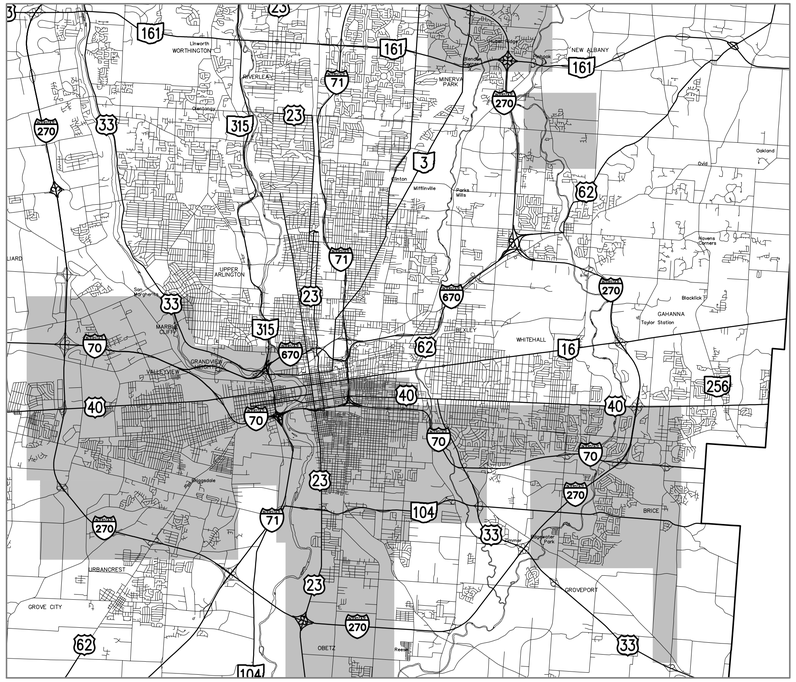
CITY OF COLUMBUS, OHIO
DEPARTMENT OF PUBLIC SERVICE
DIVISION OF DESIGN AND CONSTRUCTION

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM (CTSS) PHASE C

FRA-COLUMBUS TRAFFIC SIGNAL SYSTEM-PHASE C

VOLUME 3 OF 3



LOCATION MAP

– PROJECT AREA

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

SCALE IN MILES

0 2 4 8

STUDY AREA
SEE SHEET 2 OF 911

VOL. 1 – INTERCONNECT SHEETS 1 TO 262
VOL. 2 – INTERCONNECT SHEETS 263 TO 596
VOL. 3 – COMMUNICATIONS SHEETS 597 TO 911

INDEX OF VOLUME 3 SHEETS

TITLE SHEET 597
COMMUNICATION LAYOUT – METRO AREA 598
LAYER 2 COMMUNICATIONS NETWORK 599-627
COMMUNICATION NOTES 628
SUBNETS MAP 629
INTERSECTION COMMUNICATION DIAGRAMS 630-859
COMMUNICATION NODE DIAGRAMS 865-911

PROJECT DESCRIPTION

THE PURPOSE OF THE CTSS PHASE PROJECTS IS TO MIGRATE THE EXISTING COLUMBUS TRAFFIC SIGNAL SYSTEM TO AN OPEN ARCHITECTURE THAT CAN SERVE CENTRAL OHIO STAKEHOLDERS WITH REGIONAL SYSTEM CONNECTIVITY AND INTEROPERABILITY. PHASE C WILL INSTALL INTERCONNECT AND EQUIPMENT UPGRADES THAT WILL CONNECT 213 SIGNALIZED INTERSECTIONS, 11 PROPOSED COMMUNICATION NODE SITES, 20 PROPOSED OR UPDATED TRAFFIC FLOW MONITOR SITES TO THE UPGRADED CTSS SOFTWARE AND NEWLY CONSTRUCTED TRAFFIC MANAGEMENT CENTER. COMMUNICATIONS NETWORK CONNECTIONS WILL BE COMPRISED OF FIBER OPTIC AND WIRELESS ETHERNET NETWORKS.

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.

CITY OF COLUMBUS APPROVALS

CITY OF COLUMBUS SIGNATURES ON THIS PLAN SIGNIFY ONLY CONCURRENCE WITH THE GENERAL PURPOSES AND GENERAL LOCATION OF THE PROJECT. ALL TECHNICAL DETAILS REMAIN THE RESPONSIBILITY OF THE ENGINEER PREPARING THE PLANS.

UTILITY LEGENDS ON PLAN SHEETS REFERENCE CITY OF COLUMBUS UTILITIES ONLY

HNTB
330 West Spring Street, Suite 310
Columbus, Ohio 43215

REV NO	REVISION DESCRIPTION	SHEET(S)	INITIAL	DATE

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

2953-E

FEDERAL PROJECT NUMBER E100(958)

CIP: 540007-100005
PID NUMBER: 14522

TITLE SHEET
VOLUME 3 OF 3

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

597
911

J:\Jobs\50806\TECHPROD\Sheets\001_CTSS_PhC_Title.dwg – 001_Title (VOL III) layout ~ last saved by: gburch 12/17/2014 03:30pm ~ printed 05/09/2017 04:14pm

CIP: 540007 - 100005
PID NUMBER: 14522

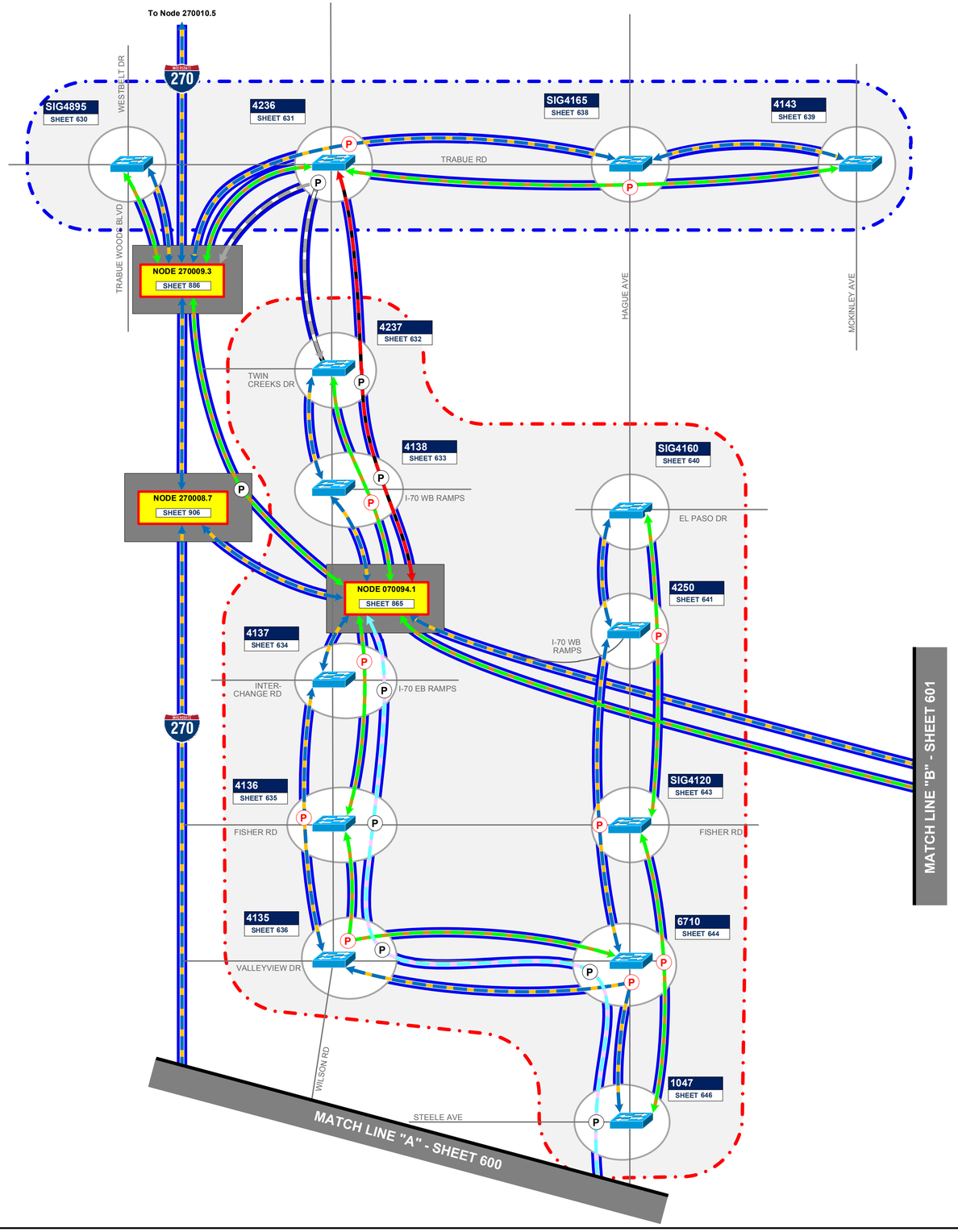
COMMUNICATIONS SHEET LAYOUT
COLUMBUS METRO AREA

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

598
911

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



NODE ID	LOCATION
NODE 070094.1	I-70 AT WILSON RD
NODE 270008.7	I-70 AT I-270 (WEST)
NODE 270009.3	I-270 AT TRABUE RD
	PHASE C PROPOSED NODE
	EXISTING CTSS NODE

COMMUNICATIONS LEGEND

Communications Node
Backhaul Fiber Link
(with Layer 3 Network Switch)

NODE 123456.7
SHEET 1234

Ethernet Switch

Cat 5/5E/6 Cable (Ethernet)

1234
Intersection Site (1234 – ID)

Fiber Optic Interconnect

Midspan Splice Enclosure (Not all are shown)

CTSS Link (Dashed lines indicate fiber colors used – Outer color indicates buffer tube color)

PTP Wireless Link
Primary
Secondary

A 10MHz Channel, Use CH 9 (4962.5MHz) & CH 10 (4967.5MHz)

B 10MHz Channel, Use CH 10 (4967.5MHz) & CH 10 (4972.5MHz)

P Fibers patched at termination panel (Tx↔Tx)

P Fibers patched at termination panel (Tx↔Rx)

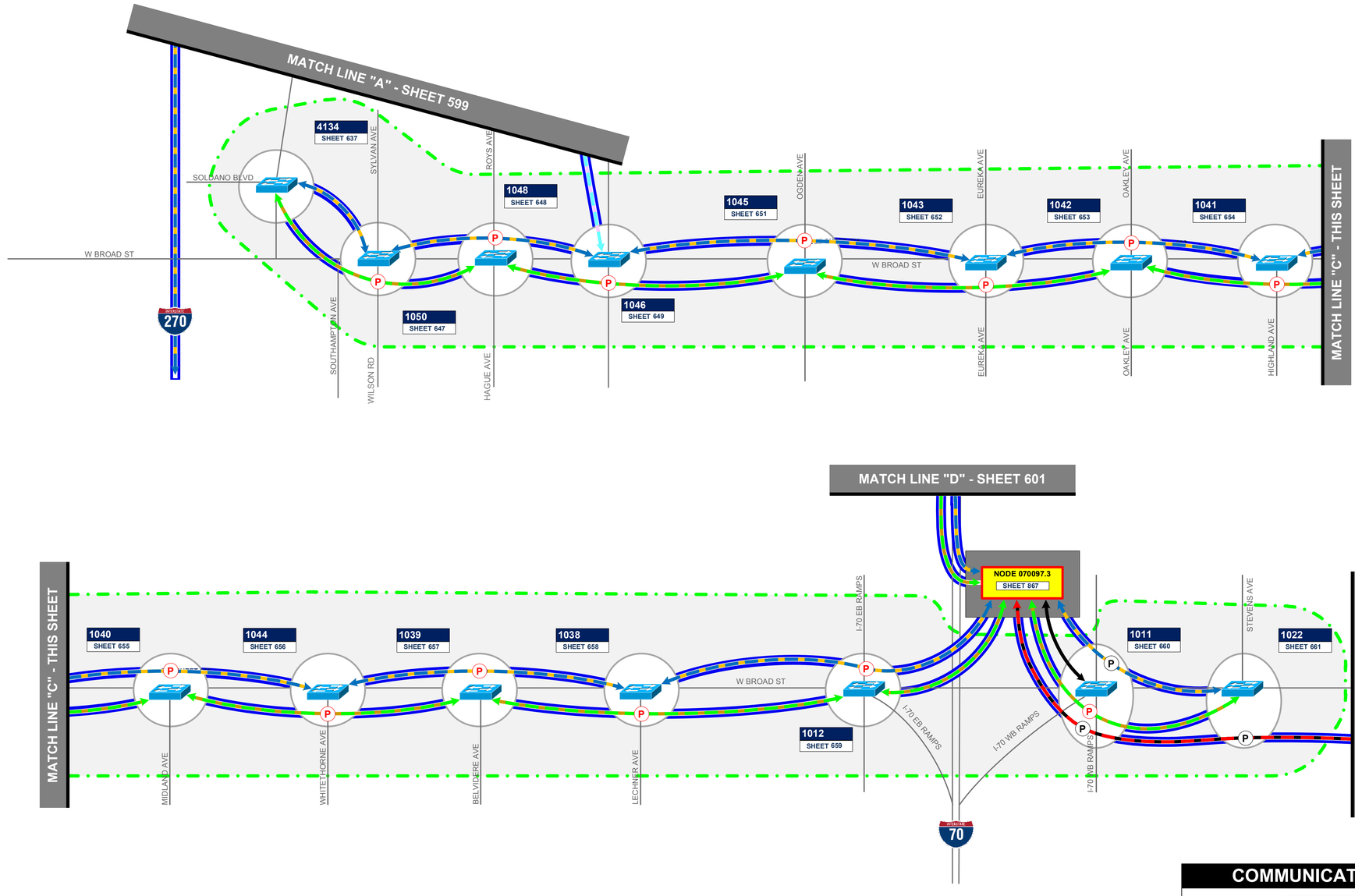
S CTSS Link (Fibers spliced at enclosure)

NOT TO SCALE

CIP: 540007 - 100005
PID NUMBER: 14522

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

COMMUNICATIONS PLAN
SHEET LAYOUT



NODE ID	LOCATION
NODE 070097.3	I-70 AT W BROAD ST
	PHASE C PROPOSED NODE
	EXISTING CTSS NODE

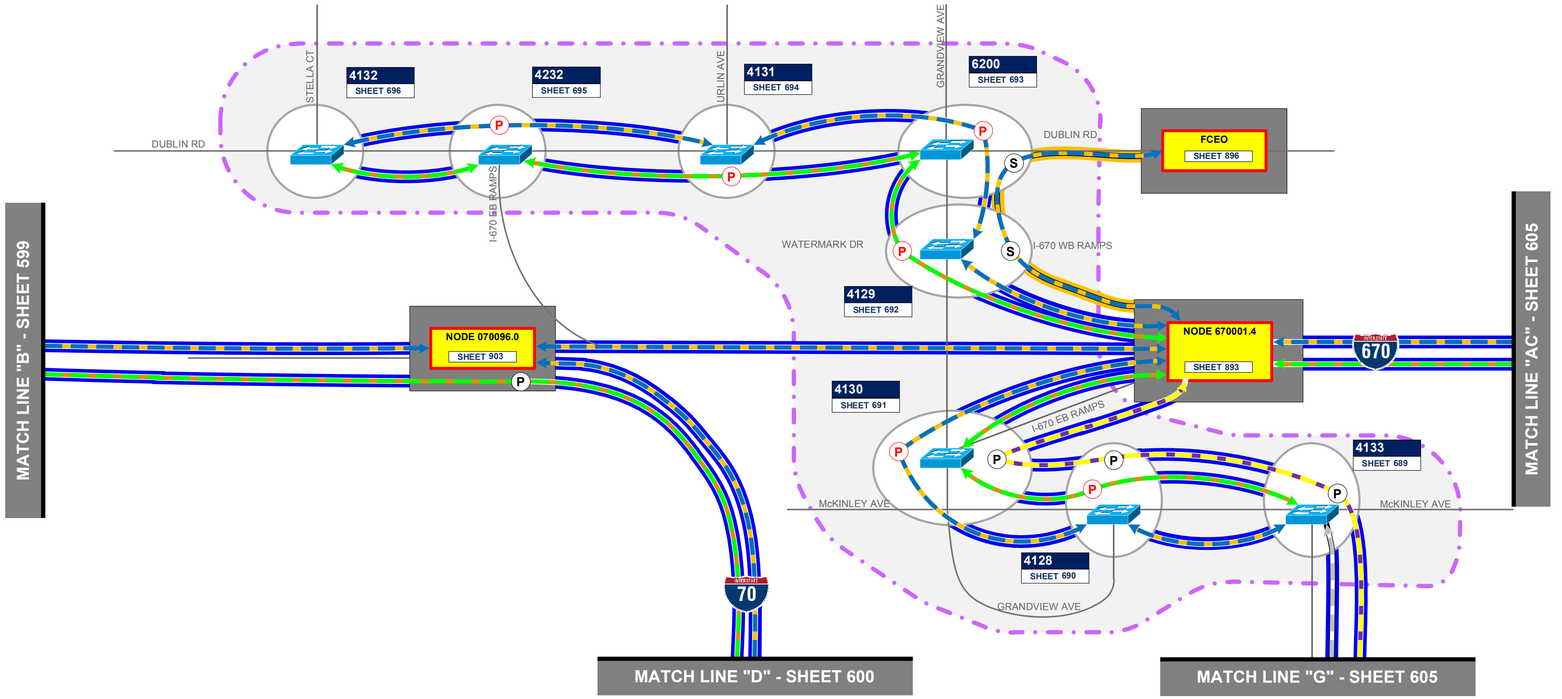
COMMUNICATIONS LEGEND

- Communications Node
- Backhaul Fiber Link (with Layer 3 Network Switch)
- NODE 123456.7 / SHEET 1234
- Ethernet Switch
- Cat 5/5E/6 Cable (Ethernet)
- 1234 — Intersection Site (1234 – ID)
- Fiber Optic Interconnect
- Midspan Splice Enclosure (Not all are shown)
- CTSS Link (Dashed lines indicate fiber colors used – Outer color indicates buffer tube color)
- PTP Wireless Link
  - Primary
  - Secondary
- (A) 10MHz Channel, Use CH 9 (4962.5MHz) & CH 10 (4967.5MHz)
- (B) 10MHz Channel, Use CH 10 (4967.5MHz) & CH 10 (4972.5MHz)
- (P) Fibers patched at termination panel (Tx↔Tx)
- (P) Fibers patched at termination panel (Tx↔Rx)
- (S) CTSS Link (Fibers spliced at enclosure)

NOT TO SCALE

CIP: 540007 - 100005
PID NUMBER: 14522

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT
COMMUNICATIONS PLAN
SHEET LAYOUT



NODE ID	LOCATION
NODE 070096.0	I-70 AT I-670
NODE 670001.4	I-670 AT GRANDVIEW AVE
FCEO	FRANKLIN CO. ENGINEER OFFICE
	PHASE C PROPOSED NODE
	EXISTING CTSS NODE

COMMUNICATIONS LEGEND

Communications Node
Backhaul Fiber Link
(with Layer 3 Network Switch)

NODE 123456.7
SHEET 1234

Ethernet Switch

Cat 5/5E/6 Cable (Ethernet)

1234
Intersection Site (1234 – ID)

Fiber Optic Interconnect

Midspan Splice Enclosure (Not all are shown)

CTSS Link (Dashed lines indicate fiber colors used – Outer color indicates buffer tube color)

PTP Wireless Link
Primary
Secondary

Fibers patched at termination panel (Tx↔Tx)

A 10MHz Channel, Use CH 9 (4962.5MHz) & CH 10 (4967.5MHz)

B 10MHz Channel, Use CH 10 (4967.5MHz) & CH 10 (4972.5MHz)

Fibers patched at termination panel (Tx↔Rx)

CTSS Link (Fibers spliced at enclosure)

NOT TO SCALE

CIP: 540007 - 100005
PID NUMBER: 14522

COMMUNICATIONS PLAN
SHEET LAYOUT

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

601
911

NODE ID	LOCATION
NODE 270004.5	I-270 AT GEORGESVILLE RD
	PHASE C PROPOSED NODE
	EXISTING CTSS NODE

COMMUNICATIONS LEGEND

Communications Node
Backhaul Fiber Link
(with Layer 3 Network Switch)

NODE 123456.7
SHEET 1234

Ethernet Switch
Cat 5/5E/6 Cable (Ethernet)

1234
Intersection Site (1234 – ID)

Fiber Optic Interconnect
Midspan Splice Enclosure (Not all are shown)
CTSS Link (Dashed lines indicate fiber colors used – Outer color indicates buffer tube color)

PTP Wireless Link
Primary
Secondary

A 10MHz Channel, Use CH 9 (4962.5MHz) & CH 10 (4967.5MHz)
B 10MHz Channel, Use CH 10 (4967.5MHz) & CH 10 (4972.5MHz)

P Fibers patched at termination panel (Tx↔Tx)
P Fibers patched at termination panel (Tx↔Rx)
S CTSS Link (Fibers spliced at enclosure)

MATCH LINE "K" - THIS SHEET

1052
CLIME RD (NORTH)
MEIJER
1053
CLIME RD
1103
HALL RD
1101
DURROW DR
PARKWICK DR
1099
To Node 270008.7 SHEET 906
I-270
NODE 270004.5 SHEET 883
MATCH LINE "T" - SHEET 604
I-270 SB OFF-RAMP
AUTO MALL DR
BOLTON FIELD ST
1100
1096
1105
1107
HOLT RUN DR
HOLT RD
ALKIRE RD
1104

BROAD ST
SIG4145
SHOPPERS LANE N
SIG4146
SHOPPERS LANE S
SIG4140
LINCOLN PARK CT
GEORGESVILLE RD
GEOIND
INDUSTRIAL MILE RD
1032 SHEET 698
1110 SHEET 697
1031 SHEET 700
1030 SHEET 701
1028 SHEET 705
1034 SHEET 697
SULLIVANT AVE
1035
ATLANTA DR
1036
SULLIVANT AVE (SOUTH)
1037 SHEET 702
SIG4025 SHEET 703
1092 SHEET 704
DEMOREST RD
MATCH LINE "J" - SHEET 603
MATCH LINE "K" - THIS SHEET

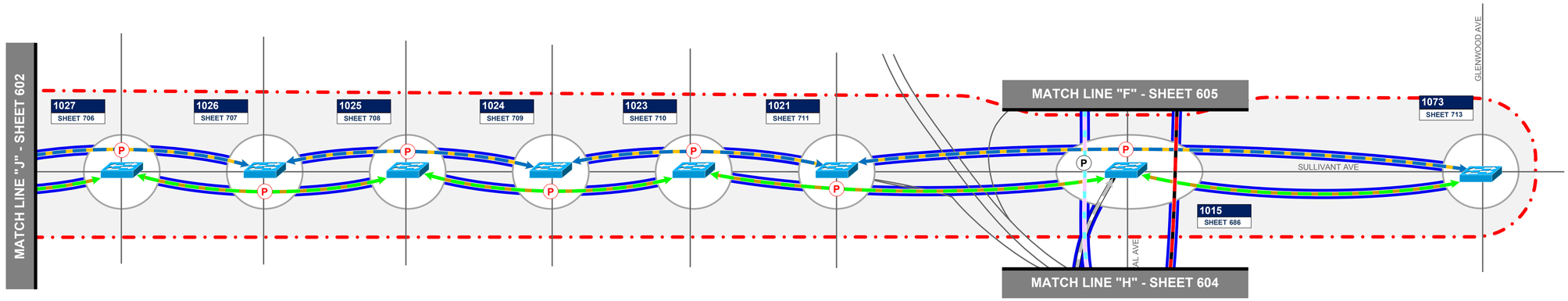
NOT TO SCALE

CIP: 540007 - 100005
PID NUMBER: 14522

COMMUNICATIONS PLAN
SHEET LAYOUT

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

602
911



COMMUNICATIONS LEGEND

Communications Node
Backhaul Fiber Link
(with Layer 3 Network Switch)

NODE 123456.7
SHEET 1234

Ethernet Switch

Cat 5/5E/6 Cable (Ethernet)

1234
Intersection Site (1234 – ID)

PTP Wireless Link
Primary
Secondary

A 10MHz Channel, Use CH 9 (4962.5MHz) & CH 10 (4967.5MHz)

B 10MHz Channel, Use CH 10 (4967.5MHz) & CH 10 (4972.5MHz)

Fiber Optic Interconnect

Midspan Splice Enclosure (Not all are shown)

CTSS Link (Dashed lines indicate fiber colors used – Outer color indicates buffer tube color)

P Fibers patched at termination panel (Tx↔Tx)

P Fibers patched at termination panel (Tx↔Rx)

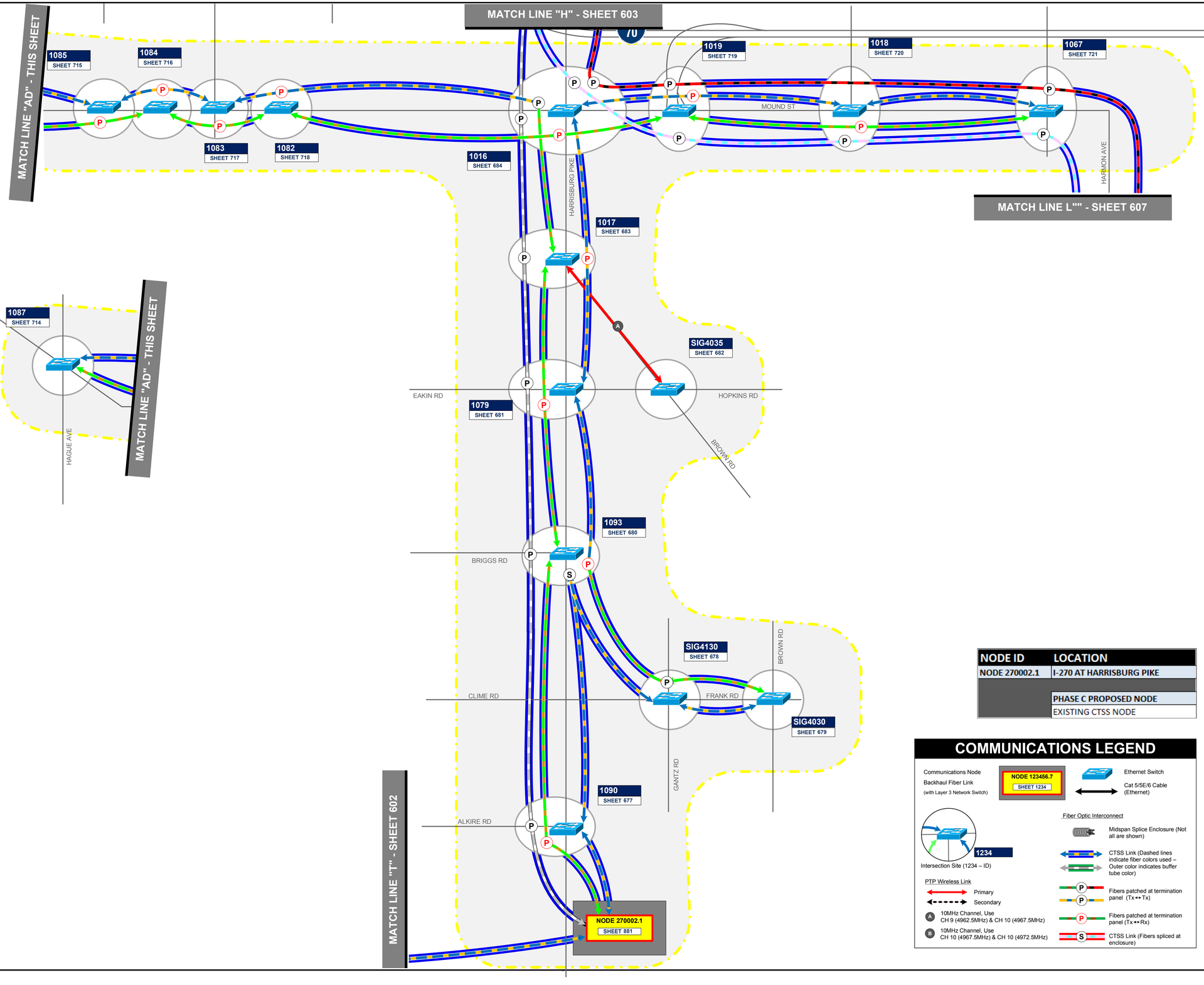
S CTSS Link (Fibers spliced at enclosure)

NOT TO SCALE

CIP: 540007 - 100005
PID NUMBER: 14522

COMMUNICATIONS PLAN
SHEET LAYOUT

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT



NODE ID	LOCATION
NODE 270002.1	I-270 AT HARRISBURG PIKE
	PHASE C PROPOSED NODE
	EXISTING CTSS NODE

COMMUNICATIONS LEGEND

Communications Node
Backhaul Fiber Link
(with Layer 3 Network Switch)

NODE 123456.7
SHEET 1234

Ethernet Switch

Cat 5/5E/6 Cable (Ethernet)

1234
Intersection Site (1234 – ID)

Fiber Optic Interconnect

Midspan Splice Enclosure (Not all are shown)

CTSS Link (Dashed lines indicate fiber colors used – Outer color indicates buffer tube color)

PTP Wireless Link

Primary

Secondary

A 10MHz Channel, Use CH 9 (4962.5MHz) & CH 10 (4967.5MHz)

B 10MHz Channel, Use CH 10 (4967.5MHz) & CH 10 (4972.5MHz)

Fibers patched at termination panel (Tx↔Tx)

Fibers patched at termination panel (Tx↔Rx)

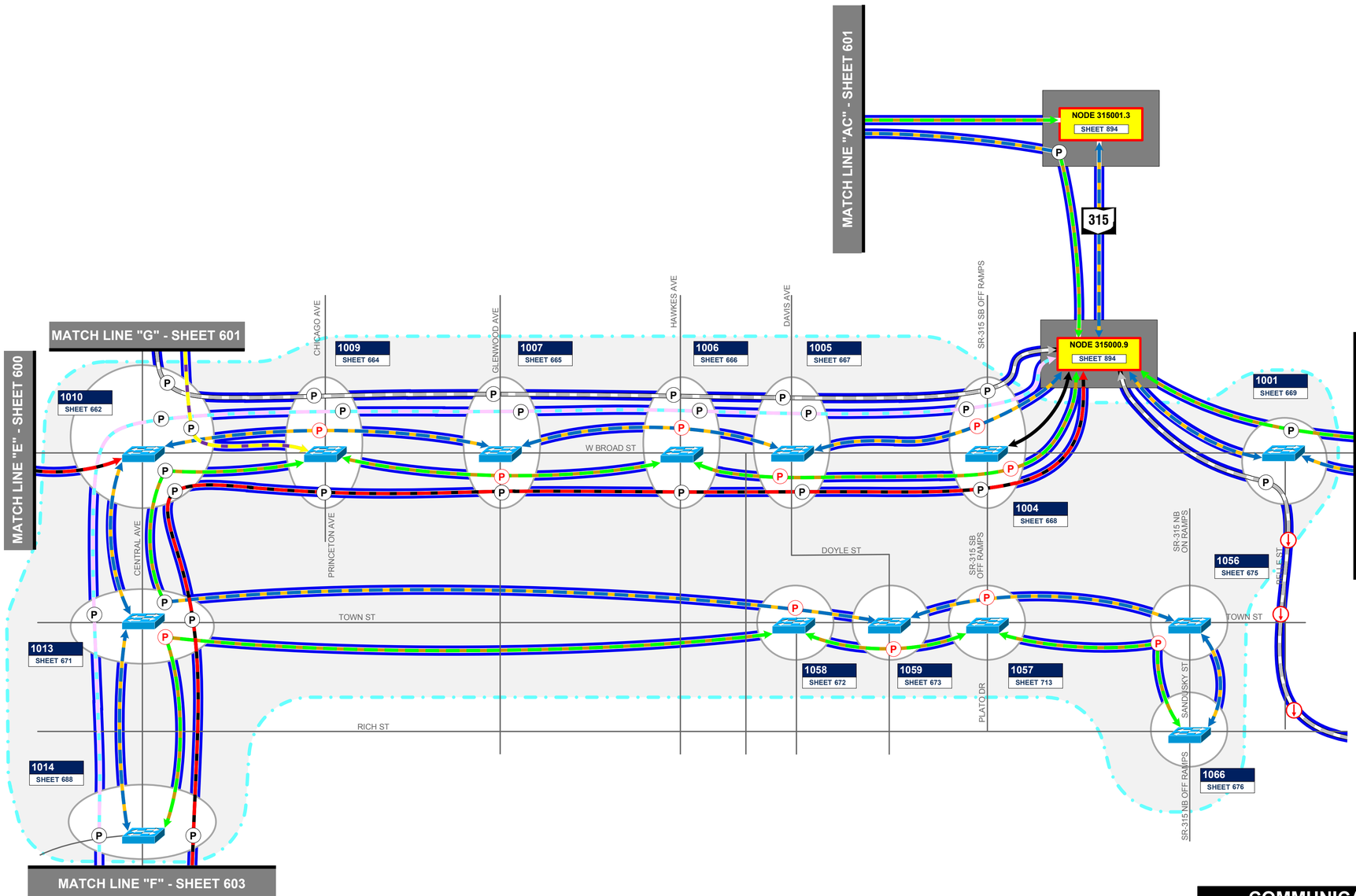
CTSS Link (Fibers spliced at enclosure)

NOT TO SCALE

CIP: 540007 - 100005
PID NUMBER: 14522

COMMUNICATIONS PLAN
SHEET LAYOUT

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT



NODE ID	LOCATION
NODE 315000.9	SR-315 AT W BROAD ST
NODE 315001.3	SR-315 AT I-670
	PHASE C PROPOSED NODE
	EXISTING CTSS NODE

COMMUNICATIONS LEGEND

Communications Node
Backhaul Fiber Link
(with Layer 3 Network Switch)

NODE 123456.7
SHEET 1234

Ethernet Switch

Cat 5/5E/6 Cable (Ethernet)

1234
Intersection Site (1234 – ID)

PTP Wireless Link
Primary
Secondary

A 10MHz Channel, Use CH 9 (4962.5MHz) & CH 10 (4967.5MHz)

B 10MHz Channel, Use CH 10 (4967.5MHz) & CH 10 (4972.5MHz)

Fiber Optic Interconnect

Midspan Splice Enclosure (Not all are shown)

CTSS Link (Dashed lines indicate fiber colors used – Outer color indicates buffer tube color)

P Fibers patched at termination panel (Tx↔Tx)

P Fibers patched at termination panel (Tx↔Rx)

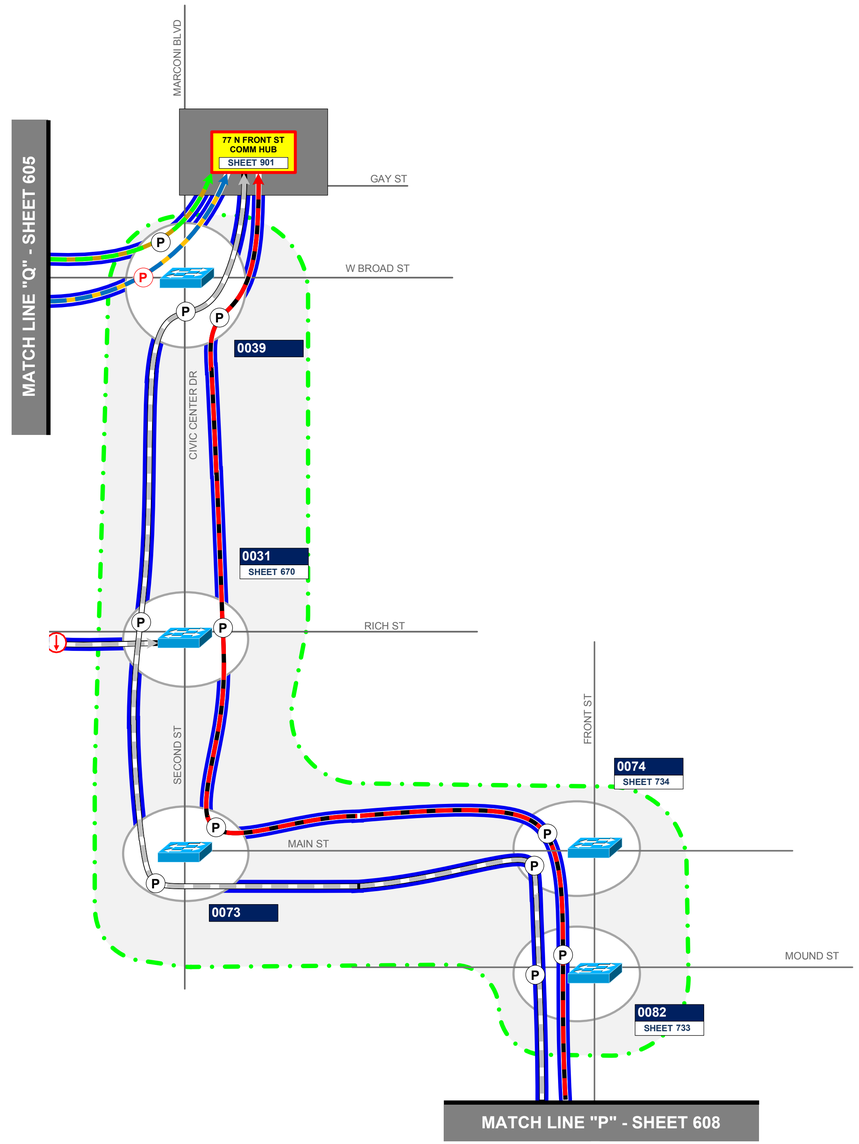
S CTSS Link (Fibers spliced at enclosure)

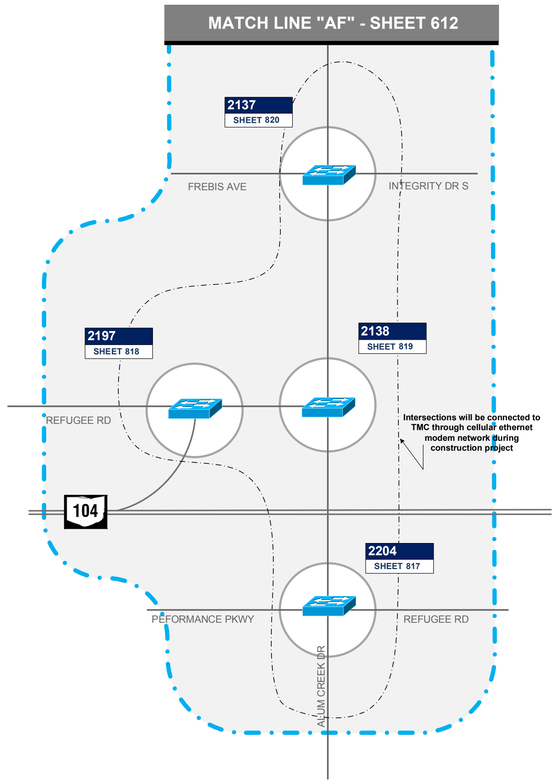
NOT TO SCALE

CIP: 540007 - 100005
PID NUMBER: 14522

COMMUNICATIONS PLAN
SHEET LAYOUT

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT





NODE ID	LOCATION
COMM HUB	77 N FRONT ST COMM CENTER
	PHASE C PROPOSED NODE
	EXISTING CTSS NODE

COMMUNICATIONS LEGEND

Communications Node
Backhaul Fiber Link
(with Layer 3 Network Switch)

NODE 123456.7
SHEET 1234

Ethernet Switch

Cat 5/5E/6 Cable (Ethernet)

1234
Intersection Site (1234 – ID)

Fiber Optic Interconnect

Midspan Splice Enclosure (Not all are shown)

CTSS Link (Dashed lines indicate fiber colors used – Outer color indicates buffer tube color)

PTP Wireless Link
Primary
Secondary

Fibers patched at termination panel (Tx↔Tx)

A 10MHz Channel, Use CH 9 (4962.5MHz) & CH 10 (4967.5MHz)

B 10MHz Channel, Use CH 10 (4967.5MHz) & CH 10 (4972.5MHz)

Fibers patched at termination panel (Tx↔Rx)

S CTSS Link (Fibers spliced at enclosure)

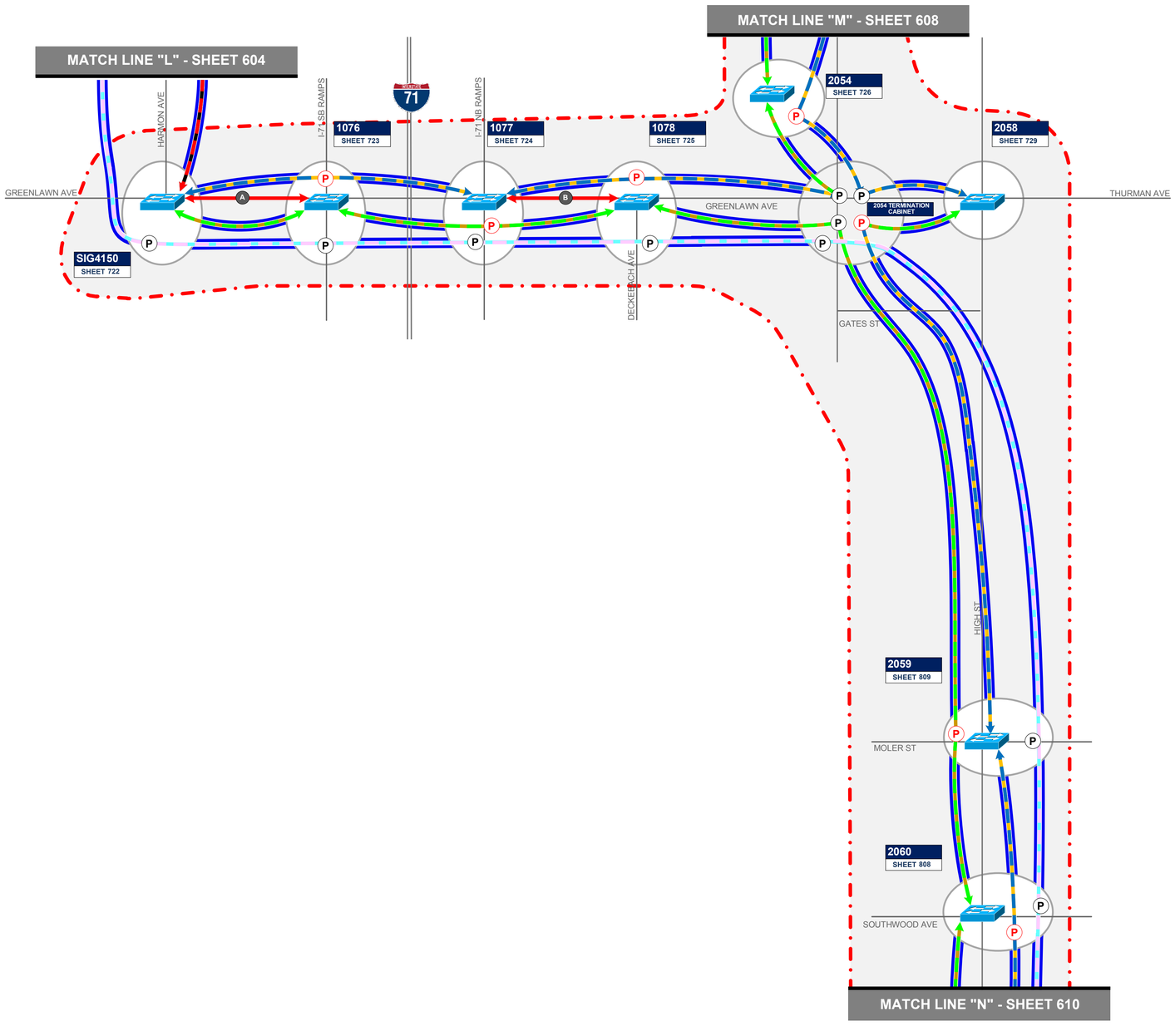
NOT TO SCALE

CIP: 540007 - 100005
PID NUMBER: 14522

COMMUNICATIONS PLAN
SHEET LAYOUT

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

606
911



COMMUNICATIONS LEGEND

- Communications Node
- Backhaul Fiber Link (with Layer 3 Network Switch)
- NODE 123456.7 / SHEET 1234
- Ethernet Switch
- Cat 5/5E/6 Cable (Ethernet)
- 1234 — Intersection Site (1234 – ID)
- Fiber Optic Interconnect
- Midspan Splice Enclosure (Not all are shown)
- CTSS Link (Dashed lines indicate fiber colors used – Outer color indicates buffer tube color)
- PTP Wireless Link
  - Primary
  - Secondary
- A — 10MHz Channel, Use CH 9 (4962.5MHz) & CH 10 (4967.5MHz)
- B — 10MHz Channel, Use CH 10 (4967.5MHz) & CH 10 (4972.5MHz)
- P — Fibers patched at termination panel (Tx↔Tx)
- P — Fibers patched at termination panel (Tx↔Rx)
- S — CTSS Link (Fibers spliced at enclosure)

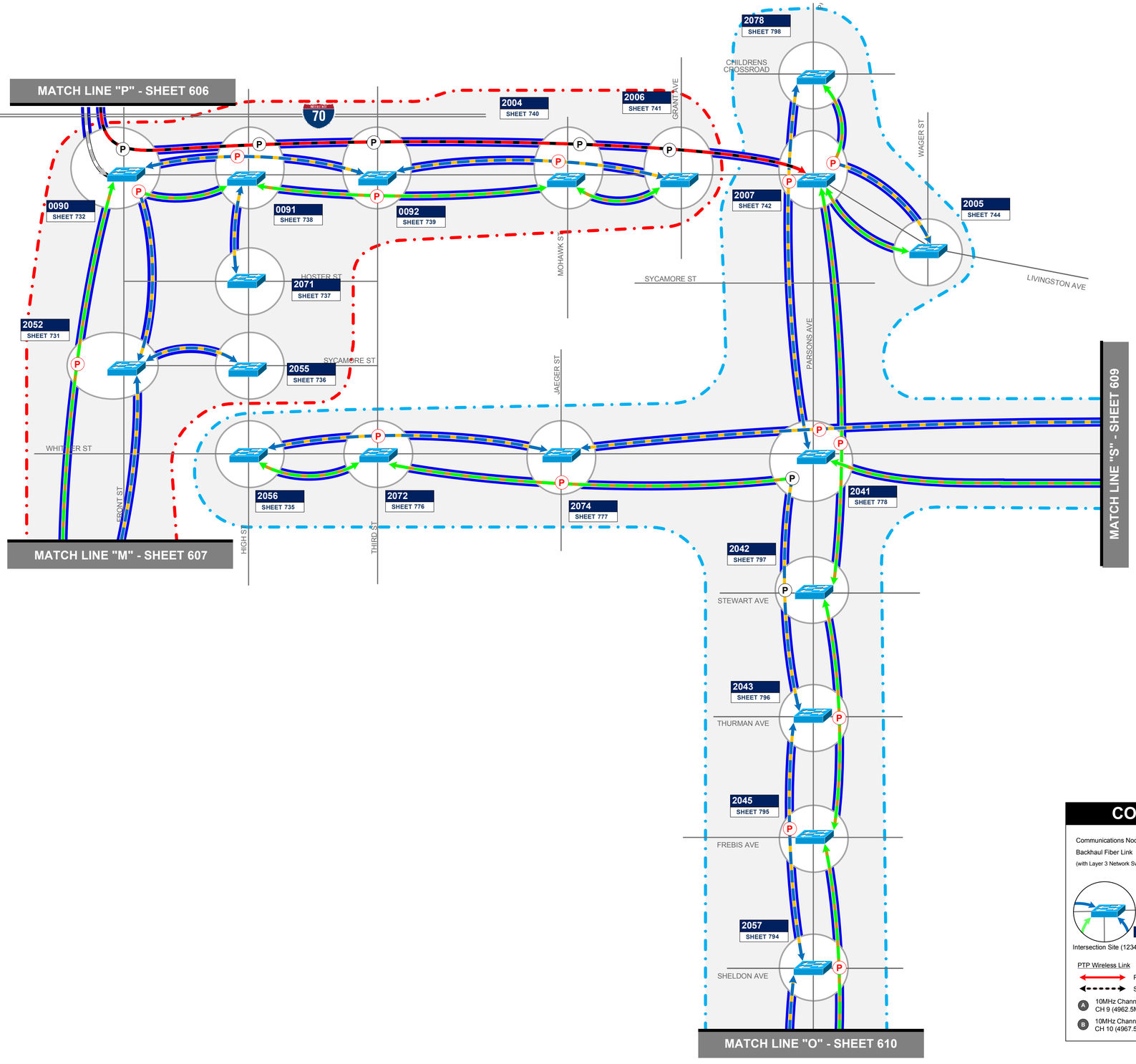
NOT TO SCALE

CIP: 540007 - 100005
PID NUMBER: 14522

COMMUNICATIONS PLAN
SHEET LAYOUT

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

607
911



COMMUNICATIONS LEGEND

- Communications Node
- Backhaul Fiber Link (with Layer 3 Network Switch)
- NODE 123456.7 — SHEET 1234
- Ethernet Switch
- Cat 5/5E/6 Cable (Ethernet)
- 1234 — Intersection Site (1234 – ID)
- Fiber Optic Interconnect
- Midspan Splice Enclosure (Not all are shown)
- CTSS Link (Dashed lines indicate fiber colors used – Outer color indicates buffer tube color)
- PTP Wireless Link
  - Primary
  - Secondary
- A — 10MHz Channel, Use CH 9 (4962.5MHz) & CH 10 (4967.5MHz)
- B — 10MHz Channel, Use CH 10 (4967.5MHz) & CH 10 (4972.5MHz)
- P — Fibers patched at termination panel (Tx↔Tx)
- P — Fibers patched at termination panel (Tx↔Rx)
- S — CTSS Link (Fibers spliced at enclosure)

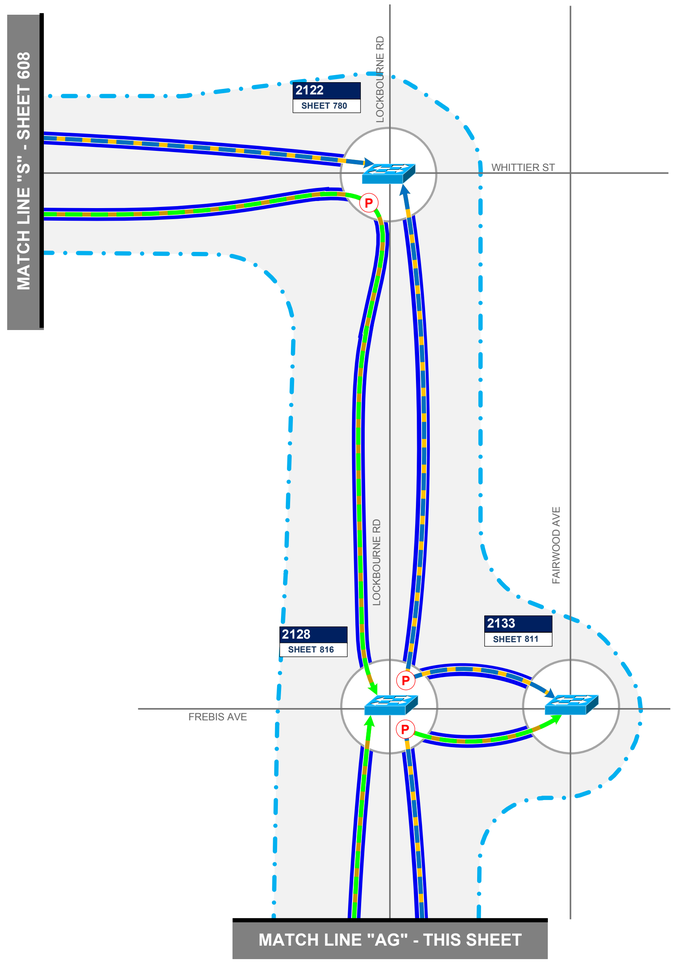
NOT TO SCALE

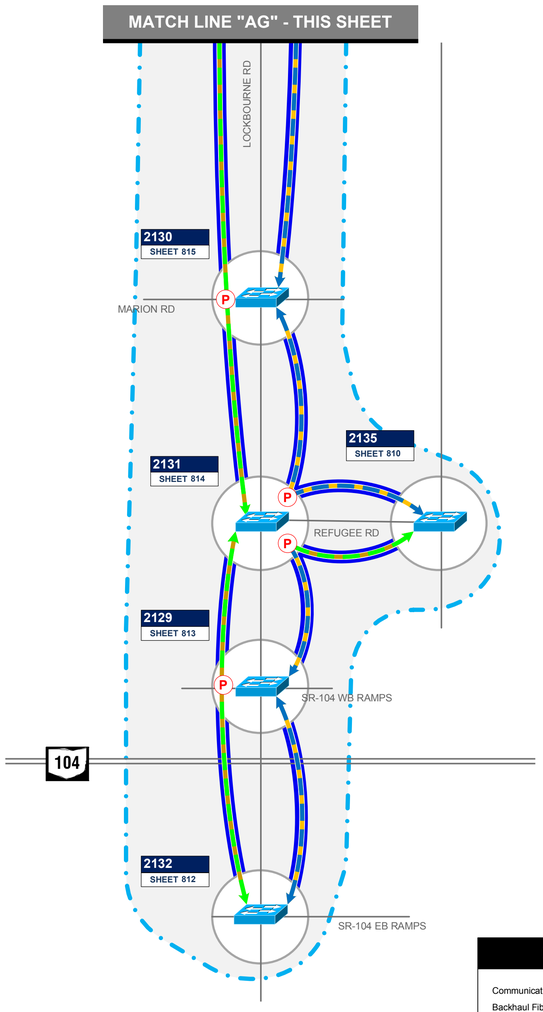
CIP: 540007 - 100005
PID NUMBER: 14522

COMMUNICATIONS PLAN
SHEET LAYOUT

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

608
911





COMMUNICATIONS LEGEND

Communications Node
Backhaul Fiber Link
(with Layer 3 Network Switch)

NODE 123456.7
SHEET 1234

Ethernet Switch
Cat 5/5E/6 Cable (Ethernet)

1234
Intersection Site (1234 – ID)

PTP Wireless Link
Primary
Secondary

A 10MHz Channel, Use CH 9 (4962.5MHz) & CH 10 (4967.5MHz)
B 10MHz Channel, Use CH 10 (4967.5MHz) & CH 10 (4972.5MHz)

Fiber Optic Interconnect
Midspan Splice Enclosure (Not all are shown)
CTSS Link (Dashed lines indicate fiber colors used – Outer color indicates buffer tube color)
Fibers patched at termination panel (Tx↔Tx)
Fibers patched at termination panel (Tx↔Rx)
CTSS Link (Fibers spliced at enclosure)

