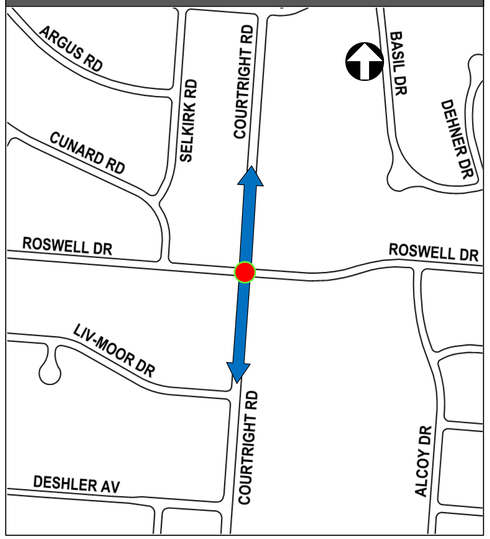
3 Cable Entries
24 Fusion Splices
11 Buffer Tubes Passed Through Unspliced

CLAMSHELL, 288 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- LH/ZX (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 2147

REFER TO SHEET 248 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 631 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100012
PID NUMBER: 99733

INT# 2147: COURTRIGHT RD. AT ROSWELL DR.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

846
915

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TRAFFIC SIGNAL CABINET ASSEMBLY

EXISTING ETHERNET SWITCH – LAYER 2

Ports: 1 2 3 4 5 6 7 8 (5 LH T/R, 6 LH T/R)

TRAFFIC SIGNAL CONTROLLER

Ex. Econolite ASC/3-2100

Ethernet Module — 10/100 Mbs

ETHERNET SWITCH PORT DESTINATION

PORT 5: EXISTING CONNECTION TO INT# 2027: LIVINGSTON AVE. AT YEARLING RD.

PORT 6: EXISTING CONNECTION TO INT# 2022: LIVINGSTON AVE. AT ZETTLER RD.

EXISTING PATCH PANEL ENCLOSURE – 24 TERMINATION

BLUE TUBE (EAST)

ORANGE TUBE (WEST)

BLUE TUBE (SPARE)

ORANGE TUBE (SOUTH)

PATCH PANEL ENCLOSURE – 24 TERMINATION

24 STRAND DROP

EXISTING 24 STRAND DROP

BLUE TUBE / ORANGE TUBE

BLUE TUBE / ORANGE TUBE

BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE
RED TUBE
BLACK TUBE
YELLOW TUBE
VIOLET TUBE
ROSE TUBE
AQUA TUBE

EXISTING 144 STRAND FOC

TO:
EXISTING CONNECTION TO INT# 2023: BARNETT RD. AT LIVINGSTON AVE.

EXISTING 144 STRAND FOC

TO:
EXISTING CONNECTION TO INT# 2926: BEECHWOOD RD. AT LIVINGSTON AVE.

BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE
RED TUBE
BLACK TUBE
YELLOW TUBE
VIOLET TUBE
ROSE TUBE
AQUA TUBE

144 STRAND FOC

TO:
INT# 2147: COURTRIGHT RD. AT ROSWELL DR.
SEE SHEET 846

5 Cable Entries
204 Proposed Fusion Splices
228 Total Fusion Splices
2 Coiled Buffer Tubes

EXISTING SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- LH/ZX (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 2025

REFER TO SHEET 249 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 631 FOR COMM OVERVIEW DETAILS

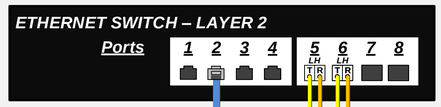
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PID NUMBER: 99733

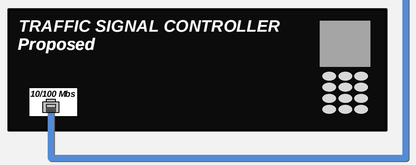
INT# 2025: COURTRIGHT RD. AT LIVINGSTON AVE.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

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TRAFFIC SIGNAL CABINET ASSEMBLY

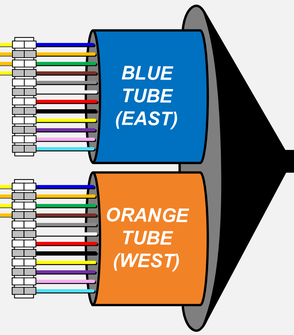


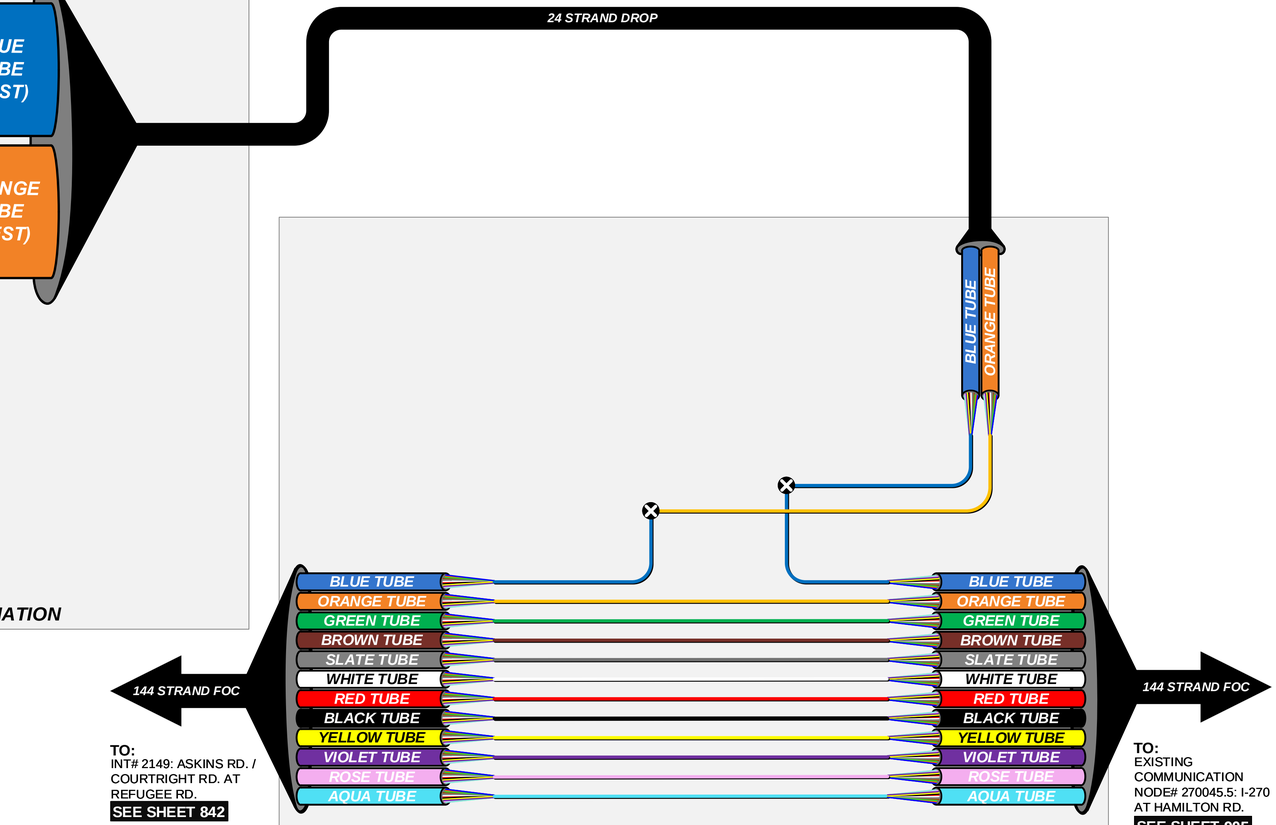


ETHERNET SWITCH PORT DESTINATION

PORT 5: EXISTING COMMUNICATION NODE# 270045.5: I-270 AT HAMILTON RD.
SEE SHEET 905

PORT 6: INT# 2140: REFUGEE RD. AT WINCHESTER PIKE
SEE SHEET 841





TO:
INT# 2149: ASKINS RD. / COURTRIGHT RD. AT REFUGEE RD.
SEE SHEET 842

TO:
EXISTING COMMUNICATION NODE# 270045.5: I-270 AT HAMILTON RD.
SEE SHEET 905

3 Cable Entries
24 Fusion Splices
11 Buffer Tubes Passed Through Unspliced

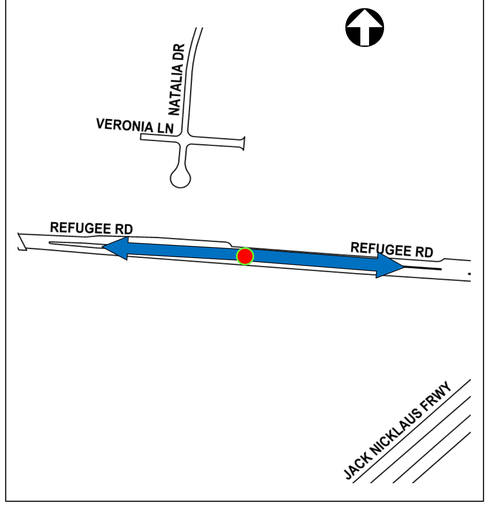
CLAMSHELL, 288 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE

PATCH PANEL ENCLOSURE – 24 TERMINATION

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- LH/ZX (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 2159
REFER TO SHEET 202 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 630 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100012
PID NUMBER: 99733

INT# 2159: EASTLAND FIVE AT REFUGEE RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

848
915

J:\Jobs\63721 CTSS Phase E\TECH\PROD\Communications\Intersection Splicing Details\842-856.vsd - 2159 layout ~ last saved by: skoganti 9/13/2018 5:35:09 PM ~ printed: 9/13/2018 5:35:09 PM

TRAFFIC SIGNAL CABINET ASSEMBLY

EXISTING ETHERNET SWITCH – LAYER 2

Ports 1 2 3 4 5 6 7 8

ETHERNET SWITCH PORT DESTINATION

PORT 3: TMC AT 77 N. FRONT ST.

TRAFFIC SIGNAL CONTROLLER

Ex. Econolite ASC/3-2100

Ethernet Module

10/100 Mbs

Proposed

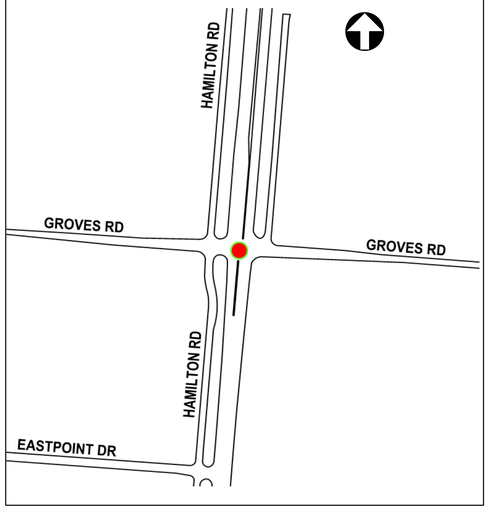
CELLULAR ETHRENET MODEM

EXISTING PATCH PANEL ENCLOSURE – 24 TERMINATION

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- *LH/ZX* (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 2153

REFER TO SHEET 233 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 631 FOR COMM OVERVIEW DETAILS

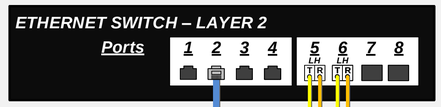
CIP: 540007 - 100012
PID NUMBER: 99733

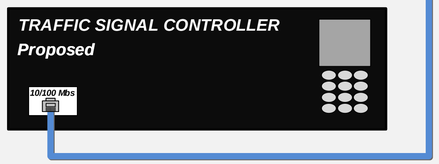
INT# 2153: GROVES RD. AT HAMILTON RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

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TRAFFIC SIGNAL CABINET ASSEMBLY

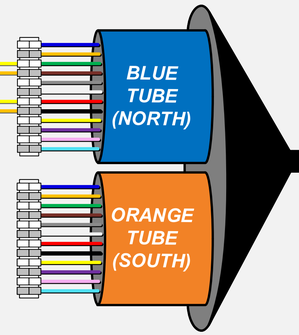




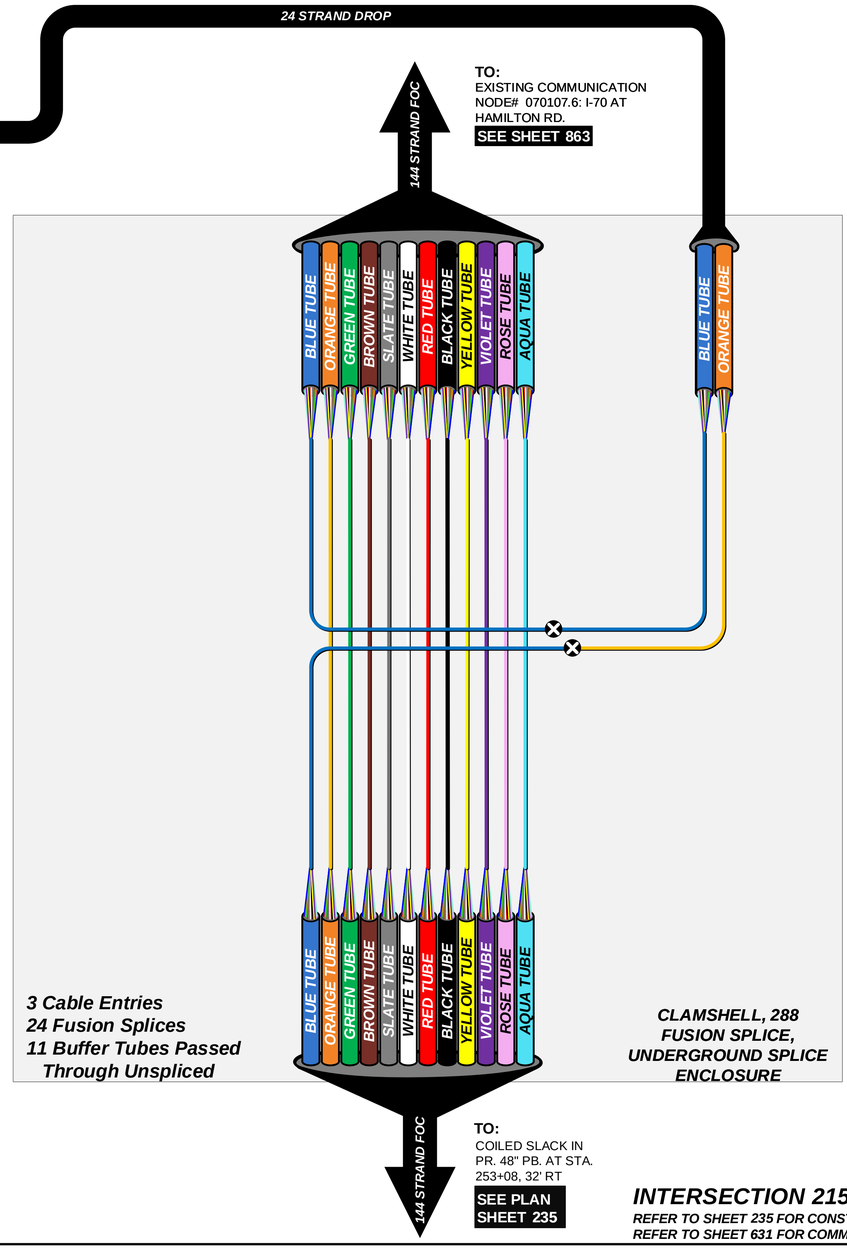
ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 2150: DUNDEE AVE. AT HAMILTON RD.
SEE SHEET 852

PORT 6: EXISTING COMMUNICATION NODE# 070107.6: I-70 AT HAMILTON RD.
SEE SHEET 862



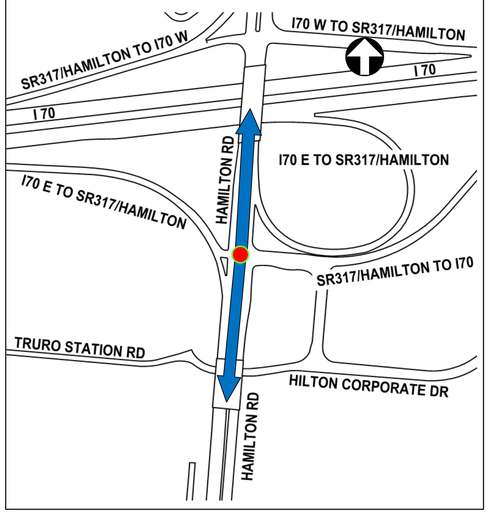
PATCH PANEL ENCLOSURE – 24 TERMINATION



LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- LH/ZX (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 2151

REFER TO SHEET 235 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 631 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100012
PID NUMBER: 99733

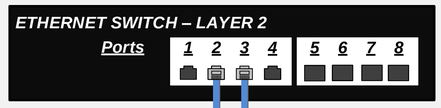
INT# 2151: HAMILTON RD. AT I-70 EB
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

850
915

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TRAFFIC SIGNAL CABINET ASSEMBLY

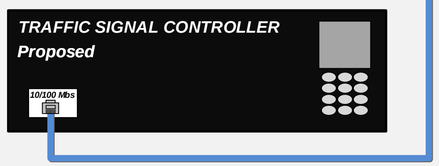


ETHERNET SWITCH PORT DESTINATION

PORT 3: EXISTING COMMUNICATION NODE# 070107.6: I-70 AT HAMILTON RD.

SEE SHEET 862

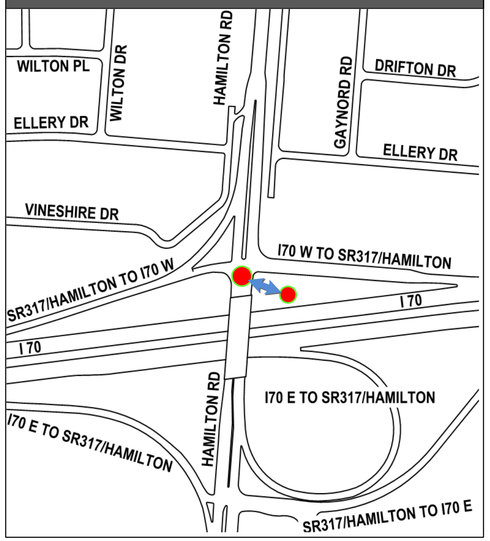
TO:
EXISTING COMMUNICATION NODE# 070107.6: I-70 AT HAMILTON RD.
SEE SHEET 863



LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- *LH/ZX* GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 2152

REFER TO SHEET 236 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 631 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100012
PID NUMBER: 99733

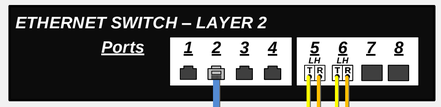
INT# 2152: HAMILTON RD. AT I-70 WB
COMMUNICATIONS DIAGRAM

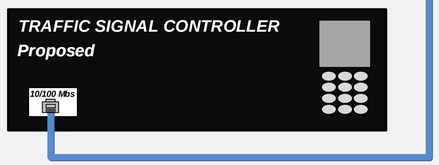
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

851
915

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TRAFFIC SIGNAL CABINET ASSEMBLY

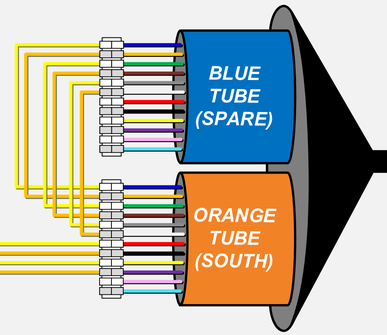




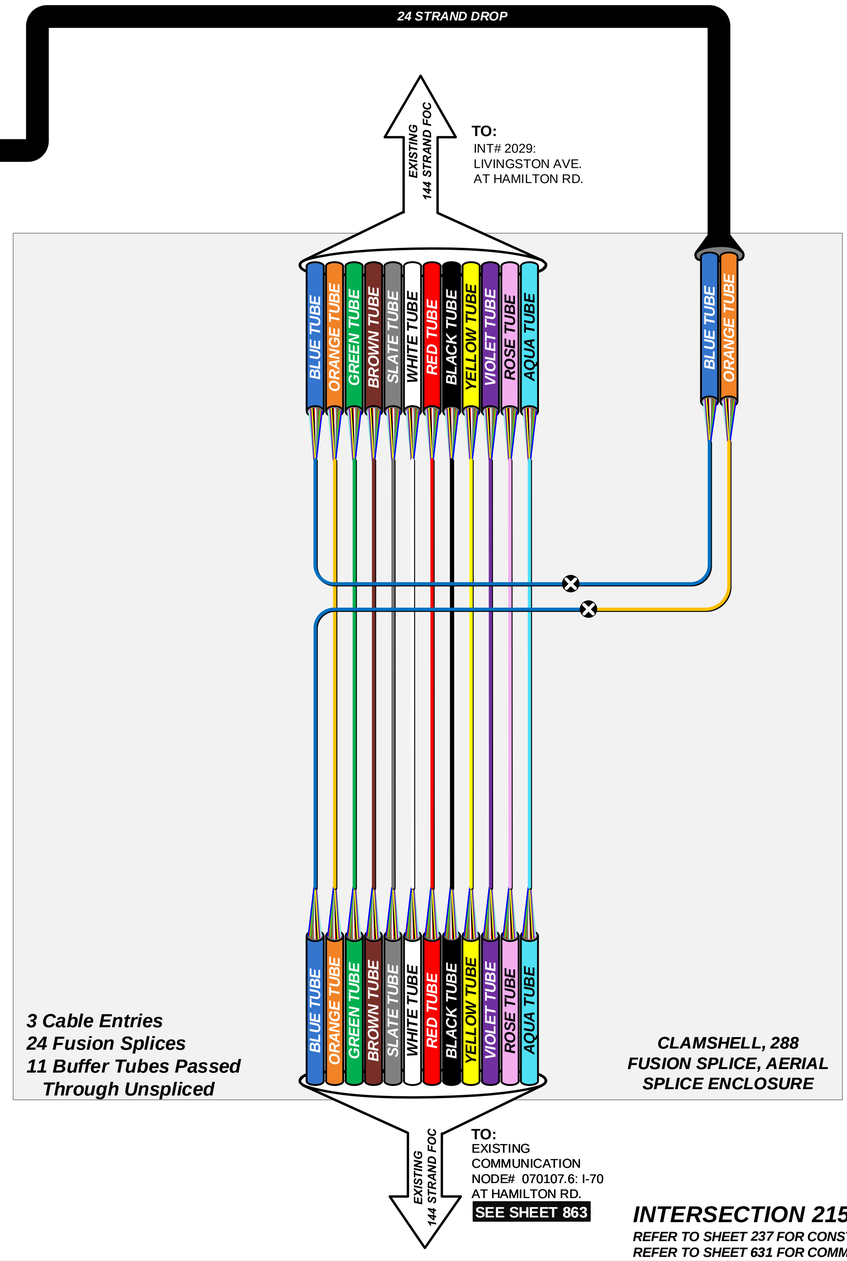
ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 2151: HAMILTON RD. AT I-70 EB
SEE SHEET 850

PORT 6: EXISTING COMMUNICATION NODE# 070107.6:
I-70 AT HAMILTON RD.
SEE SHEET 862



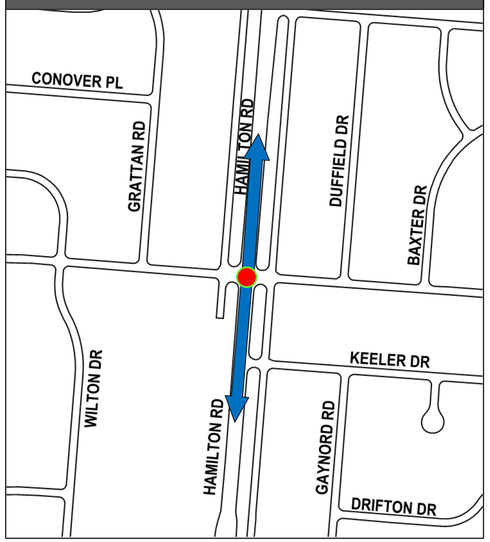
PATCH PANEL ENCLOSURE – 24 TERMINATION



LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 2150

REFER TO SHEET 237 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 631 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100012
PID NUMBER: 99733

INT# 2150: DUNDEE AVE. AT HAMILTON RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

852
915

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TRAFFIC SIGNAL CABINET ASSEMBLY

EXISTING ETHERNET SWITCH – LAYER 2

Ports: 1 2 3 4 5 6 7 8 (5 6: LH T/R)

TRAFFIC SIGNAL CONTROLLER
Ex. Econolite ASC/3-2100

Ethernet Module
10/100 Mbs

ETHERNET SWITCH PORT DESTINATION

PORT 5: EXISTING CONNECTION TO INT# 2036: E MAIN ST. AT WILSON AVE.

PORT 6: EXISTING CONNECTION TO INT# 2033: E MAIN ST. AT EIGHTEENTH ST.

EXISTING PATCH PANEL ENCLOSURE - 24 TERMINATION

- BLUE TUBE (EAST)
- ORANGE TUBE (WEST)
- BLUE TUBE (SPARE)
- ORANGE TUBE (SOUTH)

PATCH PANEL ENCLOSURE - 24 TERMINATION

24 STRAND DROP

EXISTING 24 STRAND DROP

BLUE TUBE / ORANGE TUBE

BLUE TUBE / ORANGE TUBE

EXISTING 144 STRAND FOC

BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE
RED TUBE
BLACK TUBE
YELLOW TUBE
VIOLET TUBE
ROSE TUBE
AQUA TUBE

TO:
INT# 2033: MAIN ST. AT EIGHTEENTH AVE.

EXISTING 144 STRAND FOC

TO:
EXISTING CONNECTION TO INT# 2035: CHAMPION AVE. AT E MAIN ST.
SEE SHEET 854

BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE
RED TUBE
BLACK TUBE
YELLOW TUBE
VIOLET TUBE
ROSE TUBE
AQUA TUBE

144 STRAND FOC

TO:
STRAIN POLE AT STA. 7+46, 27' RT
SEE PLAN SHEET 473

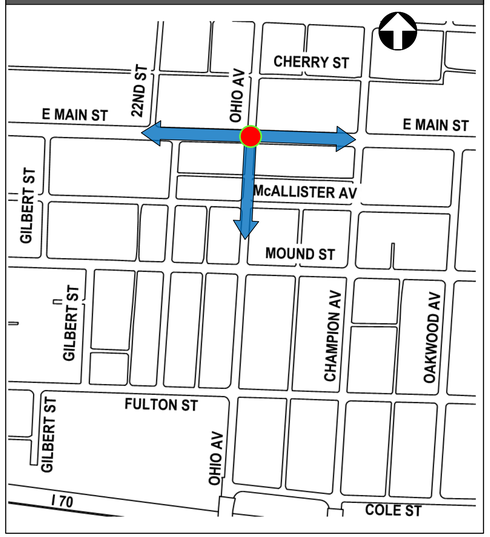
5 Cable Entries
204 Proposed Fusion Splices
228 Total Fusion Splices
2 Coiled Buffer Tubes

EXISTING SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- LH/ZX (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 2034

REFER TO SHEET 474 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 632 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100012
PID NUMBER: 99733

INT# 2034: MAIN ST. AT OHIO AVE.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

853
915

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TRAFFIC SIGNAL CABINET ASSEMBLY

EXISTING ETHERNET SWITCH – LAYER 2

Ports: 1 2 3 4 5 6 7 8 (5 LH T/R, 6 LH T/R)

TRAFFIC SIGNAL CONTROLLER
Ex. Econolite ASC/3-2100

Ethernet Module
10/100 Mbs

ETHERNET SWITCH PORT DESTINATION

PORT 5: EXISTING CONNECTION TO INT# 2037: MAIN ST. AT MILLER AVE.

PORT 6: EXISTING CONNECTION TO INT# 2033: MAIN ST. AT EIGHTEENTH ST.

EXISTING PATCH PANEL ENCLOSURE - 24 TERMINATION

BLUE TUBE (EAST)
ORANGE TUBE (WEST)
BLUE TUBE (SPARE)
ORANGE TUBE (SOUTH)

PATCH PANEL ENCLOSURE - 24 TERMINATION

EXISTING 24 STRAND DROP

24 STRAND DROP

BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE
RED TUBE
BLACK TUBE
YELLOW TUBE
VIOLET TUBE
ROSE TUBE
AQUA TUBE

EXISTING 144 STRAND FOC

TO:
INT# 2034: E MAIN ST. AT OHIO AVE.
SEE SHEET 853

EXISTING 144 STRAND FOC

TO:
INT# 2036: E MAIN ST. AT WILSON AVE.

144 STRAND FOC

TO:
STRAIN POLE AT STA. 7+50, 24' LT
SEE PLAN SHEET 476

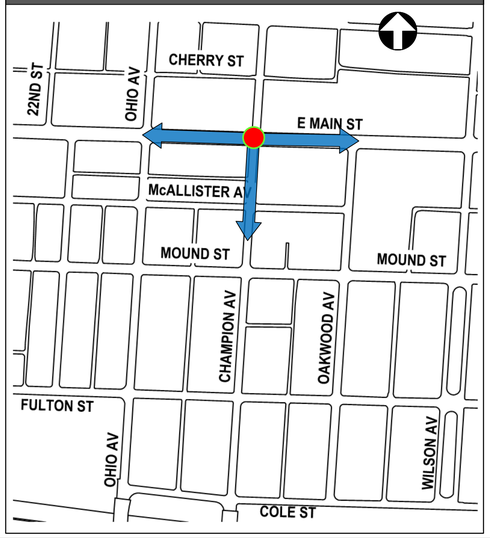
5 Cable Entries
204 Proposed Fusion Splices
228 Total Fusion Splices
2 Coiled Buffer Tubes

EXISTING SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- LH/ZX (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 2035

REFER TO SHEET 477 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 632 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100012
PID NUMBER: 99733

INT# 2035: CHAMPION AVE. AT MAIN ST.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

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TRAFFIC SIGNAL CABINET ASSEMBLY

EXISTING ETHERNET SWITCH – LAYER 2

Ports 1 2 3 4 5 6 7 8 (5 LH T/R, 6 LH T/R)

ETHERNET SWITCH PORT DESTINATION

PORT 3: EXISTING WIRELESS CONNECTION TO INT# 3306: KENNEDY RD. AT WAGGONER RD.

PORT 5: INT# 3263: E BROAD ST. AT MEIJER'S
SEE SHEET 857

PORT 6: INT# 3274: E BROAD ST. AT REYNOLDS CROSSING DR.
SEE SHEET 857

EXISTING WIRELESS LINK TO INT# 3306: KENNEDY RD. AT WAGGONER RD.

TRAFFIC SIGNAL CONTROLLER
Ex. Econolite ASC/3-2100

Ethernet Module
10/100 Mbs

BLUE TUBE (SPARE)

ORANGE TUBE (SOUTH)

24 STRAND DROP

PATCH PANEL ENCLOSURE - 24 TERMINATION

BLUE TUBE
ORANGE TUBE

BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE
RED TUBE
BLACK TUBE
YELLOW TUBE
VIOLET TUBE
ROSE TUBE
AQUA TUBE

144 STRAND FOC

2 Cable Entries
12 Fusion Splices
12 Coiled Buffer Tubes

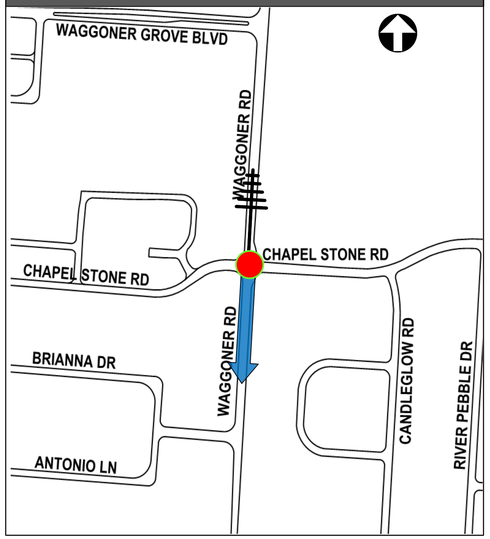
CLAMSHELL, 288 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE

TO:
INT# 3264: BROAD ST.
AT WAGGONER RD.
SEE SHEET 856

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- LH/ZX (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 3303
REFER TO SHEET 255 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 632 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100012
PID NUMBER: 99733

INT# 3303: CHAPEL STONE RD. AT WAGGONER RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

855
915

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TRAFFIC SIGNAL CABINET ASSEMBLY

EXISTING ETHERNET SWITCH – LAYER 2

Ports: 1 2 3 4 5 6 7 8 (5 LH T/R, 6 LH T/R)

TRAFFIC SIGNAL CONTROLLER
Ex. Econolite ASC/3-2100

Ethernet Module 10/100 Mbs

EXISTING CCTV CABINET

EXISTING CCTV FIELD BOX
- VIDEO/PTZ IP DATA
- CCTV/HEATER POWER
- 10/100 Mbs
- ANALOG VIDEO

ETHERNET SWITCH PORT DESTINATION

PORT 1: EXISTING WIRELESS LINK TO REPEATER R-02: WAGGONER RD. AT WAGGONER RD. SCHOOL

PORT 5: EXISTING CONNECTION TO INT# 3279: E BROAD ST. AT CEDAR CLIFF

PORT 6: EXISTING CONNECTION TO INT# 3083: E BROAD ST. AT REYNOLDSBURG NEW ALBANY RD.

EXISTING COMPOSITE CCTV CABLE

EXISTING PATCH PANEL ENCLOSURE - 24 TERMINATION

- BLUE TUBE (EAST)
- ORANGE TUBE (WEST)
- BLUE TUBE (NORTH)
- ORANGE TUBE (SPARE)

PATCH PANEL ENCLOSURE - 24 TERMINATION

EXISTING CCTV

EXISTING WIRELESS LINK TO REPEATER R-02: WAGGONER RD. AT WAGGONER RD. SCHOOL

24 STRAND DROP

EXISTING 24 STRAND DROP

144 STRAND FOC

TO:
INT# 3303: CHAPEL STONE RD. AT WAGGONER RD.
SEE SHEET 855

BLUE TUBE, ORANGE TUBE, GREEN TUBE, BROWN TUBE, SLATE TUBE, WHITE TUBE, RED TUBE, BLACK TUBE, YELLOW TUBE, VIOLET TUBE, ROSE TUBE, AQUA TUBE

BLUE TUBE, ORANGE TUBE

BLUE TUBE, ORANGE TUBE

BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE
RED TUBE
BLACK TUBE
YELOW TUBE
VIOLET TUBE
ROSE TUBE
AQUA TUBE

EXISTING 144 STRAND FOC

TO:
INT# 3274: E BROAD ST. AT REYNOLDS CROSSING DR

EXISTING 144 STRAND FOC

TO:
INT# 3263: E BROAD ST. AT MEIJER'S

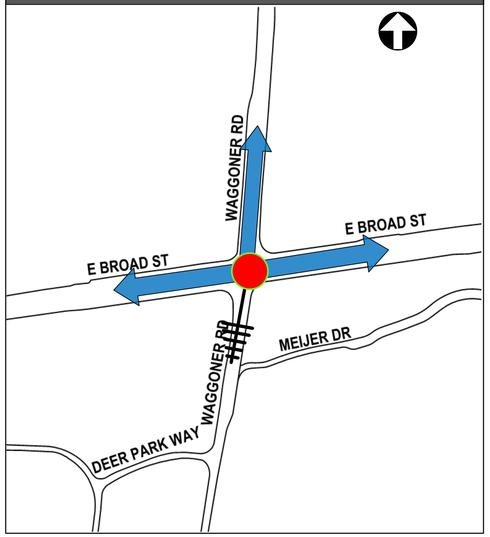
5 Cable Entries
204 Proposed Fusion Splices
228 Total Fusion Splices
2 Coiled Buffer Tubes

CLAMSHELL, 288 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- LH/ZX (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 3264

REFER TO SHEET 251 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 632 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100012
PID NUMBER: 99733

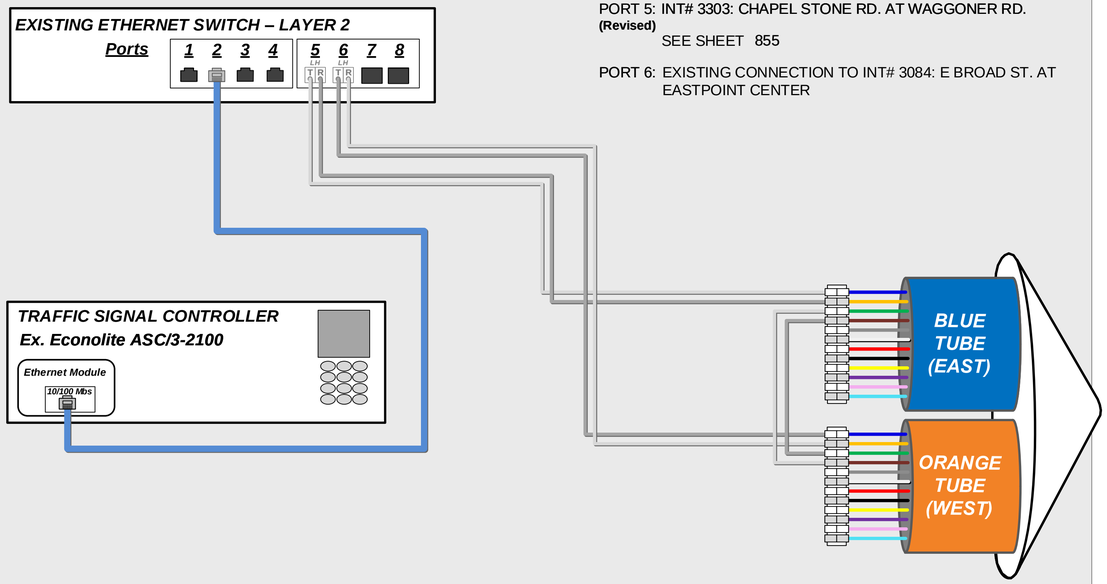
INT# 3264: BROAD ST. AT WAGGONER RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

856
915

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TRAFFIC SIGNAL CABINET ASSEMBLY



REVISED ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 3303: CHAPEL STONE RD. AT WAGGONER RD.
(Revised) SEE SHEET 855

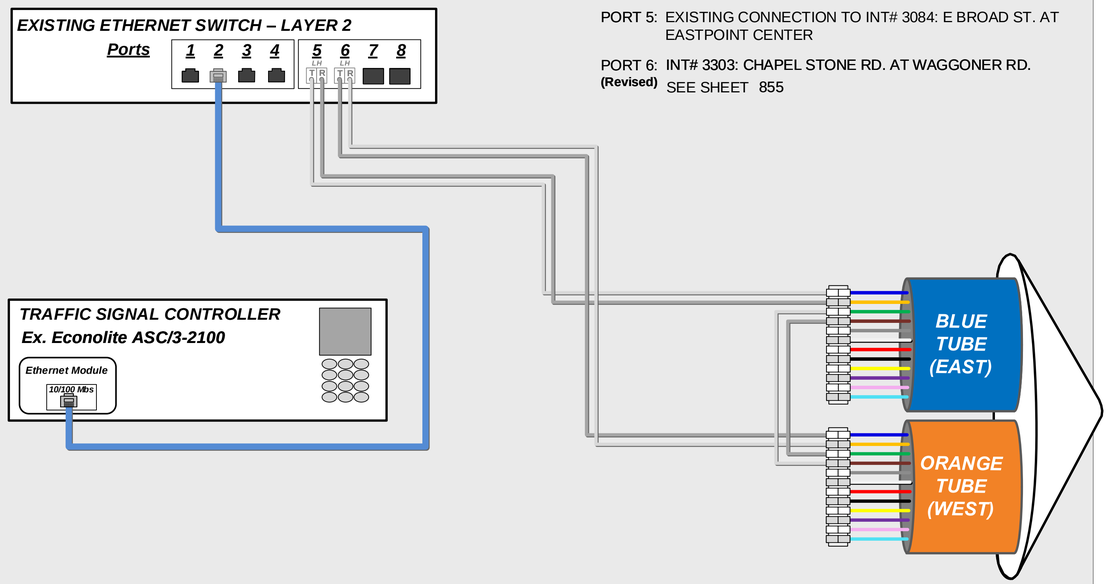
PORT 6: EXISTING CONNECTION TO INT# 3084: E BROAD ST. AT EASTPOINT CENTER

INTERSECTION 3274

E BROAD ST. AT REYNOLDS CROSSING DR.
REFER TO SHEET 632 FOR COMM OVERVIEW DETAILS

EXISTING PATCH PANEL ENCLOSURE – 24 TERMINATION

TRAFFIC SIGNAL CABINET ASSEMBLY



REVISED ETHERNET SWITCH PORT DESTINATION

PORT 5: EXISTING CONNECTION TO INT# 3084: E BROAD ST. AT EASTPOINT CENTER

PORT 6: INT# 3303: CHAPEL STONE RD. AT WAGGONER RD.
(Revised) SEE SHEET 855

INTERSECTION 3263

E BROAD ST. AT MEIJER'S
REFER TO SHEET 632 FOR COMM OVERVIEW DETAILS

EXISTING PATCH PANEL ENCLOSURE – 24 TERMINATION

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- *LH/ZX* GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

CIP: 540007 - 100012
PID NUMBER: 99733

INTS 3274 AND 3263 PATCH PANELS
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

857
915

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TRAFFIC SIGNAL CABINET ASSEMBLY

EXISTING ETHERNET SWITCH – LAYER 2

Ports: 1 2 3 4 5 6 7 8 (5 LH T/R, 6 LH T/R)

TRAFFIC SIGNAL CONTROLLER
Ex. Econolite ASC/3-2100

Ethernet Module
10/100 Mbs

ETHERNET SWITCH PORT DESTINATION

PORT 5: EXISTING CONNECTION TO INT# 0090: FRONT ST. AT LIVINGSTON AVE.

PORT 6: EXISTING CONNECTION TO INT# 1077: GREENLAWN AVE. AT I-71 NB RAMPS

BLUE TUBE (NORTH)

ORANGE TUBE (SOUTH)

EXISTING 24 STRAND DROP

EXISTING PATCH PANEL ENCLOSURE - 24 TERMINATION

BLUE TUBE

ORANGE TUBE

144SMF CABLE NORTH FRONT ST TRUNK

TO:
SPLICE ENCLOSURE AT FRONT ST. AND WHITTIER ST.

9 Cable Entries
468 Proposed Fusion Splices
10 Coiled Buffer Tubes

24SMF CABLE EAST GREENLAWN AVE TRUNK

TO:
INT# 2058: GREENLAWN AVE./THURMAN AVE. AT HIGH ST.

144SMF CABLE WEST GREENLAWN AVE TRUNK

TO:
INT# 1078:
DECKENBACH RD. AT GREENLAWN AVE.
SEE SHEET 837

144SMF DROP CABLE CTSS (WEST & NORTH)

144SMF DROP CABLE CTSS (EAST & SOUTH)

144SMF DROP CABLE DoT (WEST & NORTH)

144SMF DROP CABLE DoT (SOUTH)

144SMF CABLE SOUTH HIGH ST TRUNK

TO:
INT# 2059: HIGH ST. AT MOLER ST.

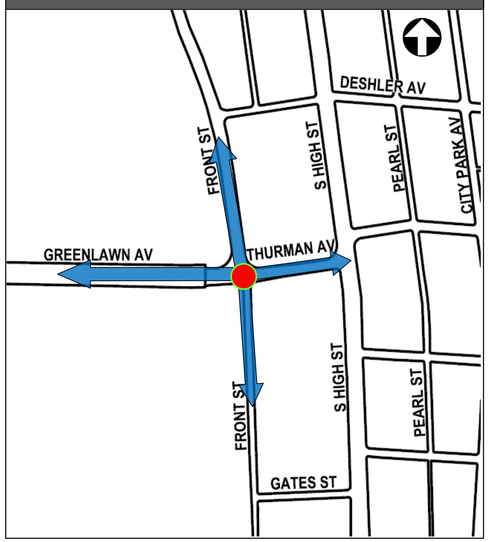
EXISTING SPLICE ENCLOSURE

MATCHLINE A - SEE SHEET 859

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- LH/ZX (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



NOTES

REMOVE EXISTING FUSION SPLICES AND RESPLICES BUFFER TUBES AS SHOWN IN THE DIAGRAM ABOVE.

INTERSECTION 2054

REFER TO SHEET 465 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 632 FOR COMM OVERVIEW DETAILS

CIP: 540007 - 100012
PID NUMBER: 99733

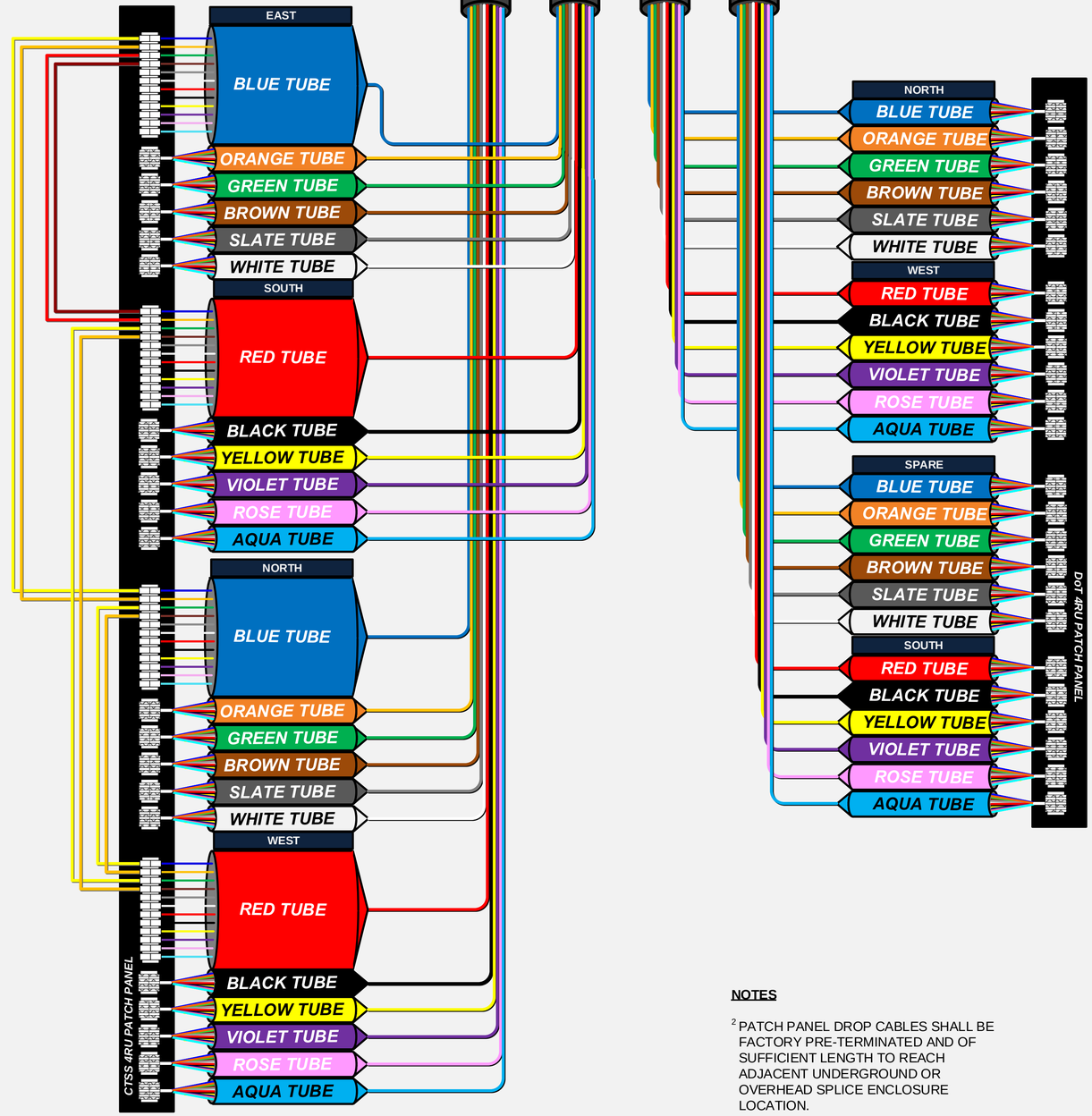
INT# 2054: FRONT ST. AT GREENLAWN AVE.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

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MATCHLINE A - SEE SHEET 858

COMMUNICATION NODE
FIBER TERMINATION CABINET (#1)



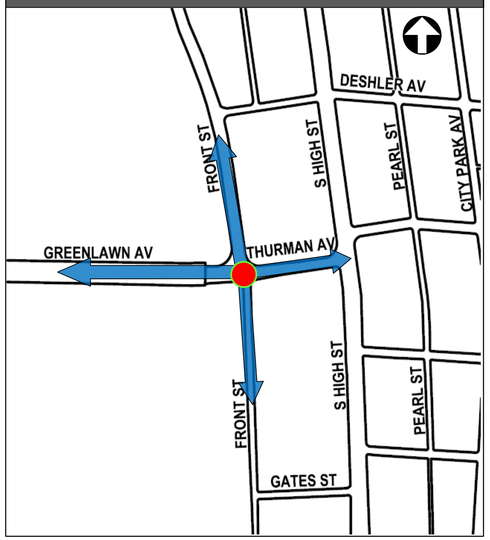
NOTES

[2] PATCH PANEL DROP CABLES SHALL BE FACTORY PRE-TERMINATED AND OF SUFFICIENT LENGTH TO REACH ADJACENT UNDERGROUND OR OVERHEAD SPLICE ENCLOSURE LOCATION.