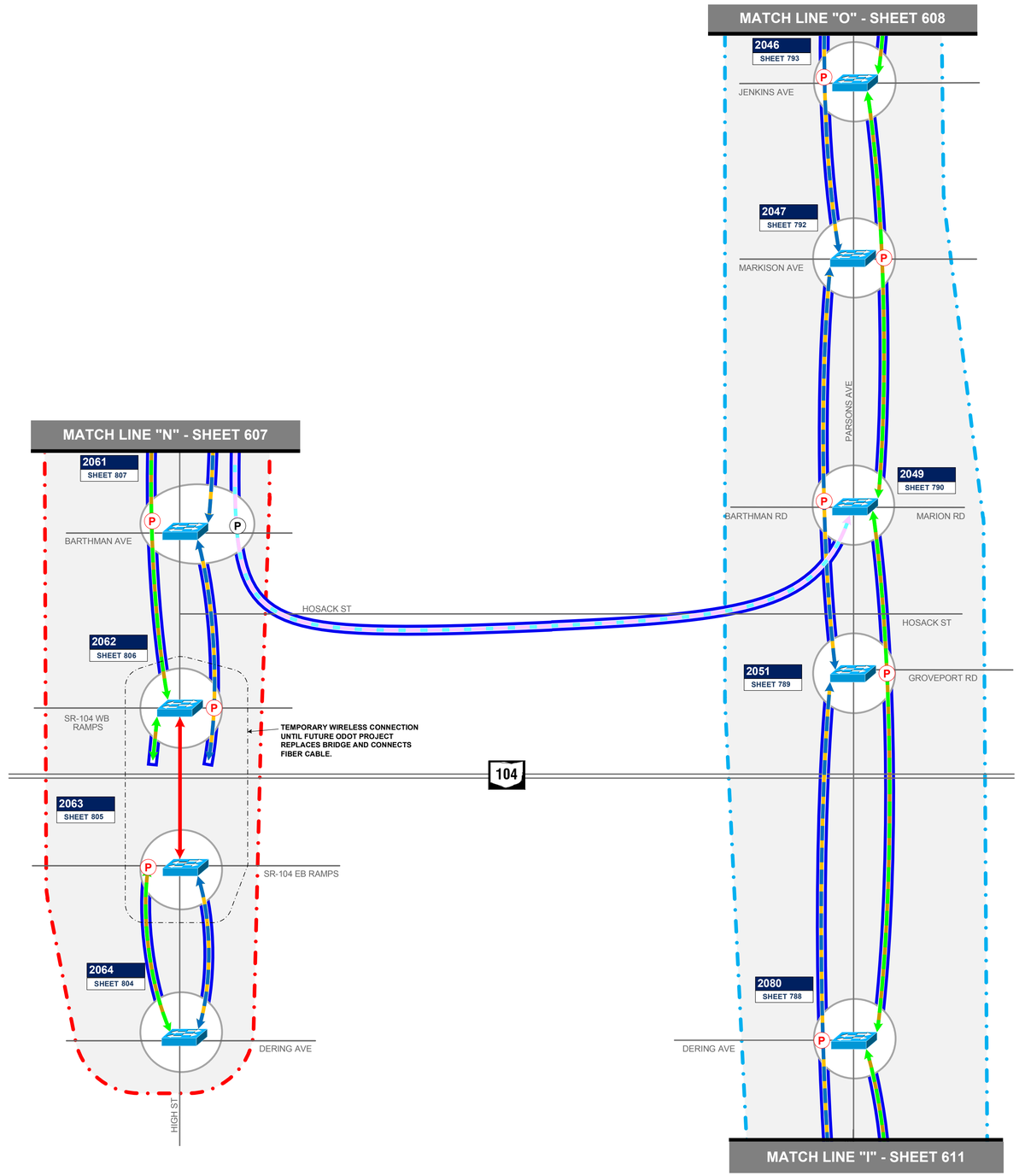
NOT TO SCALE

CIP: 540007 - 100005
PID NUMBER: 14522

COMMUNICATIONS PLAN
SHEET LAYOUT

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

609
911



COMMUNICATIONS LEGEND

Communications Node
Backhaul Fiber Link
(with Layer 3 Network Switch)

NODE 123456.7
SHEET 1234

Ethernet Switch

Cat 5/5E/6 Cable (Ethernet)

1234
Intersection Site (1234 – ID)

Fiber Optic Interconnect

Midspan Splice Enclosure (Not all are shown)

CTSS Link (Dashed lines indicate fiber colors used – Outer color indicates buffer tube color)

PTP Wireless Link

Primary

Secondary

A 10MHz Channel, Use CH 9 (4962.5MHz) & CH 10 (4967.5MHz)

B 10MHz Channel, Use CH 10 (4967.5MHz) & CH 10 (4972.5MHz)

P Fibers patched at termination panel (Tx↔Tx)

P Fibers patched at termination panel (Tx↔Rx)

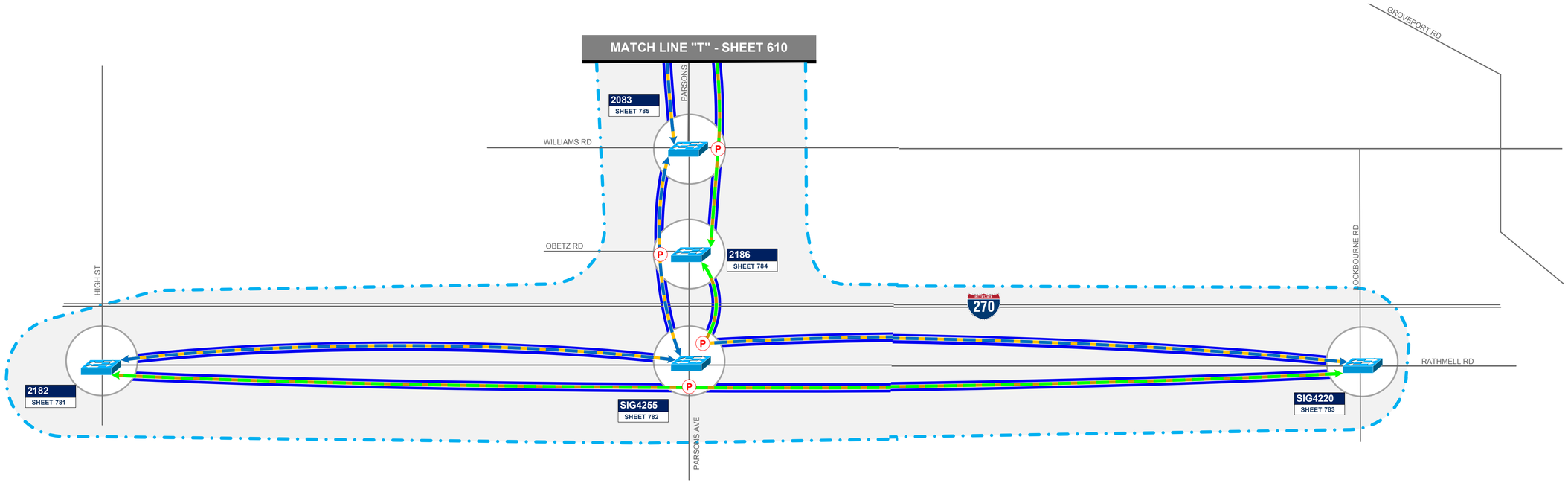
S CTSS Link (Fibers spliced at enclosure)

NOT TO SCALE

CIP: 540007 - 100005
PID NUMBER: 14522

COMMUNICATIONS PLAN
SHEET LAYOUT

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT



COMMUNICATIONS LEGEND

Communications Node
Backhaul Fiber Link
(with Layer 3 Network Switch)

NODE 123456.7
SHEET 1234

Ethernet Switch

Cat 5/5E/6 Cable (Ethernet)

1234
Intersection Site (1234 – ID)

Fiber Optic Interconnect

Midspan Splice Enclosure (Not all are shown)

CTSS Link (Dashed lines indicate fiber colors used – Outer color indicates buffer tube color)

PTP Wireless Link

Primary

Secondary

A 10MHz Channel, Use CH 9 (4962.5MHz) & CH 10 (4967.5MHz)

B 10MHz Channel, Use CH 10 (4967.5MHz) & CH 10 (4972.5MHz)

P Fibers patched at termination panel (Tx↔Tx)

P Fibers patched at termination panel (Tx↔Rx)

S CTSS Link (Fibers spliced at enclosure)

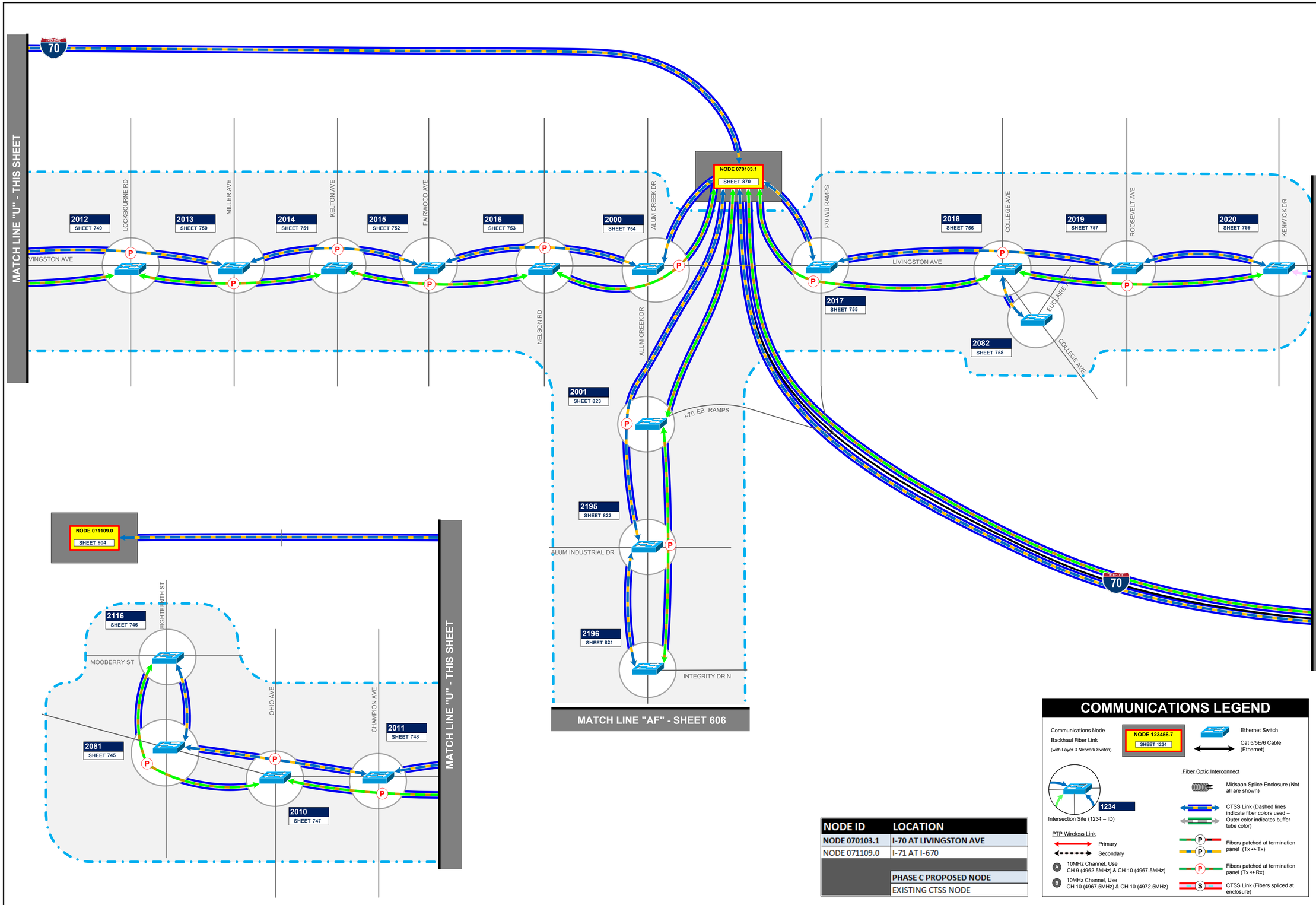
NOT TO SCALE

CIP: 540007 - 100005
PID NUMBER: 14522

COMMUNICATIONS PLAN
SHEET LAYOUT

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

611
911



NODE ID	LOCATION
NODE 070103.1	I-70 AT LIVINGSTON AVE
NODE 071109.0	I-71 AT I-670
	PHASE C PROPOSED NODE
	EXISTING CTSS NODE

COMMUNICATIONS LEGEND

- Communications Node
- Backhaul Fiber Link (with Layer 3 Network Switch)
- NODE 123456.7 / SHEET 1234
- Ethernet Switch
- Cat 5/5E/6 Cable (Ethernet)
- 1234 — Intersection Site (1234 – ID)
- Fiber Optic Interconnect
- Midspan Splice Enclosure (Not all are shown)
- CTSS Link (Dashed lines indicate fiber colors used – Outer color indicates buffer tube color)
- PTP Wireless Link
- Primary
- Secondary
- A — 10MHz Channel, Use CH 9 (4962.5MHz) & CH 10 (4967.5MHz)
- B — 10MHz Channel, Use CH 10 (4967.5MHz) & CH 10 (4972.5MHz)
- P — Fibers patched at termination panel (Tx↔Tx)
- P — Fibers patched at termination panel (Tx↔Rx)
- S — CTSS Link (Fibers spliced at enclosure)

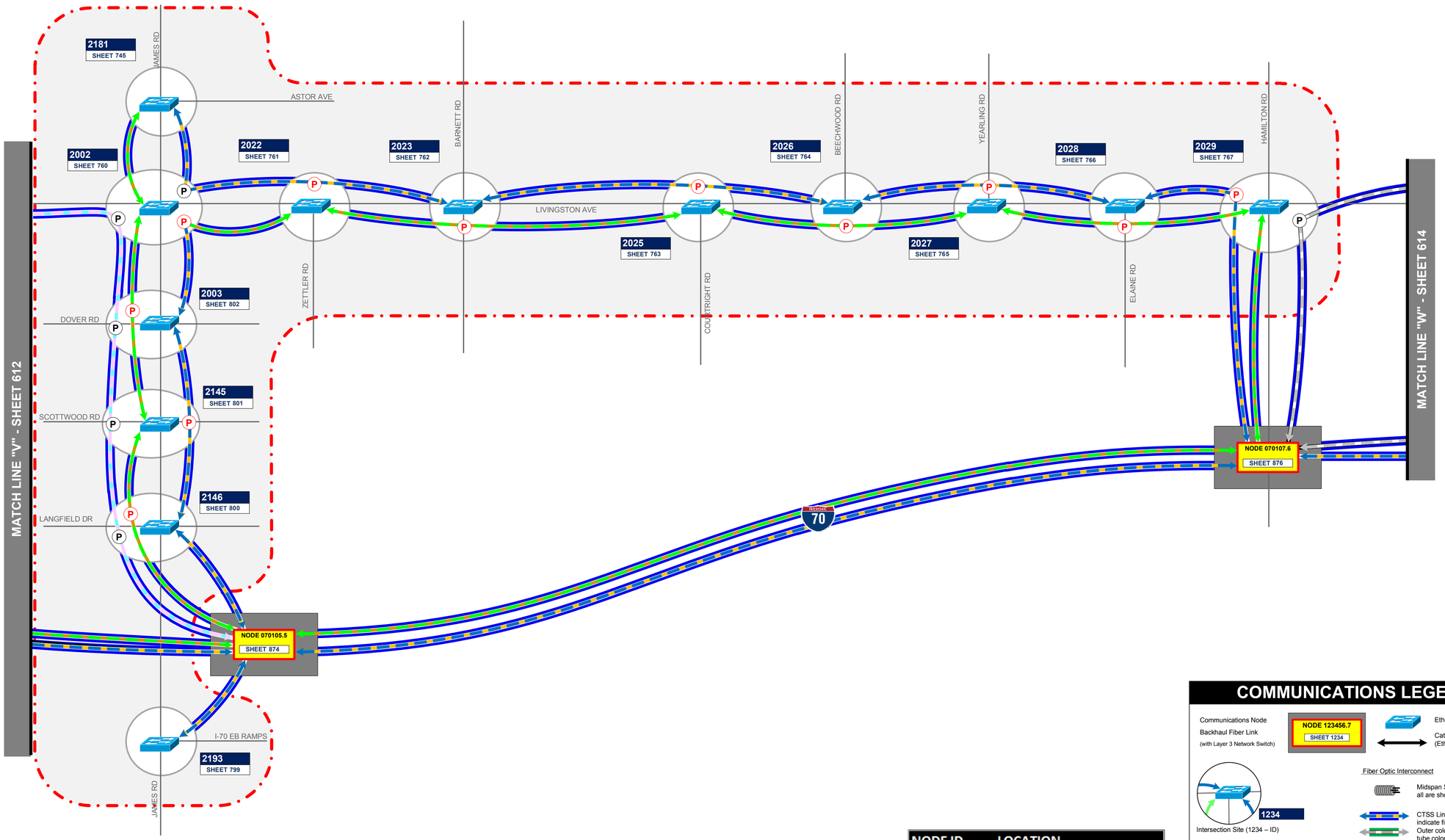
NOT TO SCALE

CIP: 540007 - 100005
PID NUMBER: 14522

COMMUNICATIONS PLAN
SHEET LAYOUT

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

612
911



NODE ID	LOCATION
NODE 070105.5	I-70 AT JAMES RD
NODE 071107.6	I-70 AT HAMILTON RD
	PHASE C PROPOSED NODE
	EXISTING CTSS NODE

COMMUNICATIONS LEGEND

Communications Node
Backhaul Fiber Link
(with Layer 3 Network Switch)

NODE 123456.7
SHEET 1234

Ethernet Switch

Cat 5/5E/6 Cable (Ethernet)

1234
Intersection Site (1234 – ID)

PTP Wireless Link
Primary
Secondary

A 10MHz Channel, Use CH 9 (4962.5MHz) & CH 10 (4967.5MHz)

B 10MHz Channel, Use CH 10 (4967.5MHz) & CH 10 (4972.5MHz)

Fiber Optic Interconnect

Midspan Splice Enclosure (Not all are shown)

CTSS Link (Dashed lines indicate fiber colors used – Outer color indicates buffer tube color)

P Fibers patched at termination panel (Tx↔Tx)

P Fibers patched at termination panel (Tx↔Rx)

S CTSS Link (Fibers spliced at enclosure)

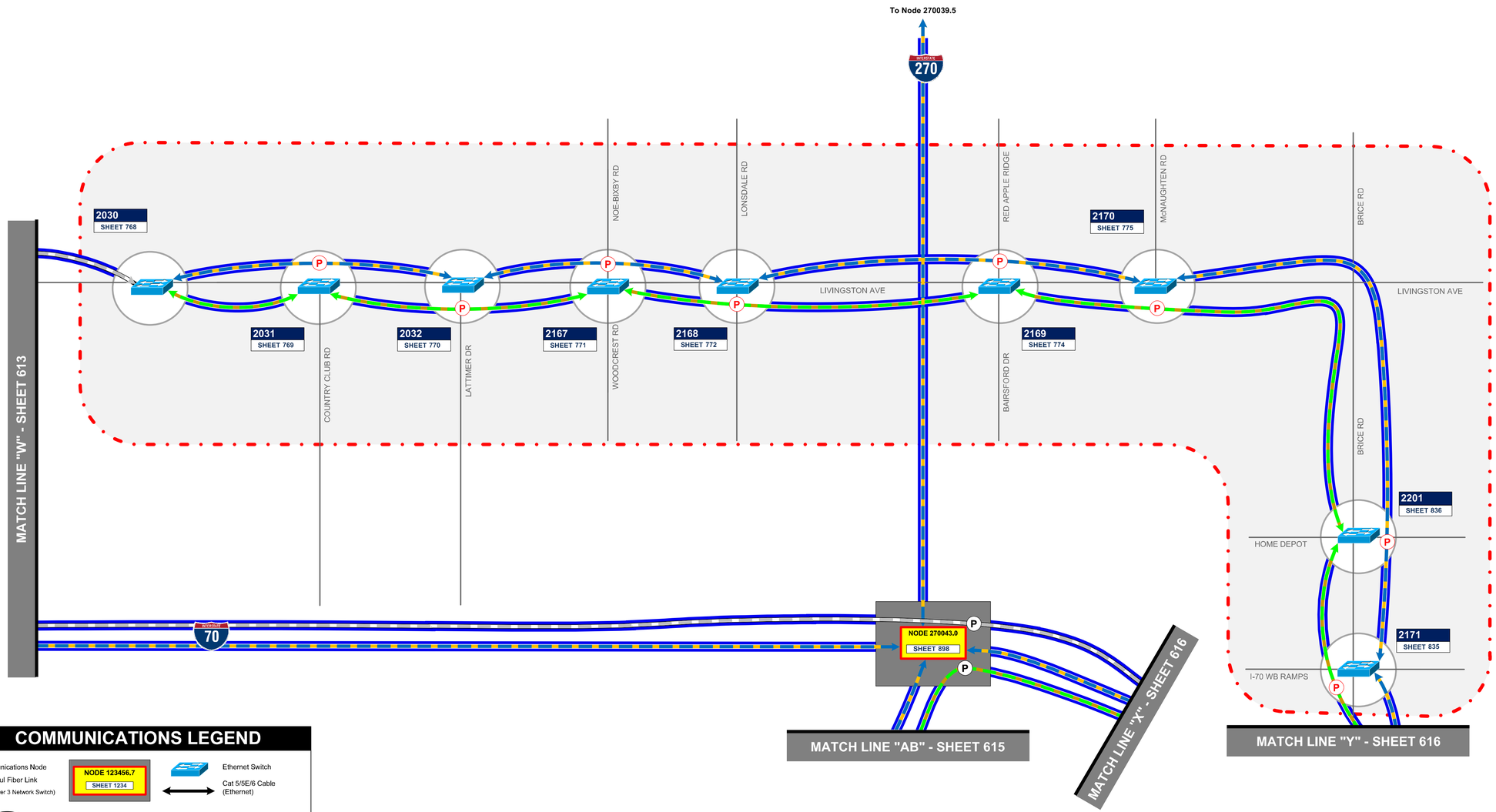
NOT TO SCALE

CIP: 540007 - 100005
PID NUMBER: 14522

COMMUNICATIONS PLAN
SHEET LAYOUT

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

613
911



COMMUNICATIONS LEGEND

Communications Node
Backhaul Fiber Link
(with Layer 3 Network Switch)

NODE 123456.7
SHEET 1234

Ethernet Switch

Cat 5/5E/6 Cable (Ethernet)

1234
Intersection Site (1234 – ID)

PTP Wireless Link
Primary
Secondary

A 10MHz Channel, Use CH 9 (4962.5MHz) & CH 10 (4967.5MHz)

B 10MHz Channel, Use CH 10 (4967.5MHz) & CH 10 (4972.5MHz)

Fiber Optic Interconnect

Midspan Splice Enclosure (Not all are shown)

CTSS Link (Dashed lines indicate fiber colors used – Outer color indicates buffer tube color)

P P Fibers patched at termination panel (Tx↔Tx)

P Fibers patched at termination panel (Tx↔Rx)

S CTSS Link (Fibers spliced at enclosure)

NODE ID	LOCATION
NODE 270043.0	I-70 AT I-270 (EAST)
	PHASE C PROPOSED NODE
	EXISTING CTSS NODE

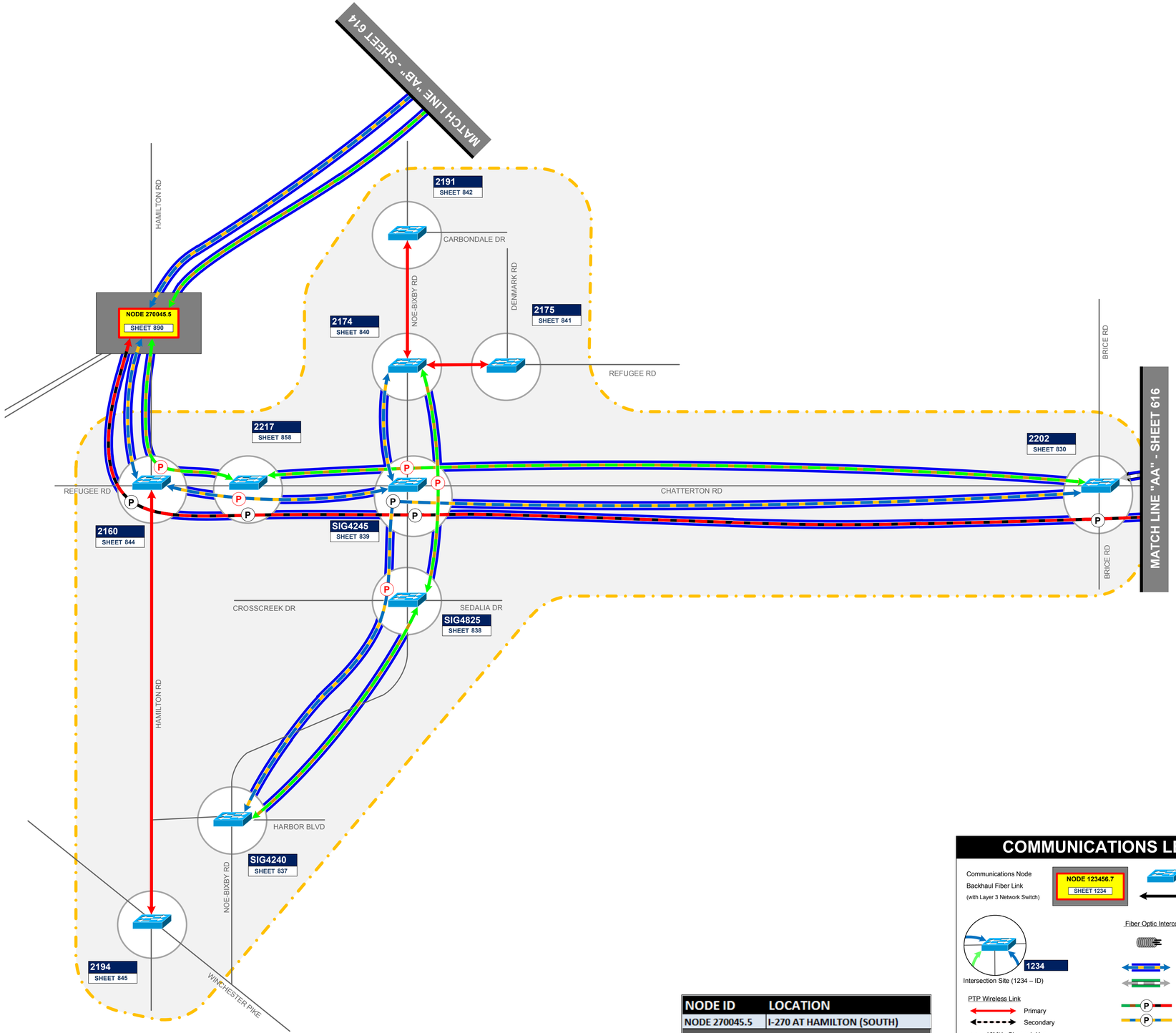
NOT TO SCALE

CIP: 540007 - 100005
PID NUMBER: 14522

COMMUNICATIONS PLAN
SHEET LAYOUT

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

614
911



NODE ID	LOCATION
NODE 270045.5	I-270 AT HAMILTON (SOUTH)
	PHASE C PROPOSED NODE
	EXISTING CTSS NODE

COMMUNICATIONS LEGEND

Communications Node
Backhaul Fiber Link
(with Layer 3 Network Switch)

NODE 123456.7
SHEET 1234

Ethernet Switch

Cat 5/5E/6 Cable (Ethernet)

1234
Intersection Site (1234 – ID)

PTP Wireless Link
- Primary
- Secondary

A — 10MHz Channel, Use CH 9 (4962.5MHz) & CH 10 (4967.5MHz)

B — 10MHz Channel, Use CH 10 (4967.5MHz) & CH 10 (4972.5MHz)

Fiber Optic Interconnect
- Midspan Splice Enclosure (Not all are shown)
- CTSS Link (Dashed lines indicate fiber colors used – Outer color indicates buffer tube color)
- P — Fibers patched at termination panel (Tx↔Tx)
- P — Fibers patched at termination panel (Tx↔Rx)
- S — CTSS Link (Fibers spliced at enclosure)

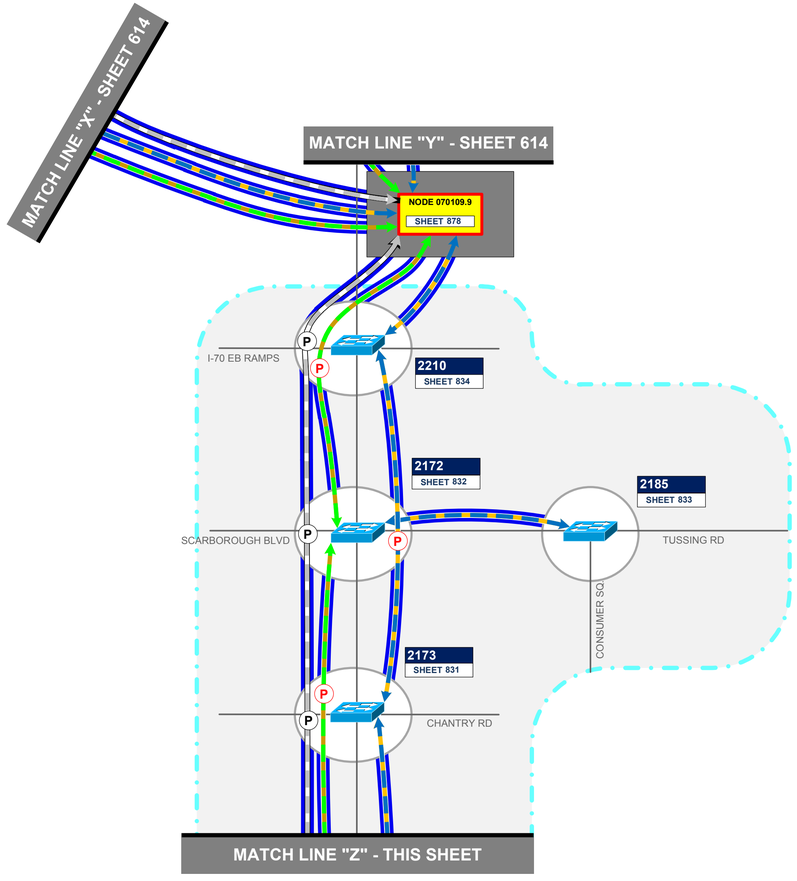
NOT TO SCALE

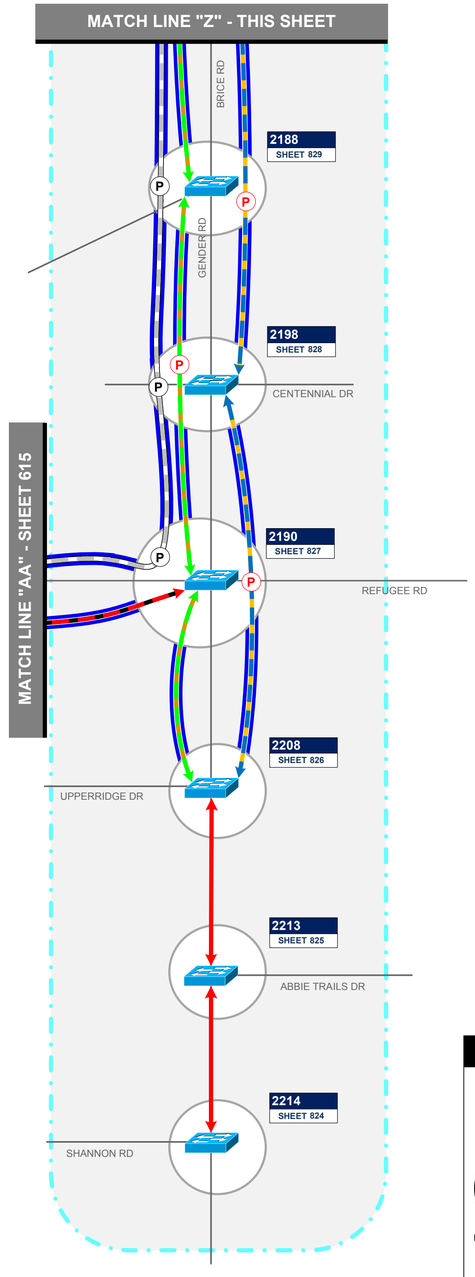
CIP: 540007 - 100005
PID NUMBER: 14522

COMMUNICATIONS PLAN
SHEET LAYOUT

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

615
911





NODE ID	LOCATION
NODE 070109.9	I-70 AT BRICE RD
	PHASE C PROPOSED NODE
	EXISTING CTSS NODE

COMMUNICATIONS LEGEND

Communications Node
Backhaul Fiber Link
(with Layer 3 Network Switch)

NODE 123456.7
SHEET 1234

Ethernet Switch

Cat 5/5E/6 Cable (Ethernet)

1234
Intersection Site (1234 – ID)

PTP Wireless Link
Primary
Secondary

A 10MHz Channel, Use CH 9 (4962.5MHz) & CH 10 (4967.5MHz)

B 10MHz Channel, Use CH 10 (4967.5MHz) & CH 10 (4972.5MHz)

Fiber Optic Interconnect

Midspan Splice Enclosure (Not all are shown)

CTSS Link (Dashed lines indicate fiber colors used – Outer color indicates buffer tube color)

Fibers patched at termination panel (Tx↔Tx)

Fibers patched at termination panel (Tx↔Rx)

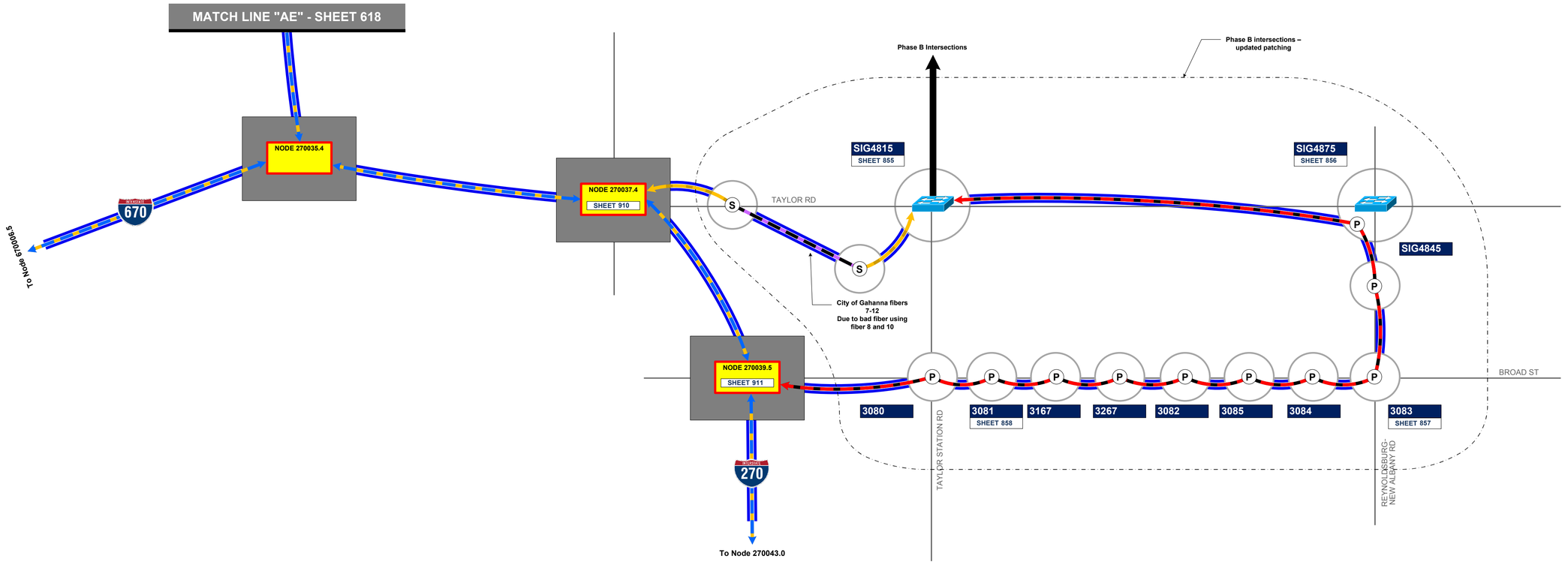
S CTSS Link (Fibers spliced at enclosure)

NOT TO SCALE

CIP: 540007 - 100005
PID NUMBER: 14522

COMMUNICATIONS PLAN
SHEET LAYOUT

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT



NODE ID	LOCATION
NODE 270035.4	I-270 AT I-670
NODE 270037.4	I-270 AT HAMILTON RD (NORTH)
NODE 270039.5	I-270 AT E BROAD ST
	PHASE C PROPOSED NODE
	EXISTING CTSS NODE

COMMUNICATIONS LEGEND

Communications Node
Backhaul Fiber Link
(with Layer 3 Network Switch)

NODE 123456.7
SHEET 1234

Ethernet Switch
Cat 5/5E/6 Cable (Ethernet)

1234
Intersection Site (1234 – ID)

PTP Wireless Link
Primary
Secondary

A 10MHz Channel, Use CH 9 (4962.5MHz) & CH 10 (4967.5MHz)
B 10MHz Channel, Use CH 10 (4967.5MHz) & CH 10 (4972.5MHz)

Fiber Optic Interconnect
Midspan Splice Enclosure (Not all are shown)
CTSS Link (Dashed lines indicate fiber colors used – Outer color indicates buffer tube color)
Fibers patched at termination panel (Tx↔Tx)
Fibers patched at termination panel (Tx↔Rx)
S CTSS Link (Fibers spliced at enclosure)

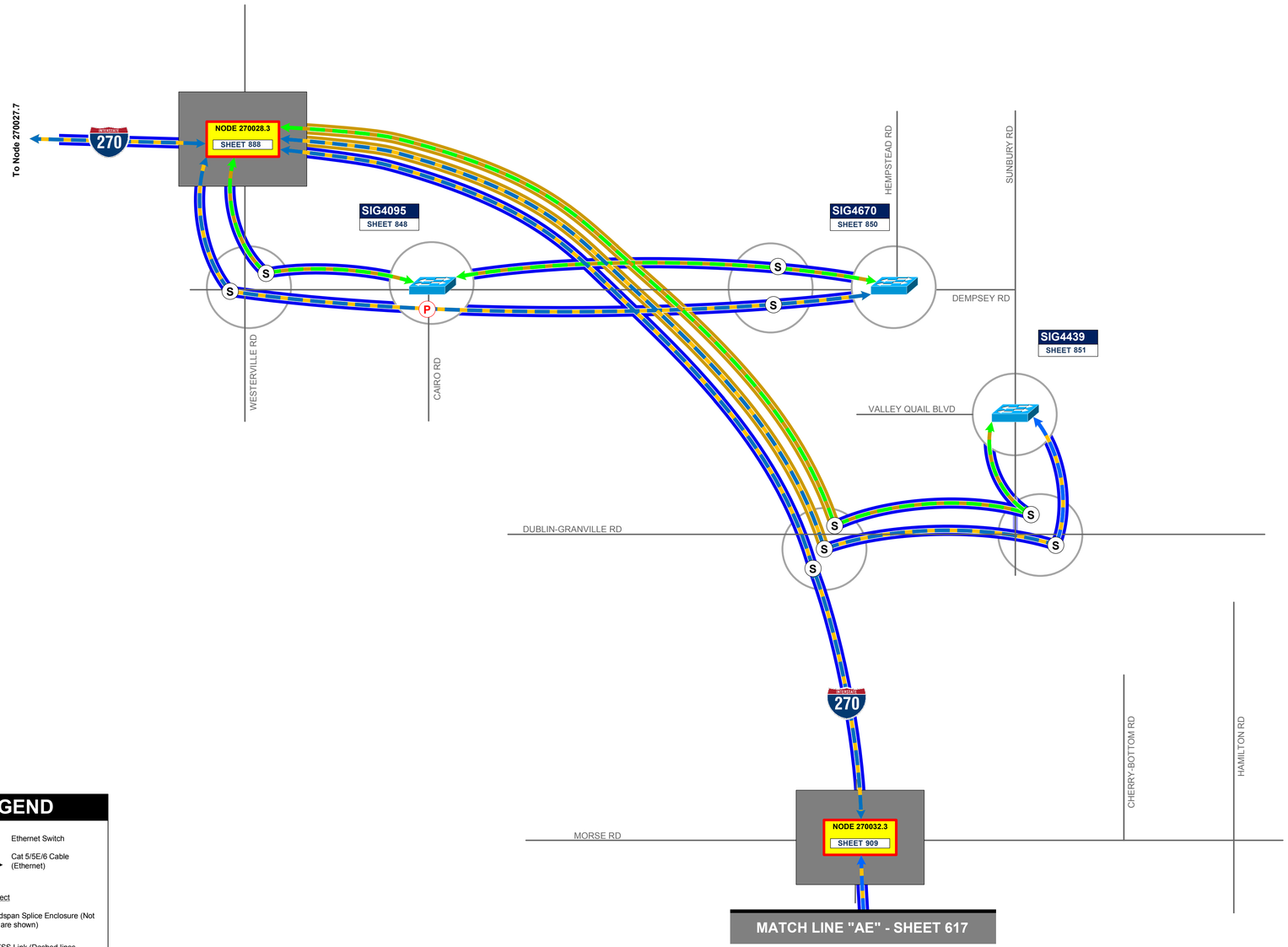
NOT TO SCALE

CIP: 540007 - 100005
PID NUMBER: 14522

COMMUNICATIONS PLAN
SHEET LAYOUT

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

617
911



COMMUNICATIONS LEGEND

Communications Node
Backhaul Fiber Link
(with Layer 3 Network Switch)

NODE 123456.7
SHEET 1234

Ethernet Switch

Cat 5/5E/6 Cable (Ethernet)

1234
Intersection Site (1234 – ID)

PTP Wireless Link
Primary
Secondary
A 10MHz Channel, Use CH 9 (4962.5MHz) & CH 10 (4967.5MHz)
B 10MHz Channel, Use CH 10 (4967.5MHz) & CH 10 (4972.5MHz)

Fiber Optic Interconnect
Midspan Splice Enclosure (Not all are shown)
CTSS Link (Dashed lines indicate fiber colors used – Outer color indicates buffer tube color)
Fibers patched at termination panel (Tx↔Tx)
Fibers patched at termination panel (Tx↔Rx)
CTSS Link (Fibers spliced at enclosure)

NODE ID	LOCATION
NODE 270028.3	I-270 AT WESTERVILLE RD
NODE 270032.3	I-270 AT MORSE RD

PHASE C PROPOSED NODE
EXISTING CTSS NODE

NOT TO SCALE

CIP: 540007 - 100005
PID NUMBER: 14522

COMMUNICATIONS PLAN
SHEET LAYOUT

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

618
911

SHEET INTENTIONALLY LEFT BLANK

NOT TO SCALE

CIP: 540007 - 100005
PID NUMBER: 14522

COMMUNICATIONS PLAN
SHEET LAYOUT

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

SHEET INTENTIONALLY LEFT BLANK

NOT TO SCALE

CIP: 540007 - 100005
PID NUMBER: 14522

COMMUNICATIONS PLAN
SHEET LAYOUT

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

620
911

SHEET INTENTIONALLY LEFT BLANK

NOT TO SCALE

CIP: 540007 - 100005
PID NUMBER: 14522

COMMUNICATIONS PLAN
SHEET LAYOUT

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

621
911

SHEET INTENTIONALLY LEFT BLANK

NOT TO SCALE

CIP: 540007 - 100005
PID NUMBER: 14522

COMMUNICATIONS PLAN
SHEET LAYOUT

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

622
911

SHEET INTENTIONALLY LEFT BLANK

NOT TO SCALE

CIP: 540007 - 100005
PID NUMBER: 14522

COMMUNICATIONS PLAN
SHEET LAYOUT

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

623
911

SHEET INTENTIONALLY LEFT BLANK

NOT TO SCALE

CIP: 540007 - 100005
PID NUMBER: 14522

COMMUNICATIONS PLAN
SHEET LAYOUT

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

624
911

SHEET INTENTIONALLY LEFT BLANK

NOT TO SCALE

CIP: 540007 - 100005
PID NUMBER: 14522

COMMUNICATIONS PLAN
SHEET LAYOUT

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

SHEET INTENTIONALLY LEFT BLANK

NOT TO SCALE

CIP: 540007 - 100005
PID NUMBER: 14522

COMMUNICATIONS PLAN
SHEET LAYOUT

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

626
911

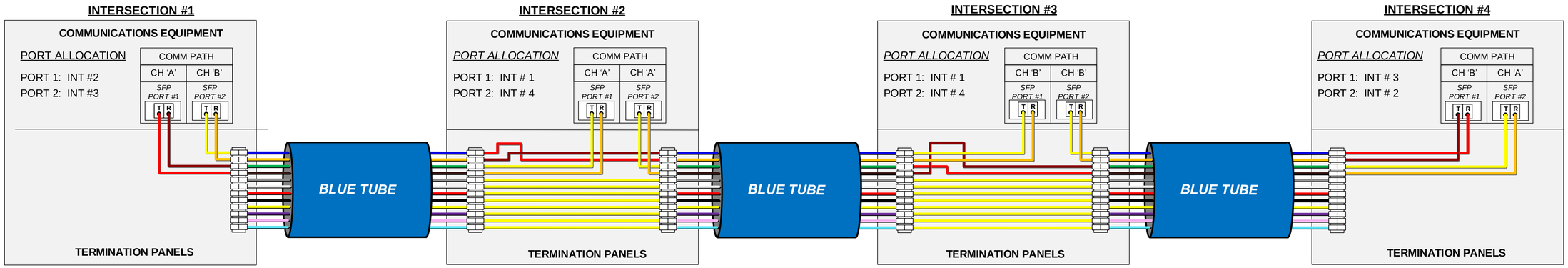
SHEET INTENTIONALLY LEFT BLANK

NOT TO SCALE

CIP: 540007 - 100005
PID NUMBER: 14522

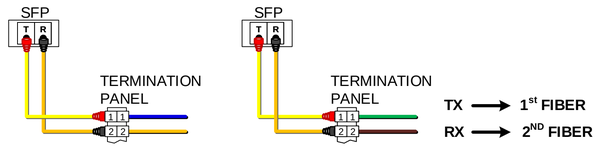
COMMUNICATIONS PLAN
SHEET LAYOUT

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

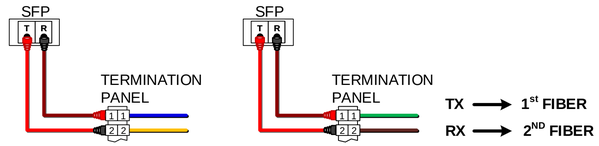


DUAL CHANNEL FIBER OPTIC COMMUNICATIONS PATH DIAGRAM

PATCH CABLES [1,2]



STANDARD



CROSSOVER

LEGEND

- 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 – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

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 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 SPLICE ENCLOSURE

8P8C CONNECTOR

RF CONNECTOR

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 - 100005
PID NUMBER: 14522

COMMUNICATION NOTES

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

628
911

Comm Notes.vsd - Comm Notes layout - last saved 11/28/2018 2:10:57 PM - printed: 11/28/2018 2:10:57 PM

SHEET INTENTIONALLY LEFT BLANK

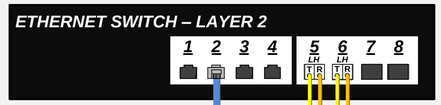
NOT TO SCALE

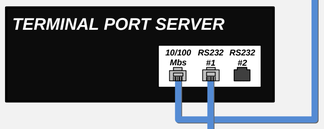
CIP: 540007 - 100005
PID NUMBER: 14522

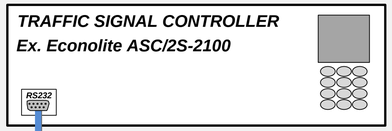
COMMUNICATIONS PLAN
SHEET LAYOUT

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

TRAFFIC SIGNAL CABINET ASSEMBLY



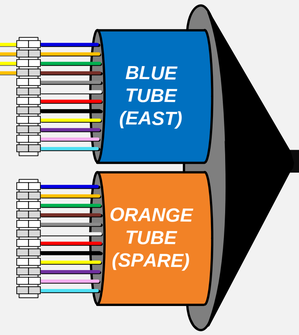


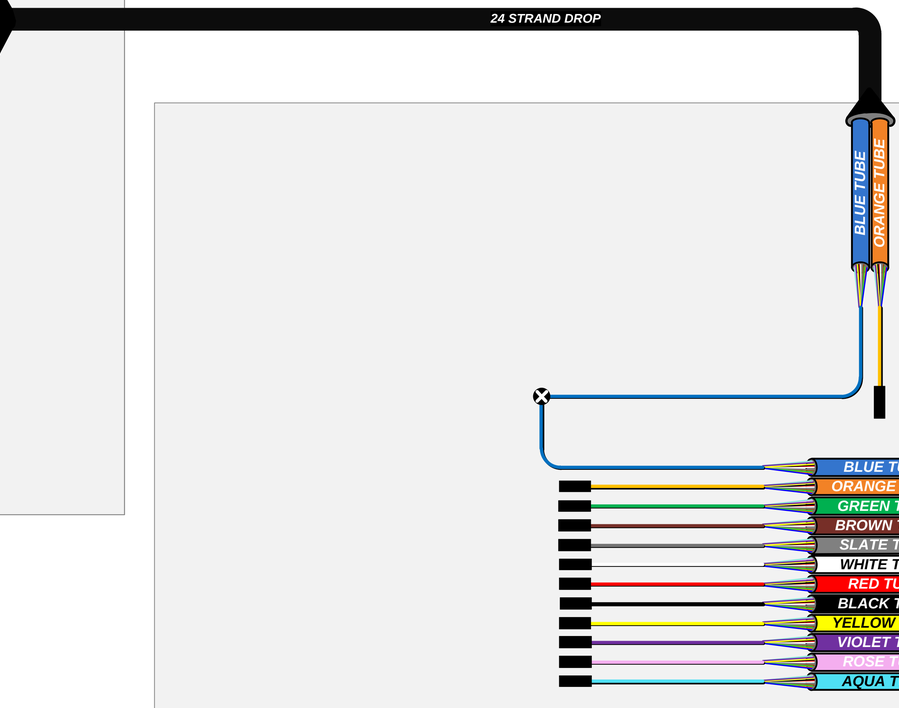


ETHERNET SWITCH PORT DESTINATION

PORT 5: PROPOSED COMMUNICATION NODE# 270009.3: IR-270 AT TRABUE RD. SEE SHEET 886

PORT 6: PROPOSED COMMUNICATION NODE# 270009.3: IR-270 AT TRABUE RD. SEE SHEET 886





PATCH PANEL ENCLOSURE – 24 TERMINATION

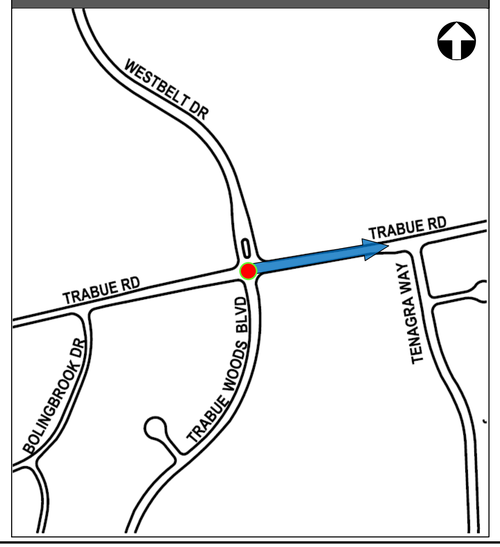
2 Cable Entries
12 Fusion Splices
12 Coiled Buffer Tubes

CLAMSHELL, 288 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX T R – GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION SIG4895

REFER TO SHEET 173 FOR CONSTRUCTION PLAN DETAILS

CIP: 540007 - 100005
PID NUMBER: 14522

INT# SIG4895: TRABUE RD. AT TRABUE WOODS BLVD. / WESTBELT DR.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

630
911

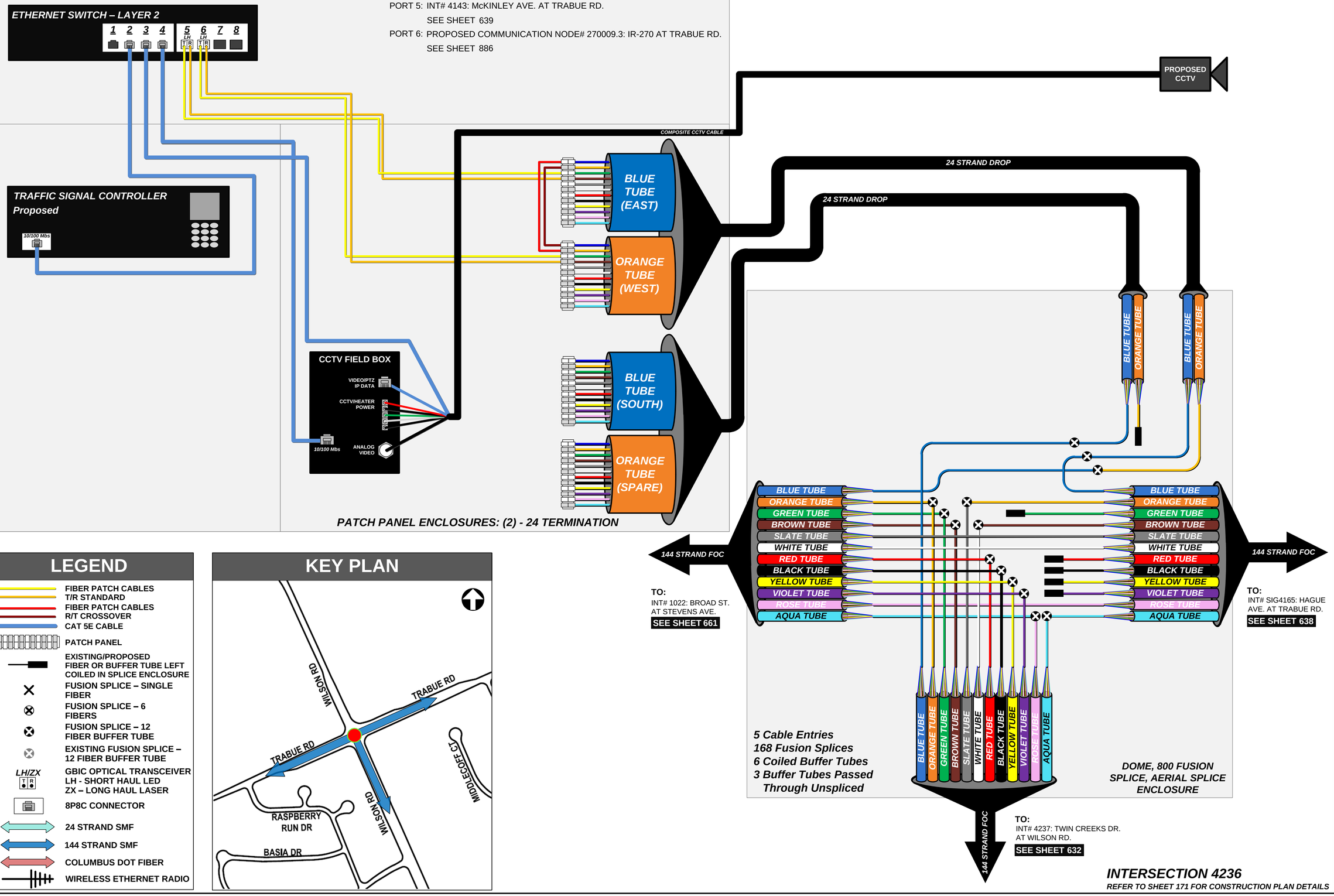
630-647.vsd - SIG4895 layout – last saved 5/2/2017 3:43:39 PM – printed: 3/11/2016 11:58:01 AM

TRAFFIC SIGNAL CABINET ASSEMBLY

ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 4143: McKINLEY AVE. AT TRABUE RD.
SEE SHEET 639

PORT 6: PROPOSED COMMUNICATION NODE# 270009.3: IR-270 AT TRABUE RD.
SEE SHEET 886



LEGEND

- 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 – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX T R — GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

KEY PLAN

INTERSECTION 4236

REFER TO SHEET 171 FOR CONSTRUCTION PLAN DETAILS

CIP: 540007 - 100005
PID NUMBER: 14522

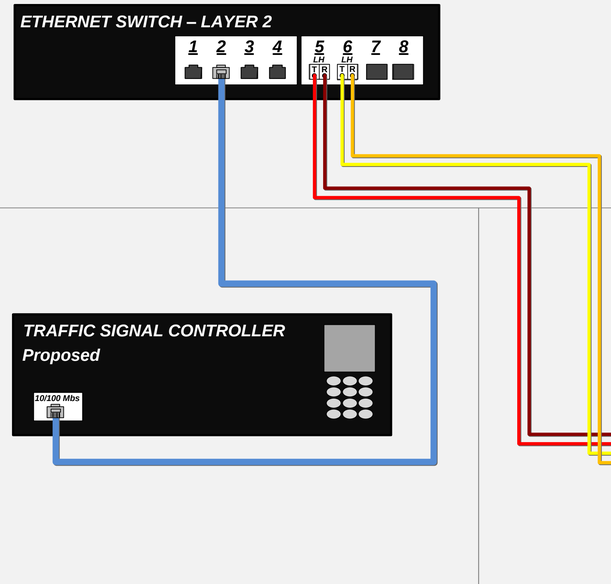
INT# 4236: TRABUE RD. AT WILSON RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