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – 6 FIBERS/ SINGLE FIBER
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- INTERSECTION LOCATION
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 2054

REFER TO SHEET 465 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 632 FOR COMM OVERVIEW DETAILS

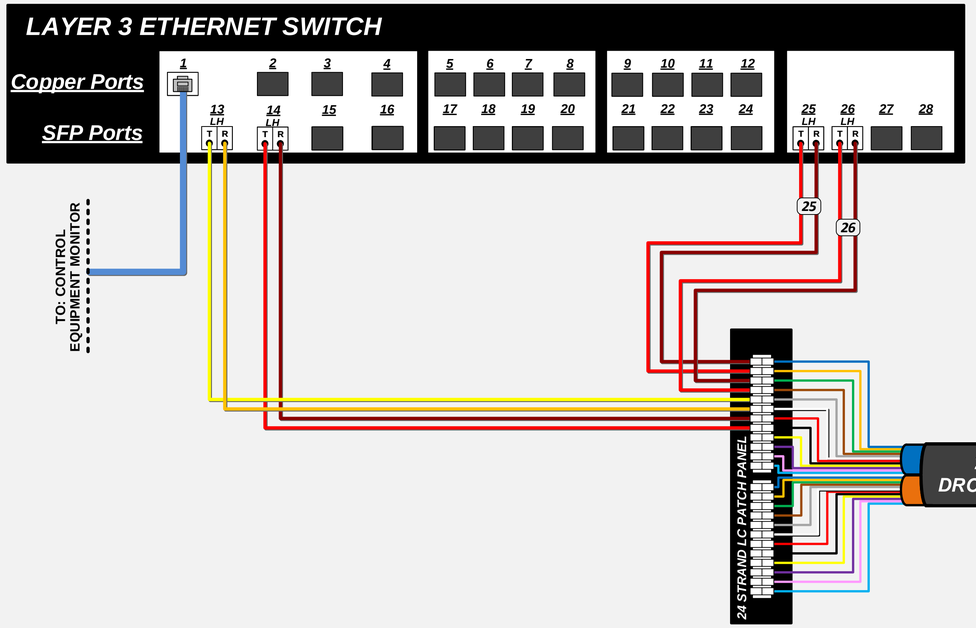
CIP: 540007 - 100012
PID NUMBER: 99733

INT# 2054: FRONT ST. AT GREENLAWN AVE.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

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COMMUNICATION NODE EQUIPMENT CABINET (#2)



ETHERNET SWITCH PORT DESTINATION

PORT 25: EXISTING COMMUNICATION NODE# 270008.7: I-270 AT I-70
SEE SHEET 880

PORT 26: EXISTING COMMUNICATION NODE# 270010.5: I-270 AT ROBERTS RD.
SEE SHEET 883

PORT 13: INT# 4140: HILLIARD ROME RD. AT RENNER RD.
SEE SHEET 640

PORT 14: INT# 4266: HILLIARD ROME RD. AT I-70 WB
SEE SHEET 647

LEGEND

EQUIPMENT CABLE

- FIBER PATCH CABLES Tx/Tx
- CAT 5E CABLE
- FIBER PATCH CABLES Tx/Rx CROSSOVER
- EXISTING FIBER PATCH CABLES

INTERCONNECT CABLE

- 288 STRAND SMF CABLE
- CITYNET SMF CABLE
- 144 STRAND SMF CABLE
- D.O.T. SMF CABLE
- COLUMBUS FIBERNET SMF CABLE

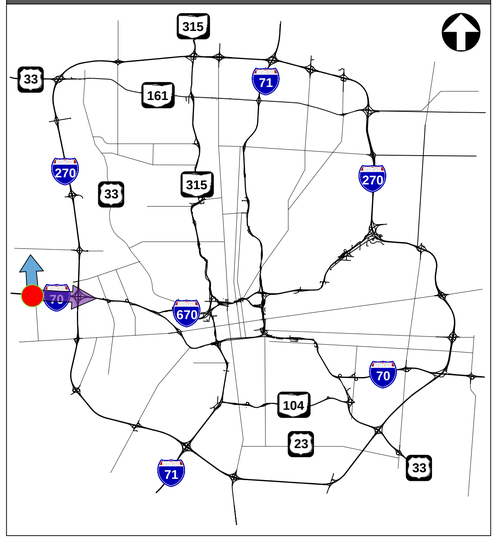
FIBER SPLICING (DARK/LIGHT – PROPOSED/EXISTING)

- FUSION SPLICE – 12 FIBER BUFFER TUBE
- FUSION SPLICE – PARTIAL BUFFER TUBE
- FUSION SPLICE – SINGLE FIBER
- COILED FIBER OR BUFFER TUBE

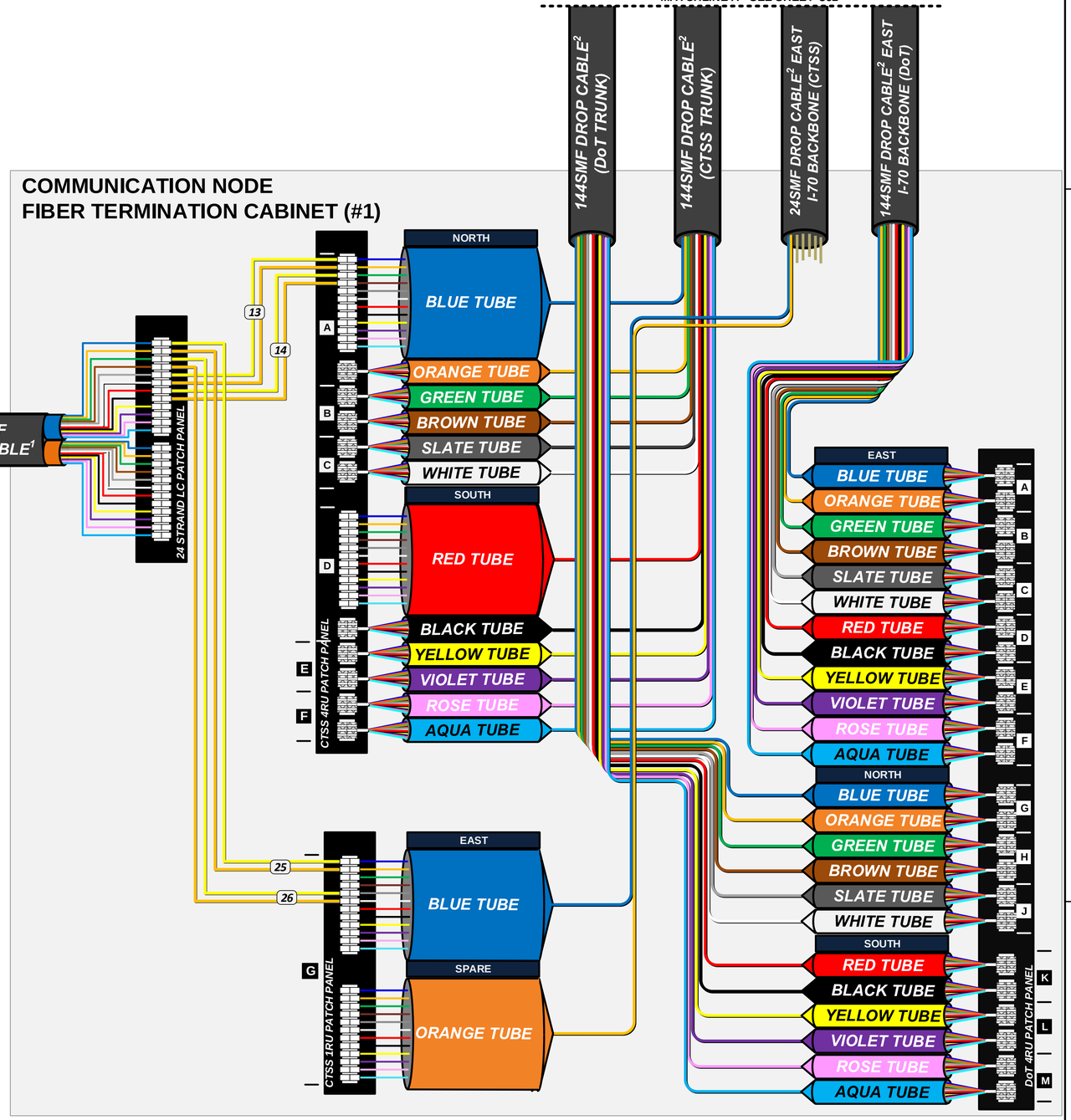
EQUIPMENT AND TERMINATION CABINET

- LH/ZX LH/ZX — GBIC OPTICAL TRANSCEIVER; LH - SHORT HAUL; ZX – LONG HAUL
- 8P8C CONNECTOR
- EMPTY SFP MODULE BAY
- LC TERMINATION – SINGLE FIBER
- LC TERMINATION – 12 FIBER BUFFER TUBE
- WIRELESS ETHERNET RADIO

KEY PLAN



COMMUNICATION NODE FIBER TERMINATION CABINET (#1)



NOTES

[1] PRE-TERMINATED 24SMF CABLE INSTALLED IN 4" CONDUIT CONNECTING CABINETS.

[2] PATCH PANEL DROP CABLES SHALL BE FACTORY PRE-TERMINATED AND OF SUFFICIENT LENGTH TO REACH ADJACENT UNDERGROUND OR OVERHEAD ENCLOSURE SPLICE LOCATION.

COMMUNICATION NODE 070091.2

REFER TO SHEET 563 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 611 FOR COMM OVERVIEW DETAILS

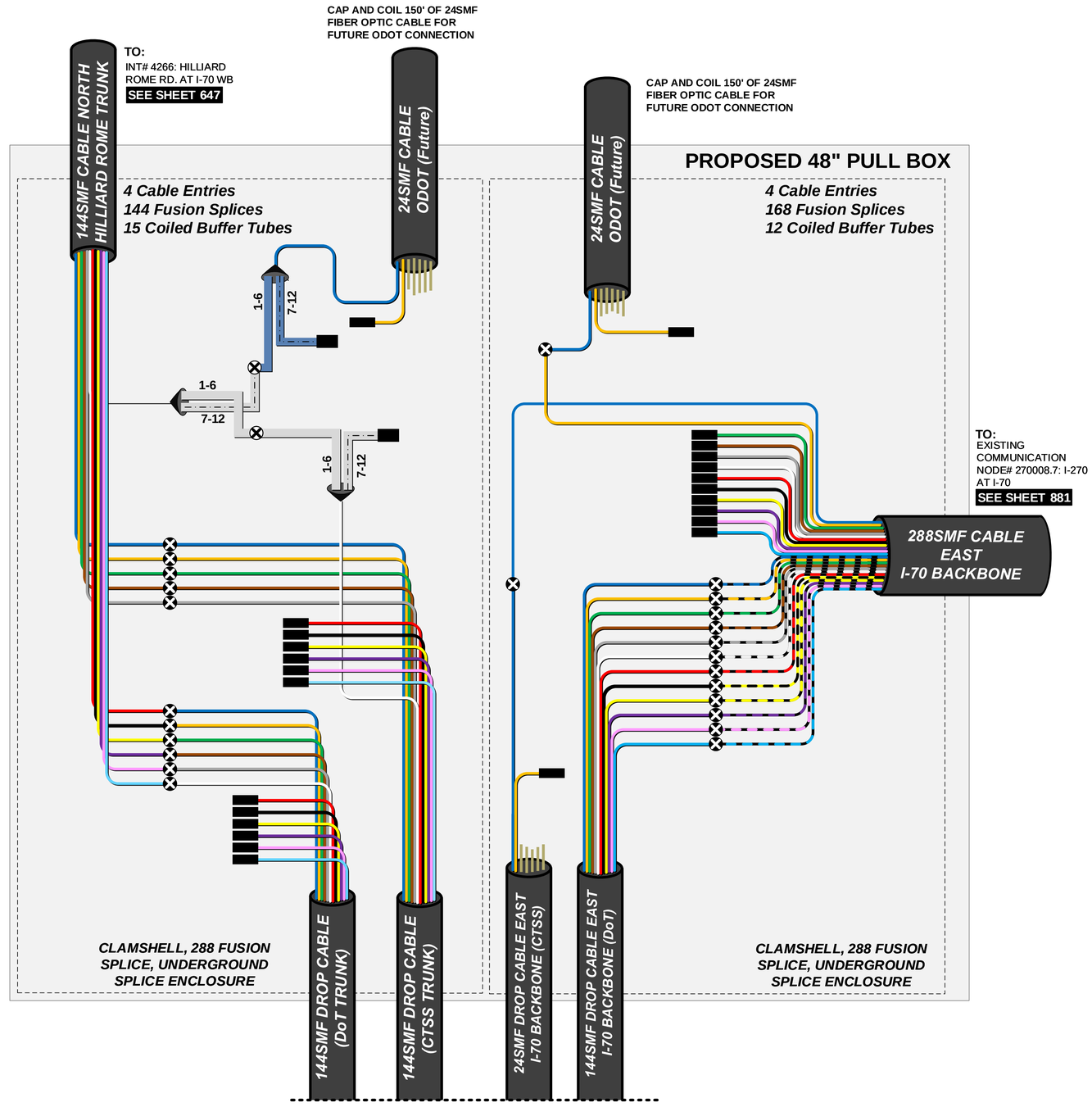
CIP: 540007 – 100012
PID NUMBER: 99733

PROPOSED COMMUNICATION NODE# 070091.2: I-70 AT HILLIARD ROME RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

860
915

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LEGEND

EQUIPMENT CABLE

- FIBER PATCH CABLES Tx/Tx
- FIBER PATCH CABLES Tx/Rx CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE

INTERCONNECT CABLE

- 288 STRAND SMF CABLE
- 144 STRAND SMF CABLE
- COLUMBUS FIBERNET SMF CABLE
- CITYNET SMF CABLE
- D.O.T. SMF CABLE

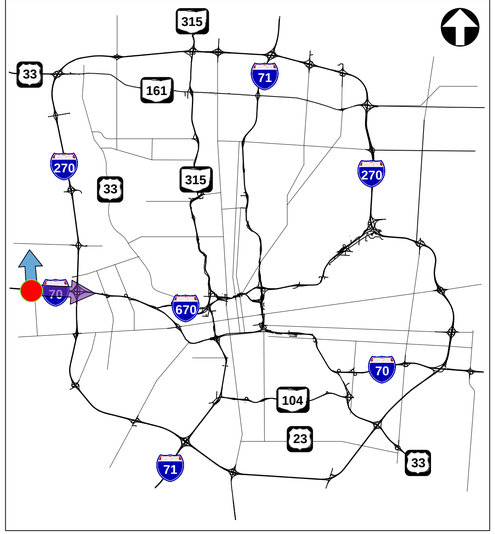
FIBER SPLICING (DARK/LIGHT – PROPOSED/EXISTING)

- FUSION SPLICE – 12 FIBER BUFFER TUBE
- FUSION SPLICE – PARTIAL BUFFER TUBE
- FUSION SPLICE – SINGLE FIBER
- COILED FIBER OR BUFFER TUBE

EQUIPMENT AND TERMINATION CABINET

- LH/ZX LH/ZX — GBIC OPTICAL TRANSCEIVER; LH - SHORT HAUL; ZX – LONG HAUL
- 8P8C CONNECTOR
- EMPTY SFP MODULE BAY
- LC TERMINATION – SINGLE FIBER
- LC TERMINATION – 12 FIBER BUFFER TUBE
- WIRELESS ETHERNET RADIO

KEY PLAN



COMMUNICATION NODE 070091.2

REFER TO SHEET 563 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 611 FOR COMM OVERVIEW DETAILS

CIP: 540007 – 100012
PID NUMBER: 99733

PROPOSED COMMUNICATION NODE# 070091.2: I-70 AT HILLIARD ROME RD.
FIBER OPTIC SPLICING DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

861
915

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COMMUNICATION NODE EQUIPMENT CABINET (#2)

LAYER 3 ETHERNET SWITCH

Copper Ports 1 2 3 4 5 6 7 8 9 10 11 12

SFP Ports 13 LH 14 LH 15 LH 16 LH 17 LH 18 LH 19 20 21 22 23 24 25 LH 26 LH 27 LH 28 LH

TO: CONTROL EQUIPMENT MONITOR

EXISTING CCTV CABINET

CCTV FIELD BOX

VIDEO/PTZ IP DATA

CCTV/HEATER POWER

10/100 Mbs

ANALOG VIDEO

EXISTING CCTV

EXISTING COMPOSITE CCTV CABLE

MATCHLINE B - SEE SHEET 863

144SMF DROP CABLE (DoT TRUNK)

144SMF DROP CABLE (CTSS TRUNK)

24SMF DROP CABLE I-70 BACKBONE (CTSS)

144SMF DROP CABLE WEST I-70 BACKBONE (DoT)

144SMF DROP CABLE EAST I-70 BACKBONE (DoT)

24SMF DROP CABLE

24 STRAND LC PATCH PANEL

CTSS 4RU PATCH PANEL

DoT 4RU PATCH PANEL

CTSS 1RU PATCH PANEL

NORTH: BLUE TUBE, ORANGE TUBE, GREEN TUBE, BROWN TUBE, SLATE TUBE, WHITE TUBE

SOUTH: RED TUBE, BLACK TUBE, YELLOW TUBE, VIOLET TUBE, ROSE TUBE, AQUA TUBE

EAST: BLUE TUBE, ORANGE TUBE, GREEN TUBE, BROWN TUBE, SLATE TUBE, WHITE TUBE, RED TUBE, BLACK TUBE, YELLOW TUBE, VIOLET TUBE, ROSE TUBE, AQUA TUBE

WEST: BLUE TUBE, ORANGE TUBE, GREEN TUBE, BROWN TUBE, SLATE TUBE, WHITE TUBE, RED TUBE, BLACK TUBE, YELLOW TUBE, VIOLET TUBE, ROSE TUBE, AQUA TUBE

COMMUNICATION NODE FIBER TERMINATION CABINET (#1)

ETHERNET SWITCH PORT DESTINATION

PORT 25: EXISTING COMMUNICATION NODE# 270043.0: IR-270 AT IR-70

PORT 26: EXISTING COMMUNICATION NODE# 070109.9: I-70 AT BRICE RD.

PORT 27: EXISTING COMMUNICATION NODE# 070105.5: I-70 AT JAMES RD.

PORT 28: EXISTING COMMUNICATION NODE# 070105.5: I-70 AT JAMES RD.

PORT 13: INT# 2028: ELAINE RD. AT LIVINGSTON AVE.

PORT 14: INT# 2029: HAMILTON RD. AT LIVINGSTON AVE.

PORT 15: INT# 2030: LIVINGSTON AVE. AT SHADY LANE RD.

PORT 16: INT# 2150: DUNDEE AVE. AT HAMILTON RD. SEE SHEET 852

PORT 17: INT# 2151: HAMILTON RD. AT I-70 EB SEE SHEET 850

PORT 18: EXISTING COMMUNICATION NODE# 270045.5: I-270 AT HAMILTON RD. SEE SHEET 905

LEGEND

EQUIPMENT CABLE

- FIBER PATCH CABLES Tx/Tx
- CAT 5E CABLE
- FIBER PATCH CABLES Tx/Rx CROSSOVER
- EXISTING FIBER PATCH CABLES

INTERCONNECT CABLE

- 288 STRAND SMF CABLE
- CITYNET SMF CABLE
- 144 STRAND SMF CABLE
- D.O.T. SMF CABLE
- COLUMBUS FIBERNET SMF CABLE

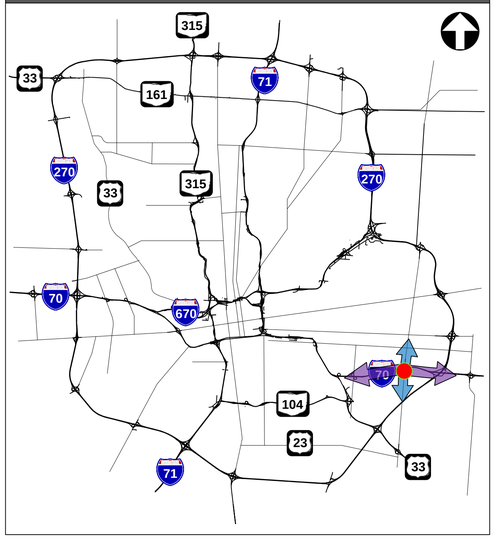
FIBER SPLICING (DARK/LIGHT – PROPOSED/EXISTING)

- FUSION SPLICE – 12 FIBER BUFFER TUBE
- FUSION SPLICE – PARTIAL BUFFER TUBE
- FUSION SPLICE – SINGLE FIBER
- COILED FIBER OR BUFFER TUBE

EQUIPMENT AND TERMINATION CABINET

- LH/ZX GBIC OPTICAL TRANSCEIVER (LH - SHORT HAUL, ZX – LONG HAUL)
- 8P8C CONNECTOR
- EMPTY SFP MODULE BAY
- LC TERMINATION – SINGLE FIBER
- LC TERMINATION – 12 FIBER BUFFER TUBE
- WIRELESS ETHERNET RADIO

KEY PLAN



COMMUNICATION NODE 070107.6

REFER TO SHEET 581 FOR CONSTRUCTION PLAN DETAILS

REFER TO SHEET 631 FOR COMM OVERVIEW DETAILS

CIP: 540007 – 100012

PID NUMBER: 99733

EXISTING COMMUNICATION NODE# 070107.6: I-70 AT HAMILTON RD.

COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM

(CTSS) PHASE E – FINAL SUBMITTAL

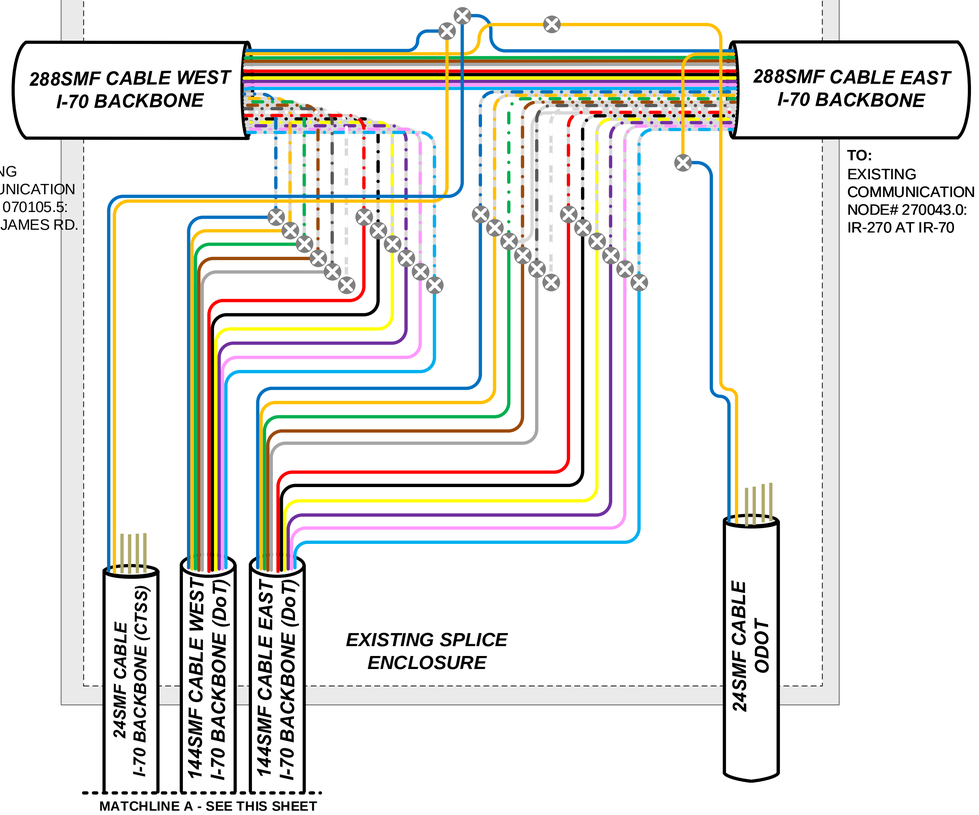
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915

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EXISTING 48" PULL BOX



LEGEND

EQUIPMENT CABLE

- FIBER PATCH CABLES Tx/Tx
- CAT 5E CABLE
- FIBER PATCH CABLES Tx/Rx CROSSOVER
- EXISTING FIBER PATCH CABLES

INTERCONNECT CABLE

- 288 STRAND SMF CABLE
- CITYNET SMF CABLE
- 144 STRAND SMF CABLE
- D.O.T. SMF CABLE
- COLUMBUS FIBERNET SMF CABLE

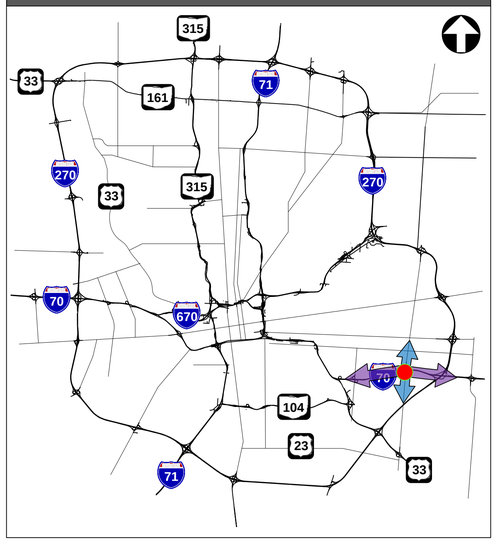
FIBER SPLICING (DARK/LIGHT – PROPOSED/EXISTING)

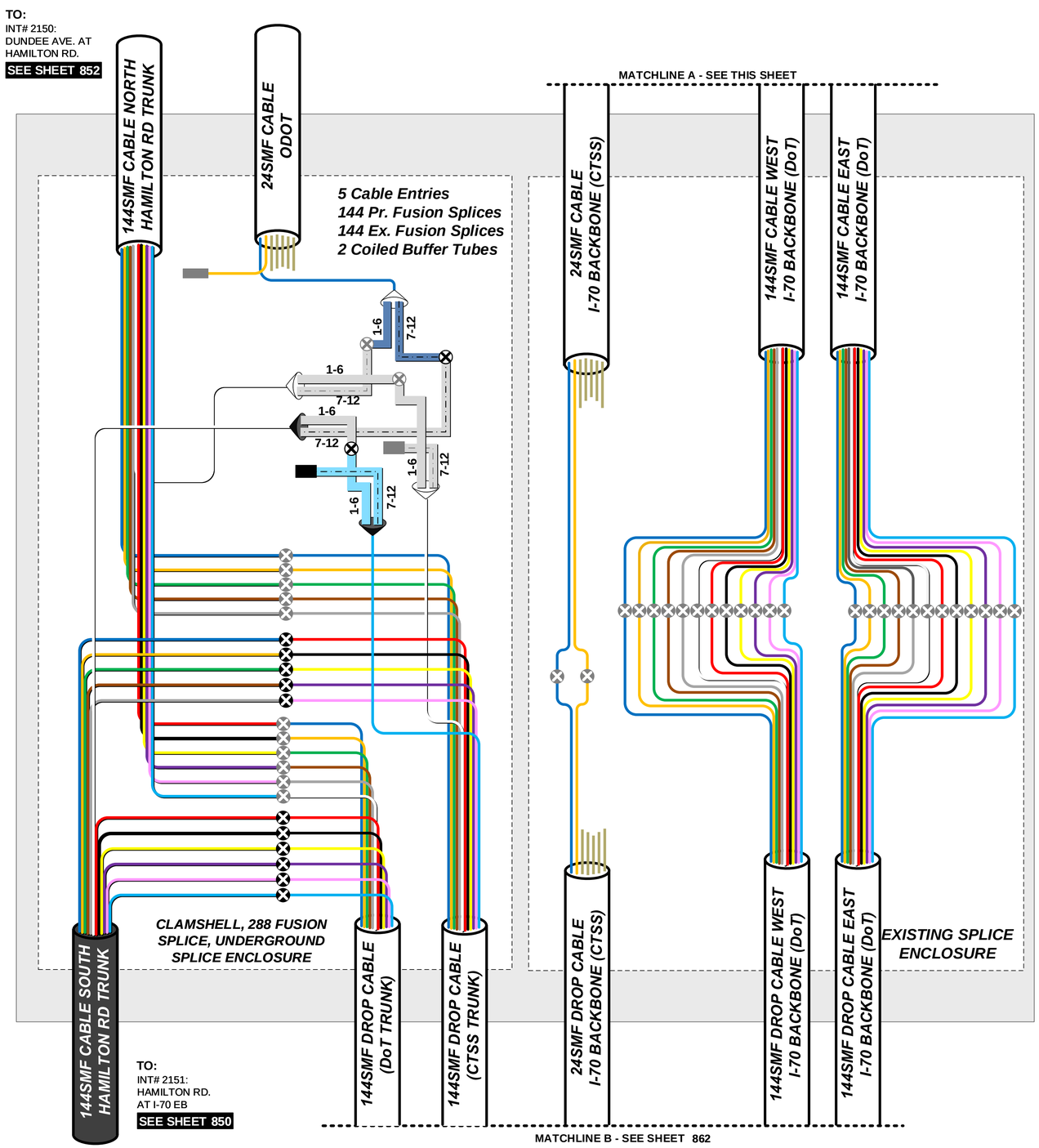
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- FUSION SPLICE – PARTIAL BUFFER TUBE
- FUSION SPLICE – SINGLE FIBER
- COILED FIBER OR BUFFER TUBE

EQUIPMENT AND TERMINATION CABINET

- LH/ZX LH/ZX — GBIC OPTICAL TRANSCEIVER
  LH - SHORT HAUL
  ZX – LONG HAUL
- 8P8C CONNECTOR
- EMPTY SFP MODULE BAY
- LC TERMINATION – SINGLE FIBER
- LC TERMINATION – 12 FIBER BUFFER TUBE
- WIRELESS ETHERNET RADIO

KEY PLAN





COMMUNICATION NODE 070107.6

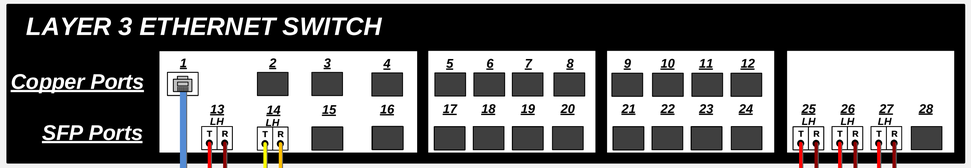
REFER TO SHEET 581 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 631 FOR COMM OVERVIEW DETAILS

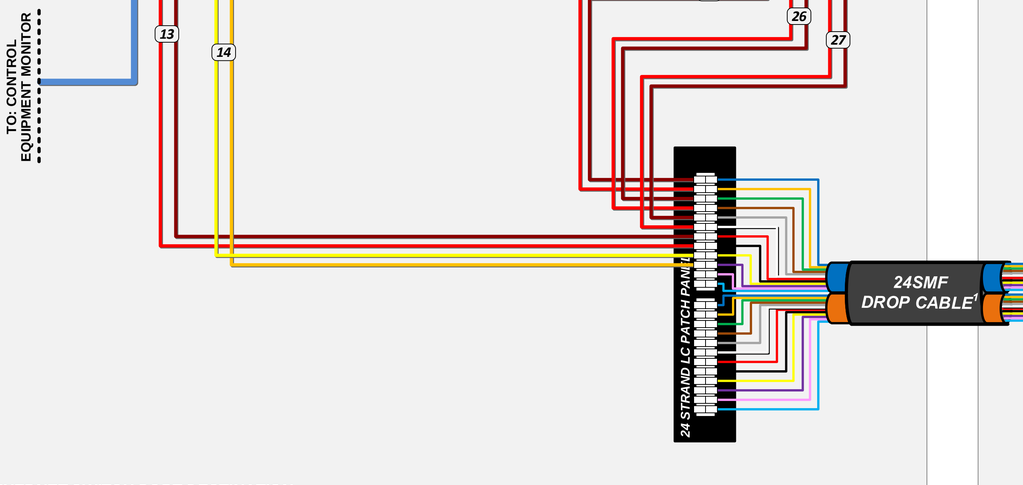
CIP: 540007 – 100012
PID NUMBER: 99733

EXISTING COMMUNICATION NODE# 070107.6: I-70 AT HAMILTON RD.
FIBER OPTIC SPLICING DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

COMMUNICATION NODE EQUIPMENT CABINET (#2)



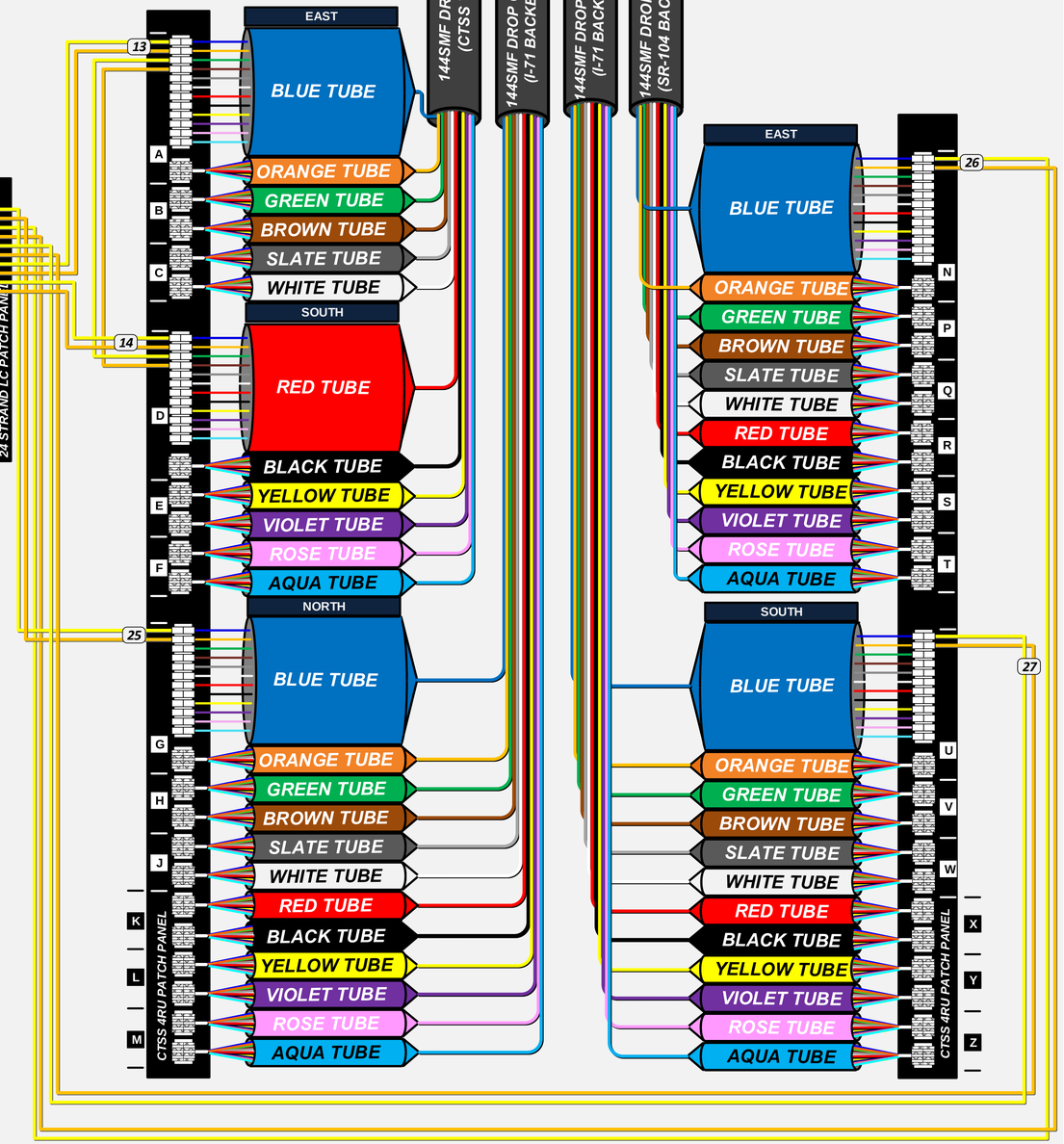


ETHERNET SWITCH PORT DESTINATION

PORT 25: PROPOSED COMMUNICATION NODE# 071105.4: GREENLAWN AVE. AT I-71
SEE SHEET 867
PORT 26: PROPOSED COMMUNICATION NODE# 104091.0: SR-104 AT US-23
SEE SHEET 874
PORT 27: EXISTING COMMUNICATION NODE# 270055.0: I-270 AT I-71
SEE SHEET 910
PORT 13: INT# 1069: FRANK RD. AT I-71 NB
SEE SHEET 839
PORT 14: INT# 1070: FRANK RD. AT I-71 SB
SEE SHEET 832

COMMUNICATION NODE FIBER TERMINATION CABINET (#1)

MATCHLINE A - SEE SHEET 866



LEGEND

EQUIPMENT CABLE

- FIBER PATCH CABLES Tx/Tx
- FIBER PATCH CABLES Tx/Rx CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE

INTERCONNECT CABLE

- 288 STRAND SMF CABLE
- 144 STRAND SMF CABLE
- COLUMBUS FIBERNET SMF CABLE
- CITYNET SMF CABLE
- D.O.T. SMF CABLE

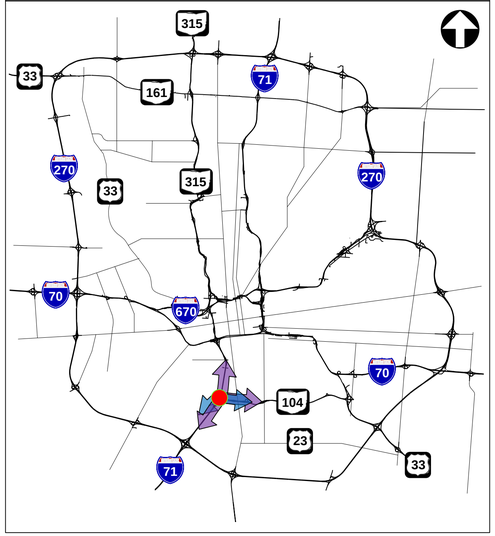
FIBER SPLICING (DARK/LIGHT – PROPOSED/EXISTING)

- FUSION SPLICE – 12 FIBER BUFFER TUBE
- FUSION SPLICE – PARTIAL BUFFER TUBE
- FUSION SPLICE – SINGLE FIBER
- COILED FIBER OR BUFFER TUBE

EQUIPMENT AND TERMINATION CABINET

- LH/ZX LH/ZX — GBIC OPTICAL TRANSCEIVER
  LH - SHORT HAUL
  ZX – LONG HAUL
- 8P8C CONNECTOR
- EMPTY SFP MODULE BAY
- LC TERMINATION – SINGLE FIBER
- LC TERMINATION – 12 FIBER BUFFER TUBE
- WIRELESS ETHERNET RADIO

KEY PLAN



NOTES

[1] PRE-TERMINATED 24SMF CABLE INSTALLED IN 4" CONDUIT CONNECTING CABINETS.

DoT TERMINATION PANELS SHOWN ON SHEET **865**

[2] PATCH PANEL DROP CABLES SHALL BE FACTORY PRE-TERMINATED AND OF SUFFICIENT LENGTH TO REACH ADJACENT UNDERGROUND OR OVERHEAD ENCLOSURE SPLICE LOCATION.

COMMUNICATION NODE 071104.0

REFER TO SHEET 571 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 629 FOR COMM OVERVIEW DETAILS

CIP: 540007 – 100012
PID NUMBER: 99733

PROPOSED COMMUNICATION NODE# 071104.0: SR-104 AT I-71
COMMUNICATIONS DIAGRAM

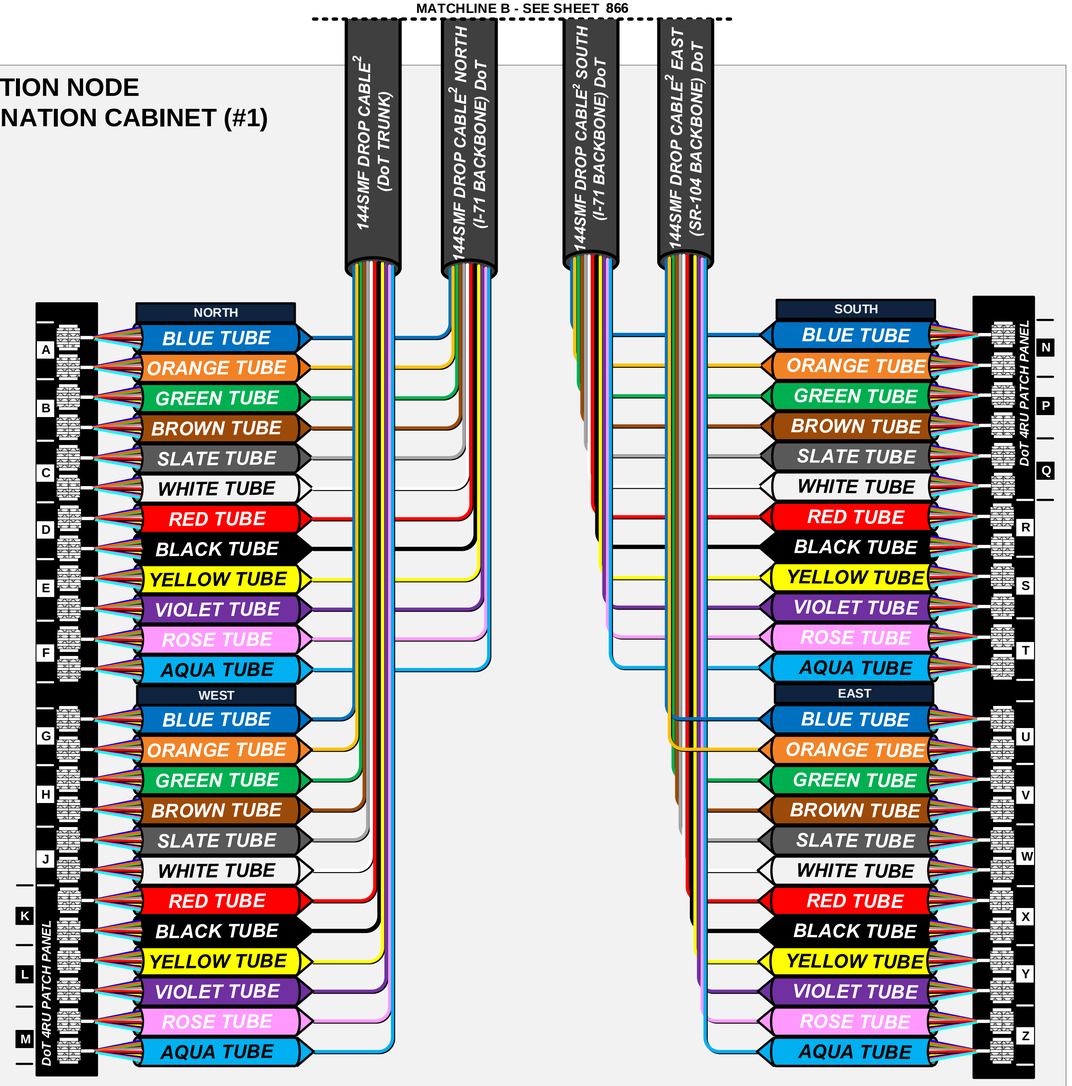
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

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MATCHLINE B - SEE SHEET 866

COMMUNICATION NODE
FIBER TERMINATION CABINET (#1)



LEGEND

EQUIPMENT CABLE

- FIBER PATCH CABLES Tx/Tx
- FIBER PATCH CABLES Tx/Rx CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE

INTERCONNECT CABLE

- 288 STRAND SMF CABLE
- 144 STRAND SMF CABLE
- COLUMBUS FIBERNET SMF CABLE
- CITYNET SMF CABLE
- D.O.T. SMF CABLE

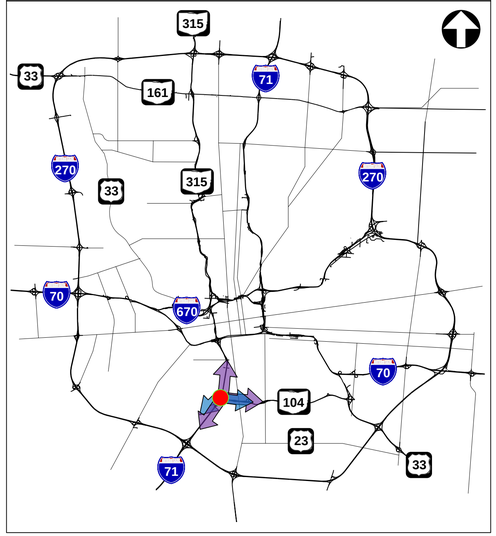
FIBER SPLICING (DARK/LIGHT – PROPOSED/EXISTING)

- FUSION SPLICE – 12 FIBER BUFFER TUBE
- FUSION SPLICE – PARTIAL BUFFER TUBE
- FUSION SPLICE – SINGLE FIBER
- COILED FIBER OR BUFFER TUBE

EQUIPMENT AND TERMINATION CABINET

- *LH/ZX* GBIC OPTICAL TRANSCEIVER — LH - SHORT HAUL; ZX – LONG HAUL
- 8P8C CONNECTOR
- EMPTY SFP MODULE BAY
- LC TERMINATION – SINGLE FIBER
- LC TERMINATION – 12 FIBER BUFFER TUBE
- WIRELESS ETHERNET RADIO

KEY PLAN



NOTES

CTSS TERMINATION PANELS SHOWN ON SHEET **864**

[2] PATCH PANEL DROP CABLES SHALL BE FACTORY PRE-TERMINATED AND OF SUFFICIENT LENGTH TO REACH ADJACENT UNDERGROUND OR OVERHEAD ENCLOSURE SPLICE LOCATION.

COMMUNICATION NODE 071104.0

REFER TO SHEET 571 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 629 FOR COMM OVERVIEW DETAILS

CIP: 540007 – 100012
PID NUMBER: 99733

PROPOSED COMMUNICATION NODE# 071104.0: SR-104 AT I-71
FIBER OPTIC SPLICING DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

MATCHLINE A - SEE SHEET 864

MATCHLINE B - SEE SHEET 865

144SMF DROP CABLE (CTSS TRUNK)

144SMF DROP CABLE NORTH (I-71 BACKBONE) CTSS

144SMF DROP CABLE SOUTH (I-71 BACKBONE) CTSS

144SMF DROP CABLE EAST (SR-104 BACKBONE) CTSS

144SMF DROP CABLE (DoT TRUNK)

CAP AND COIL 150' OF 24SMF FIBER OPTIC CABLE FOR FUTURE ODOT CONNECTION

24SMF CABLE ODOT

288SMF CABLE NORTH I-71 BACKBONE

TO: PROPOSED COMMUNICATION NODE# 071105.4: GREENLAWN AVE. AT I-71 SEE SHEET 868

144SMF DROP CABLE NORTH (I-71 BACKBONE) DoT

144SMF DROP CABLE SOUTH (I-71 BACKBONE) DoT

144SMF DROP CABLE EAST (SR-104 BACKBONE) DoT

PROPOSED 48" PULL BOX

CLAMSHELL, 288 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE[1]

CAP AND COIL 150' OF 24SMF FIBER OPTIC CABLE FOR FUTURE ODOT CONNECTION

24SMF CABLE ODOT (Future)

5 Cable Entries
288 Fusion Splices
3 Coiled Buffer Tubes

1-6
7-12

CLAMSHELL, 288 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE

144SMF CABLE EAST SR-104 TRUNK

CLAMSHELL, 288 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE[1]

TO: PROPOSED COMMUNICATION NODE# 104091.0: SR-104 AT US-23 SEE SHEET 875

288SMF CABLE EAST SR-104 BACKBONE

CAP AND COIL 150' OF 24SMF FIBER OPTIC CABLE FOR FUTURE ODOT CONNECTION

24SMF CABLE ODOT

CLAMSHELL, 288 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE[1]

TO: INT# 1080: FRANK RD. AT HARMON AVE. SEE SHEET 833

144SMF CABLE SOUTH FRANK RD TRUNK

288SMF CABLE SOUTH I-71 BACKBONE

24SMF CABLE ODOT

CAP AND COIL 150' OF 24SMF FIBER OPTIC CABLE FOR FUTURE ODOT CONNECTION

TO: INT# 1069: FRANK RD. AT I-71 NB SEE SHEET 839

TO: EXISTING COMMUNICATION NODE# 270055.0: I-270 AT I-71 SEE SHEET 911

LEGEND

EQUIPMENT CABLE

- FIBER PATCH CABLES Tx/Tx
- CAT 5E CABLE
- FIBER PATCH CABLES Tx/Rx CROSSOVER
- EXISTING FIBER PATCH CABLES

INTERCONNECT CABLE

- 288 STRAND SMF CABLE
- CITYNET SMF CABLE
- 144 STRAND SMF CABLE
- D.O.T. SMF CABLE
- COLUMBUS FIBERNET SMF CABLE

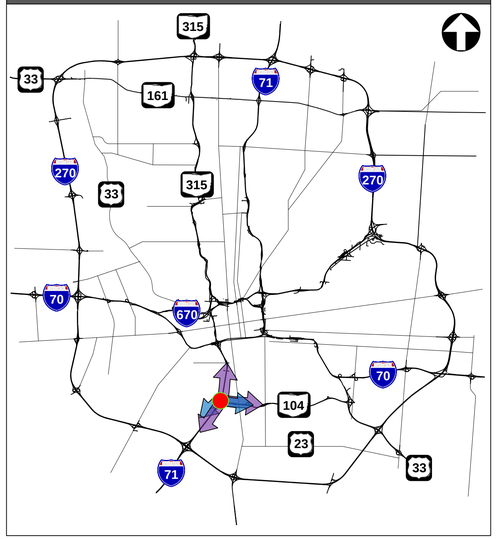
FIBER SPLICING (DARK/LIGHT – PROPOSED/EXISTING)

- FUSION SPLICE – 12 FIBER BUFFER TUBE
- FUSION SPLICE – PARTIAL BUFFER TUBE
- FUSION SPLICE – SINGLE FIBER
- COILED FIBER OR BUFFER TUBE

EQUIPMENT AND TERMINATION CABINET

- LH/ZX LH/ZX — GBIC OPTICAL TRANSCEIVER; LH - SHORT HAUL; ZX – LONG HAUL
- 8P8C CONNECTOR
- EMPTY SFP MODULE BAY
- LC TERMINATION – SINGLE FIBER
- LC TERMINATION – 12 FIBER BUFFER TUBE
- WIRELESS ETHERNET RADIO

KEY PLAN



[1]EACH CLAMSHELL, 288 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE MUST ACCOMMODATE 4 CABLE ENTRY PORTS, 288 FUSION SPLICES, AND 2 COILED BUFFER TUBES.

COMMUNICATION NODE 071104.0

REFER TO SHEET 571 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 629 FOR COMM OVERVIEW DETAILS

CIP: 540007 – 100012
PID NUMBER: 99733

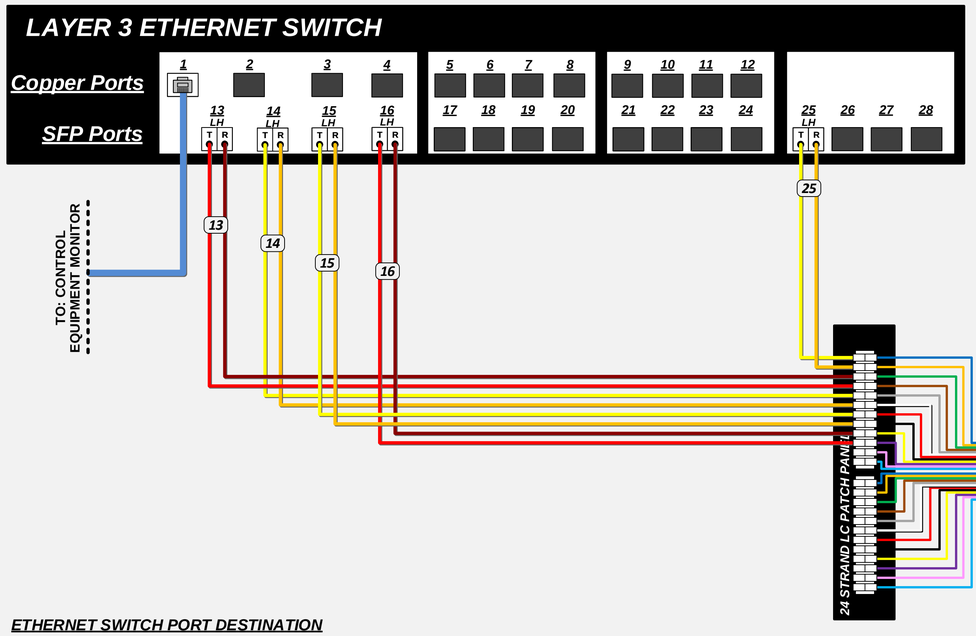
PROPOSED COMMUNICATION NODE# 071104.0: SR-104 AT I-71
FIBER OPTIC SPLICING DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

866
915

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COMMUNICATION NODE EQUIPMENT CABINET (#2)

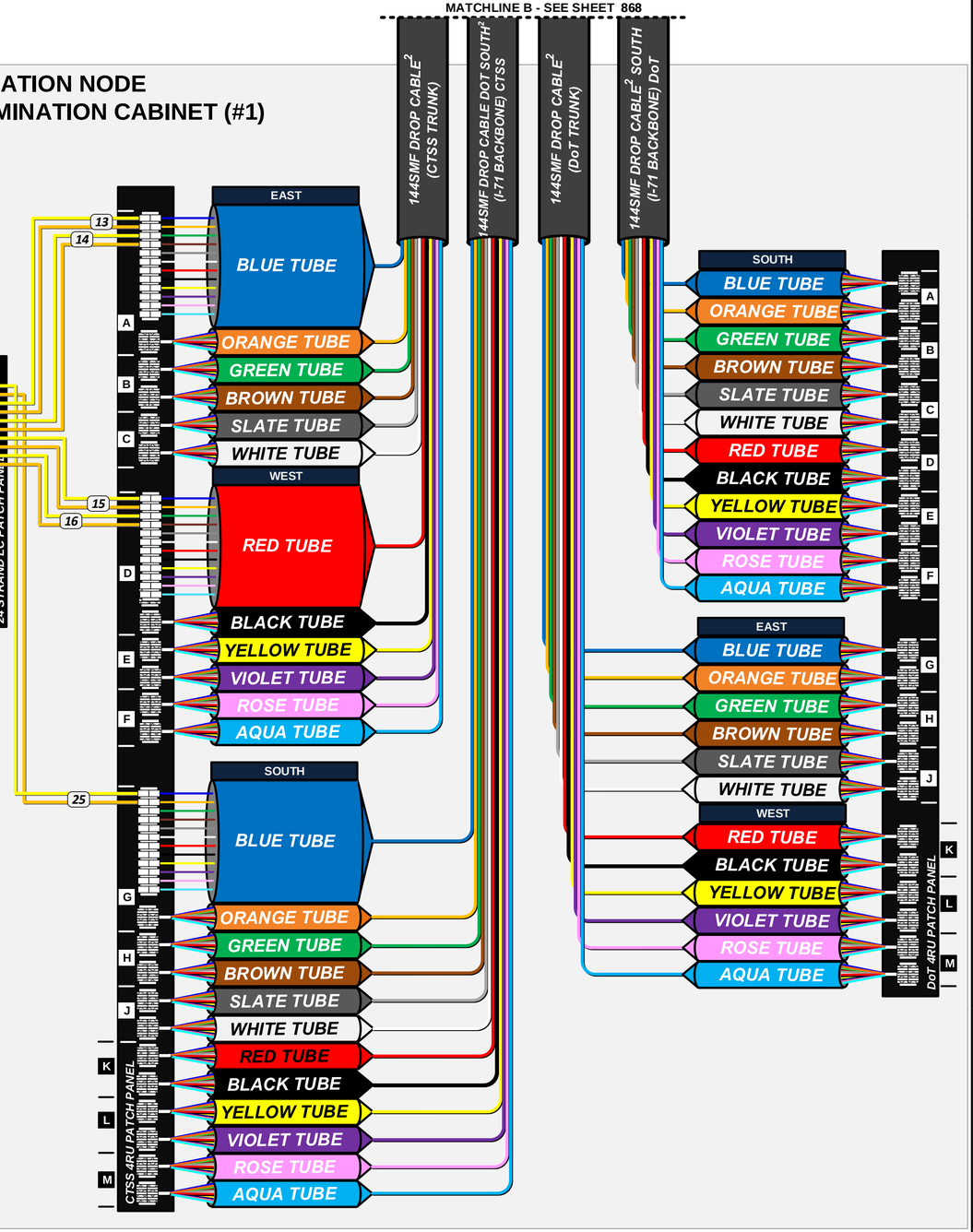


ETHERNET SWITCH PORT DESTINATION

PORT 25: PROPOSED COMMUNICATION NODE# 071104.0: SR-104 AT I-71
SEE SHEET 864
PORT 13: INT# 1077: I-71 NB RAMPS AT GREENLAWN AVE.
SEE SHEET 836
PORT 14: INT# 1078: DECKENBACH RD. AT GREENLAWN AVE.
SEE SHEET 837
PORT 15: INT# SIG4150: GREENLAWN AVE. AT HARMON AVE.
SEE SHEET 834
PORT 16: INT# 1076: I-71 SB RAMPS AT GREENLAWN AVE.
SEE SHEET 835

COMMUNICATION NODE FIBER TERMINATION CABINET (#1)

MATCHLINE B - SEE SHEET 868



LEGEND

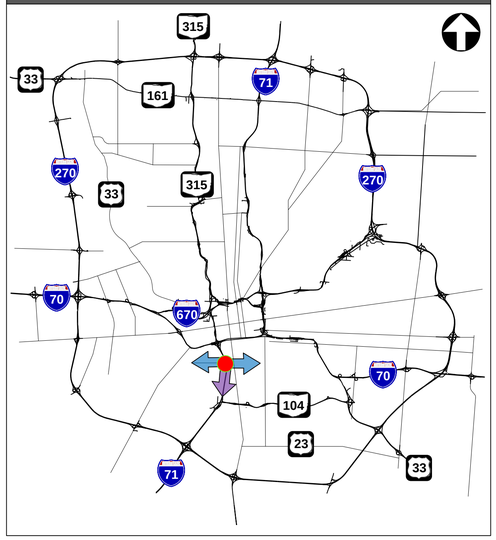
EQUIPMENT CABLE
- FIBER PATCH CABLES Tx/Tx
- CAT 5E CABLE
- FIBER PATCH CABLES Tx/Rx CROSSOVER
- EXISTING FIBER PATCH CABLES

INTERCONNECT CABLE
- 288 STRAND SMF CABLE
- CITYNET SMF CABLE
- 144 STRAND SMF CABLE
- D.O.T. SMF CABLE
- COLUMBUS FIBERNET SMF CABLE

FIBER SPLICING (DARK/LIGHT – PROPOSED/EXISTING)
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- FUSION SPLICE – PARTIAL BUFFER TUBE
- FUSION SPLICE – SINGLE FIBER
- COILED FIBER OR BUFFER TUBE

EQUIPMENT AND TERMINATION CABINET
- LH/ZX LH/ZX GBIC OPTICAL TRANSCEIVER
  LH - SHORT HAUL
  ZX – LONG HAUL
- 8P8C CONNECTOR
- EMPTY SFP MODULE BAY
- LC TERMINATION – SINGLE FIBER
- LC TERMINATION – 12 FIBER BUFFER TUBE
- WIRELESS ETHERNET RADIO

KEY PLAN



NOTES

[1] PRE-TERMINATED 24SMF CABLE INSTALLED IN 4" CONDUIT CONNECTING CABINETS.

[2] PATCH PANEL DROP CABLES SHALL BE FACTORY PRE-TERMINATED AND OF SUFFICIENT LENGTH TO REACH ADJACENT UNDERGROUND OR OVERHEAD ENCLOSURE SPLICE LOCATION.

COMMUNICATION NODE 071105.4
REFER TO SHEET 573 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 629 FOR COMM OVERVIEW DETAILS

CIP: 540007 – 100012
PID NUMBER: 99733

PROPOSED COMMUNICATION NODE# 071105.4: GREENLAWN AVE. AT I-71
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

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PROPOSED 48" PULL BOX

5 Cable Entries
288 Fusion Splices
3 Coiled Buffer Tubes

24SMF CABLE ODOT (Future)

CAP AND COIL 150' OF 24SMF FIBER OPTIC CABLE FOR FUTURE ODOT CONNECTION

1-6 7-12

144SMF CABLE EAST GREENLAWN AVE TRUNK

144SMF CABLE WEST GREENLAWN AVE TRUNK

MATCHLINE A - SEE INT# 1077 SHEET 836

CLAMSHELL, 288 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE

144SMF DROP CABLE (CTSS TRUNK)

144SMF DROP CABLE DOT SOUTH (I-71 BACKBONE) CTSS

144SMF DROP CABLE (DoT TRUNK)

144SMF DROP CABLE SOUTH (I-71 BACKBONE) DoT

4 Cable Entries
288 Fusion Splices
2 Coiled Buffer Tubes

CLAMSHELL, 288 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE

288SMF CABLE SOUTH SR-104 BACKBONE

24SMF CABLE ODOT (Future)

CAP AND COIL 150' OF 24SMF FIBER OPTIC CABLE FOR FUTURE ODOT CONNECTION

TO:
PROPOSED COMMUNICATION NODE# 071104.0: SR-104 AT I-71
SEE SHEET 866

MATCHLINE A - SEE SHEET 867

LEGEND

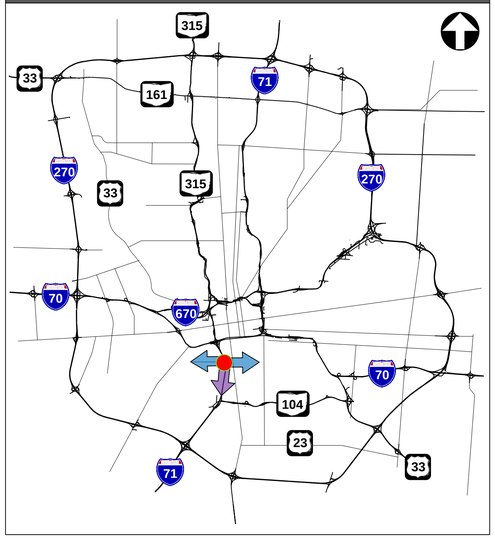
EQUIPMENT CABLE
- FIBER PATCH CABLES Tx/Tx
- FIBER PATCH CABLES Tx/Rx CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE

INTERCONNECT CABLE
- 288 STRAND SMF CABLE
- 144 STRAND SMF CABLE
- COLUMBUS FIBERNET SMF CABLE
- CITYNET SMF CABLE
- D.O.T. SMF CABLE

FIBER SPLICING (DARK/LIGHT – PROPOSED/EXISTING)
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- FUSION SPLICE – PARTIAL BUFFER TUBE
- FUSION SPLICE – SINGLE FIBER
- COILED FIBER OR BUFFER TUBE

EQUIPMENT AND TERMINATION CABINET
- *LH/ZX LH/ZX* GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL ZX – LONG HAUL
- 8P8C CONNECTOR
- EMPTY SFP MODULE BAY
- LC TERMINATION – SINGLE FIBER
- LC TERMINATION – 12 FIBER BUFFER TUBE
- WIRELESS ETHERNET RADIO

KEY PLAN



COMMUNICATION NODE 071105.4
REFER TO SHEET 573 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 629 FOR COMM OVERVIEW DETAILS

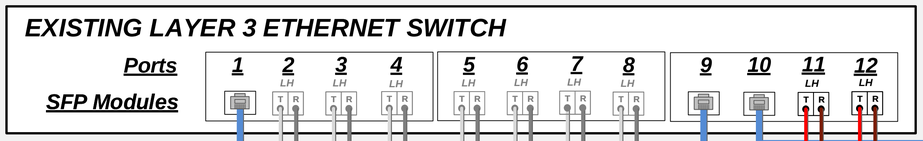
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PID NUMBER: 99733

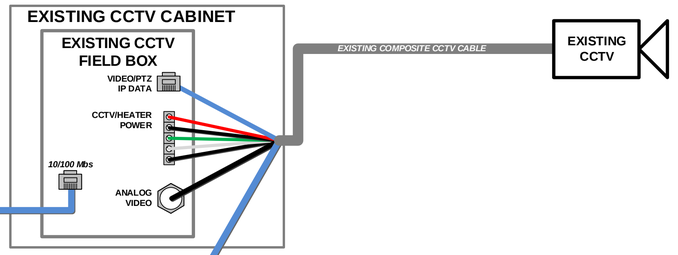
PROPOSED COMMUNICATION NODE# 071105.4: GREENLAWN AVE. AT I-71
FIBER OPTIC SPLICING DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

COMMUNICATION NODE EQUIPMENT CABINET (#2)

EXISTING LAYER 3 ETHERNET SWITCH





TO: CONTROL EQUIPMENT MONITOR

2 3 4 5 6 7 8 10 11

24 STRAND LC PATCH PANEL

24SMF DROP CABLE

24 STRAND LC PATCH PANEL

ETHERNET SWITCH PORT DESTINATION

PORT 2: EXISTING CONNECTION – INT# 3146: E NORTH BROADWAY AT REIS AVE.

PORT 3: EXISTING CONNECTION – INT# 3063: E NORTH BROADWAY AT SILVER DR.

PORT 4: EXISTING CONNECTION – INT# 3142: McGUFFEY RD. AT WEBER RD.

PORT 5: EXISTING CONNECTION – COMMUNICATION NODE# 071116.2: IR-71 AT MORSE RD.

PORT 6: EXISTING CONNECTION – TMC COMMUNICATION AT E TWENTY-FIFTH AVE.

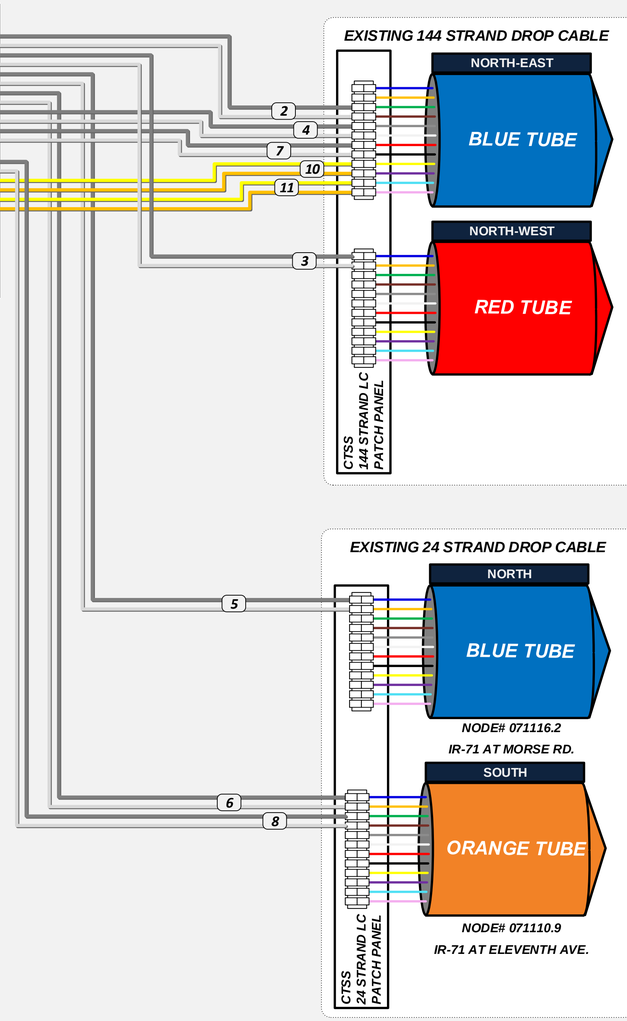
PORT 7: EXISTING CONNECTION – INT# 3132: HUDSON ST. AT McGUFFEY RD.

PORT 8: EXISTING CONNECTION – COMMUNICATION NODE# 071110.9: IR-71 AT ELEVENTH AVE.

PORT 10: INT# 3178: FOURTH ST. AT WYANDOTTE AVE.
SEE SHEET 741

PORT 11: INT# 3814: FOURTH ST. AT NORTHWOOD AVE.
SEE SHEET 740

COMMUNICATION NODE FIBER TERMINATION CABINET (#1)



LEGEND

EQUIPMENT CABLE

- FIBER PATCH CABLES Tx/Tx
- FIBER PATCH CABLES Tx/Rx CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE

INTERCONNECT CABLE

- 288 STRAND SMF CABLE
- 144 STRAND SMF CABLE
- COLUMBUS FIBERNET SMF CABLE
- CITYNET SMF CABLE
- D.O.T. SMF CABLE

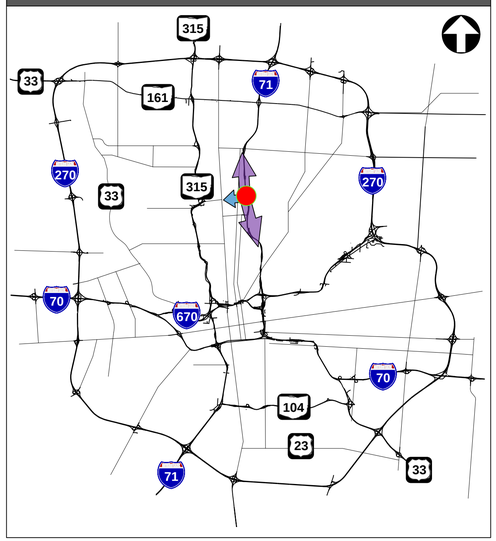
FIBER SPLICING (DARK/LIGHT – PROPOSED/EXISTING)

- FUSION SPLICE – 12 FIBER BUFFER TUBE
- FUSION SPLICE – PARTIAL BUFFER TUBE
- FUSION SPLICE – SINGLE FIBER
- COILED FIBER OR BUFFER TUBE

EQUIPMENT AND TERMINATION CABINET

- LH/ZX LH/ZX — GBIC OPTICAL TRANSCEIVER; LH - SHORT HAUL; ZX – LONG HAUL
- 8P8C CONNECTOR
- EMPTY SFP MODULE BAY
- LC TERMINATION – SINGLE FIBER
- LC TERMINATION – 12 FIBER BUFFER TUBE
- WIRELESS ETHERNET RADIO

KEY PLAN



COMMUNICATION NODE 071113.4

REFER TO SHEET 562 FOR QUANTITY DETAILS

REFER TO SHEET 620 FOR COMM OVERVIEW DETAILS

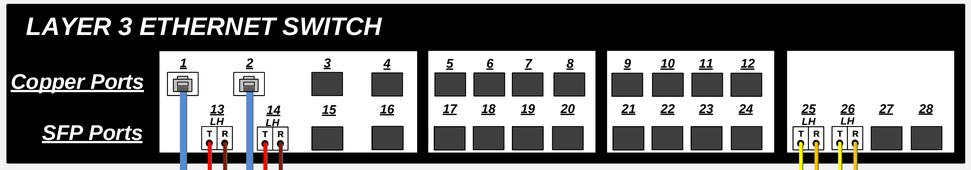
CIP: 540007 – 100012
PID NUMBER: 99733

EXISTING COMMUNICATION NODE# 071113.4: IR-71 AT NORTH BROADWAY
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

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COMMUNICATION NODE EQUIPMENT CABINET (#2)



TO: CONTROL EQUIPMENT MONITOR

13

14

25

26

24 STRAND LC PATCH PANEL

24SMF DROP CABLE[1]

24 STRAND LC PATCH PANEL

ETHERNET SWITCH PORT DESTINATION

PORT 25: PROPOSED COMMUNICATION NODE# 071121.8: GEMINI PL. AT I-71
SEE SHEET 872

PORT 26: EXISTING COMMUNICATION NODE# 270025.9: I-270 AT I-71
SEE SHEET 893

PORT 2: INT# 3211: 1-71 NB AT POLARIS PKWY.
SEE SHEET 707

PORT 13: INT# 3224: ORION PL. AT POLARIS PKWY.
SEE SHEET 708

PORT 14: INT# 3255: LYRA DR. AT POLARIS PKWY.
SEE SHEET 706

LEGEND

EQUIPMENT CABLE

- FIBER PATCH CABLES Tx/Tx
- CAT 5E CABLE
- FIBER PATCH CABLES Tx/Rx CROSSOVER
- EXISTING FIBER PATCH CABLES

INTERCONNECT CABLE

- 288 STRAND SMF CABLE
- CITYNET SMF CABLE
- 144 STRAND SMF CABLE
- D.O.T. SMF CABLE
- COLUMBUS FIBERNET SMF CABLE

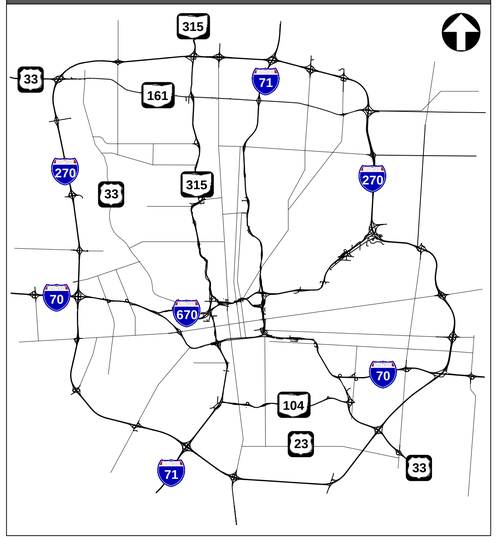
FIBER SPLICING (DARK/LIGHT – PROPOSED/EXISTING)

- FUSION SPLICE – 12 FIBER BUFFER TUBE
- FUSION SPLICE – PARTIAL BUFFER TUBE
- FUSION SPLICE – SINGLE FIBER
- COILED FIBER OR BUFFER TUBE

EQUIPMENT AND TERMINATION CABINET

- LH/ZX LH/ZX — GBIC OPTICAL TRANSCEIVER; LH - SHORT HAUL; ZX – LONG HAUL
- 8P8C CONNECTOR
- EMPTY SFP MODULE BAY
- LC TERMINATION – SINGLE FIBER
- LC TERMINATION – 12 FIBER BUFFER TUBE
- WIRELESS ETHERNET RADIO

KEY PLAN



COMMUNICATION NODE FIBER TERMINATION CABINET (#1)

MATCHLINE A - SEE SHEET 871

144SMF DROP CABLE[2] (CTSS TRUNK)

24SMF DROP CABLE[2] (I-71 BACKBONE) CTSS

144SMF DROP CABLE[2] (DoT TRUNK)

144SMF DROP CABLE[2] NORTH (I-71 BACKBONE) DoT

144SMF DROP CABLE[2] SOUTH (I-71 BACKBONE) DoT

13

14

25

26

CTSS 4RU PATCH PANEL

EAST
BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE

WEST
RED TUBE
BLACK TUBE
YELLOW TUBE
VIOLET TUBE
ROSE TUBE
AQUA TUBE

NORTH
BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE
RED TUBE
BLACK TUBE
YELLOW TUBE
VIOLET TUBE
ROSE TUBE
AQUA TUBE

SOUTH
BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE
RED TUBE
BLACK TUBE
YELLOW TUBE
VIOLET TUBE
ROSE TUBE
AQUA TUBE

DoT 4RU PATCH PANEL

NOTES

[1] PRE-TERMINATED 24SMF CABLE INSTALLED IN 4" CONDUIT CONNECTING CABINETS.

[2] PATCH PANEL DROP CABLES SHALL BE FACTORY PRE-TERMINATED AND OF SUFFICIENT LENGTH TO REACH ADJACENT UNDERGROUND OR OVERHEAD ENCLOSURE SPLICE LOCATION.

COMMUNICATION NODE 071121.4

REFER TO SHEET 596 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 618 FOR COMM OVERVIEW DETAILS

CIP: 540007 – 100012
PID NUMBER: 99733

PROPOSED COMMUNICATION NODE# 071121.4: POLARIS PKWY AT I-71
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

870
915

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PROPOSED 48" PULL BOX

5 Cable Entries
288 Fusion Splices
3 Coiled Buffer Tubes

24SMF CABLE ODOT (Future)

CAP AND COIL 150' OF 24SMF FIBER OPTIC CABLE FOR FUTURE ODOT CONNECTION

1-6 7-12
1-6 7-12
1-6 7-12
1-6 7-12
1-6 7-12

144SMF CABLE EAST POLARIS PKWY TRUNK

TO:
INT# 3224: ORION PL. AT POLARIS PKWY.
SEE SHEET 708

TO:
INT# 3211: 1-71 NB AT POLARIS PKWY.
SEE SHEET 707

TO:
PROPOSED COMMUNICATION NODE# 071121.8: GEMINI PL. AT I-71
SEE SHEET 873

144SMF CABLE WEST POLARIS PKWY TRUNK

TO:
INT# 3255: LYRA DR. AT POLARIS PKWY.
SEE SHEET 706

CLAMSHELL, 288 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE

6 Cable Entries
336 Fusion Splices
10 Buffer Tubes Passed Through Unspliced

288SMF CABLE NORTH I-71 BACKBONE

CAP AND COIL 150' OF 24SMF FIBER OPTIC CABLE FOR FUTURE ODOT CONNECTION

24SMF CABLE ODOT (Future)

DOME, 800 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE

288SMF CABLE SOUTH I-71 BACKBONE

TO:
EXISTING COMMUNICATION NODE# 270025.9: I-270 AT I-71
SEE SHEET 895

144SMF DROP CABLE (CTSS TRUNK)
24SMF DROP CABLE SOUTH (I-71 BACKBONE) CTSS
144SMF DROP CABLE (DoT TRUNK)
144SMF DROP CABLE DOT NORTH (I-71 BACKBONE) DoT
144SMF DROP CABLE SOUTH (I-71 BACKBONE) DoT

MATCHLINE A - SEE SHEET 870

LEGEND

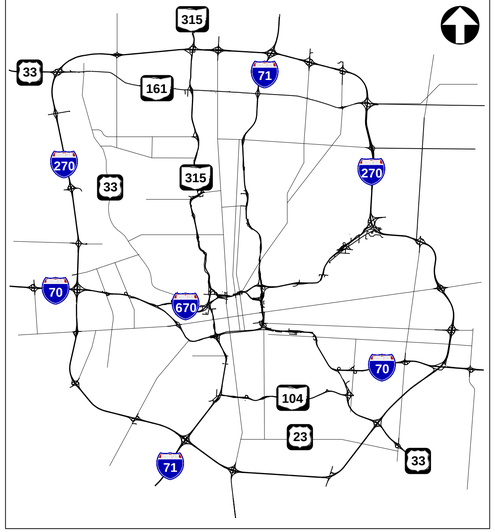
EQUIPMENT CABLE
- FIBER PATCH CABLES Tx/Tx
- CAT 5E CABLE
- FIBER PATCH CABLES Tx/Rx CROSSOVER
- EXISTING FIBER PATCH CABLES

INTERCONNECT CABLE
- 288 STRAND SMF CABLE
- CITYNET SMF CABLE
- 144 STRAND SMF CABLE
- D.O.T. SMF CABLE
- COLUMBUS FIBERNET SMF CABLE

FIBER SPLICING (DARK/LIGHT – PROPOSED/EXISTING)
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- FUSION SPLICE – PARTIAL BUFFER TUBE
- FUSION SPLICE – SINGLE FIBER
- COILED FIBER OR BUFFER TUBE

EQUIPMENT AND TERMINATION CABINET
- LH/ZX LH/ZX — GBIC OPTICAL TRANSCEIVER; LH - SHORT HAUL; ZX – LONG HAUL
- 8P8C CONNECTOR
- EMPTY SFP MODULE BAY
- LC TERMINATION – SINGLE FIBER
- LC TERMINATION – 12 FIBER BUFFER TUBE
- WIRELESS ETHERNET RADIO

KEY PLAN



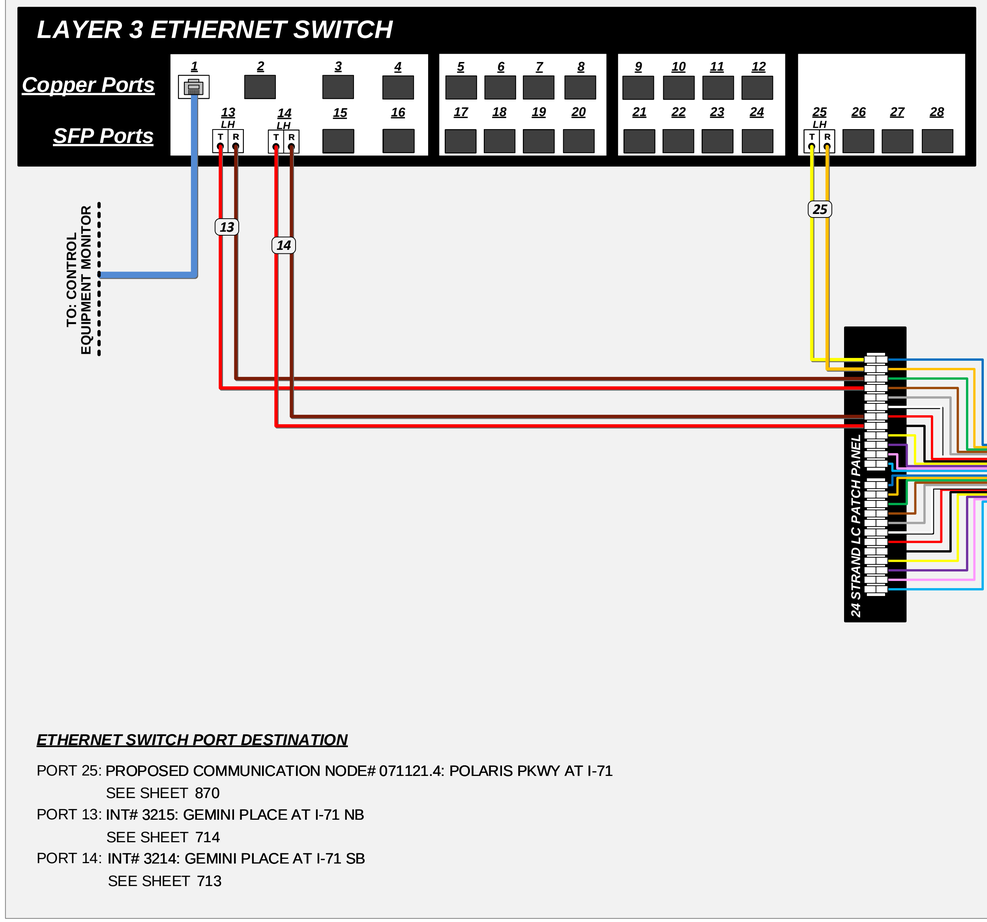
COMMUNICATION NODE 071121.4
REFER TO SHEET 596 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 618 FOR COMM OVERVIEW DETAILS

CIP: 540007 – 100012
PID NUMBER: 99733

PROPOSED COMMUNICATION NODE# 071121.4: POLARIS PKWY AT I-71
FIBER OPTIC SPLICING DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

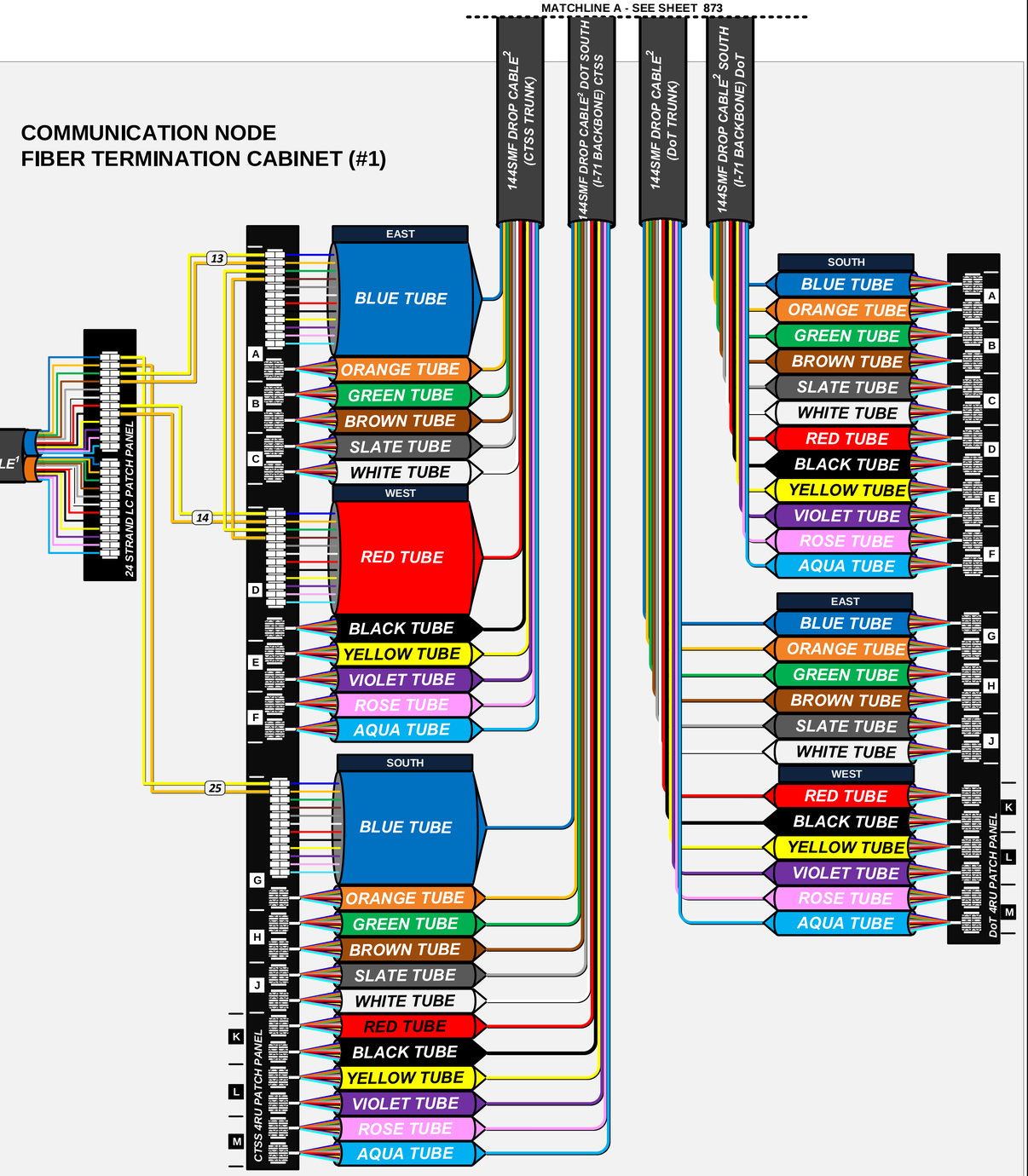
COMMUNICATION NODE EQUIPMENT CABINET (#2)



ETHERNET SWITCH PORT DESTINATION

PORT 25: PROPOSED COMMUNICATION NODE# 071121.4: POLARIS PKWY AT I-71
SEE SHEET 870
PORT 13: INT# 3215: GEMINI PLACE AT I-71 NB
SEE SHEET 714
PORT 14: INT# 3214: GEMINI PLACE AT I-71 SB
SEE SHEET 713

COMMUNICATION NODE FIBER TERMINATION CABINET (#1)



LEGEND

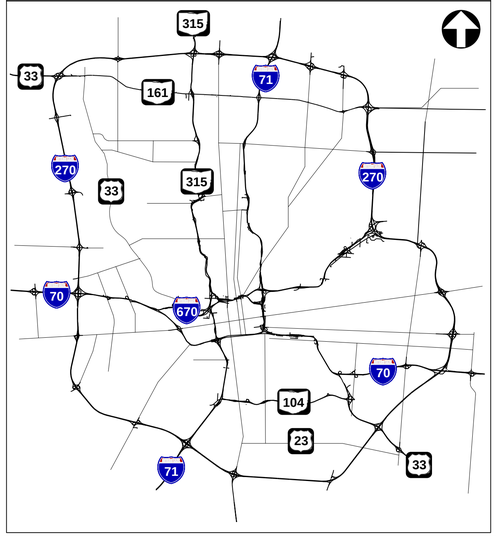
EQUIPMENT CABLE
- FIBER PATCH CABLES Tx/Tx
- CAT 5E CABLE
- FIBER PATCH CABLES Tx/Rx CROSSOVER
- EXISTING FIBER PATCH CABLES

INTERCONNECT CABLE
- 288 STRAND SMF CABLE
- CITYNET SMF CABLE
- 144 STRAND SMF CABLE
- D.O.T. SMF CABLE
- COLUMBUS FIBERNET SMF CABLE

FIBER SPLICING (DARK/LIGHT – PROPOSED/EXISTING)
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- FUSION SPLICE – PARTIAL BUFFER TUBE
- FUSION SPLICE – SINGLE FIBER
- COILED FIBER OR BUFFER TUBE

EQUIPMENT AND TERMINATION CABINET
- LH/ZX LH/ZX — GBIC OPTICAL TRANSCEIVER, LH - SHORT HAUL, ZX – LONG HAUL
- 8P8C CONNECTOR
- EMPTY SFP MODULE BAY
- LC TERMINATION – SINGLE FIBER
- LC TERMINATION – 12 FIBER BUFFER TUBE
- WIRELESS ETHERNET RADIO

KEY PLAN



NOTES

[1] PRE-TERMINATED 24SMF CABLE INSTALLED IN 4" CONDUIT CONNECTING CABINETS.

[2] PATCH PANEL DROP CABLES SHALL BE FACTORY PRE-TERMINATED AND OF SUFFICIENT LENGTH TO REACH ADJACENT UNDERGROUND OR OVERHEAD ENCLOSURE SPLICE LOCATION.

COMMUNICATION NODE 071121.8
REFER TO SHEET 598 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 618 FOR COMM OVERVIEW DETAILS

CIP: 540007 – 100012
PID NUMBER: 99733

PROPOSED COMMUNICATION NODE# 071121.8: GEMINI PL. AT I-71
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

872
915

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PROPOSED 48" PULL BOX

5 Cable Entries
288 Fusion Splices
3 Coiled Buffer Tubes

24SMF CABLE ODOT (Future)

CAP AND COIL 150' OF 24SMF FIBER OPTIC CABLE FOR FUTURE ODOT CONNECTION

1-6
7-12
1-6
7-12
1-6
7-12
1-6
7-12

144SMF CABLE EAST GEMINI PL TRUNK

144SMF CABLE WEST GEMINI PL TRUNK

TO:
INT# 3214: GEMINI PLACE
AT I-71 SB
SEE SHEET 713

TO:
INT# 3215: GEMINI PLACE
AT I-71 NB
SEE SHEET 714

CLAMSHELL, 288 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE

4 Cable Entries
288 Fusion Splices
2 Coiled Buffer Tubes

144SMF DROP CABLE (CTSS TRUNK)

144SMF DROP CABLE DOT SOUTH (I-71 BACKBONE) CTSS

144SMF DROP CABLE (DoT TRUNK)

144SMF DROP CABLE SOUTH (I-71 BACKBONE) DoT

CLAMSHELL, 288 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE

288SMF CABLE SOUTH I-71 BACKBONE

24SMF CABLE ODOT (Future)

TO:
PROPOSED COMMUNICATION NODE# 071121.4: POLARIS PKWY AT I-71
SEE SHEET 871

CAP AND COIL 150' OF 24SMF FIBER OPTIC CABLE FOR FUTURE ODOT CONNECTION

MATCHLINE A - SEE SHEET 870

LEGEND

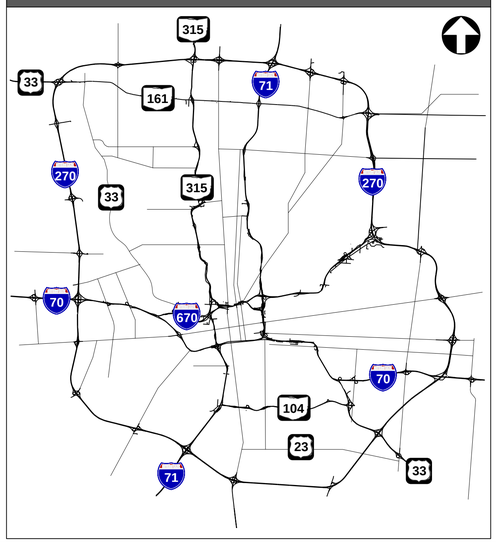
EQUIPMENT CABLE
- FIBER PATCH CABLES Tx/Tx
- FIBER PATCH CABLES Tx/Rx CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE

INTERCONNECT CABLE
- 288 STRAND SMF CABLE
- 144 STRAND SMF CABLE
- COLUMBUS FIBERNET SMF CABLE
- CITYNET SMF CABLE
- D.O.T. SMF CABLE

FIBER SPLICING (DARK/LIGHT – PROPOSED/EXISTING)
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- FUSION SPLICE – PARTIAL BUFFER TUBE
- FUSION SPLICE – SINGLE FIBER
- COILED FIBER OR BUFFER TUBE

EQUIPMENT AND TERMINATION CABINET
- *LH/ZX LH/ZX* GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL ZX – LONG HAUL
- 8P8C CONNECTOR
- EMPTY SFP MODULE BAY
- LC TERMINATION – SINGLE FIBER
- LC TERMINATION – 12 FIBER BUFFER TUBE
- WIRELESS ETHERNET RADIO

KEY PLAN



COMMUNICATION NODE 071121.8

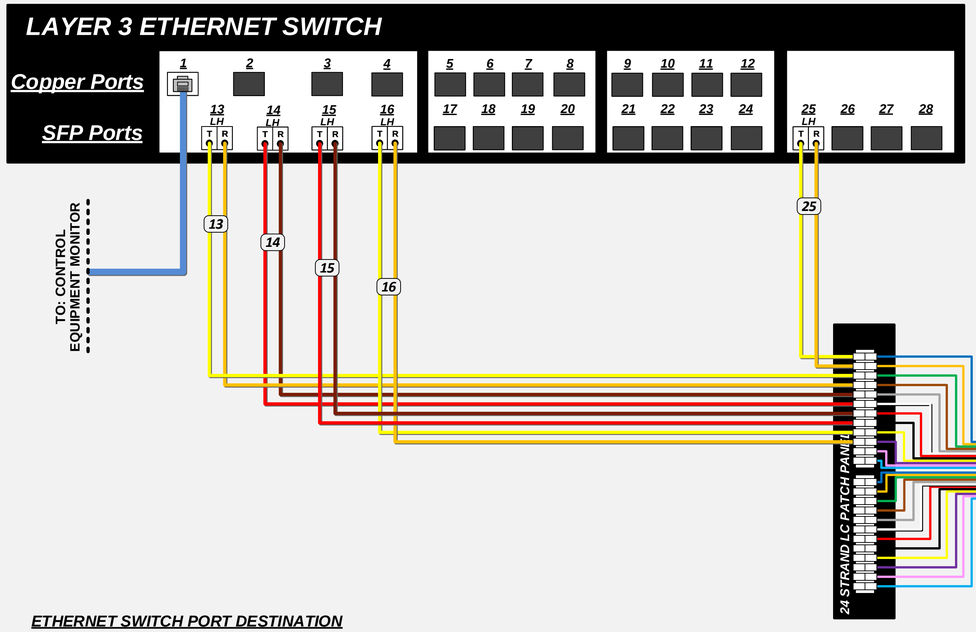
REFER TO SHEET 598 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 618 FOR COMM OVERVIEW DETAILS

CIP: 540007 – 100012
PID NUMBER: 99733

PROPOSED COMMUNICATION NODE# 071121.8: GEMINI PL AT I-71
FIBER OPTIC SPLICING DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

COMMUNICATION NODE EQUIPMENT CABINET (#2)



ETHERNET SWITCH PORT DESTINATION

PORT 25: PROPOSED COMMUNICATION NODE# 071104.0: SR-104 AT I-71
SEE SHEET 864
PORT 13: INT# 2061: BARTHMAN AVE. AT HIGH ST.
SEE SHEET 830
PORT 14: INT# 2062: SR-104 WB RAMPS AT HIGH ST.
SEE SHEET 829
PORT 15: INT# 2063: SR-104 EB RAMPS AT HIGH ST.
SEE SHEET 828
PORT 16: INT# 2064: DERING AVE. AT HIGH ST.
SEE SHEET 827

LEGEND

EQUIPMENT CABLE

- FIBER PATCH CABLES Tx/Tx
- CAT 5E CABLE
- FIBER PATCH CABLES Tx/Rx CROSSOVER
- EXISTING FIBER PATCH CABLES

INTERCONNECT CABLE

- 288 STRAND SMF CABLE
- CITYNET SMF CABLE
- 144 STRAND SMF CABLE
- D.O.T. SMF CABLE
- COLUMBUS FIBERNET SMF CABLE

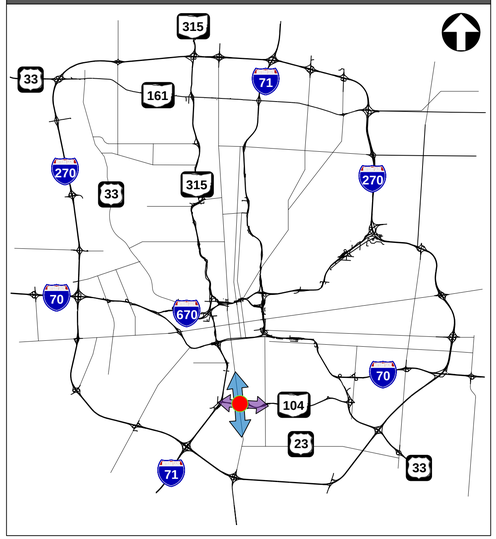
FIBER SPLICING (DARK/LIGHT – PROPOSED/EXISTING)

- FUSION SPLICE – 12 FIBER BUFFER TUBE
- FUSION SPLICE – PARTIAL BUFFER TUBE
- FUSION SPLICE – SINGLE FIBER
- COILED FIBER OR BUFFER TUBE

EQUIPMENT AND TERMINATION CABINET

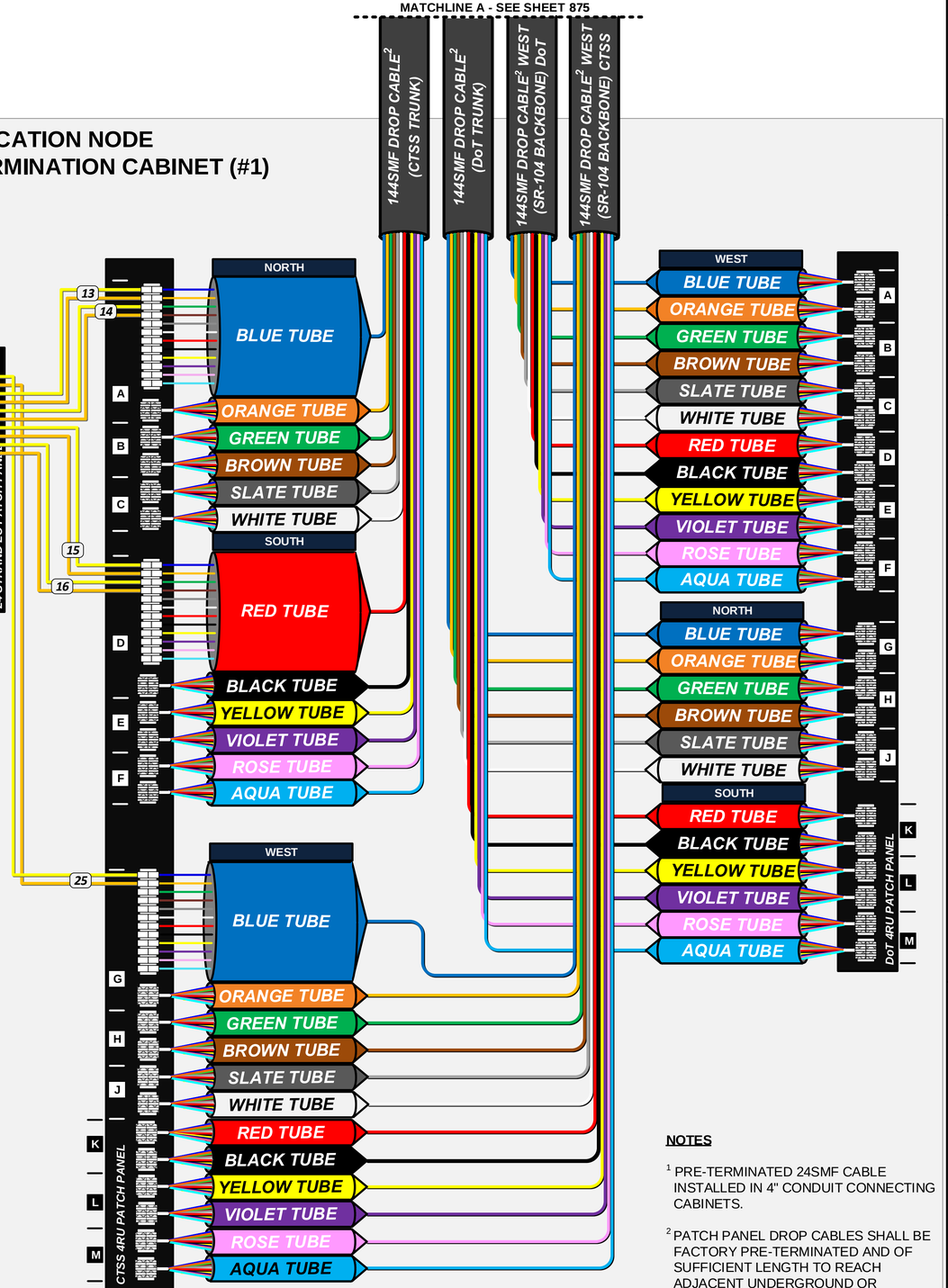
- LH/ZX LH/ZX — GBIC OPTICAL TRANSCEIVER, LH - SHORT HAUL, ZX – LONG HAUL
- 8P8C CONNECTOR
- EMPTY SFP MODULE BAY
- LC TERMINATION – SINGLE FIBER
- LC TERMINATION – 12 FIBER BUFFER TUBE
- WIRELESS ETHERNET RADIO

KEY PLAN



MATCHLINE A - SEE SHEET 875

COMMUNICATION NODE FIBER TERMINATION CABINET (#1)



NOTES

[1] PRE-TERMINATED 24SMF CABLE INSTALLED IN 4" CONDUIT CONNECTING CABINETS.