631
911

630-647.vsd - 4236 layout ~ last saved 5/2/2017 3:43:39 PM ~ printed: 3/11/2016 11:58:01 AM

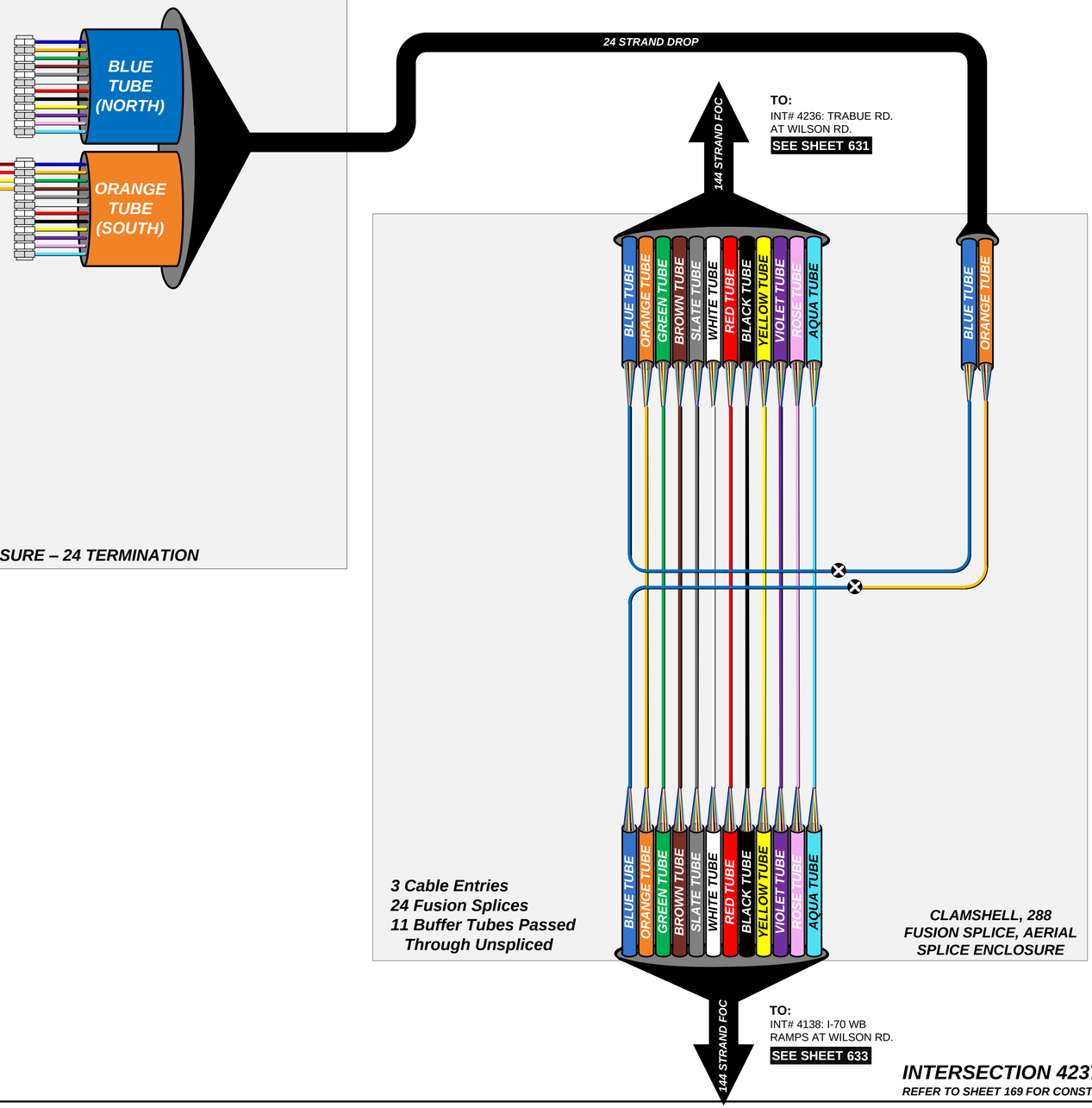
TRAFFIC SIGNAL CABINET ASSEMBLY



ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 4138: I-70 WB RAMPS AT WILSON RD.
SEE SHEET 633

PORT 6: PROPOSED COMMUNICATION NODE# 070094.1: IR-70 AT WILSON RD.
SEE SHEET 865

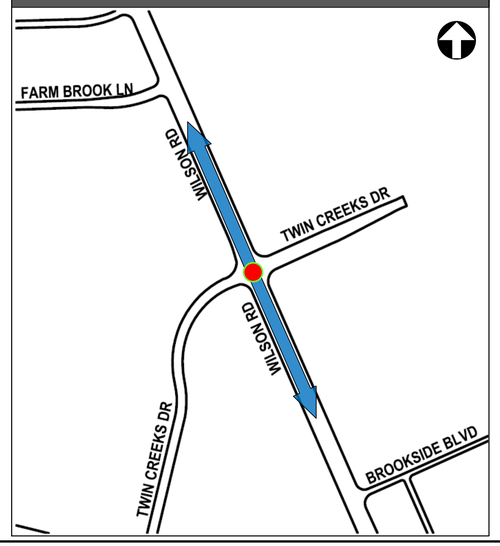


PATCH PANEL ENCLOSURE – 24 TERMINATION

LEGEND

- 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 – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 4237

REFER TO SHEET 169 FOR CONSTRUCTION PLAN DETAILS

CIP: 540007 - 100005
PID NUMBER: 14522

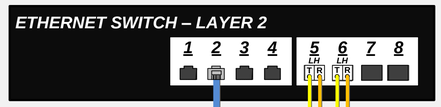
INT# 4237: TWIN CREEKS DR. AT WILSON RD.
COMMUNICATIONS DIAGRAM

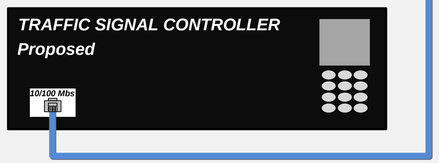
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

632
911

630-647.vsd - 4237 layout - last saved 5/2/2017 3:43:39 PM - printed: 3/11/2016 11:58:01 AM

TRAFFIC SIGNAL CABINET ASSEMBLY

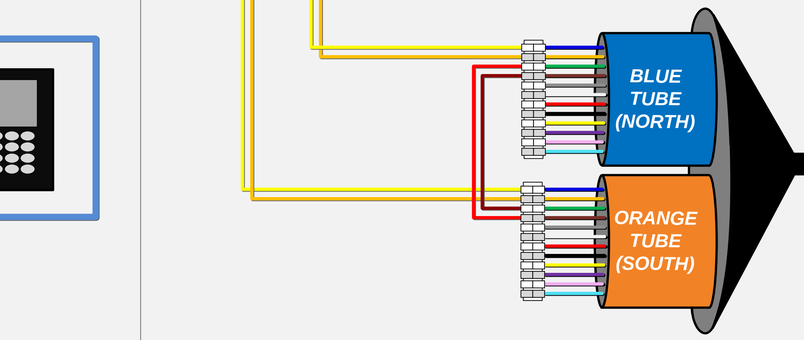




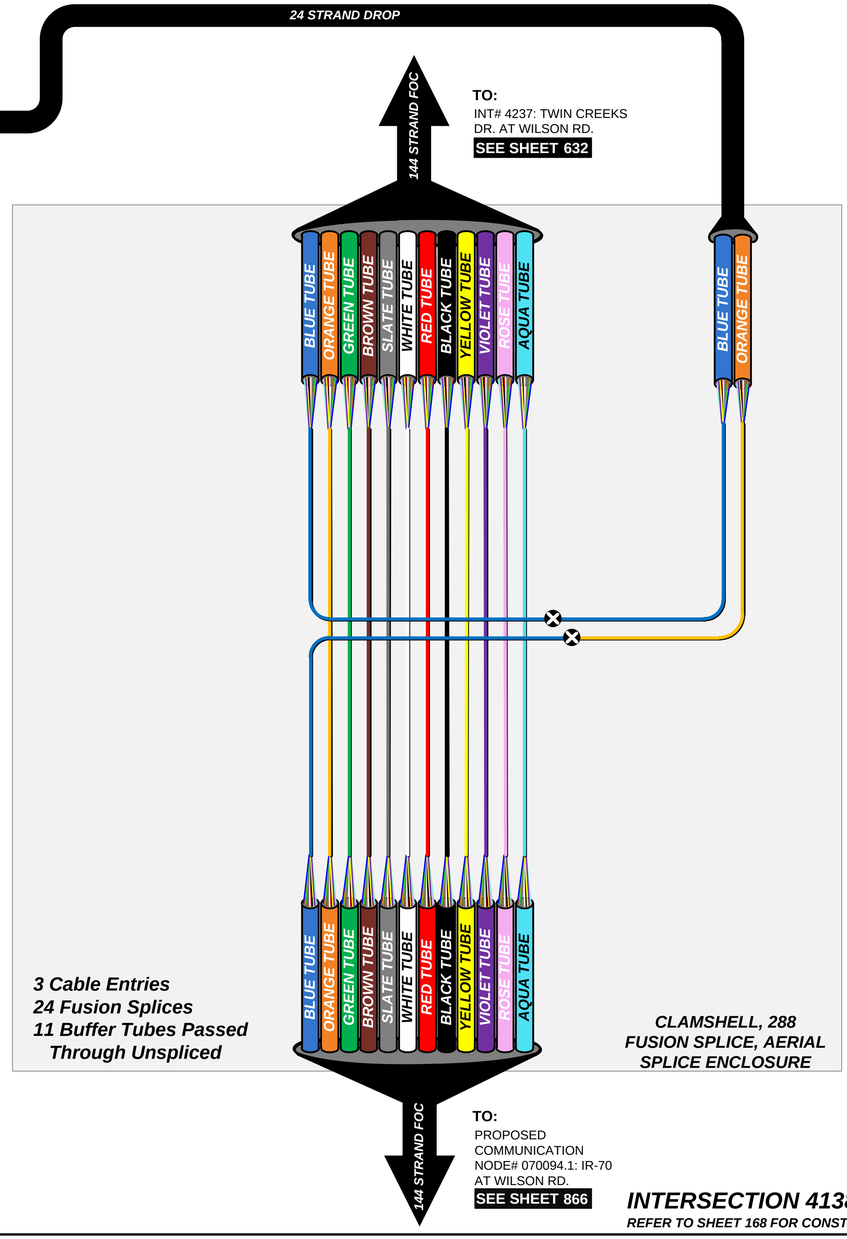
ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 4237: TWIN CREEKS DR. AT WILSON RD.
SEE SHEET 632

PORT 6: PROPOSED COMMUNICATION NODE# 070094.1: IR-70 AT WILSON RD.
SEE SHEET 865



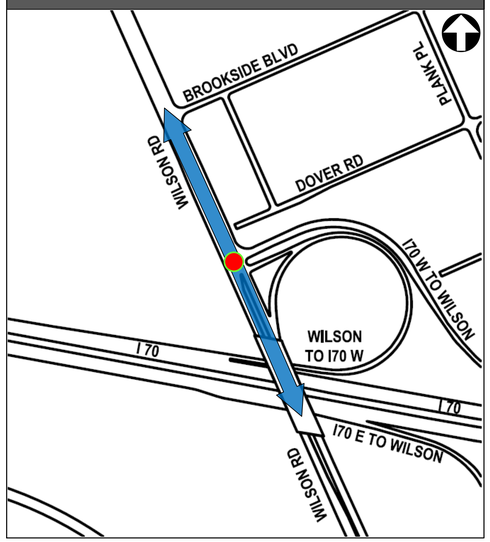
PATCH PANEL ENCLOSURE – 24 TERMINATION



LEGEND

- 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 – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 4138

REFER TO SHEET 168 FOR CONSTRUCTION PLAN DETAILS

CIP: 540007-100005
PID NUMBER: 14522

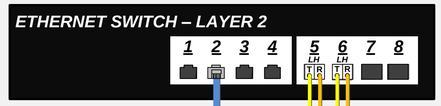
INT# 4138: I-70 WB RAMPS AT WILSON RD.
COMMUNICATIONS DIAGRAM

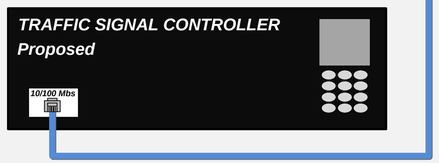
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

633
911

630-647.vsd - 4138 layout ~ last saved 5/2/2017 3:43:39 PM ~ printed: 3/11/2016 11:58:01 AM

TRAFFIC SIGNAL CABINET ASSEMBLY

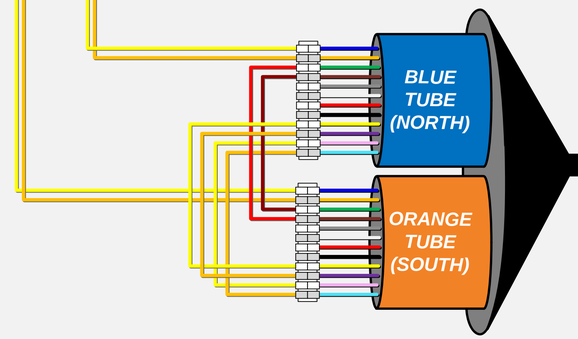




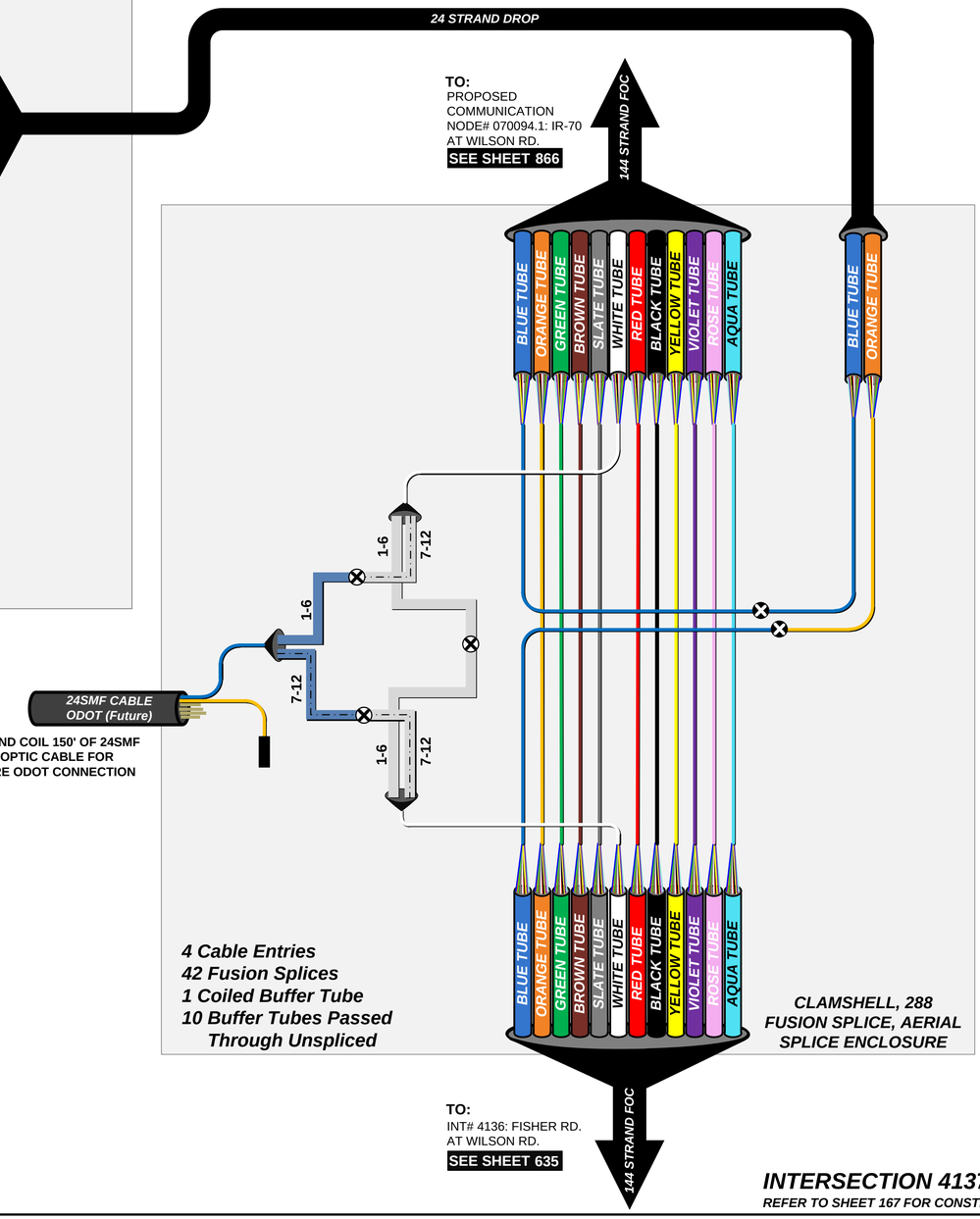
ETHERNET SWITCH PORT DESTINATION

PORT 5: PROPOSED COMMUNICATION NODE# 070094.1: IR-70 AT WILSON RD.
SEE SHEET 865

PORT 6: INT# 4135: VALLEYVIEW DR. AT WILSON RD.
SEE SHEET 636



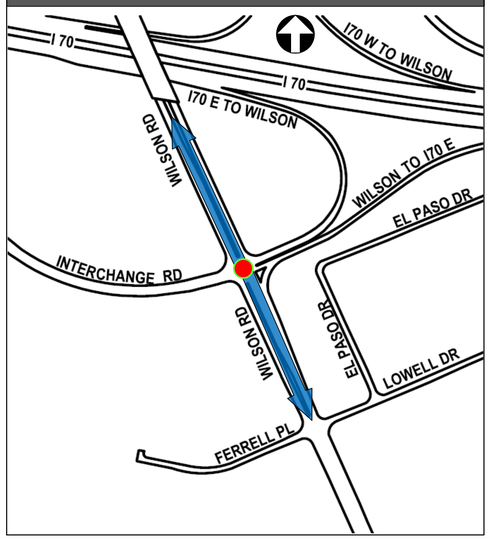
PATCH PANEL ENCLOSURE – 24 TERMINATION



LEGEND

- 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 – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX T R — GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 4137

REFER TO SHEET 167 FOR CONSTRUCTION PLAN DETAILS

CIP: 540007 - 100005
PID NUMBER: 14522

INT# 4137: I-70 EB RAMPS AT WILSON RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

634
911

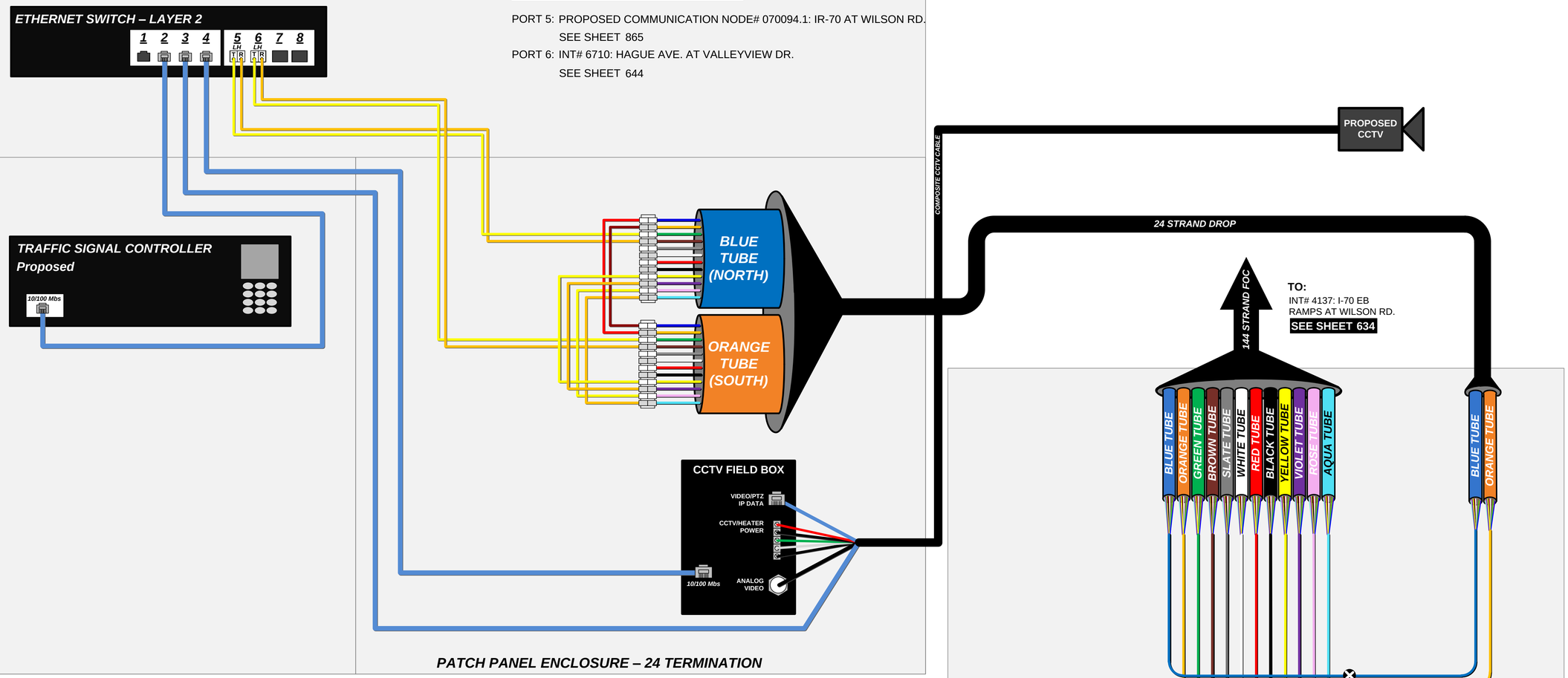
630-647.vsd - 4137 layout ~ last saved 5/2/2017 3:43:39 PM ~ printed: 3/11/2016 11:58:01 AM

TRAFFIC SIGNAL CABINET ASSEMBLY

ETHERNET SWITCH PORT DESTINATION

PORT 5: PROPOSED COMMUNICATION NODE# 070094.1: IR-70 AT WILSON RD.
SEE SHEET 865

PORT 6: INT# 6710: HAGUE AVE. AT VALLEYVIEW DR.
SEE SHEET 644

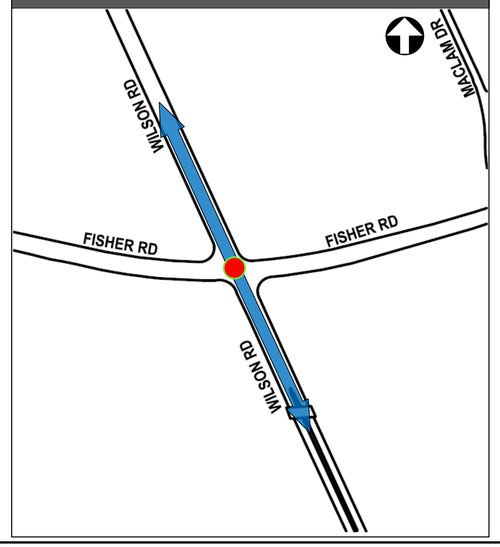


PATCH PANEL ENCLOSURE – 24 TERMINATION

LEGEND

- 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 – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 4136

REFER TO SHEET 164 FOR CONSTRUCTION PLAN DETAILS

CIP: 540007 - 100005
PID NUMBER: 14522

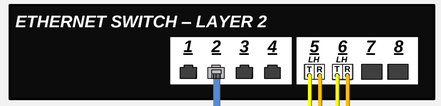
INT# 4136: FISHER RD. AT WILSON RD.
COMMUNICATIONS DIAGRAM

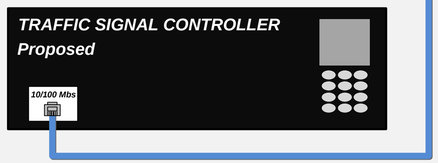
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

635
911

630-647.vsd - 4136 layout ~ last saved 5/2/2017 3:43:39 PM ~ printed: 3/11/2016 11:58:01 AM

TRAFFIC SIGNAL CABINET ASSEMBLY

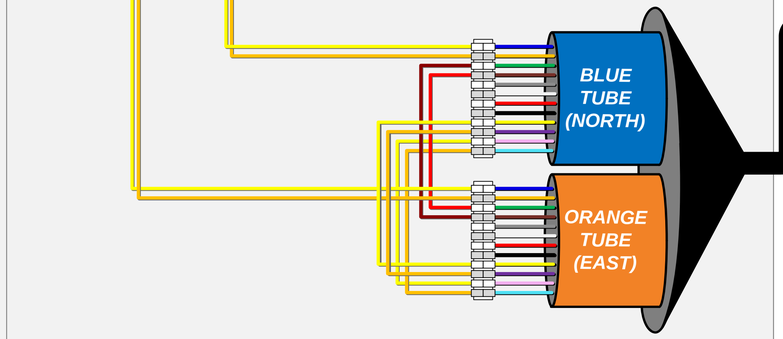




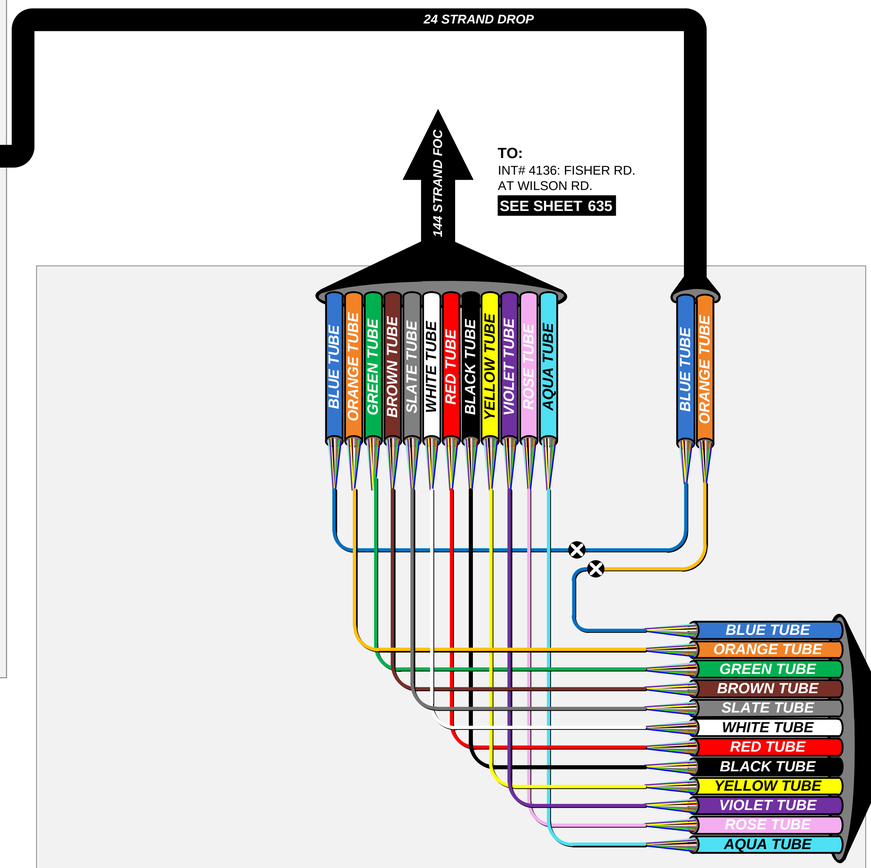
ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 4137: I-70 EB RAMPS AT WILSON RD.
SEE SHEET 634

PORT 6: INT# 1047: HAGUE AVE. AT STEELE AVE.
SEE SHEET 646



PATCH PANEL ENCLOSURE - 24 TERMINATION



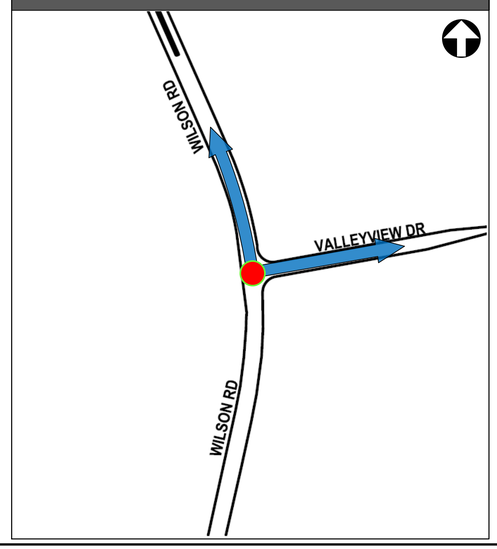
3 Cable Entries
24 Fusion Splices
11 Buffer Tubes Passed Through Unspliced

CLAMSHELL, 288 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX T R — GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 4135
REFER TO SHEET 163 FOR CONSTRUCTION PLAN DETAILS

CIP: 540007 - 100005
PID NUMBER: 14522

INT# 4135: VALLEYVIEW DR. AT WILSON RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

636
911

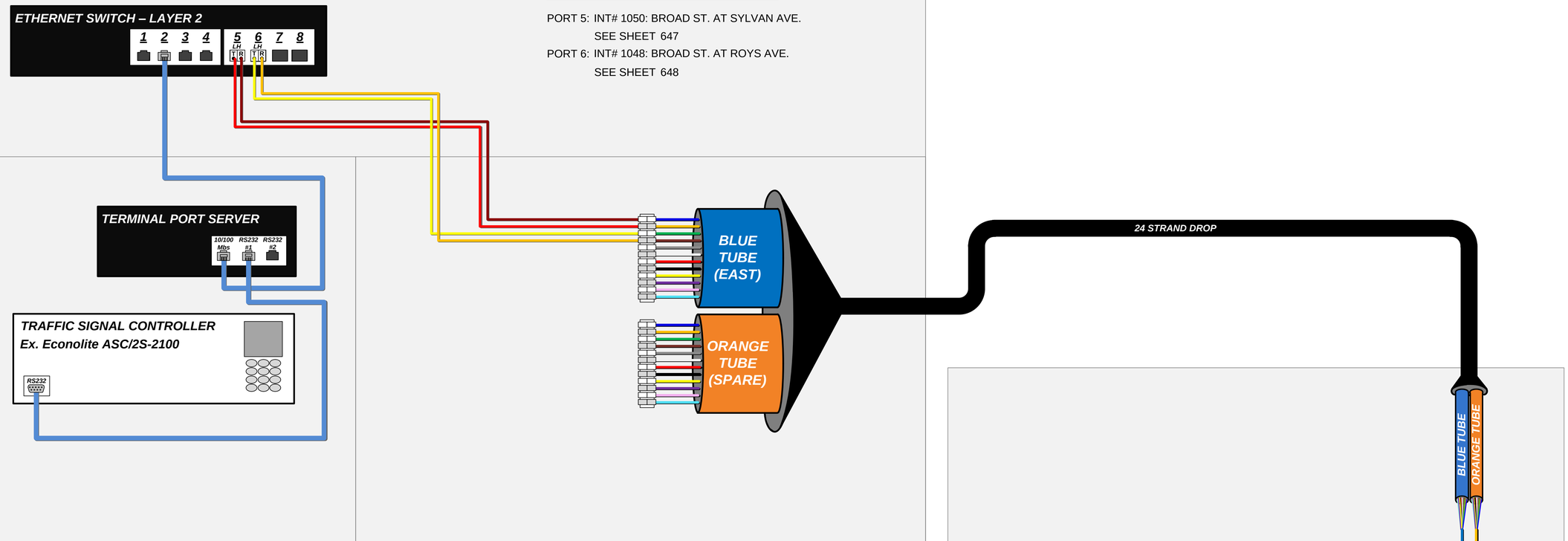
630-647.vsd - 4135 layout - last saved 5/2/2017 3:43:39 PM - printed: 3/11/2016 11:58:01 AM

TRAFFIC SIGNAL CABINET ASSEMBLY

ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 1050: BROAD ST. AT SYLVAN AVE.
SEE SHEET 647

PORT 6: INT# 1048: BROAD ST. AT ROYS AVE.
SEE SHEET 648

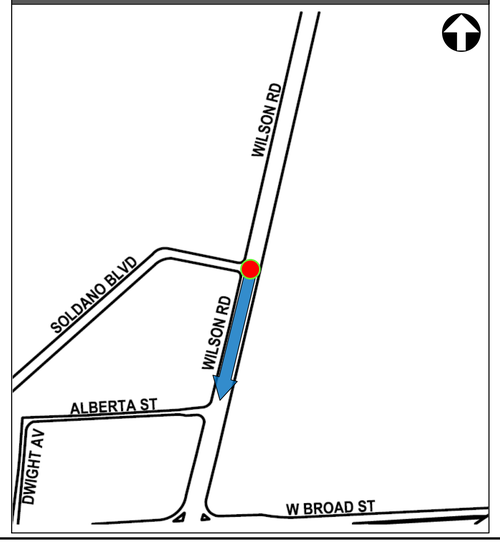


TO:
INT# 1050: BROAD ST. AT SYLVAN AVE.
SEE SHEET 647

LEGEND

- 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 – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 4134

REFER TO SHEET 162 FOR CONSTRUCTION PLAN DETAILS

CIP: 540007 - 100005
PID NUMBER: 14522

INT# 4134: GREAT WESTERN SHOPPING CENTER / SOLDANO BLVD. AT WILSON RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

637
911

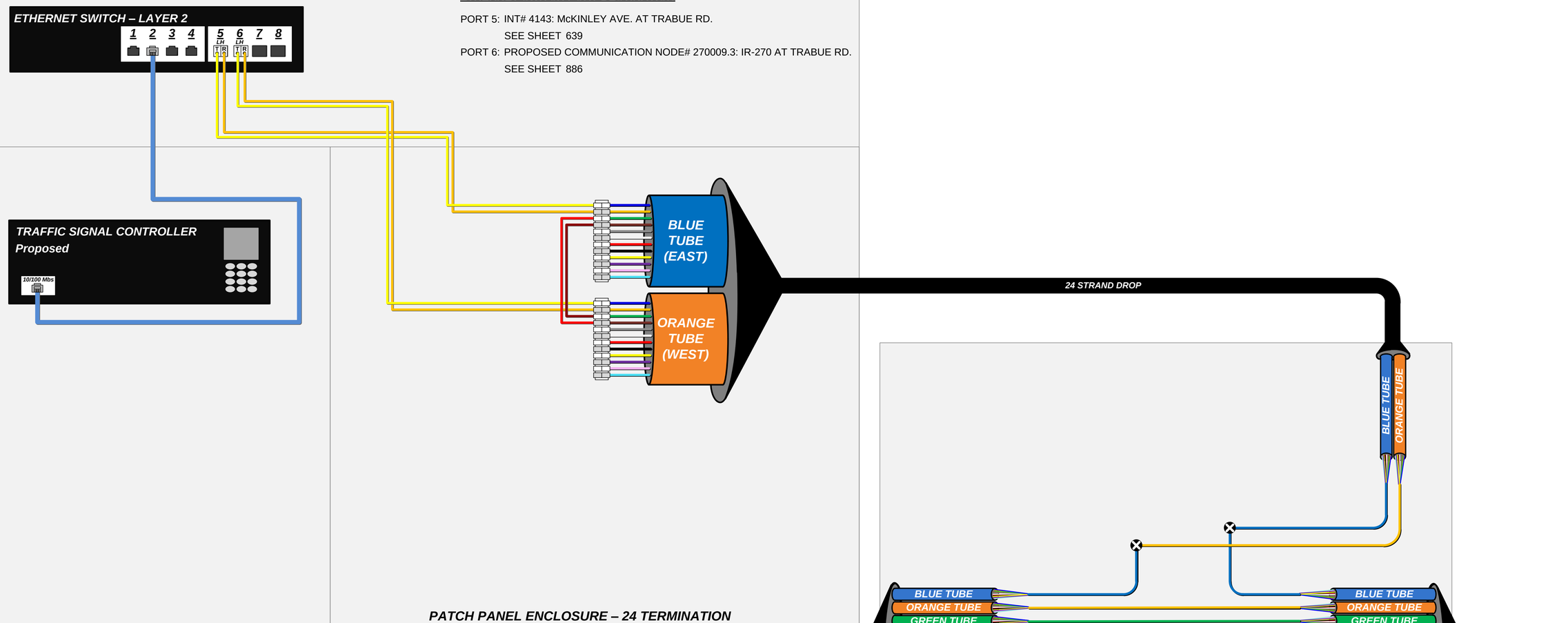
630-647.vsd - 4134 layout ~ last saved 5/2/2017 3:43:39 PM ~ printed: 3/11/2016 11:58:01 AM

TRAFFIC SIGNAL CABINET ASSEMBLY

ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 4143: McKINLEY AVE. AT TRABUE RD.
SEE SHEET 639

PORT 6: PROPOSED COMMUNICATION NODE# 270009.3: IR-270 AT TRABUE RD.
SEE SHEET 886



PATCH PANEL ENCLOSURE – 24 TERMINATION

TO:
INT# 4236: TRABUE RD.
AT WILSON RD.
SEE SHEET 631

TO:
INT# 4143: McKINLEY
AVE. AT TRABUE RD.
SEE SHEET 639

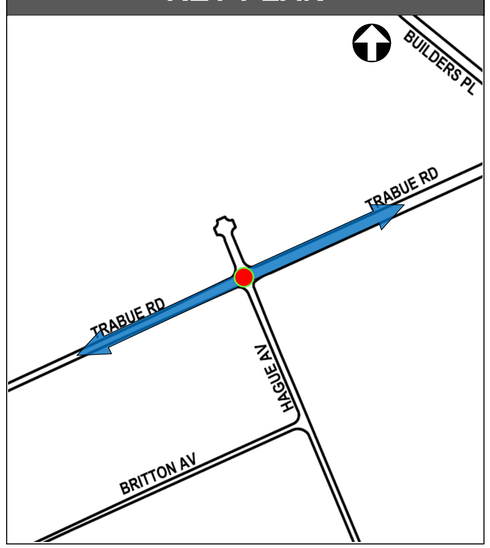
3 Cable Entries
24 Fusion Splices
11 Buffer Tubes Passed Through Unspliced

CLAMSHELL, 288 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION SIG4165
REFER TO SHEET 177 FOR CONSTRUCTION PLAN DETAILS

CIP: 540007 - 100005
PID NUMBER: 14522

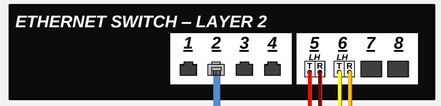
INT# SIG4165: HAGUE AVE. AT TRABUE RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

638
911

630-647.vsd - SIG4165 layout ~ last saved 5/2/2017 3:43:39 PM ~ printed: 3/11/2016 11:58:01 AM

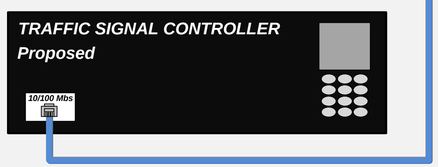
TRAFFIC SIGNAL CABINET ASSEMBLY

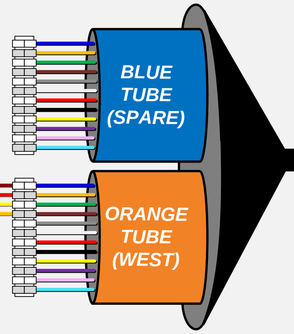


ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# SIG4165: HAGUE AVE. AT TRABUE RD.
SEE SHEET 638

PORT 6: INT# 4236: TRABUE RD. AT WILSON RD.
SEE SHEET 631

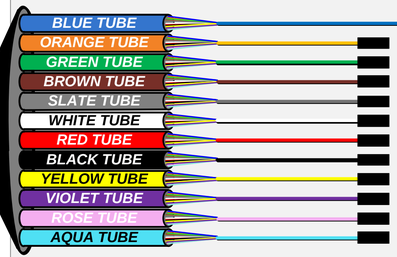




24 STRAND DROP



PATCH PANEL ENCLOSURE – 24 TERMINATION



TO:
INT# SIG4165: HAGUE AVE. AT TRABUE RD.
SEE SHEET 638

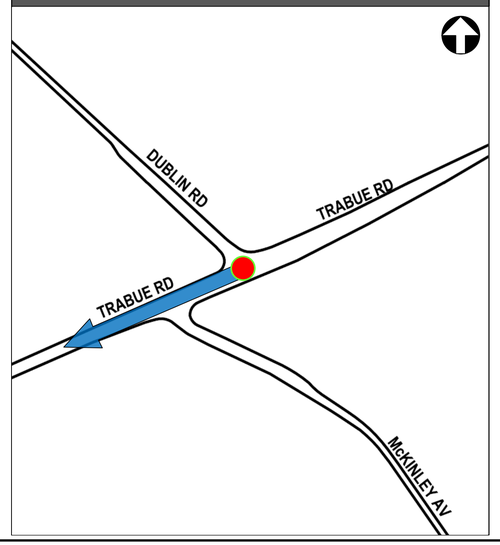
2 Cable Entries
12 Fusion Splices
12 Coiled Buffer Tubes

CLAMSHELL, 288 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 4143
REFER TO SHEET 180 FOR CONSTRUCTION PLAN DETAILS

CIP: 540007 - 100005
PID NUMBER: 14522

INT# 4143: McKINLEY AVE. AT TRABUE RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

639
911

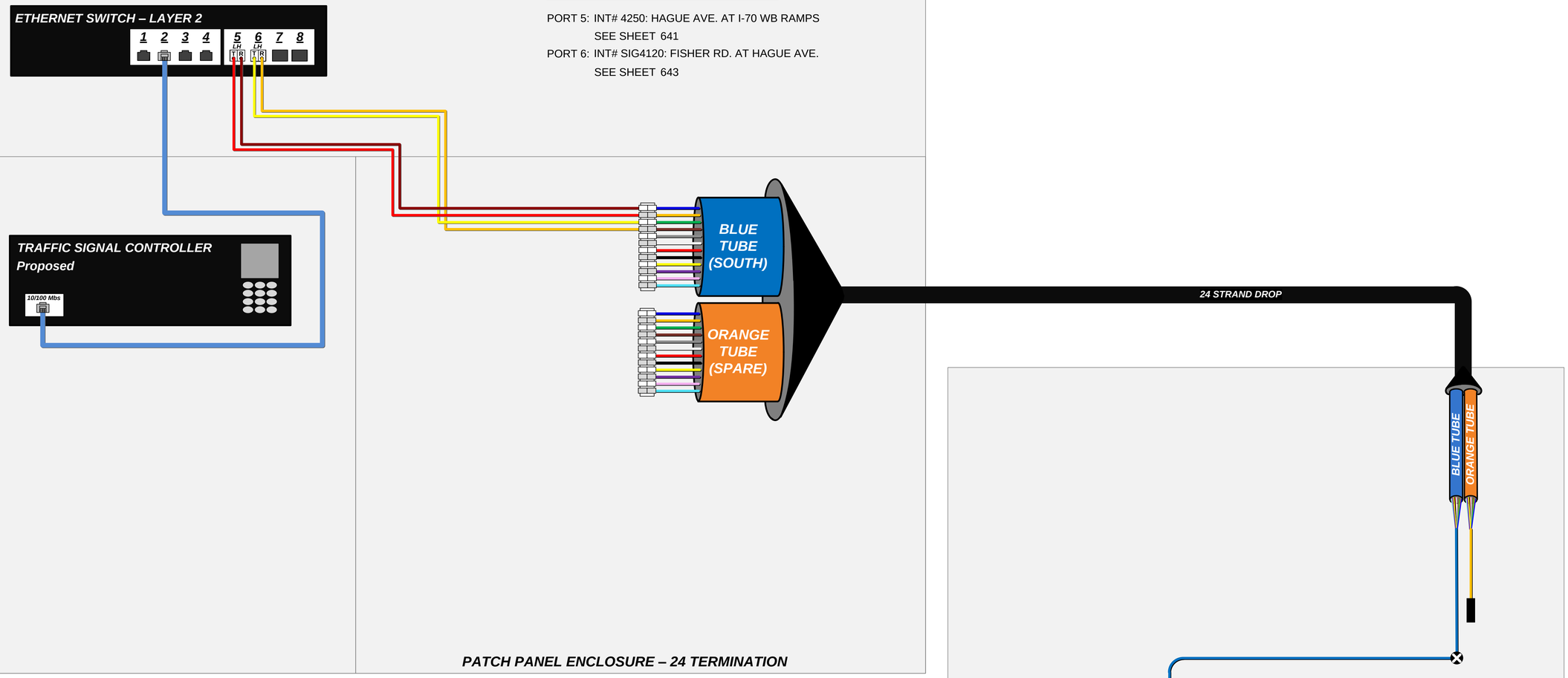
630-647.vsd - 4143 layout - last saved 5/2/2017 3:43:39 PM - printed: 3/11/2016 11:58:01 AM

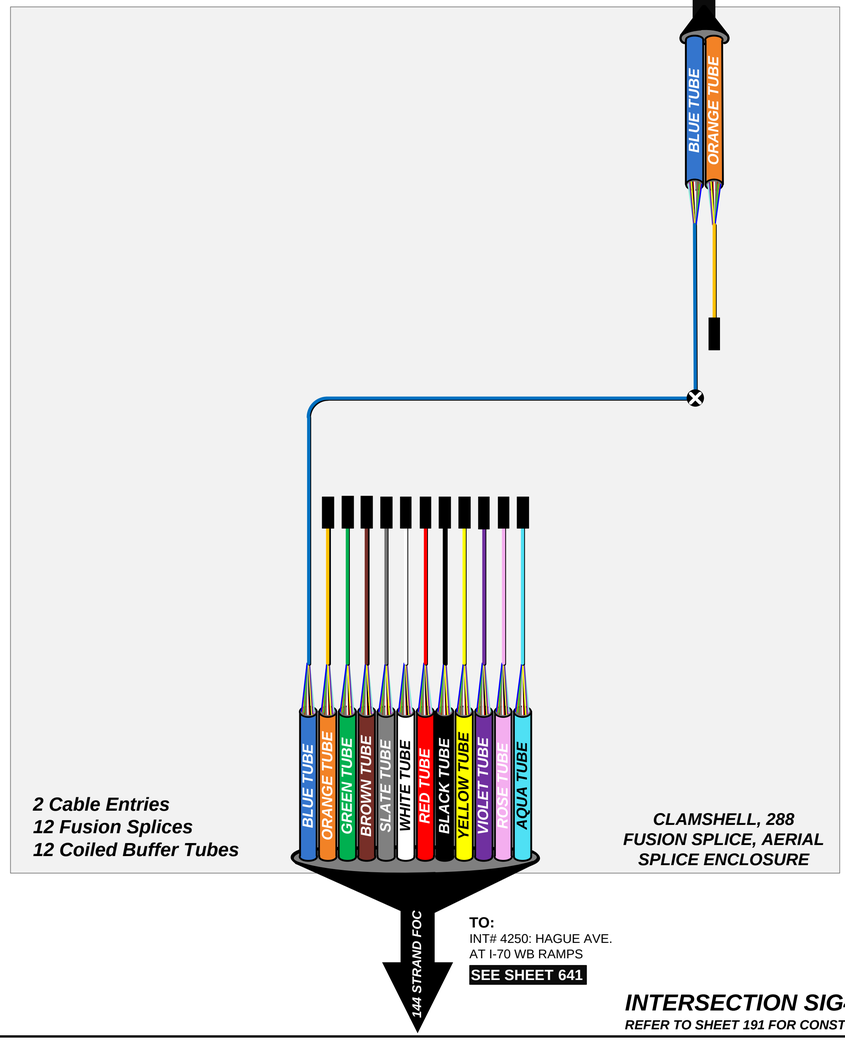
TRAFFIC SIGNAL CABINET ASSEMBLY

ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 4250: HAGUE AVE. AT I-70 WB RAMPS
SEE SHEET 641

PORT 6: INT# SIG4120: FISHER RD. AT HAGUE AVE.
SEE SHEET 643

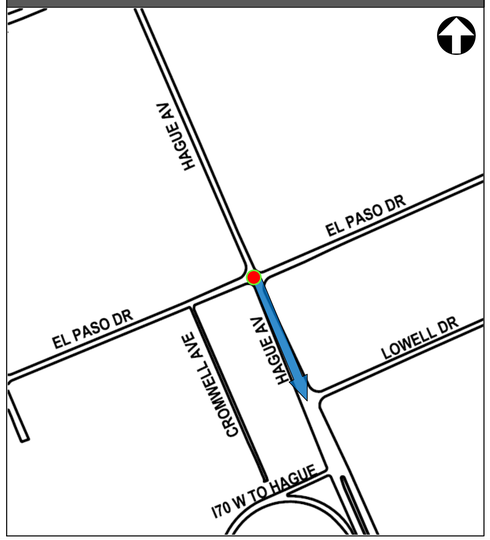




LEGEND

- 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 – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION SIG4160

REFER TO SHEET 191 FOR CONSTRUCTION PLAN DETAILS

CIP: 540007 - 100005
PID NUMBER: 14522

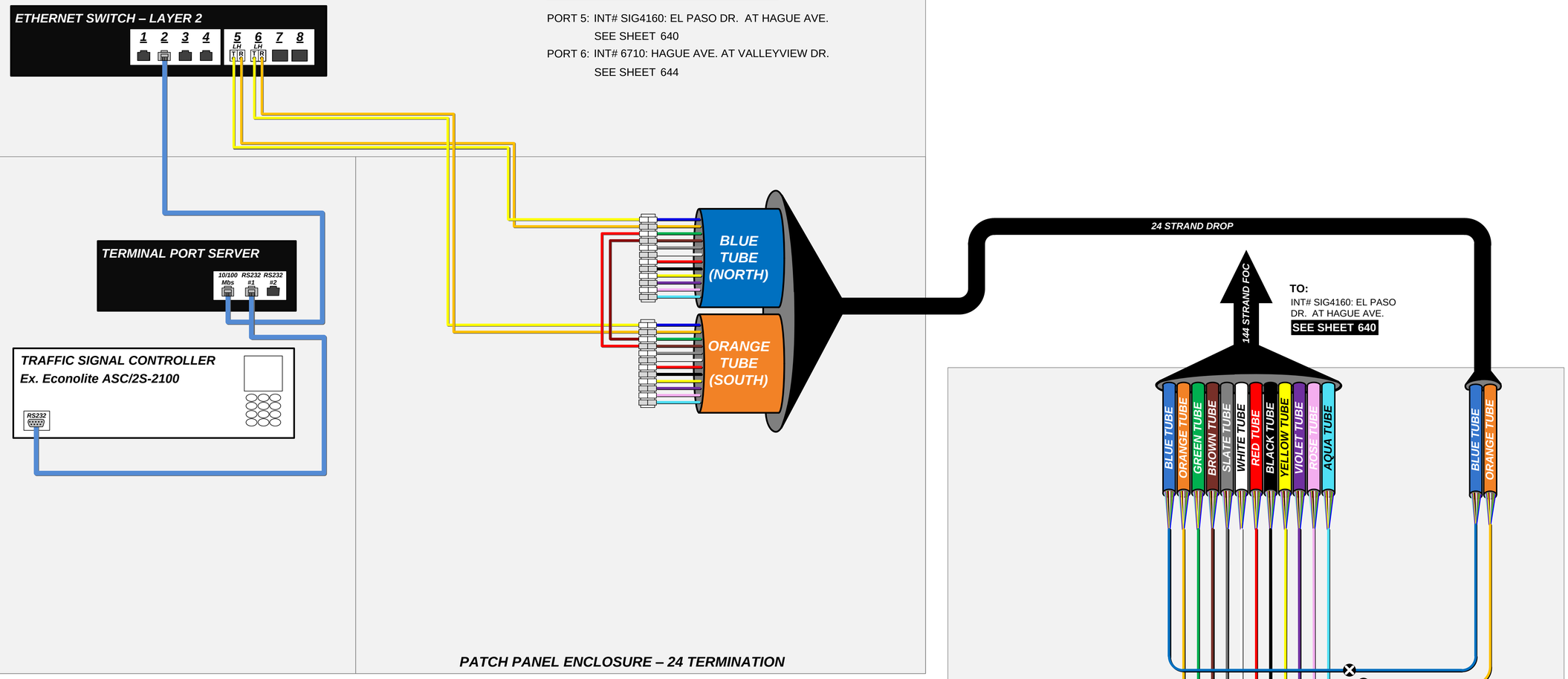
INT# SIG4160: EL PASO DR. AT HAGUE AVE.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

640
911

630-647.vsd - SIG4160 layout - last saved 5/2/2017 3:43:39 PM - printed: 3/11/2016 11:58:01 AM

TRAFFIC SIGNAL CABINET ASSEMBLY



ETHERNET SWITCH PORT DESTINATION

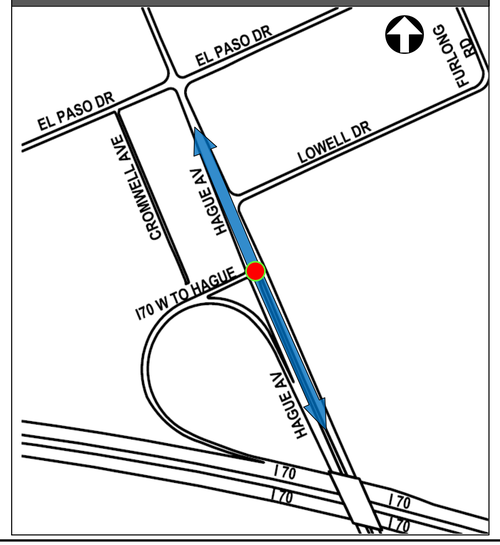
PORT 5: INT# SIG4160: EL PASO DR. AT HAGUE AVE.
SEE SHEET 640

PORT 6: INT# 6710: HAGUE AVE. AT VALLEYVIEW DR.
SEE SHEET 644

LEGEND

- 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 – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 4250

REFER TO SHEET 190 FOR CONSTRUCTION PLAN DETAILS

CIP: 540007 - 100005
PID NUMBER: 14522

INT# 4250: HAGUE AVE. AT I-70 WB RAMPS
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

641
911

630-647.vsd - 4250 layout ~ last saved 5/2/2017 3:43:39 PM ~ printed: 3/11/2016 11:58:01 AM

SHEET INTENTIONALLY LEFT BLANK

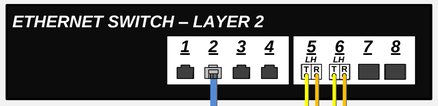
CIP: 540007 - 100005
PID NUMBER: 14522

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

642
911

J:\Jobs\50806\TECHPROD\Communications\Intersection Comm Sheets\Splicing Details\630-647.vsd - Blank Sheet layout ~ last saved by: skoganti 5/2/2017 3:43:39 PM ~ printed: 3/11/2016 11:58:01 AM

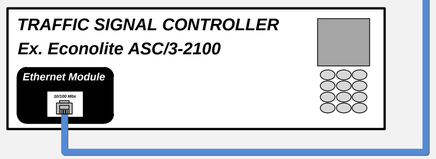
TRAFFIC SIGNAL CABINET ASSEMBLY

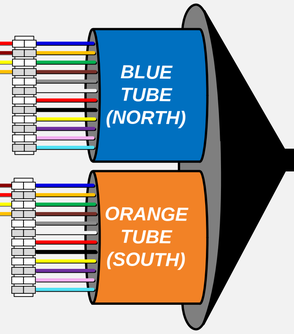


ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# SIG4160: EL PASO DR. AT HAGUE AVE.
SEE SHEET 640

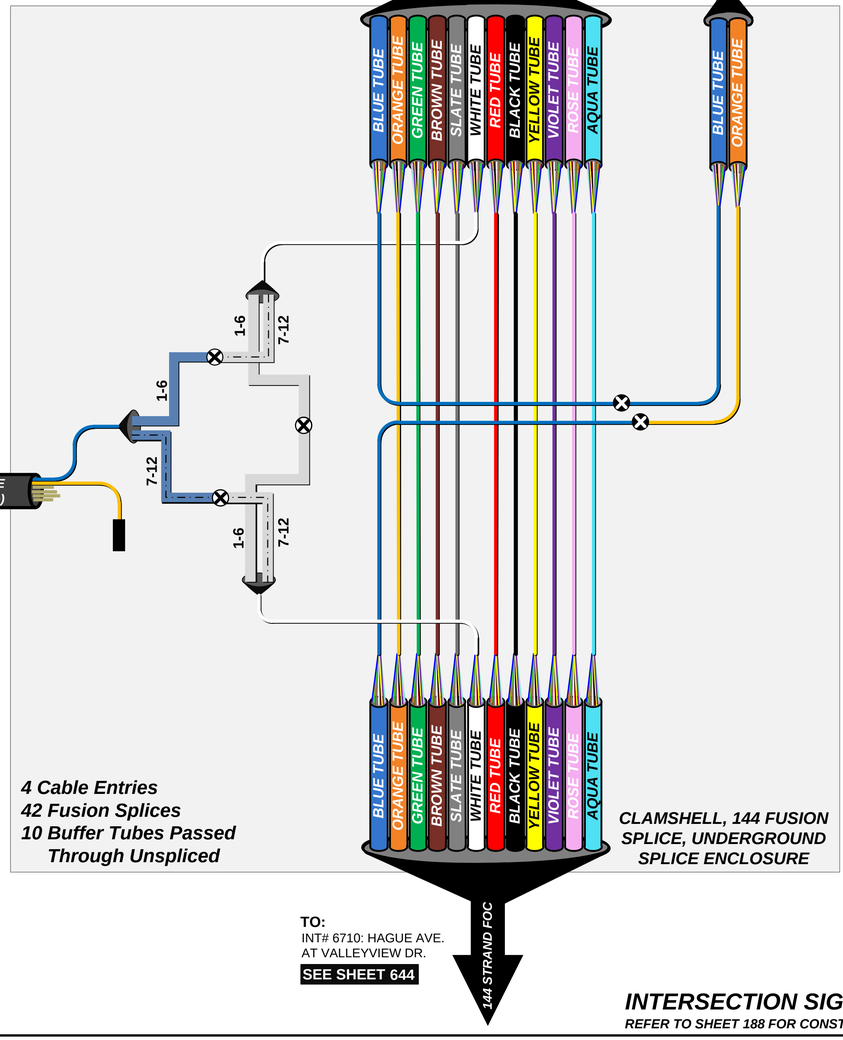
PORT 6: INT# 1047: HAGUE AVE. AT STEELE AVE.
SEE SHEET 646





24 STRAND DROP

TO:
INT# SPLICE-01:
HAGUE AVE. AT I-70
SEE SHEET 642

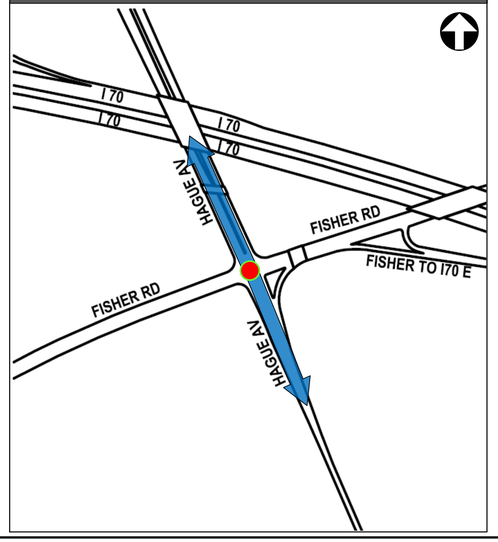


PATCH PANEL ENCLOSURE – 24 TERMINATION

LEGEND

- 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 – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION SIG4120

REFER TO SHEET 188 FOR CONSTRUCTION PLAN DETAILS

CIP: 540007 - 100005
PID NUMBER: 14522

INT# SIG4120: FISHER RD. AT HAGUE AVE.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

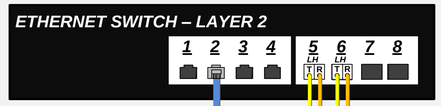
643
911

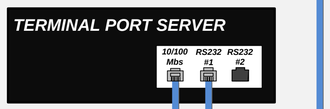
630-647.vsd - SIG4120 layout - last saved 5/2/2017 3:43:39 PM - printed: 3/11/2016 11:58:01 AM

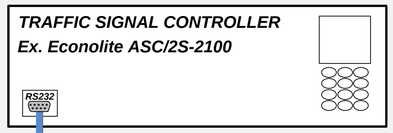
TRAFFIC SIGNAL CABINET ASSEMBLY

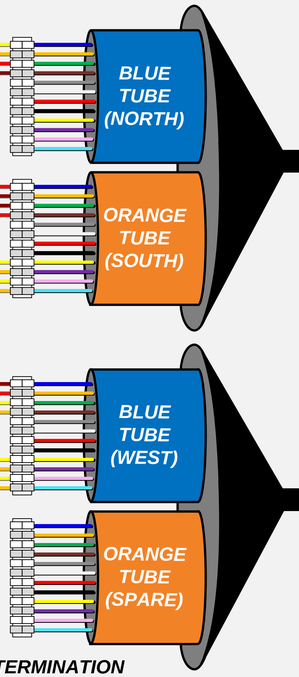
ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 4250: HAGUE AVE. AT I-70 WB RAMPS
SEE SHEET 641
PORT 6: INT# 4136: FISHER RD. AT WILSON RD.
SEE SHEET 635

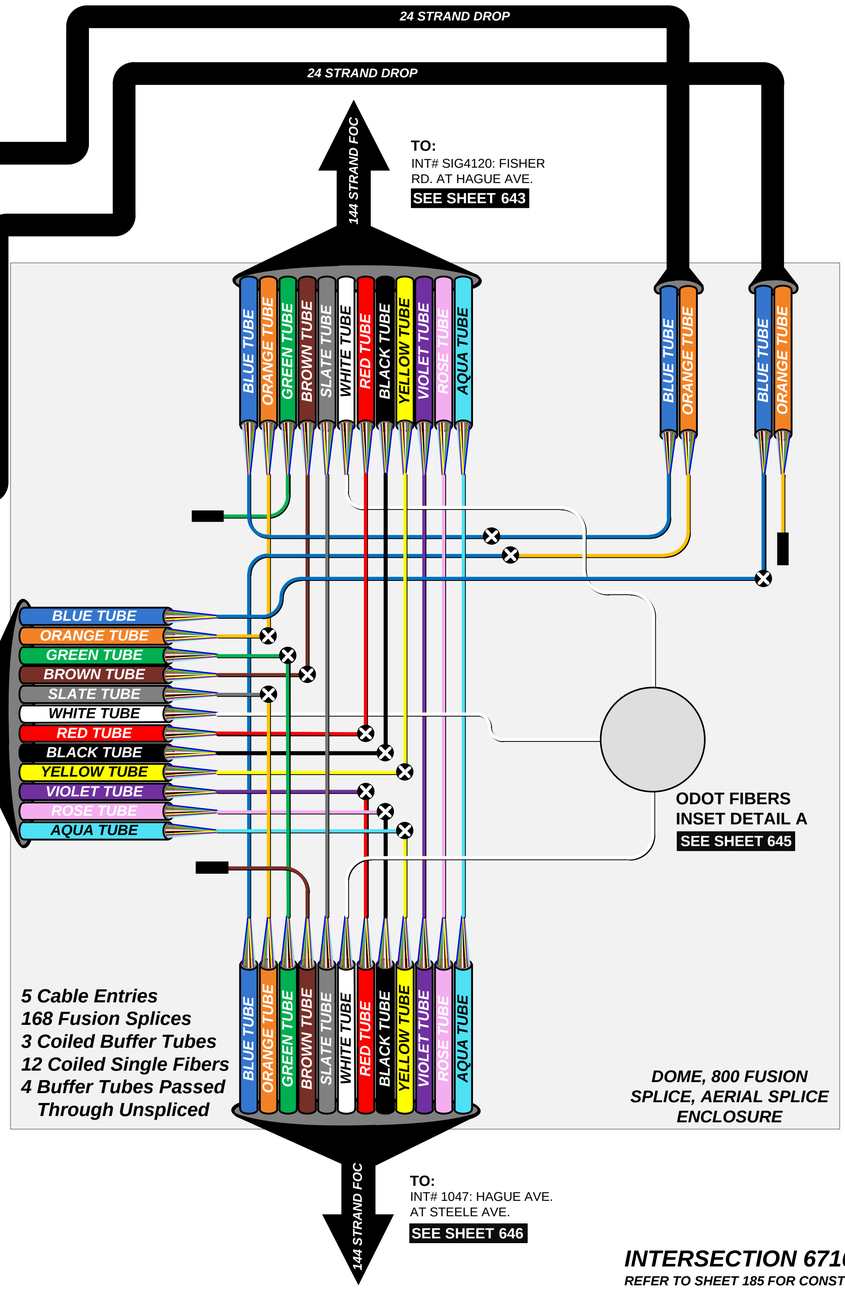








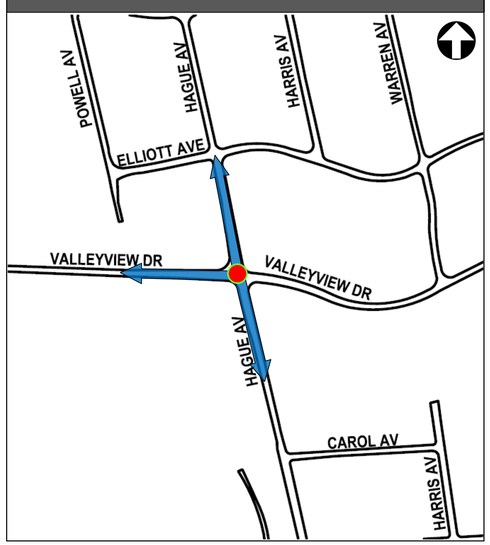
PATCH PANEL ENCLOSURES: (2) - 24 TERMINATION



LEGEND

- 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 – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX T R — GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 6710
REFER TO SHEET 185 FOR CONSTRUCTION PLAN DETAILS

CIP: 540007 - 100005
PID NUMBER: 14522

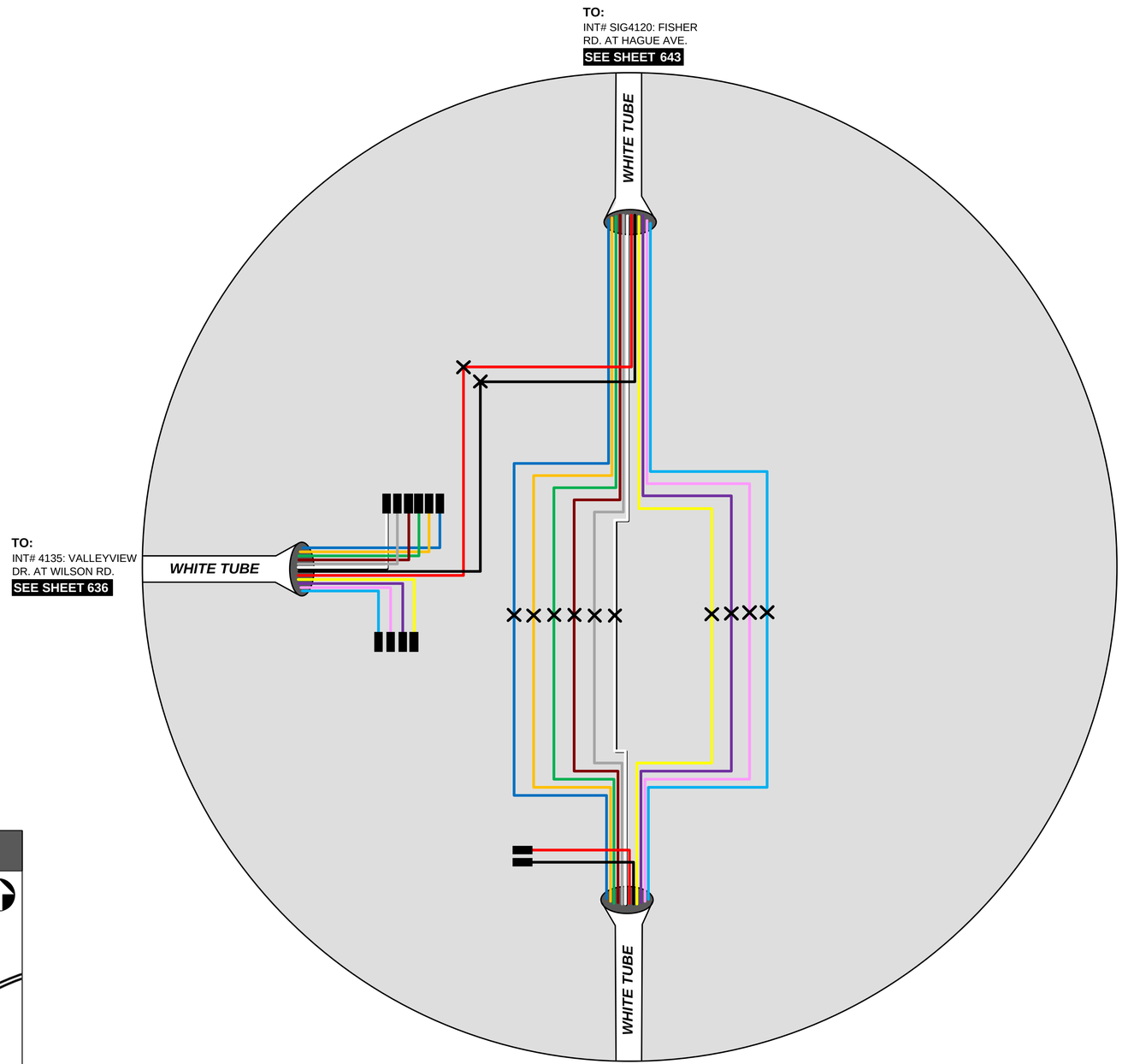
INT# 6710: HAGUE AVE. AT VALLEYVIEW DR.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

644
911

630-647.vsd - 6710 layout – last saved 5/2/2017 3:43:39 PM – printed: 3/11/2016 11:58:01 AM

J:\Jobs\50806\TECHPROD\Communications\Intersection Comm Sheets\Splicing Details\630-647.vsd - 6710-ODOT layout ~ last saved by: skogant 5/2/2017 3:43:39 PM ~ printed: 3/11/2016 11:58:01 AM



TO:
INT# SIG4120: FISHER RD. AT HAGUE AVE.
SEE SHEET 643

TO:
INT# 4135: VALLEYVIEW DR. AT WILSON RD.
SEE SHEET 636

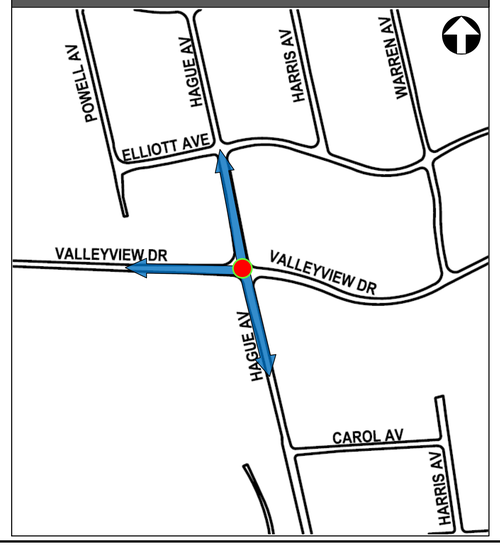
TO:
INT# 1047: HAGUE AVE. AT STEELE AVE.
SEE SHEET 646

INSET DETAIL A
SEE SHEET 644

LEGEND

- 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 – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- *LH/ZX* GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

KEY PLAN



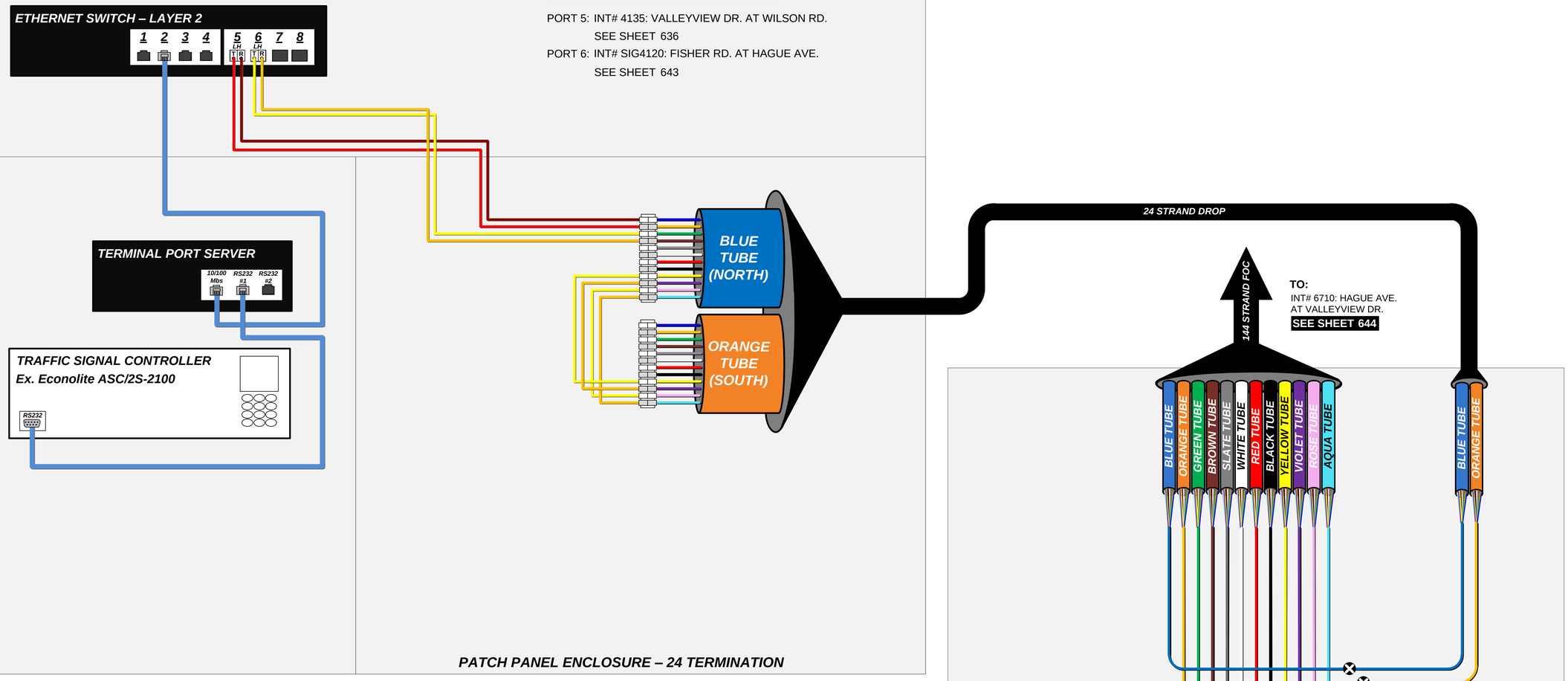
INTERSECTION 6710
REFER TO SHEET 185 FOR CONSTRUCTION PLAN DETAILS

CIP: 540007 - 100005
PID NUMBER: 14522

INT# 6710: HAGUE AVE. AT VALLEYVIEW DR.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

TRAFFIC SIGNAL CABINET ASSEMBLY



ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 4135: VALLEYVIEW DR. AT WILSON RD.
SEE SHEET 636

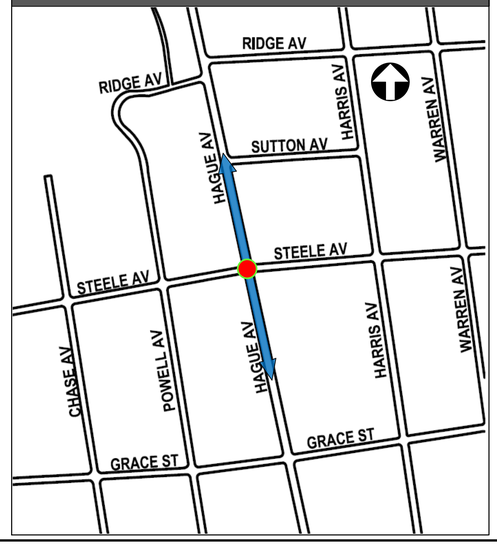
PORT 6: INT# SIG4120: FISHER RD. AT HAGUE AVE.
SEE SHEET 643

PATCH PANEL ENCLOSURE – 24 TERMINATION

LEGEND

- 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 – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 1047

REFER TO SHEET 184 FOR CONSTRUCTION PLAN DETAILS

CIP: 540007 - 100005
PID NUMBER: 14522

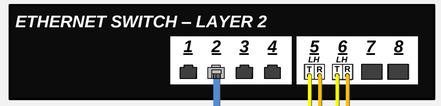
INT# 1047: HAGUE AVE. AT STEELE AVE.
COMMUNICATIONS DIAGRAM

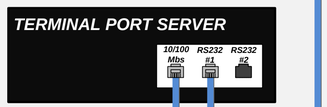
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

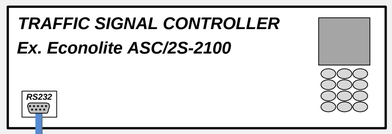
646
911

630-647.vsd - 1047 layout ~ last saved 5/2/2017 3:43:39 PM ~ printed: 3/11/2016 11:58:01 AM

TRAFFIC SIGNAL CABINET ASSEMBLY







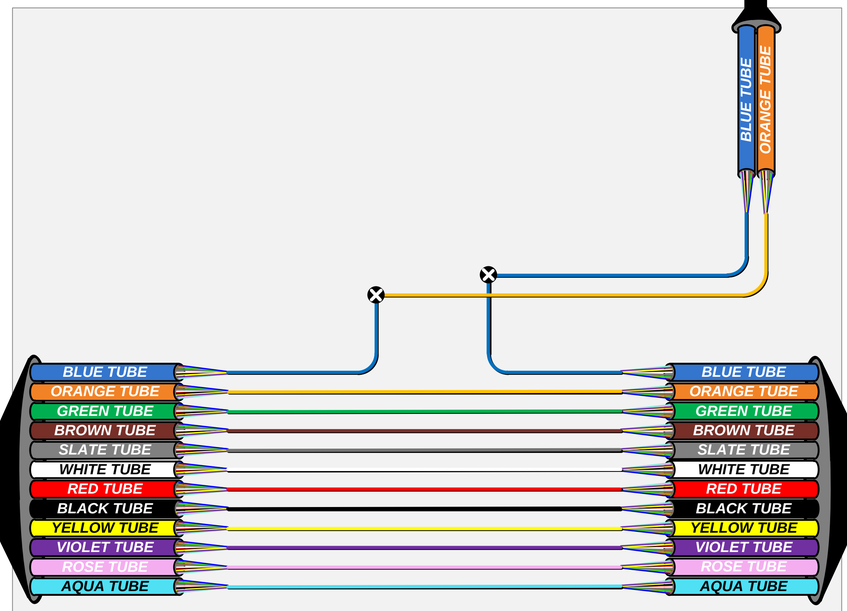
ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 1046: BROAD ST. AT HAGUE AVE.
SEE SHEET 649

PORT 6: INT# 4134: GREAT WESTERN SHOPPING CENTER / SOLDANO BLVD. AT WILSON RD.
SEE SHEET 637



PATCH PANEL ENCLOSURE – 24 TERMINATION



TO:
INT# 4134: GREAT WESTERN SHOPPING CENTER / SOLDANO BLVD. AT WILSON RD.
SEE SHEET 637

TO:
INT# 1048: BROAD ST. AT ROYS AVE.
SEE SHEET 648

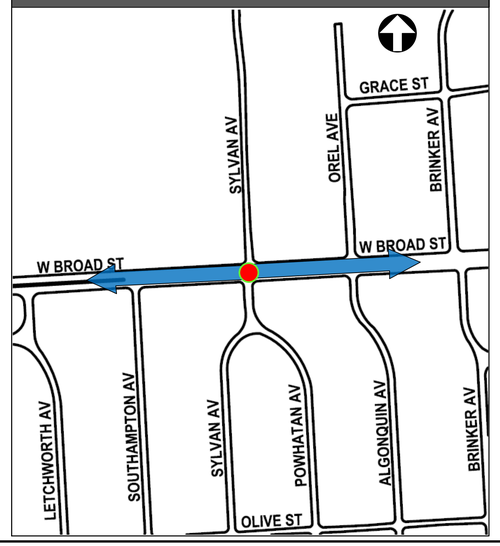
3 Cable Entries
24 Fusion Splices
11 Buffer Tubes Passed Through Unspliced

CLAMSHELL, 288 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 1050
REFER TO SHEET 64 FOR CONSTRUCTION PLAN DETAILS

CIP: 540007 - 100005
PID NUMBER: 14522

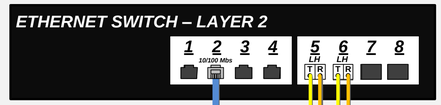
INT# 1050: BROAD ST. AT SYLVAN AVE.
COMMUNICATIONS DIAGRAM

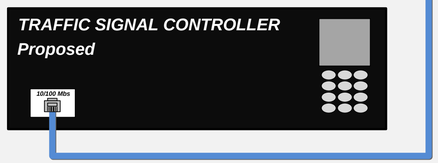
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

647
911

630-647.vsd - 1050 layout – last saved 5/2/2017 3:43:39 PM – printed: 3/11/2016 11:58:01 AM

TRAFFIC SIGNAL CABINET ASSEMBLY

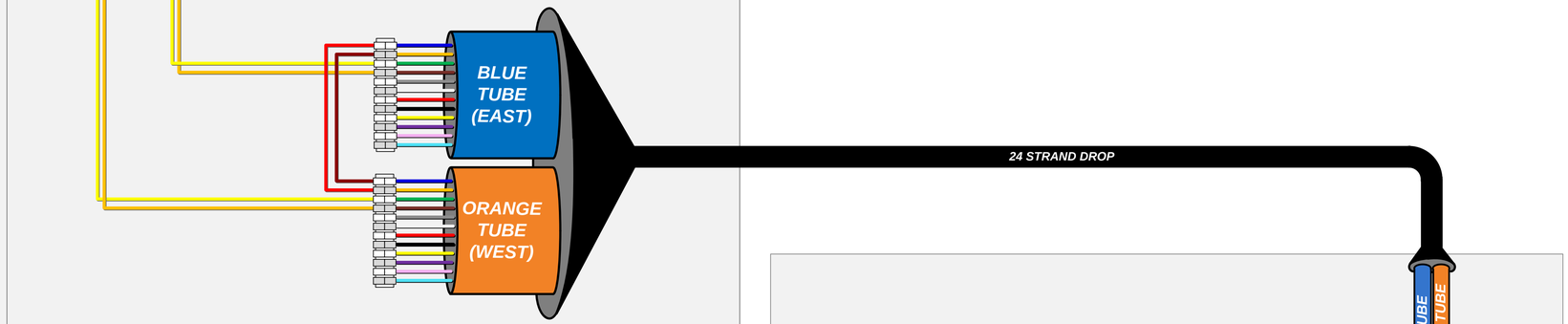




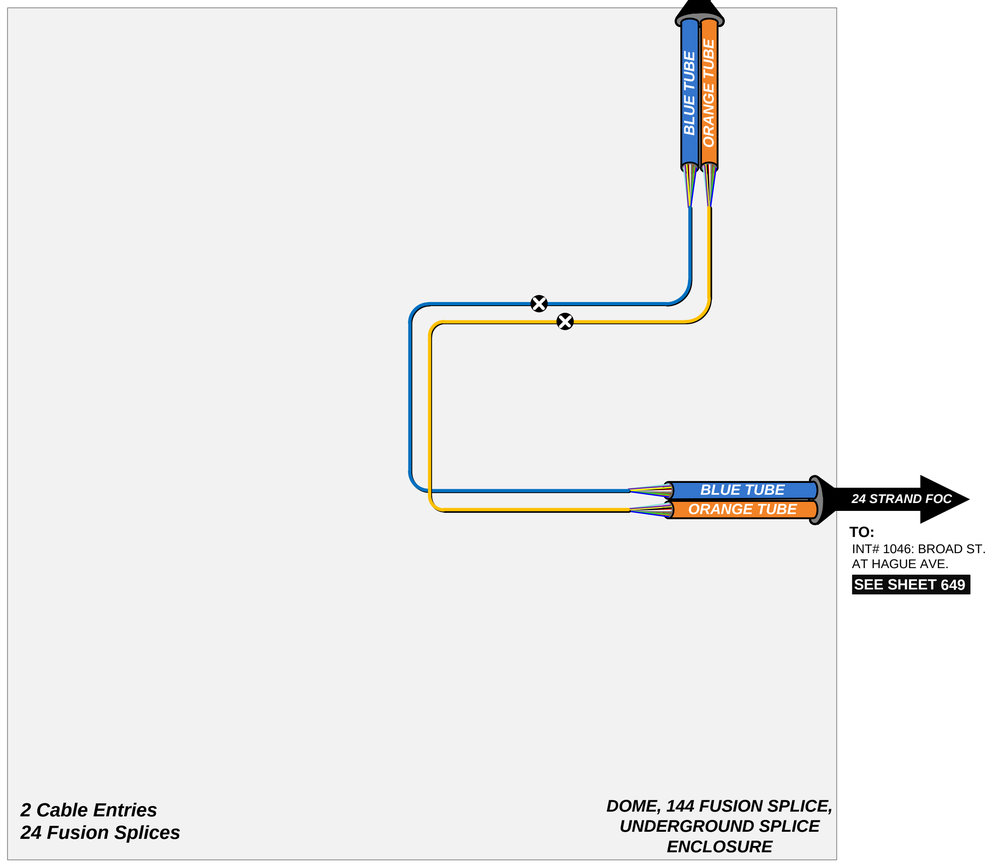
ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 1045: BROAD ST. AT OGDEN AVE.
SEE SHEET 651

PORT 6: INT# 4134: GREAT WESTERN SHOPPING CENTER / SOLDANO BLVD. AT WILSON RD.
SEE SHEET 637



PATCH PANEL ENCLOSURE – 24 TERMINATION



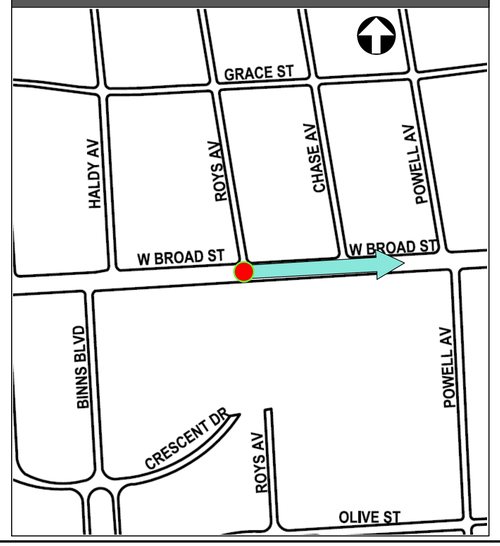
2 Cable Entries
24 Fusion Splices

DOME, 144 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE

LEGEND

- 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 – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 1048

REFER TO SHEET 68 FOR CONSTRUCTION PLAN DETAILS

CIP: 540007 - 100005
PID NUMBER: 14522

INT# 1048: BROAD ST. AT ROYS AVE.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

648-663.vsd - 1048 layout - last saved 5/2/2017 3:45:31 PM - printed: 3/11/2016 12:02:41 PM

TRAFFIC SIGNAL CABINET ASSEMBLY

ETHERNET SWITCH PORT DESTINATION

PORT 6: INT# 1050: BROAD ST. AT SYLVAN AVE.
SEE SHEET 647

PORT 7: PROPOSED COMMUNICATION NODE# 070094.1:
IR-70 AT WILSON RD.
SEE SHEET 865

ETHERNET SWITCH – LAYER 2

1 2 3 4 (10/100 Mbs) 5 6 LH (T R) 7 LH (T R) 8

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

PATCH PANEL ENCLOSURES: (2) - 24 TERMINATION

COMPOSITE CCTV CABLE

BLUE TUBE (EAST)
ORANGE TUBE (WEST)
BLUE TUBE (NORTH)
ORANGE TUBE (SPARE)

PROPOSED CCTV

24 STRAND DROP

24 STRAND DROP

24SMF CABLE ODOT (Future)

CAP AND COIL 150' OF 24SMF FIBER OPTIC CABLE FOR FUTURE ODOT CONNECTION

144 STRAND FOC

TO:
INT# 1047: HAGUE AVE.
AT STEELE AVE.
SEE SHEET 646

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

ODOT FIBERS INSET DETAIL A
SEE SHEET 650

24 STRAND FOC

TO:
INT# 1048: BROAD ST.
AT ROYS AVE.
SEE SHEET 648

BLUE TUBE
ORANGE TUBE

144 STRAND FOC

TO:
INT# 1045: BROAD ST.
AT OGDEN AVE.
SEE SHEET 651

144 STRAND FOC

TO:
INT# 1050: BROAD ST.
AT SYLVAN AVE.
SEE SHEET 647

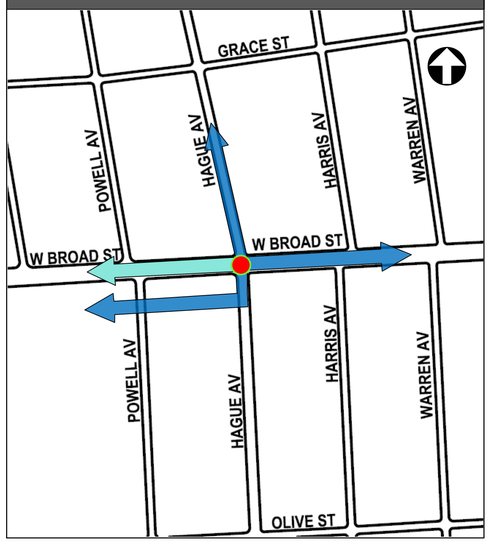
7 Cable Entries
198 Fusion Splices
9 Coiled Buffer Tubes
24 Coiled Single Fibers

DOME, 800 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

LEGEND

- 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 – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 1046
REFER TO SHEET 68 FOR CONSTRUCTION PLAN DETAILS

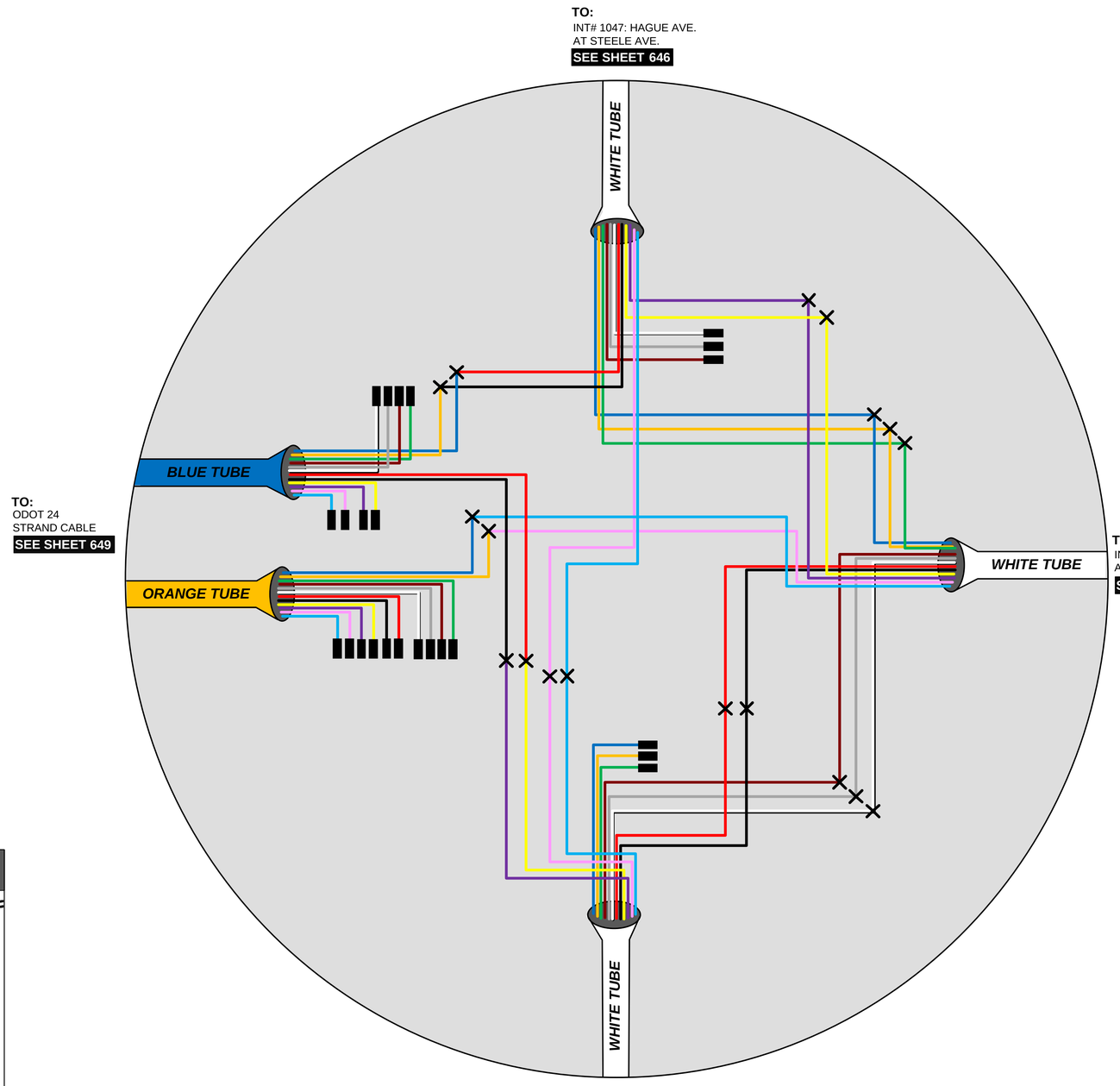
CIP: 540007 - 100005
PID NUMBER: 14522

INT# 1046: BROAD ST. AT HAGUE AVE.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

649
911

648-663.vsd - 1046 layout ~ last saved 5/2/2017 3:45:31 PM ~ printed: 3/11/2016 12:02:41 PM

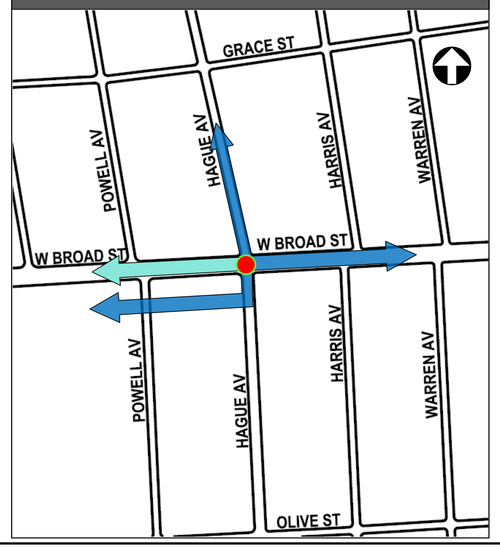


INSET DETAIL A
SEE SHEET 649

LEGEND

- 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 – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 1046
REFER TO SHEET 68 FOR CONSTRUCTION PLAN DETAILS

CIP: 540007 - 100005
PID NUMBER: 14522

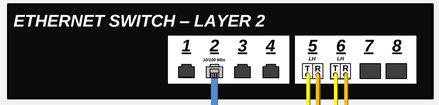
INT# 1046: BROAD ST. AT HAGUE AVE.
COMMUNICATIONS DIAGRAM

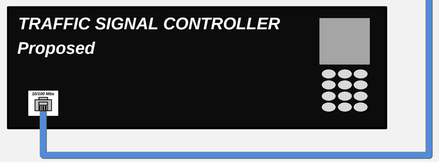
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

650
911

648-663.vsd - 1046-ODOT layout ~ last saved 5/2/2017 3:45:31 PM ~ printed: 3/11/2016 12:02:41 PM

TRAFFIC SIGNAL CABINET ASSEMBLY

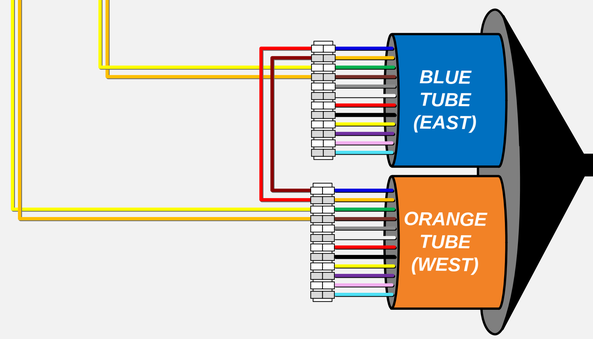




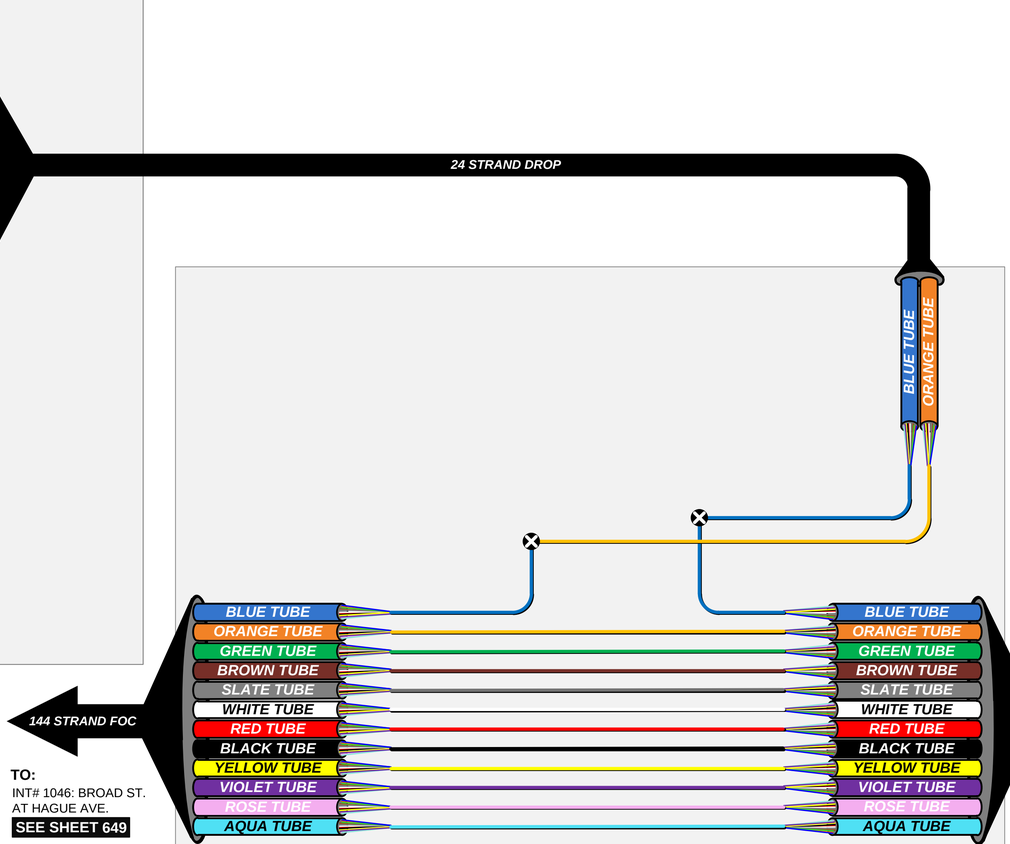
ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 1042: BROAD ST. AT OAKLEY AVE.
SEE SHEET 653

PORT 6: INT# 1048: BROAD ST. AT ROYS AVE.
SEE SHEET 648



PATCH PANEL ENCLOSURE – 24 TERMINATION



TO:
INT# 1046: BROAD ST. AT HAGUE AVE.
SEE SHEET 649

TO:
INT# 1043: BROAD ST. AT EUREKA AVE.
SEE SHEET 652

3 Cable Entries
24 Fusion Splices
11 Buffer Tubes Passed Through Unspliced

DOME, 144 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE

LEGEND

- 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 – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX — GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 1045

REFER TO SHEET 70 FOR CONSTRUCTION PLAN DETAILS

CIP: 540007 - 100005
PID NUMBER: 14522

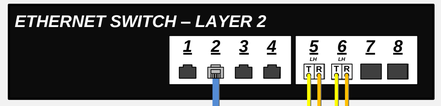
INT# 1045: BROAD ST. AT OGDEN AVE.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

651
911

648-663.vsd - 1045 layout - last saved 5/2/2017 3:45:31 PM - printed: 3/11/2016 12:02:41 PM

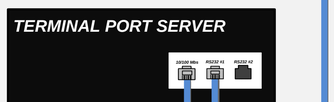
TRAFFIC SIGNAL CABINET ASSEMBLY

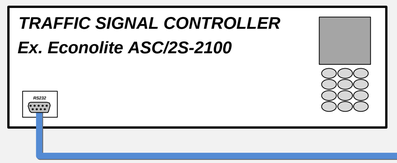


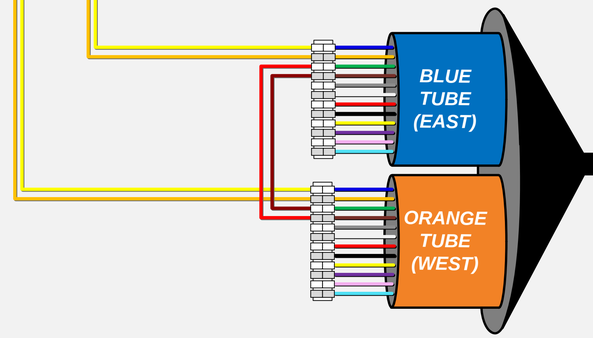
ETHERNET SWITCH PORT DESTINATION

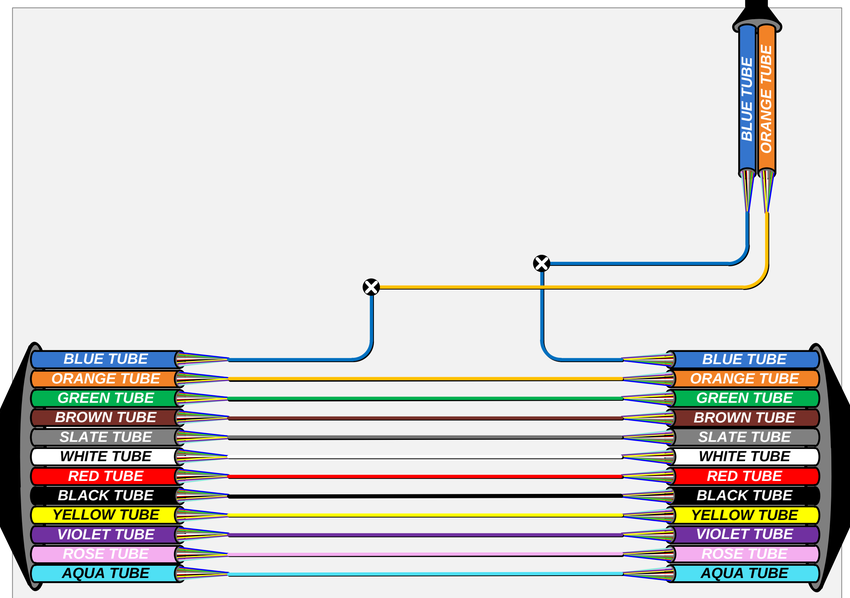
PORT 5: INT# 1041: BROAD ST. AT HIGHLAND AVE.
SEE SHEET 654

PORT 6: INT# 1046: BROAD ST. AT HAGUE AVE.
SEE SHEET 649









TO:
INT# 1045: BROAD ST.
AT OGDEN AVE.
SEE SHEET 651

TO:
INT# 1042: BROAD ST.
AT OAKLEY AVE.
SEE SHEET 653

3 Cable Entries
24 Fusion Splices
11 Buffer Tubes Passed Through Unspliced

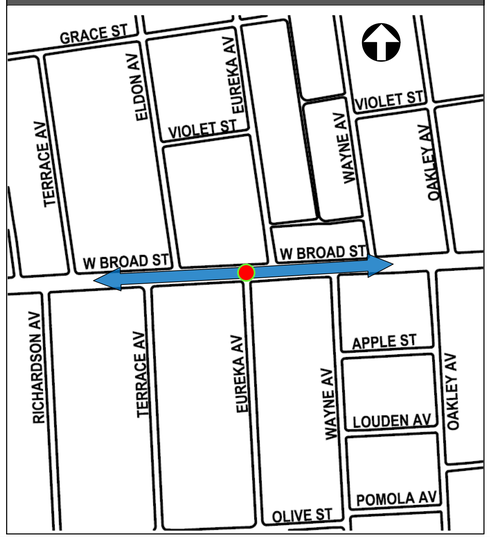
DOME, 144 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE

PATCH PANEL ENCLOSURE – 24 TERMINATION

LEGEND

- 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 – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 1043
REFER TO SHEET 72 FOR CONSTRUCTION PLAN DETAILS

CIP: 540007 - 100005
PID NUMBER: 14522

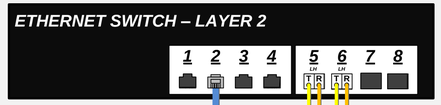
INT# 1043: BROAD ST. AT EUREKA AVE.
COMMUNICATIONS DIAGRAM

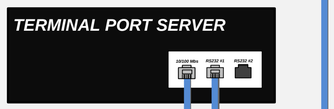
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

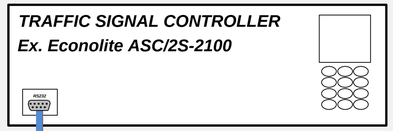
652
911

648-663.vsd - 1043 layout ~ last saved 5/2/2017 3:45:31 PM ~ printed: 3/11/2016 12:02:41 PM

TRAFFIC SIGNAL CABINET ASSEMBLY



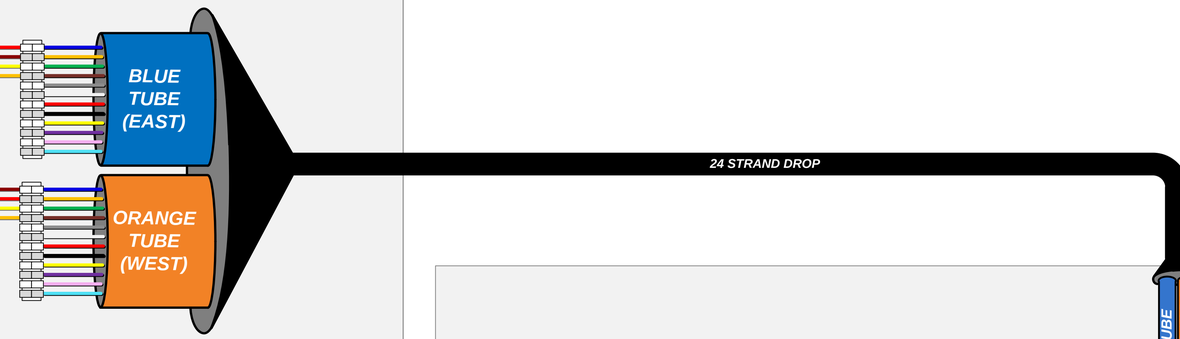




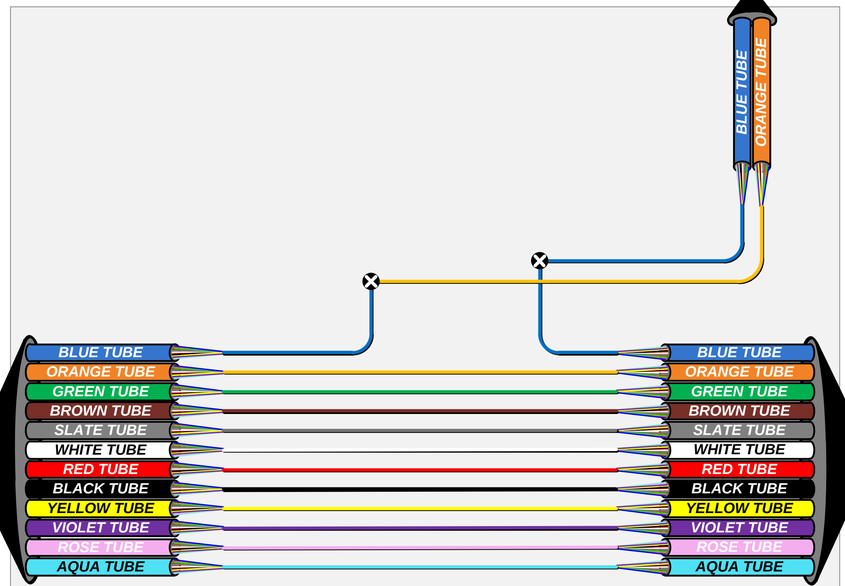
ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 1040: BROAD ST. AT MIDLAND AVE.
SEE SHEET 655

PORT 6: INT# 1045: BROAD ST. AT OGDEN AVE.
SEE SHEET 651



PATCH PANEL ENCLOSURE – 24 TERMINATION



TO:
INT# 1043: BROAD ST.
AT EUREKA AVE.
SEE SHEET 652

TO:
INT# 1041: BROAD ST.
AT HIGHLAND AVE.
SEE SHEET 654

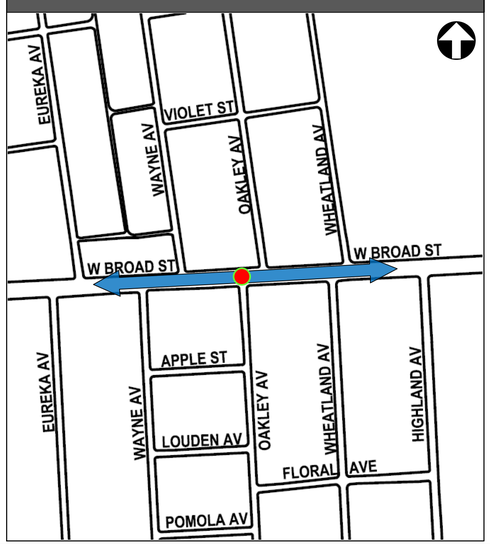
3 Cable Entries
24 Fusion Splices
11 Buffer Tubes Passed Through Unspliced

DOME, 144 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE

LEGEND

- 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 – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 1042
REFER TO SHEET 73 FOR CONSTRUCTION PLAN DETAILS

CIP: 540007 - 100005
PID NUMBER: 14522

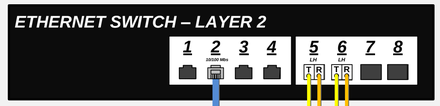
INT# 1042: BROAD ST. AT OAKLEY AVE.
COMMUNICATIONS DIAGRAM

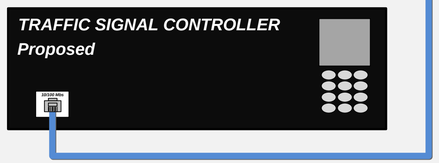
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

653
911

648-663.vsd - 1042 layout ~ last saved 5/2/2017 3:45:31 PM ~ printed: 3/11/2016 12:02:41 PM