[2] PATCH PANEL DROP CABLES SHALL BE FACTORY PRE-TERMINATED AND OF SUFFICIENT LENGTH TO REACH ADJACENT UNDERGROUND OR OVERHEAD ENCLOSURE SPLICE LOCATION.

COMMUNICATION NODE 104091.0

REFER TO SHEET 578 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 629 FOR COMM OVERVIEW DETAILS

CIP: 540007 – 100012
PID NUMBER: 99733

PROPOSED COMMUNICATION NODE# 104091.0: SR-104 AT US-23
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

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MATCHLINE A - SEE INT# 2062 SHEET 829

144SMF CABLE SOUTH HIGH ST TRUNK

144SMF CABLE NORTH HIGH ST TRUNK

TO: PROPOSED COMMUNICATION NODE# 071104.0: SR-104 AT I-71

SEE SHEET 866

PROPOSED 48" PULL BOX

4 Cable Entries
288 Fusion Splices
2 Coiled Buffer Tubes

288SMF CABLE WEST SR-104 BACKBONE

5 Cable Entries
288 Fusion Splices
3 Coiled Buffer Tubes

CLAMSHELL, 288 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE

1-6
7-12

CAP AND COIL 150' OF 24SMF FIBER OPTIC DROP CABLE FOR FUTURE ODOT CONNECTION

24SMF CABLE ODOT (future)

144SMF DROP CABLE (CTSS Trunk)

144SMF DROP CABLE (DoT Trunk)

144SMF DROP CABLE WEST (SR-104 BACKBONE) DoT

144SMF DROP CABLE WEST (SR-104 BACKBONE) CTSS

CLAMSHELL, 288 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE

24SMF CABLE ODOT (Future)

CAP AND COIL 150' OF 24SMF FIBER OPTIC DROP CABLE FOR FUTURE ODOT CONNECTION

MATCHLINE A - SEE SHEET 874

LEGEND

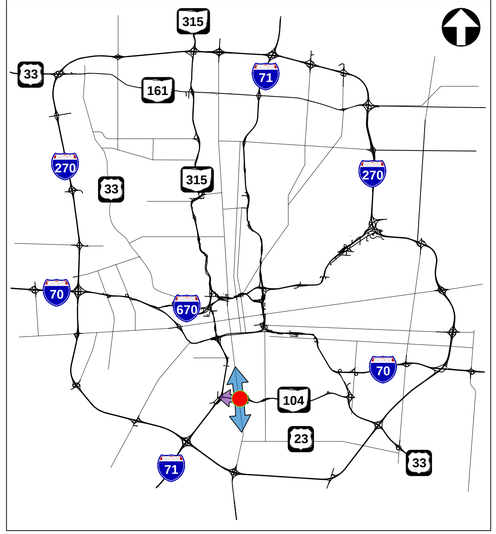
EQUIPMENT CABLE
- FIBER PATCH CABLES Tx/Tx
- CAT 5E CABLE
- FIBER PATCH CABLES Tx/Rx CROSSOVER
- EXISTING FIBER PATCH CABLES

INTERCONNECT CABLE
- 288 STRAND SMF CABLE
- CITYNET SMF CABLE
- 144 STRAND SMF CABLE
- D.O.T. SMF CABLE
- COLUMBUS FIBERNET SMF CABLE

FIBER SPLICING (DARK/LIGHT – PROPOSED/EXISTING)
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- FUSION SPLICE – PARTIAL BUFFER TUBE
- FUSION SPLICE – SINGLE FIBER
- COILED FIBER OR BUFFER TUBE

EQUIPMENT AND TERMINATION CABINET
- *LH/ZX* GBIC OPTICAL TRANSCEIVER (LH - SHORT HAUL, ZX – LONG HAUL)
- 8P8C CONNECTOR
- EMPTY SFP MODULE BAY
- LC TERMINATION – SINGLE FIBER
- LC TERMINATION – 12 FIBER BUFFER TUBE
- WIRELESS ETHERNET RADIO

KEY PLAN



COMMUNICATION NODE 104091.0

REFER TO SHEET 578 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 629 FOR COMM OVERVIEW DETAILS

CIP: 540007 – 100012
PID NUMBER: 99733

PROPOSED COMMUNICATION NODE# 104091.0: SR-104 AT US-23
FIBER OPTIC SPLICING DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

COMMUNICATION NODE EQUIPMENT CABINET (#2)

LAYER 3 ETHERNET SWITCH

Copper Ports 1 2 3 4 5 6 7 8 9 10 11 12

SFP Ports 13 LH T R 14 LH T R 15 16 17 18 19 20 21 22 23 24 25 LH T R 26 LH T R 27 LH T R 28 LH T R

TO: CONTROL EQUIPMENT MONITOR

13

14

25 26 27 28

24 STRAND LC PATCH PANEL

24SMF DROP CABLE[1]

24 STRAND LC PATCH PANEL

ETHERNET SWITCH PORT DESTINATION

PORT 25: PROPOSED COMMUNICATION NODE# 161045.6: SR-161 AT NEW ALBANY RD.
SEE SHEET 878

PORT 26: PROPOSED COMMUNICATION NODE# 161045.6: SR-161 AT NEW ALBANY RD.
SEE SHEET 878

PORT 27: PROPOSED COMMUNICATION NODE# 270030.5: I-270 AT SR-161
SEE SHEET 899

PORT 28: PROPOSED COMMUNICATION NODE# 270030.5: I-270 AT SR-161
SEE SHEET 899

PORT 13: INT# 3247: HAMILTON RD. AT SR-161 WB
SEE SHEET 804

PORT 14: INT# 3281: HAMILTON RD. AT SR-161 EB
SEE SHEET 803

LEGEND

EQUIPMENT CABLE

- FIBER PATCH CABLES Tx/Tx
- CAT 5E CABLE
- FIBER PATCH CABLES Tx/Rx CROSSOVER
- EXISTING FIBER PATCH CABLES

INTERCONNECT CABLE

- 288 STRAND SMF CABLE
- CITYNET SMF CABLE
- 144 STRAND SMF CABLE
- D.O.T. SMF CABLE
- COLUMBUS FIBERNET SMF CABLE

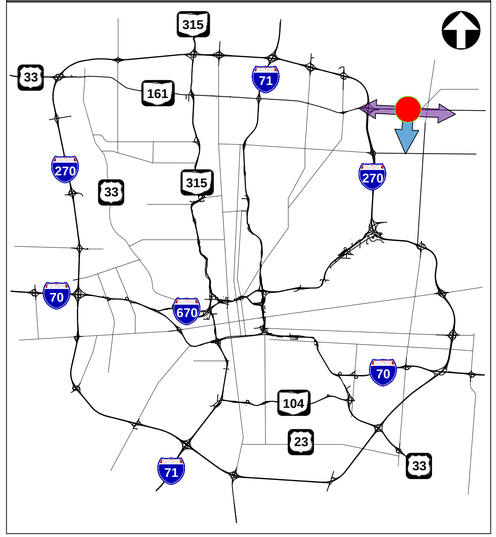
FIBER SPLICING (DARK/LIGHT – PROPOSED/EXISTING)

- FUSION SPLICE – 12 FIBER BUFFER TUBE
- FUSION SPLICE – PARTIAL BUFFER TUBE
- FUSION SPLICE – SINGLE FIBER
- COILED FIBER OR BUFFER TUBE

EQUIPMENT AND TERMINATION CABINET

- LH/ZX LH/ZX — GBIC OPTICAL TRANSCEIVER; LH - SHORT HAUL; ZX – LONG HAUL
- 8P8C CONNECTOR
- EMPTY SFP MODULE BAY
- LC TERMINATION – SINGLE FIBER
- LC TERMINATION – 12 FIBER BUFFER TUBE
- WIRELESS ETHERNET RADIO

KEY PLAN



MATCHLINE A - SEE SHEET 877

COMMUNICATION NODE FIBER TERMINATION CABINET (#1)

144SMF DROP CABLE[2] (CTSS TRUNK)

144SMF DROP CABLE[2] (DoT TRUNK)

24SMF DROP CABLE[2] SR-161 BACKBONE (CTSS)

144SMF DROP CABLE[2] WEST SR-161 BACKBONE (DoT)

144SMF DROP CABLE[2] EAST SR-161 BACKBONE (DoT)

13

14

CTSS 4RU PATCH PANEL

SOUTH
BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE

SPARE
RED TUBE
BLACK TUBE
YELLOW TUBE
VIOLET TUBE
ROSE TUBE
AQUA TUBE

25

26

CTSS 1RU PATCH PANEL

EAST
BLUE TUBE

WEST
ORANGE TUBE

27

28

DoT 4RU PATCH PANEL

EAST
BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE
RED TUBE
BLACK TUBE
YELLOW TUBE
VIOLET TUBE
ROSE TUBE
AQUA TUBE

WEST
BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE
RED TUBE
BLACK TUBE
YELLOW TUBE
VIOLET TUBE
ROSE TUBE
AQUA TUBE

SOUTH
BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE

SPARE
RED TUBE
BLACK TUBE
YELLOW TUBE
VIOLET TUBE
ROSE TUBE
AQUA TUBE

NOTES

[1] PRE-TERMINATED 24SMF CABLE INSTALLED IN 4" CONDUIT CONNECTING CABINETS.

[2] PATCH PANEL DROP CABLES SHALL BE FACTORY PRE-TERMINATED AND OF SUFFICIENT LENGTH TO REACH ADJACENT UNDERGROUND OR OVERHEAD ENCLOSURE SPLICE LOCATION.

COMMUNICATION NODE 161043.8

REFER TO SHEET 587 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 626 FOR COMM OVERVIEW DETAILS

CIP: 540007 – 100012
PID NUMBER: 99733

PROPOSED COMMUNICATION NODE# 161043.8: SR-161 AT HAMILTON RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

J:\Jobs\63721 CTSS Phase E\TECHPROD\Communications\Nodes\Phase E comm nodes.vsd - 161043.8 layout - last saved by: Sai Geetha Koganti 9/5/2018 5:24:02 PM - printed: 9/5/2018 5:24:02 PM

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EXISTING 48" PULL BOX

6 Cable Entries
336 Fusion Splices
10 Buffer Tubes Passed Through Unspliced

TO:
SE_161_Sunbury:
SR-161 AT
SUNBURY RD.
SEE SHEET 809

288SMF CABLE WEST SR-161 BACKBONE

288SMF CABLE EAST SR-161BACKBONE

TO:
PROPOSED
COMMUNICATION
NODE# 161045.6: SR-161
AT NEW ALBANY RD.
SEE SHEET 879

CLAMSHELL, 288 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE

1-6 7-12
1-6 7-12
1-6 7-12

CAP AND COIL 150' OF 24SMF FIBER OPTIC DROP CABLE FOR FUTURE ODOT CONNECTION

24SMF CABLE ODOT (future)

4 Cable Entries
144 Fusion Splices
15 Coiled Buffer Tubes

144SMF CABLE SOUTH HAMILTON RD TRUNK

144SMF DROP CABLE (CTSS Trunk)

144SMF DROP CABLE (DoT Trunk)

24SMF DROP CABLE SR-161 BACKBONE (CTSS)

144SMF DROP CABLE WEST SR-161 BACKBONE (DoT)

144SMF DROP CABLE EAST SR-161 BACKBONE (DoT)

DOME, 800 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE

24SMF CABLE ODOT

CAP AND COIL 150' OF 24SMF FIBER OPTIC CABLE FOR FUTURE ODOT CONNECTION

TO:
INT# 3247:
HAMILTON RD. AT
SR-161 WB
SEE SHEET 804

MATCHLINE A - SEE SHEET 876

LEGEND

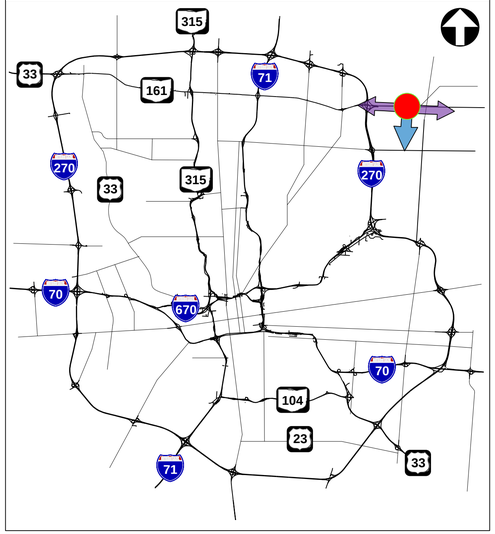
EQUIPMENT CABLE
- FIBER PATCH CABLES Tx/Tx
- CAT 5E CABLE
- FIBER PATCH CABLES Tx/Rx CROSSOVER
- EXISTING FIBER PATCH CABLES

INTERCONNECT CABLE
- 288 STRAND SMF CABLE
- CITYNET SMF CABLE
- 144 STRAND SMF CABLE
- D.O.T. SMF CABLE
- COLUMBUS FIBERNET SMF CABLE

FIBER SPLICING (DARK/LIGHT – PROPOSED/EXISTING)
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- FUSION SPLICE – PARTIAL BUFFER TUBE
- FUSION SPLICE – SINGLE FIBER
- COILED FIBER OR BUFFER TUBE

EQUIPMENT AND TERMINATION CABINET
- LH/ZX LH/ZX — GBIC OPTICAL TRANSCEIVER; LH - SHORT HAUL; ZX – LONG HAUL
- 8P8C CONNECTOR
- EMPTY SFP MODULE BAY
- LC TERMINATION – SINGLE FIBER
- LC TERMINATION – 12 FIBER BUFFER TUBE
- WIRELESS ETHERNET RADIO

KEY PLAN



COMMUNICATION NODE 161043.8
REFER TO SHEET 587 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 626 FOR COMM OVERVIEW DETAILS

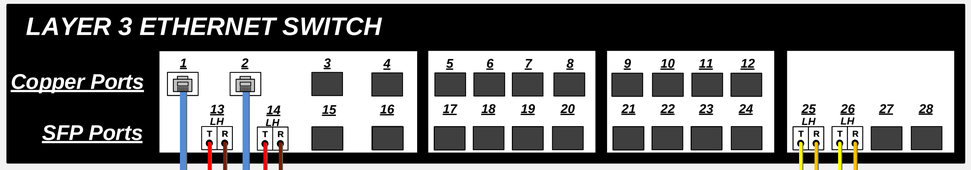
CIP: 540007 – 100012
PID NUMBER: 99733

PROPOSED COMMUNICATION NODE# 161043.8: SR-161 AT HAMILTON RD.
FIBER OPTIC SPLICING DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

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COMMUNICATION NODE EQUIPMENT CABINET (#2)



TO: CONTROL EQUIPMENT MONITOR

13 14 2 25 26

24 STRAND LC PATCH PANEL

24SMF DROP CABLE[1]

24 STRAND LC PATCH PANEL

MATCHLINE A - SEE SHEET 879

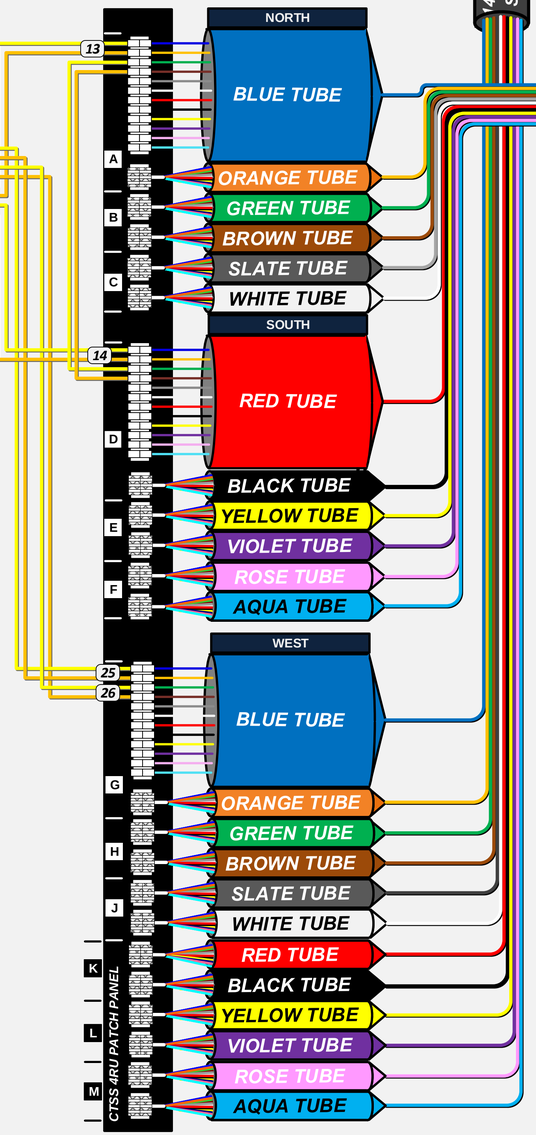
144SMF DROP CABLE[2] WEST SR-161 BACKBONE (CTSS)

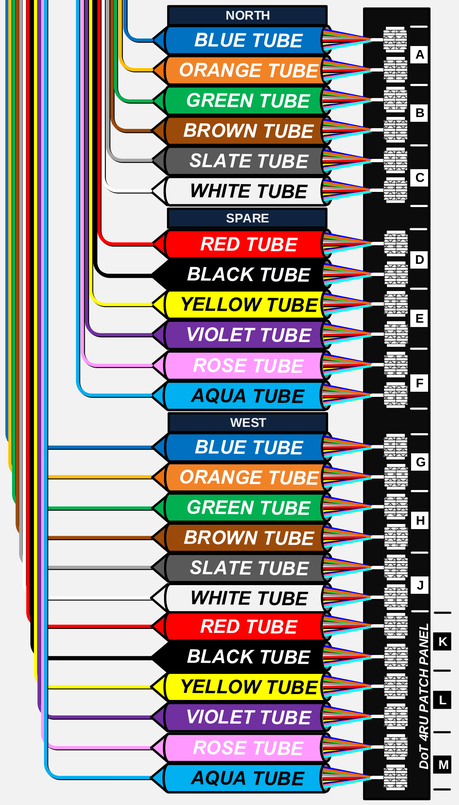
144SMF DROP CABLE[2] WEST SR-161 BACKBONE (DoT)

144SMF DROP CABLE[2] (CTSS TRUNK)

144SMF DROP CABLE[2] (DoT TRUNK)

COMMUNICATION NODE FIBER TERMINATION CABINET (#1)





ETHERNET SWITCH PORT DESTINATION

PORT 25: PROPOSED COMMUNICATION NODE# 161043.8: SR-161 AT HAMILTON RD.
SEE SHEET 876
PORT 26: PROPOSED COMMUNICATION NODE# 161043.8: SR-161 AT HAMILTON RD.
SEE SHEET 876
PORT 2: INT# 3258: NEW ALBANY RD. AT SR-161 WB
SEE SHEET 816
PORT 13: INT# 3253: NEW ALBANY RD. AT NEW ALBANY RD. E.
SEE SHEET 814
PORT 14: INT# 3257: NEW ALBANY RD. AT SR-161 EB
SEE SHEET 817

LEGEND

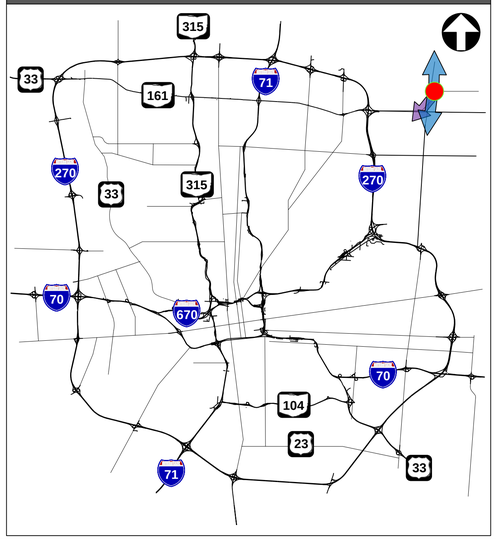
EQUIPMENT CABLE
- FIBER PATCH CABLES Tx/Tx
- CAT 5E CABLE
- FIBER PATCH CABLES Tx/Rx CROSSOVER
- EXISTING FIBER PATCH CABLES

INTERCONNECT CABLE
- 288 STRAND SMF CABLE
- CITYNET SMF CABLE
- 144 STRAND SMF CABLE
- D.O.T. SMF CABLE
- COLUMBUS FIBERNET SMF CABLE

FIBER SPLICING (DARK/LIGHT – PROPOSED/EXISTING)
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- FUSION SPLICE – PARTIAL BUFFER TUBE
- FUSION SPLICE – SINGLE FIBER
- COILED FIBER OR BUFFER TUBE

EQUIPMENT AND TERMINATION CABINET
- LH/ZX LH/ZX — GBIC OPTICAL TRANSCEIVER; LH - SHORT HAUL; ZX – LONG HAUL
- 8P8C CONNECTOR
- EMPTY SFP MODULE BAY
- LC TERMINATION – SINGLE FIBER
- LC TERMINATION – 12 FIBER BUFFER TUBE
- WIRELESS ETHERNET RADIO

KEY PLAN



NOTES

[1] PRE-TERMINATED 24SMF CABLE INSTALLED IN 4" CONDUIT CONNECTING CABINETS.

[2] PATCH PANEL DROP CABLES SHALL BE FACTORY PRE-TERMINATED AND OF SUFFICIENT LENGTH TO REACH ADJACENT UNDERGROUND OR OVERHEAD ENCLOSURE SPLICE LOCATION.

COMMUNICATION NODE 161045.6

REFER TO SHEET 590 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 627 FOR COMM OVERVIEW DETAILS

CIP: 540007 – 100012
PID NUMBER: 99733

PROPOSED COMMUNICATION NODE# 161045.6: SR-161 AT NEW ALBANY RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

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PROPOSED 48" PULL BOX

4 Cable Entries
288 Fusion Splices
2 Coiled Buffer Tubes

24SMF CABLE ODOT (Future)

CAP AND COIL 150' OF 24SMF FIBER OPTIC CABLE FOR FUTURE ODOT CONNECTION

288SMF CABLE WEST SR-161 BACKBONE

TO:
PROPOSED COMMUNICATION NODE# 161043.8: SR-161 AT HAMILTON RD.
SEE SHEET 877

144SMF DROP CABLE WEST SR-161 BACKBONE (CTSS)

144SMF DROP CABLE WEST SR-161 BACKBONE (DoT)

CLAMSHELL, 288 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE

TO:
INT# 3258: NEW ALBANY RD. AT SR-161 WB
SEE SHEET 816

TO:
INT# 3253: NEW ALBANY RD. AT NEW ALBANY RD. E.
SEE SHEET 814

5 Cable Entries
288 Fusion Splices
3 Coiled Buffer Tubes

144SMF CABLE NORTH NEW ALBANY RD TRUNK

24SMF CABLE ODOT (Future)

CAP AND COIL 150' OF 24SMF FIBER OPTIC CABLE FOR FUTURE ODOT CONNECTION

1-6 7-12 1-6 7-12 1-6 7-12 1-6 7-12

144SMF DROP CABLE (CTSS TRUNK)

144SMF DROP CABLE (DoT TRUNK)

144SMF CABLE SOUTH NEW ALBANY RD TRUNK

CLAMSHELL, 288 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE

TO:
INT# 3257: NEW ALBANY RD. AT SR-161 EB
SEE SHEET 817

MATCHLINE A - SEE SHEET 878

LEGEND

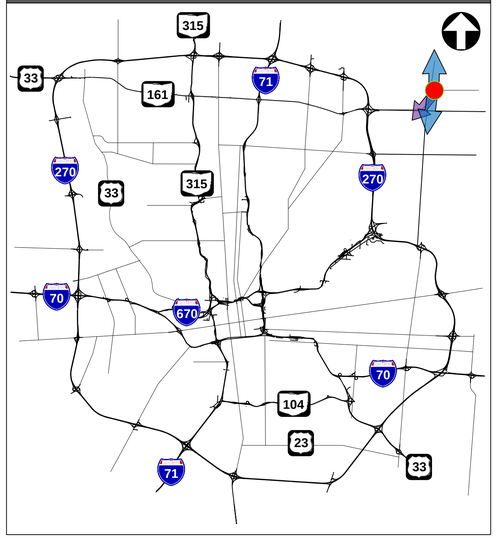
EQUIPMENT CABLE
- FIBER PATCH CABLES Tx/Tx
- CAT 5E CABLE
- FIBER PATCH CABLES Tx/Rx CROSSOVER
- EXISTING FIBER PATCH CABLES

INTERCONNECT CABLE
- 288 STRAND SMF CABLE
- CITYNET SMF CABLE
- 144 STRAND SMF CABLE
- D.O.T. SMF CABLE
- COLUMBUS FIBERNET SMF CABLE

FIBER SPLICING (DARK/LIGHT – PROPOSED/EXISTING)
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- FUSION SPLICE – PARTIAL BUFFER TUBE
- FUSION SPLICE – SINGLE FIBER
- COILED FIBER OR BUFFER TUBE

EQUIPMENT AND TERMINATION CABINET
- LH/ZX LH/ZX GBIC OPTICAL TRANSCEIVER — LH - SHORT HAUL, ZX – LONG HAUL
- 8P8C CONNECTOR
- EMPTY SFP MODULE BAY
- LC TERMINATION – SINGLE FIBER
- LC TERMINATION – 12 FIBER BUFFER TUBE
- WIRELESS ETHERNET RADIO

KEY PLAN



COMMUNICATION NODE 161045.6
REFER TO SHEET 590 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 627 FOR COMM OVERVIEW DETAILS

CIP: 540007 – 100012
PID NUMBER: 99733

PROPOSED COMMUNICATION NODE# 161045.6: SR-161 AT NEW ALBANY RD.
FIBER OPTIC SPLICING DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

COMMUNICATION NODE EQUIPMENT CABINET (#2)

LAYER 3 ETHERNET SWITCH

Ports: 1 2 3 4 5 6 7 8 9 10 11 12

SFP Modules: 1 (5 LH, 6 LH, 7 LH, 8 LH, 9 LH, 10 LH)

TO: CONTROL EQUIPMENT MONITOR

5 6 7 8 10

24 STRAND LC PATCH PANEL

24SMF DROP CABLE

24 STRAND LC PATCH PANEL

ETHERNET SWITCH PORT DESTINATION

PORT 5: EXISTING COMMUNICATION NODE# 070094.1: I-70 AT WILSON RD.

PORT 6: EXISTING COMMUNICATION NODE# 270009.3: I-70 AT TRABUE RD.

PORT 7: EXISTING COMMUNICATION NODE# 270004.5: I-270 AT GEORGESVILLE RD.

PORT 8: INT# 4223: FISHER RD. AT PHILLIPI RD.

PORT 9: INT# 4223: FISHER RD. AT PHILLIPI RD.

PORT 10: PROPOSED COMMUNICATION NODE# 070091.2: I-70 AT HILLIARD ROME RD.
SEE SHEET 860

COMMUNICATION NODE FIBER TERMINATION CABINET (#1)

MATCHLINE A - SEE SHEET 881

10

CTSS 4RU PATCH PANEL

WEST

BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE
RED TUBE
BLACK TUBE
YELLOW TUBE
VIOLET TUBE
ROSE TUBE
AQUA TUBE

144SMF DROP CABLE[2] WEST (CTSS BACKBONE)

144SMF DROP CABLE[2] WEST (DoT BACKBONE)

WEST

BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE
RED TUBE
BLACK TUBE
YELLOW TUBE
VIOLET TUBE
ROSE TUBE
AQUA TUBE

CTSS 4RU PATCH PANEL

8 9

CTSS 2RU PATCH PANEL

EXISTING 24SMF DROP CABLE EAST (CTSS TRUNK)

EAST

BLUE TUBE

SPLICE ENCLOSURE AT I-270 AND FISHER RD.

7

CTSS 144 STRAND LC PATCH PANEL

EXISTING 144SMF DROP CABLE SOUTH (CTSS TRUNK)

BLUE TUBE

5

CTSS 144 STRAND LC PATCH PANEL

EXISTING 144SMF DROP CABLE EAST (CTSS TRUNK)

BLUE TUBE

NODE# 070094.1
IR-70 AT WILSON RD.

6

CTSS 144 STRAND LC PATCH PA

EXISTING 144SMF DROP CABLE NORTH (CTSS TRUNK)

BLUE TUBE

NODE# 270009.3
IR-270 AT TRABUE RD.

NOTES

[2] PATCH PANEL DROP CABLES SHALL BE FACTORY PRE-TERMINATED AND OF SUFFICIENT LENGTH TO REACH ADJACENT UNDERGROUND OR OVERHEAD ENCLOSURE SPLICE LOCATION.

EXISTING 144 STRAND DoT DROP CABLES AND TERMINATION PANELS NOT SHOWN ON THIS SHEET FOR CLARITY. THOSE CABLES WILL NOT USED TO PERFORM ANY PROPOSED WORK SHOWN ABOVE.

LEGEND

EQUIPMENT CABLE

- FIBER PATCH CABLES Tx/Tx
- CAT 5E CABLE
- FIBER PATCH CABLES Tx/Rx CROSSOVER
- EXISTING FIBER PATCH CABLES

INTERCONNECT CABLE

- 288 STRAND SMF CABLE
- CITYNET SMF CABLE
- 144 STRAND SMF CABLE
- D.O.T. SMF CABLE
- COLUMBUS FIBERNET SMF CABLE

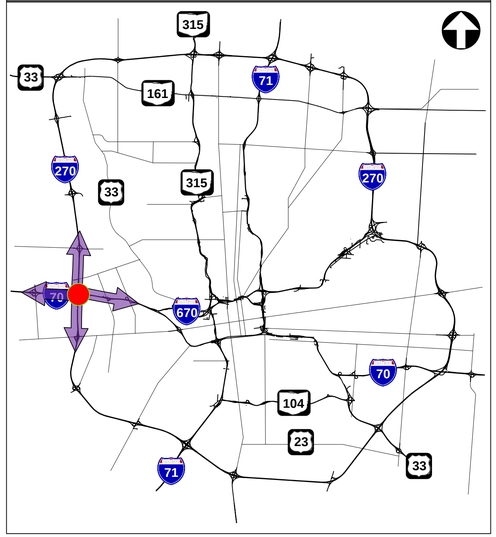
FIBER SPLICING (DARK/LIGHT – PROPOSED/EXISTING)

- FUSION SPLICE – 12 FIBER BUFFER TUBE
- FUSION SPLICE – PARTIAL BUFFER TUBE
- FUSION SPLICE – SINGLE FIBER
- COILED FIBER OR BUFFER TUBE

EQUIPMENT AND TERMINATION CABINET

- LH/ZX LH/ZX — GBIC OPTICAL TRANSCEIVER; LH - SHORT HAUL; ZX – LONG HAUL
- 8P8C CONNECTOR
- EMPTY SFP MODULE BAY
- LC TERMINATION – SINGLE FIBER
- LC TERMINATION – 12 FIBER BUFFER TUBE
- WIRELESS ETHERNET RADIO

KEY PLAN



COMMUNICATION NODE 270008.7

REFER TO SHEET 565 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 611 FOR COMM OVERVIEW DETAILS

CIP: 540007 – 100012
PID NUMBER: 99733

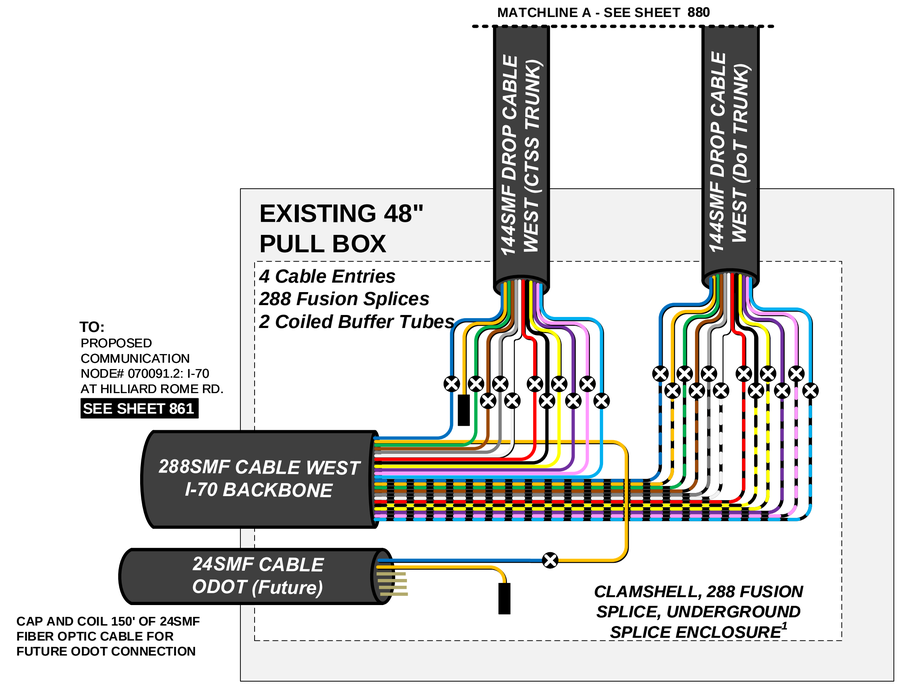
EXISTING COMMUNICATION NODE# 270008.7: I-270 AT I-70
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

J:\Jobs\63721 CTSS Phase E\TECH\PROD\Communications\Nodes\Phase E comm nodes.vsd - 270008.7 layout – last saved by: Sai Geetha Koganti 9/5/2018 5:24:02 PM – printed: 9/5/2018 5:24:02 PM

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MATCHLINE A - SEE SHEET 880



LEGEND

EQUIPMENT CABLE

- FIBER PATCH CABLES Tx/Tx
- CAT 5E CABLE
- FIBER PATCH CABLES Tx/Rx CROSSOVER
- EXISTING FIBER PATCH CABLES

INTERCONNECT CABLE

- 288 STRAND SMF CABLE
- CITYNET SMF CABLE
- 144 STRAND SMF CABLE
- D.O.T. SMF CABLE
- COLUMBUS FIBERNET SMF CABLE

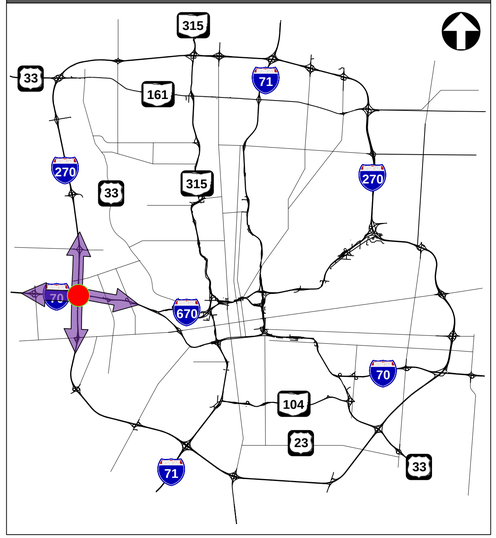
FIBER SPLICING (DARK/LIGHT – PROPOSED/EXISTING)

- FUSION SPLICE – 12 FIBER BUFFER TUBE
- FUSION SPLICE – PARTIAL BUFFER TUBE
- FUSION SPLICE – SINGLE FIBER
- COILED FIBER OR BUFFER TUBE

EQUIPMENT AND TERMINATION CABINET

- *LH/ZX* *LH/ZX* GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL ZX – LONG HAUL
- 8P8C CONNECTOR
- EMPTY SFP MODULE BAY
- LC TERMINATION – SINGLE FIBER
- LC TERMINATION – 12 FIBER BUFFER TUBE
- WIRELESS ETHERNET RADIO

KEY PLAN



[1]EACH CLAMSHELL, 288 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE MUST ACCOMMODATE 4 CABLE ENTRY PORTS, 288 FUSION SPLICES, AND 2 COILED BUFFER TUBES.

COMMUNICATION NODE 270008.7

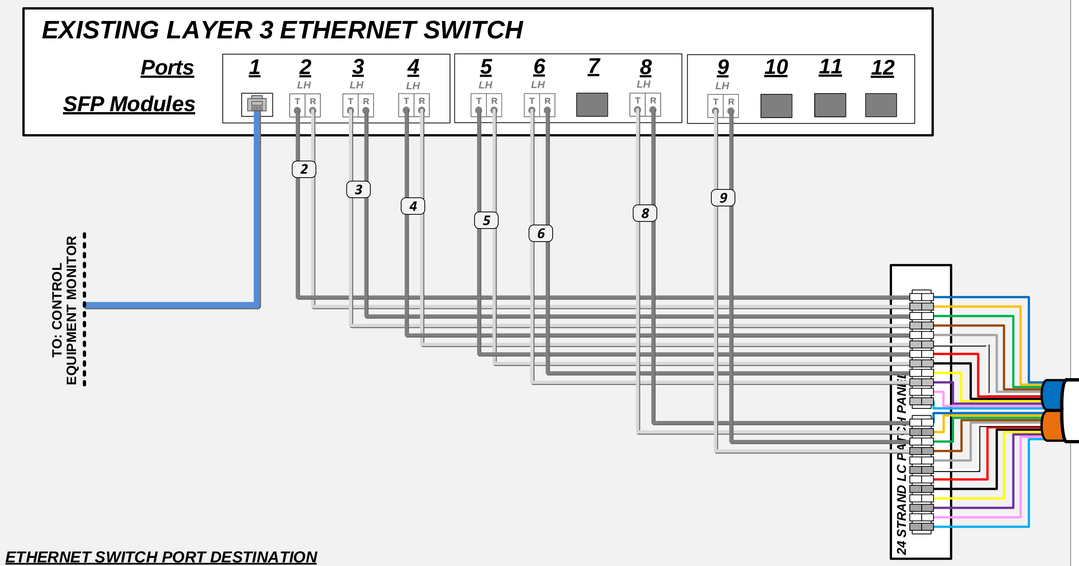
REFER TO SHEET 565 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 614 FOR COMM OVERVIEW DETAILS

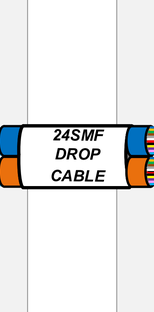
CIP: 540007 – 100012
PID NUMBER: 99733

EXISTING COMMUNICATION NODE# 270008.7: I-270 AT I-70
FIBER OPTIC SPLICING DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

COMMUNICATION NODE EQUIPMENT CABINET (#2)





ETHERNET SWITCH PORT DESTINATION

PORT 2: EXISTING COMMUNICATION NODE# 270010.5: I-270 AT ROBERTS RD.
SEE SHEET 883

PORT 3: EXISTING COMMUNICATION NODE# 270008.7: I-270 AT I-70
SEE SHEET 880

PORT 4: EXISTING CONNECTION – EXISTING COMMUNICATION NODE# 070094.1: I-70 AT WILSON RD.

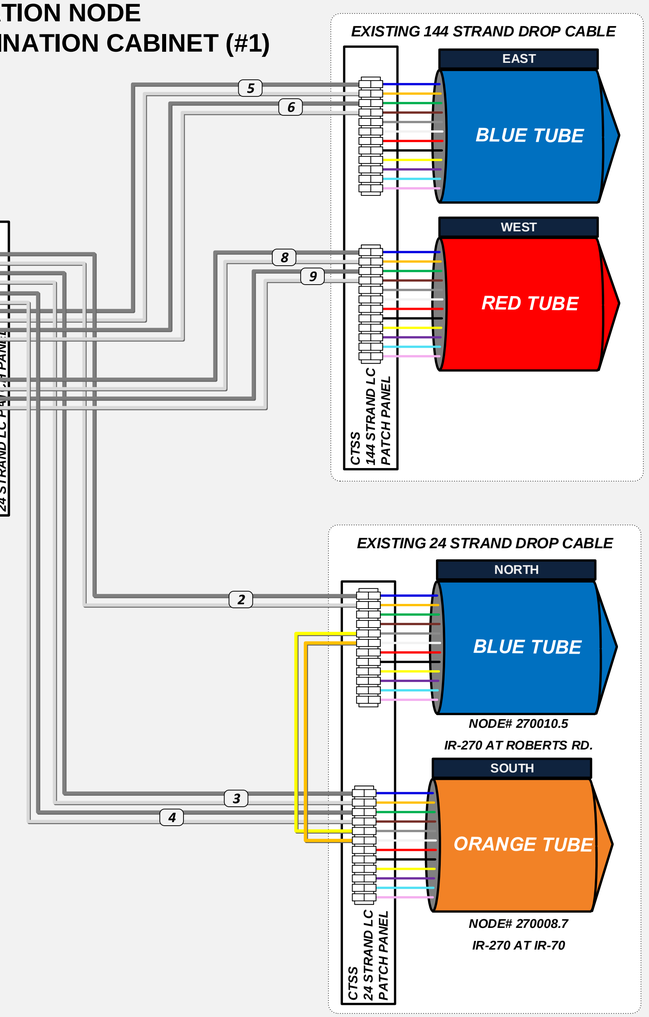
PORT 5: EXISTING CONNECTION – INT# SIG4165: HAGUE AVE. AT TRABUE RD.

PORT 6: EXISTING CONNECTION – INT# 4236: WILSON RD. AT TRABUE RD.

PORT 8: EXISTING CONNECTION – INT# SIG4895: TRABUE WOODS BLVD./ WESTBELT DR. AT TRABUE RD.

PORT 9: EXISTING CONNECTION – INT# SIG4895: TRABUE WOODS BLVD./ WESTBELT DR. AT TRABUE RD.

COMMUNICATION NODE FIBER TERMINATION CABINET (#1)



LEGEND

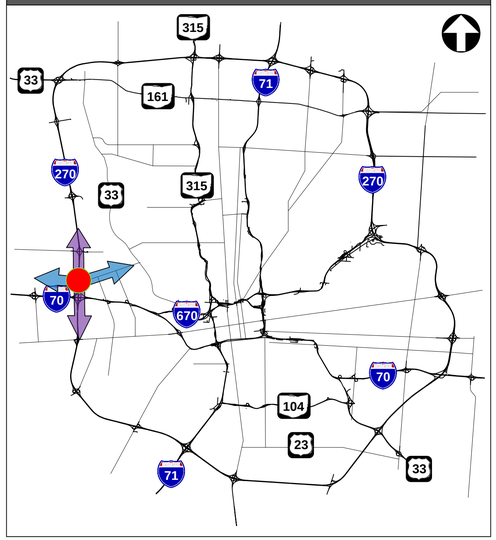
EQUIPMENT CABLE
- FIBER PATCH CABLES Tx/Tx
- CAT 5E CABLE
- FIBER PATCH CABLES Tx/Rx CROSSOVER
- EXISTING FIBER PATCH CABLES

INTERCONNECT CABLE
- 288 STRAND SMF CABLE
- CITYNET SMF CABLE
- 144 STRAND SMF CABLE
- D.O.T. SMF CABLE
- COLUMBUS FIBERNET SMF CABLE

FIBER SPLICING (DARK/LIGHT – PROPOSED/EXISTING)
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- FUSION SPLICE – PARTIAL BUFFER TUBE
- FUSION SPLICE – SINGLE FIBER
- COILED FIBER OR BUFFER TUBE

EQUIPMENT AND TERMINATION CABINET
- LH/ZX LH/ZX GBIC OPTICAL TRANSCEIVER
  LH - SHORT HAUL
  ZX – LONG HAUL
- 8P8C CONNECTOR
- EMPTY SFP MODULE BAY
- LC TERMINATION – SINGLE FIBER
- LC TERMINATION – 12 FIBER BUFFER TUBE
- WIRELESS ETHERNET RADIO

KEY PLAN



COMMUNICATION NODE 270009.3
REFER TO SHEET 614 FOR COMM OVERVIEW DETAILS

CIP: 540007 – 100012
PID NUMBER: 99733

EXISTING COMMUNICATION NODE# 270009.3: I-270 AT TRABUE RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

882
915

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COMMUNICATION NODE EQUIPMENT CABINET (#2)

EXISTING LAYER 3 ETHERNET SWITCH

Ports: 1 2 3 4 | 5 6 7 8 (LH) | 9 10 11 (LH) 12

TO: CONTROL EQUIPMENT MONITOR

ETHERNET SWITCH PORT DESTINATION

PORT 5: EXISTING COMMUNICATION NODE# 270012.6: I-270 AT CEMETERY RD.
SEE SHEET 885

PORT 6: EXISTING COMMUNICATION NODE# 270009.3: I-270 AT TRABUE RD.
SEE SHEET 882

PORT 7: PROPOSED COMMUNICATION NODE# 070091.2: I-70 AT HILLIARD ROME RD.
SEE SHEET 860

PORT 8: INT# 4151: I-270 NB AT ROBERTS RD.
SEE SHEET 659

PORT 9: INT# 4150: ROBERTS RD. AT WILSON RD.
SEE SHEET 660

PORT 10: INT# 4153: ROBERTS RD. AT WESTBELT DR.
SEE SHEET 657

PORT 11: INT# 4152: 1-270 SB AT ROBERTS RD.
SEE SHEET 658

24SMF DROP CABLE[1]

24 STRAND LC PATCH PANEL

COMMUNICATION NODE FIBER TERMINATION CABINET (#1)

MATCHLINE A - SEE SHEET 884

144SMF DROP CABLE[2] (CTSS TRUNK)
24SMF DROP CABLE[2] (I-270 BACKBONE) CTSS
144SMF DROP CABLE[2] (DoT TRUNK)
144SMF DROP CABLE[2] NORTH (I-270 BACKBONE) DoT
144SMF DROP CABLE[2] SOUTH (I-270 BACKBONE) DoT

CTSS 4RU PATCH PANEL
- EAST: BLUE TUBE, ORANGE TUBE, GREEN TUBE, BROWN TUBE, SLATE TUBE, WHITE TUBE
- WEST: RED TUBE, BLACK TUBE, YELLOW TUBE, VIOLET TUBE, ROSE TUBE, AQUA TUBE

CTSS 1RU PATCH PANEL
- SOUTH: BLUE TUBE
- NORTH: ORANGE TUBE

DoT 4RU PATCH PANEL
- SOUTH: BLUE TUBE, ORANGE TUBE, GREEN TUBE, BROWN TUBE, SLATE TUBE, WHITE TUBE, RED TUBE, BLACK TUBE, YELLOW TUBE, VIOLET TUBE, ROSE TUBE, AQUA TUBE
- NORTH: BLUE TUBE, ORANGE TUBE, GREEN TUBE, BROWN TUBE, SLATE TUBE, WHITE TUBE, RED TUBE, BLACK TUBE, YELLOW TUBE, VIOLET TUBE, ROSE TUBE, AQUA TUBE
- EAST: BLUE TUBE, ORANGE TUBE, GREEN TUBE, BROWN TUBE, SLATE TUBE, WHITE TUBE
- WEST: RED TUBE, BLACK TUBE, YELLOW TUBE, VIOLET TUBE, ROSE TUBE, AQUA TUBE

NOTES

[1] PRE-TERMINATED 24SMF CABLE INSTALLED IN 4" CONDUIT CONNECTING CABINETS.