TRAFFIC SIGNAL CABINET ASSEMBLY

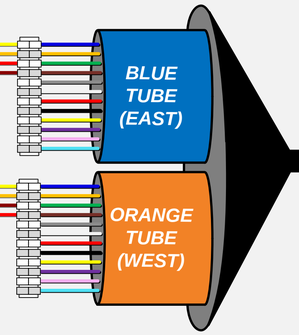


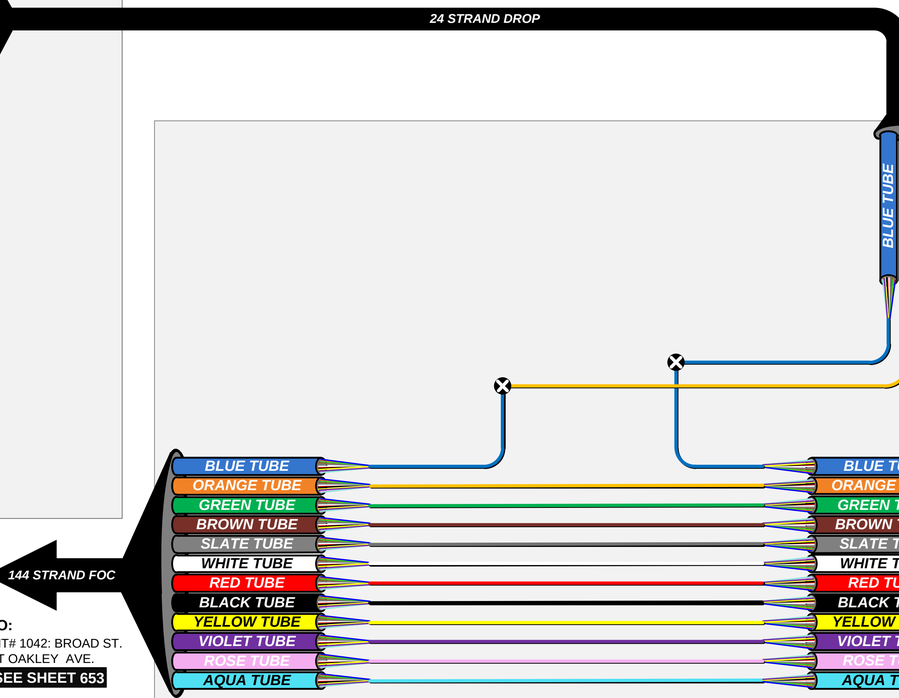


ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 1044: BROAD ST. AT WHITETHORNE AVE.
SEE SHEET 656

PORT 6: INT# 1043: BROAD ST. AT EUREKA AVE.
SEE SHEET 652





TO:
INT# 1042: BROAD ST. AT OAKLEY AVE.
SEE SHEET 653

TO:
INT# 1040: BROAD ST. AT MIDLAND AVE.
SEE SHEET 655

3 Cable Entries
24 Fusion Splices
11 Buffer Tubes Passed Through Unspliced

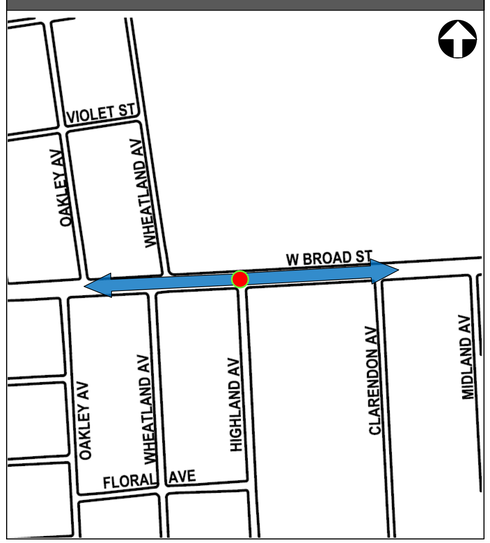
DOME, 144 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE

PATCH PANEL ENCLOSURE – 24 TERMINATION

LEGEND

- 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 – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX — GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 1041
REFER TO SHEET 74 FOR CONSTRUCTION PLAN DETAILS

CIP: 540007 - 100005
PID NUMBER: 14522

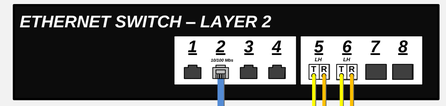
INT# 1041: BROAD ST. AT HIGHLAND AVE.
COMMUNICATIONS DIAGRAM

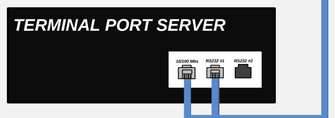
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

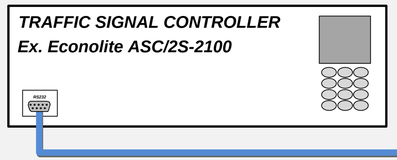
654
911

648-663.vsd - 1041 layout ~ last saved 5/2/2017 3:45:31 PM ~ printed: 3/11/2016 12:02:41 PM

TRAFFIC SIGNAL CABINET ASSEMBLY



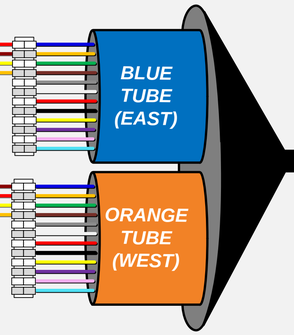




ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 1039: BELVIDERE AVE. AT BROAD ST.
SEE SHEET 657

PORT 6: INT# 1042: BROAD ST. AT OAKLEY AVE.
SEE SHEET 653







TO:
INT# 1041: BROAD ST.
AT HIGHLAND AVE.
SEE SHEET 654

TO:
INT# 1044: BROAD ST.
AT WHITETHORNE AVE.
SEE SHEET 656

PATCH PANEL ENCLOSURE – 24 TERMINATION

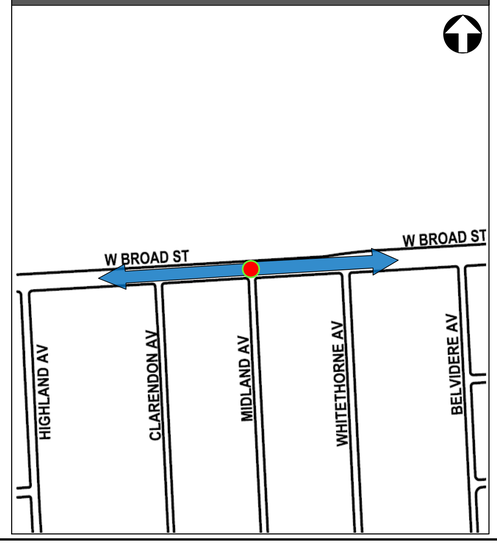
3 Cable Entries
24 Fusion Splices
11 Buffer Tubes Passed Through Unspliced

CLAMSHELL, 144 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE

LEGEND

- 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 – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 1040
REFER TO SHEET 75 FOR CONSTRUCTION PLAN DETAILS

CIP: 540007 - 100005
PID NUMBER: 14522

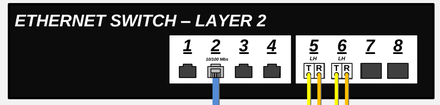
INT# 1040: BROAD ST. AT MIDLAND AVE.
COMMUNICATIONS DIAGRAM

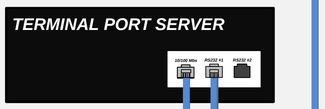
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

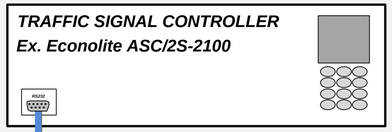
655
911

648-663.vsd - 1040 layout ~ last saved 5/2/2017 3:45:31 PM ~ printed: 3/11/2016 12:02:41 PM

TRAFFIC SIGNAL CABINET ASSEMBLY







ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 1038: BROAD ST. AT LECHNER AVE.
SEE SHEET 658

PORT 6: INT# 1041: BROAD ST. AT HIGHLAND AVE.
SEE SHEET 654







TO:
INT# 1040: BROAD ST. AT MIDLAND AVE.
SEE SHEET 655

TO:
INT# 1039: BELVIDERE AVE. AT BROAD ST.
SEE SHEET 657

PATCH PANEL ENCLOSURE – 24 TERMINATION

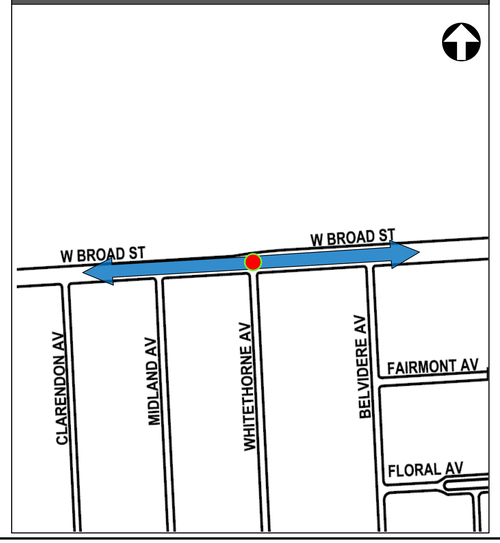
3 Cable Entries
24 Fusion Splices
11 Buffer Tubes Passed Through Unspliced

CLAMSHELL, 144 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE

LEGEND

- 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 – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 1044
REFER TO SHEET 75 FOR CONSTRUCTION PLAN DETAILS

CIP: 540007 - 100005
PID NUMBER: 14522

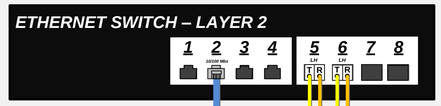
INT# 1044: BROAD ST. AT WHITETHORNE AVE.
COMMUNICATIONS DIAGRAM

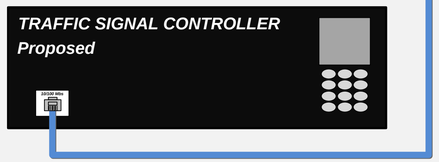
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

656
911

648-663.vsd - 1044 layout ~ last saved 5/2/2017 3:45:31 PM ~ printed: 3/11/2016 12:02:41 PM

TRAFFIC SIGNAL CABINET ASSEMBLY

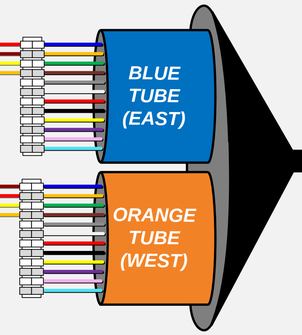




ETHERNET SWITCH PORT DESTINATION

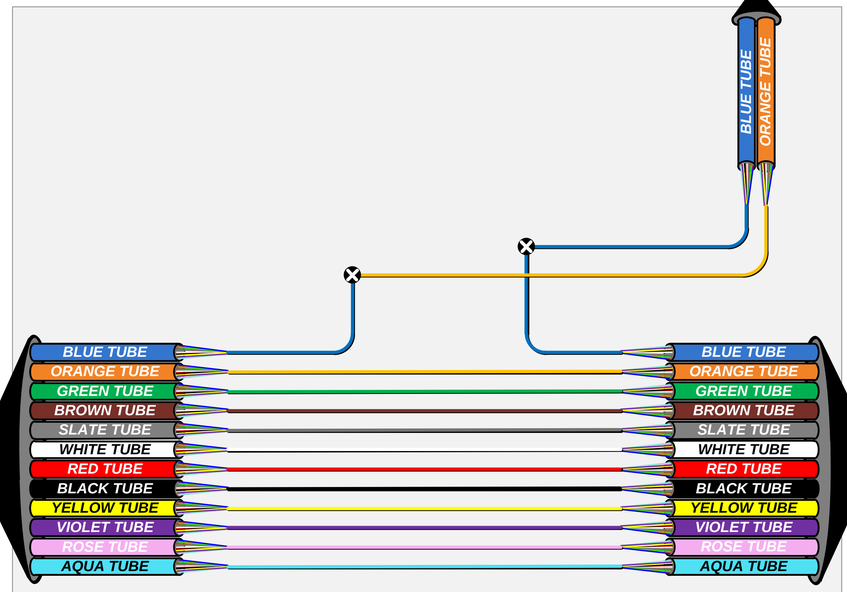
PORT 5: INT# 1012: BROAD ST. AT I-70 EB RAMPS
SEE SHEET 659

PORT 6: INT# 1040: BROAD ST. AT MIDLAND AVE.
SEE SHEET 655



24 STRAND DROP

PATCH PANEL ENCLOSURE – 24 TERMINATION



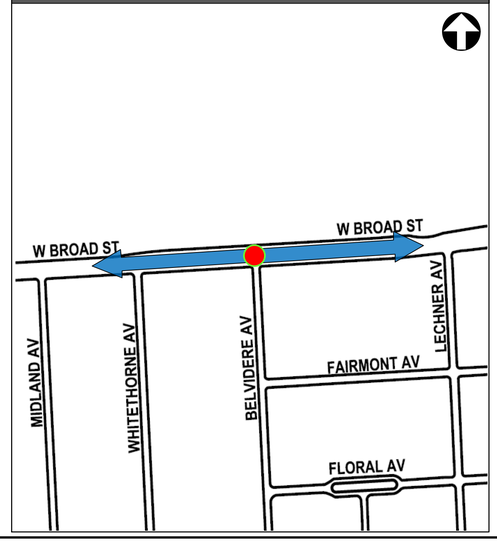
3 Cable Entries
24 Fusion Splices
11 Buffer Tubes Passed Through Unspliced

CLAMSHELL, 144 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE

LEGEND

- 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 – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 1039

REFER TO SHEET 77 FOR CONSTRUCTION PLAN DETAILS

CIP: 540007 - 100005
PID NUMBER: 14522

INT# 1039: BELVIDERE AVE. AT BROAD ST.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

657
911

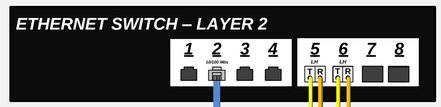
648-663.vsd - 1039 layout ~ last saved 5/2/2017 3:45:31 PM ~ printed: 3/11/2016 12:02:41 PM

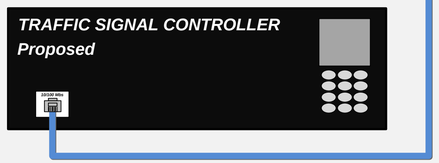
TRAFFIC SIGNAL CABINET ASSEMBLY

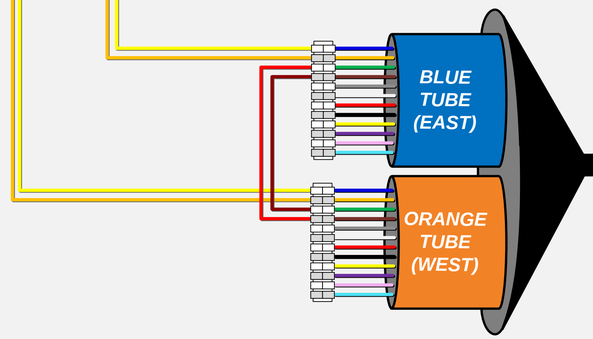
ETHERNET SWITCH PORT DESTINATION

PORT 5: PROPOSED COMMUNICATION NODE# 070097.3: BROAD ST. AT IR-70
SEE SHEET 867

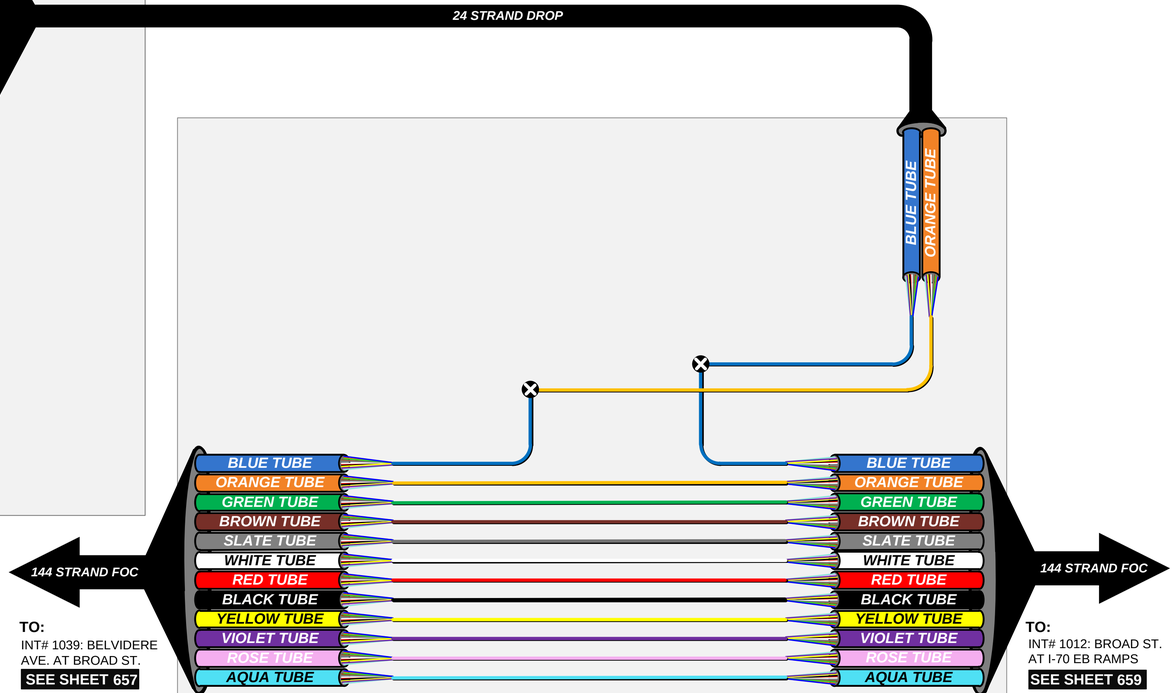
PORT 6: INT# 1044: BROAD ST. AT WHITETHORNE AVE.
SEE SHEET 656







PATCH PANEL ENCLOSURE – 24 TERMINATION



TO:
INT# 1039: BELVIDERE AVE. AT BROAD ST.
SEE SHEET 657

TO:
INT# 1012: BROAD ST. AT I-70 EB RAMPS
SEE SHEET 659

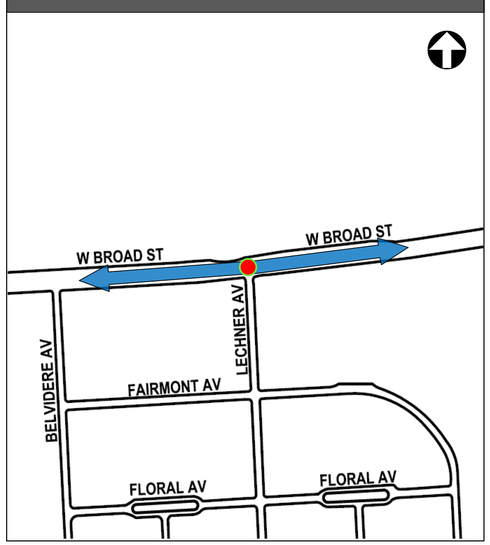
3 Cable Entries
24 Fusion Splices
11 Buffer Tubes Passed Through Unspliced

CLAMSHELL, 144 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE

LEGEND

- 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 – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 1038
REFER TO SHEET 77 FOR CONSTRUCTION PLAN DETAILS

CIP: 540007 - 100005
PID NUMBER: 14522

INT# 1038: BROAD ST. AT LECHNER AVE.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

658
911

648-663.vsd - 1038 layout ~ last saved 5/2/2017 3:45:31 PM ~ printed: 3/11/2016 12:02:41 PM

TRAFFIC SIGNAL CABINET ASSEMBLY

ETHERNET SWITCH – LAYER 2

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

ETHERNET SWITCH PORT DESTINATION

PORT 5: PROPOSED COMMUNICATION NODE# 070097.3: BROAD ST. AT IR-70
SEE SHEET 867

PORT 6: INT# 1039: BELVIDERE AVE. AT BROAD ST.
SEE SHEET 657

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# 1038: BROAD ST. AT LECHNER AVE.
SEE SHEET 658

144 STRAND FOC

TO:
PROPOSED COMMUNICATION NODE# 070097.3: BROAD ST. AT IR-70
SEE SHEET 868

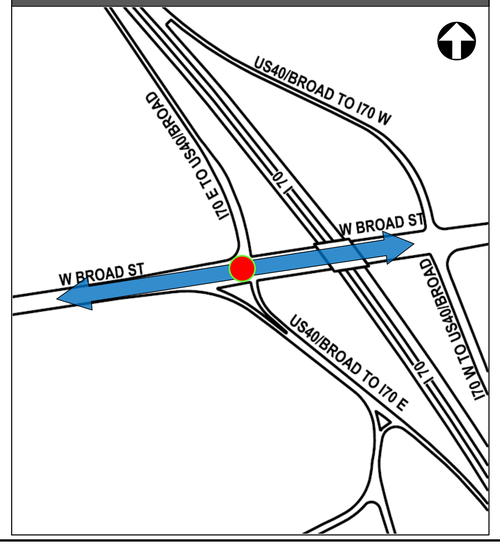
3 Cable Entries
24 Fusion Splices
11 Buffer Tubes Passed Through Unspliced

CLAMSHELL, 144 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE

LEGEND

- 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 – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 1012
REFER TO SHEET 78 FOR CONSTRUCTION PLAN DETAILS

CIP: 540007 - 100005
PID NUMBER: 14522

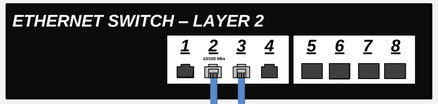
INT# 1012: BROAD ST. AT I-70 EB RAMPS
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

659
911

648-663.vsd - 1012 layout ~ last saved 5/2/2017 3:45:31 PM ~ printed: 3/11/2016 12:02:41 PM

TRAFFIC SIGNAL CABINET ASSEMBLY



ETHERNET SWITCH PORT DESTINATION

PORT 3: PROPOSED COMMUNICATION NODE# 070097.3: BROAD ST. AT IR-70
SEE SHEET 867

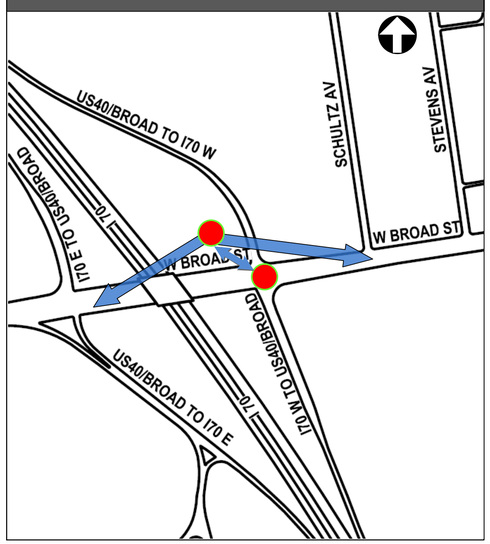


TO:
PROPOSED
COMMUNICATION
NODE# 070097.3:
BROAD ST. AT IR-70
SEE SHEET 868

LEGEND

- 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 – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- *LH/ZX* (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 1011
REFER TO SHEET 79 FOR CONSTRUCTION PLAN DETAILS

CIP: 540007 - 100005
PID NUMBER: 14522

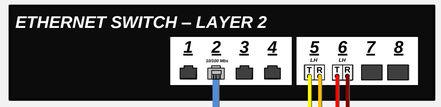
INT# 1011: BROAD ST. AT I-70 WB RAMPS
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

660
911

648-663.vsd - 1011 layout ~ last saved 5/2/2017 3:45:31 PM ~ printed: 3/11/2016 12:02:41 PM

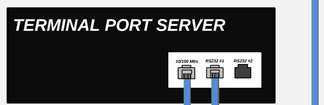
TRAFFIC SIGNAL CABINET ASSEMBLY

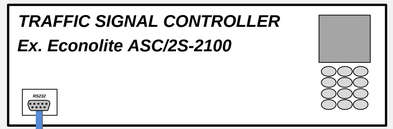


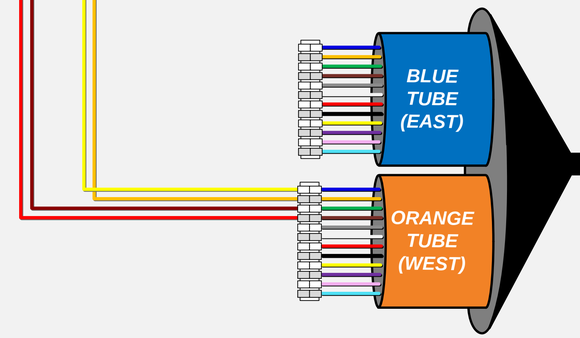
ETHERNET SWITCH PORT DESTINATION

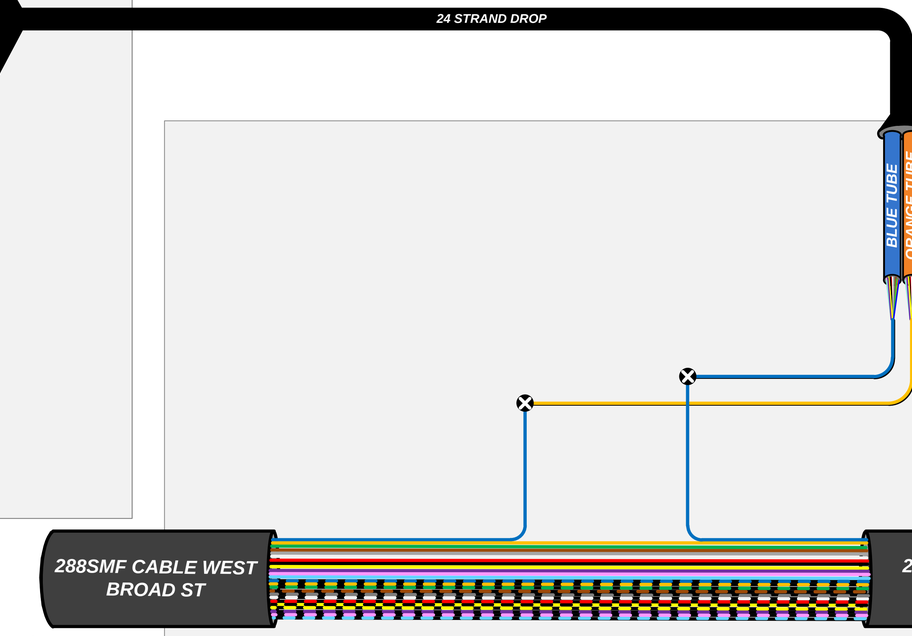
PORT 5: PROPOSED COMMUNICATION NODE# 070097.3: BROAD ST. AT IR-70
SEE SHEET 867

PORT 6: PROPOSED COMMUNICATION NODE# 070097.3: BROAD ST. AT IR-70
SEE SHEET 867









PATCH PANEL ENCLOSURE – 24 TERMINATION

TO:
PROPOSED COMMUNICATION NODE# 070097.3: BROAD ST. AT IR-70
SEE SHEET 868

TO:
INT# 1010: BROAD ST. AT CENTRAL AVE.
SEE SHEET 662

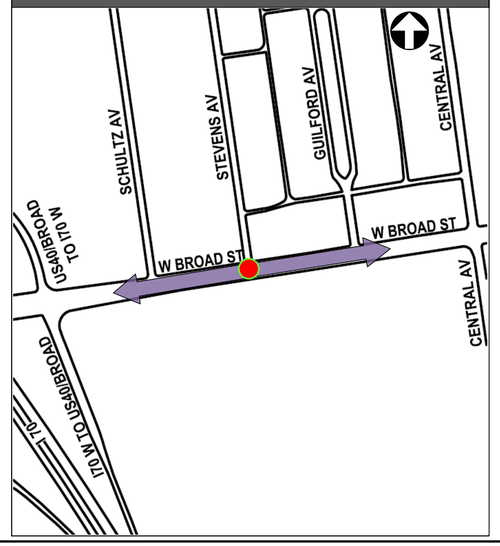
3 Cable Entries
24 Fusion Splices
23 Buffer Tubes Passed Through Unspliced

CLAMSHELL, 288 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 1022
REFER TO SHEET 80 FOR CONSTRUCTION PLAN DETAILS

CIP: 540007 - 100005
PID NUMBER: 14522

INT# 1022: BROAD ST. AT STEVENS AVE.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

661
911

648-663.vsd - 1022 layout ~ last saved 5/2/2017 3:45:31 PM ~ printed: 3/11/2016 12:02:41 PM

TRAFFIC SIGNAL CABINET ASSEMBLY

ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 1013: CENTRAL AVE. AT TOWN ST.
SEE SHEET 671

PORT 6: INT# 1007: BROAD ST. AT GLENWOOD AVE.
SEE SHEET 665

ETHERNET SWITCH – LAYER 2

1 2 3 4 5 6 7 8

TRAFFIC SIGNAL CONTROLLER
Proposed

BLUE TUBE (NORTH)

ORANGE TUBE (SOUTH)

BLUE TUBE (EAST)

ORANGE TUBE (WEST)

PATCH PANEL ENCLOSURES: (2) - 24 TERMINATION

24 STRAND DROP

24 STRAND DROP

144 STRAND FOC

TO:
INT# 4133: CENTRAL AVE. AT McKINLEY AVE.
SEE SHEET 689

6 Cable Entries
312 Fusion Splices
24 Coiled Buffer Tubes

BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE
RED TUBE
BLACK TUBE
YELLOW TUBE
VIOLET TUBE
ROSE TUBE
AQUA TUBE

288SMF CABLE WEST BROAD ST

288SMF CABLE EAST BROAD ST

TO:
INT# 1022: BROAD ST. AT STEVENS AVE.
SEE SHEET 661

TO:
INT# 1009: BROAD ST. AT CHICAGO AVE.
SEE SHEET 664

ODOT FIBERS INSET DETAIL A
SEE SHEET 663

DOME, 800 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

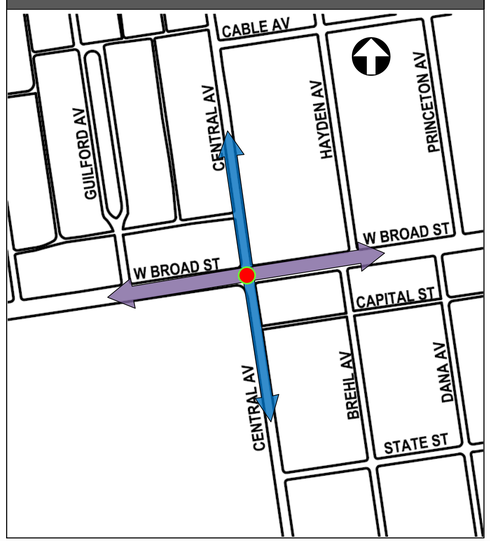
144 STRAND FOC

TO:
INT# 1013: CENTRAL AVE. AT TOWN ST.
SEE SHEET 671

LEGEND

- 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 – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 1010
REFER TO SHEET 81 FOR CONSTRUCTION PLAN DETAILS

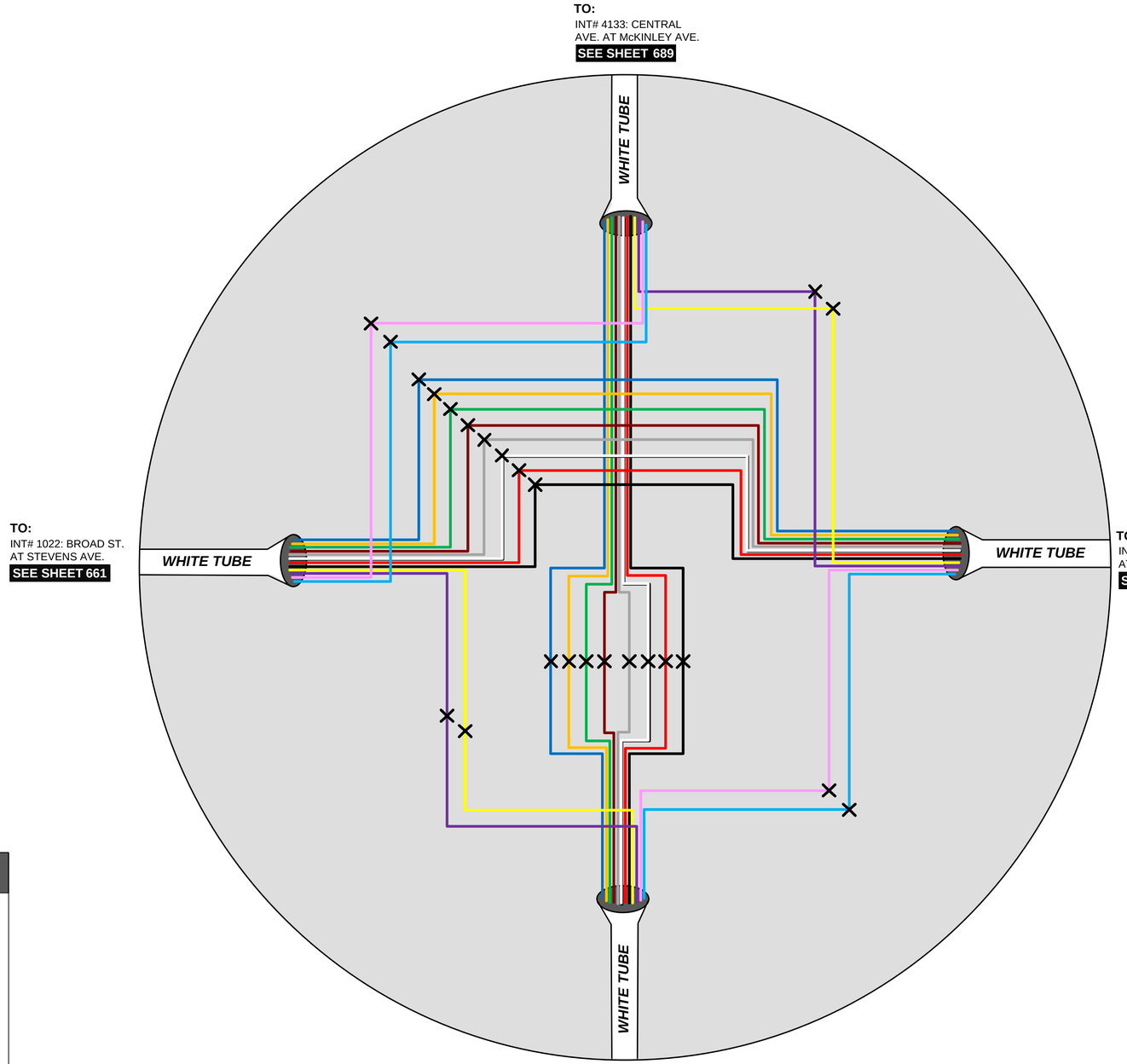
CIP: 540007 - 100005
PID NUMBER: 14522

INT# 1010: BROAD ST. AT CENTRAL AVE.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

662
911

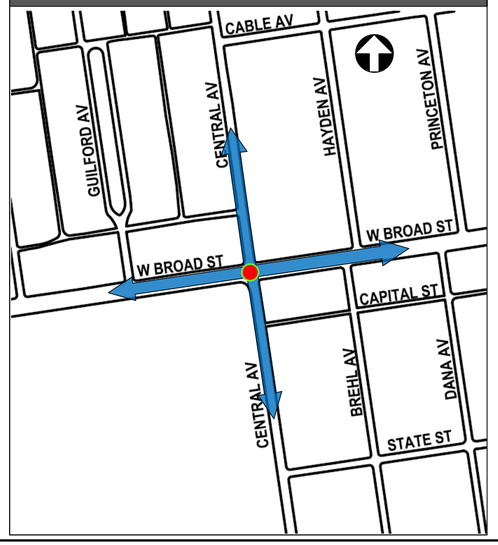
648-663.vsd - 1010 layout – last saved 5/2/2017 3:45:31 PM – printed: 3/11/2016 12:02:41 PM



LEGEND

- 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 – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

KEY PLAN



INSET DETAIL A
SEE SHEET 662

INTERSECTION 1010
REFER TO SHEET 81 FOR CONSTRUCTION PLAN DETAILS

CIP: 540007 - 100005
PID NUMBER: 14522

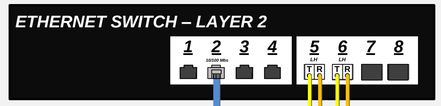
INT# 1010: BROAD ST. AT CENTRAL AVE.
COMMUNICATIONS DIAGRAM

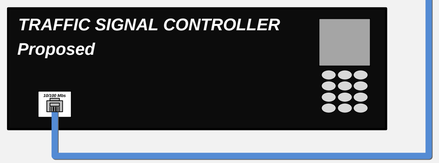
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

663
911

648-663.vsd - 1010-ODOT layout - last saved 5/2/2017 3:45:31 PM - printed: 3/11/2016 12:02:41 PM

TRAFFIC SIGNAL CABINET ASSEMBLY

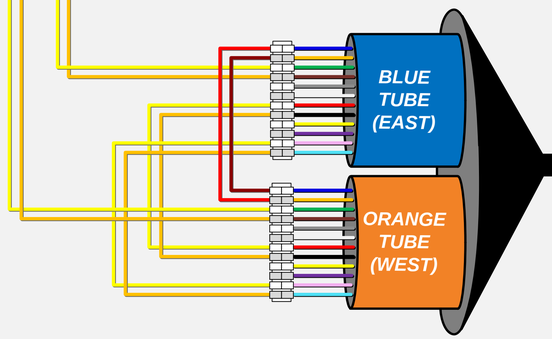


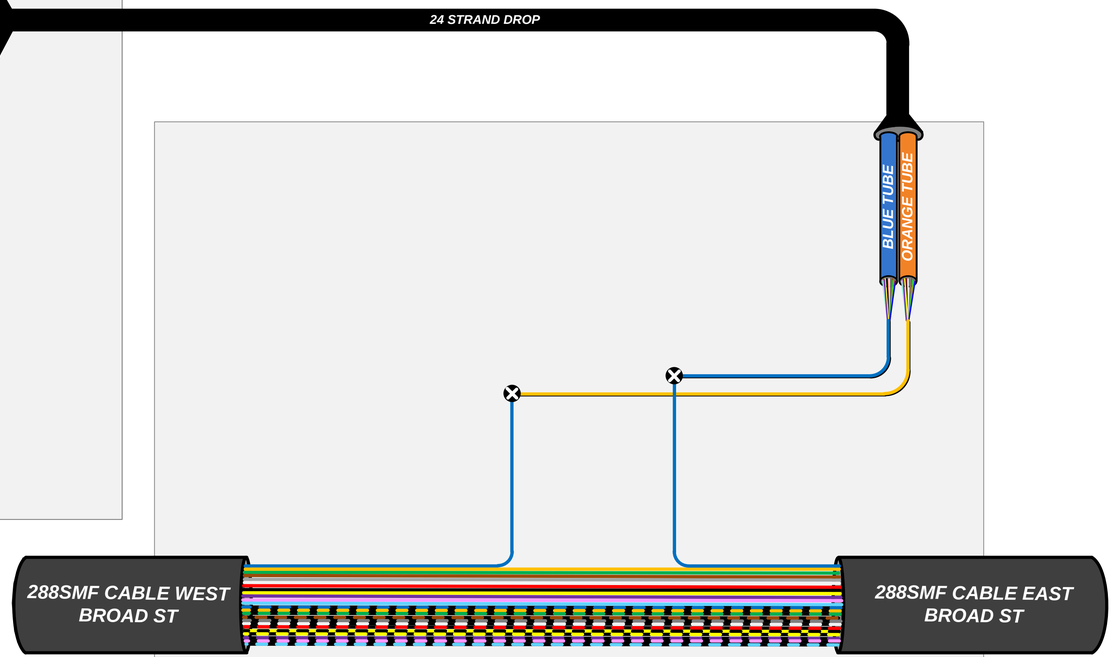


ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 1006: BROAD ST. AT HAWKES AVE.
SEE SHEET 666

PORT 6: INT# 1059: GREEN ST. AT TOWN ST.
SEE SHEET 673





PATCH PANEL ENCLOSURE – 24 TERMINATION

TO:
INT# 1010: BROAD ST. AT CENTRAL AVE.
SEE SHEET 662

TO:
INT# 1007: BROAD ST. AT GLENWOOD AVE.
SEE SHEET 665

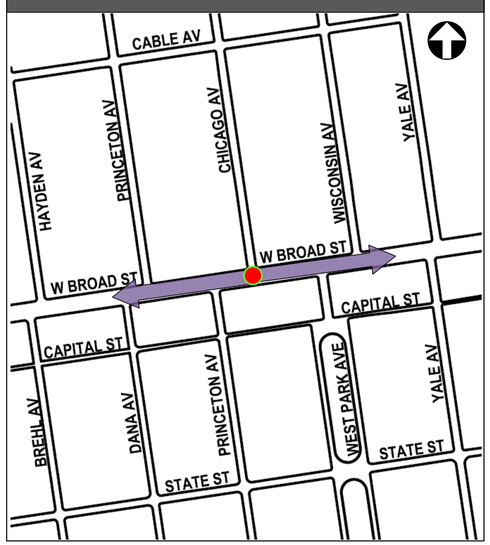
3 Cable Entries
24 Fusion Splices
23 Buffer Tubes Passed Through Unspliced

DOME, 144 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE

LEGEND

- 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 – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- *LH/ZX* GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 1009
REFER TO SHEET 83 FOR CONSTRUCTION PLAN DETAILS

CIP: 540007 - 100005
PID NUMBER: 14522

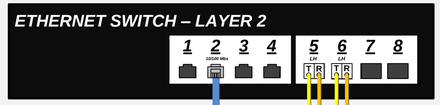
INT# 1009: BROAD ST. AT CHICAGO AVE.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

664
911

664-673.vsd - 1009 layout ~ last saved 5/2/2017 3:47:45 PM ~ printed: 3/11/2016 12:04:04 PM

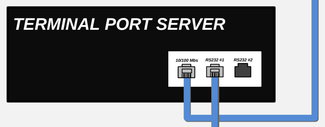
TRAFFIC SIGNAL CABINET ASSEMBLY

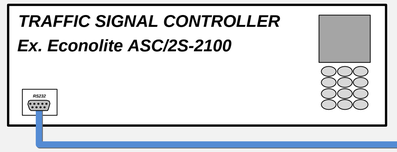


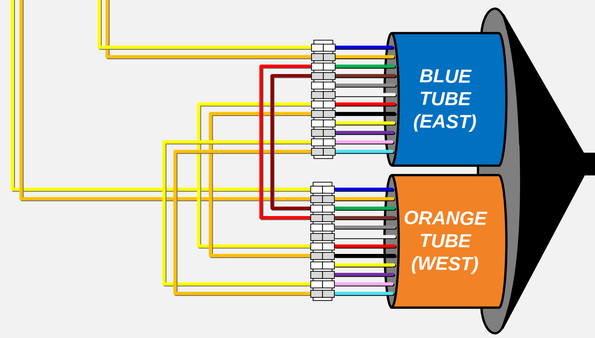
ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 1005: BROAD ST. AT DAVIS AVE.
SEE SHEET 667

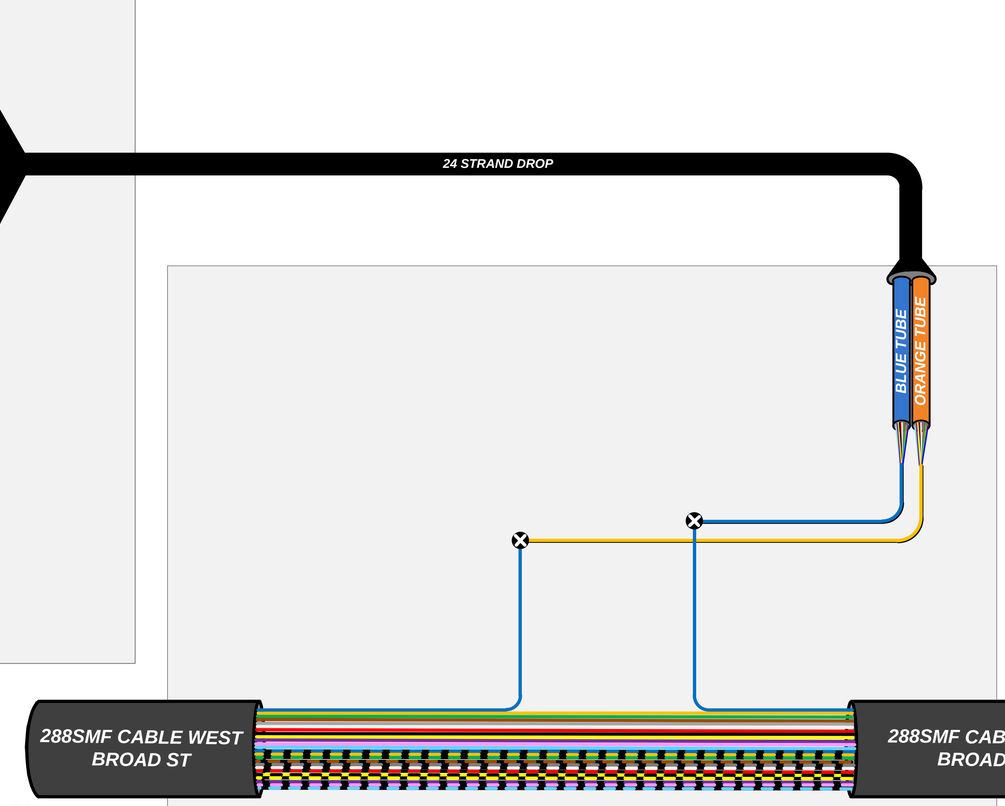
PORT 6: INT# 1010: BROAD ST. AT CENTRAL AVE.
SEE SHEET 662







PATCH PANEL ENCLOSURE – 24 TERMINATION



TO:
INT# 1009: BROAD ST. AT CHICAGO AVE.
SEE SHEET 664

TO:
INT# 1006: BROAD ST. AT HAWKES AVE.
SEE SHEET 666

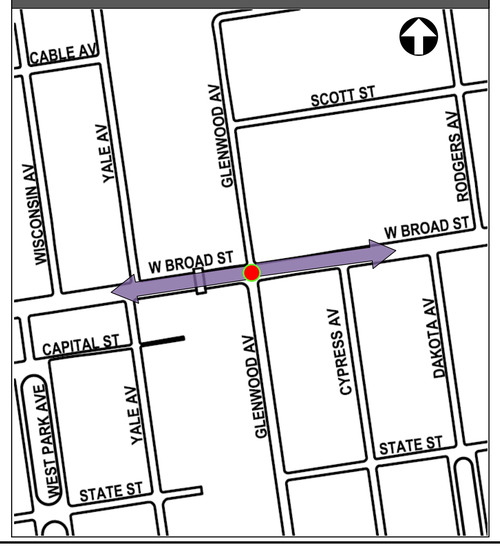
3 Cable Entries
24 Fusion Splices
23 Buffer Tubes Passed Through Unspliced

DOME, 144 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE

LEGEND

- 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 – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX — GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 1007
REFER TO SHEET 84 FOR CONSTRUCTION PLAN DETAILS

CIP: 540007 - 100005
PID NUMBER: 14522

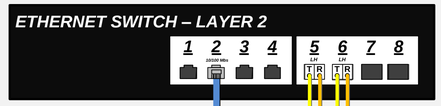
INT# 1007: BROAD ST. AT GLENWOOD AVE.
COMMUNICATIONS DIAGRAM

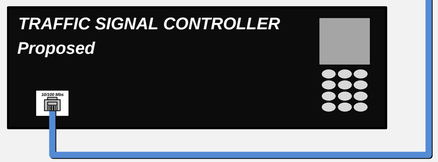
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

665
911

664-673.vsd - 1007 layout ~ last saved 5/2/2017 3:47:45 PM ~ printed: 3/11/2016 12:04:04 PM

TRAFFIC SIGNAL CABINET ASSEMBLY

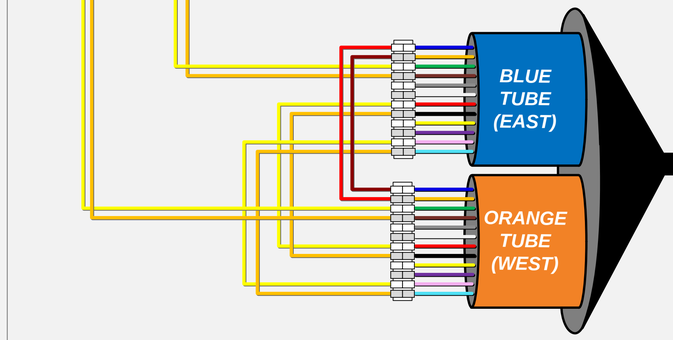


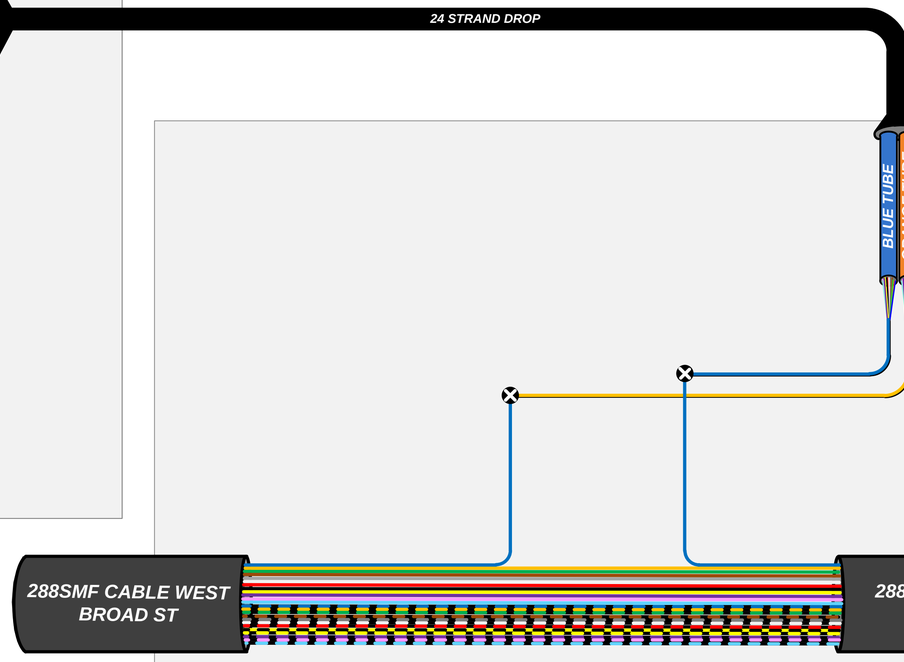


ETHERNET SWITCH PORT DESTINATION

PORT 5: PROPOSED COMMUNICATION NODE# 315000.9: SR-315 AT W. BROAD ST.
SEE SHEET 894

PORT 6: INT# 1009: BROAD ST. AT CHICAGO AVE.
SEE SHEET 664





PATCH PANEL ENCLOSURE – 24 TERMINATION

TO:
INT# 1007: BROAD ST.
AT GLENWOOD AVE.
SEE SHEET 665

TO:
INT# 1005: BROAD ST.
AT DAVIS AVE.
SEE SHEET 667

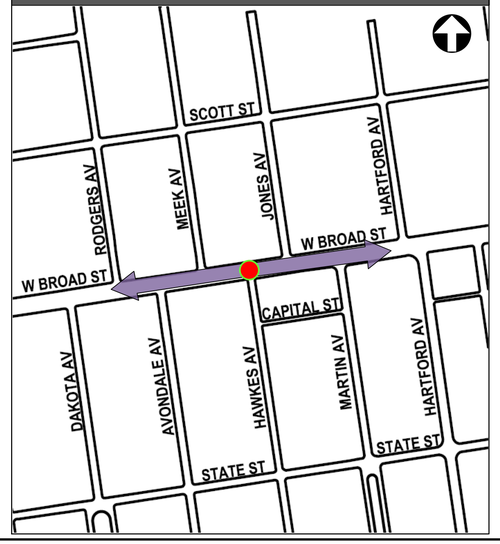
3 Cable Entries
24 Fusion Splices
23 Buffer Tubes Passed Through Unspliced

DOME, 144 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE

LEGEND

- 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 – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- *LH/ZX* GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 1006
REFER TO SHEET 85 FOR CONSTRUCTION PLAN DETAILS

CIP: 540007 - 100005
PID NUMBER: 14522

INT# 1006: BROAD ST. AT HAWKES AVE.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

666
911

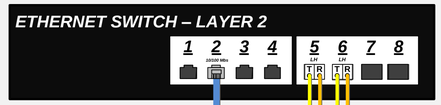
664-673.vsd - 1006 layout ~ last saved 5/2/2017 3:47:45 PM ~ printed: 3/11/2016 12:04:04 PM

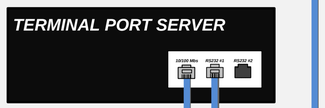
TRAFFIC SIGNAL CABINET ASSEMBLY

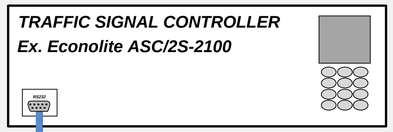
ETHERNET SWITCH PORT DESTINATION

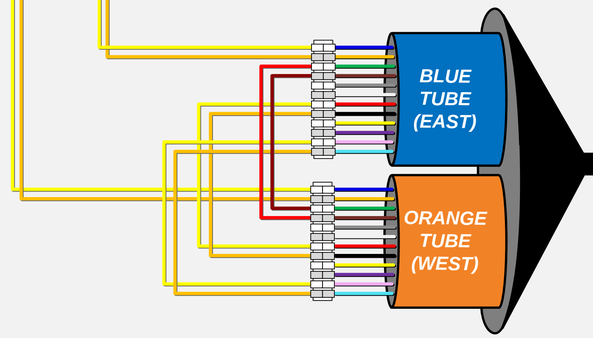
PORT 5: PROPOSED COMMUNICATION NODE# 315000.9: SR-315 AT W. BROAD ST.
SEE SHEET 894

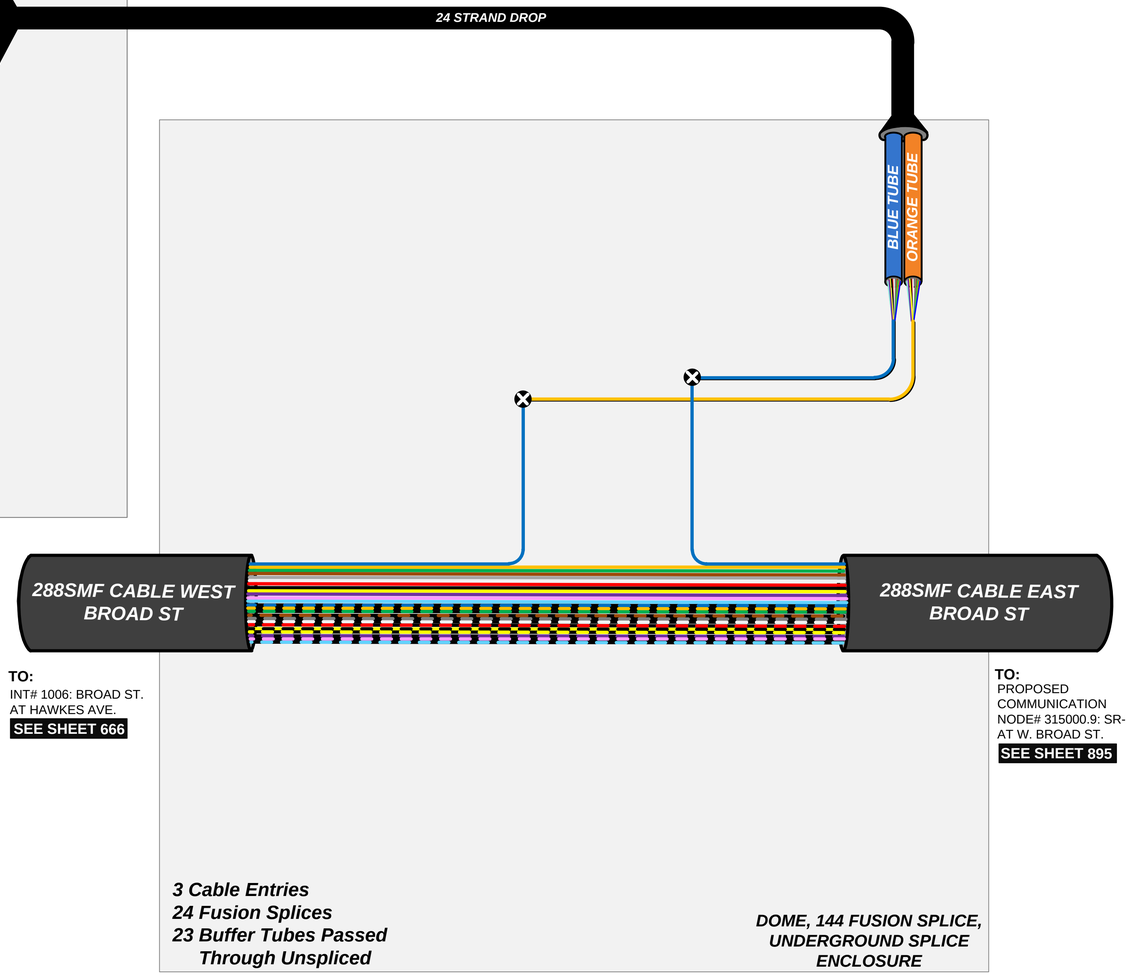
PORT 6: INT# 1007: BROAD ST. AT GLENWOOD AVE.
SEE SHEET 665











TO:
INT# 1006: BROAD ST.
AT HAWKES AVE.
SEE SHEET 666

TO:
PROPOSED
COMMUNICATION
NODE# 315000.9: SR-315
AT W. BROAD ST.
SEE SHEET 895

3 Cable Entries
24 Fusion Splices
23 Buffer Tubes Passed Through Unspliced

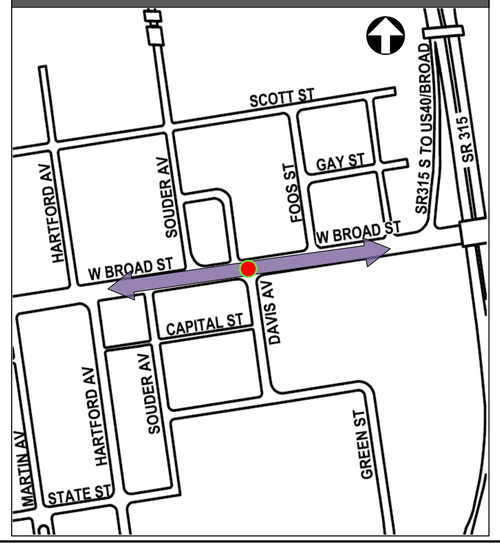
DOME, 144 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE

PATCH PANEL ENCLOSURE – 24 TERMINATION

LEGEND

- 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 – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- *LH/ZX* GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 1005
REFER TO SHEET 86 FOR CONSTRUCTION PLAN DETAILS

CIP: 540007 - 100005
PID NUMBER: 14522

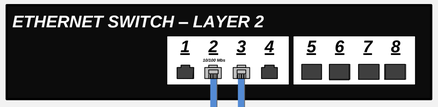
INT# 1005: BROAD ST. AT DAVIS AVE.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

667
911

664-673.vsd - 1005 layout ~ last saved 5/2/2017 3:47:45 PM ~ printed 3/11/2016 12:04:04 PM

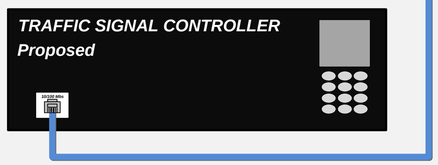
TRAFFIC SIGNAL CABINET ASSEMBLY



ETHERNET SWITCH PORT DESTINATION

PORT 3: PROPOSED COMMUNICATION NODE# 315000.9: SR-315 AT W. BROAD ST.
SEE SHEET 894

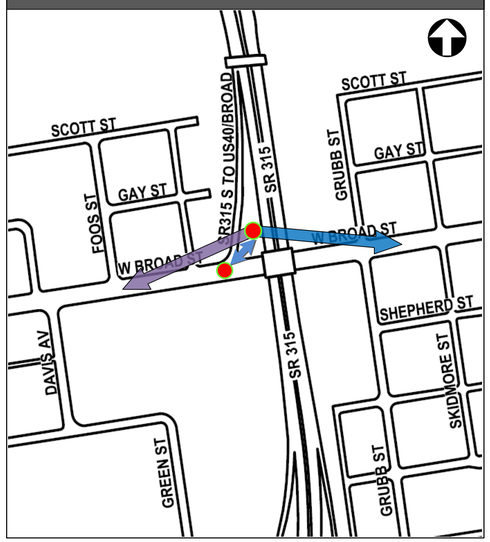
TO:
PROPOSED
COMMUNICATION
NODE# 315000.9: SR-315
AT W. BROAD ST.
SEE SHEET 895



LEGEND

- 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 – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- *LH/ZX* (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 1004
REFER TO SHEET 87 FOR CONSTRUCTION PLAN DETAILS

CIP: 540007 - 100005
PID NUMBER: 14522

INT# 1004: BROAD ST. AT SR-315 SB OFFRAMP
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

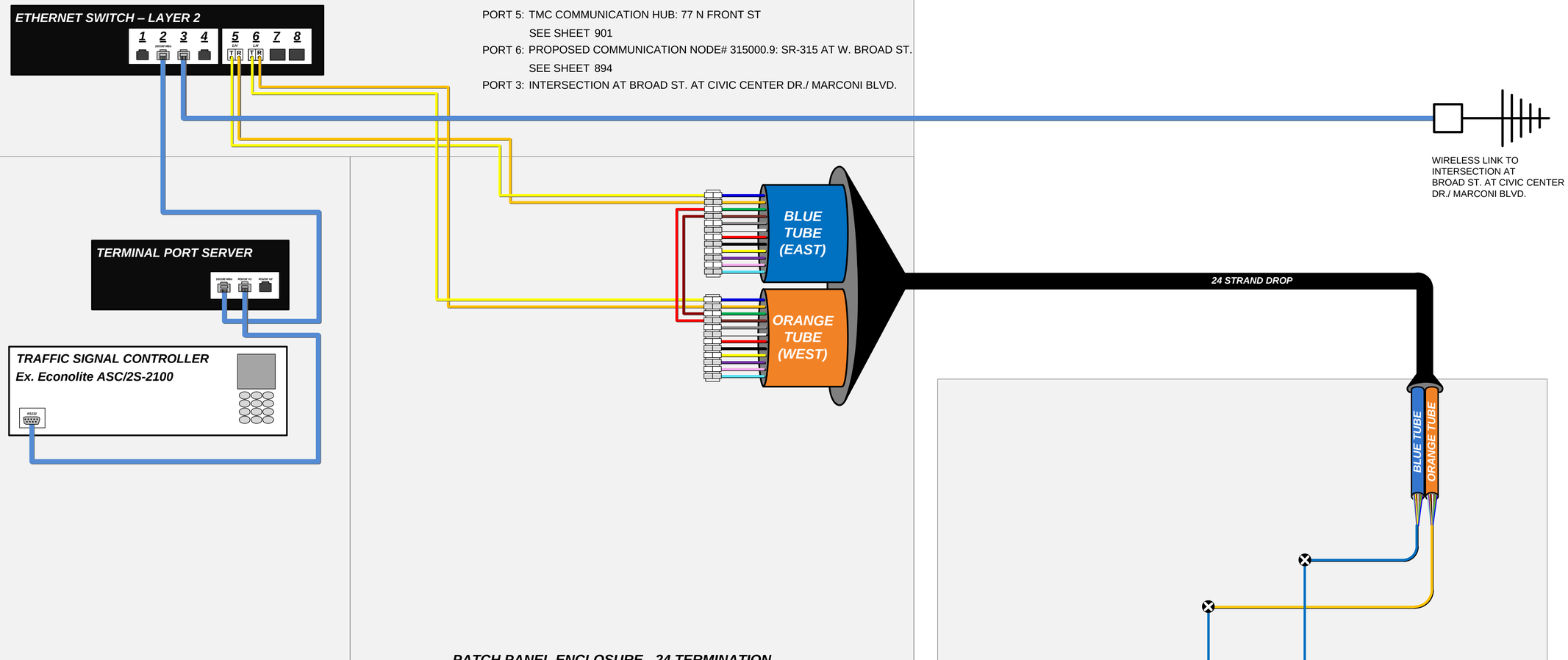
TRAFFIC SIGNAL CABINET ASSEMBLY

ETHERNET SWITCH PORT DESTINATION

PORT 5: TMC COMMUNICATION HUB: 77 N FRONT ST
SEE SHEET 901

PORT 6: PROPOSED COMMUNICATION NODE# 315000.9: SR-315 AT W. BROAD ST.
SEE SHEET 894

PORT 3: INTERSECTION AT BROAD ST. AT CIVIC CENTER DR./ MARCONI BLVD.



TO:
PROPOSED
COMMUNICATION
NODE# 315000.9: SR-315
SEE SHEET 895

TO:
TMC
COMMUNICATION
HUB: 77 N FRONT ST
SEE SHEET 902

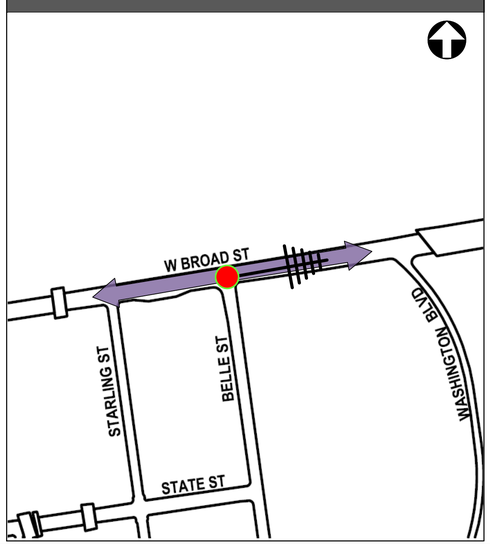
3 Cable Entries
24 Fusion Splices
11 Buffer Tubes Passed Through Unspliced

CLAMSHELL, 288 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 1001
REFER TO SHEET 91 FOR CONSTRUCTION PLAN DETAILS

CIP: 540007 - 100005
PID NUMBER: 14522

INT# 1001: BELLE ST. AT BROAD ST.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

669
911

664-673.vsd - 1001 layout ~ last saved 5/2/2017 3:47:45 PM ~ printed: 3/11/2016 12:04:04 PM

NO PROPOSED WORK PERFORMED ON THIS SHEET

TRAFFIC SIGNAL CABINET ASSEMBLY

ETHERNET SWITCH – LAYER 2

1 2 (10/100 Mbs) 3 4 5 6 7 8 (all 10/100 Mbs) T R

TERMINAL PORT SERVER

10/100 Mbs RS232 #1 RS232 #2

TRAFFIC SIGNAL CONTROLLER
Ex. Econolite ASC/2S-2100

RS232

ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 1010: BROAD ST. AT CENTRAL AVE.
SEE SHEET 662

PORT 6: INT# 1014: CENTRAL AVE. AT I-70 WB OFF RAMP
SEE SHEET 688

BLUE TUBE (NORTH)
ORANGE TUBE (SOUTH)
BLUE TUBE (EAST)
ORANGE TUBE (SPARE)

PATCH PANEL ENCLOSURES: (2) - 24 TERMINATION

24 STRAND DROP
24 STRAND DROP

144 STRAND FOC

TO:
INT# 1010: BROAD ST.
AT CENTRAL AVE.
SEE SHEET 662

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# 1058: DAVIS AVE.
AT TOWN ST.
SEE SHEET 672

5 Cable Entries
84 Fusion Splices
8 Coiled Buffer Tubes
9 Buffer Tubes Passed Through Unspliced

DOME, 800 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

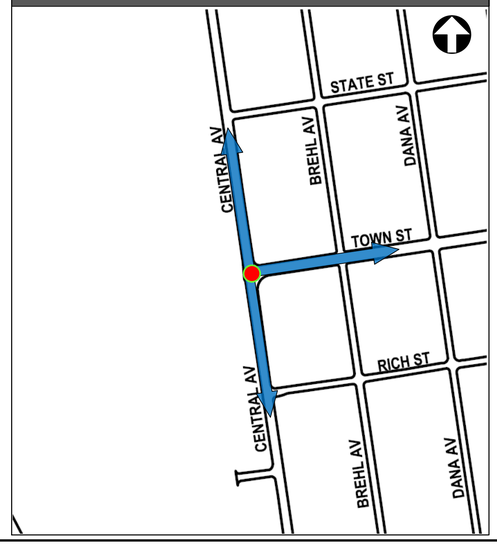
144 STRAND FOC

TO:
INT# 1014: CENTRAL AVE.
AT I-70 WB OFF RAMP
SEE SHEET 688

LEGEND

- 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 – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX — GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 1013
REFER TO SHEET 219 FOR CONSTRUCTION PLAN DETAILS

CIP: 540007 - 100005
PID NUMBER: 14522

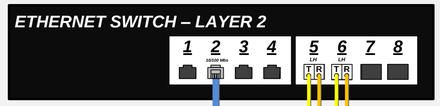
INT# 1013: CENTRAL AVE. AT TOWN ST.
COMMUNICATIONS DIAGRAM

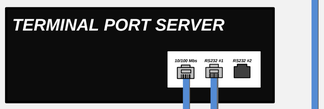
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

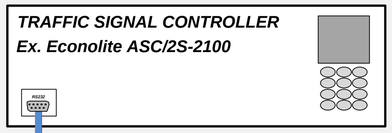
671
911

664-673.vsd - 1013 layout – last saved 5/2/2017 3:47:45 PM – printed: 3/11/2016 12:04:04 PM

TRAFFIC SIGNAL CABINET ASSEMBLY



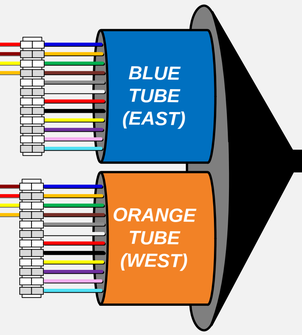


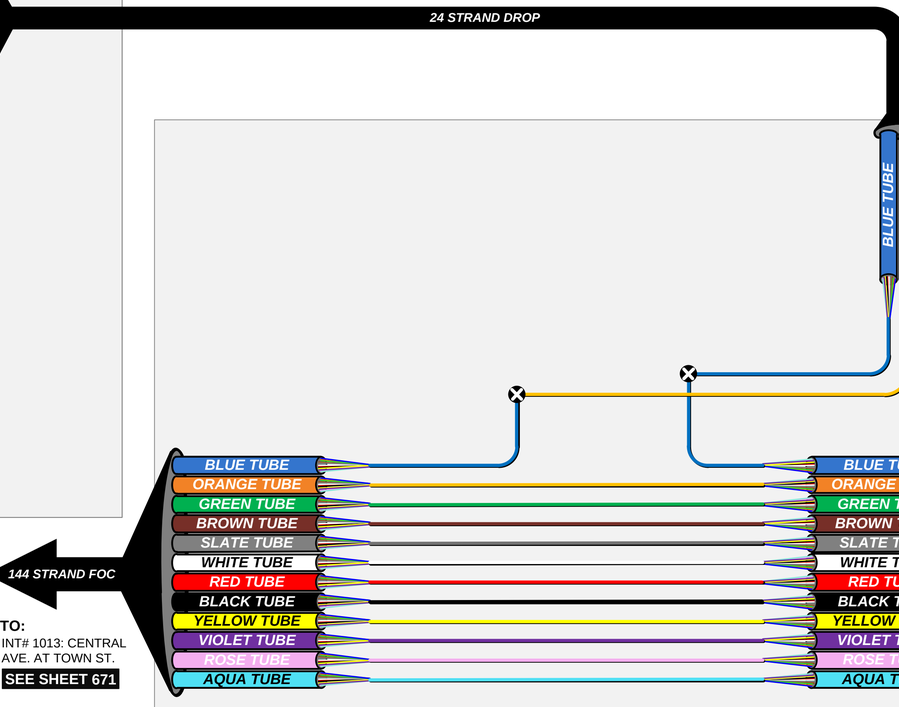


ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 1057: SR-315 SB OFF RAMP / PLATO PL. AT TOWN ST.
SEE SHEET 674

PORT 6: INT# 1013: CENTRAL AVE. AT TOWN ST.
SEE SHEET 671





TO:
INT# 1013: CENTRAL AVE. AT TOWN ST.
SEE SHEET 671

TO:
INT# 1059: GREEN ST. AT TOWN ST.
SEE SHEET 673

3 Cable Entries
24 Fusion Splices
11 Buffer Tubes Passed Through Unspliced

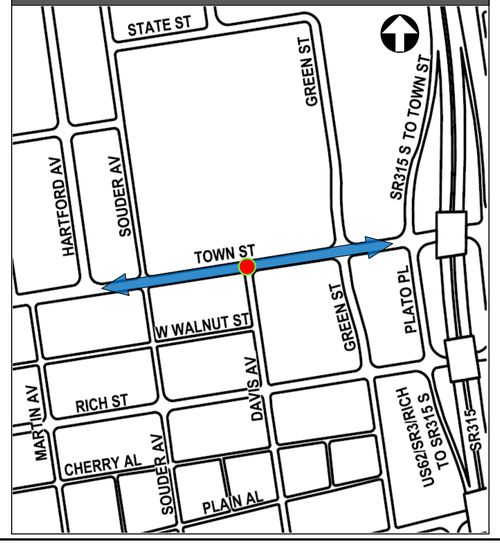
CLAMSHELL, 288 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

PATCH PANEL ENCLOSURE – 24 TERMINATION

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- *LH/ZX* GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 1058
REFER TO SHEET 126 FOR CONSTRUCTION PLAN DETAILS

CIP: 540007 - 100005
PID NUMBER: 14522

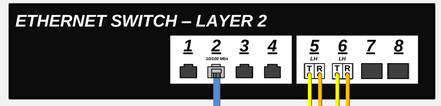
INT# 1058: DAVIS AVE. AT TOWN ST.
COMMUNICATIONS DIAGRAM

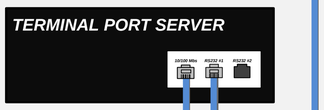
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

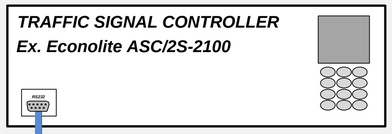
672
911

664-673.vsd - 1058 layout ~ last saved 5/2/2017 3:47:45 PM ~ printed: 3/11/2016 12:04:04 PM

TRAFFIC SIGNAL CABINET ASSEMBLY







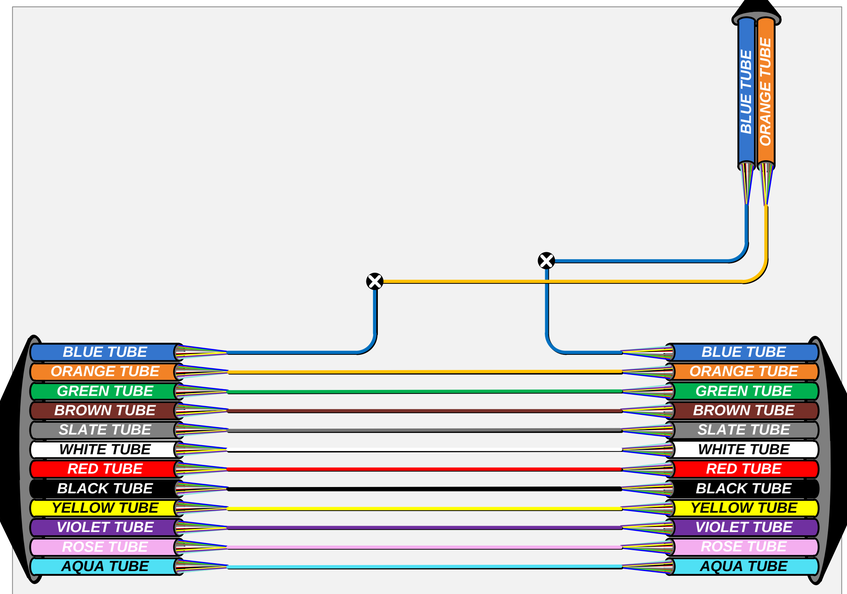
ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 1056: SANDUSKY ST. AT TOWN ST.
SEE SHEET 675

PORT 6: INT# 1013: CENTRAL AVE. AT TOWN ST.
SEE SHEET 671



PATCH PANEL ENCLOSURE – 24 TERMINATION



TO:
INT# 1058: DAVIS AVE. AT TOWN ST.
SEE SHEET 672

TO:
INT# 1057: SR-315 SB OFF RAMP / PLATO PL. AT TOWN ST.
SEE SHEET 674

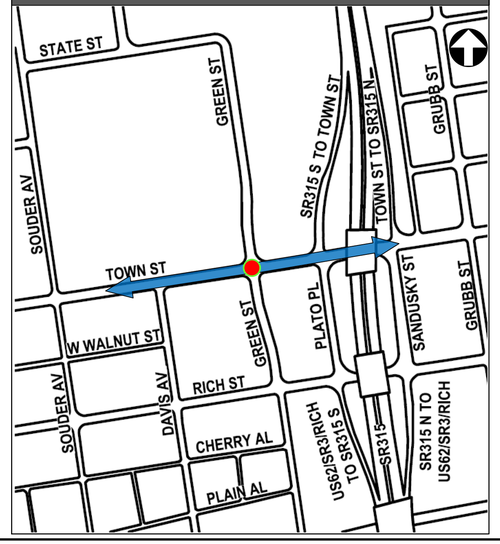
3 Cable Entries
24 Fusion Splices
11 Buffer Tubes Passed Through Unspliced

CLAMSHELL, 288 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX — GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 1059
REFER TO SHEET 127 FOR CONSTRUCTION PLAN DETAILS

CIP: 540007 - 100005
PID NUMBER: 14522

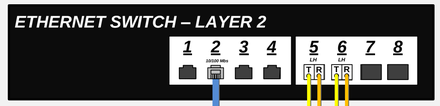
INT# 1059: GREEN ST. AT TOWN ST.
COMMUNICATIONS DIAGRAM

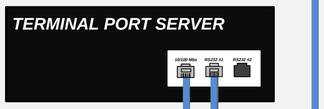
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

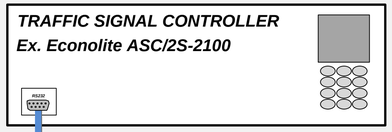
673
911

664-673.vsd - 1059 layout ~ last saved 5/2/2017 3:47:45 PM ~ printed: 3/11/2016 12:04:04 PM

TRAFFIC SIGNAL CABINET ASSEMBLY







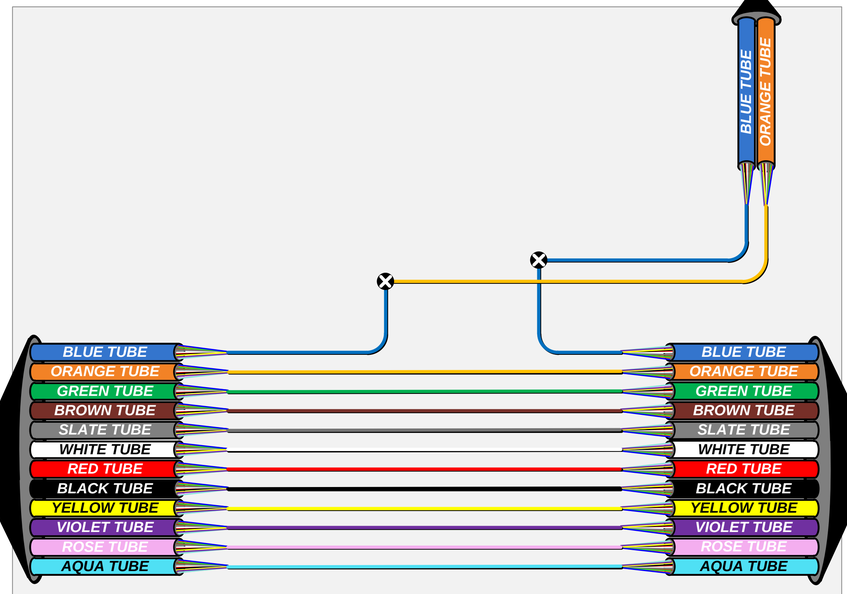
ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 1066: RICH ST. AT SANDUSKY ST.
SEE SHEET 676

PORT 6: INT# 1058: DAVIS AVE. AT TOWN ST.
SEE SHEET 672



PATCH PANEL ENCLOSURE – 24 TERMINATION



TO:
INT# 1059: GREEN ST. AT TOWN ST.
SEE SHEET 673

TO:
INT# 1056: SANDUSKY ST. AT TOWN ST.
SEE SHEET 675

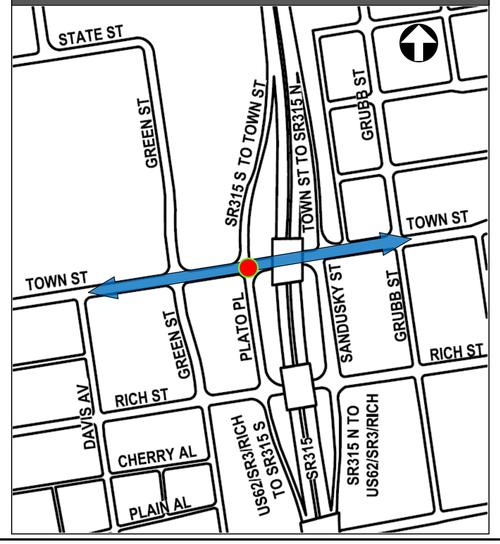
3 Cable Entries
24 Fusion Splices
11 Buffer Tubes Passed Through Unspliced

CLAMSHELL, 288 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- *LH/ZX* GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 1057
REFER TO SHEET 127 FOR CONSTRUCTION PLAN DETAILS

CIP: 540007 - 100005
PID NUMBER: 14522

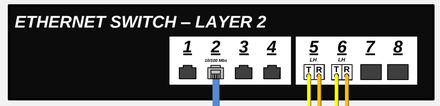
INT# 1057: SR-315 SB OFF RAMP / PLATO PL. AT TOWN ST.
COMMUNICATIONS DIAGRAM

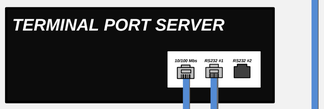
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

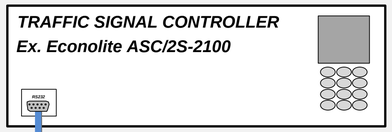
674
911

674-688.vsd - 1057 layout ~ last saved 5/2/2017 3:49:21 PM ~ printed: 3/11/2016 12:05:57 PM

TRAFFIC SIGNAL CABINET ASSEMBLY



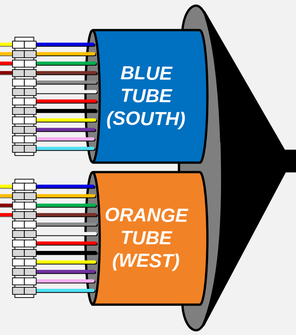




ETHERNET SWITCH PORT DESTINATION

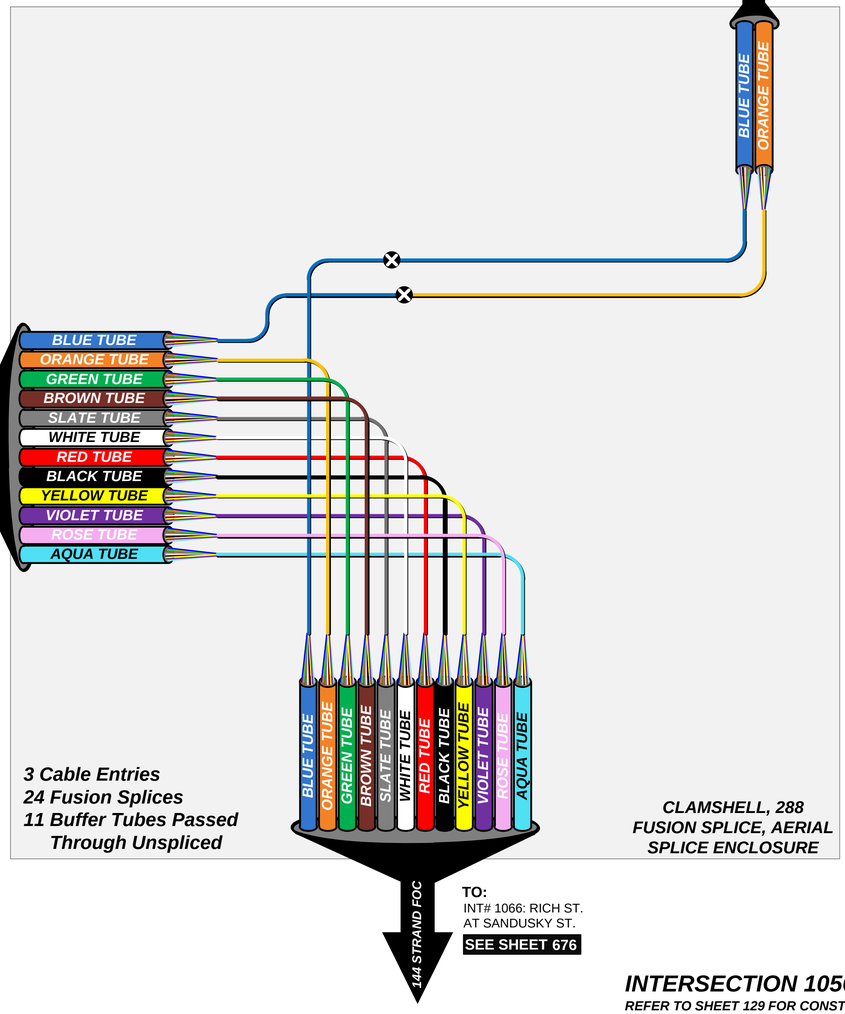
PORT 5: INT# 1066: RICH ST. AT SANDUSKY ST.
SEE SHEET 676

PORT 6: INT# 1059: GREEN ST. AT TOWN ST.
SEE SHEET 673



24 STRAND DROP

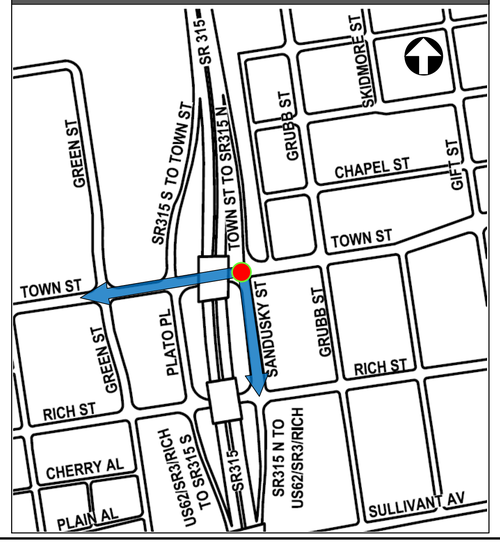
PATCH PANEL ENCLOSURE – 24 TERMINATION



LEGEND

- 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 – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 1056

REFER TO SHEET 129 FOR CONSTRUCTION PLAN DETAILS

CIP: 540007 - 100005
PID NUMBER: 14522

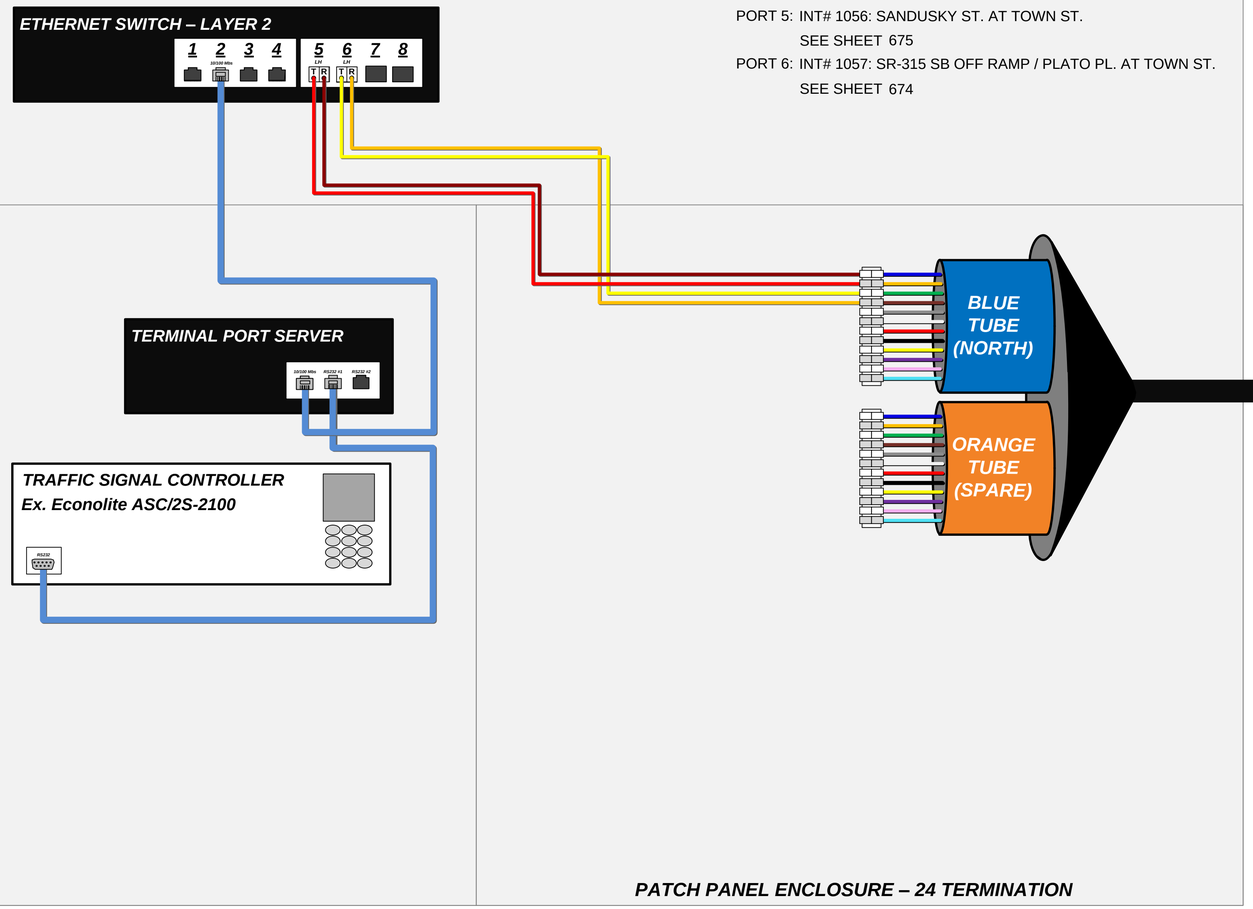
INT# 1056: SANDUSKY ST. AT TOWN ST.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

675
911

674-688.vsd - 1056 layout - last saved 5/2/2017 3:49:21 PM - printed: 3/11/2016 12:05:57 PM

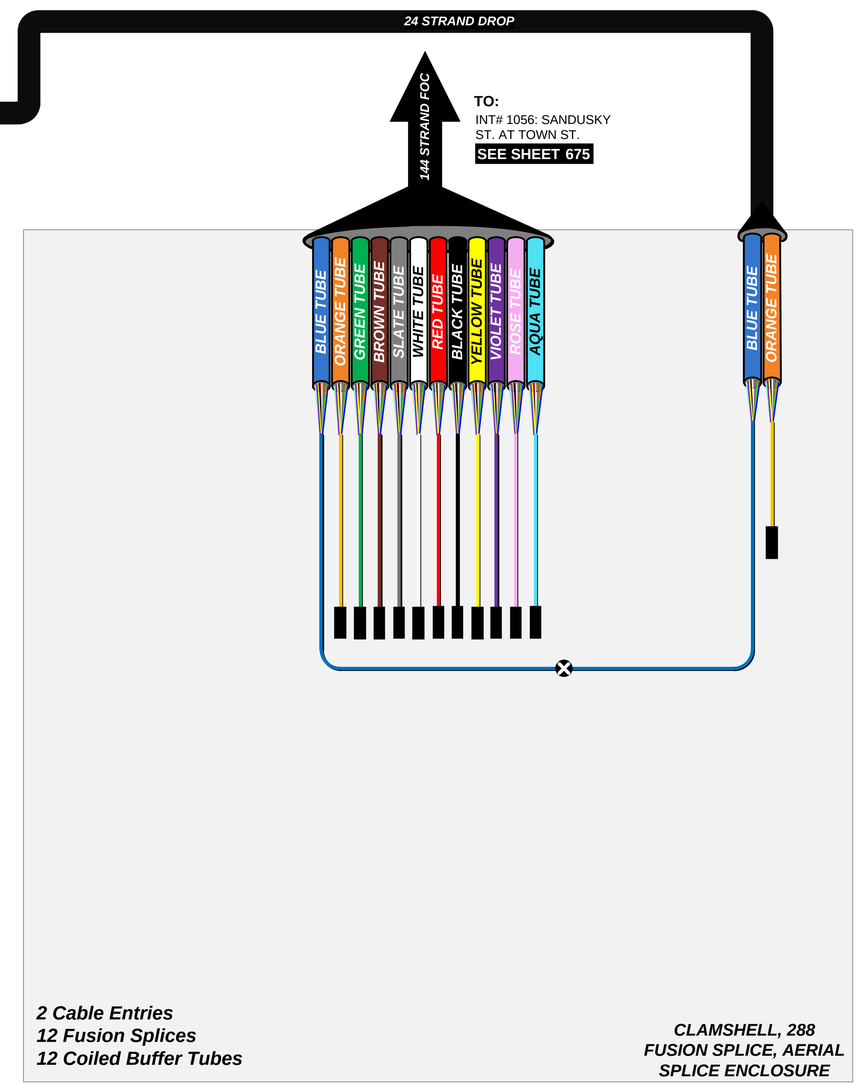
TRAFFIC SIGNAL CABINET ASSEMBLY



ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 1056: SANDUSKY ST. AT TOWN ST.
SEE SHEET 675

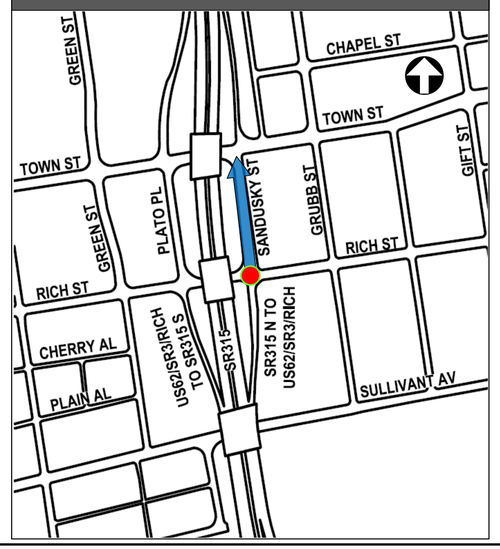
PORT 6: INT# 1057: SR-315 SB OFF RAMP / PLATO PL. AT TOWN ST.
SEE SHEET 674



LEGEND

- 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 – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 1066

REFER TO SHEET 129 FOR CONSTRUCTION PLAN DETAILS

CIP: 540007 - 100005
PID NUMBER: 14522

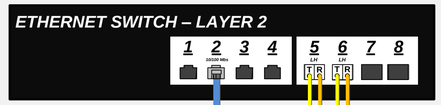
INT# 1066: RICH ST. AT SANDUSKY ST.
COMMUNICATIONS DIAGRAM

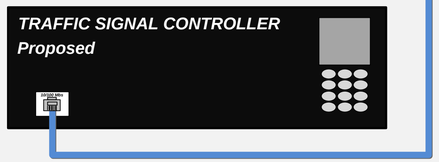
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

676
911

674-688.vsd - 1066 layout ~ last saved 5/2/2017 3:49:21 PM ~ printed: 3/11/2016 12:05:57 PM

TRAFFIC SIGNAL CABINET ASSEMBLY

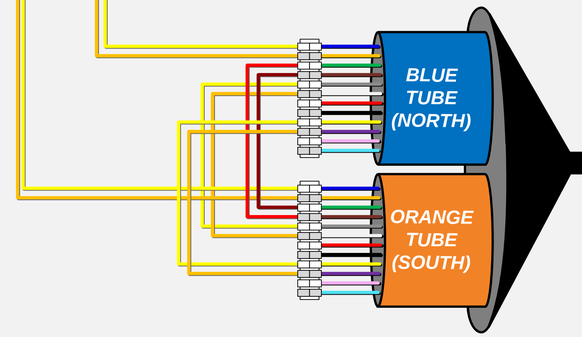




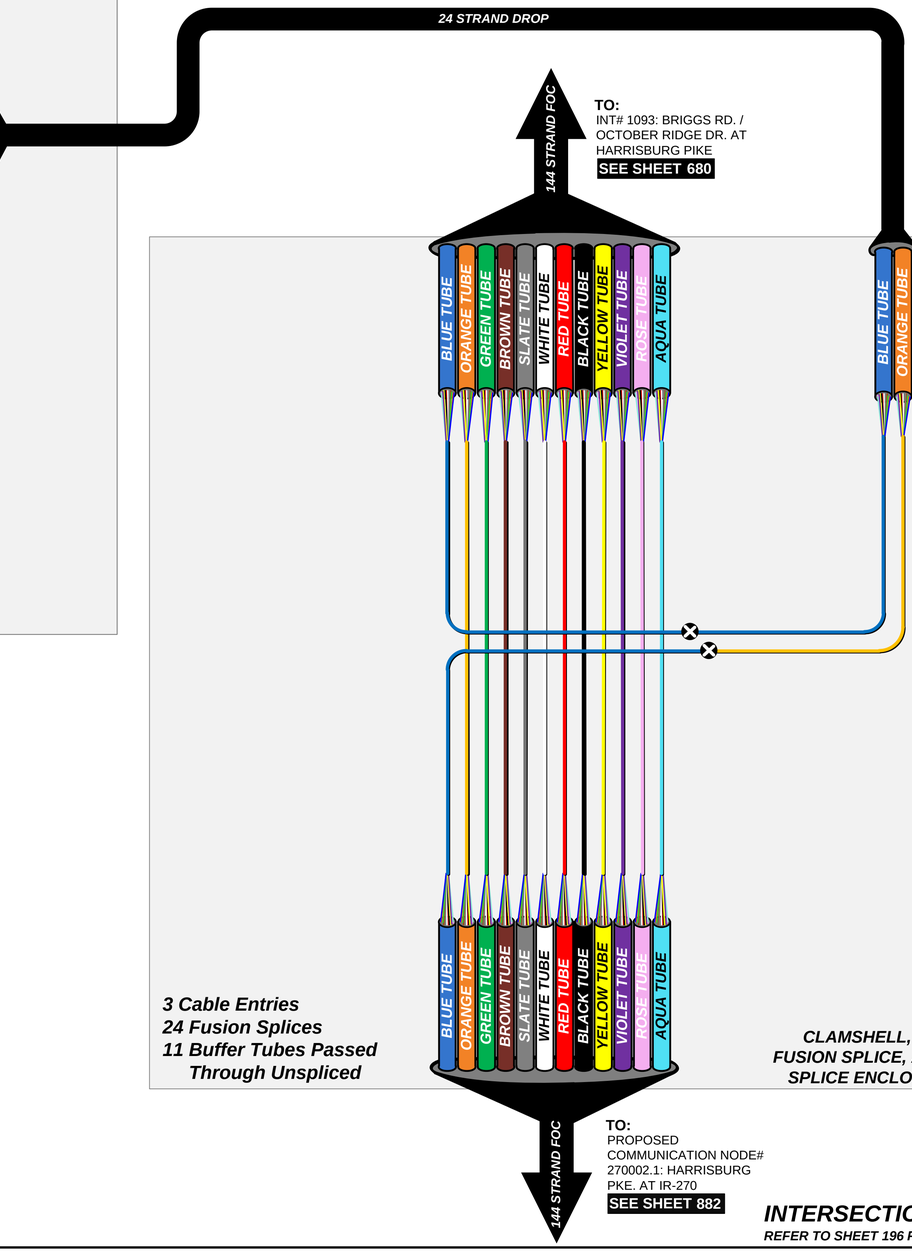
ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# SIG4130: FRANK RD. AT GANTZ RD.
SEE SHEET 678

PORT 6: PROPOSED COMMUNICATION NODE# 270002.1: HARRISBURG PKE. AT IR-270
SEE SHEET 881



PATCH PANEL ENCLOSURE – 24 TERMINATION



TO:
INT# 1093: BRIGGS RD. / OCTOBER RIDGE DR. AT HARRISBURG PIKE
SEE SHEET 680

3 Cable Entries
24 Fusion Splices
11 Buffer Tubes Passed Through Unspliced

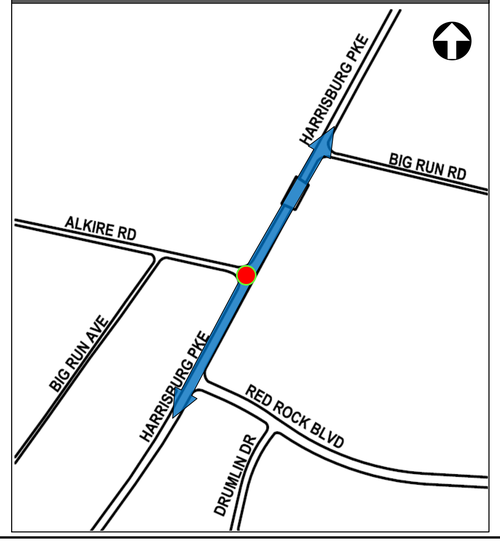
CLAMSHELL, 288 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

TO:
PROPOSED COMMUNICATION NODE# 270002.1: HARRISBURG PKE. AT IR-270
SEE SHEET 882

LEGEND

- 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 – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 1090
REFER TO SHEET 196 FOR CONSTRUCTION PLAN DETAILS

CIP: 540007 - 100005
PID NUMBER: 14522

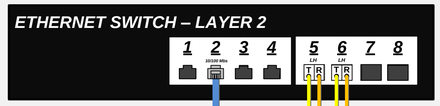
INT# 1090: ALKIRE RD. AT HARRISBURG PIKE
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

677
911

674-688.vsd - 1090 layout ~ last saved 5/2/2017 3:49:21 PM ~ printed: 3/11/2016 12:05:57 PM

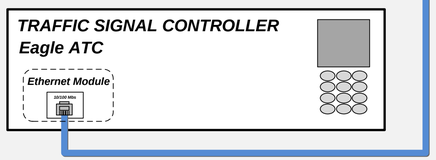
TRAFFIC SIGNAL CABINET ASSEMBLY

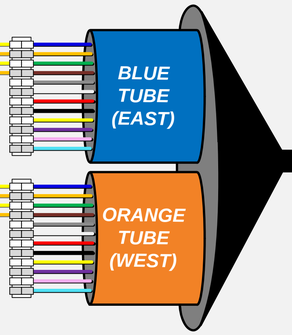


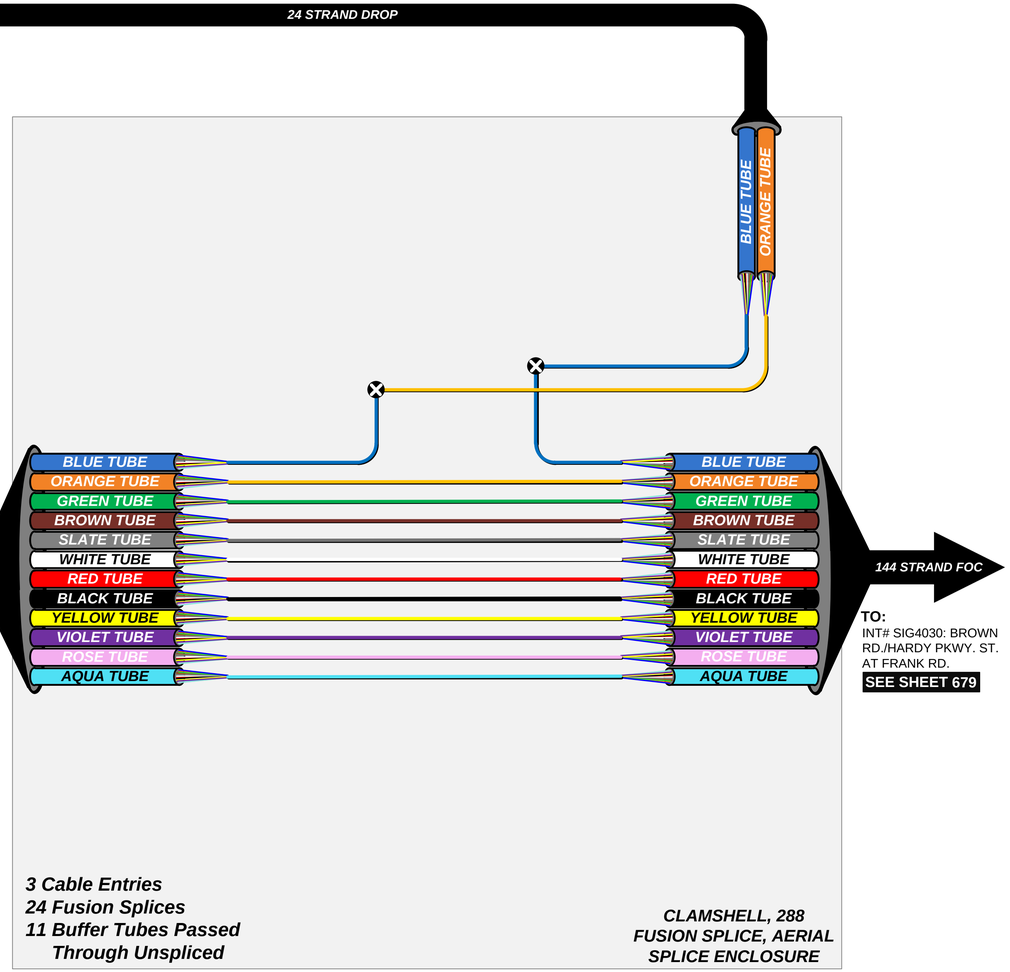
ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# SIG4030: BROWN RD./HARDY PKWY. ST. AT FRANK RD.
SEE SHEET 679

PORT 6: INT# 1090: ALKIRE RD. AT HARRISBURG PIKE
SEE SHEET 677





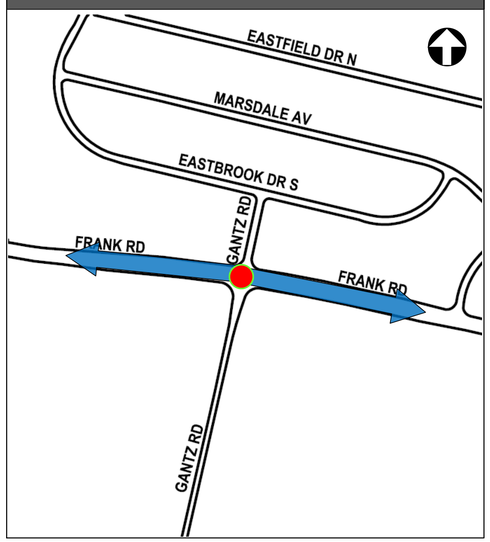


PATCH PANEL ENCLOSURE – 24 TERMINATION

LEGEND

- 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 – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX — GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION SIG4130

REFER TO SHEET 211 FOR CONSTRUCTION PLAN DETAILS

CIP: 540007 - 100005
PID NUMBER: 14522

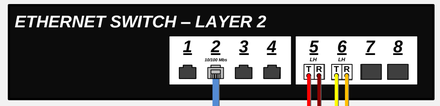
INT# SIG4130: FRANK RD. AT GANTZ RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

678
911

674-688.vsd - SIG4130 layout ~ last saved 5/2/2017 3:49:21 PM ~ printed: 3/11/2016 12:05:57 PM

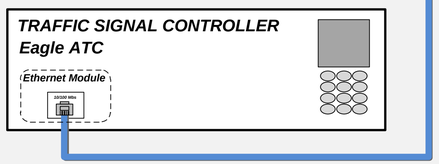
TRAFFIC SIGNAL CABINET ASSEMBLY

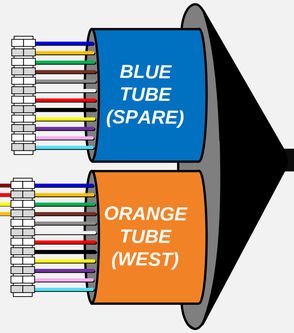


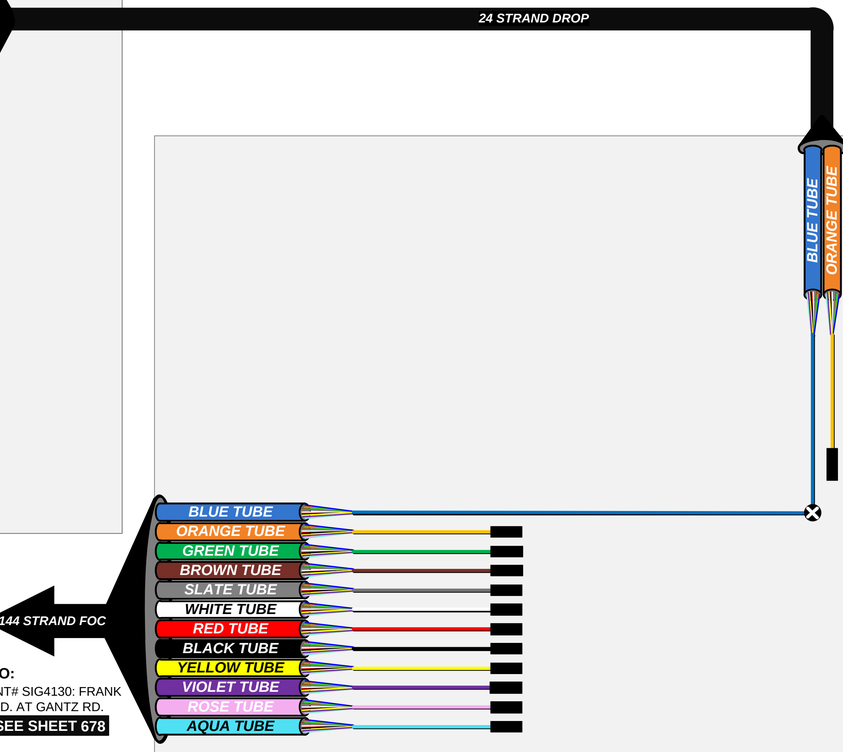
ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# SIG4130: FRANK RD. AT GANTZ RD.
SEE SHEET 678

PORT 6: INT# 1079: EAKIN RD./HOPKINS AVE. AT HARRISBURG PIKE
SEE SHEET 681







PATCH PANEL ENCLOSURE – 24 TERMINATION

TO:
INT# SIG4130: FRANK RD. AT GANTZ RD.
SEE SHEET 678

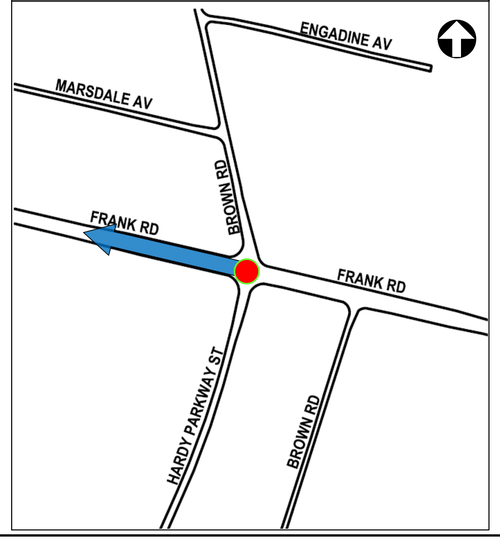
2 Cable Entries
12 Fusion Splices
12 Coiled Buffer Tubes

CLAMSHELL, 288 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX T R — GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION SIG4030
REFER TO SHEET 213 FOR CONSTRUCTION PLAN DETAILS

CIP: 540007 - 100005
PID NUMBER: 14522

INT# SIG4030: BROWN RD./HARDY PKWY. ST. AT FRANK RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