[2] PATCH PANEL DROP CABLES SHALL BE FACTORY PRE-TERMINATED AND OF SUFFICIENT LENGTH TO REACH ADJACENT UNDERGROUND OR OVERHEAD ENCLOSURE SPLICE LOCATION.

3. DISCONNECT EXISTING LC FIBER PATCH CABLES BETWEEN EXISTING PATCH PANEL AND NETWORK SWITCH. REPLACE CONNECTION WITH PATCH CABLES AS SHOWN ON PLAN ABOVE.

LEGEND

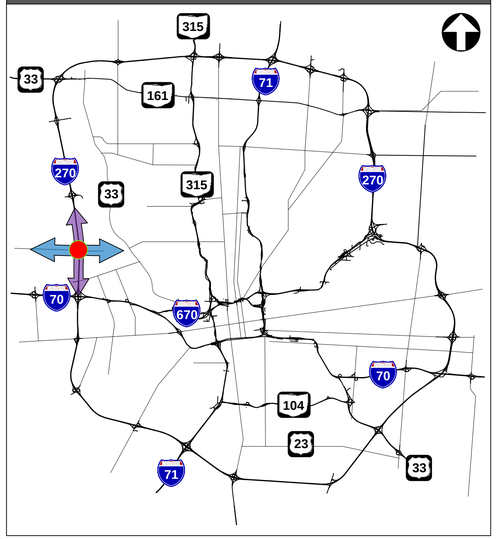
EQUIPMENT CABLE
- FIBER PATCH CABLES Tx/Tx
- CAT 5E CABLE
- FIBER PATCH CABLES Tx/Rx CROSSOVER
- EXISTING FIBER PATCH CABLES

INTERCONNECT CABLE
- 288 STRAND SMF CABLE
- CITYNET SMF CABLE
- 144 STRAND SMF CABLE
- D.O.T. SMF CABLE
- COLUMBUS FIBERNET SMF CABLE

FIBER SPLICING (DARK/LIGHT – PROPOSED/EXISTING)
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- FUSION SPLICE – PARTIAL BUFFER TUBE
- FUSION SPLICE – SINGLE FIBER
- COILED FIBER OR BUFFER TUBE

EQUIPMENT AND TERMINATION CABINET
- LH/ZX LH/ZX — GBIC OPTICAL TRANSCEIVER; LH - SHORT HAUL; ZX – LONG HAUL
- 8P8C CONNECTOR
- EMPTY SFP MODULE BAY
- LC TERMINATION – SINGLE FIBER
- LC TERMINATION – 12 FIBER BUFFER TUBE
- WIRELESS ETHERNET RADIO

KEY PLAN



COMMUNICATION NODE 270010.5
REFER TO SHEET 567 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 614 FOR COMM OVERVIEW DETAILS

CIP: 540007 – 100012
PID NUMBER: 99733

EXISTING COMMUNICATION NODE# 270010.5: I-270 AT ROBERTS RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

883
915

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EXISTING 48" PULL BOX

5 Cable Entries
288 Fusion Splices
3 Coiled Buffer Tubes

24SMF CABLE ODOT (Future)

CAP AND COIL 150' OF 24SMF FIBER OPTIC CABLE FOR FUTURE ODOT CONNECTION

1-6 7-12
1-6 7-12
1-6 7-12
1-6 7-12
1-6 7-12

144SMF CABLE EAST ROBERTS RD TRUNK

TO:
INT# 4151: I-270 NB AT ROBERTS RD.
SEE SHEET 659

TO:
EXISTING COMMUNICATION NODE# 270012.6: I-270 AT CEMETERY RD.

144SMF CABLE WEST ROBERTS RD TRUNK

TO:
INT# 4152: 1-270 SB AT ROBERTS RD.
SEE SHEET 658

CLAMSHELL, 288 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE

DOME, 800 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE

288SMF CABLE NORTH I-270 BACKBONE

EXISTING 12SMF CABLE (ODOT)

144SMF DROP CABLE (CTSS TRUNK)

24SMF DROP CABLE (I-270 BACKBONE) CTSS

144SMF DROP CABLE (DoT TRUNK)

144SMF DROP CABLE NORTH (I-270 BACKBONE) DoT

144SMF DROP CABLE SOUTH (I-270 BACKBONE) DoT

6 Cable Entries
288 Proposed Fusion Splices
336 Total Fusion Splices

TO:
EXISTING COMMUNICATION NODE# 270009.3: I-270 AT TRABUE RD.

288SMF CABLE SOUTH I-270 BACKBONE

MATCHLINE B - SEE SHEET 860

LEGEND

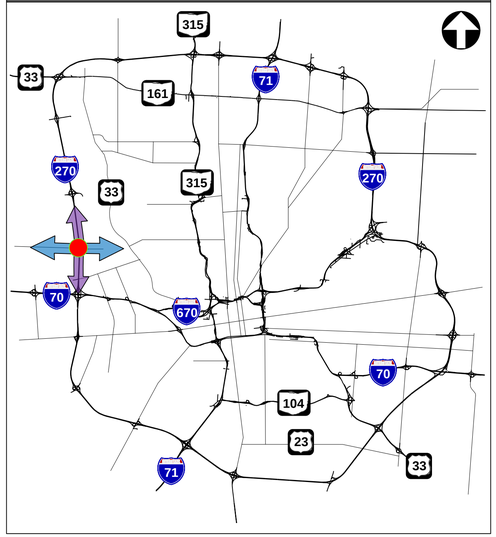
EQUIPMENT CABLE
- FIBER PATCH CABLES Tx/Tx
- CAT 5E CABLE
- FIBER PATCH CABLES Tx/Rx CROSSOVER
- EXISTING FIBER PATCH CABLES

INTERCONNECT CABLE
- 288 STRAND SMF CABLE
- CITYNET SMF CABLE
- 144 STRAND SMF CABLE
- D.O.T. SMF CABLE
- COLUMBUS FIBERNET SMF CABLE

FIBER SPLICING (DARK/LIGHT – PROPOSED/EXISTING)
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- FUSION SPLICE – PARTIAL BUFFER TUBE
- FUSION SPLICE – SINGLE FIBER
- COILED FIBER OR BUFFER TUBE

EQUIPMENT AND TERMINATION CABINET
- *LH/ZX* GBIC OPTICAL TRANSCEIVER
  LH - SHORT HAUL
  ZX – LONG HAUL
- 8P8C CONNECTOR
- EMPTY SFP MODULE BAY
- LC TERMINATION – SINGLE FIBER
- LC TERMINATION – 12 FIBER BUFFER TUBE
- WIRELESS ETHERNET RADIO

KEY PLAN



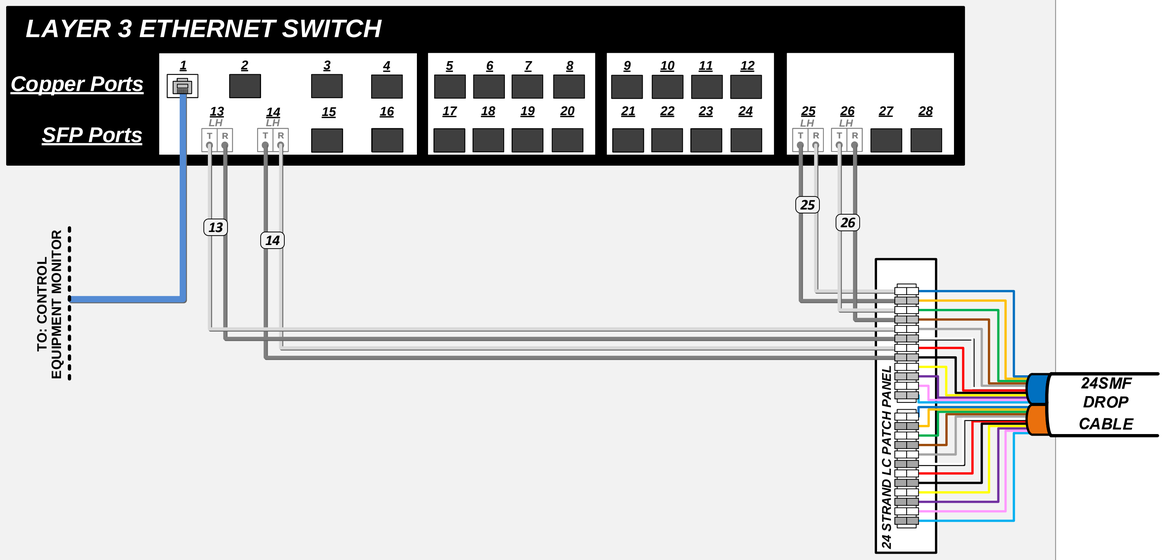
COMMUNICATION NODE 270010.5
REFER TO SHEET 567 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 614 FOR COMM OVERVIEW DETAILS

CIP: 540007 – 100012
PID NUMBER: 99733

EXISTING COMMUNICATION NODE# 270010.5: I-270 AT ROBERTS RD.
FIBER OPTIC SPLICING DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

COMMUNICATION NODE EQUIPMENT CABINET (#2)



TO:
EXISTING COMMUNICATION NODE FIBER TERMINATION CABINET (#1) AT NODE# 270012.6: I-270 AT CEMETERY RD.

REVISED ETHERNET SWITCH PORT DESTINATION

PORT 25: **EXISTING COMMUNICATION NODE# 270014.8: I-270 AT HAYDEN RUN RD.**
(Revised) SEE SHEET 886
PORT 26: EXISTING COMMUNICATION NODE# 270010.5: I-270 AT ROBERTS RD.
SEE SHEET 883
PORT 13: EXISTING CONNECTION – INT# 7002: TRUEMAN BLVD. AT FISHINGER BLVD.

PORT 14: EXISTING CONNECTION – INT# 7003: CEMETERY RD. AT I-270 NB OFF RAMP

LEGEND

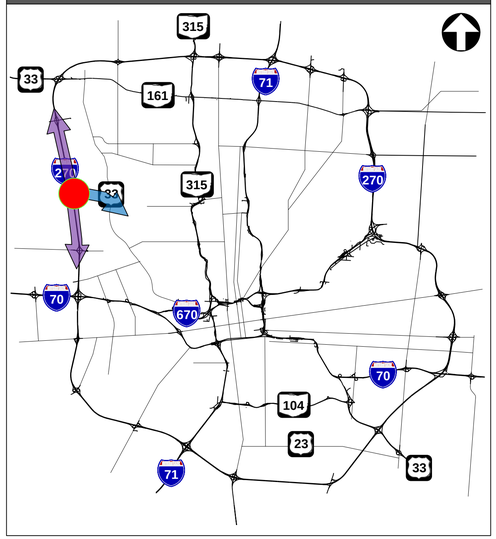
EQUIPMENT CABLE
- FIBER PATCH CABLES Tx/Tx
- CAT 5E CABLE
- FIBER PATCH CABLES Tx/Rx CROSSOVER
- EXISTING FIBER PATCH CABLES

INTERCONNECT CABLE
- 288 STRAND SMF CABLE
- CITYNET SMF CABLE
- 144 STRAND SMF CABLE
- D.O.T. SMF CABLE
- COLUMBUS FIBERNET SMF CABLE

FIBER SPLICING (DARK/LIGHT – PROPOSED/EXISTING)
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- FUSION SPLICE – PARTIAL BUFFER TUBE
- FUSION SPLICE – SINGLE FIBER
- COILED FIBER OR BUFFER TUBE

EQUIPMENT AND TERMINATION CABINET
- LH/ZX LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL ZX – LONG HAUL
- 8P8C CONNECTOR
- EMPTY SFP MODULE BAY
- LC TERMINATION – SINGLE FIBER
- LC TERMINATION – 12 FIBER BUFFER TUBE
- WIRELESS ETHERNET RADIO

KEY PLAN



NOTES:

1. NO NEW SPLICING OR PATCHING AT THIS COMMUNICATION NODE SITE. SHEET UPDATED TO REFLECT REVISED PORT DESTINATIONS.

COMMUNICATION NODE 270012.6
REFER TO SHEET 562 FOR QUANTITY DETAILS
REFER TO SHEET 613 FOR COMM OVERVIEW DETAILS

CIP: 540007 – 100012
PID NUMBER: 99733

EXISTING COMMUNICATION NODE# 270012.6: I-270 AT CEMETERY RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

885
915

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EXISTING COMMUNICATION NODE EQUIPMENT CABINET (#2)

EXISTING LAYER 3 ETHERNET SWITCH

Ports: 1 2 3 4 | 5 LH 6 LH 7 LH 8 LH | 9 10 11 12

TO: CONTROL EQUIPMENT MONITOR

EXISTING WIRELESS LINK TO INT# 4258: EDWARDS FARMS RD. AT HAYDEN RUN RD. SEE SHEET 675

24SMF DROP CABLE[1]

24 STRAND LC PATCH PANEL

ETHERNET SWITCH PORT DESTINATION

PORT 2: INT# 4258: EDWARDS FARMS RD. AT HAYDEN RUN RD.
SEE SHEET 675

PORT 5: EXISTING COMMUNICATION NODE# 270012.6: I-270 AT CEMETERY RD.
SEE SHEET 885

PORT 6: EXISTING COMMUNICATION NODE# 270015.6: I-270 AT TUTTLES CROSSING BLVD.
SEE SHEET 888

PORT 7: INT# 4252: BOW FALLS BLVD. / LEPPERT RD. AT HAYDEN RUN RD.
SEE SHEET 673

PORT 8: INT# SIG4780: AVERY RD. AT HAYDEN RUN RD.
SEE SHEET 674

EXISTING COMMUNICATION NODE FIBER TERMINATION CABINET (#1)

MATCHLINE A - SEE SHEET 887

144SMF DROP CABLE[2] (CTSS TRUNK)

24SMF DROP CABLE[2] (I-270 BACKBONE) CTSS

144SMF DROP CABLE[2] (DoT TRUNK)

144SMF DROP CABLE[2] NORTH (I-270 BACKBONE) DoT

144SMF DROP CABLE[2] SOUTH (I-270 BACKBONE) DoT

CTSS 4RU PATCH PANEL

CTSS 1RU PATCH PANEL

DoT 4RU PATCH PANEL

WEST: BLUE TUBE, ORANGE TUBE, GREEN TUBE, BROWN TUBE, SLATE TUBE, WHITE TUBE

SPARE: RED TUBE, BLACK TUBE, YELLOW TUBE, VIOLET TUBE, ROSE TUBE, AQUA TUBE

NORTH: BLUE TUBE

SOUTH: ORANGE TUBE

SOUTH: BLUE TUBE, ORANGE TUBE, GREEN TUBE, BROWN TUBE, SLATE TUBE, WHITE TUBE, RED TUBE, BLACK TUBE, YELLOW TUBE, VIOLET TUBE, ROSE TUBE, AQUA TUBE

NORTH: BLUE TUBE, ORANGE TUBE, GREEN TUBE, BROWN TUBE, SLATE TUBE, WHITE TUBE, RED TUBE, BLACK TUBE, YELLOW TUBE, VIOLET TUBE, ROSE TUBE, AQUA TUBE

WEST: BLUE TUBE, ORANGE TUBE, GREEN TUBE, BROWN TUBE, SLATE TUBE, WHITE TUBE

SPARE: RED TUBE, BLACK TUBE, YELLOW TUBE, VIOLET TUBE, ROSE TUBE, AQUA TUBE

NOTES

[1] PRE-TERMINATED 24SMF CABLE INSTALLED IN 4" CONDUIT CONNECTING CABINETS.

[2] PATCH PANEL DROP CABLES SHALL BE FACTORY PRE-TERMINATED AND OF SUFFICIENT LENGTH TO REACH ADJACENT UNDERGROUND OR OVERHEAD ENCLOSURE SPLICE LOCATION.

3. DISCONNECT EXISTING LC FIBER PATCH CABLES BETWEEN EXISTING PATCH PANEL AND NETWORK SWITCH. REPLACE CONNECTION WITH PATCH CABLES AS SHOWN ON PLAN ABOVE.

LEGEND

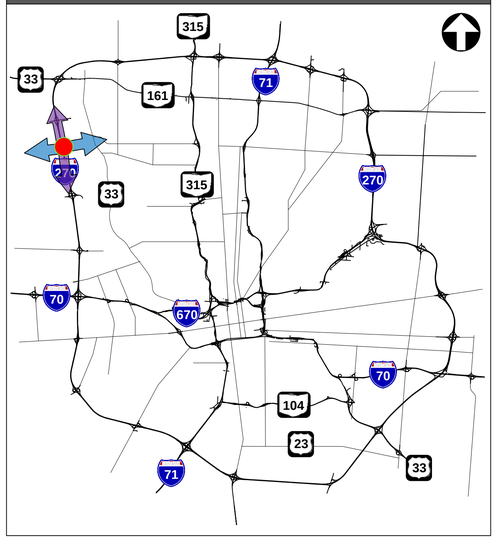
EQUIPMENT CABLE
- FIBER PATCH CABLES Tx/Tx
- CAT 5E CABLE
- FIBER PATCH CABLES Tx/Rx CROSSOVER
- EXISTING FIBER PATCH CABLES

INTERCONNECT CABLE
- 288 STRAND SMF CABLE
- CITYNET SMF CABLE
- 144 STRAND SMF CABLE
- D.O.T. SMF CABLE
- COLUMBUS FIBERNET SMF CABLE

FIBER SPLICING (DARK/LIGHT – PROPOSED/EXISTING)
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- FUSION SPLICE – PARTIAL BUFFER TUBE
- FUSION SPLICE – SINGLE FIBER
- COILED FIBER OR BUFFER TUBE

EQUIPMENT AND TERMINATION CABINET
- LH/ZX LH/ZX GBIC OPTICAL TRANSCEIVER
  LH - SHORT HAUL
  ZX – LONG HAUL
- 8P8C CONNECTOR
- EMPTY SFP MODULE BAY
- LC TERMINATION – SINGLE FIBER
- LC TERMINATION – 12 FIBER BUFFER TUBE
- WIRELESS ETHERNET RADIO

KEY PLAN



COMMUNICATION NODE 270014.8

REFER TO SHEET 604 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 613 FOR COMM OVERVIEW DETAILS

CIP: 540007 – 100012
PID NUMBER: 99733

COMMUNICATION NODE# 270014.8: I-270 AT HAYDEN RUN RD.
COMMUNICATIONS DIAGRAM

EXISTING COMMUNICATIONS

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

886
915

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EXISTING 48" PULL BOX

4 Cable Entries
144 Fusion Splices
15 Coiled Buffer Tubes

24SMF CABLE ODOT (Future)

CAP AND COIL 150' OF 24SMF FIBER OPTIC CABLE FOR FUTURE ODOT CONNECTION

1-6 7-12

1-6 7-12

1-6 7-12

144SMF CABLE WEST HAYDEN RUN RD TRUNK

TO:
INT# SIG4780: AVERY RD. AT HAYDEN RUN RD.
SEE SHEET 674

CLAMSHELL, 288 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE

144SMF DROP CABLE (CTSS TRUNK)

24SMF DROP CABLE (I-270 BACKBONE) CTSS

144SMF DROP CABLE (DoT TRUNK)

144SMF DROP CABLE NORTH (I-270 BACKBONE) DoT

144SMF DROP CABLE SOUTH (I-270 BACKBONE) DoT

DOME, 800 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE

6 Cable Entries
288 Proposed Fusion Splices
336 Total Fusion Splices

TO:
EXISTING COMMUNICATION NODE#: 270015.6: IR-270 AT TUTTLE CROSSING BLVD.

288SMF CABLE NORTH I-270 BACKBONE

EXISTING 12SMF CABLE (ODOT)

288SMF CABLE SOUTH I-270 BACKBONE

TO:
EXISTING COMMUNICATION NODE# 270012.6: I-270 AT CEMETARY RD.

MATCHLINE B - SEE SHEET 886

LEGEND

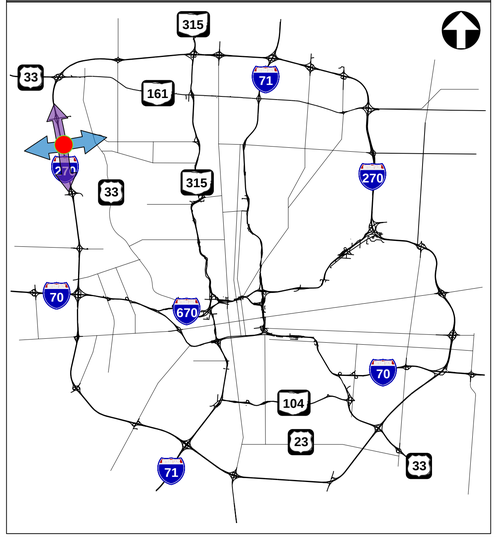
EQUIPMENT CABLE
- FIBER PATCH CABLES Tx/Tx
- CAT 5E CABLE
- FIBER PATCH CABLES Tx/Rx CROSSOVER
- EXISTING FIBER PATCH CABLES

INTERCONNECT CABLE
- 288 STRAND SMF CABLE
- CITYNET SMF CABLE
- 144 STRAND SMF CABLE
- D.O.T. SMF CABLE
- COLUMBUS FIBERNET SMF CABLE

FIBER SPLICING (DARK/LIGHT – PROPOSED/EXISTING)
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- FUSION SPLICE – PARTIAL BUFFER TUBE
- FUSION SPLICE – SINGLE FIBER
- COILED FIBER OR BUFFER TUBE

EQUIPMENT AND TERMINATION CABINET
- LH/ZX LH/ZX — GBIC OPTICAL TRANSCEIVER; LH - SHORT HAUL; ZX – LONG HAUL
- 8P8C CONNECTOR
- EMPTY SFP MODULE BAY
- LC TERMINATION – SINGLE FIBER
- LC TERMINATION – 12 FIBER BUFFER TUBE
- WIRELESS ETHERNET RADIO

KEY PLAN



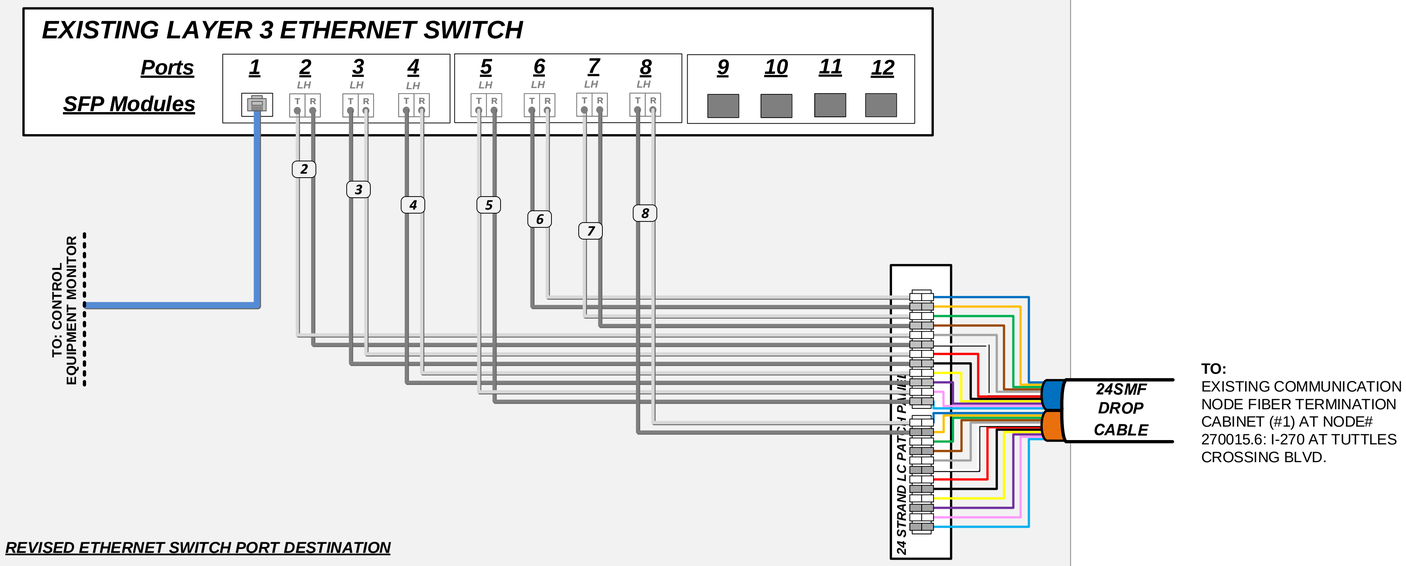
COMMUNICATION NODE 270014.8
REFER TO SHEET 604 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 613 FOR COMM OVERVIEW DETAILS

CIP: 540007 – 100012
PID NUMBER: 99733

EXISTING COMMUNICATION NODE# 270014.8: I-270 AT HAYDEN RUN RD.
FIBER OPTIC SPLICING DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

COMMUNICATION NODE EQUIPMENT CABINET (#2)



TO:
EXISTING COMMUNICATION NODE FIBER TERMINATION CABINET (#1) AT NODE# 270015.6: I-270 AT TUTTLES CROSSING BLVD.

REVISED ETHERNET SWITCH PORT DESTINATION

PORT 2: EXISTING CONNECTION – INT# 4203: BLAZER PKWY. AT TUTTLE CROSSING BLVD.

PORT 3: EXISTING CONNECTION – INT# 4202: IR-270 NB RAMPS AT TUTTLE CROSSING BLVD.

PORT 4: EXISTING CONNECTION – INT# 4201: IR-270 SB RAMPS AT TUTTLE CROSSING BLVD.

PORT 5: EXISTING CONNECTION – INT# 4200: BRITTON PKWY./ EMERALD PKWY. AT TUTTLE CROSSING BLVD.

PORT 6: EXISTING CONNECTION – EXISTING COMMUNICATION NODE# 270017.3: I-270 AT US-33/ DUBLIN RD.

PORT 7: **EXISTING COMMUNICATION NODE# 270014.8: I-270 AT HAYDEN RUN RD.**
(Revised) SEE SHEET 886

PORT 8: EXISTING CONNECTION – REPETER R-01: I-270 AT HAYDEN RUN RD.

LEGEND

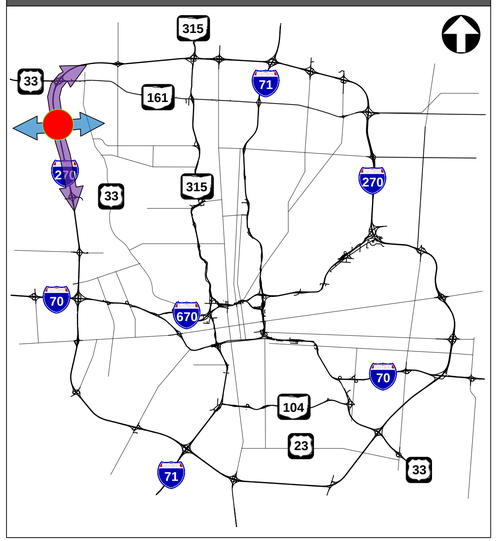
EQUIPMENT CABLE
- FIBER PATCH CABLES Tx/Tx
- CAT 5E CABLE
- FIBER PATCH CABLES Tx/Rx CROSSOVER
- EXISTING FIBER PATCH CABLES

INTERCONNECT CABLE
- 288 STRAND SMF CABLE
- CITYNET SMF CABLE
- 144 STRAND SMF CABLE
- D.O.T. SMF CABLE
- COLUMBUS FIBERNET SMF CABLE

FIBER SPLICING (DARK/LIGHT – PROPOSED/EXISTING)
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- FUSION SPLICE – PARTIAL BUFFER TUBE
- FUSION SPLICE – SINGLE FIBER
- COILED FIBER OR BUFFER TUBE

EQUIPMENT AND TERMINATION CABINET
- *LH/ZX LH/ZX* GBIC OPTICAL TRANSCEIVER
  LH - SHORT HAUL
  ZX – LONG HAUL
- 8P8C CONNECTOR
- EMPTY SFP MODULE BAY
- LC TERMINATION – SINGLE FIBER
- LC TERMINATION – 12 FIBER BUFFER TUBE
- WIRELESS ETHERNET RADIO

KEY PLAN



NOTES:

1. NO NEW SPLICING OR PATCHING AT THIS COMMUNICATION NODE SITE. SHEET UPDATED TO REFLECT REVISED PORT DESTINATIONS.

COMMUNICATION NODE 270015.6
REFER TO SHEET 613 FOR COMM OVERVIEW DETAILS

CIP: 540007 – 100012
PID NUMBER: 99733

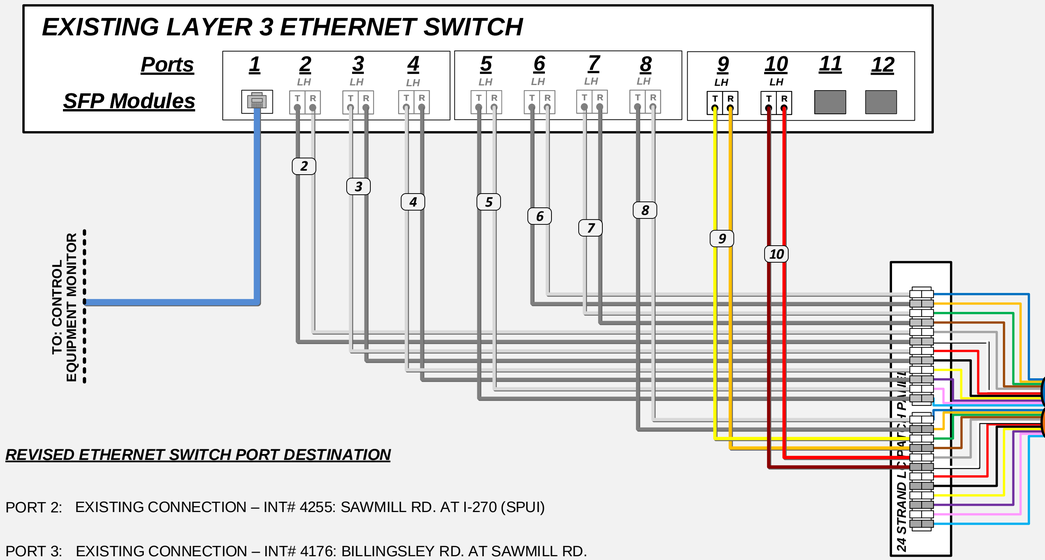
EXISTING COMMUNICATION NODE# 270015.6: I-270 AT TUTTLES CROSSING BLVD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

888
915

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COMMUNICATION NODE EQUIPMENT CABINET (#2)



REVISED ETHERNET SWITCH PORT DESTINATION

PORT 2: EXISTING CONNECTION – INT# 4255: SAWMILL RD. AT I-270 (SPUI)

PORT 3: EXISTING CONNECTION – INT# 4176: BILLINGSLEY RD. AT SAWMILL RD.

PORT 4: EXISTING CONNECTION – INT# 4170: FEDERATED BLVD./ VILLAGE PKWY. AT SAWMILL RD.

PORT 5: EXISTING CONNECTION – INT# 4144: SAWMILL RD. AT SNOUFFER RD.

PORT 6: EXISTING COMMUNICATION NODE# 270022.7: I-270 AT SR-315
SEE SHEET 890

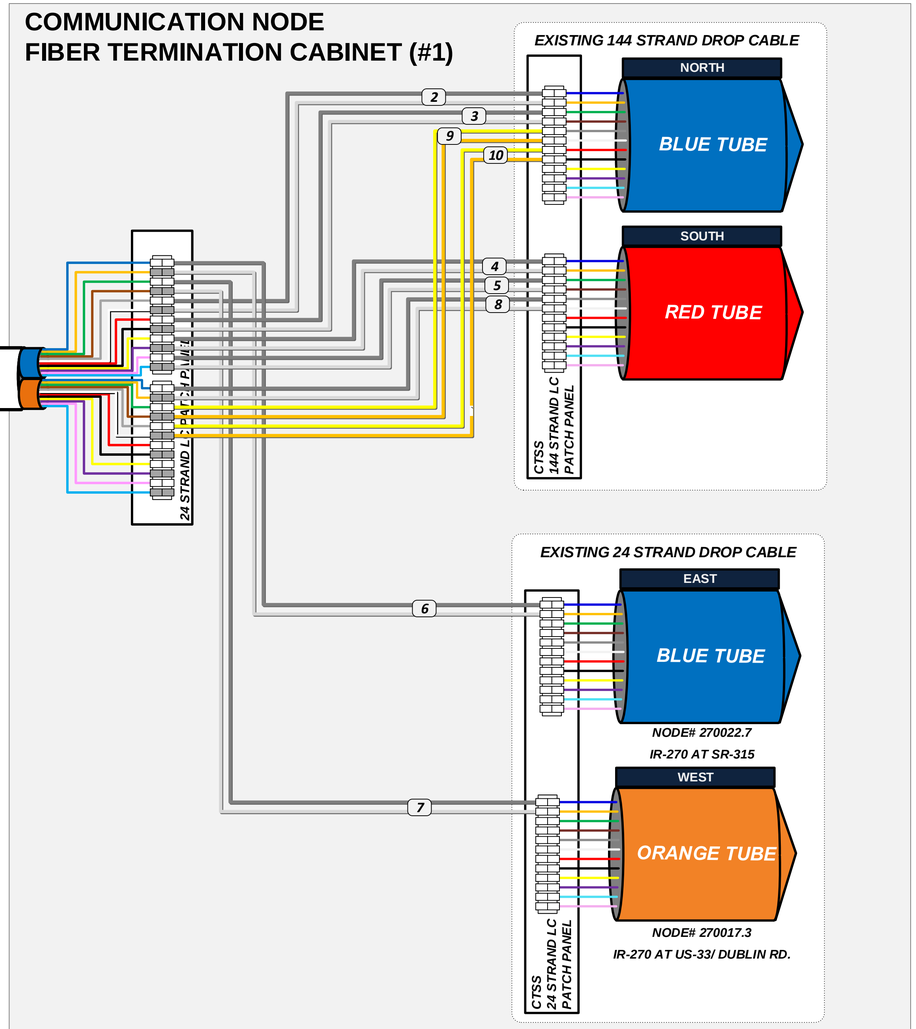
PORT 7: EXISTING COMMUNICATION NODE 270017.3: I-270 AT US-33/DUBLIN RD.

PORT 8: EXISTING CONNECTION – INT# 4168: BETHEL RD. AT CARRIAGE PLACE SHOPPING CENTER

PORT 9: INT# 4243: FOXBORO LN. AT HARD RD.
SEE SHEET 681

PORT 10: INT# 4227: HARD RD. AT STANBURN RD.
SEE SHEET 678

COMMUNICATION NODE FIBER TERMINATION CABINET (#1)



LEGEND

EQUIPMENT CABLE

- FIBER PATCH CABLES Tx/Tx
- FIBER PATCH CABLES Tx/Rx CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE

INTERCONNECT CABLE

- 288 STRAND SMF CABLE
- 144 STRAND SMF CABLE
- COLUMBUS FIBERNET SMF CABLE
- CITYNET SMF CABLE
- D.O.T. SMF CABLE

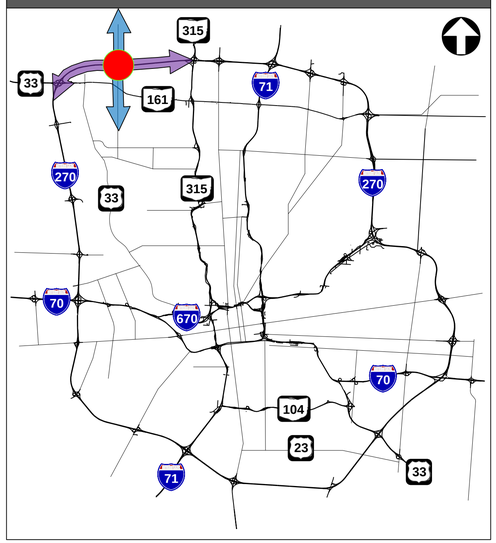
FIBER SPLICING (DARK/LIGHT – PROPOSED/EXISTING)

- FUSION SPLICE – 12 FIBER BUFFER TUBE
- FUSION SPLICE – PARTIAL BUFFER TUBE
- FUSION SPLICE – SINGLE FIBER
- COILED FIBER OR BUFFER TUBE

EQUIPMENT AND TERMINATION CABINET

- LH/ZX LH/ZX — GBIC OPTICAL TRANSCEIVER; LH - SHORT HAUL; ZX – LONG HAUL
- 8P8C CONNECTOR
- EMPTY SFP MODULE BAY
- LC TERMINATION – SINGLE FIBER
- LC TERMINATION – 12 FIBER BUFFER TUBE
- WIRELESS ETHERNET RADIO

KEY PLAN



COMMUNICATION NODE 270019.8

REFER TO SHEET 562 FOR QUANTITY DETAILS
REFER TO SHEET 615 FOR COMM OVERVIEW DETAILS

CIP: 540007 – 100012
PID NUMBER: 99733

EXISTING COMMUNICATION NODE# 270019.8: I-270 AT SAWMILL RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

889
915

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COMMUNICATION NODE EQUIPMENT CABINET (#2)

EXISTING LAYER 3 ETHERNET SWITCH

Ports 1 2 3 4 LH 5 LH 6 LH 7 LH 8 LH 9 10 11 12

TO: CONTROL EQUIPMENT MONITOR

4 5 6 7 8

24 STRAND LC PATCH PANEL

24SMF DROP CABLE[1]

24 STRAND LC PATCH PANEL

ETHERNET SWITCH PORT DESTINATION

PORT 4: EXISTING COMMUNICATION NODE# 270019.8: I-270 AT SAWMILL RD.
SEE SHEET 889

PORT 5: EXISTING COMMUNICATION NODE 315008.6: SR-315 AT BETHEL RD.

PORT 6: EXISTING COMMUNICATION NODE 270023.6: IR-270 AT US-23.

PORT 7: INT# 4204: OLENTANGY RIVER RD. / MASON PL. AT SR-315
SEE SHEET 688

PORT 8: INT# 4219: LINWORTH RD. AT PARSIPHONY PL. / WILSON BRIDGE RD.
SEE SHEET 690

LEGEND

EQUIPMENT CABLE

- FIBER PATCH CABLES Tx/Tx
- FIBER PATCH CABLES Tx/Rx CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE

INTERCONNECT CABLE

- 288 STRAND SMF CABLE
- 144 STRAND SMF CABLE
- COLUMBUS FIBERNET SMF CABLE
- CITYNET SMF CABLE
- D.O.T. SMF CABLE

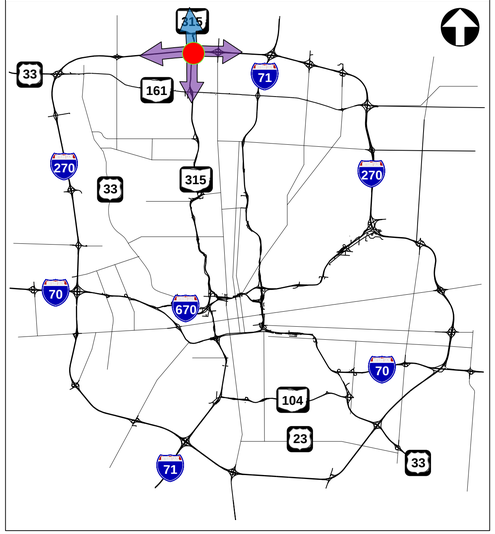
FIBER SPLICING (DARK/LIGHT – PROPOSED/EXISTING)

- FUSION SPLICE – 12 FIBER BUFFER TUBE
- FUSION SPLICE – PARTIAL BUFFER TUBE
- FUSION SPLICE – SINGLE FIBER
- COILED FIBER OR BUFFER TUBE

EQUIPMENT AND TERMINATION CABINET

- LH/ZX — GBIC OPTICAL TRANSCEIVER; LH - SHORT HAUL; ZX – LONG HAUL
- 8P8C CONNECTOR
- EMPTY SFP MODULE BAY
- LC TERMINATION – SINGLE FIBER
- LC TERMINATION – 12 FIBER BUFFER TUBE
- WIRELESS ETHERNET RADIO

KEY PLAN



MATCHLINE A - SEE SHEET 892

COMMUNICATION NODE FIBER TERMINATION CABINET (#1)

144SMF DROP CABLE WEST (CTSS BACKBONE)

144SMF DROP CABLE[2] NORTH (CTSS BACKBONE)

144SMF DROP CABLE SOUTH (CTSS BACKBONE)

144SMF DROP CABLE EAST (CTSS BACKBONE)

4 7 8

CTSS 4RU PATCH PANEL A B C D E F

WEST: BLUE TUBE, ORANGE TUBE, GREEN TUBE, BROWN TUBE, SLATE TUBE, WHITE TUBE, RED TUBE, BLACK TUBE, YELLOW TUBE, VIOLET TUBE, ROSE TUBE, AQUA TUBE

CTSS 4RU PATCH PANEL G H J K L M

NORTH: BLUE TUBE, ORANGE TUBE, GREEN TUBE, BROWN TUBE, SLATE TUBE, WHITE TUBE

SPARE: RED TUBE, BLACK TUBE, YELLOW TUBE, VIOLET TUBE, ROSE TUBE, AQUA TUBE

6

CTSS 4RU PATCH PANEL N P Q R S T

EAST: BLUE TUBE, ORANGE TUBE, GREEN TUBE, BROWN TUBE, SLATE TUBE, WHITE TUBE, RED TUBE, BLACK TUBE, YELLOW TUBE, VIOLET TUBE, ROSE TUBE, AQUA TUBE

5

CTSS 4RU PATCH PANEL U V W X Y Z

SOUTH: BLUE TUBE, ORANGE TUBE, GREEN TUBE, BROWN TUBE, SLATE TUBE, WHITE TUBE, RED TUBE, BLACK TUBE, YELLOW TUBE, VIOLET TUBE, ROSE TUBE, AQUA TUBE

NOTES

DoT TERMINATION PANELS SHOWN ON SHEET **891**

[2] PATCH PANEL DROP CABLES SHALL BE FACTORY PRE-TERMINATED AND OF SUFFICIENT LENGTH TO REACH ADJACENT UNDERGROUND OR OVERHEAD ENCLOSURE SPLICE LOCATION.

COMMUNICATION NODE 270022.7

REFER TO SHEET 592 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 615 FOR COMM OVERVIEW DETAILS

CIP: 540007 – 100012
PID NUMBER: 99733

EXISTING COMMUNICATION NODE# 270022.7: I-270 AT SR-315
COMMUNICATIONS DIAGRAM

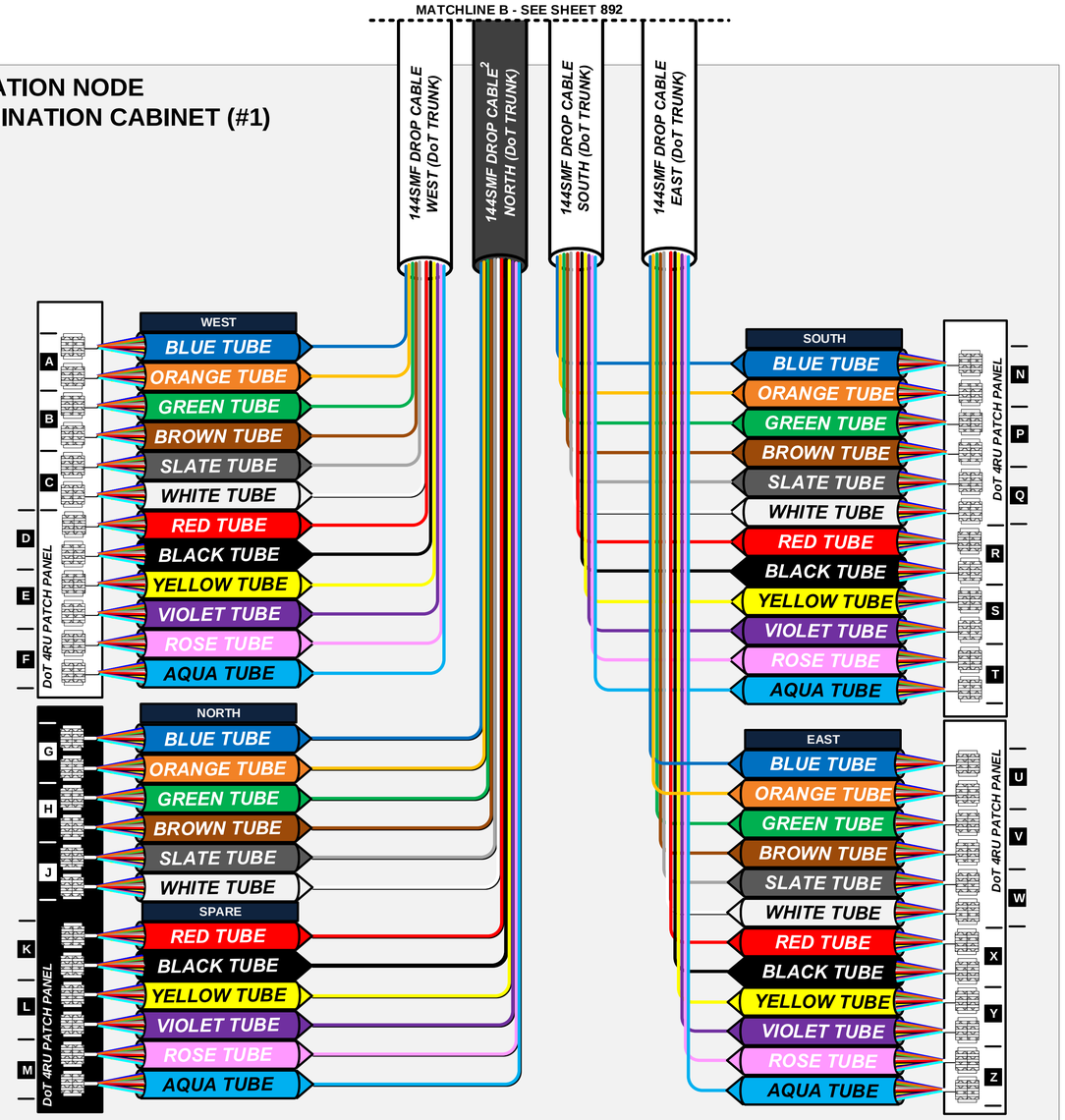
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

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MATCHLINE B - SEE SHEET 892

COMMUNICATION NODE
FIBER TERMINATION CABINET (#1)



LEGEND

EQUIPMENT CABLE

- FIBER PATCH CABLES Tx/Tx
- CAT 5E CABLE
- FIBER PATCH CABLES Tx/Rx CROSSOVER
- EXISTING FIBER PATCH CABLES

INTERCONNECT CABLE

- 288 STRAND SMF CABLE
- CITYNET SMF CABLE
- 144 STRAND SMF CABLE
- D.O.T. SMF CABLE
- COLUMBUS FIBERNET SMF CABLE

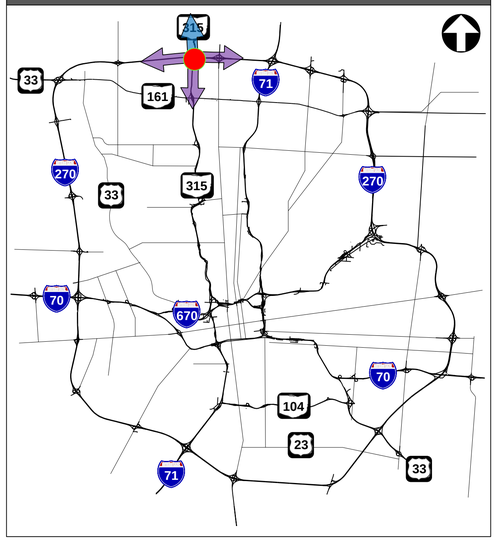
FIBER SPLICING (DARK/LIGHT – PROPOSED/EXISTING)

- FUSION SPLICE – 12 FIBER BUFFER TUBE
- FUSION SPLICE – PARTIAL BUFFER TUBE
- FUSION SPLICE – SINGLE FIBER
- COILED FIBER OR BUFFER TUBE

EQUIPMENT AND TERMINATION CABINET

- LH/ZX LH/ZX — GBIC OPTICAL TRANSCEIVER; LH - SHORT HAUL; ZX – LONG HAUL
- 8P8C CONNECTOR
- EMPTY SFP MODULE BAY
- LC TERMINATION – SINGLE FIBER
- LC TERMINATION – 12 FIBER BUFFER TUBE
- WIRELESS ETHERNET RADIO

KEY PLAN



NOTES

CTSS TERMINATION PANELS SHOWN ON SHEET **890**

[2] PATCH PANEL DROP CABLES SHALL BE FACTORY PRE-TERMINATED AND OF SUFFICIENT LENGTH TO REACH ADJACENT UNDERGROUND OR OVERHEAD ENCLOSURE SPLICE LOCATION.