679
911

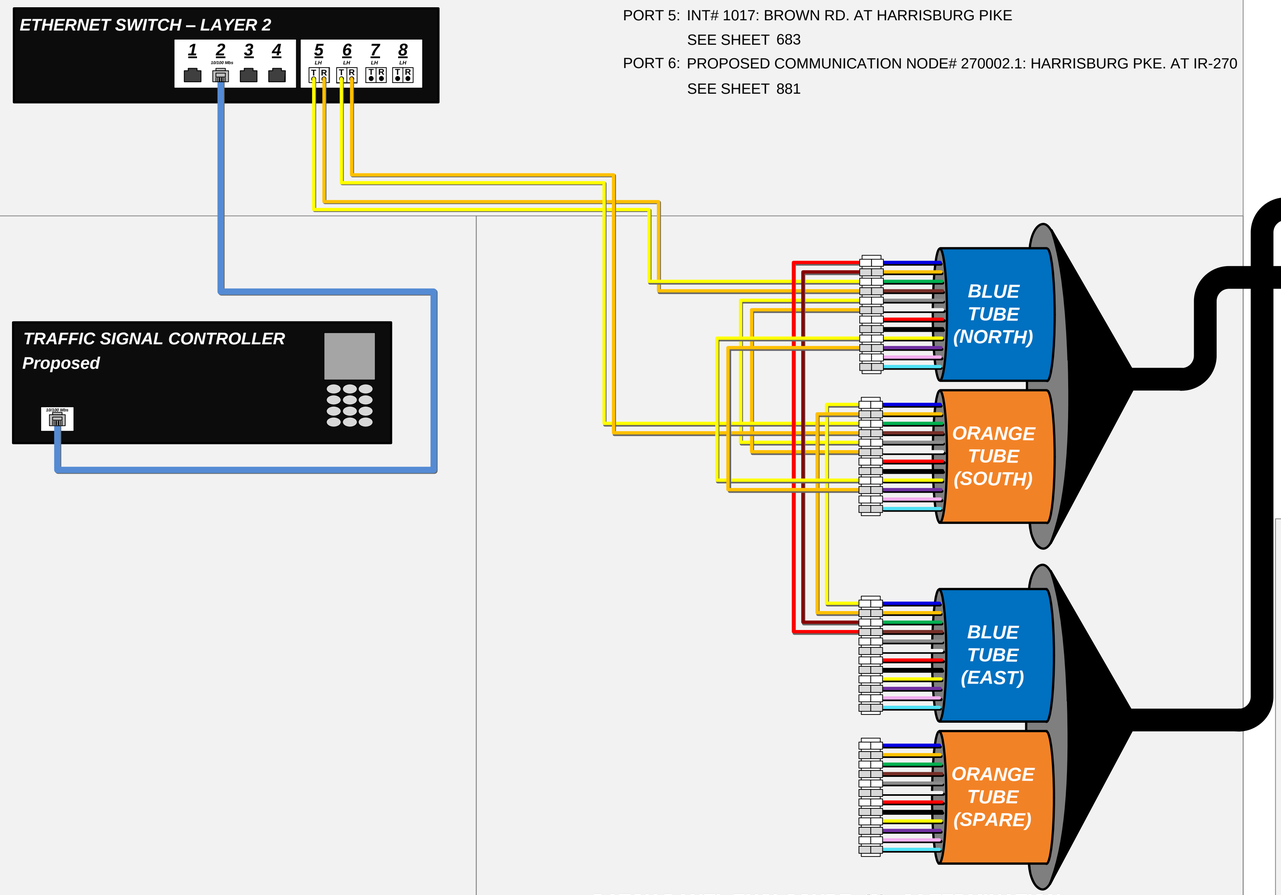
674-688.vsd - SIG4030 layout – last saved 5/2/2017 3:49:21 PM – printed: 3/11/2016 12:05:57 PM

TRAFFIC SIGNAL CABINET ASSEMBLY

ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 1017: BROWN RD. AT HARRISBURG PIKE
SEE SHEET 683

PORT 6: PROPOSED COMMUNICATION NODE# 270002.1: HARRISBURG PKE. AT IR-270
SEE SHEET 881



PATCH PANEL ENCLOSURE: (2) - 24 TERMINATION

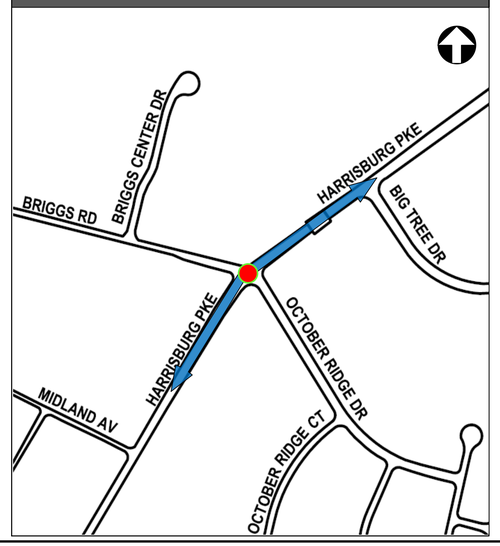
5 Cable Entries
180 Fusion Splices
10 Coiled Buffer Tubes

DOME, 800 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

LEGEND

- 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 – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX — GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 1093

REFER TO SHEET 201 FOR CONSTRUCTION PLAN DETAILS

CIP: 540007 - 100005
PID NUMBER: 14522

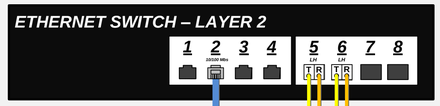
INT# 1093: BRIGGS RD. / OCTOBER RIDGE DR. AT HARRISBURG PIKE
COMMUNICATIONS DIAGRAM

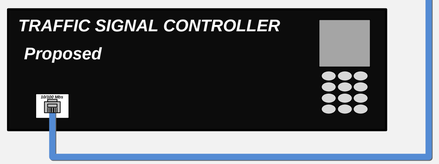
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

680
911

674-688.vsd - 1093 layout - last saved 5/2/2017 3:49:21 PM - printed: 3/11/2016 12:05:57 PM

TRAFFIC SIGNAL CABINET ASSEMBLY

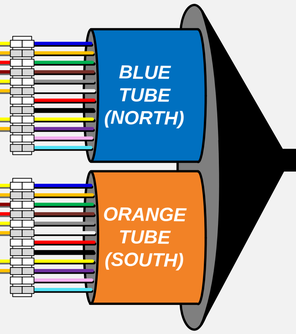




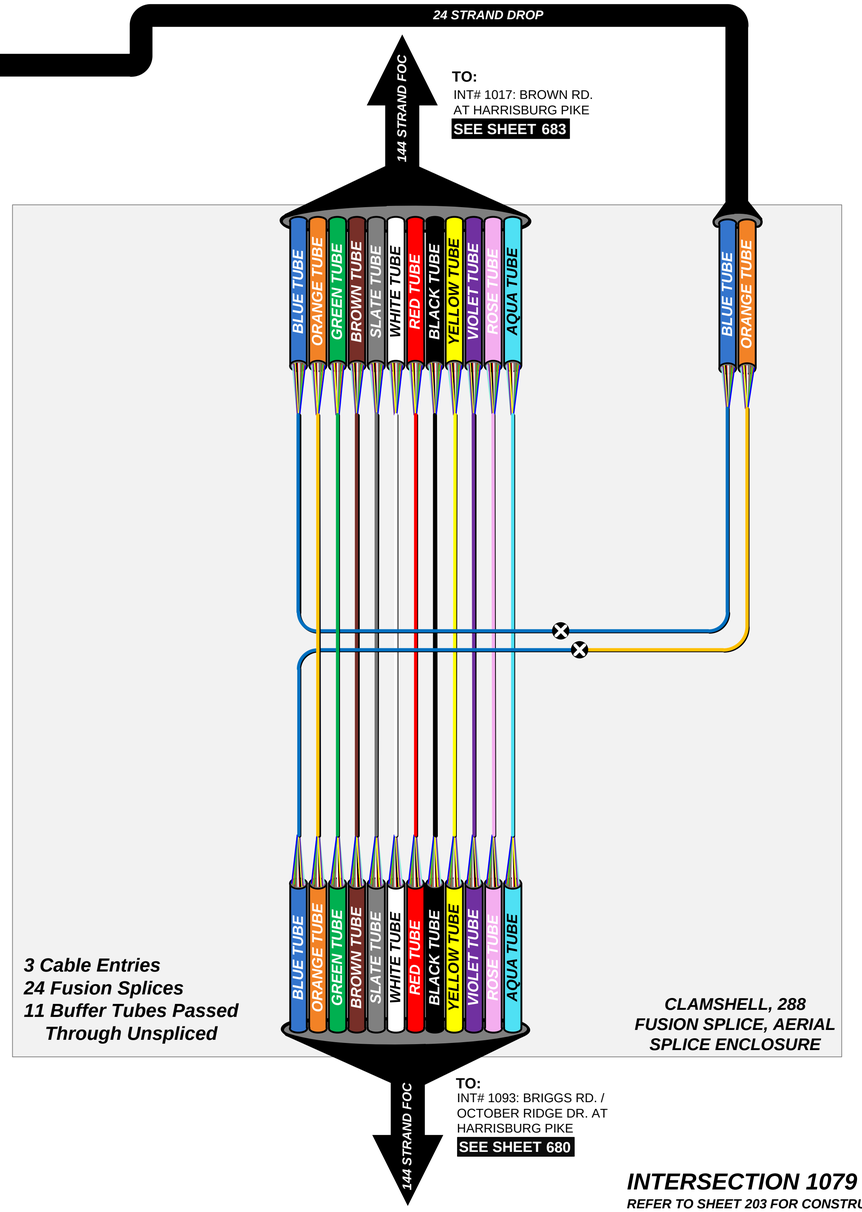
ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 1016: CENTRAL AVE./HARRISBURG PIKE. AT MOUND ST.
SEE SHEET 684

PORT 6: INT# SIG4030: BROWN RD./HARDY PKWY. ST. AT FRANK RD.
SEE SHEET 679



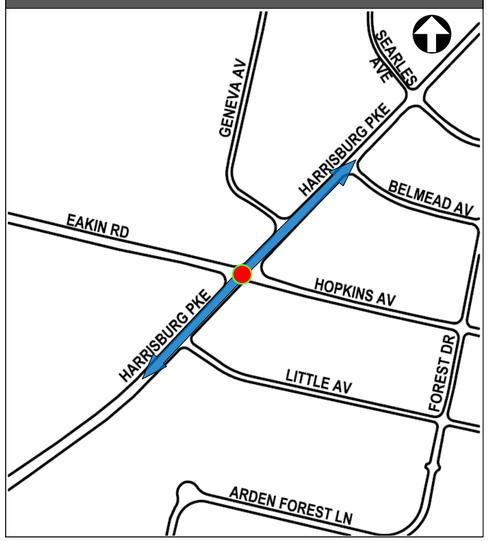
PATCH PANEL ENCLOSURE - 24 TERMINATION



LEGEND

- 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 – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 1079

REFER TO SHEET 203 FOR CONSTRUCTION PLAN DETAILS

CIP: 540007 - 100005
PID NUMBER: 14522

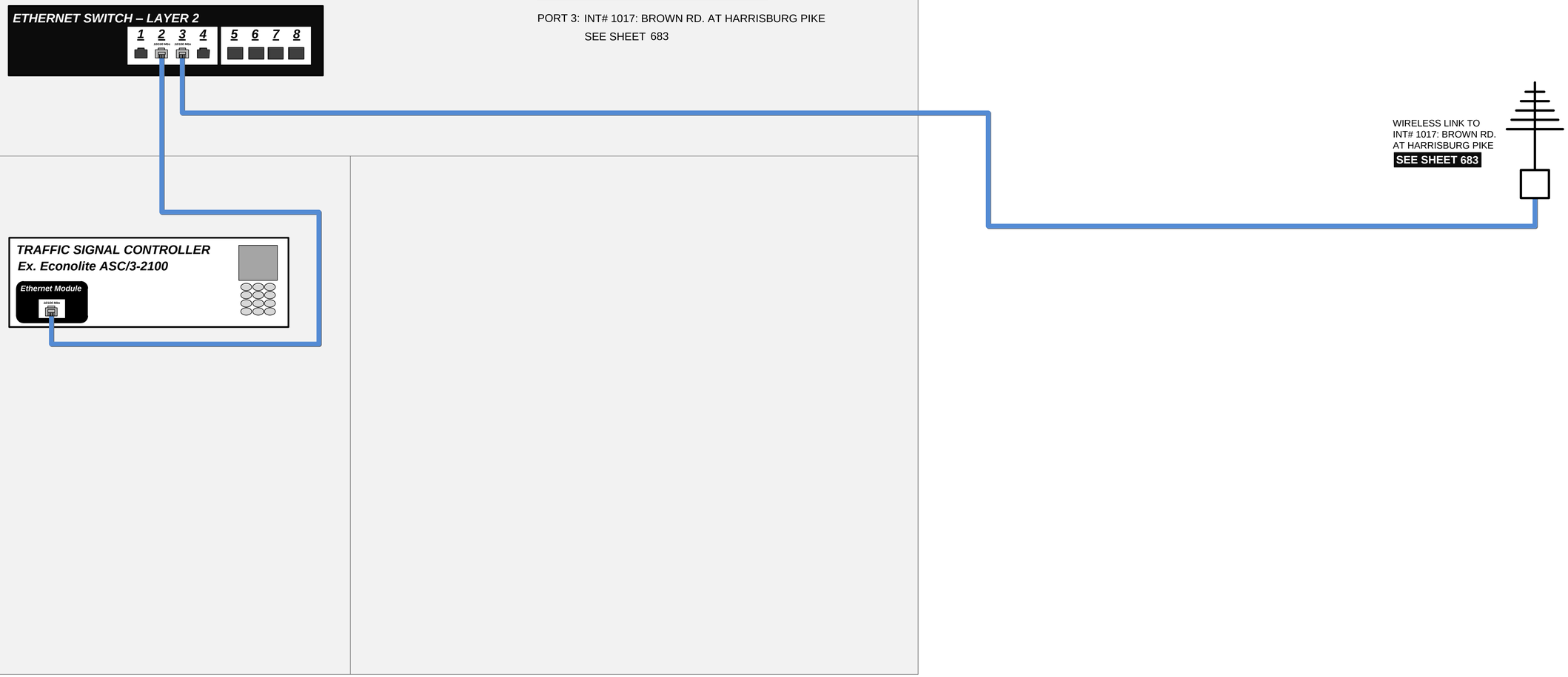
INT# 1079: EAKIN RD./HOPKINS AVE. AT HARRISBURG PIKE
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

681
911

674-688.vsd - 1079 layout - last saved 5/2/2017 3:49:21 PM - printed: 3/11/2016 12:05:57 PM

TRAFFIC SIGNAL CABINET ASSEMBLY



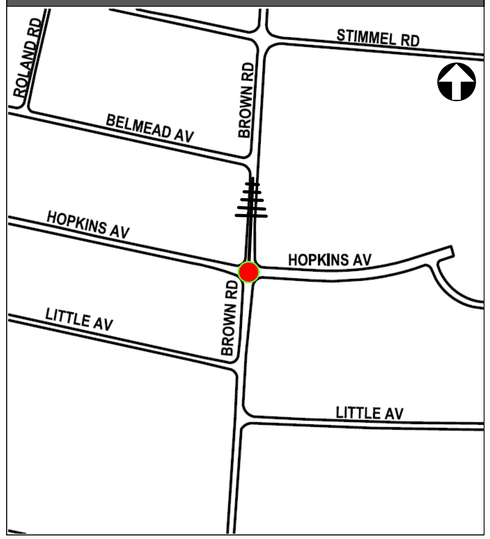
ETHERNET SWITCH PORT DESTINATION

PORT 3: INT# 1017: BROWN RD. AT HARRISBURG PIKE
SEE SHEET 683

LEGEND

- 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 – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION SIG4035

REFER TO SHEET 214 FOR CONSTRUCTION PLAN DETAILS

CIP: 540007 - 100005
PID NUMBER: 14522

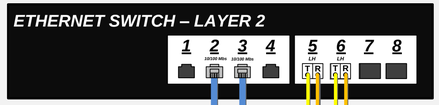
INT# SIG4035: BROWN RD. AT HOPKINS AVE.
COMMUNICATIONS DIAGRAM

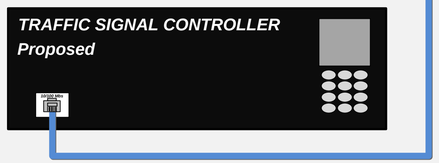
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

682
911

674-688.vsd - SIG4035 layout ~ last saved 5/2/2017 3:49:21 PM ~ printed: 3/11/2016 12:05:57 PM

TRAFFIC SIGNAL CABINET ASSEMBLY



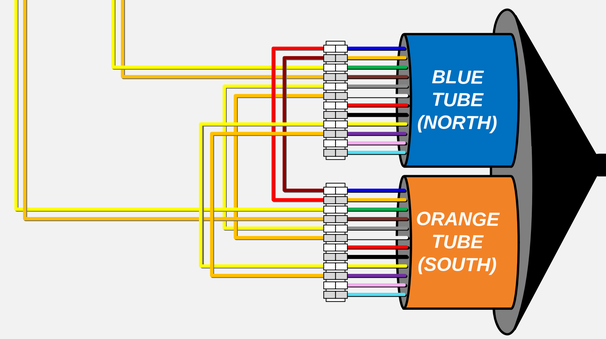


ETHERNET SWITCH PORT DESTINATION

PORT 3: INT# SIG4035: BROWN RD. AT HOPKINS AVE.
SEE SHEET 682

PORT 5: INT# 1083: MOUND ST. AT WHITETHORNE AVE.
SEE SHEET 717

PORT 6: INT# 1093: BRIGGS RD. / OCTOBER RIDGE DR. AT HARRISBURG PIKE
SEE SHEET 686



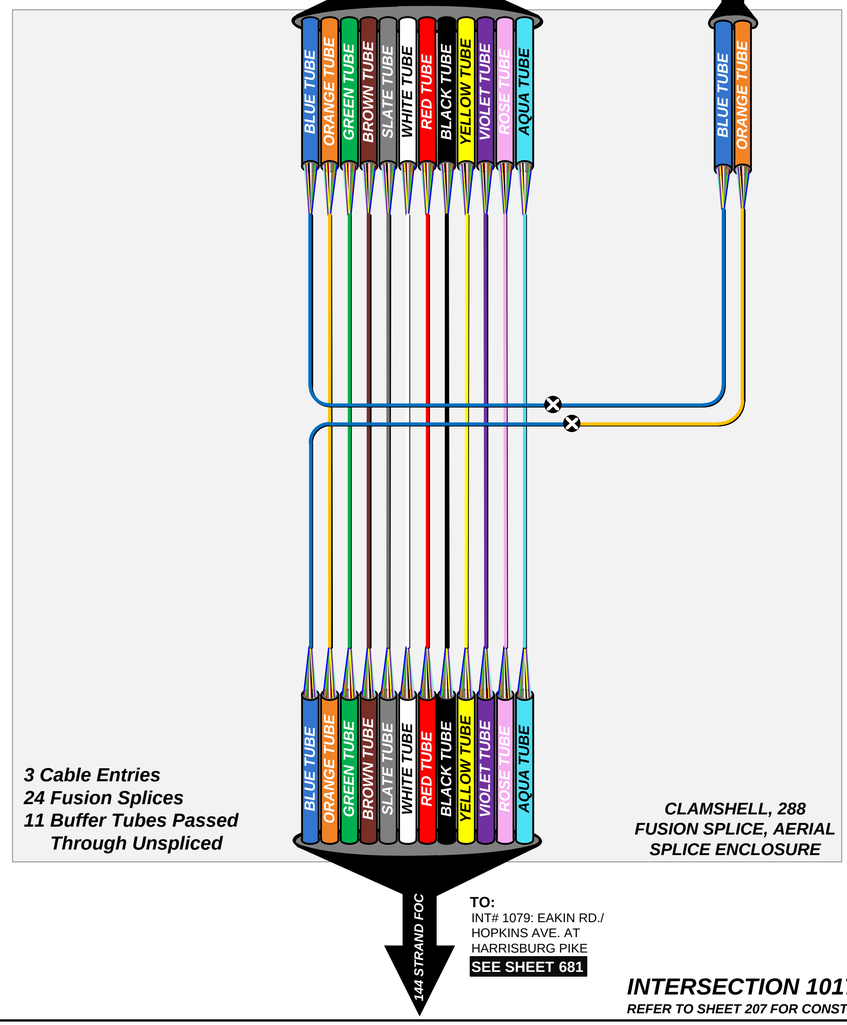
PATCH PANEL ENCLOSURE – 24 TERMINATION

WIRELESS LINK TO INT# SIG4035: BROWN RD. AT HOPKINS AVE.
SEE SHEET 682

24 STRAND DROP

144 STRAND FOC

TO:
INT# 1016: CENTRAL AVE./HARRISBURG PIKE. AT MOUND ST.
SEE SHEET 684



3 Cable Entries
24 Fusion Splices
11 Buffer Tubes Passed Through Unspliced

CLAMSHELL, 288 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

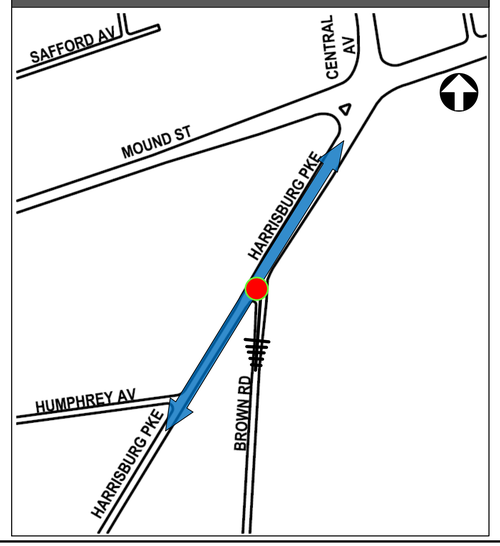
144 STRAND FOC

TO:
INT# 1079: EAKIN RD./ HOPKINS AVE. AT HARRISBURG PIKE
SEE SHEET 681

LEGEND

- 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 – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 1017
REFER TO SHEET 207 FOR CONSTRUCTION PLAN DETAILS

CIP: 540007 - 100005
PID NUMBER: 14522

INT# 1017: BROWN RD. AT HARRISBURG PIKE
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

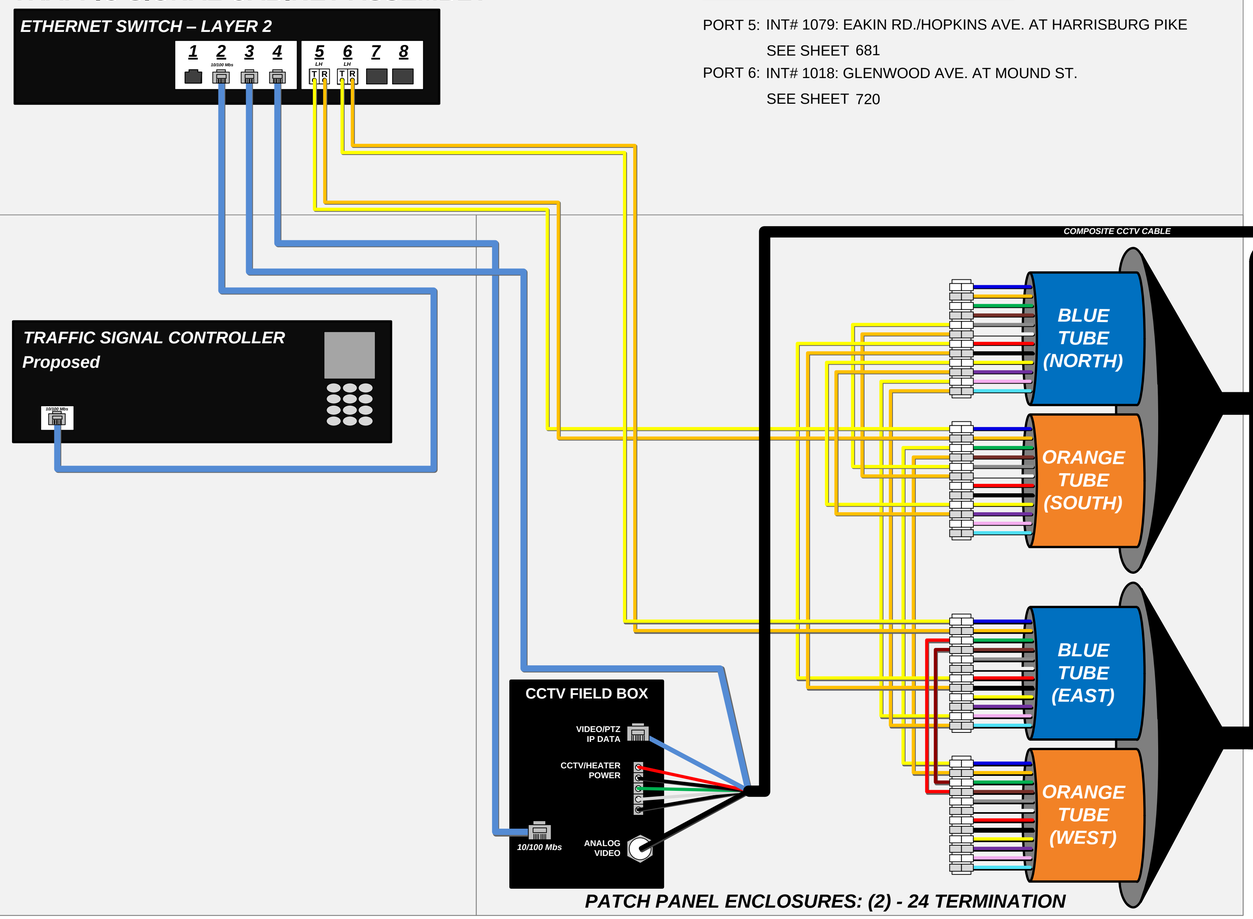
674-688.vsd - 1017 layout – last saved 5/2/2017 3:49:21 PM – printed: 3/11/2016 12:05:57 PM

TRAFFIC SIGNAL CABINET ASSEMBLY

ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 1079: EAKIN RD./HOPKINS AVE. AT HARRISBURG PIKE
SEE SHEET 681

PORT 6: INT# 1018: GLENWOOD AVE. AT MOUND ST.
SEE SHEET 720

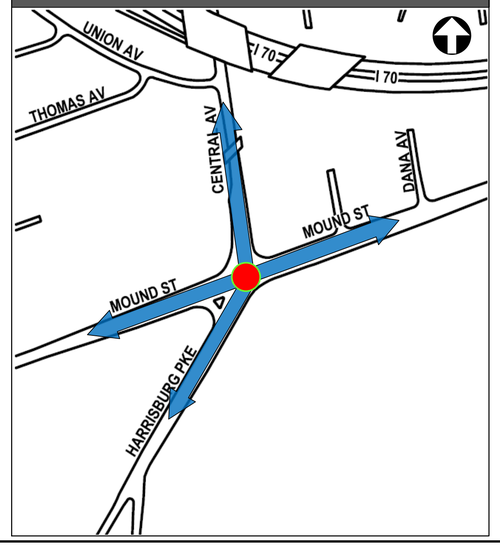


PATCH PANEL ENCLOSURES: (2) - 24 TERMINATION

LEGEND

- 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 – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX — GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 1016

REFER TO SHEET 143 FOR CONSTRUCTION PLAN DETAILS

CIP: 540007 - 100005
PID NUMBER: 14522

INT# 1016: CENTRAL AVE./HARRISBURG PIKE. AT MOUND ST.
COMMUNICATIONS DIAGRAM

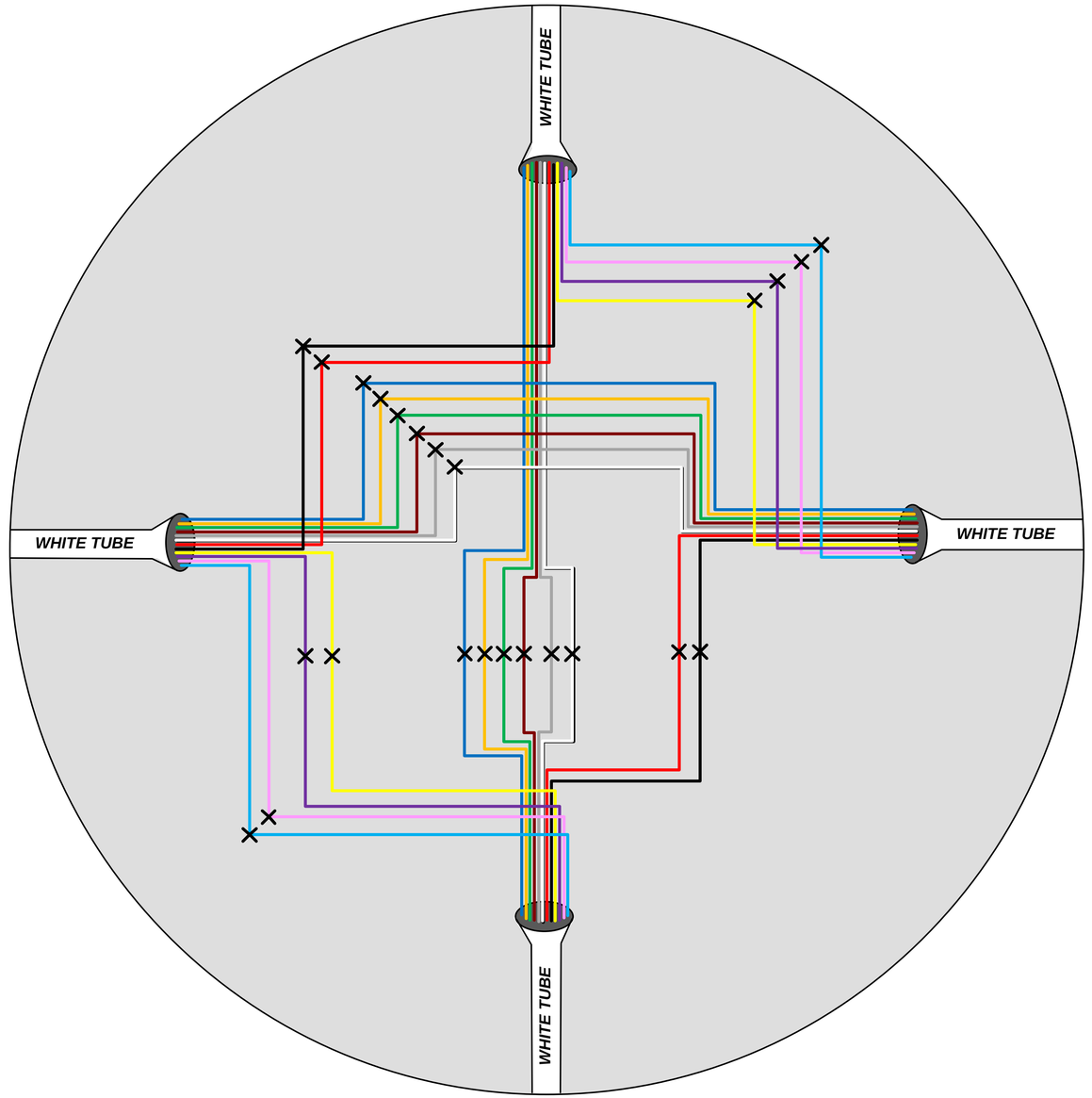
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

684
911

674-688.vsd - 1016 layout ~ last saved 5/2/2017 3:49:21 PM ~ printed: 3/11/2016 12:05:57 PM

TO:
INT# 1015: CENTRAL AVE.
AT SULLIVANT AVE.
SEE SHEET 686

TO:
INT# 1082: BELVIDERE
AVE. AT MOUND ST.
SEE SHEET 718



TO:
INT# 1019: I-70 RAMPS
AT MOUND ST.
SEE SHEET 719

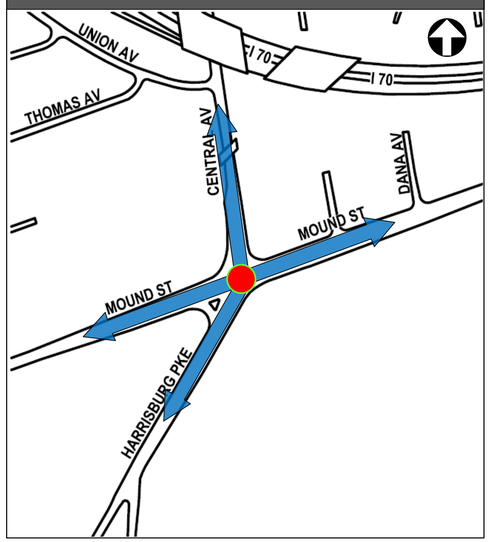
TO:
INT# 1017: BROWN RD.
AT HARRISBURG PIKE
SEE SHEET 683

INSET DETAIL A
SEE SHEET 684

LEGEND

- 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 – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- *LH/ZX* (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 1016
REFER TO SHEET 143 FOR CONSTRUCTION PLAN DETAILS

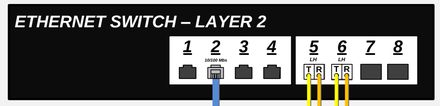
CIP: 540007 - 100005
PID NUMBER: 14522

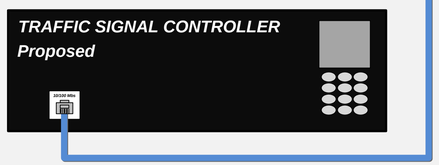
INT# 1016: CENTRAL AVE./HARRISBURG PIKE. AT MOUND ST.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

674-688.vsd - 1016-ODOT layout ~ last saved 5/2/2017 3:49:21 PM ~ printed: 3/11/2016 12:05:57 PM

TRAFFIC SIGNAL CABINET ASSEMBLY





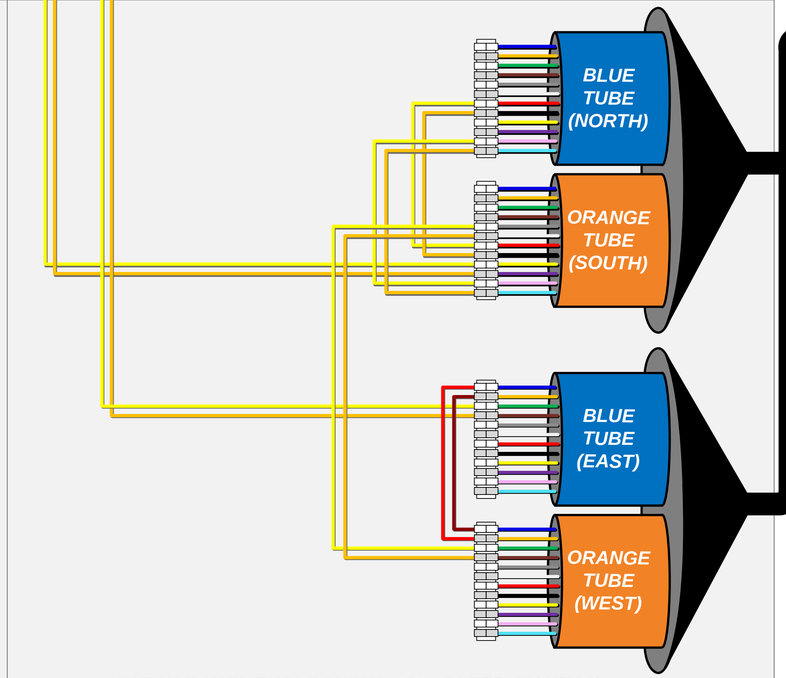
ETHERNET SWITCH PORT DESTINATION

PORT 5: PROPOSED COMMUNICATION NODE# 270002.1:
HARRISBURG PKE. AT IR-270

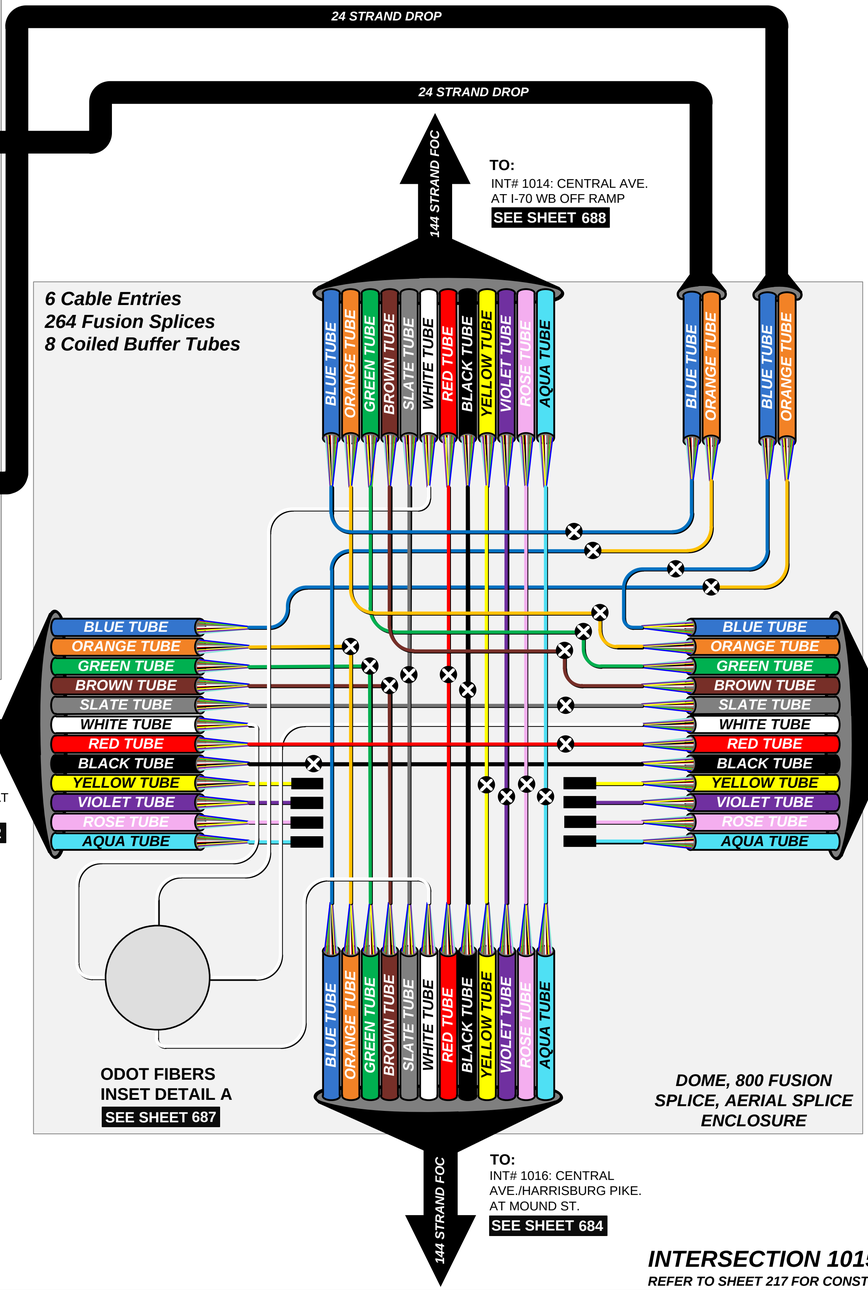
SEE SHEET 881

PORT 6: INT# 1073: GLENWOOD AVE. AT SULLIVANT AVE.

SEE SHEET 713



PATCH PANEL ENCLOSURES: (2) – 24 TERMINATION



LEGEND

- 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 – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX T R — GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 1015

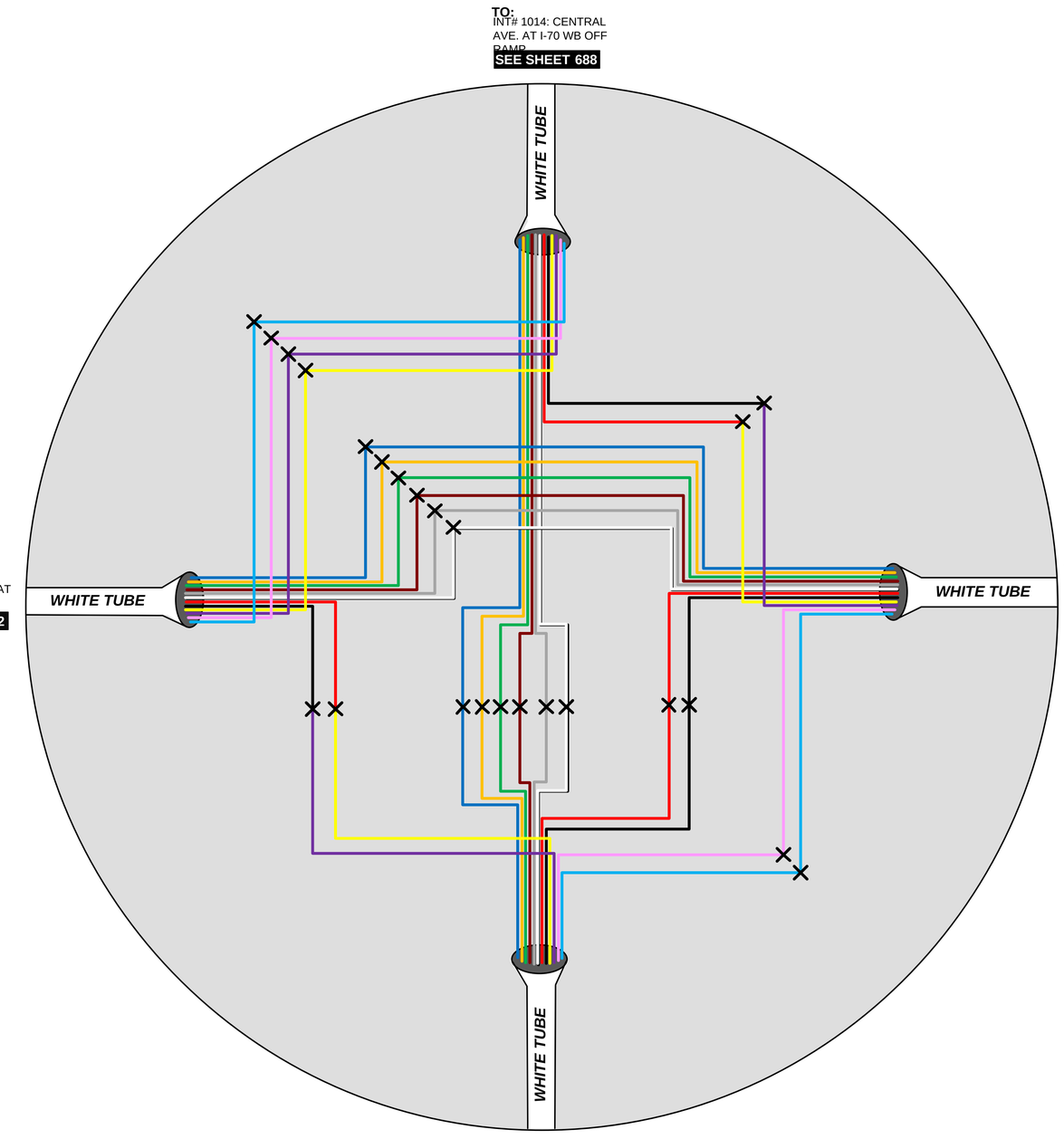
REFER TO SHEET 217 FOR CONSTRUCTION PLAN DETAILS

CIP: 540007 - 100005
PID NUMBER: 14522

INT# 1015: CENTRAL AVE. AT SULLIVANT AVE.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

674-688.vsd - 1015 layout – last saved 5/2/2017 3:49:21 PM – printed: 3/11/2016 12:05:57 PM



TO:
INT# 1014: CENTRAL AVE. AT I-70 WB OFF RAMP
SEE SHEET 688

TO:
SPLICE-03: IR-70 AT SULLIVANT AVE.
SEE SHEET 712

TO:
INT# 1073: GLENWOOD AVE. AT SULLIVANT AVE.
SEE SHEET 713

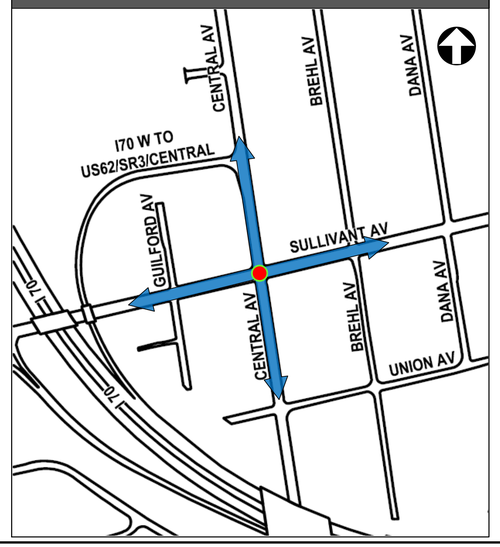
TO:
INT# 1016: CENTRAL AVE./HARRISBURG PIKE. AT MOUND ST.
SEE SHEET 684

INSET DETAIL A
SEE SHEET 686

LEGEND

- 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 – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- *LH/ZX* GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 1015
REFER TO SHEET 217 FOR CONSTRUCTION PLAN DETAILS

CIP: 540007 - 100005
PID NUMBER: 14522

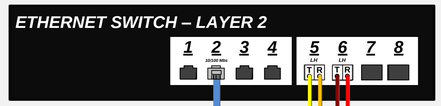
INT# 1015: CENTRAL AVE. AT SULLIVANT AVE.
COMMUNICATIONS DIAGRAM

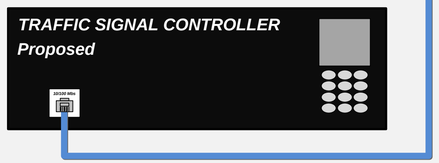
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

687
911

674-688.vsd - 1015-ODOT layout ~ last saved 5/2/2017 3:49:21 PM ~ printed: 3/11/2016 12:05:57 PM

TRAFFIC SIGNAL CABINET ASSEMBLY

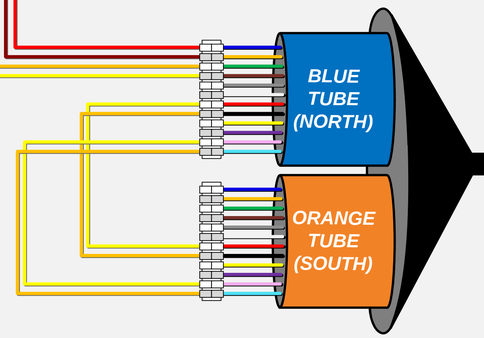




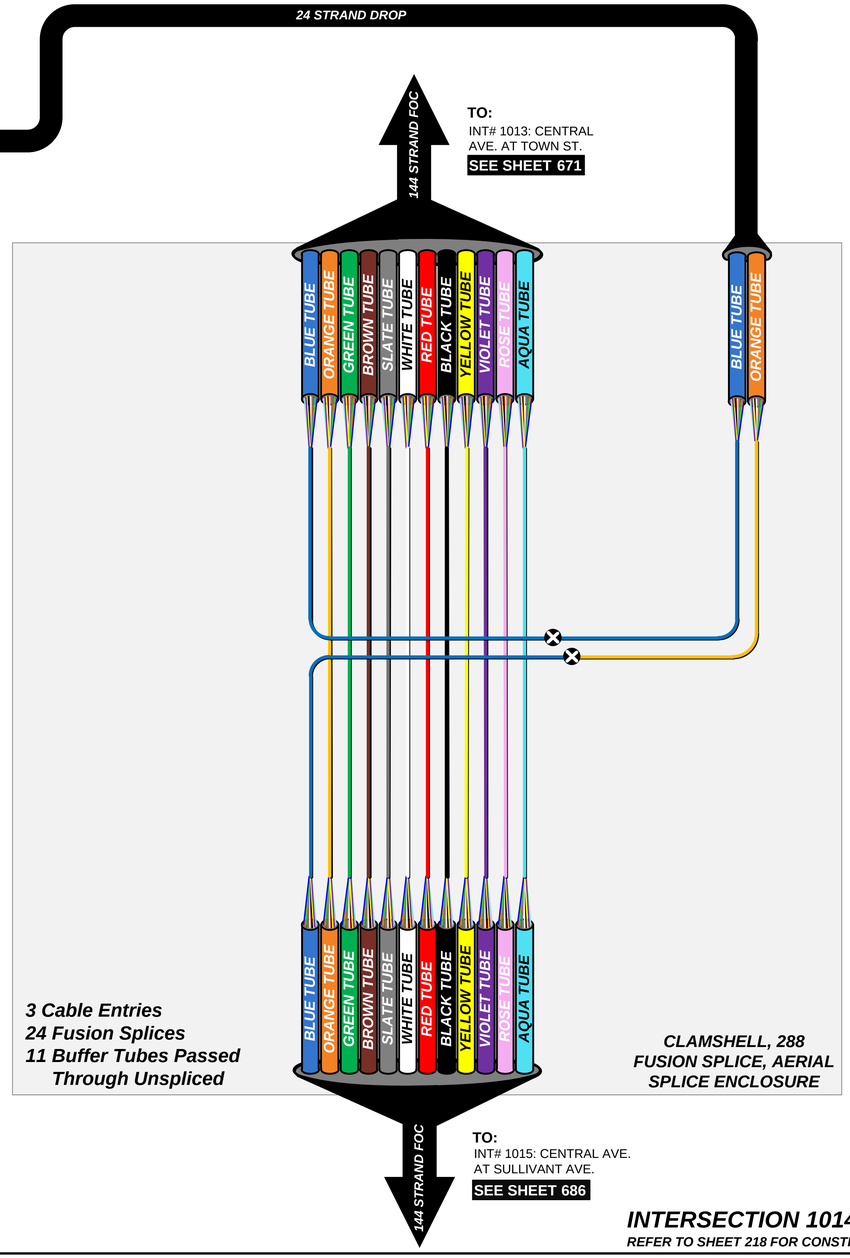
ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 1010: BROAD ST. AT CENTRAL AVE.
SEE SHEET 662

PORT 6: INT# 1058: DAVIS AVE. AT TOWN ST.
SEE SHEET 672



PATCH PANEL ENCLOSURE – 24 TERMINATION



LEGEND

- 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 – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 1014

REFER TO SHEET 218 FOR CONSTRUCTION PLAN DETAILS

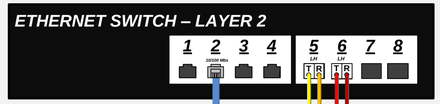
CIP: 540007 - 100005
PID NUMBER: 14522

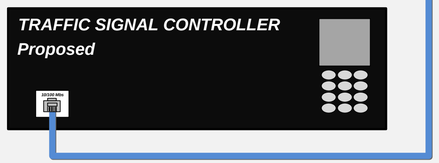
INT# 1014: CENTRAL AVE. AT I-70 WB OFF RAMP
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

674-688.vsd - 1014 layout ~ last saved 5/2/2017 3:49:21 PM ~ printed: 3/11/2016 12:05:57 PM

TRAFFIC SIGNAL CABINET ASSEMBLY

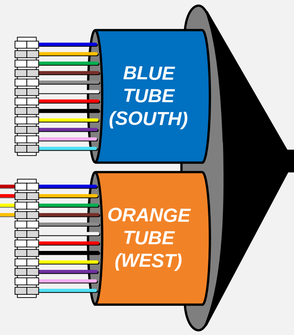


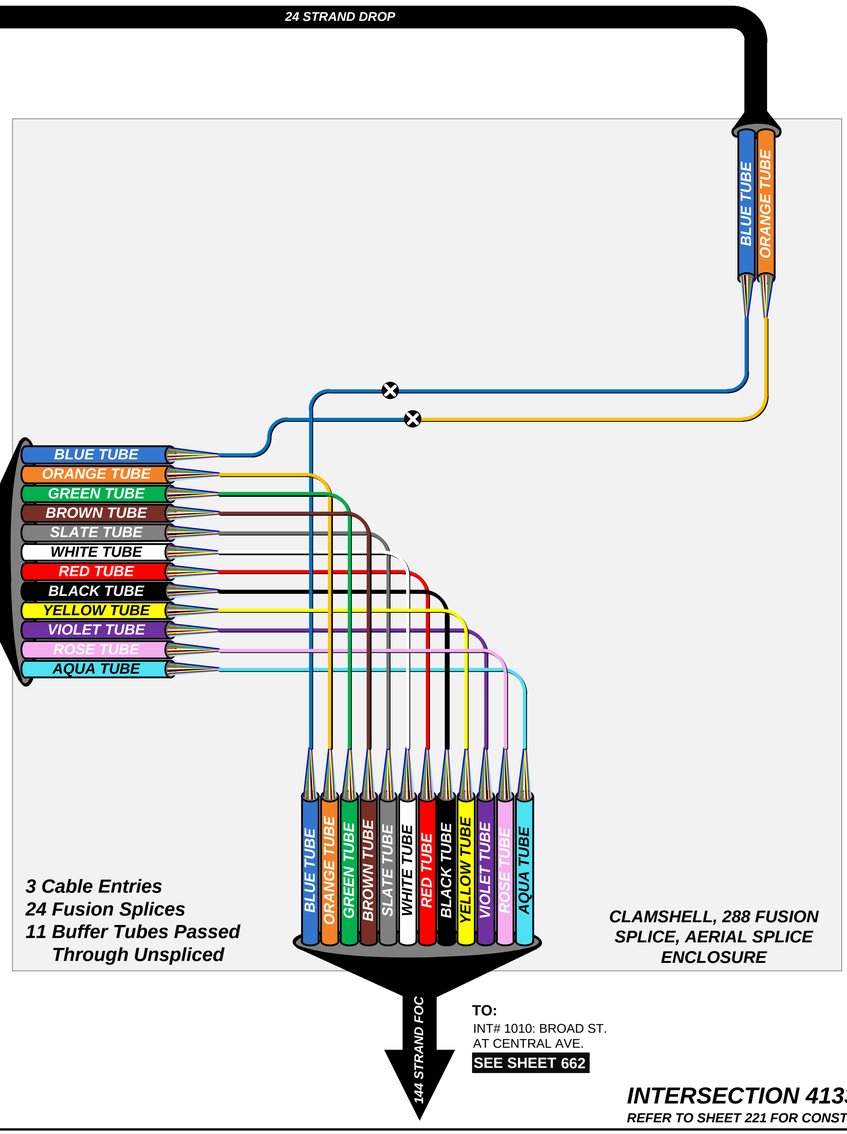


ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 4128: GRANDVIEW AVE. AT McKINLEY AVE.
SEE SHEET 690

PORT 6: INT# 4130: GRANDVIEW AVE. AT I-670 EB RAMPS
SEE SHEET 691



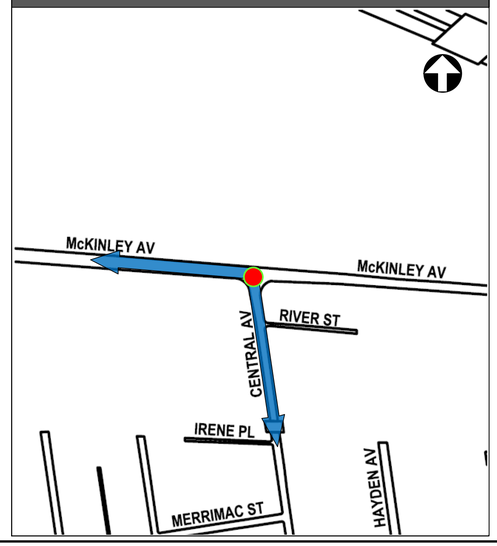


PATCH PANEL ENCLOSURE – 24 TERMINATION

LEGEND

- 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 – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 4133

REFER TO SHEET 221 FOR CONSTRUCTION PLAN DETAILS

CIP: 540007 - 100005
PID NUMBER: 14522

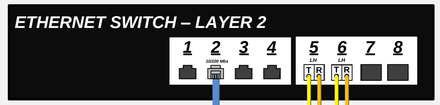
INT# 4133: CENTRAL AVE. AT McKINLEY AVE.
COMMUNICATIONS DIAGRAM