COMMUNICATION NODE 270022.7

REFER TO SHEET 592 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 615 FOR COMM OVERVIEW DETAILS

CIP: 540007 – 100012
PID NUMBER: 99733

EXISTING COMMUNICATION NODE# 270022.7: I-270 AT SR-315
FIBER OPTIC SPLICING DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

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MATCHLINE A - SEE SHEET 890

MATCHLINE B - SEE SHEET 891

CAP AND COIL 150' OF 24SMF FIBER OPTIC CABLE FOR FUTURE ODOT CONNECTION

TO:
INT# 6801: OLENTANGY RIVER RD. AT SR-315
SEE SHEET 687

144SMF DROP CABLE WEST (CTSS TRUNK)

144SMF DROP CABLE NORTH (CTSS TRUNK)

144SMF DROP CABLE SOUTH (CTSS TRUNK)

144SMF DROP CABLE EAST (CTSS TRUNK)

144SMF DROP CABLE WEST (DoT TRUNK)

24SMF CABLE ODOT (Future)

144SMF CABLE NORTH SR-315 TRUNK

144SMF DROP CABLE NORTH (DoT TRUNK)

144SMF DROP CABLE SOUTH (DoT TRUNK)

144SMF DROP CABLE EAST (DoT TRUNK)

EXISTING 48" PULL BOX

4 Cable Entries
144 Fusion Splices
15 Coiled Buffer Tubes

1-6
7-12
1-6
7-12
1-6
7-12

CLAMSHELL, 144 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE

TO:
EXISTING COMMUNICATION NODE#: 270019.8: IR-270 AT SAWMILL RD.

288SMF CABLE WEST I-270 BACKBONE

12SMF CABLE ODOT

EXISTING UNDERGROUND SPLICE ENCLOSURE

288SMF CABLE EAST I-270 BACKBONE

TO:
EXISTING COMMUICATION NODE# 270023.6: US-23 AT IR-270.

EXISTING UNDERGROUND SPLICE ENCLOSURE

12SMF CABLE ODOT

12SMF CABLE ODOT

288SMF CABLE SOUTH SR-315 BACKBONE

EXISTING UNDERGROUND SPLICE ENCLOSURE

TO:
EXISTING COMMUNICATION NODE#: 315008.6: SR-315 AT BETHEL RD.

LEGEND

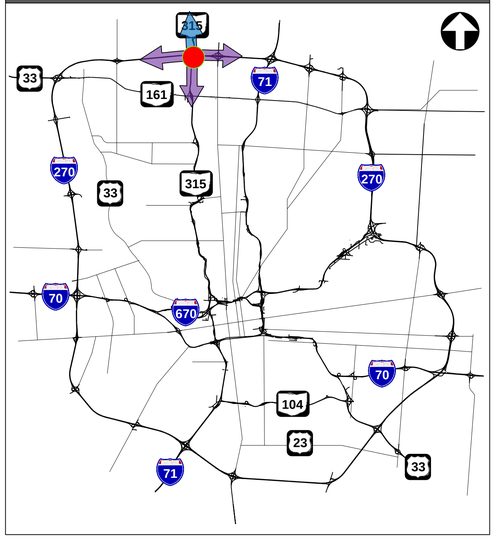
EQUIPMENT CABLE
- FIBER PATCH CABLES Tx/Tx
- FIBER PATCH CABLES Tx/Rx CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE

INTERCONNECT CABLE
- 288 STRAND SMF CABLE
- 144 STRAND SMF CABLE
- COLUMBUS FIBERNET SMF CABLE
- CITYNET SMF CABLE
- D.O.T. SMF CABLE

FIBER SPLICING (DARK/LIGHT – PROPOSED/EXISTING)
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- FUSION SPLICE – PARTIAL BUFFER TUBE
- FUSION SPLICE – SINGLE FIBER
- COILED FIBER OR BUFFER TUBE

EQUIPMENT AND TERMINATION CABINET
- LH/ZX LH/ZX — GBIC OPTICAL TRANSCEIVER; LH - SHORT HAUL; ZX – LONG HAUL
- 8P8C CONNECTOR
- EMPTY SFP MODULE BAY
- LC TERMINATION – SINGLE FIBER
- LC TERMINATION – 12 FIBER BUFFER TUBE
- WIRELESS ETHERNET RADIO

KEY PLAN



COMMUNICATION NODE 270022.7

REFER TO SHEET 592 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 615 FOR COMM OVERVIEW DETAILS

CIP: 540007 – 100012
PID NUMBER: 99733

EXISTING COMMUNICATION NODE# 270022.7: I-270 AT SR-315
FIBER OPTIC SPLICING DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

COMMUNICATION NODE EQUIPMENT CABINET (#2)

EXISTING LAYER 3 ETHERNET SWITCH

Ports: 1 2 3 4 LH 5 LH 6 LH 7 LH 8 9 10 11 12

TO: CONTROL EQUIPMENT MONITOR

4 5 6 7

24 STRAND LC PATCH PANEL

24SMF DROP CABLE[1]

24 STRAND LC PATCH PANEL

ETHERNET SWITCH PORT DESTINATION

PORT 4: EXISTING COMMUNICATION NODE# 270023.6: IR-270 AT US-23.

PORT 5: EXISTING COMMUNICATION NODE# 071116.2: IR-71 AT MORSE RD.

PORT 6: EXISTING COMMUNICATION NODE# 270027.7: IR-270 AT CLEVELAND AVE.

PORT 7: PROPOSED COMMUNICATION NODE# 071121.4: POLARIS PKWY AT I-71
SEE SHEET 870

LEGEND

EQUIPMENT CABLE

- FIBER PATCH CABLES Tx/Tx
- FIBER PATCH CABLES Tx/Rx CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE

INTERCONNECT CABLE

- 288 STRAND SMF CABLE
- 144 STRAND SMF CABLE
- COLUMBUS FIBERNET SMF CABLE
- CITYNET SMF CABLE
- D.O.T. SMF CABLE

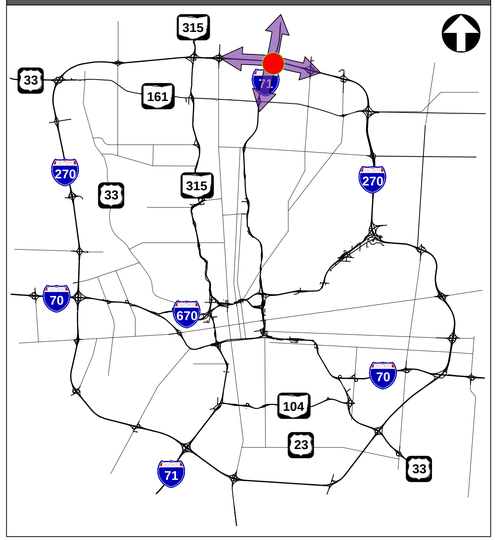
FIBER SPLICING (DARK/LIGHT – PROPOSED/EXISTING)

- FUSION SPLICE – 12 FIBER BUFFER TUBE
- FUSION SPLICE – PARTIAL BUFFER TUBE
- FUSION SPLICE – SINGLE FIBER
- COILED FIBER OR BUFFER TUBE

EQUIPMENT AND TERMINATION CABINET

- LH/ZX — GBIC OPTICAL TRANSCEIVER (LH - SHORT HAUL, ZX – LONG HAUL)
- 8P8C CONNECTOR
- EMPTY SFP MODULE BAY
- LC TERMINATION – SINGLE FIBER
- LC TERMINATION – 12 FIBER BUFFER TUBE
- WIRELESS ETHERNET RADIO

KEY PLAN



MATCHLINE A - SEE SHEET 895

COMMUNICATION NODE FIBER TERMINATION CABINET (#1)

144SMF DROP CABLE[2] WEST (CTSS BACKBONE)
144SMF DROP CABLE[2] NORTH (CTSS BACKBONE)
144SMF DROP CABLE[2] SOUTH (CTSS BACKBONE)
144SMF DROP CABLE[2] EAST (CTSS BACKBONE)

CTSS 4RU PATCH PANEL — A B C D E F

WEST
BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE
RED TUBE
BLACK TUBE
YELLOW TUBE
VIOLET TUBE
ROSE TUBE
AQUA TUBE

EAST
BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE
RED TUBE
BLACK TUBE
YELLOW TUBE
VIOLET TUBE
ROSE TUBE
AQUA TUBE

CTSS 4RU PATCH PANEL — N P Q R S T

NORTH
BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE
RED TUBE
BLACK TUBE
YELLOW TUBE
VIOLET TUBE
ROSE TUBE
AQUA TUBE

CTSS 4RU PATCH PANEL — G H J K L M

SOUTH
BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE
RED TUBE
BLACK TUBE
YELLOW TUBE
VIOLET TUBE
ROSE TUBE
AQUA TUBE

CTSS 4RU PATCH PANEL — U V W X Y Z

4 6 7 5

NOTES

DoT TERMINATION PANELS SHOWN ON SHEET **894**

[2] PATCH PANEL DROP CABLES SHALL BE FACTORY PRE-TERMINATED AND OF SUFFICIENT LENGTH TO REACH ADJACENT UNDERGROUND OR OVERHEAD ENCLOSURE SPLICE LOCATION.

COMMUNICATION NODE 270025.9

REFER TO SHEET 594 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 616 FOR COMM OVERVIEW DETAILS

CIP: 540007 – 100012
PID NUMBER: 99733

EXISTING COMMUNICATION NODE# 270025.9: I-270 AT I-71
COMMUNICATIONS DIAGRAM

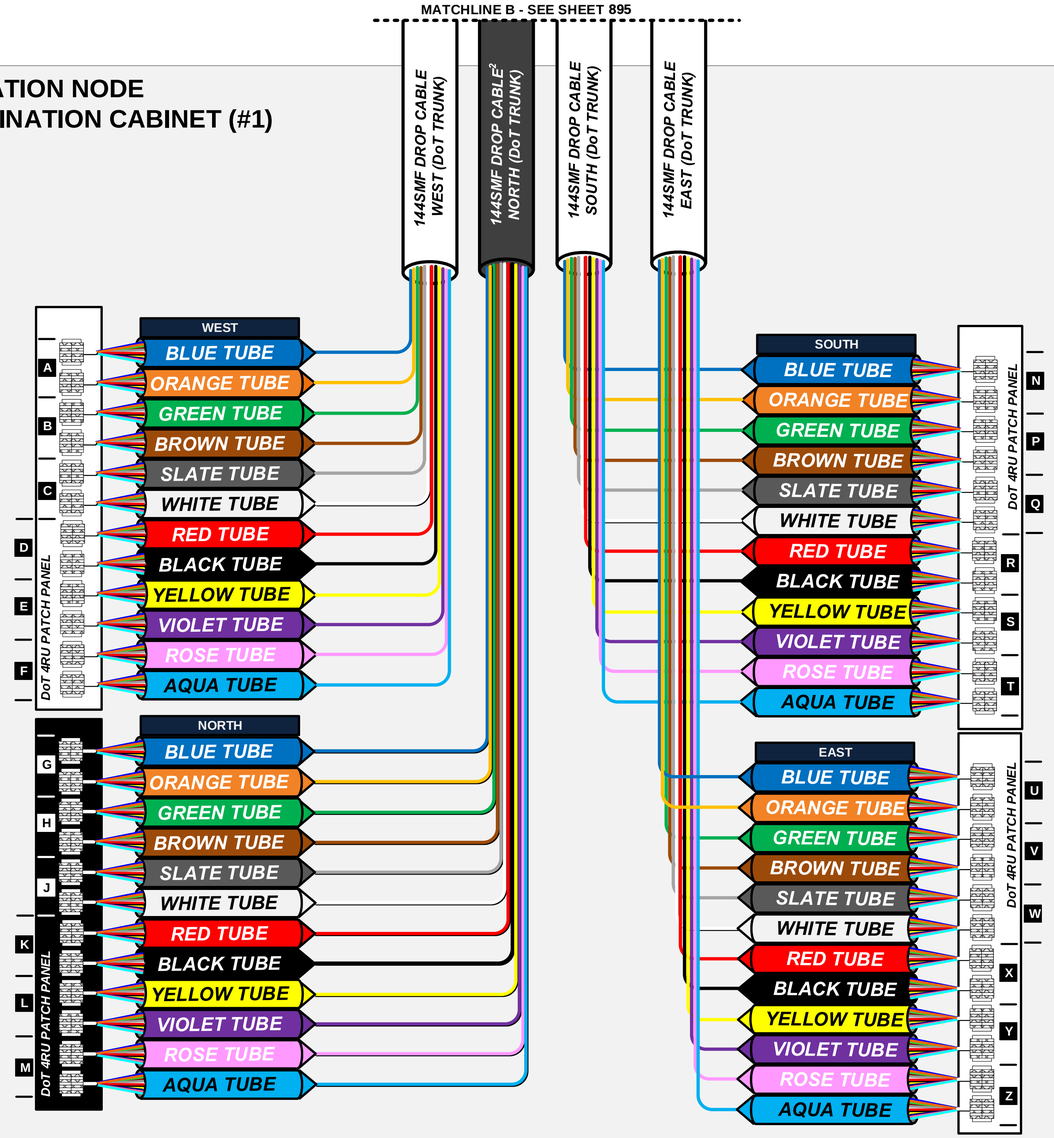
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

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MATCHLINE B - SEE SHEET 895

COMMUNICATION NODE
FIBER TERMINATION CABINET (#1)



LEGEND

EQUIPMENT CABLE

- FIBER PATCH CABLES Tx/Tx
- CAT 5E CABLE
- FIBER PATCH CABLES Tx/Rx CROSSOVER
- EXISTING FIBER PATCH CABLES

INTERCONNECT CABLE

- 288 STRAND SMF CABLE
- CITYNET SMF CABLE
- 144 STRAND SMF CABLE
- D.O.T. SMF CABLE
- COLUMBUS FIBERNET SMF CABLE

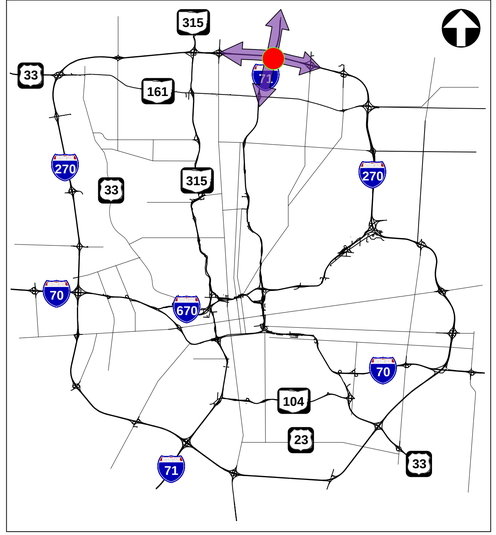
FIBER SPLICING (DARK/LIGHT – PROPOSED/EXISTING)

- FUSION SPLICE – 12 FIBER BUFFER TUBE
- FUSION SPLICE – PARTIAL BUFFER TUBE
- FUSION SPLICE – SINGLE FIBER
- COILED FIBER OR BUFFER TUBE

EQUIPMENT AND TERMINATION CABINET

- LH/ZX LH/ZX — GBIC OPTICAL TRANSCEIVER; LH - SHORT HAUL; ZX – LONG HAUL
- 8P8C CONNECTOR
- EMPTY SFP MODULE BAY
- LC TERMINATION – SINGLE FIBER
- LC TERMINATION – 12 FIBER BUFFER TUBE
- WIRELESS ETHERNET RADIO

KEY PLAN



NOTES

CTSS TERMINATION PANELS SHOWN ON SHEET **893**

[2] PATCH PANEL DROP CABLES SHALL BE FACTORY PRE-TERMINATED AND OF SUFFICIENT LENGTH TO REACH ADJACENT UNDERGROUND OR OVERHEAD ENCLOSURE SPLICE LOCATION.

COMMUNICATION NODE 270025.9

REFER TO SHEET 594 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 616 FOR COMM OVERVIEW DETAILS

CIP: 540007 – 100012
PID NUMBER: 99733

EXISTING COMMUNICATION NODE# 270025.9: I-270 AT I-71
FIBER OPTIC SPLICING DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

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MATCHLINE A - SEE SHEET 893

MATCHLINE B - SEE SHEET 894

144SMF DROP CABLE WEST (CTSS TRUNK)

144SMF DROP CABLE NORTH (CTSS TRUNK)

144SMF DROP CABLE SOUTH (CTSS TRUNK)

144SMF DROP CABLE EAST (CTSS TRUNK)

144SMF DROP CABLE WEST (DoT TRUNK)

CAP AND COIL 150' OF 24SMF FIBER OPTIC DROP CABLE FOR FUTURE ODOT CONNECTION

24SMF CABLE ODOT

288SMF CABLE NORTH I-71 BACKBONE

TO: PROPOSED COMMUNICATION NODE# 071121.4: POLARIS PKWY AT I-71
SEE SHEET 871

CLAMSHELL, 288 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE[1]

144SMF DROP CABLE NORTH (DoT TRUNK)

144SMF DROP CABLE SOUTH (DoT TRUNK)

144SMF DROP CABLE EAST (DoT TRUNK)

EXISTING 48" PULL BOX

TO: EXISTING COMMUICATION NODE# 270027.7: IR-270 AT CLEVELAND AVE.

288SMF CABLE EAST I-270 BACKBONE

TO: EXISTING COMMUNICATION NODE 270023.6: IR-270 AT US-23.

288SMF CABLE WEST I-270 BACKBONE

12SMF CABLE ODOT

EXISTING UNDERGROUND SPLICE ENCLOSURE

EXISTING UNDERGROUND SPLICE ENCLOSURE

EXISTING UNDERGROUND SPLICE ENCLOSURE

12SMF CABLE ODOT

288SMF CABLE SOUTH I-71 BACKBONE

TO: EXISTING COMMUNICATION NODE#: 071116.2: IR-71 AT MORSE RD.

12SMF CABLE ODOT

LEGEND

EQUIPMENT CABLE

- FIBER PATCH CABLES Tx/Tx
- CAT 5E CABLE
- FIBER PATCH CABLES Tx/Rx CROSSOVER
- EXISTING FIBER PATCH CABLES

INTERCONNECT CABLE

- 288 STRAND SMF CABLE
- CITYNET SMF CABLE
- 144 STRAND SMF CABLE
- D.O.T. SMF CABLE
- COLUMBUS FIBERNET SMF CABLE

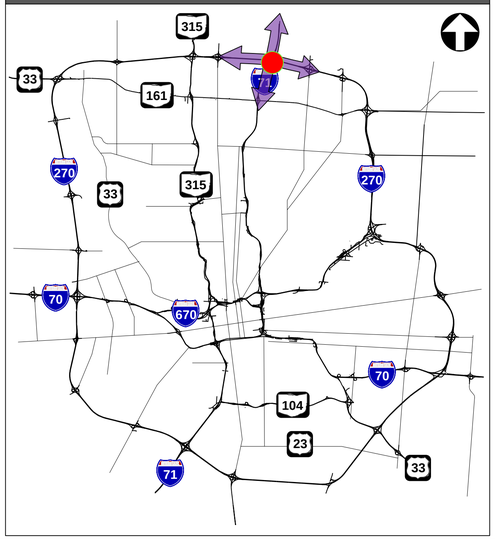
FIBER SPLICING (DARK/LIGHT – PROPOSED/EXISTING)

- FUSION SPLICE – 12 FIBER BUFFER TUBE
- FUSION SPLICE – PARTIAL BUFFER TUBE
- FUSION SPLICE – SINGLE FIBER
- COILED FIBER OR BUFFER TUBE

EQUIPMENT AND TERMINATION CABINET

- LH/ZX LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL ZX – LONG HAUL
- 8P8C CONNECTOR
- EMPTY SFP MODULE BAY
- LC TERMINATION – SINGLE FIBER
- LC TERMINATION – 12 FIBER BUFFER TUBE
- WIRELESS ETHERNET RADIO

KEY PLAN



[1]EACH CLAMSHELL, 288 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE MUST ACCOMMODATE 4 CABLE ENTRY PORTS, 288 FUSION SPLICES, AND 2 COILED BUFFER TUBES.

COMMUNICATION NODE 270025.9

REFER TO SHEET 594 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 616 FOR COMM OVERVIEW DETAILS

CIP: 540007 – 100012
PID NUMBER: 99733

EXISTING COMMUNICATION NODE# 270025.9: I-270 AT I-71
FIBER OPTIC SPLICING DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

COMMUNICATION NODE EQUIPMENT CABINET (#2)

LAYER 3 ETHERNET SWITCH

Ports 1 2 LH 3 LH 4 LH 5 LH 6 LH 7 LH 8 9 10 11 12

TO: CONTROL EQUIPMENT MONITOR

24 STRAND LC PATCH PANEL

24SMF DROP CABLE

24 STRAND LC PATCH PANEL

MATCHLINE B - SEE SHEET 898

144SMF DROP CABLE (CTSS TRUNK)

24SMF DROP CABLE (I-270 BACKBONE)

24SMF DROP CABLE SOUTH (I-270 BACKBONE)

COMMUNICATION NODE FIBER TERMINATION CABINET (#1)

CTSS 4RU PATCH PANEL

SOUTH-EAST
BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE

SOUTH
RED TUBE
BLACK TUBE
YELLOW TUBE
VIOLET TUBE
ROSE TUBE
AQUA TUBE

EAST
BLUE TUBE

WEST
ORANGE TUBE

CTSS 1RU PATCH PANEL

SOUTH
BLUE TUBE

SPARE
ORANGE TUBE

REVISED ETHERNET SWITCH PORT DESTINATION

PORT 2: PROPOSED COMMUNICATION NODE# 270030.5: I-270 AT SR-161
SEE SHEET 899
PORT 3: EXISTING COMMUNICATION NODE# 270027.7: IR-270 AT CLEVELAND AVE.

PORT 4: INT# 3242: COOPER RD. AT WESTERVILLE RD.
(Revised) SEE SHEET 811
PORT 5: INT# 3242: COOPER RD. AT WESTERVILLE RD.
(Revised) SEE SHEET 811
PORT 6: INT# SIG4670: DEMPSEY RD. AT HEMPSTEAD RD.

PORT 7: INT# SIG4095: CAIRO RD. AT DEMPSEY RD.

1. REMOVE EXISTING 24 STRAND DROP CABLE AND DISCONNECT EXISTING LC FIBER PATCH CABLES BETWEEN EXISTING PATCH PANEL AND DROP CABLE. REPLACE CONNECTION WITH PATCH CABLES AS SHOWN ON PLAN ABOVE.

NOTES
DoT TERMINATION PANELS SHOWN ON SHEET **897**

3. DISCONNECT EXISTING LC FIBER PATCH CABLES BETWEEN EXISTING PATCH PANEL AND NETWORK SWITCH. REPLACE CONNECTION WITH PATCH CABLES AS SHOWN ON PLAN ABOVE.

LEGEND

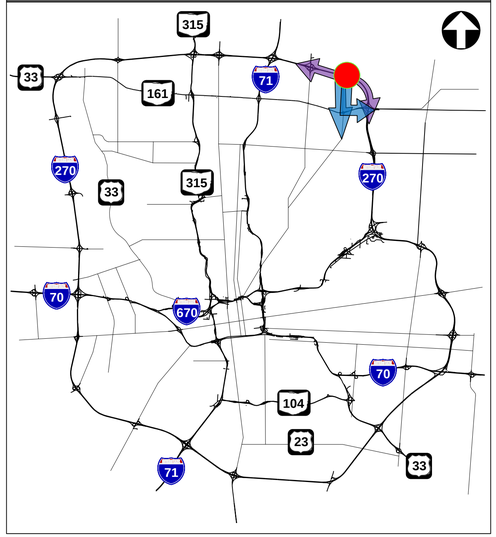
EQUIPMENT CABLE
- FIBER PATCH CABLES Tx/Tx
- FIBER PATCH CABLES Tx/Rx CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE

INTERCONNECT CABLE
- 288 STRAND SMF CABLE
- 144 STRAND SMF CABLE
- COLUMBUS FIBERNET SMF CABLE
- CITYNET SMF CABLE
- D.O.T. SMF CABLE

FIBER SPLICING (DARK/LIGHT – PROPOSED/EXISTING)
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- FUSION SPLICE – PARTIAL BUFFER TUBE
- FUSION SPLICE – SINGLE FIBER
- COILED FIBER OR BUFFER TUBE

EQUIPMENT AND TERMINATION CABINET
- LH/ZX — GBIC OPTICAL TRANSCEIVER; LH - SHORT HAUL; ZX – LONG HAUL
- 8P8C CONNECTOR
- EMPTY SFP MODULE BAY
- LC TERMINATION – SINGLE FIBER
- LC TERMINATION – 12 FIBER BUFFER TUBE
- WIRELESS ETHERNET RADIO

KEY PLAN



COMMUNICATION NODE 270028.3
REFER TO SHEET 600 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 626 FOR COMM OVERVIEW DETAILS

CIP: 540007 – 100012
PID NUMBER: 99733

EXISTING COMMUNICATION NODE# 270028.3: I-270 AT WESTERVILLE RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

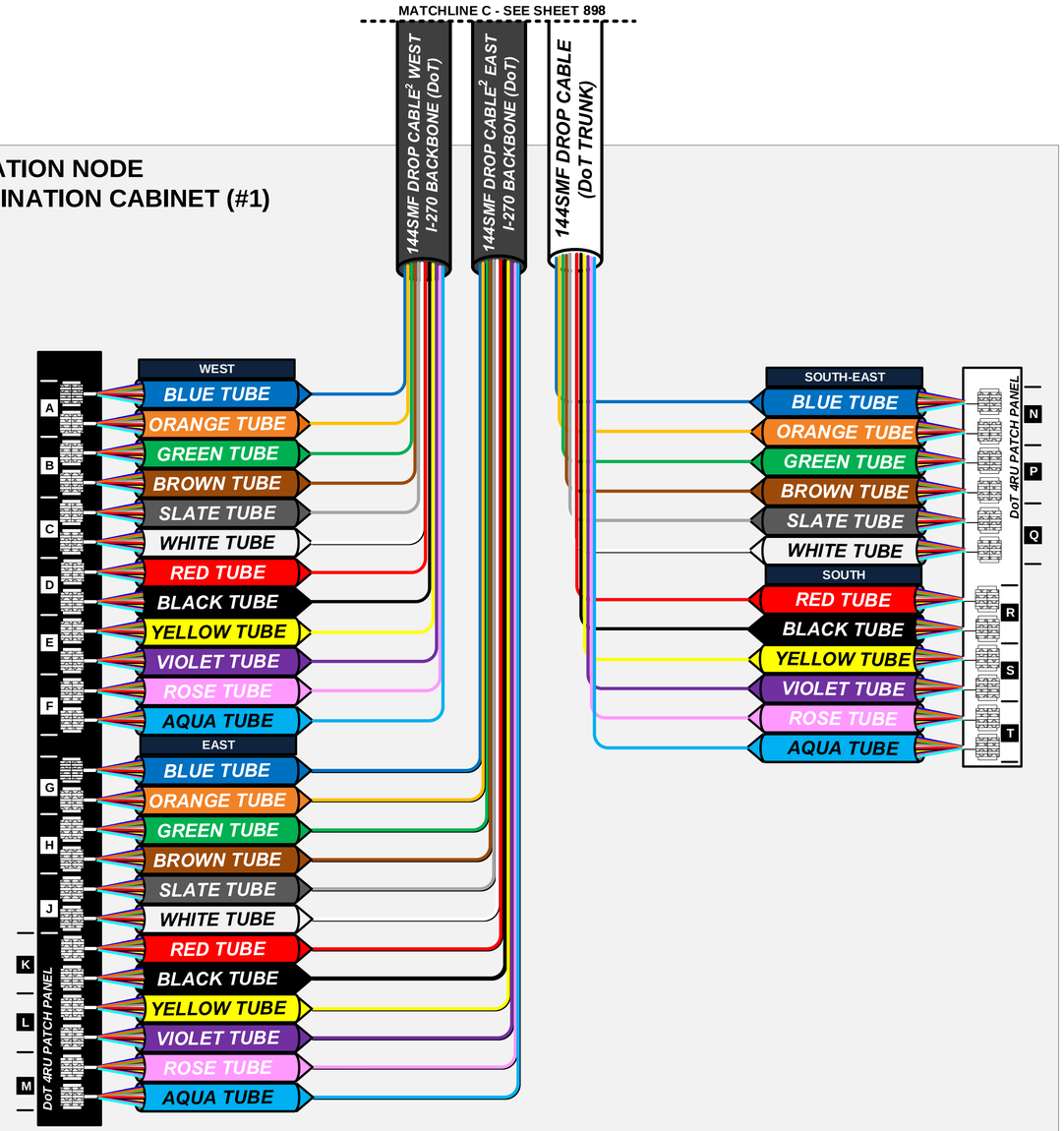
896
915

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MATCHLINE C - SEE SHEET 898

COMMUNICATION NODE
FIBER TERMINATION CABINET (#1)



LEGEND

EQUIPMENT CABLE

- FIBER PATCH CABLES Tx/Tx
- CAT 5E CABLE
- FIBER PATCH CABLES Tx/Rx CROSSOVER
- EXISTING FIBER PATCH CABLES

INTERCONNECT CABLE

- 288 STRAND SMF CABLE
- CITYNET SMF CABLE
- 144 STRAND SMF CABLE
- D.O.T. SMF CABLE
- COLUMBUS FIBERNET SMF CABLE

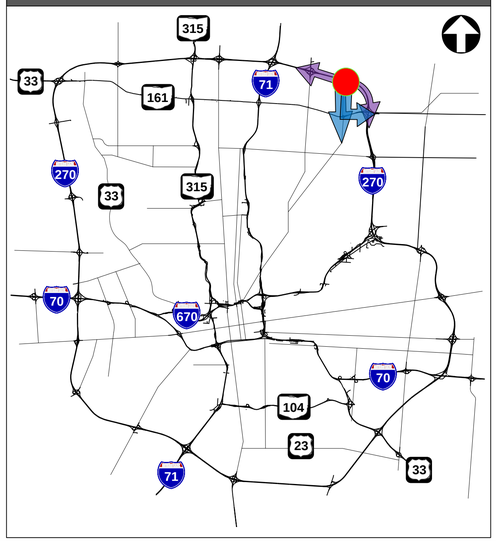
FIBER SPLICING (DARK/LIGHT – PROPOSED/EXISTING)

- FUSION SPLICE – 12 FIBER BUFFER TUBE
- FUSION SPLICE – PARTIAL BUFFER TUBE
- FUSION SPLICE – SINGLE FIBER
- COILED FIBER OR BUFFER TUBE

EQUIPMENT AND TERMINATION CABINET

- LH/ZX LH/ZX — GBIC OPTICAL TRANSCEIVER; LH - SHORT HAUL; ZX – LONG HAUL
- 8P8C CONNECTOR
- EMPTY SFP MODULE BAY
- LC TERMINATION – SINGLE FIBER
- LC TERMINATION – 12 FIBER BUFFER TUBE
- WIRELESS ETHERNET RADIO

KEY PLAN



NOTES

CTSS TERMINATION PANELS SHOWN ON SHEET **896**

[2] PATCH PANEL DROP CABLES SHALL BE FACTORY PRE-TERMINATED AND OF SUFFICIENT LENGTH TO REACH ADJACENT UNDERGROUND OR OVERHEAD ENCLOSURE SPLICE LOCATION.

COMMUNICATION NODE 270028.3

REFER TO SHEET 600 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 626 FOR COMM OVERVIEW DETAILS

CIP: 540007 – 100012
PID NUMBER: 99733

EXISTING COMMUNICATION NODE# 270028.3: I-270 AT WESTERVILLE RD.
FIBER OPTIC SPLICING DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

EXISTING 32" PULL BOX

6 Cable Entries
300 Proposed Fusion Splices
348 Total Fusion Splices
8 Buffer Tubes Passed Through Unspliced

TO:
EXISTING COMMUNICATION NODE# 270027.7: IR-270 AT CLEVELAND AVE.

288SMF CABLE WEST I-270 BACKBONE

288SMF CABLE EAST I-270 BACKBONE

TO:
PROPOSED COMMUNICATION NODE# 270030.5: I-270 AT SR-161
SEE SHEET 901

24SMF CABLE ODOT

REMOVE EXISTING 24 STRAND DROP CABLE AND RESPLICE BROWN TUBE AS SHOWN ABOVE

24SMF DROP CABLE (I-270 BACKBONE)

24SMF DROP CABLE SOUTH (I-270 BACKBONE)

144SMF DROP CABLE WEST I-270 BACKBONE (DoT)

144SMF DROP CABLE EAST I-270 BACKBONE (DoT)

DOME, 800 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE

MATCHLINE A - SEE THIS SHEET

EXISTING 48" PULL BOX

5 Cable Entries
144 Existing Fusion Splices
144 Proposed Fusion splices
3 Coiled Buffer Tubes

24SMF CABLE ODOT

MATCHLINE A - SEE THIS SHEET

1-6
7-12
1-6
7-12
1-6
7-12
1-6
7-12

REMOVE EXISTING 24 STRAND DROP CABLE

24SMF DROP CABLE (I-270 BACKBONE)

24SMF DROP CABLE SOUTH (I-270 BACKBONE)

144SMF CABLE WEST I-270 BACKBONE (DoT)

144SMF CABLE EAST I-270 BACKBONE (DoT)

144SMF CABLE SOUTH DEMPSEY RD TRUNK

144SMF CABLE SOUTH DEMPSEY RD TRUNK

EXISTING UNDERGROUD SPLICE ENCLOSURE

144SMF DROP CABLE (CTSS TRUNK)

144SMF DROP CABLE (DoT TRUNK)

TO:
SPLICE-10: DEMPSEY RD. AT WESTERVILLE RD.

TO:
INT# 3242: COOPER RD. AT WESTERVILLE RD.
SEE SHEET 811

MATCHLINE B - SEE SHEET 896

MATCHLINE C - SEE SHEET 897

LEGEND

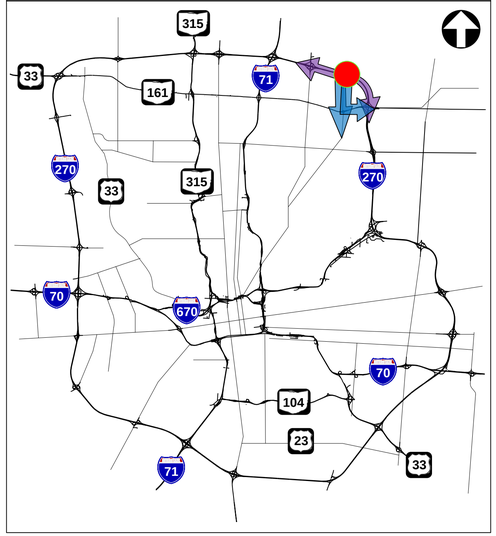
EQUIPMENT CABLE
- FIBER PATCH CABLES Tx/Tx
- CAT 5E CABLE
- FIBER PATCH CABLES Tx/Rx CROSSOVER
- EXISTING FIBER PATCH CABLES

INTERCONNECT CABLE
- 288 STRAND SMF CABLE
- CITYNET SMF CABLE
- 144 STRAND SMF CABLE
- D.O.T. SMF CABLE
- COLUMBUS FIBERNET SMF CABLE

FIBER SPLICING (DARK/LIGHT – PROPOSED/EXISTING)
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- FUSION SPLICE – PARTIAL BUFFER TUBE
- FUSION SPLICE – SINGLE FIBER
- COILED FIBER OR BUFFER TUBE

EQUIPMENT AND TERMINATION CABINET
- *LH/ZX* GBIC OPTICAL TRANSCEIVER
  LH - SHORT HAUL
  ZX – LONG HAUL
- 8P8C CONNECTOR
- EMPTY SFP MODULE BAY
- LC TERMINATION – SINGLE FIBER
- LC TERMINATION – 12 FIBER BUFFER TUBE
- WIRELESS ETHERNET RADIO

KEY PLAN



COMMUNICATION NODE 270028.3

REFER TO SHEET 600 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 626 FOR COMM OVERVIEW DETAILS

CIP: 540007 – 100012
PID NUMBER: 99733

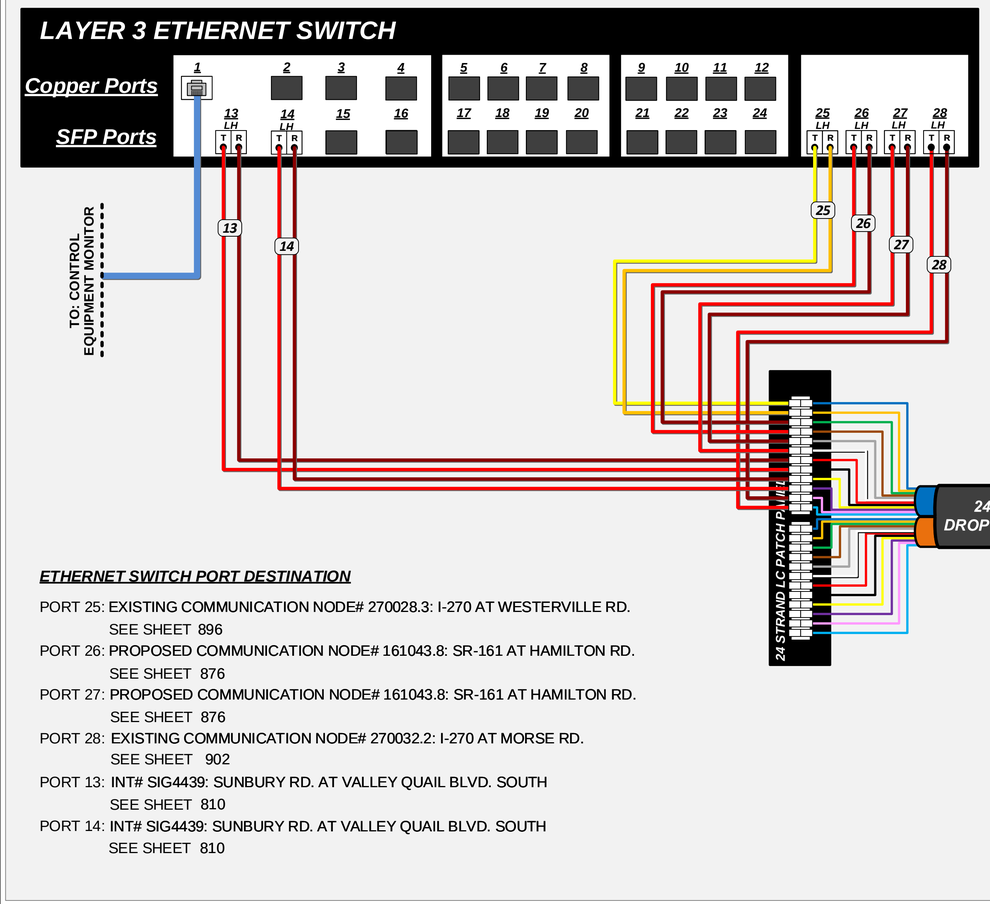
EXISTING COMMUNICATION NODE# 270028.3: I-270 AT WESTERVILLE RD.
FIBER OPTIC SPLICING DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

898
915

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COMMUNICATION NODE EQUIPMENT CABINET (#2)



ETHERNET SWITCH PORT DESTINATION

PORT 25: EXISTING COMMUNICATION NODE# 270028.3: I-270 AT WESTERVILLE RD.
SEE SHEET 896

PORT 26: PROPOSED COMMUNICATION NODE# 161043.8: SR-161 AT HAMILTON RD.
SEE SHEET 876

PORT 27: PROPOSED COMMUNICATION NODE# 161043.8: SR-161 AT HAMILTON RD.
SEE SHEET 876

PORT 28: EXISTING COMMUNICATION NODE# 270032.2: I-270 AT MORSE RD.
SEE SHEET 902

PORT 13: INT# SIG4439: SUNBURY RD. AT VALLEY QUAIL BLVD. SOUTH
SEE SHEET 810

PORT 14: INT# SIG4439: SUNBURY RD. AT VALLEY QUAIL BLVD. SOUTH
SEE SHEET 810

LEGEND

EQUIPMENT CABLE

- FIBER PATCH CABLES Tx/Tx
- FIBER PATCH CABLES Tx/Rx CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE

INTERCONNECT CABLE

- 288 STRAND SMF CABLE
- 144 STRAND SMF CABLE
- COLUMBUS FIBERNET SMF CABLE
- CITYNET SMF CABLE
- D.O.T. SMF CABLE

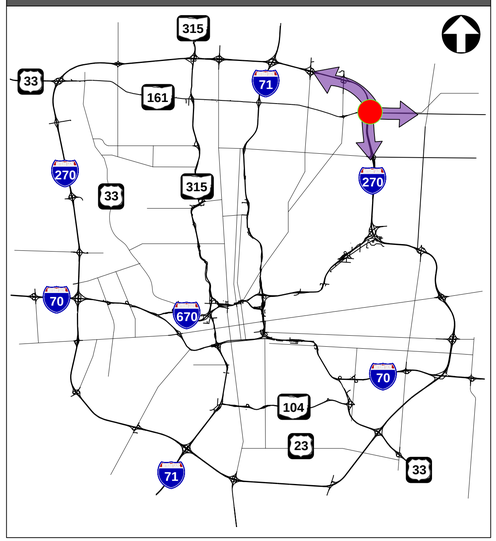
FIBER SPLICING (DARK/LIGHT – PROPOSED/EXISTING)

- FUSION SPLICE – 12 FIBER BUFFER TUBE
- FUSION SPLICE – PARTIAL BUFFER TUBE
- FUSION SPLICE – SINGLE FIBER
- COILED FIBER OR BUFFER TUBE

EQUIPMENT AND TERMINATION CABINET

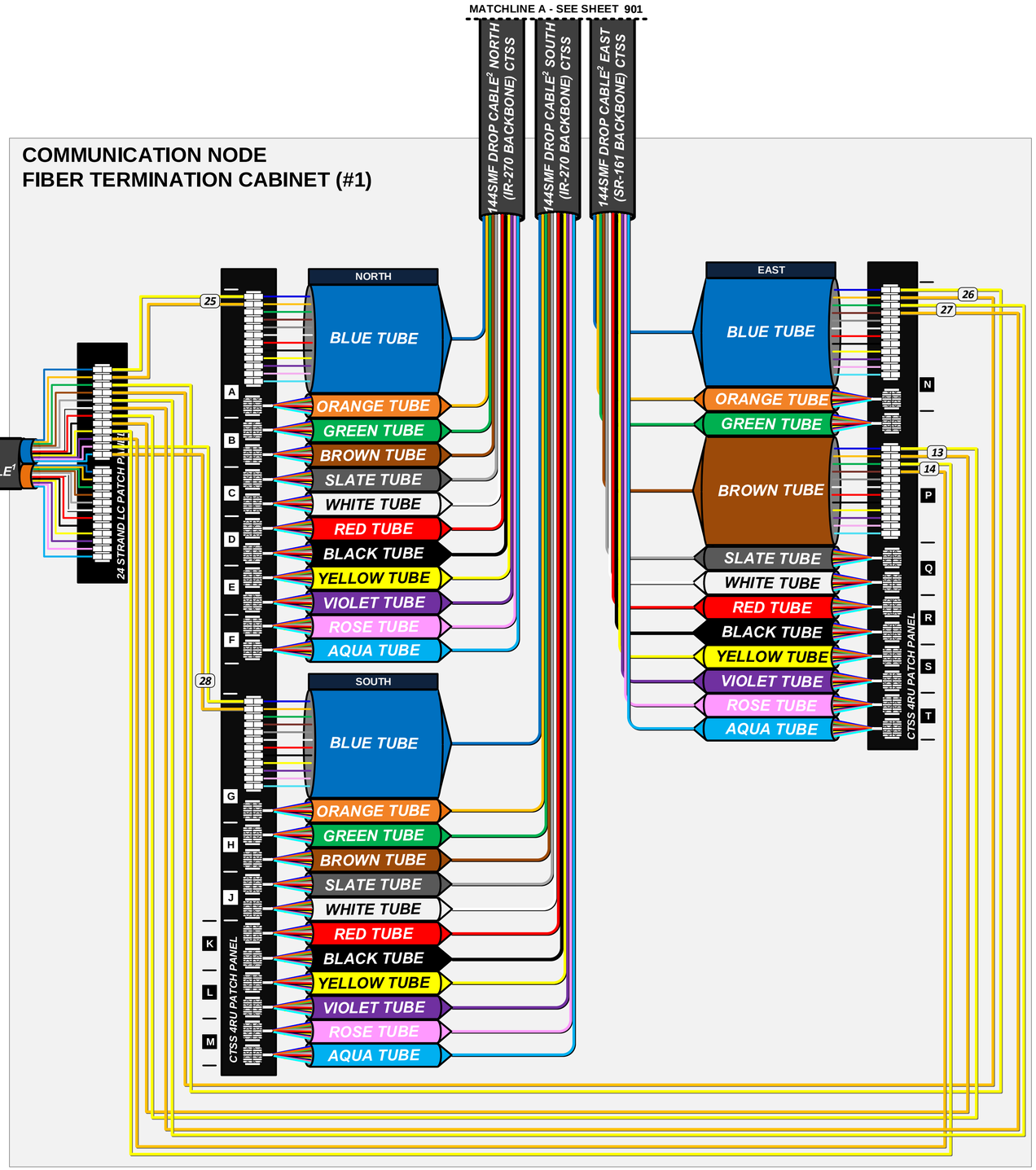
- LH/ZX LH/ZX — GBIC OPTICAL TRANSCEIVER; LH - SHORT HAUL; ZX – LONG HAUL
- 8P8C CONNECTOR
- EMPTY SFP MODULE BAY
- LC TERMINATION – SINGLE FIBER
- LC TERMINATION – 12 FIBER BUFFER TUBE
- WIRELESS ETHERNET RADIO

KEY PLAN



MATCHLINE A - SEE SHEET 901

COMMUNICATION NODE FIBER TERMINATION CABINET (#1)



NOTES

[1] PRE-TERMINATED 24SMF CABLE INSTALLED IN 4" CONDUIT CONNECTING CABINETS.

[2] PATCH PANEL DROP CABLES SHALL BE FACTORY PRE-TERMINATED AND OF SUFFICIENT LENGTH TO REACH ADJACENT UNDERGROUND OR OVERHEAD ENCLOSURE SPLICE LOCATION.

DoT TERMINATION PANELS SHOWN ON SHEET **900**

COMMUNICATION NODE 270030.5

REFER TO SHEET 585 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 626 FOR COMM OVERVIEW DETAILS

CIP: 540007 – 100012
PID NUMBER: 99733

PROPOSED COMMUNICATION NODE# 270030.5: I-270 AT SR-161
COMMUNICATIONS DIAGRAM

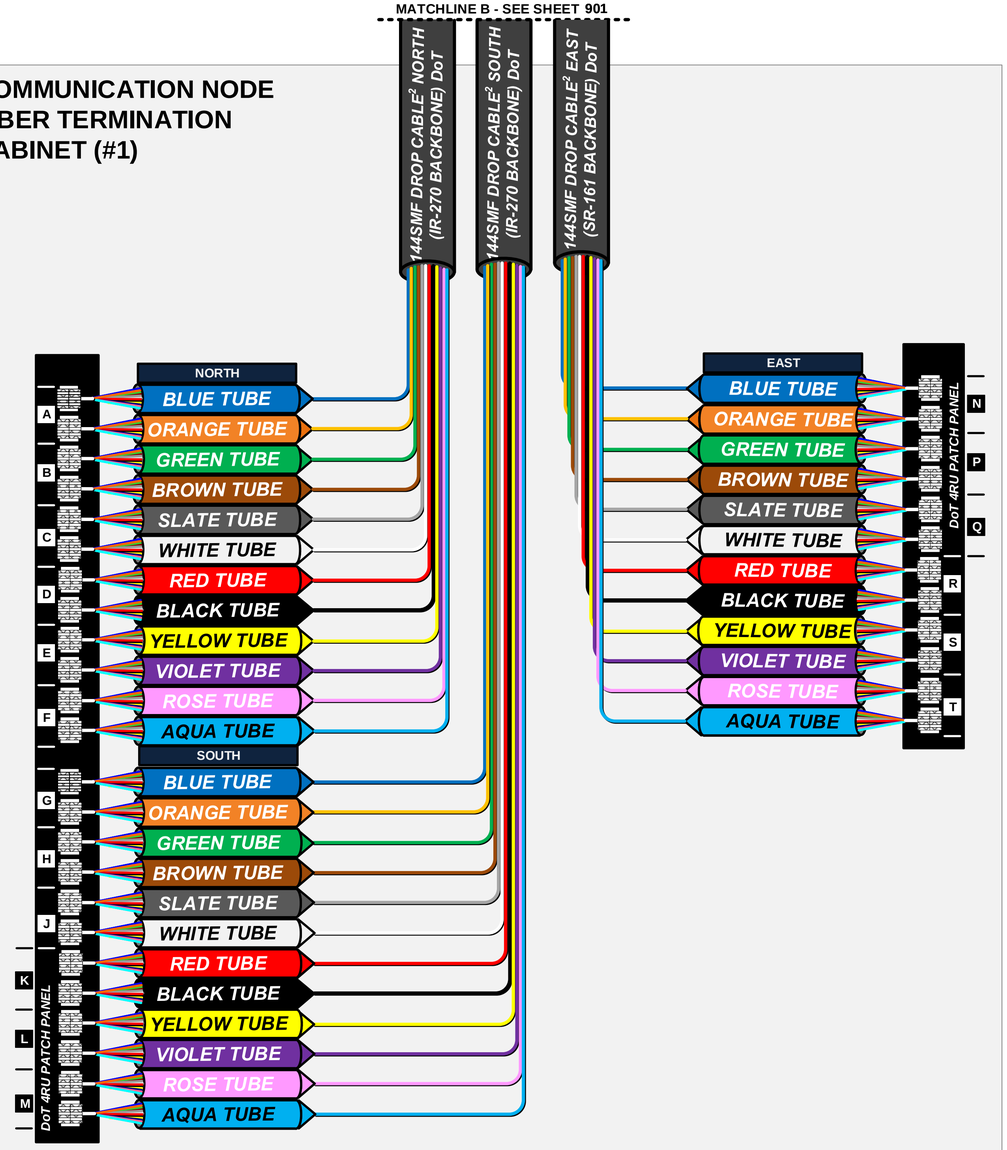
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

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MATCHLINE B - SEE SHEET 901

COMMUNICATION NODE FIBER TERMINATION CABINET (#1)



LEGEND

EQUIPMENT CABLE

- FIBER PATCH CABLES Tx/Tx
- CAT 5E CABLE
- FIBER PATCH CABLES Tx/Rx CROSSOVER
- EXISTING FIBER PATCH CABLES

INTERCONNECT CABLE

- 288 STRAND SMF CABLE
- CITYNET SMF CABLE
- 144 STRAND SMF CABLE
- D.O.T. SMF CABLE
- COLUMBUS FIBERNET SMF CABLE

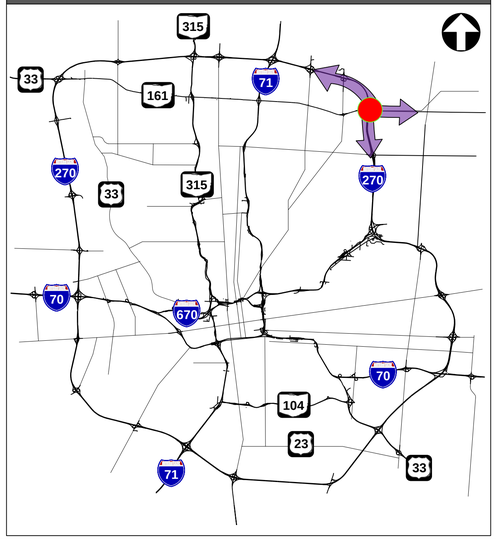
FIBER SPLICING (DARK/LIGHT – PROPOSED/EXISTING)

- FUSION SPLICE – 12 FIBER BUFFER TUBE
- FUSION SPLICE – PARTIAL BUFFER TUBE
- FUSION SPLICE – SINGLE FIBER
- COILED FIBER OR BUFFER TUBE

EQUIPMENT AND TERMINATION CABINET

- LH/ZX LH/ZX — GBIC OPTICAL TRANSCEIVER; LH - SHORT HAUL; ZX – LONG HAUL
- 8P8C CONNECTOR
- EMPTY SFP MODULE BAY
- LC TERMINATION – SINGLE FIBER
- LC TERMINATION – 12 FIBER BUFFER TUBE
- WIRELESS ETHERNET RADIO

KEY PLAN



NOTES

CTSS TERMINATION PANELS SHOWN ON SHEET **899**

[2] PATCH PANEL DROP CABLES SHALL BE FACTORY PRE-TERMINATED AND OF SUFFICIENT LENGTH TO REACH ADJACENT UNDERGROUND OR OVERHEAD ENCLOSURE SPLICE LOCATION.

COMMUNICATION NODE 270030.5

REFER TO SHEET 585 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 626 FOR COMM OVERVIEW DETAILS

CIP: 540007 – 100012
PID NUMBER: 99733

PROPOSED COMMUNICATION NODE# 270030.5: I-270 AT SR-161
FIBER OPTIC SPLICING DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

MATCHLINE A - SEE SHEET 899

MATCHLINE B - SEE SHEET 900

CAP AND COIL 150' OF 24SMF FIBER OPTIC CABLE FOR FUTURE ODOT CONNECTION

TO:
EXISTING COMMUNICATION NODE# 270028.3: I-270 AT WESTERVILLE RD.
SEE SHEET 898

144SMF DROP CABLE NORTH (IR-270 BACKBONE) CTSS

144SMF DROP CABLE SOUTH (IR-270 BACKBONE) CTSS

144SMF DROP CABLE EAST (SR-161 BACKBONE) CTSS

24SMF CABLE ODOT

288SMF CABLE NORTH I-270 BACKBONE

CLAMSHELL, 288 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE[1]

144SMF DROP CABLE NORTH (IR-270 BACKBONE) DoT

144SMF DROP CABLE SOUTH (IR-270 BACKBONE) DoT

144SMF DROP CABLE EAST (SR-161 BACKBONE) DoT

PROPOSED 48" PULL BOX

288SMF CABLE EAST SR-161 BACKBONE

TO:
SE_161_Sunbury: SR-161 AT SUNBURY RD.
SEE SHEET 809

4 Cable Entries
276 Proposed Fusion Splices
288 Total Fusion Splices
2 Coiled Buffer Tubes

CLAMSHELL, 288 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE

24SMF CABLE ODOT

CLAMSHELL, 288 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE[1]

288SMF CABLE SOUTH I-270 BACKBONE

24SMF CABLE ODOT

TO:
EXISTING COMMUNICATION NODE#: 270032.3: IR-270 AT MORSE RD.

CAP AND COIL 150' OF 24SMF FIBER OPTIC CABLE FOR FUTURE ODOT CONNECTION

LEGEND

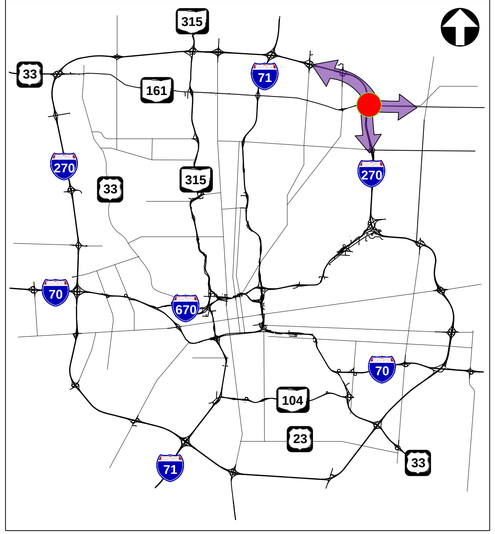
EQUIPMENT CABLE
- FIBER PATCH CABLES Tx/Tx
- CAT 5E CABLE
- FIBER PATCH CABLES Tx/Rx CROSSOVER
- EXISTING FIBER PATCH CABLES

INTERCONNECT CABLE
- 288 STRAND SMF CABLE
- CITYNET SMF CABLE
- 144 STRAND SMF CABLE
- D.O.T. SMF CABLE
- COLUMBUS FIBERNET SMF CABLE

FIBER SPLICING (DARK/LIGHT – PROPOSED/EXISTING)
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- FUSION SPLICE – PARTIAL BUFFER TUBE
- FUSION SPLICE – SINGLE FIBER
- COILED FIBER OR BUFFER TUBE

EQUIPMENT AND TERMINATION CABINET
- LH/ZX LH/ZX GBIC OPTICAL TRANSCEIVER
  LH - SHORT HAUL
  ZX – LONG HAUL
- 8P8C CONNECTOR
- EMPTY SFP MODULE BAY
- LC TERMINATION – SINGLE FIBER
- LC TERMINATION – 12 FIBER BUFFER TUBE
- WIRELESS ETHERNET RADIO

KEY PLAN



NOTES

REMOVE EXISTING 24 STRAND DROP CABLES AND FUSION SPLICE. RESPLICE 288 STRAND FIBERS AS SHOWN IN THE PLAN ABOVE.

[1]EACH CLAMSHELL, 288 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE MUST ACCOMMODATE 4 CABLE ENTRY PORTS, 288 FUSION SPLICES, AND 2 COILED BUFFER TUBES.

COMMUNICATION NODE 270030.5

REFER TO SHEET 585 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 626 FOR COMM OVERVIEW DETAILS

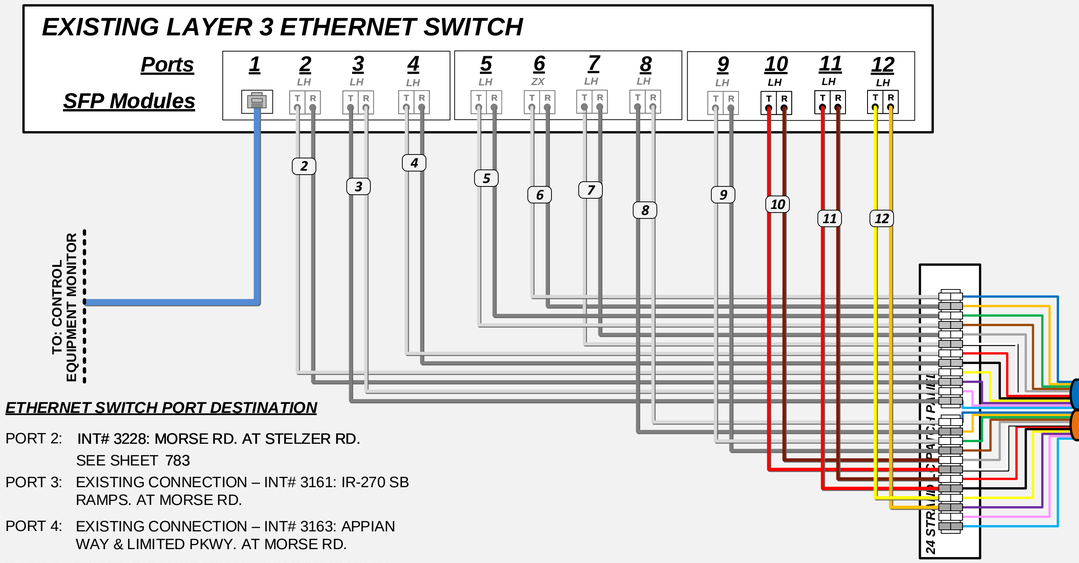
CIP: 540007 – 100012
PID NUMBER: 99733

PROPOSED COMMUNICATION NODE# 270030.5: I-270 AT SR-161
FIBER OPTIC SPLICING DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

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COMMUNICATION NODE EQUIPMENT CABINET (#2)



ETHERNET SWITCH PORT DESTINATION

PORT 2: INT# 3228: MORSE RD. AT STELZER RD.
SEE SHEET 783

PORT 3: EXISTING CONNECTION – INT# 3161: IR-270 SB RAMPS. AT MORSE RD.

PORT 4: EXISTING CONNECTION – INT# 3163: APPIAN WAY & LIMITED PKWY. AT MORSE RD.

PORT 5: EXISTING CONNECTION – COMMUNICATION NODE 270035.4: I-270 AT I-670

PORT 6: PROPOSED COMMUNICATION NODE# 270030.5: I-270 AT SR-161
SEE SHEET 899

PORT 7: EXISTING CONNECTION – INT# 3162: IR-270 NB RAMPS. AT MORSE RD.

PORT 8: EXISTING CONNECTION – INT# N051: CLEVALAND AVE. AT CORPORATE EXCHANGE DR.

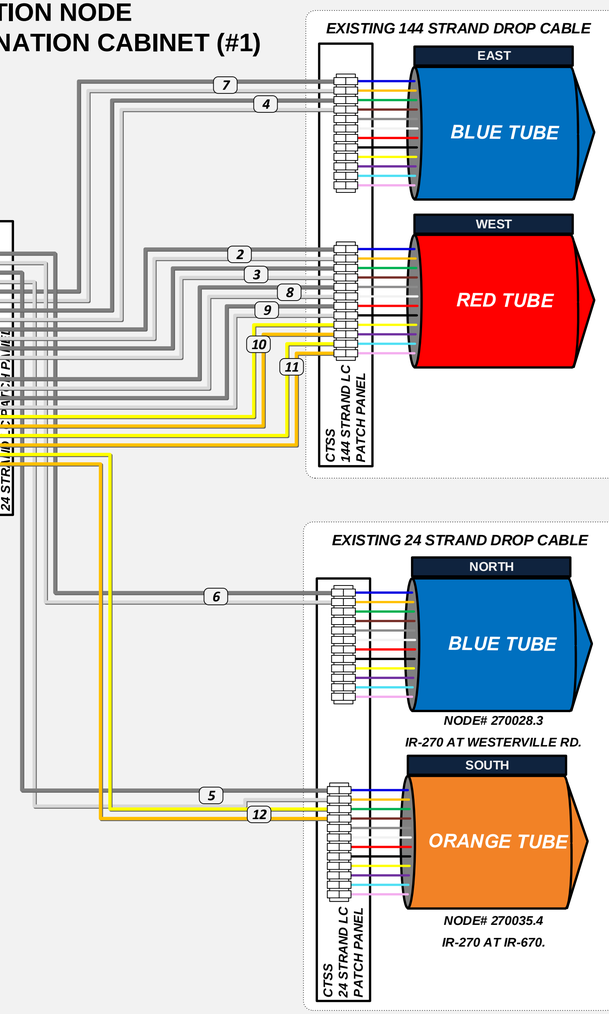
PORT 9: EXISTING CONNECTION – INT# N041: CLEVELAND AVE. AT NORTHWOLD RD. & TAYMOUTH RD.

PORT 10: INT# 3280: ALSTON ST. AT STELZER RD.
SEE SHEET 781

PORT 11: INT# 3268: EASTON LOOP E. AT GRAMERCY ST.
SEE SHEET 786

PORT 12: EXISTING COMMUNICATION NODE# 670009.0: I-670 AT STELZER RD.
SEE SHEET 914

COMMUNICATION NODE FIBER TERMINATION CABINET (#1)



LEGEND

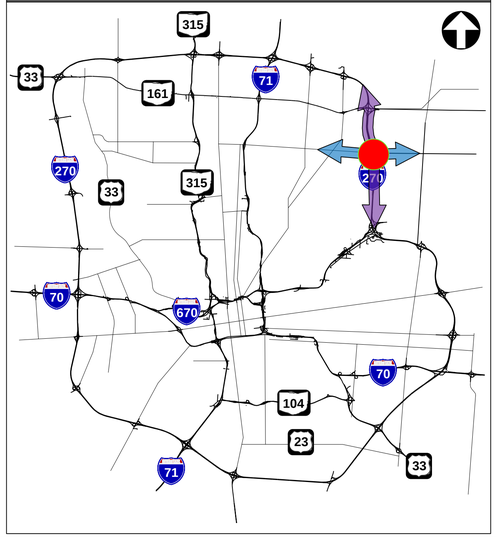
EQUIPMENT CABLE
- FIBER PATCH CABLES Tx/Tx
- CAT 5E CABLE
- FIBER PATCH CABLES Tx/Rx CROSSOVER
- EXISTING FIBER PATCH CABLES

INTERCONNECT CABLE
- 288 STRAND SMF CABLE
- CITYNET SMF CABLE
- 144 STRAND SMF CABLE
- D.O.T. SMF CABLE
- COLUMBUS FIBERNET SMF CABLE

FIBER SPLICING (DARK/LIGHT – PROPOSED/EXISTING)
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- FUSION SPLICE – PARTIAL BUFFER TUBE
- FUSION SPLICE – SINGLE FIBER
- COILED FIBER OR BUFFER TUBE

EQUIPMENT AND TERMINATION CABINET
- *LH/ZX* GBIC OPTICAL TRANSCEIVER (LH - SHORT HAUL, ZX – LONG HAUL)
- 8P8C CONNECTOR
- EMPTY SFP MODULE BAY
- LC TERMINATION – SINGLE FIBER
- LC TERMINATION – 12 FIBER BUFFER TUBE
- WIRELESS ETHERNET RADIO

KEY PLAN



COMMUNICATION NODE 270032.2
REFER TO SHEET 562 FOR QUANTITY DETAILS
REFER TO SHEET 624 FOR COMM OVERVIEW DETAILS

CIP: 540007 – 100012
PID NUMBER: 99733

EXISTING COMMUNICATION NODE# 270032.2: I-270 AT MORSE RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

902
915

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COMMUNICATION NODE EQUIPMENT CABINET (#2)

EXISTING LAYER 3 ETHERNET SWITCH

Ports: 1 2 3 4 5 6 7 8 9 10 11 12

SFP Modules: 4 (LH T R), 5 (LH T R), 6 (LH T R)

TO: CONTROL EQUIPMENT MONITOR

24 STRAND LC PATCH PANEL

24SMF DROP CABLE

24 STRAND LC PATCH PANEL

ETHERNET SWITCH PORT DESTINATION

PORT 4: EXISTING COMMUNICATION NODE# 270032.2: I-270 AT MORSE RD.
SEE SHEET 902

PORT 5: EXISTING COMMUNICATION NODE# 670009.0: I-670 AT STELZER RD.
SEE SHEET 914

PORT 6: PROPOSED COMMUNICATION NODE# 270030.5: I-270 AT SR-161

COMMUNICATION NODE FIBER TERMINATION CABINET (#1)

6

5

4

CTSS 288 STRAND LC PATCH PANEL

CTSS 144 STRAND LC PATCH PANEL

EXISTING 144 STRAND DROP CABLE

SOUTH

BLUE TUBE

NODE# 270037.4
I-270 AT HAMILTON RD.

EXISTING 144 STRAND DROP CABLE

WEST

BLUE TUBE

NODE# 670009.0
I-670 AT STELZER RD.

EXISTING 144 STRAND DROP CABLE

NORTH

BLUE TUBE

NODE# 270032.2
IR-270 AT MORSE RD.

LEGEND

EQUIPMENT CABLE

- FIBER PATCH CABLES Tx/Tx
- CAT 5E CABLE
- FIBER PATCH CABLES Tx/Rx CROSSOVER
- EXISTING FIBER PATCH CABLES

INTERCONNECT CABLE

- 288 STRAND SMF CABLE
- CITYNET SMF CABLE
- 144 STRAND SMF CABLE
- D.O.T. SMF CABLE
- COLUMBUS FIBERNET SMF CABLE

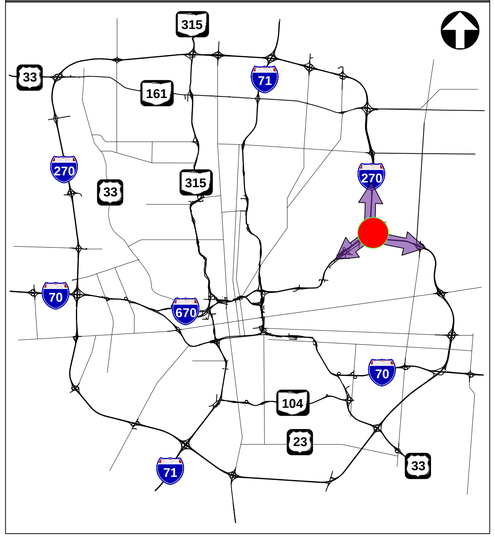
FIBER SPLICING (DARK/LIGHT – PROPOSED/EXISTING)

- FUSION SPLICE – 12 FIBER BUFFER TUBE
- FUSION SPLICE – PARTIAL BUFFER TUBE
- FUSION SPLICE – SINGLE FIBER
- COILED FIBER OR BUFFER TUBE

EQUIPMENT AND TERMINATION CABINET

- LH/ZX LH/ZX — GBIC OPTICAL TRANSCEIVER; LH - SHORT HAUL; ZX – LONG HAUL
- 8P8C CONNECTOR
- EMPTY SFP MODULE BAY
- LC TERMINATION – SINGLE FIBER
- LC TERMINATION – 12 FIBER BUFFER TUBE
- WIRELESS ETHERNET RADIO

KEY PLAN



COMMUNICATION NODE 270035.4
REFER TO SHEET 623 FOR COMM OVERVIEW DETAILS

CIP: 540007 – 100012
PID NUMBER: 99733

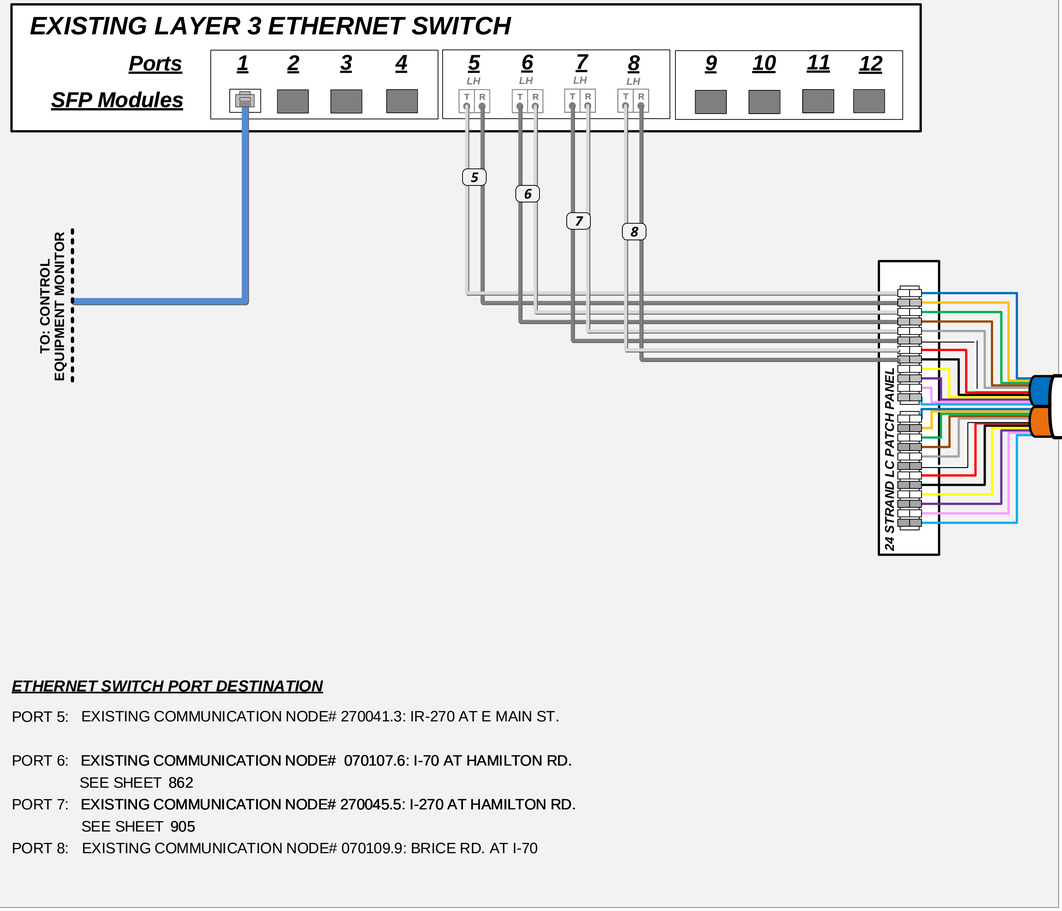
EXISTING COMMUNICATION NODE# 270035.4: I-270 AT I-670
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

903
915

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COMMUNICATION NODE EQUIPMENT CABINET (#2)



ETHERNET SWITCH PORT DESTINATION

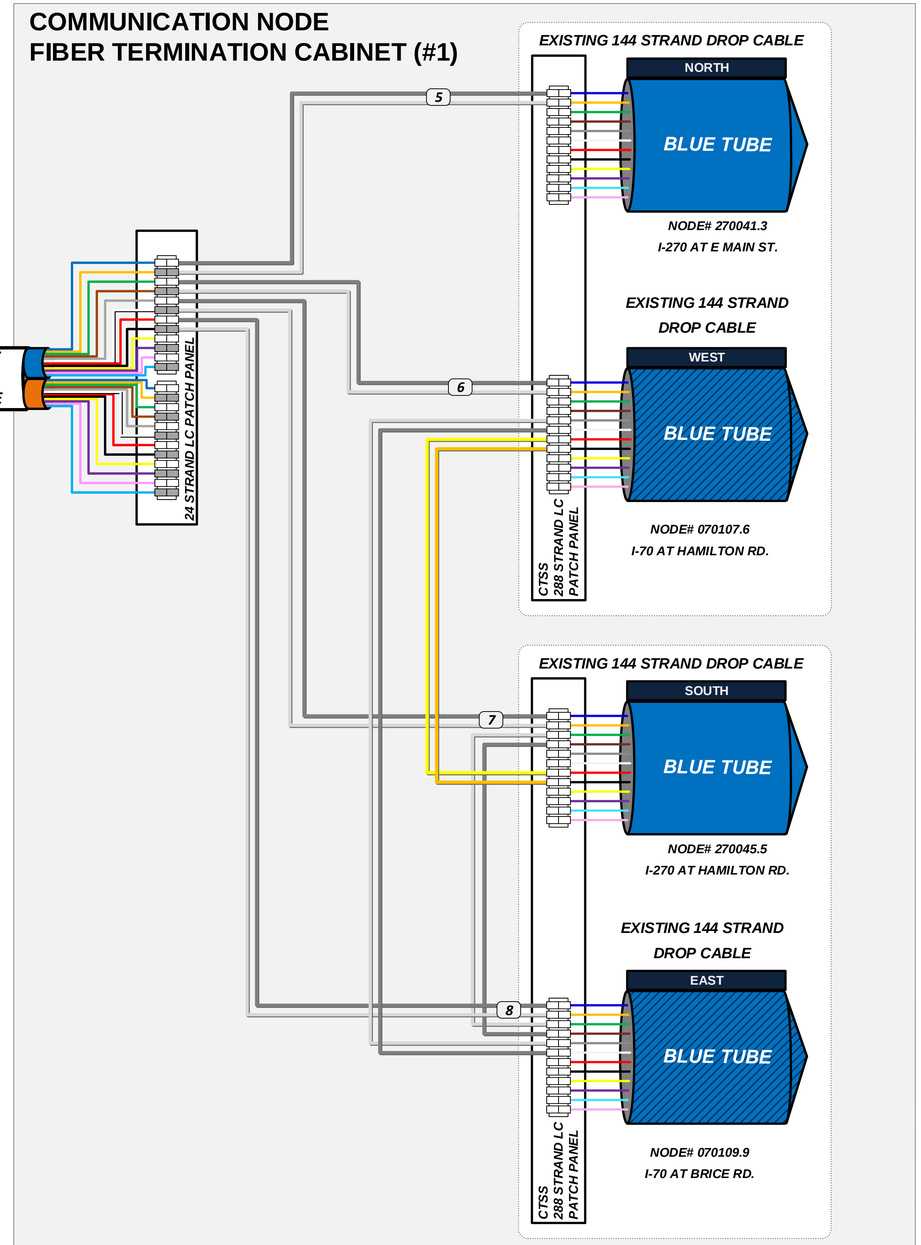
PORT 5: EXISTING COMMUNICATION NODE# 270041.3: IR-270 AT E MAIN ST.

PORT 6: EXISTING COMMUNICATION NODE# 070107.6: I-70 AT HAMILTON RD.
SEE SHEET 862

PORT 7: EXISTING COMMUNICATION NODE# 270045.5: I-270 AT HAMILTON RD.
SEE SHEET 905

PORT 8: EXISTING COMMUNICATION NODE# 070109.9: BRICE RD. AT I-70

COMMUNICATION NODE FIBER TERMINATION CABINET (#1)



LEGEND

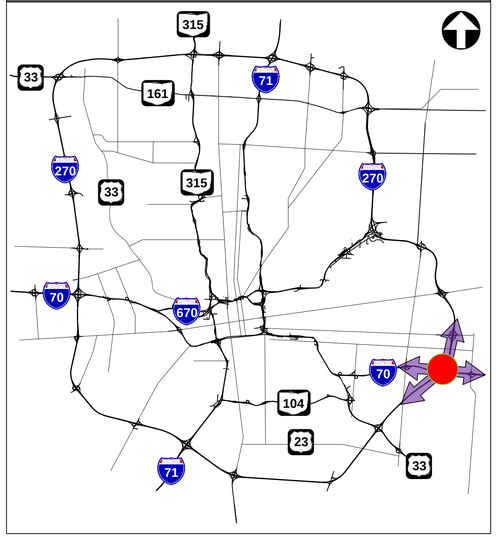
EQUIPMENT CABLE
- FIBER PATCH CABLES Tx/Tx
- CAT 5E CABLE
- FIBER PATCH CABLES Tx/Rx CROSSOVER
- EXISTING FIBER PATCH CABLES

INTERCONNECT CABLE
- 288 STRAND SMF CABLE
- CITYNET SMF CABLE
- 144 STRAND SMF CABLE
- D.O.T. SMF CABLE
- COLUMBUS FIBERNET SMF CABLE

FIBER SPLICING (DARK/LIGHT – PROPOSED/EXISTING)
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- FUSION SPLICE – PARTIAL BUFFER TUBE
- FUSION SPLICE – SINGLE FIBER
- COILED FIBER OR BUFFER TUBE

EQUIPMENT AND TERMINATION CABINET
- LH/ZX LH/ZX — GBIC OPTICAL TRANSCEIVER; LH - SHORT HAUL; ZX – LONG HAUL
- 8P8C CONNECTOR
- EMPTY SFP MODULE BAY
- LC TERMINATION – SINGLE FIBER
- LC TERMINATION – 12 FIBER BUFFER TUBE
- WIRELESS ETHERNET RADIO

KEY PLAN



COMMUNICATION NODE 270043.0
REFER TO SHEET 630 FOR COMM OVERVIEW DETAILS

CIP: 540007 – 100012
PID NUMBER: 99733

EXISTING COMMUNICATION NODE# 270043.0 I-270 AT I-70
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

904
915

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COMMUNICATION NODE EQUIPMENT CABINET (#2)

EXISTING LAYER 3 ETHERNET SWITCH

Ports: 1 | 2 LH | 3 LH | 4 LH | 5 LH | 6 ZX | 7 LH | 8 LH | 9 LH | 10 LH | 11 | 12

SFP Modules

TO: CONTROL EQUIPMENT MONITOR

24 STRAND LC PATCH PANEL

24SMF DROP CABLE

24 STRAND LC PATCH PANEL

ETHERNET SWITCH PORT DESTINATION

PORT 2: EXISTING COMMUNICATION NODE# 270043.0 I-270 AT I-70
SEE SHEET 904

PORT 3: EXISTING CONNECTION – COMMUNICATION NODE# 070109.9: BRICE RD. AT I-70

PORT 4: EXISTING CONNECTION – INT# 2160: HAMILTON RD. AT REFUGEE RD.

PORT 5: EXISTING CONNECTION – INT# 2217: REFUGEE RD. AT TENNYSON BLVD.

PORT 6: EXISTING CONNECTION – INT# 2190: GENDER RD. AT REFUGEE RD.

PORT 7: EXISTING CONNECTION – COMMUNICATION NODE# 2700046.1: I-270 AT US-33

PORT 8: EXISTING COMMUNICATION NODE# 070107.6: I-70 AT HAMILTON RD.
SEE SHEET 862

PORT 9: INT# 2200: COURTRIGHT RD. AT KIMBERLY PKWY.
SEE SHEET 843

PORT 10: INT# 2159: EASTLAND FIVE AT REFUGEE RD.
SEE SHEET 848

LEGEND

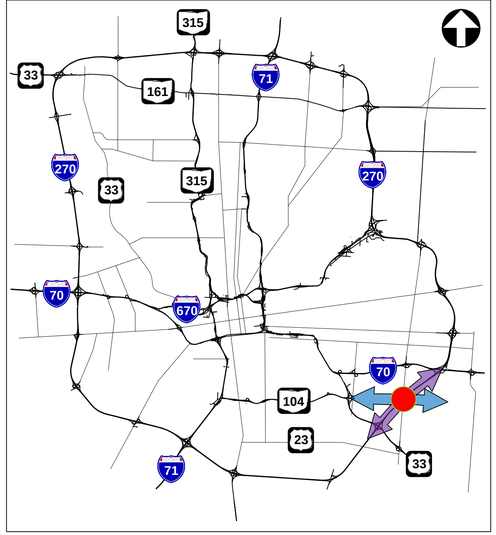
EQUIPMENT CABLE
- FIBER PATCH CABLES Tx/Tx
- CAT 5E CABLE
- FIBER PATCH CABLES Tx/Rx CROSSOVER
- EXISTING FIBER PATCH CABLES

INTERCONNECT CABLE
- 288 STRAND SMF CABLE
- CITYNET SMF CABLE
- 144 STRAND SMF CABLE
- D.O.T. SMF CABLE
- COLUMBUS FIBERNET SMF CABLE

FIBER SPLICING (DARK/LIGHT – PROPOSED/EXISTING)
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- FUSION SPLICE – PARTIAL BUFFER TUBE
- FUSION SPLICE – SINGLE FIBER
- COILED FIBER OR BUFFER TUBE

EQUIPMENT AND TERMINATION CABINET
- LH/ZX LH/ZX — GBIC OPTICAL TRANSCEIVER; LH - SHORT HAUL; ZX – LONG HAUL
- 8P8C CONNECTOR
- EMPTY SFP MODULE BAY
- LC TERMINATION – SINGLE FIBER
- LC TERMINATION – 12 FIBER BUFFER TUBE
- WIRELESS ETHERNET RADIO

KEY PLAN



COMMUNICATION NODE FIBER TERMINATION CABINET (#1)

MATCHLINE A - SEE SHEET 907

144SMF DROP CABLE[2] WEST REFUGEE RD (CTSS TRUNK)

144SMF DROP CABLE EAST REFUGEE RD (CTSS TRUNK)

24SMF DROP CABLE (I-270 BACKBONE)

CTSS 4RU PATCH PANEL

CTSS 1RU PATCH PANEL

EAST
- BLUE TUBE
- ORANGE TUBE
- GREEN TUBE
- BROWN TUBE
- SLATE TUBE
- WHITE TUBE
- SPARE
- RED TUBE
- BLACK TUBE
- YELLOW TUBE
- VIOLET TUBE
- ROSE TUBE
- AQUA TUBE

NORTH
- BLUE TUBE

SOUTH
- ORANGE TUBE

WEST
- BLUE TUBE
- ORANGE TUBE
- GREEN TUBE
- BROWN TUBE
- SLATE TUBE
- WHITE TUBE
- SPARE
- RED TUBE
- BLACK TUBE
- YELLOW TUBE
- VIOLET TUBE
- ROSE TUBE
- AQUA TUBE

NOTES
DoT TERMINATION PANELS SHOWN ON SHEET **906**

[2] PATCH PANEL DROP CABLES SHALL BE FACTORY PRE-TERMINATED AND OF SUFFICIENT LENGTH TO REACH ADJACENT UNDERGROUND OR OVERHEAD ENCLOSURE SPLICE LOCATION.

COMMUNICATION NODE 270045.5

REFER TO SHEET 602 FOR QUANTITY DETAILS

REFER TO SHEET 630 FOR COMM OVERVIEW DETAILS

CIP: 540007 – 100012
PID NUMBER: 99733

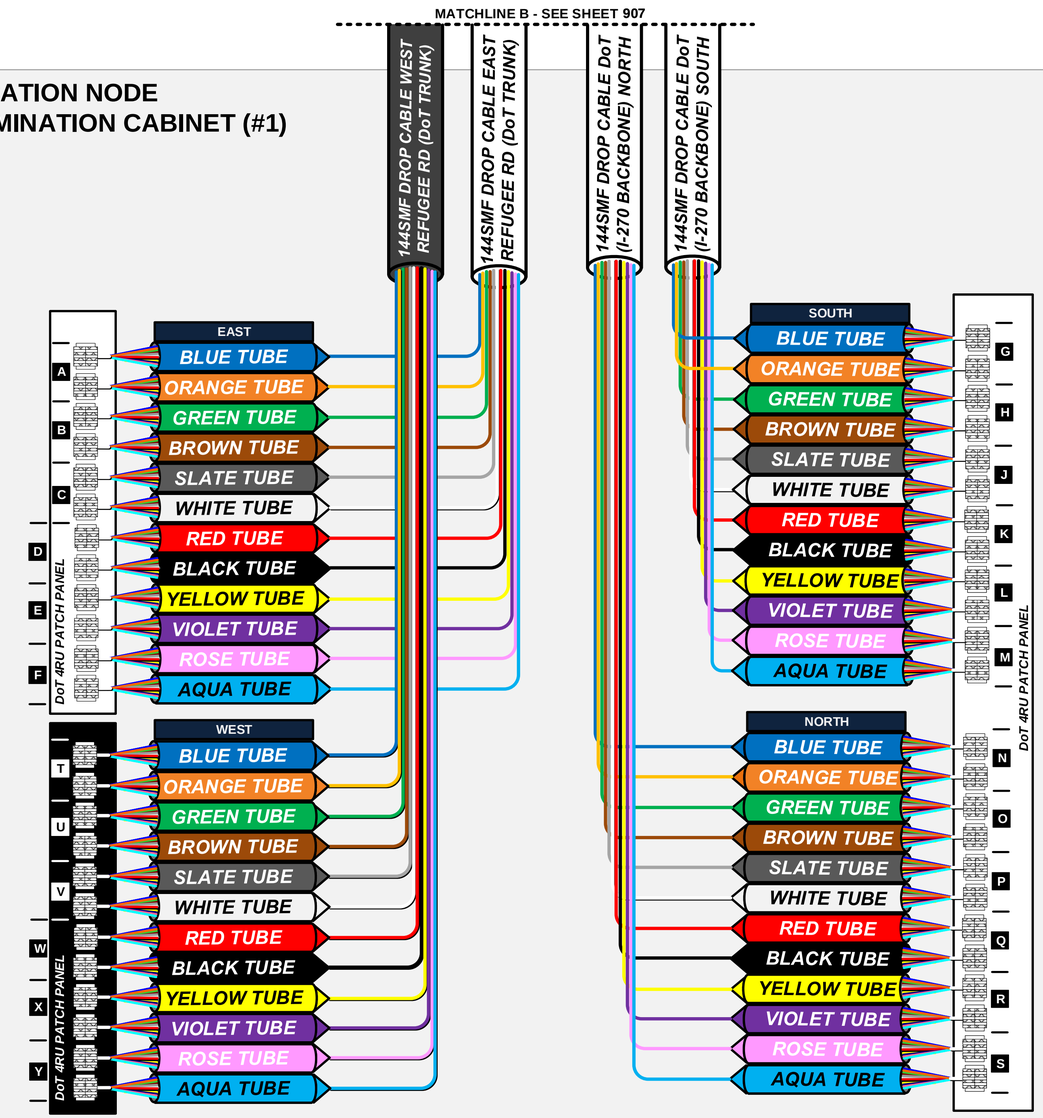
EXISTING COMMUNICATION NODE# 270045.5: I-270 AT HAMILTON RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

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MATCHLINE B - SEE SHEET 907

COMMUNICATION NODE
FIBER TERMINATION CABINET (#1)



LEGEND

EQUIPMENT CABLE

- FIBER PATCH CABLES Tx/Tx
- FIBER PATCH CABLES Tx/Rx CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE

INTERCONNECT CABLE

- 288 STRAND SMF CABLE
- 144 STRAND SMF CABLE
- COLUMBUS FIBERNET SMF CABLE
- CITYNET SMF CABLE
- D.O.T. SMF CABLE

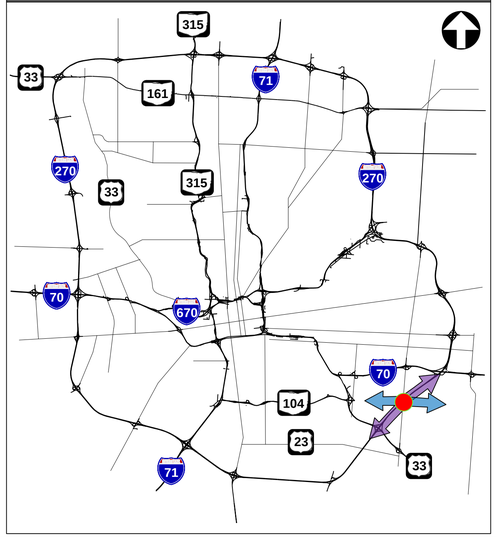
FIBER SPLICING (DARK/LIGHT – PROPOSED/EXISTING)

- FUSION SPLICE – 12 FIBER BUFFER TUBE
- FUSION SPLICE – PARTIAL BUFFER TUBE
- FUSION SPLICE – SINGLE FIBER
- COILED FIBER OR BUFFER TUBE

EQUIPMENT AND TERMINATION CABINET

- LH/ZX — GBIC OPTICAL TRANSCEIVER
  LH - SHORT HAUL
  ZX – LONG HAUL
- 8P8C CONNECTOR
- EMPTY SFP MODULE BAY
- LC TERMINATION – SINGLE FIBER
- LC TERMINATION – 12 FIBER BUFFER TUBE
- WIRELESS ETHERNET RADIO

KEY PLAN



NOTES

CTSS TERMINATION PANELS SHOWN ON SHEET **905**

[2] PATCH PANEL DROP CABLES SHALL BE FACTORY PRE-TERMINATED AND OF SUFFICIENT LENGTH TO REACH ADJACENT UNDERGROUND OR OVERHEAD ENCLOSURE SPLICE LOCATION.

COMMUNICATION NODE 270045.5

REFER TO SHEET 602 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 630 FOR COMM OVERVIEW DETAILS

CIP: 540007 – 100012
PID NUMBER: 99733

EXISTING COMMUNICATION NODE# 270045.5: I-270 AT HAMILTON RD.
FIBER OPTIC SPLICING DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

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CAP AND COIL 150' OF 24SMF FIBER OPTIC CABLE FOR FUTURE ODOT CONNECTION

TO:
INT# 2160: HAMILTON RD. AT REFUGEE RD.

TO:
EXISTING COMMUNICATION NODE# 270043.0: IR-270 AT IR-70

EXISTING 48" PULL BOX

8 Cable Entries
144 Proposed Fusion Splices
288 Total Fusion Splices
15 Proposed Coiled Buffer Tubes
30 Total Coiled Buffer Tubes

EXISTING SPLICE ENCLOSURE

24SMF CABLE ODOT (Future)
144SMF CABLE EAST REFUGEE RD
24SMF CABLE ODOT
24SMF CABLE ODOT
288SMF CABLE NORTH I-270 BACKBONE

144SMF DROP CABLE REFUGEE RD WEST

TO:
INT# 2159: EASTLAND FIVE AT REFUGEE RD.
SEE SHEET 848

1-6
7-12

DOME, 800 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE

144SMF DROP CABLE WEST REFUGEE RD (CTSS TRUNK)
144SMF DROP CABLE EAST RFUGEE RD (CTSS TRUNK)
24SMF DROP CABLE (I-270 BACKBONE)
144SMF DROP CABLE WEST REFUGEE RD (DoT TRUNK)
144SMF DROP CABLE EAST RFUGEE RD (DoT TRUNK)
144SMF DROP CABLE DoT (I-270 BACKBONE) NORTH
144SMF DROP CABLE DoT (I-270 BACKBONE) SOUTH
288SMF CABLE SOUTH I-270 BACKBONE

TO:
PROPOSED COMMUNICATION NODE# 270046.1: IR-270 AT US-33

MATCHLINE A - SEE SHEET 905
MATCHLINE B - SEE SHEET 906

LEGEND

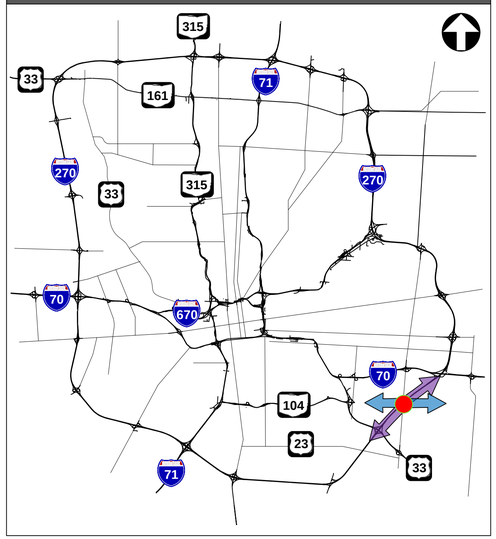
EQUIPMENT CABLE
- FIBER PATCH CABLES Tx/Tx
- FIBER PATCH CABLES Tx/Rx CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE

INTERCONNECT CABLE
- 288 STRAND SMF CABLE
- 144 STRAND SMF CABLE
- COLUMBUS FIBERNET SMF CABLE
- CITYNET SMF CABLE
- D.O.T. SMF CABLE

FIBER SPLICING (DARK/LIGHT – PROPOSED/EXISTING)
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- FUSION SPLICE – PARTIAL BUFFER TUBE
- FUSION SPLICE – SINGLE FIBER
- COILED FIBER OR BUFFER TUBE

EQUIPMENT AND TERMINATION CABINET
- LH/ZX LH/ZX GBIC OPTICAL TRANSCEIVER
  LH - SHORT HAUL
  ZX – LONG HAUL
- 8P8C CONNECTOR
- EMPTY SFP MODULE BAY
- LC TERMINATION – SINGLE FIBER
- LC TERMINATION – 12 FIBER BUFFER TUBE
- WIRELESS ETHERNET RADIO

KEY PLAN



COMMUNICATION NODE 270045.5

REFER TO SHEET 602 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 630 FOR COMM OVERVIEW DETAILS

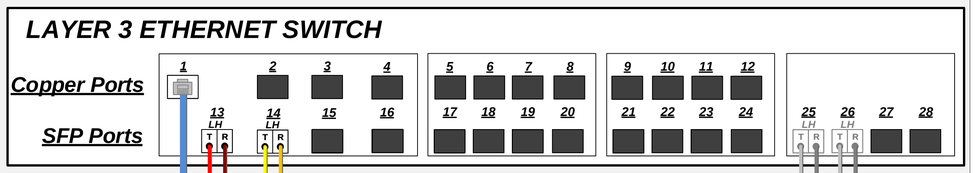
CIP: 540007 – 100012
PID NUMBER: 99733

EXISTING COMMUNICATION NODE# 270045.5: I-270 AT HAMILTON RD.
FIBER OPTIC SPLICING DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

COMMUNICATION NODE EQUIPMENT CABINET (#2)

LAYER 3 ETHERNET SWITCH



TO: CONTROL EQUIPMENT MONITOR

13

14

25

26

24 STRAND LC PATCH PANEL

24SMF DROP CABLE

24 STRAND LC PATCH PANEL

ETHERNET SWITCH PORT DESTINATION

PORT 25: EXISTING COMMUNICATION NODE# 270046.1: I-270 AT US-33

PORT 26: EXISTING COMMUNICATION NODE# 270055.0: I-270 AT I-71
SEE SHEET 910

PORT 13: INT# 2069: HIGH ST. AT OBETZ RD.
SEE SHEET 820

PORT 14: INT# 2068: GREAT SOUTHERN BLVD. SOUTH AT HIGH ST.
SEE SHEET 821

LEGEND

EQUIPMENT CABLE

- FIBER PATCH CABLES Tx/Tx
- CAT 5E CABLE
- FIBER PATCH CABLES Tx/Rx CROSSOVER
- EXISTING FIBER PATCH CABLES

INTERCONNECT CABLE

- 288 STRAND SMF CABLE
- CITYNET SMF CABLE
- 144 STRAND SMF CABLE
- D.O.T. SMF CABLE
- COLUMBUS FIBERNET SMF CABLE

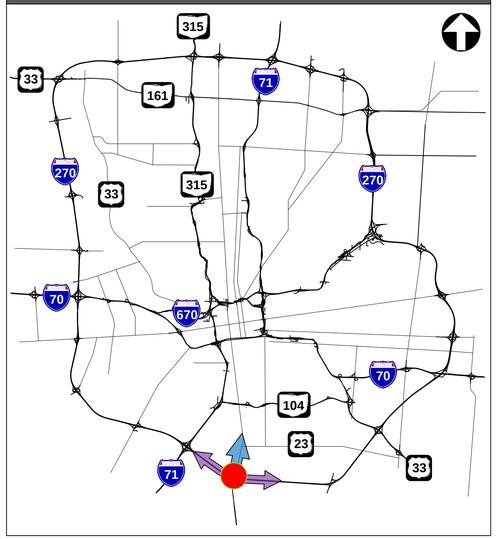
FIBER SPLICING (DARK/LIGHT – PROPOSED/EXISTING)

- FUSION SPLICE – 12 FIBER BUFFER TUBE
- FUSION SPLICE – PARTIAL BUFFER TUBE
- FUSION SPLICE – SINGLE FIBER
- COILED FIBER OR BUFFER TUBE

EQUIPMENT AND TERMINATION CABINET

- LH/ZX LH/ZX — GBIC OPTICAL TRANSCEIVER
  LH - SHORT HAUL
  ZX – LONG HAUL
- 8P8C CONNECTOR
- EMPTY SFP MODULE BAY
- LC TERMINATION – SINGLE FIBER
- LC TERMINATION – 12 FIBER BUFFER TUBE
- WIRELESS ETHERNET RADIO

KEY PLAN



COMMUNICATION NODE FIBER TERMINATION CABINET (#1)

MATCHLINE A - SEE SHEET 909

144SMF DROP CABLE[2] (CTSS TRUNK)

144SMF DROP CABLE[2] (DoT TRUNK)

24SMF DROP CABLE (I-270 BACKBONE) CTSS

144SMF DROP CABLE[2] WEST (I-270 BACKBONE) DoT

144SMF DROP CABLE[2] EAST (I-270 BACKBONE) DoT

13

14

25

26

CTSS 4RU PATCH PANEL

NORTH
- BLUE TUBE
- ORANGE TUBE
- GREEN TUBE
- BROWN TUBE
- SLATE TUBE
- WHITE TUBE

SPARE
- RED TUBE
- BLACK TUBE
- YELLOW TUBE
- VIOLET TUBE
- ROSE TUBE
- AQUA TUBE

CTSS 1RU PATCH PANEL

EAST
- BLUE TUBE

WEST
- ORANGE TUBE

DoT 4RU PATCH PANEL

EAST
- BLUE TUBE
- ORANGE TUBE
- GREEN TUBE
- BROWN TUBE
- SLATE TUBE
- WHITE TUBE
- RED TUBE
- BLACK TUBE
- YELLOW TUBE
- VIOLET TUBE
- ROSE TUBE
- AQUA TUBE

WEST
- BLUE TUBE
- ORANGE TUBE
- GREEN TUBE
- BROWN TUBE
- SLATE TUBE
- WHITE TUBE
- RED TUBE
- BLACK TUBE
- YELLOW TUBE
- VIOLET TUBE
- ROSE TUBE
- AQUA TUBE

DoT 4RU PATCH PANEL

NORTH
- BLUE TUBE
- ORANGE TUBE
- GREEN TUBE
- BROWN TUBE
- SLATE TUBE
- WHITE TUBE

SPARE
- RED TUBE
- BLACK TUBE
- YELLOW TUBE
- VIOLET TUBE
- ROSE TUBE
- AQUA TUBE

DoT 4RU PATCH PANEL

NOTES

[2] PATCH PANEL DROP CABLES SHALL BE FACTORY PRE-TERMINATED AND OF SUFFICIENT LENGTH TO REACH ADJACENT UNDERGROUND OR OVERHEAD ENCLOSURE SPLICE LOCATION.

COMMUNICATION NODE 270052.7

REFER TO SHEET 576 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 628 FOR COMM OVERVIEW DETAILS

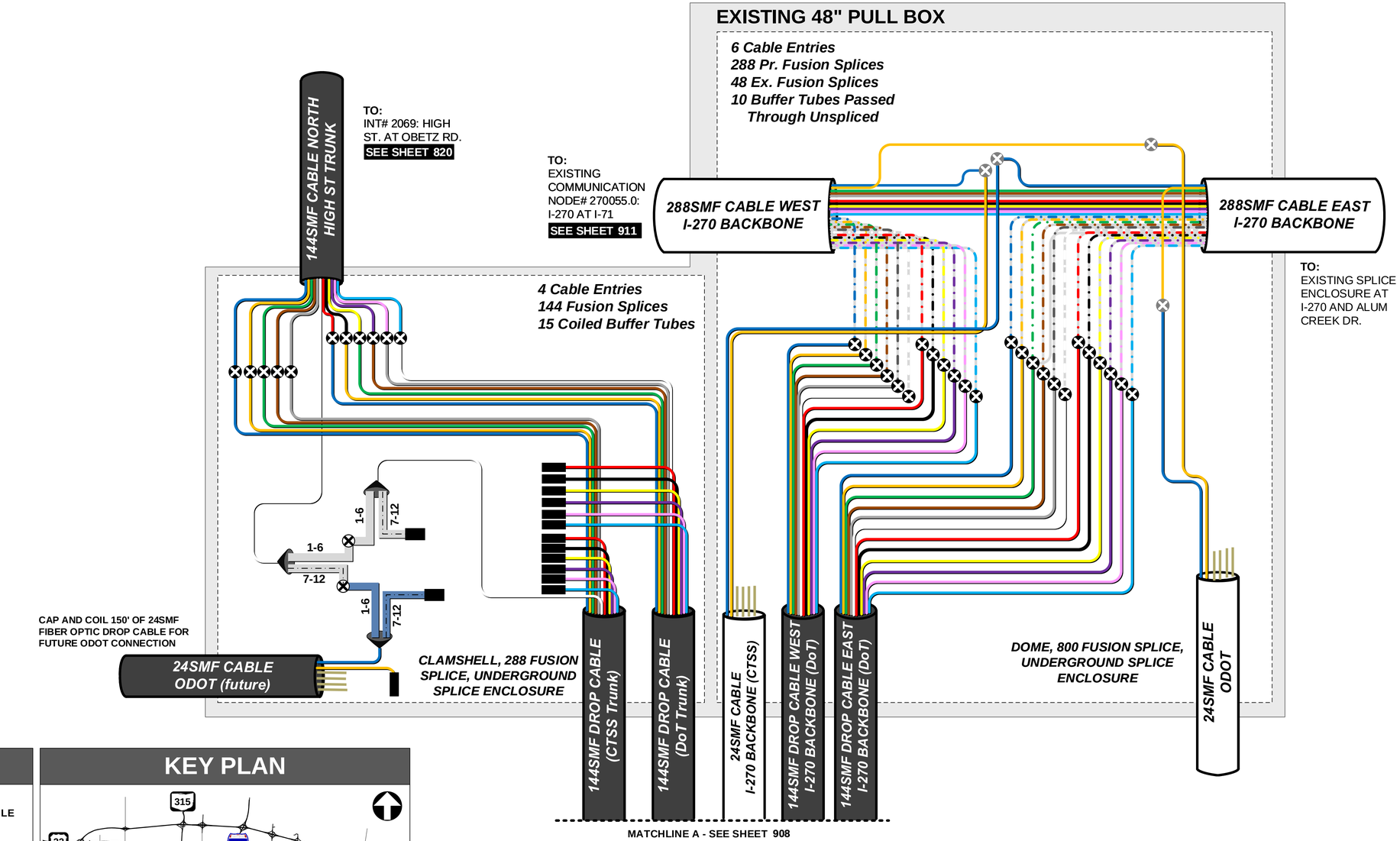
CIP: 540007 – 100012
PID NUMBER: 99733

EXISTING COMMUNICATION NODE# 270052.7: I-270 AT US-23
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

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LEGEND

EQUIPMENT CABLE

- FIBER PATCH CABLES Tx/Tx
- CAT 5E CABLE
- FIBER PATCH CABLES Tx/Rx CROSSOVER
- EXISTING FIBER PATCH CABLES

INTERCONNECT CABLE

- 288 STRAND SMF CABLE
- CITYNET SMF CABLE
- 144 STRAND SMF CABLE
- D.O.T. SMF CABLE
- COLUMBUS FIBERNET SMF CABLE

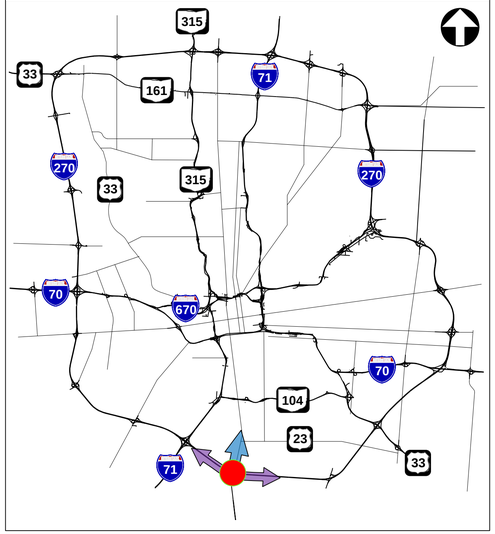
FIBER SPLICING (DARK/LIGHT – PROPOSED/EXISTING)

- FUSION SPLICE – 12 FIBER BUFFER TUBE
- FUSION SPLICE – PARTIAL BUFFER TUBE
- FUSION SPLICE – SINGLE FIBER
- COILED FIBER OR BUFFER TUBE

EQUIPMENT AND TERMINATION CABINET

- LH/ZX LH/ZX — GBIC OPTICAL TRANSCEIVER; LH - SHORT HAUL; ZX – LONG HAUL
- 8P8C CONNECTOR
- EMPTY SFP MODULE BAY
- LC TERMINATION – SINGLE FIBER
- LC TERMINATION – 12 FIBER BUFFER TUBE
- WIRELESS ETHERNET RADIO

KEY PLAN



COMMUNICATION NODE 270052.7

REFER TO SHEET 576 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 628 FOR COMM OVERVIEW DETAILS

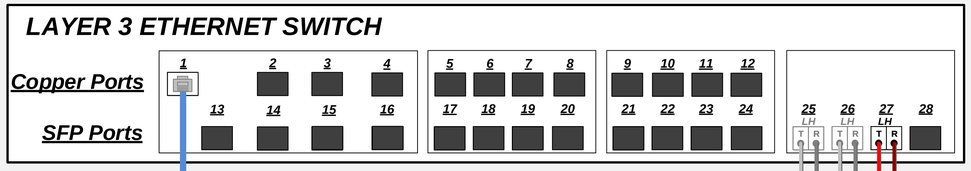
CIP: 540007 – 100012
PID NUMBER: 99733

EXISTING COMMUNICATION NODE# 270052.7: I-270 AT US-23
FIBER OPTIC SPLICING DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

COMMUNICATION NODE EQUIPMENT CABINET (#2)

LAYER 3 ETHERNET SWITCH



TO: CONTROL EQUIPMENT MONITOR

25
26
27

24 STRAND LC PATCH PANEL

24SMF DROP CABLE

24 STRAND LC PATCH PANEL

ETHERNET SWITCH PORT DESTINATION

PORT 25: EXISTING COMMUNICATION NODE# 270052.7: I-270 AT US-23
SEE SHEET 908

PORT 26: EXISTING COMMUNICATION NODE# 270002.1: I-270 AT HARRISBURG PIKE.

PORT 27: PROPOSED COMMUNICATION NODE# 071104.0: SR-104 AT I-71
SEE SHEET 864

LEGEND

EQUIPMENT CABLE

- FIBER PATCH CABLES Tx/Tx
- CAT 5E CABLE
- FIBER PATCH CABLES Tx/Rx CROSSOVER
- EXISTING FIBER PATCH CABLES

INTERCONNECT CABLE

- 288 STRAND SMF CABLE
- CITYNET SMF CABLE
- 144 STRAND SMF CABLE
- D.O.T. SMF CABLE
- COLUMBUS FIBERNET SMF CABLE

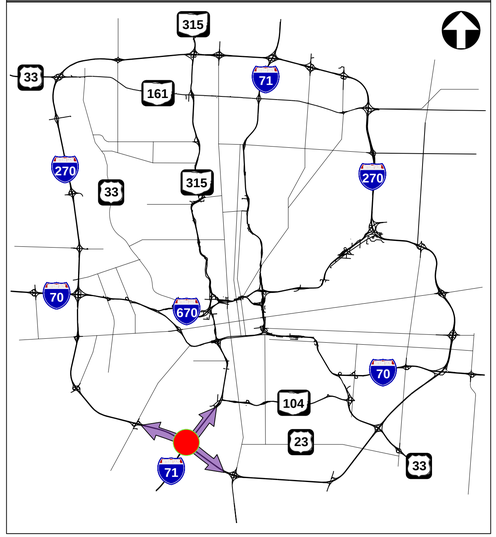
FIBER SPLICING (DARK/LIGHT – PROPOSED/EXISTING)

- FUSION SPLICE – 12 FIBER BUFFER TUBE
- FUSION SPLICE – PARTIAL BUFFER TUBE
- FUSION SPLICE – SINGLE FIBER
- COILED FIBER OR BUFFER TUBE

EQUIPMENT AND TERMINATION CABINET

- LH/ZX LH/ZX — GBIC OPTICAL TRANSCEIVER; LH - SHORT HAUL; ZX – LONG HAUL
- 8P8C CONNECTOR
- EMPTY SFP MODULE BAY
- LC TERMINATION – SINGLE FIBER
- LC TERMINATION – 12 FIBER BUFFER TUBE
- WIRELESS ETHERNET RADIO

KEY PLAN



MATCHLINE A - SEE SHEET 911

MATCHLINE B - SEE SHEET 911

COMMUNICATION NODE FIBER TERMINATION CABINET (#1)

26
27
25

CTSS 4RU PATCH PANEL

WEST
BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE
RED TUBE
BLACK TUBE
YELLOW TUBE
VIOLET TUBE
ROSE TUBE
AQUA TUBE

NORTH
BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE
RED TUBE
BLACK TUBE
YELLOW TUBE
VIOLET TUBE
ROSE TUBE
AQUA TUBE

EAST
BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE
RED TUBE
BLACK TUBE
YELLOW TUBE
VIOLET TUBE
ROSE TUBE
AQUA TUBE

144SMF DROP CABLE[2] WEST (CTSS TRUNK)
144SMF DROP CABLE[2] NORTH (CTSS TRUNK)
144SMF DROP CABLE[2] EAST (CTSS TRUNK)

144SMF DROP CABLE[2] WEST (DoT TRUNK)
144SMF DROP CABLE[2] NORTH (DoT TRUNK)
144SMF DROP CABLE[2] EAST (DoT TRUNK)

DoT 4RU PATCH PANEL

NOTES

[2] PATCH PANEL DROP CABLES SHALL BE FACTORY PRE-TERMINATED AND OF SUFFICIENT LENGTH TO REACH ADJACENT UNDERGROUND OR OVERHEAD ENCLOSURE SPLICE LOCATION.

COMMUNICATION NODE 270055.0

REFER TO SHEET 569 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 629 FOR COMM OVERVIEW DETAILS

CIP: 540007 – 100012
PID NUMBER: 99733

EXISTING COMMUNICATION NODE# 270055.0: I-270 AT I-71
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

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MATCHLINE A - SEE SHEET 910

MATCHLINE B - SEE SHEET 910

CAP AND COIL 150' OF 24SMF FIBER OPTIC CABLE FOR FUTURE ODOT CONNECTION

TO:
PROPOSED COMMUNICATION NODE# 071104.0: SR-104 AT I-71
SEE SHEET 866

144SMF DROP CABLE WEST (CTSS TRUNK)

144SMF DROP CABLE NORTH (CTSS TRUNK)

144SMF DROP CABLE EAST (CTSS TRUNK)

144SMF DROP CABLE WEST (DoT TRUNK)

24SMF CABLE ODOT

288SMF CABLE NORTH I-71 BACKBONE

CLAMSHELL, 288 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE[1]

144SMF DROP CABLE NORTH (DoT TRUNK)

144SMF DROP CABLE EAST (DoT TRUNK)

EXISTING 48" PULL BOX

TO:
EXISTING COMMUNICATION NODE# 270002.1: IR-270 AT HARRISBURG PIKE.

288SMF CABLE WEST I-270 BACKBONE

24SMF CABLE ODOT (Future)

CLAMSHELL, 288 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE[1]

CAP AND COIL 150' OF 24SMF FIBER OPTIC CABLE FOR FUTURE ODOT CONNECTION

288SMF CABLE EAST I-270 BACKBONE

TO:
EXISTING COMMUNICATION NODE# 270052.7: I-270 AT US-23
SEE SHEET 909

CLAMSHELL, 288 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE[1]

24SMF CABLE ODOT (Future)

CAP AND COIL 150' OF 24SMF FIBER OPTIC CABLE FOR FUTURE ODOT CONNECTION

LEGEND

EQUIPMENT CABLE

- FIBER PATCH CABLES Tx/Tx
- CAT 5E CABLE
- FIBER PATCH CABLES Tx/Rx CROSSOVER
- EXISTING FIBER PATCH CABLES

INTERCONNECT CABLE

- 288 STRAND SMF CABLE
- CITYNET SMF CABLE
- 144 STRAND SMF CABLE
- D.O.T. SMF CABLE
- COLUMBUS FIBERNET SMF CABLE

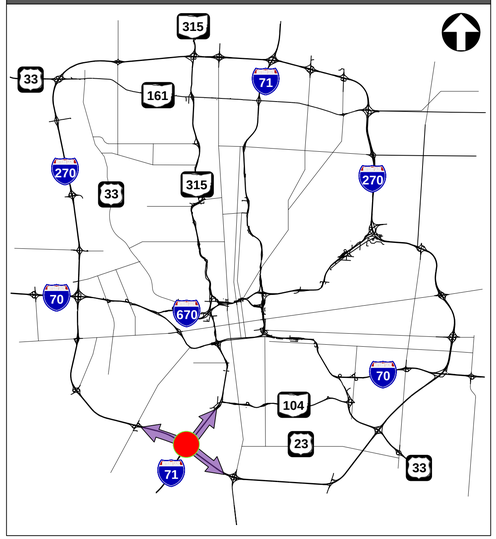
FIBER SPLICING (DARK/LIGHT – PROPOSED/EXISTING)

- FUSION SPLICE – 12 FIBER BUFFER TUBE
- FUSION SPLICE – PARTIAL BUFFER TUBE
- FUSION SPLICE – SINGLE FIBER
- COILED FIBER OR BUFFER TUBE

EQUIPMENT AND TERMINATION CABINET

- LH/ZX LH/ZX — GBIC OPTICAL TRANSCEIVER; LH - SHORT HAUL; ZX – LONG HAUL
- 8P8C CONNECTOR
- EMPTY SFP MODULE BAY
- LC TERMINATION – SINGLE FIBER
- LC TERMINATION – 12 FIBER BUFFER TUBE
- WIRELESS ETHERNET RADIO

KEY PLAN



NOTES

REMOVE EXISTING 24 STRAND DROP CABLES AND FUSION SPLICE. RESPLICE 288 STRAND FIBERS AS SHOWN IN THE DIAGRAM ABOVE.

[1]EACH CLAMSHELL, 288 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE MUST ACCOMMODATE 4 CABLE ENTRY PORTS, 288 FUSION SPLICES, AND 2 COILED BUFFER TUBES.

COMMUNICATION NODE 270055.0

REFER TO SHEET 569 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 629 FOR COMM OVERVIEW DETAILS

CIP: 540007 – 100012
PID NUMBER: 99733

EXISTING COMMUNICATION NODE# 270055.0: I-270 AT I-71
FIBER OPTIC SPLICING DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

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COMMUNICATION NODE EQUIPMENT CABINET (#2)

EXISTING LAYER 3 ETHERNET SWITCH

Ports: 1 2 3 4 | 5 LH 6 LH 7 LH 8 LH | 9 10 11 12

TO: CONTROL EQUIPMENT MONITOR

5 6 7 8

24 STRAND LC PATCH PANEL

24SMF DROP CABLE

24 STRAND LC PATCH PANEL

7 8

ETHERNET SWITCH PORT DESTINATION

PORT 5: EXISTING COMMUNICATION NODE# 071109.0: I-670 AT I-71

PORT 6: EXISTING COMMUNICATION NODE# 670009.0: I-670 AT STELZER RD.
SEE SHEET 914

PORT 7: INT# 3207: I-670 WB AT LEONARD AVE.
SEE SHEET 753

PORT 8: INT# 3097: LEONARD AVE. AT TAYLOR AVE.
SEE SHEET 751

COMMUNICATION NODE FIBER TERMINATION CABINET (#1)

MATCHLINE A - SEE SHEET 913

144SMF DROP CABLE[2] (CTSS TRUNK)

144SMF DROP CABLE[2] (DoT TRUNK)

24SMF DROP CABLE (I-670 BACKBONE) CTSS

144SMF DROP CABLE[2] WEST (I-670 BACKBONE) DoT

144SMF DROP CABLE[2] EAST (I-670 BACKBONE) DoT

CTSS 4RU PATCH PANEL

NORTH: BLUE TUBE, ORANGE TUBE, GREEN TUBE, BROWN TUBE, SLATE TUBE, WHITE TUBE

SOUTH: RED TUBE, BLACK TUBE, YELLOW TUBE, VIOLET TUBE, ROSE TUBE, AQUA TUBE

CTSS 1RU PATCH PANEL

EAST: BLUE TUBE

WEST: ORANGE TUBE

DoT 4RU PATCH PANEL

EAST: BLUE TUBE, ORANGE TUBE, GREEN TUBE, BROWN TUBE, SLATE TUBE, WHITE TUBE, RED TUBE, BLACK TUBE, YELLOW TUBE, VIOLET TUBE, ROSE TUBE, AQUA TUBE

WEST: BLUE TUBE, ORANGE TUBE, GREEN TUBE, BROWN TUBE, SLATE TUBE, WHITE TUBE, RED TUBE, BLACK TUBE, YELLOW TUBE, VIOLET TUBE, ROSE TUBE, AQUA TUBE

NORTH: BLUE TUBE, ORANGE TUBE, GREEN TUBE, BROWN TUBE, SLATE TUBE, WHITE TUBE

SOUTH: RED TUBE, BLACK TUBE, YELLOW TUBE, VIOLET TUBE, ROSE TUBE, AQUA TUBE

NOTES

[1] PRE-TERMINATED 24SMF CABLE INSTALLED IN 4" CONDUIT CONNECTING CABINETS.

[2] PATCH PANEL DROP CABLES SHALL BE FACTORY PRE-TERMINATED AND OF SUFFICIENT LENGTH TO REACH ADJACENT UNDERGROUND OR OVERHEAD ENCLOSURE SPLICE LOCATION.

3. DISCONNECT EXISTING LC FIBER PATCH CABLES BETWEEN EXISTING PATCH PANEL AND NETWORK SWITCH. REPLACE CONNECTION WITH PATCH CABLES AS SHOWN ON PLAN ABOVE.

LEGEND

EQUIPMENT CABLE

- FIBER PATCH CABLES Tx/Tx
- CAT 5E CABLE
- FIBER PATCH CABLES Tx/Rx CROSSOVER
- EXISTING FIBER PATCH CABLES

INTERCONNECT CABLE

- 288 STRAND SMF CABLE
- CITYNET SMF CABLE
- 144 STRAND SMF CABLE
- D.O.T. SMF CABLE
- COLUMBUS FIBERNET SMF CABLE

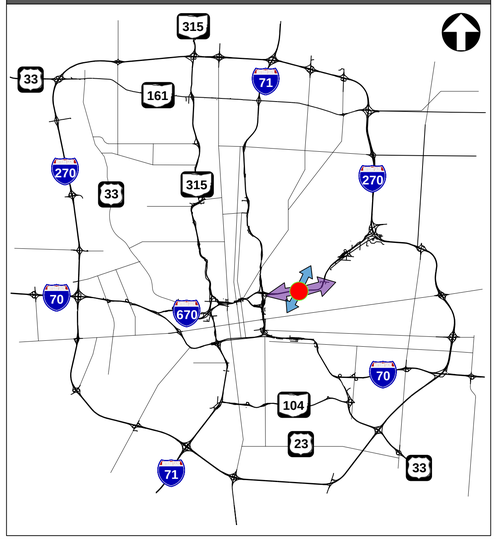
FIBER SPLICING (DARK/LIGHT – PROPOSED/EXISTING)

- FUSION SPLICE – 12 FIBER BUFFER TUBE
- FUSION SPLICE – PARTIAL BUFFER TUBE
- FUSION SPLICE – SINGLE FIBER
- COILED FIBER OR BUFFER TUBE

EQUIPMENT AND TERMINATION CABINET

- LH/ZX LH/ZX — GBIC OPTICAL TRANSCEIVER; LH - SHORT HAUL; ZX – LONG HAUL
- 8P8C CONNECTOR
- EMPTY SFP MODULE BAY
- LC TERMINATION – SINGLE FIBER
- LC TERMINATION – 12 FIBER BUFFER TUBE
- WIRELESS ETHERNET RADIO

KEY PLAN



COMMUNICATION NODE 670006.5

REFER TO SHEET 583 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 622 FOR COMM OVERVIEW DETAILS

CIP: 540007 – 100012
PID NUMBER: 99733

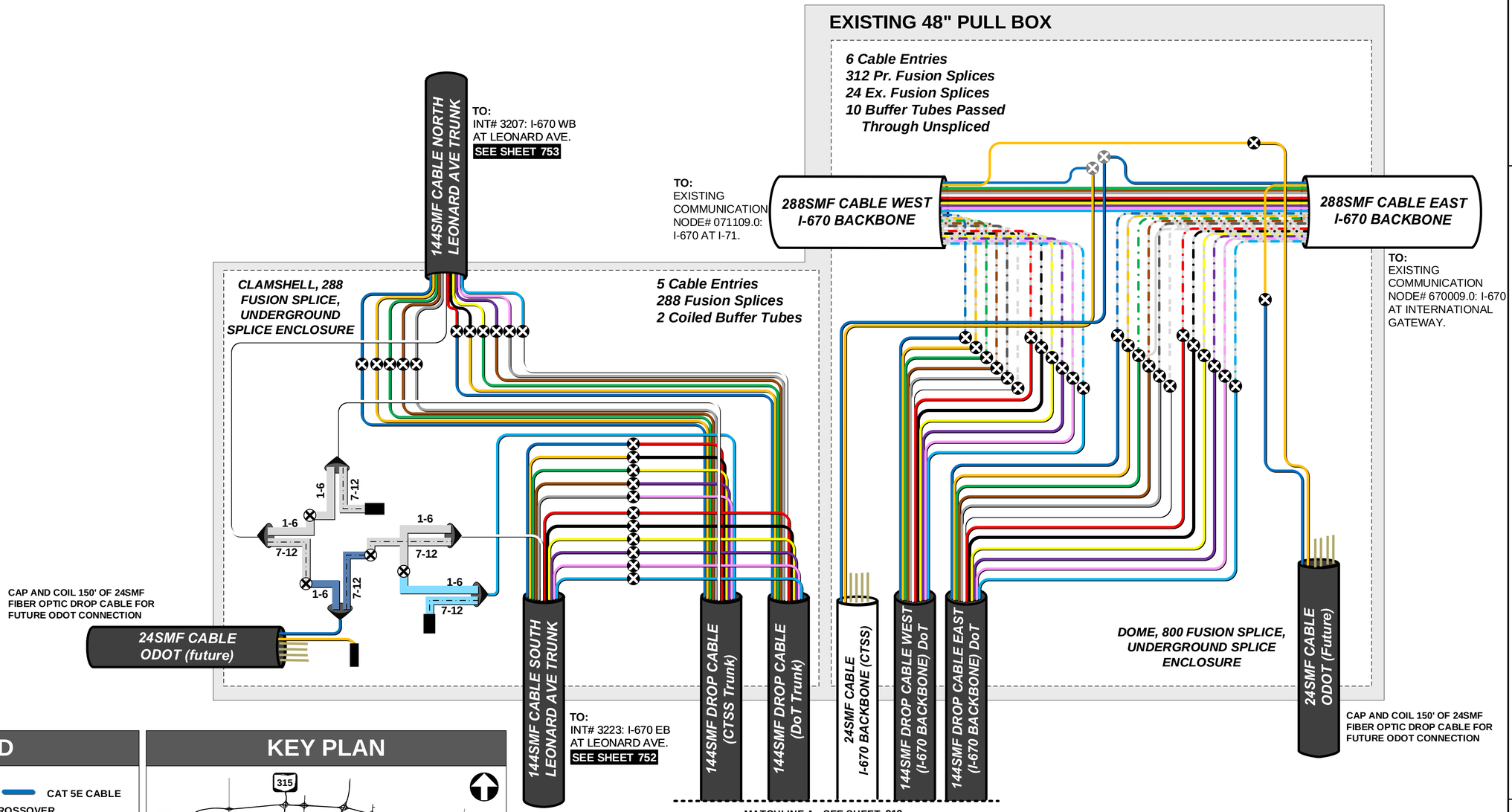
EXISTING COMMUNICATION NODE# 670006.5: I-670 AT LEONARD AVE.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

912
915

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LEGEND

EQUIPMENT CABLE

- FIBER PATCH CABLES Tx/Tx
- CAT 5E CABLE
- FIBER PATCH CABLES Tx/Rx CROSSOVER
- EXISTING FIBER PATCH CABLES

INTERCONNECT CABLE

- 288 STRAND SMF CABLE
- CITYNET SMF CABLE
- 144 STRAND SMF CABLE
- D.O.T. SMF CABLE
- COLUMBUS FIBERNET SMF CABLE

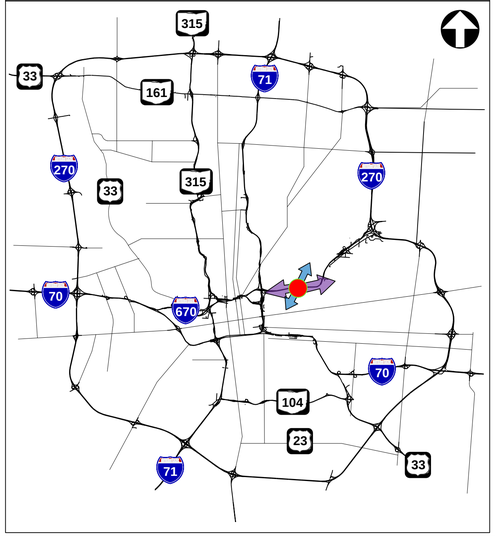
FIBER SPLICING (DARK/LIGHT – PROPOSED/EXISTING)

- FUSION SPLICE – 12 FIBER BUFFER TUBE
- FUSION SPLICE – PARTIAL BUFFER TUBE
- FUSION SPLICE – SINGLE FIBER
- COILED FIBER OR BUFFER TUBE

EQUIPMENT AND TERMINATION CABINET

- LH/ZX LH/ZX — GBIC OPTICAL TRANSCEIVER; LH - SHORT HAUL; ZX – LONG HAUL
- 8P8C CONNECTOR
- EMPTY SFP MODULE BAY
- LC TERMINATION – SINGLE FIBER
- LC TERMINATION – 12 FIBER BUFFER TUBE
- WIRELESS ETHERNET RADIO

KEY PLAN



COMMUNICATION NODE 670006.5

REFER TO SHEET 583 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 622 FOR COMM OVERVIEW DETAILS

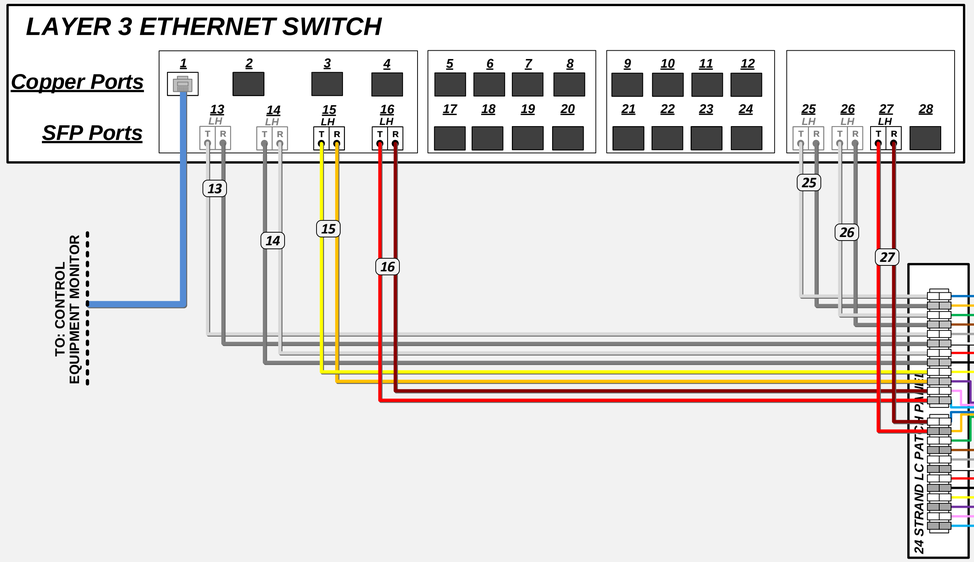
CIP: 540007 – 100012
PID NUMBER: 99733

EXISTING COMMUNICATION NODE# 670006.5: I-670 AT LEONARD AVE.
FIBER OPTIC SPLICING DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

COMMUNICATION NODE EQUIPMENT CABINET (#2)

LAYER 3 ETHERNET SWITCH



ETHERNET SWITCH PORT DESTINATION

PORT 13: EXISTING CONNECTION – INT# 3297: INTERNATIONAL GATEWAY AT STELZER RD.

PORT 14: EXISTING CONNECTION – INT# SIG4295: JOHNSTOWN RD. AT STELZER RD.

PORT 15: INT# 3298: AGLER RD. AT STELZER RD.
SEE SHEET 765

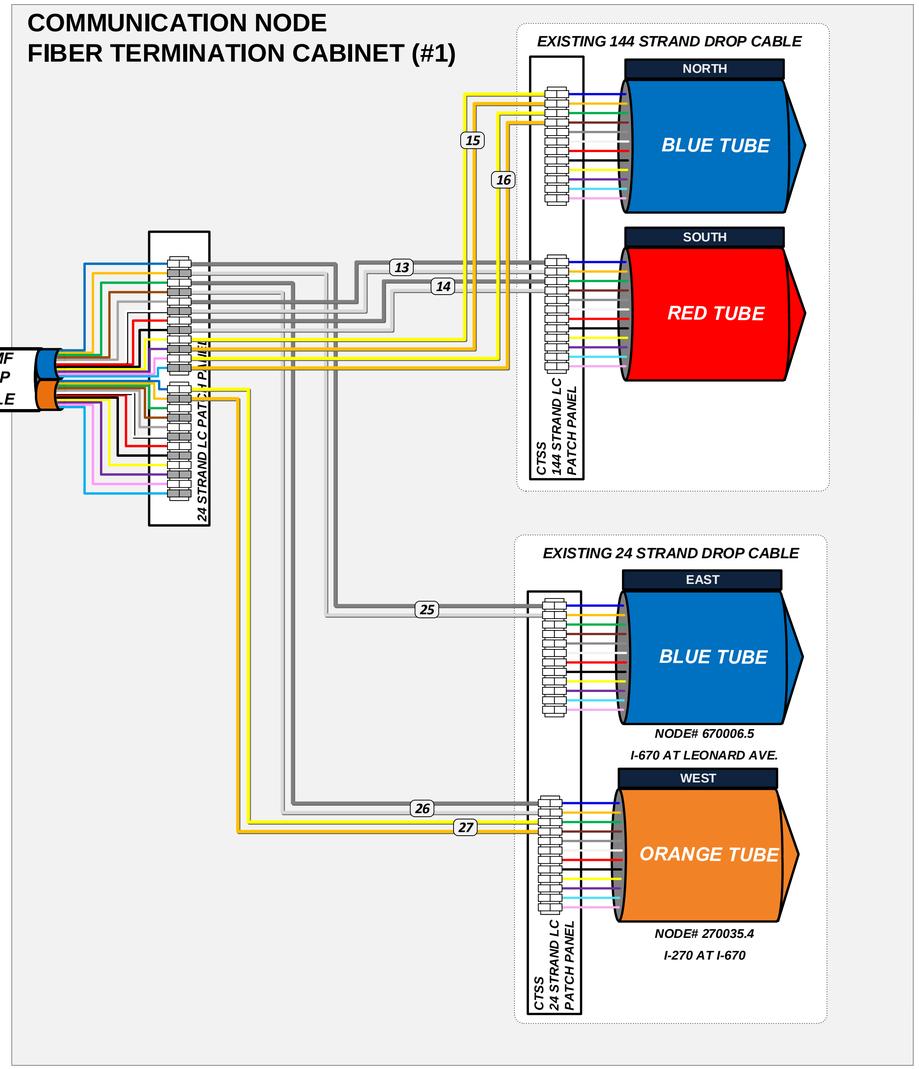
PORT 16: INT# 3304: CITYGATE DR. AT STELZER RD.
SEE SHEET 764

PORT 25: EXISTING COMMUNICATION NODE# 270035.4: I-270 AT I-670
SEE SHEET 903

PORT 26: EXISTING COMMUNICATION NODE# 670006.5: I-670 AT LEONARD AVE.
SEE SHEET 912

PORT 27: EXISTING COMMUNICATION NODE# 270032.2: I-270 AT MORSE RD.
SEE SHEET 902

COMMUNICATION NODE FIBER TERMINATION CABINET (#1)



LEGEND

EQUIPMENT CABLE

- FIBER PATCH CABLES Tx/Tx
- CAT 5E CABLE
- FIBER PATCH CABLES Tx/Rx CROSSOVER
- EXISTING FIBER PATCH CABLES

INTERCONNECT CABLE

- 288 STRAND SMF CABLE
- CITYNET SMF CABLE
- 144 STRAND SMF CABLE
- D.O.T. SMF CABLE
- COLUMBUS FIBERNET SMF CABLE

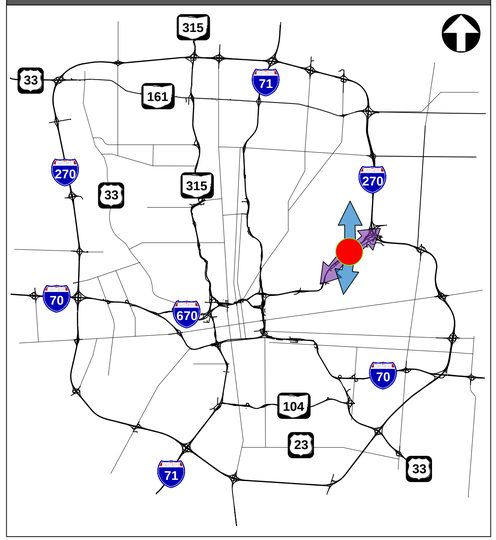
FIBER SPLICING (DARK/LIGHT – PROPOSED/EXISTING)

- FUSION SPLICE – 12 FIBER BUFFER TUBE
- FUSION SPLICE – PARTIAL BUFFER TUBE
- FUSION SPLICE – SINGLE FIBER
- COILED FIBER OR BUFFER TUBE

EQUIPMENT AND TERMINATION CABINET

- *LH/ZX* GBIC OPTICAL TRANSCEIVER
  LH - SHORT HAUL
  ZX – LONG HAUL
- 8P8C CONNECTOR
- EMPTY SFP MODULE BAY
- LC TERMINATION – SINGLE FIBER
- LC TERMINATION – 12 FIBER BUFFER TUBE
- WIRELESS ETHERNET RADIO

KEY PLAN



COMMUNICATION NODE 670009.0

REFER TO SHEET 562 FOR QUANTITY DETAILS
REFER TO SHEET 623 FOR COMM OVERVIEW DETAILS

CIP: 540007 – 100012
PID NUMBER: 99733

EXISTING COMMUNICATION NODE# 670009.0: I-670 AT STELZER RD.
COMMUNICATIONS DIAGRAM

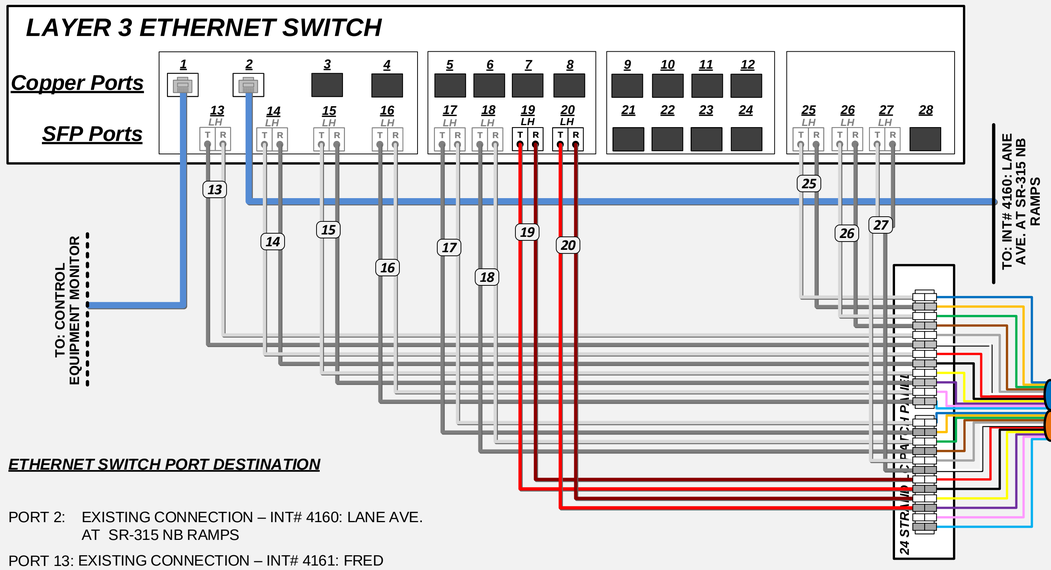
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

914
915

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COMMUNICATION NODE EQUIPMENT CABINET (#2)

LAYER 3 ETHERNET SWITCH



ETHERNET SWITCH PORT DESTINATION

PORT 2: EXISTING CONNECTION – INT# 4160: LANE AVE. AT SR-315 NB RAMPS

PORT 13: EXISTING CONNECTION – INT# 4161: FRED TAYLOR DR./ FYFEE RD. AT LANE AVE.

PORT 14: EXISTING CONNECTION – INT# 4054: ARGYLL ST. AT OLENTANGY RIVER RD.

PORT 15: EXISTING CONNECTION – INT# 4158: KENNY RD. AT LANE AVE.

PORT 16: EXISTING CONNECTION – INT# 4159: LANE AVE. AT SR-315 SB RAMPS

PORT 17: EXISTING CONNECTION – INT# 4088: FIFTH AVE. AT KENNY RD.

PORT 18: EXISTING CONNECTION – INT# 4087: EDGEHILL RD. AT FIFTH AVE.

PORT 19: INT# 3190: SEVENTEENTH AVE. AT SUMMIT ST. SEE SHEET 730

PORT 20: INT# 3191: LANE AVE. AT SUMMIT ST. SEE SHEET 731

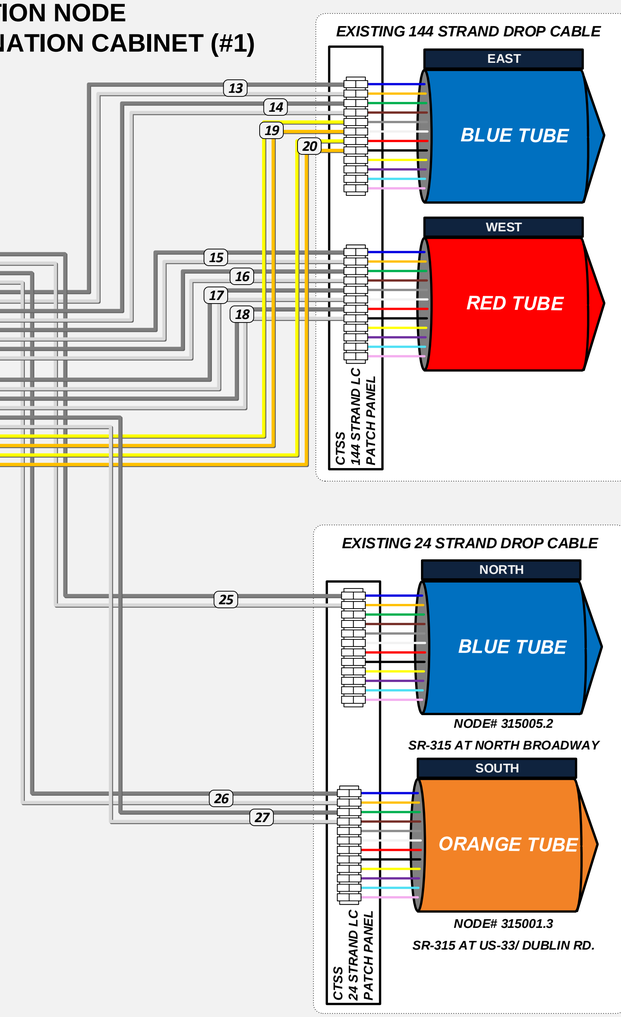
ETHERNET SWITCH PORT DESTINATION

PORT 25: EXISTING CONNECTION – COMUNICATION NODE# 315005.2: SR-315 AT ACKERMAN RD. (LAYER 3)

PORT 26: EXISTING COMMUNICATION NODE# 315001.3: SR-315 AT US-33/ DUBLIN RD.

PORT 27: EXISTING CONNECTION – COMUNICATION NODE# 315005.2: SR-315 AT ACKERMAN RD. (LAYER 2 TRUNK)

COMMUNICATION NODE FIBER TERMINATION CABINET (#1)



LEGEND

EQUIPMENT CABLE

- FIBER PATCH CABLES Tx/Tx
- FIBER PATCH CABLES Tx/Rx CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE

INTERCONNECT CABLE

- 288 STRAND SMF CABLE
- 144 STRAND SMF CABLE
- COLUMBUS FIBERNET SMF CABLE
- CITYNET SMF CABLE
- D.O.T. SMF CABLE

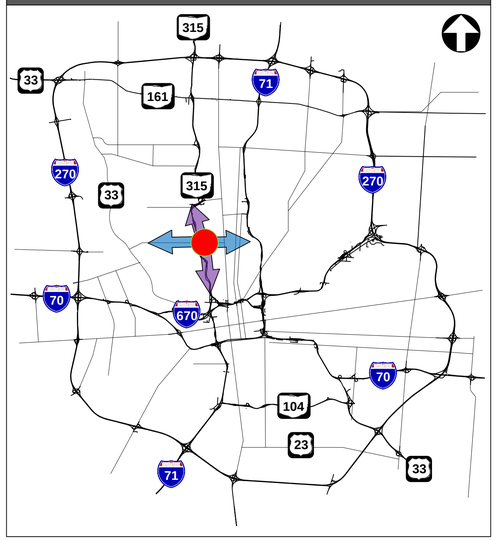
FIBER SPLICING (DARK/LIGHT – PROPOSED/EXISTING)

- FUSION SPLICE – 12 FIBER BUFFER TUBE
- FUSION SPLICE – PARTIAL BUFFER TUBE
- FUSION SPLICE – SINGLE FIBER
- COILED FIBER OR BUFFER TUBE

EQUIPMENT AND TERMINATION CABINET

- LH/ZX LH/ZX — GBIC OPTICAL TRANSCEIVER; LH - SHORT HAUL; ZX – LONG HAUL
- 8P8C CONNECTOR
- EMPTY SFP MODULE BAY
- LC TERMINATION – SINGLE FIBER
- LC TERMINATION – 12 FIBER BUFFER TUBE
- WIRELESS ETHERNET RADIO

KEY PLAN



COMMUNICATION NODE 315004.4

REFER TO SHEET 562 FOR QUANTITY DETAILS

REFER TO SHEET 621 FOR COMM OVERVIEW DETAILS

CIP: 540007 – 100012
PID NUMBER: 99733

EXISTING COMMUNICATION NODE# 315004.4: SR-315 AT LANE AVE.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE E – FINAL SUBMITTAL

915
915

J:\Jobs\63721 CTSS Phase E\TECHPROD\Communications\Nodes\Phase E comm nodes.vsd - 315004.4 layout - last saved by: Sai Geetha Koganti 9/5/2018 5:24:02 PM ~ printed: 9/5/2018 5:24:02 PM