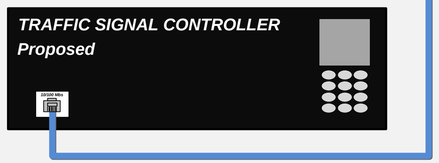
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

689
911

689-702.vsd - 4133 layout ~ last saved 5/2/2017 3:51:15 PM ~ printed: 3/11/2016 12:07:47 PM

TRAFFIC SIGNAL CABINET ASSEMBLY

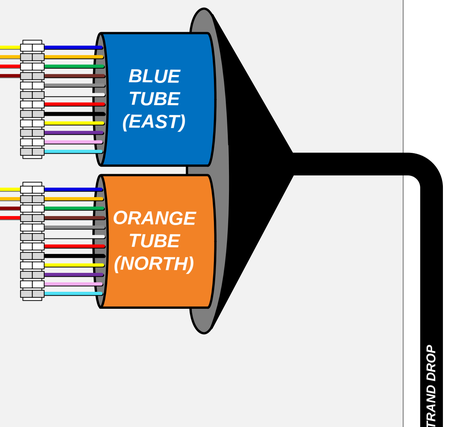




ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 4133: CENTRAL AVE. AT McKINLEY AVE.
SEE SHEET 689

PORT 6: PROPOSED COMMUNICATION NODE# 670001.4: GRANDVIEW AVE. AT IR-670
SEE SHEET 892

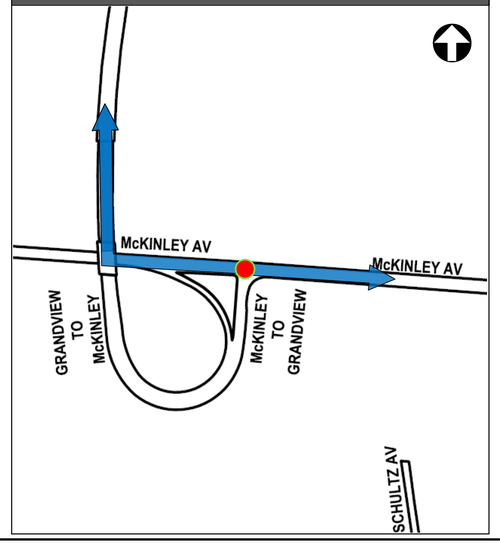


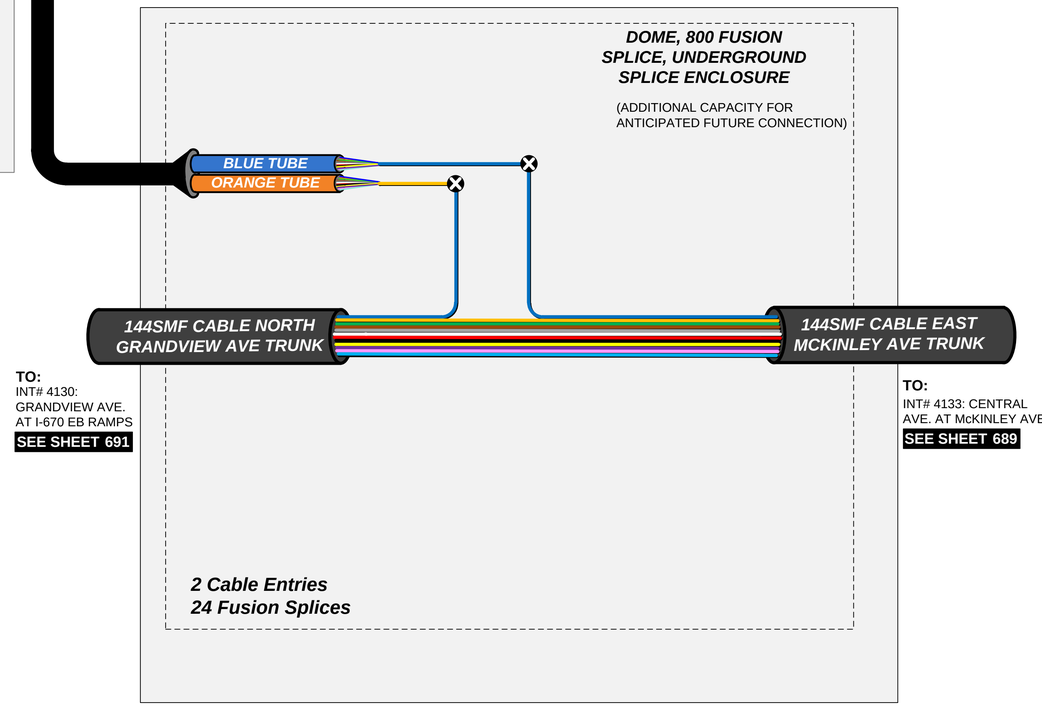
PATCH PANEL ENCLOSURE – 24 TERMINATION

LEGEND

- 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 – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

KEY PLAN





TO:
INT# 4130:
GRANDVIEW AVE.
AT I-670 EB RAMPS
SEE SHEET 691

TO:
INT# 4133: CENTRAL
AVE. AT McKINLEY AVE.
SEE SHEET 689

INTERSECTION 4128
REFER TO SHEET 223 FOR CONSTRUCTION PLAN DETAILS

CIP: 540007 - 100005
PID NUMBER: 14522

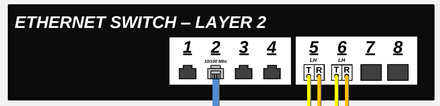
INT# 4128: GRANDVIEW AVE. AT McKINLEY AVE.
COMMUNICATIONS DIAGRAM

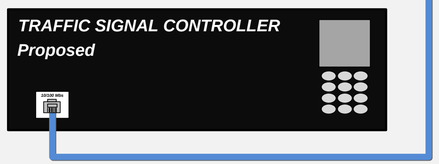
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

690
911

689-702.vsd - 4128 layout ~ last saved 5/2/2017 3:51:15 PM ~ printed: 3/11/2016 12:07:47 PM

TRAFFIC SIGNAL CABINET ASSEMBLY

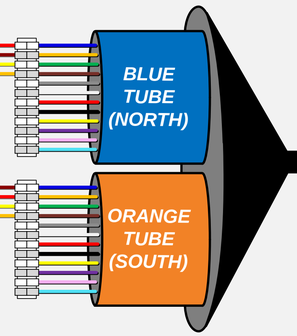




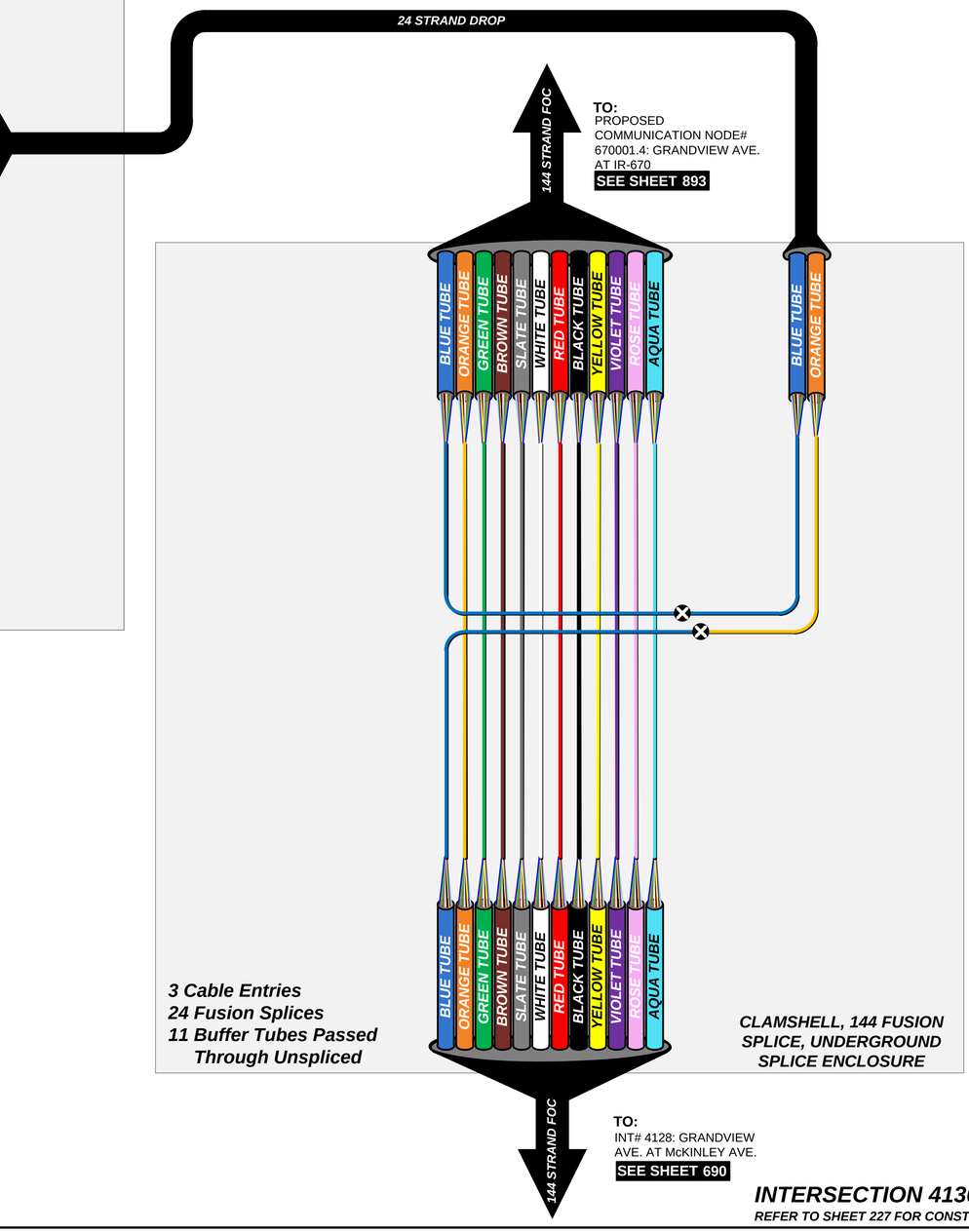
ETHERNET SWITCH PORT DESTINATION

PORT 5: PROPOSED COMMUNICATION NODE# 670001.4: GRANDVIEW AVE. AT IR-670
SEE SHEET 892

PORT 6: INT# 4133: CENTRAL AVE. AT McKINLEY AVE.
SEE SHEET 689



PATCH PANEL ENCLOSURE – 24 TERMINATION



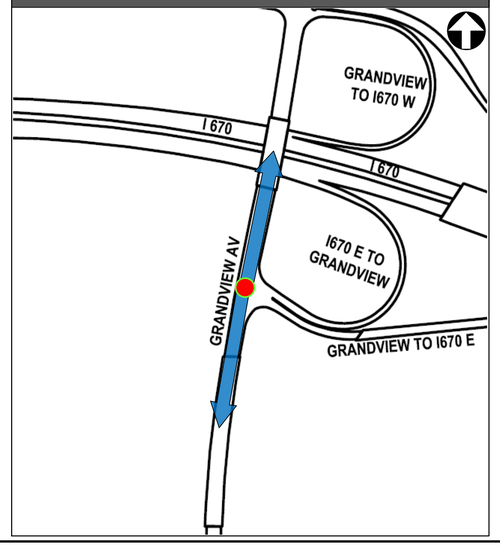
3 Cable Entries
24 Fusion Splices
11 Buffer Tubes Passed Through Unspliced

CLAMSHELL, 144 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE

LEGEND

- 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 – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 4130

REFER TO SHEET 227 FOR CONSTRUCTION PLAN DETAILS

CIP: 540007 - 100005
PID NUMBER: 14522

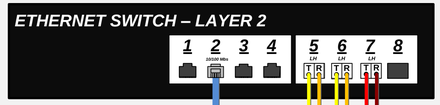
INT# 4130: GRANDVIEW AVE. AT I-670 EB RAMPS
COMMUNICATIONS DIAGRAM

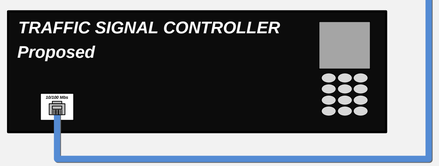
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

691
911

689-702.vsd - 4130 layout - last saved 5/2/2017 3:51:15 PM – printed: 3/11/2016 12:07:47 PM

TRAFFIC SIGNAL CABINET ASSEMBLY



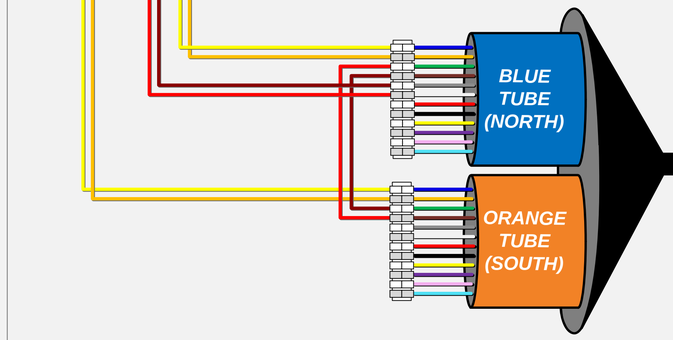


ETHERNET SWITCH PORT DESTINATION

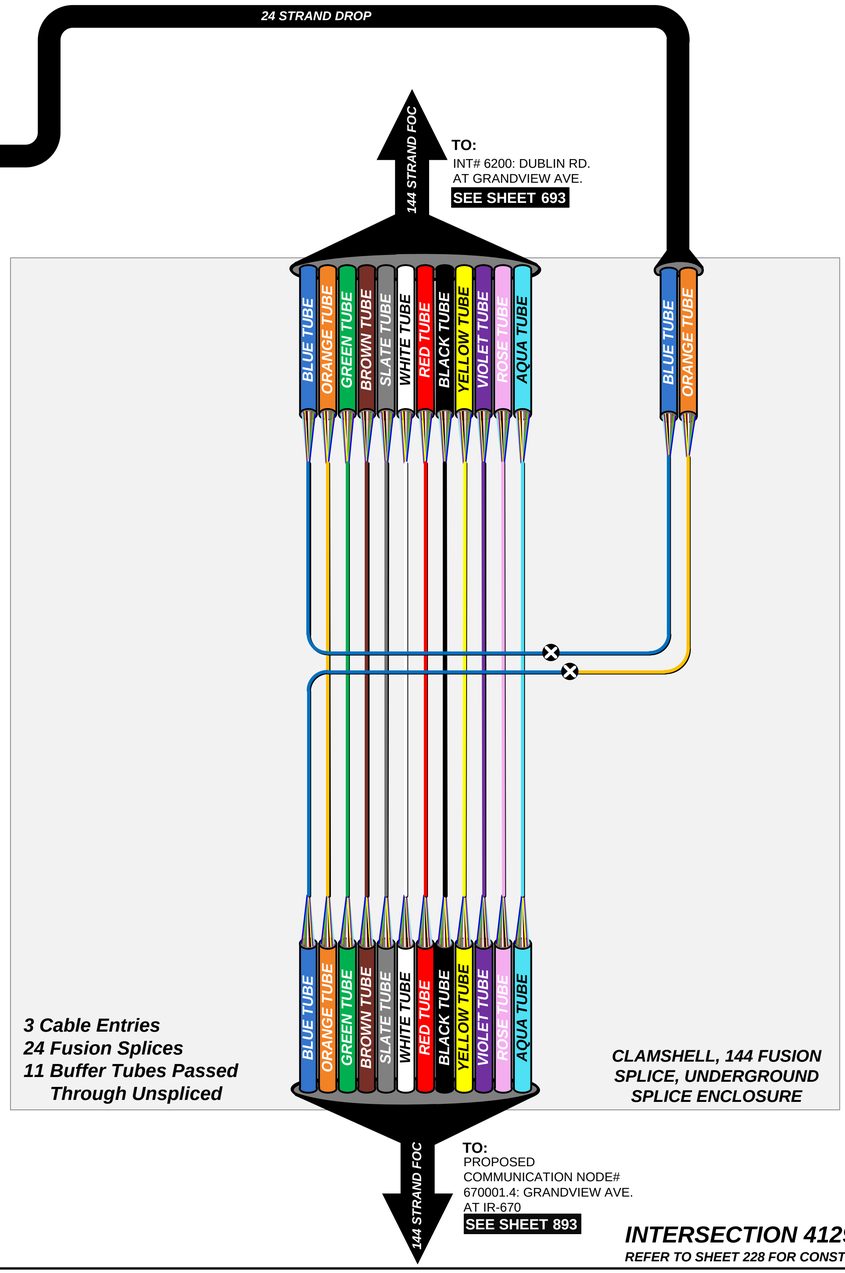
PORT 5: INT# 4131: DUBLIN RD. AT URLIN AVE.
SEE SHEET 694

PORT 6: PROPOSED COMMUNICATION NODE# 670001.4: GRANDVIEW AVE. AT IR-670
SEE SHEET 892

PORT 7: INT# 6200: DUBLIN RD. AT GRANDVIEW AVE.
SEE SHEET 693



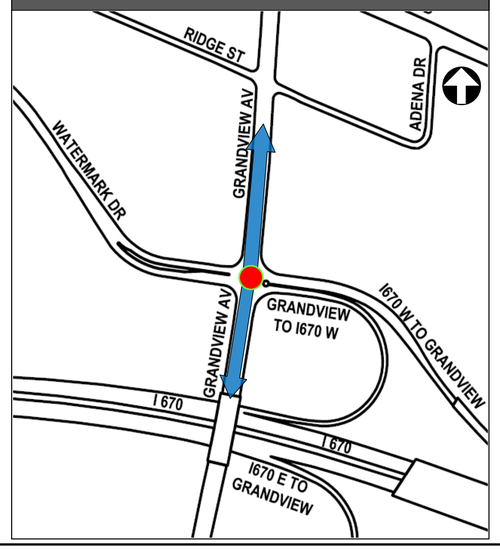
PATCH PANEL ENCLOSURE – 24 TERMINATION



LEGEND

- 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 – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 4129

REFER TO SHEET 228 FOR CONSTRUCTION PLAN DETAILS

CIP: 540007 - 100005
PID NUMBER: 14522

INT# 4129: GRANDVIEW AVE. AT I-670 WB RAMPS / WATERMARK DR.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

692
911

689-702.vsd - 4129 layout - last saved 5/2/2017 3:51:15 PM - printed: 3/11/2016 12:07:47 PM

TRAFFIC SIGNAL CABINET ASSEMBLY

ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 4129: GRANDVIEW AVE. AT I-670 WB RAMPS / WATERMARK DR.
SEE SHEET 692

ETHERNET SWITCH – LAYER 2

1 2 3 4 5 6 7 8

T R

EXISTING CCTV CABINET

CCTV FIELD BOX

VIDEO/PTZ IP DATA

CCTV/HEATER POWER

10/100 Mbs

ANALOG VIDEO

EXISTING COMPOSITE CCTV CABLE

EXISTING CCTV

TRAFFIC SIGNAL CONTROLLER
Ex. Econolite ASC/3-2100
City of Grandview Heights – not connected to CTSS

10/100 Mbs

BLUE TUBE (EAST)

ORANGE TUBE (WEST)

BLUE TUBE (SOUTH)

ORANGE TUBE (SPARE)

24 STRAND DROP

24 STRAND DROP

PATCH PANEL ENCLOSURES: (2) - 24 TERMINATION

BLUE TUBE
ORANGE TUBE

BLUE TUBE
ORANGE TUBE

144 STRAND FOC

TO:
INT# 4131: DUBLIN RD. AT URLIN AVE.
SEE SHEET 694

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# FCEO: DUBLIN RD. AT FCEO
SEE SHEET 897

5 Cable Entries
168 Fusion Splices
8 Coiled Buffer Tubes
2 Buffer Tubes Passed Through Unspliced

DOME, 800 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

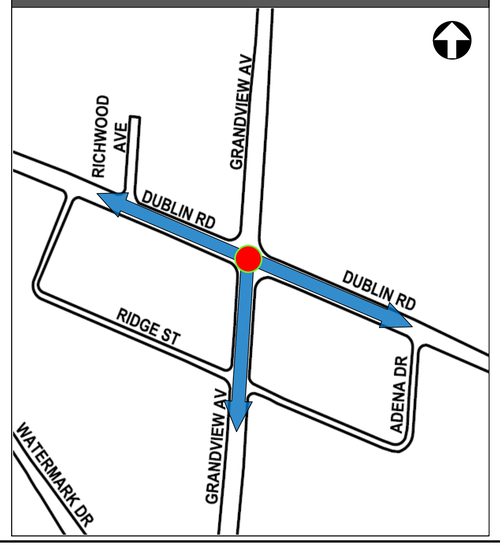
144 STRAND FOC

TO:
INT# 4129: GRANDVIEW AVE. AT I-670 WB RAMPS / WATERMARK DR.
SEE SHEET 692

LEGEND

- 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 – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 6200
REFER TO SHEET 234 FOR CONSTRUCTION PLAN DETAILS

CIP: 540007 - 100005
PID NUMBER: 14522

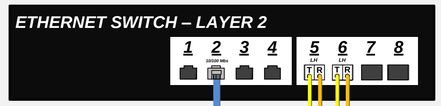
INT# 6200: DUBLIN RD. AT GRANDVIEW AVE.
COMMUNICATIONS DIAGRAM

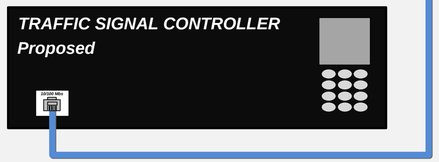
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

693
911

689-702.vsd - 6200 layout ~ last saved 5/2/2017 3:51:15 PM ~ printed: 3/11/2016 12:07:47 PM

TRAFFIC SIGNAL CABINET ASSEMBLY

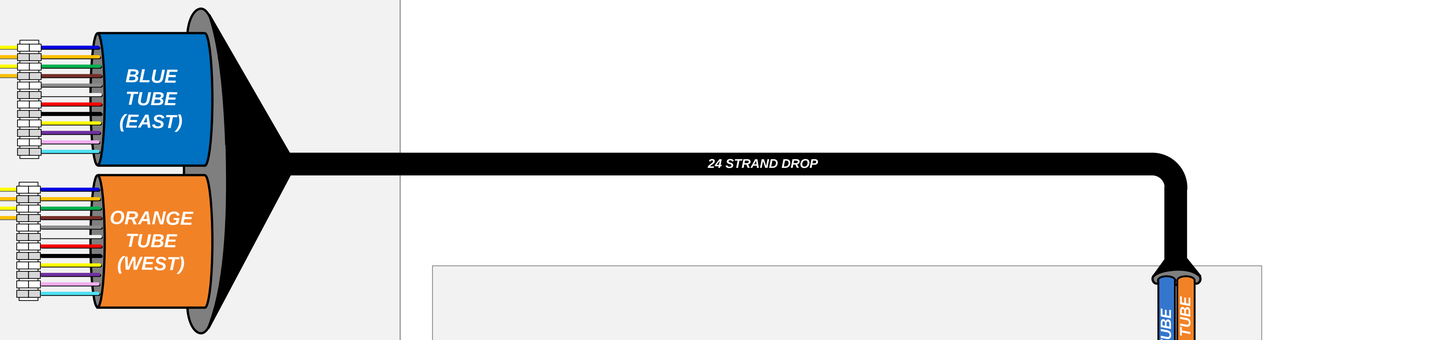




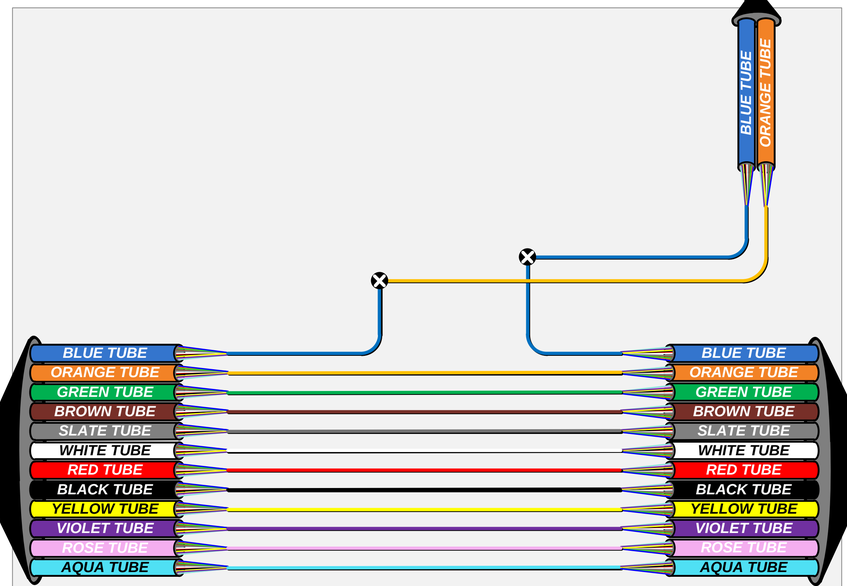
ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 4129: GRANDVIEW AVE. AT I-670 WB RAMPS / WATERMARK DR.
SEE SHEET 692

PORT 6: INT# 4132: DUBLIN RD. AT STELLA CT.
SEE SHEET 696



PATCH PANEL ENCLOSURE – 24 TERMINATION



TO:
INT# 4232: DUBLIN RD. AT I-670 EB RAMPS
SEE SHEET 695

TO:
INT# 6200: DUBLIN RD. AT GRANDVIEW AVE.
SEE SHEET 693

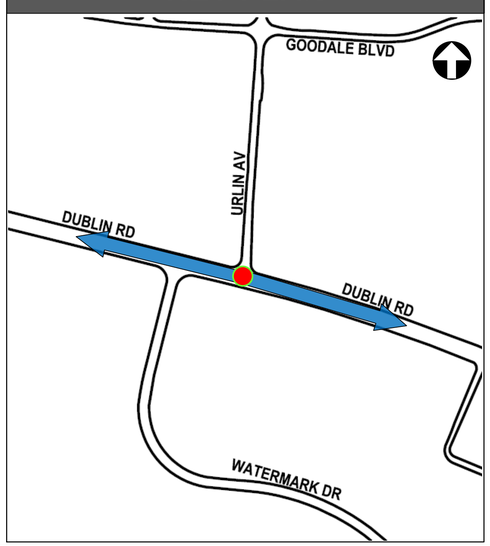
3 Cable Entries
24 Fusion Splices
11 Buffer Tubes Passed Through Unspliced

CLAMSHELL, 288 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 4131
REFER TO SHEET 233 FOR CONSTRUCTION PLAN DETAILS

CIP: 540007 - 100005
PID NUMBER: 14522

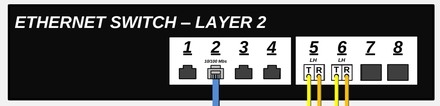
INT# 4131: DUBLIN RD. AT URLIN AVE.
COMMUNICATIONS DIAGRAM

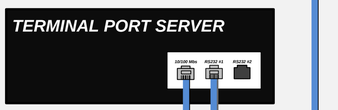
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

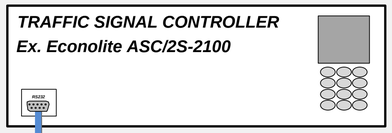
694
911

689-702.vsd - 4131 layout – last saved 5/2/2017 3:51:15 PM – printed: 3/11/2016 12:07:47 PM

TRAFFIC SIGNAL CABINET ASSEMBLY



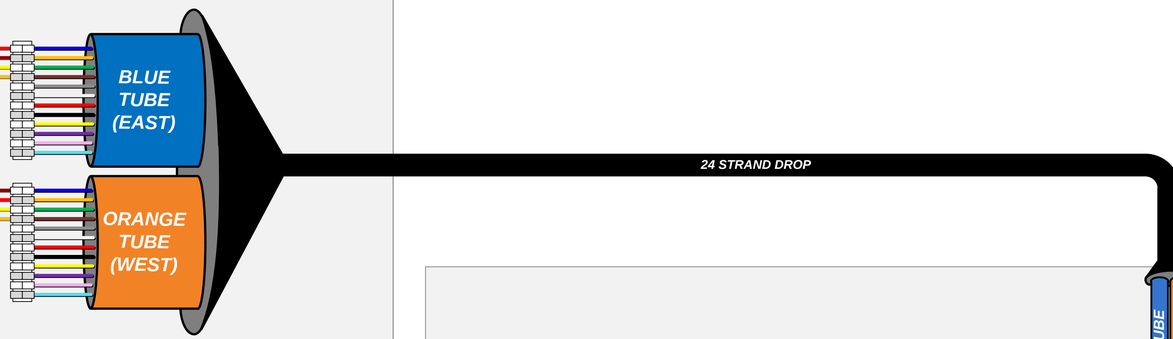




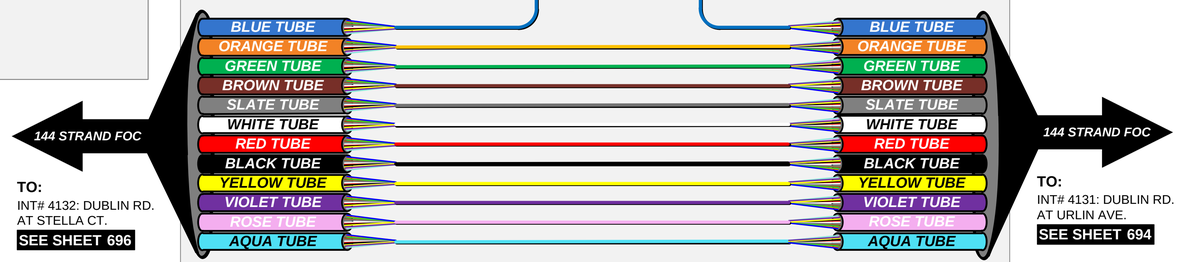
ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 6200: DUBLIN RD. AT GRANDVIEW AVE.
SEE SHEET 693

PORT 6: INT# 4132: DUBLIN RD. AT STELLA CT.
SEE SHEET 696



PATCH PANEL ENCLOSURE – 24 TERMINATION



TO:
INT# 4132: DUBLIN RD. AT STELLA CT.
SEE SHEET 696

TO:
INT# 4131: DUBLIN RD. AT URLIN AVE.
SEE SHEET 694

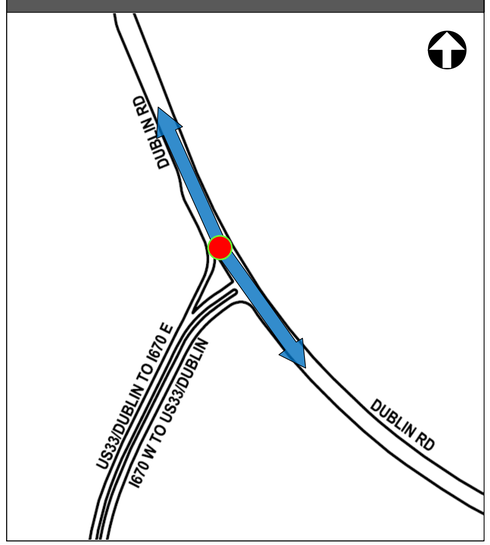
3 Cable Entries
24 Fusion Splices
11 Buffer Tubes Passed Through Unspliced

CLAMSHELL, 288 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX T R — GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 4232
REFER TO SHEET 231 FOR CONSTRUCTION PLAN DETAILS

CIP: 540007 - 100005
PID NUMBER: 14522

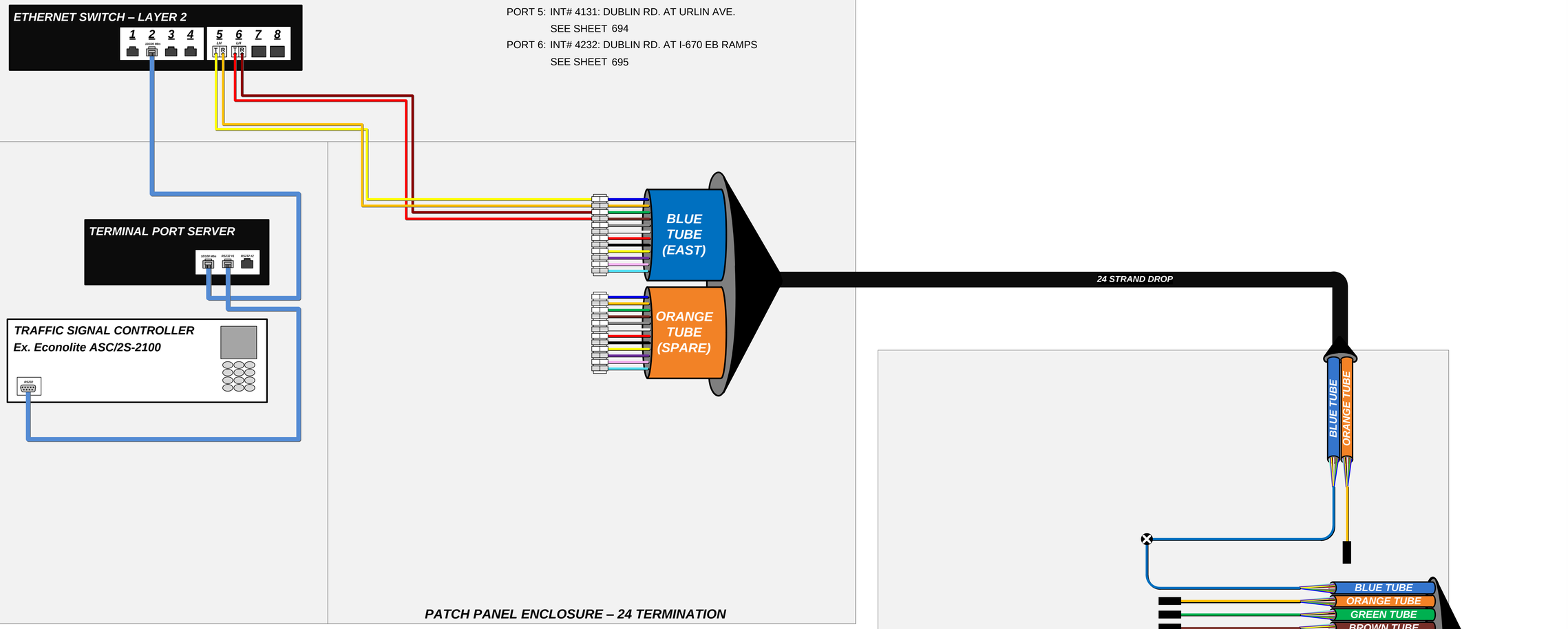
INT# 4232: DUBLIN RD. AT I-670 EB RAMPS
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

695
911

689-702.vsd - 4232 layout ~ last saved 5/2/2017 3:51:15 PM ~ printed: 3/11/2016 12:07:47 PM

TRAFFIC SIGNAL CABINET ASSEMBLY



ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 4131: DUBLIN RD. AT URLIN AVE.
SEE SHEET 694

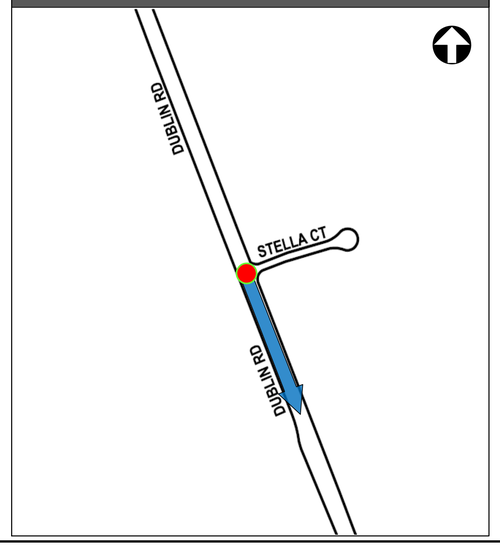
PORT 6: INT# 4232: DUBLIN RD. AT I-670 EB RAMPS
SEE SHEET 695

PATCH PANEL ENCLOSURE – 24 TERMINATION

LEGEND

- 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 – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 4132

REFER TO SHEET 230 FOR CONSTRUCTION PLAN DETAILS

CIP: 540007 - 100005
PID NUMBER: 14522

INT# 4132: DUBLIN RD. AT STELLA CT.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

696
911

689-702.vsd - 4132 layout ~ last saved 5/2/2017 3:51:15 PM ~ printed 3/11/2016 12:07:47 PM

TRAFFIC SIGNAL CABINET ASSEMBLY

EXISTING ETHERNET SWITCH – LAYER 2

1 2 3 4 — 10/100 Mbs
5 6 7 8 — LH T/R, 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# SIG4140: GEORGESVILLE RD. AT LINCOLN PARK CT.

PORT 6: EXISTING CONNECTION TO INT# 1036: GEORGESVILLE RD. AT SULLIVANT AVE. SOUTH.

PROPOSED PATCH PANEL ENCLOSURE – 24 TERMINATION

BLUE TUBE (EAST)
ORANGE TUBE (SPARE)
BLUE TUBE (NORTH)
ORANGE TUBE (SOUTH)

EXISTING PATCH PANEL ENCLOSURE – 24 TERMINATION

24 STRAND DROP

EXISTING 24 STRAND DROP

144 STRAND FOC

TO:
EXISTING CONNECTION
INT# GEOIND:
GEORGESVILLE RD. AT
INDUSTRIAL MILE RD.

DOME, 800 FUSION SPLICE, AERIAL 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

5 Cable Entries
144 Proposed Fusion Splices
24 Existing Fusion Splices
6 Coiled Buffer Tubes
3 Buffer Tubes Passed Through Unspliced

144 STRAND FOC

TO:
INT# 1032: HOLLY HILL DR. AT SULLIVANT AVE.
SEE SHEET 698

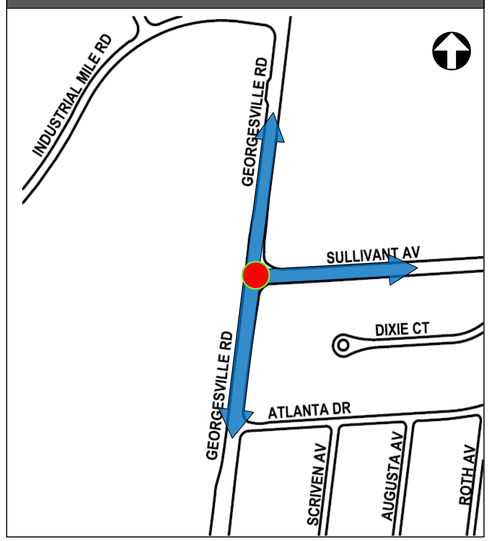
144 STRAND FOC

TO:
EXISTING CONNECTION
INT# 1035: ATLANTA DR.
AT GEORGESVILLE RD.

LEGEND

- 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 – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- *LH/ZX* GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 1034
REFER TO SHEET 100 FOR CONSTRUCTION PLAN DETAILS

CIP: 540007 - 100005
PID NUMBER: 14522

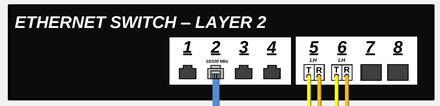
INT# 1034: GEORGESVILLE RD. AT SULLIVANT AVE.
COMMUNICATIONS DIAGRAM

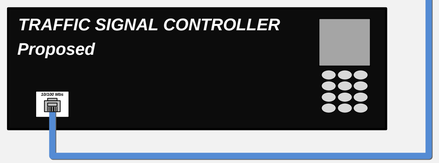
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

697
911

689-702.vsd - 1034-Phase B layout ~ last saved 5/2/2017 3:51:15 PM ~ printed: 3/11/2016 12:07:47 PM

TRAFFIC SIGNAL CABINET ASSEMBLY

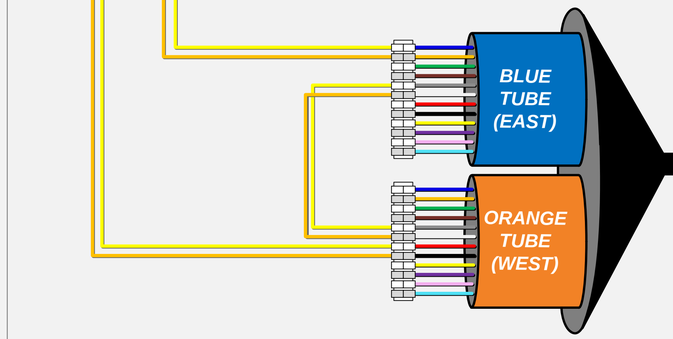


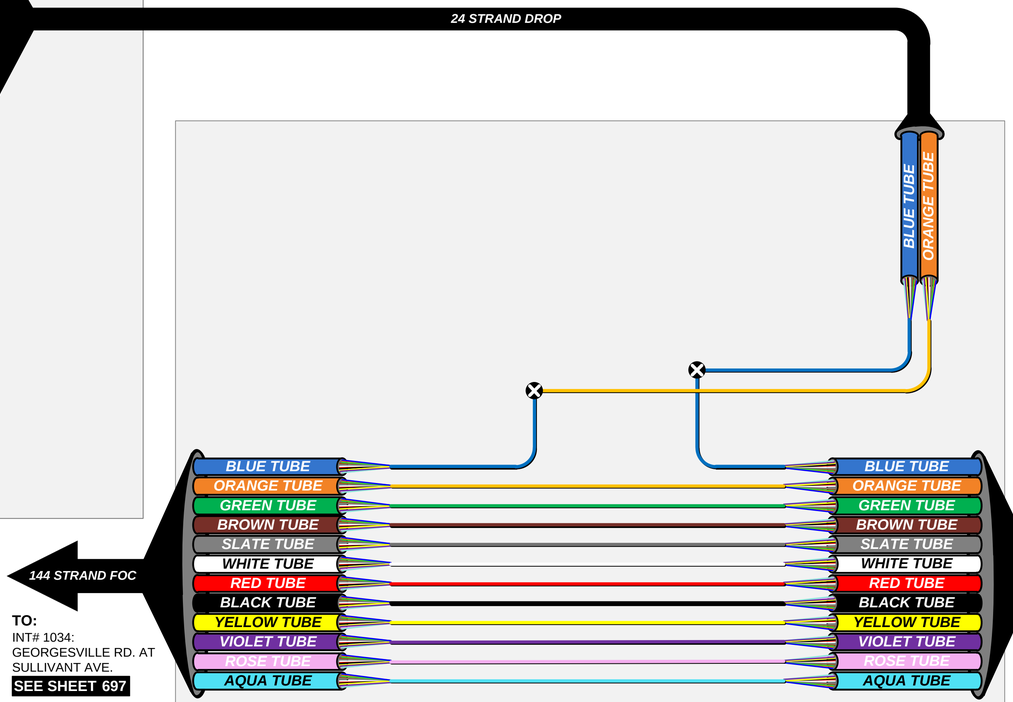


ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 1031: KINGSFORD RD./WILSON RD. AT SULLIVANT AVE.
SEE SHEET 700

PORT 6: EXISTING COMMUNICATION NODE# 270004.5:
GEORGESVILLE RD. AT IR-270
SEE SHEET 883





TO:
INT# 1034:
GEORGESVILLE RD. AT SULLIVANT AVE.
SEE SHEET 697

TO:
INT# 1110:
SULLIVANT AVE. AT WEDGEWOOD DR.
SEE SHEET 699

3 Cable Entries
24 Fusion Splices
11 Buffer Tubes Passed Through Unspliced

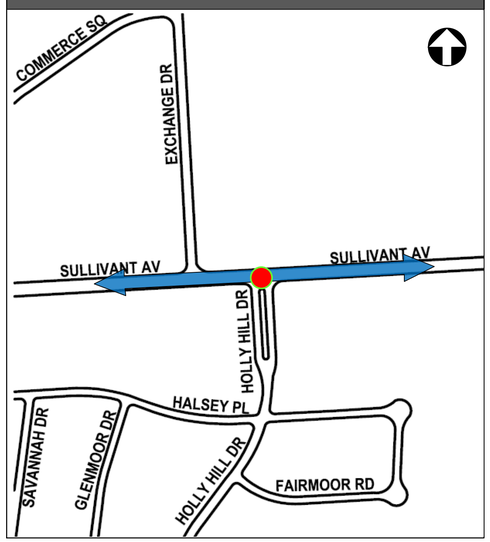
CLAMSHELL, 288 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

PATCH PANEL ENCLOSURE – 24 TERMINATION

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 1032
REFER TO SHEET 102 FOR CONSTRUCTION PLAN DETAILS

CIP: 540007 - 100005
PID NUMBER: 14522

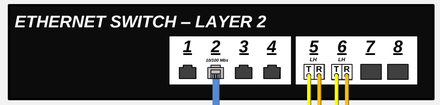
INT# 1032: HOLLY HILL DR. AT SULLIVANT AVE.
COMMUNICATIONS DIAGRAM

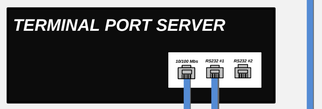
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

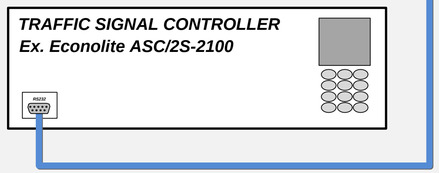
698
911

689-702.vsd - 1032 layout – last saved 5/2/2017 3:51:15 PM – printed: 3/11/2016 12:07:47 PM

TRAFFIC SIGNAL CABINET ASSEMBLY



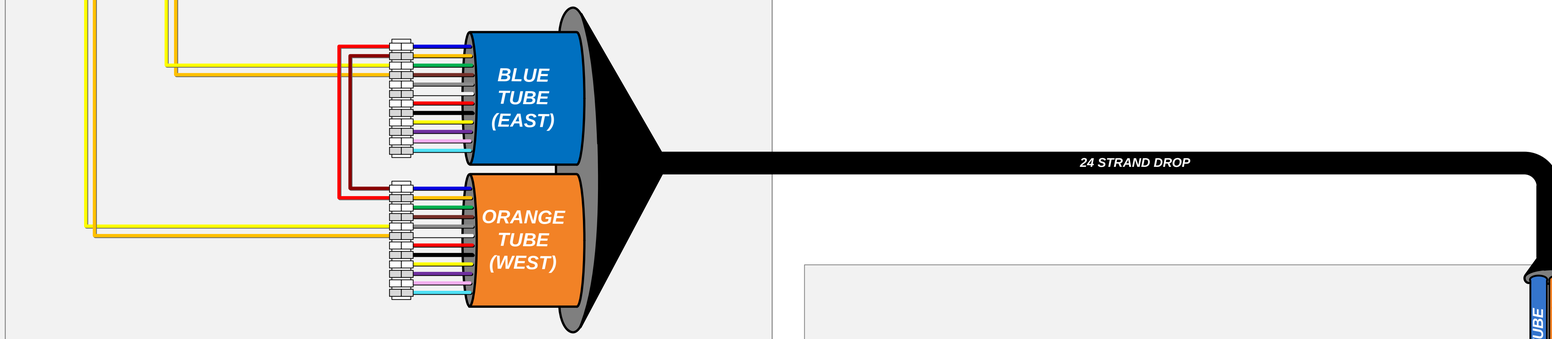


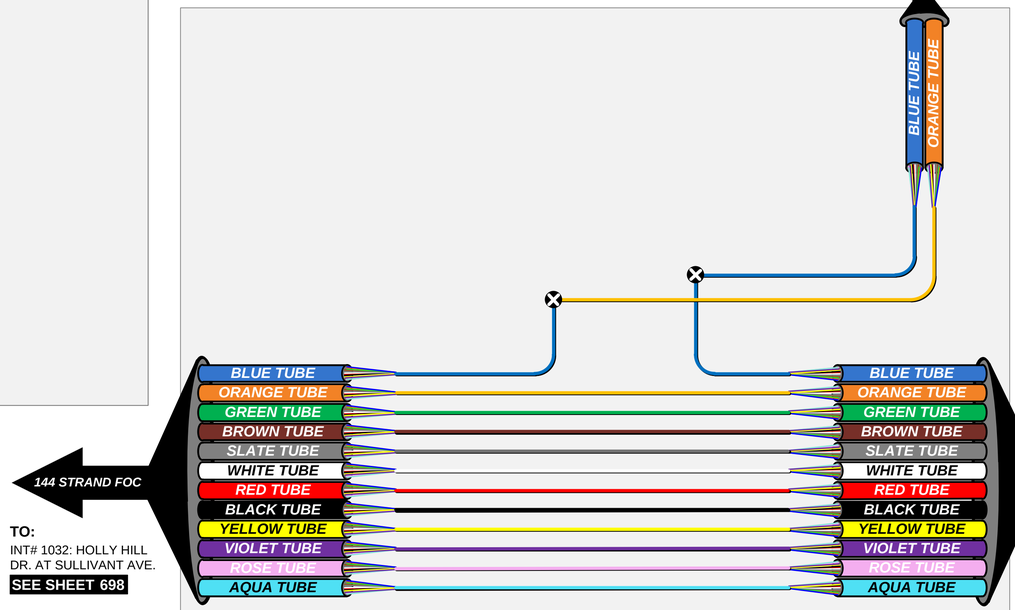


ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 1030: DEMOREST RD. AT SULLIVANT AVE.
SEE SHEET 701

PORT 6: EXISTING COMMUNICATION NODE# 270004.5:
GEORGESVILLE RD. AT IR-270
SEE SHEET 883





TO:
INT# 1032: HOLLY HILL DR. AT SULLIVANT AVE.
SEE SHEET 698

TO:
INT# 1031: KINGSFORD RD./WILSON RD. AT SULLIVANT AVE.
SEE SHEET 700

3 Cable Entries
24 Fusion Splices
11 Buffer Tubes Passed Through Unspliced

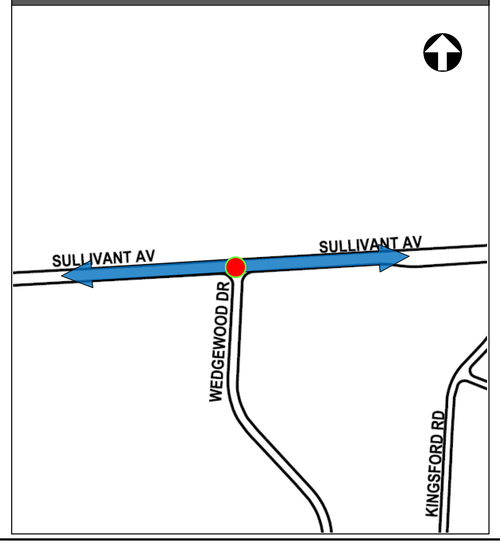
CLAMSHELL, 288 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

PATCH PANEL ENCLOSURE – 24 TERMINATION

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 1110
REFER TO SHEET 103 FOR CONSTRUCTION PLAN DETAILS

CIP: 540007 - 100005
PID NUMBER: 14522

INT# 1110: SULLIVANT AVE. AT WEDGEWOOD DR.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

699
911

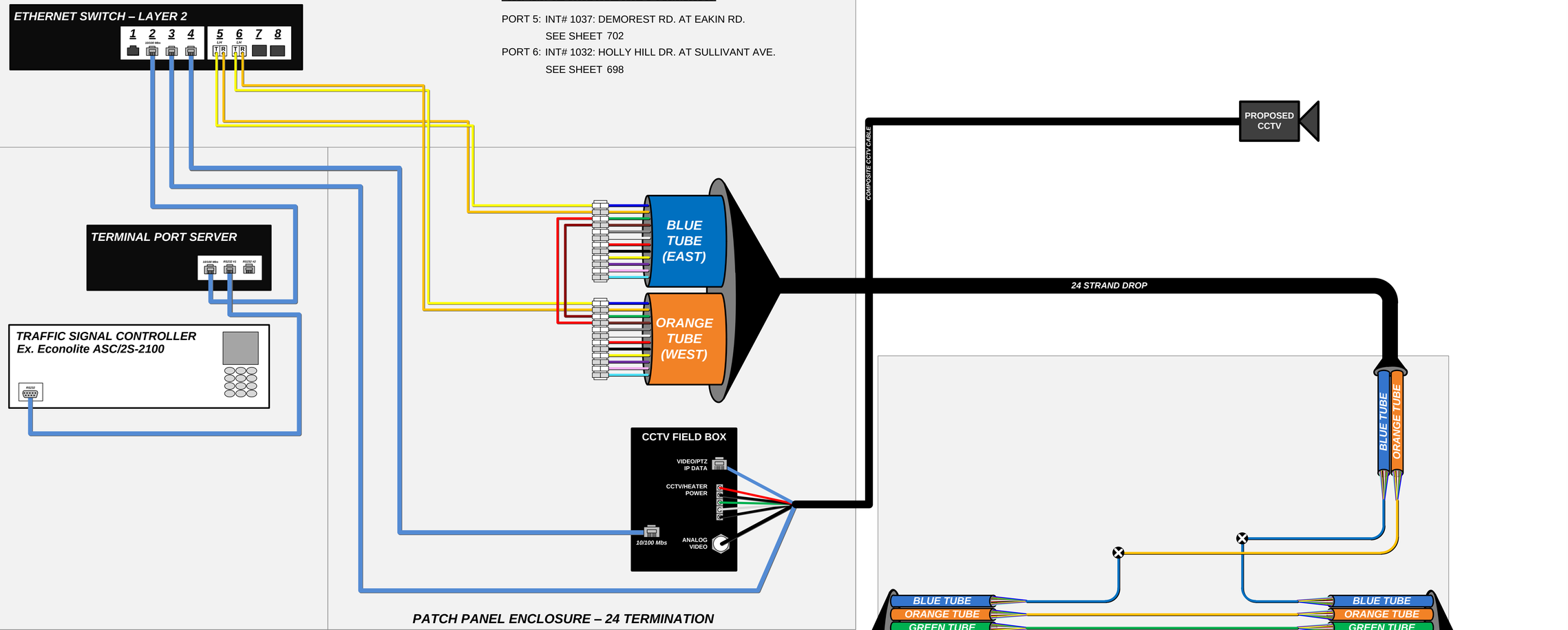
689-702.vsd - 1110 layout - last saved 5/2/2017 3:51:15 PM - printed: 3/11/2016 12:07:47 PM

TRAFFIC SIGNAL CABINET ASSEMBLY

ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 1037: DEMOREST RD. AT EAKIN RD.
SEE SHEET 702

PORT 6: INT# 1032: HOLLY HILL DR. AT SULLIVANT AVE.
SEE SHEET 698



LEGEND

- 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 – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 1031

REFER TO SHEET 104 FOR CONSTRUCTION PLAN DETAILS

CIP: 540007 - 100005
PID NUMBER: 14522

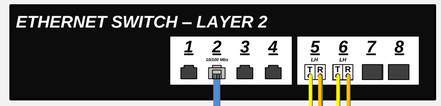
INT# 1031: KINGSFORD RD./WILSON RD. AT SULLIVANT AVE.
COMMUNICATIONS DIAGRAM

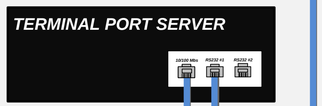
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

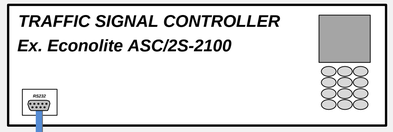
700
911

689-702.vsd - 1031 layout ~ last saved 5/2/2017 3:51:15 PM ~ printed: 3/11/2016 12:07:47 PM

TRAFFIC SIGNAL CABINET ASSEMBLY



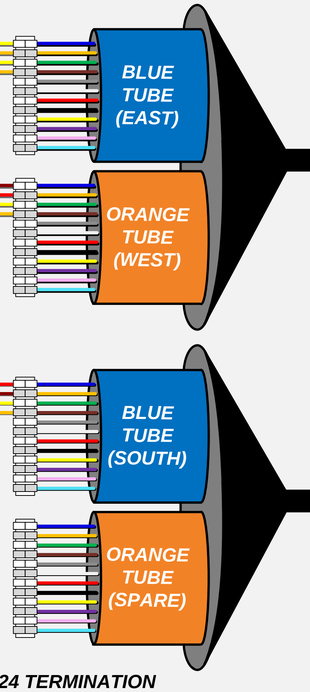




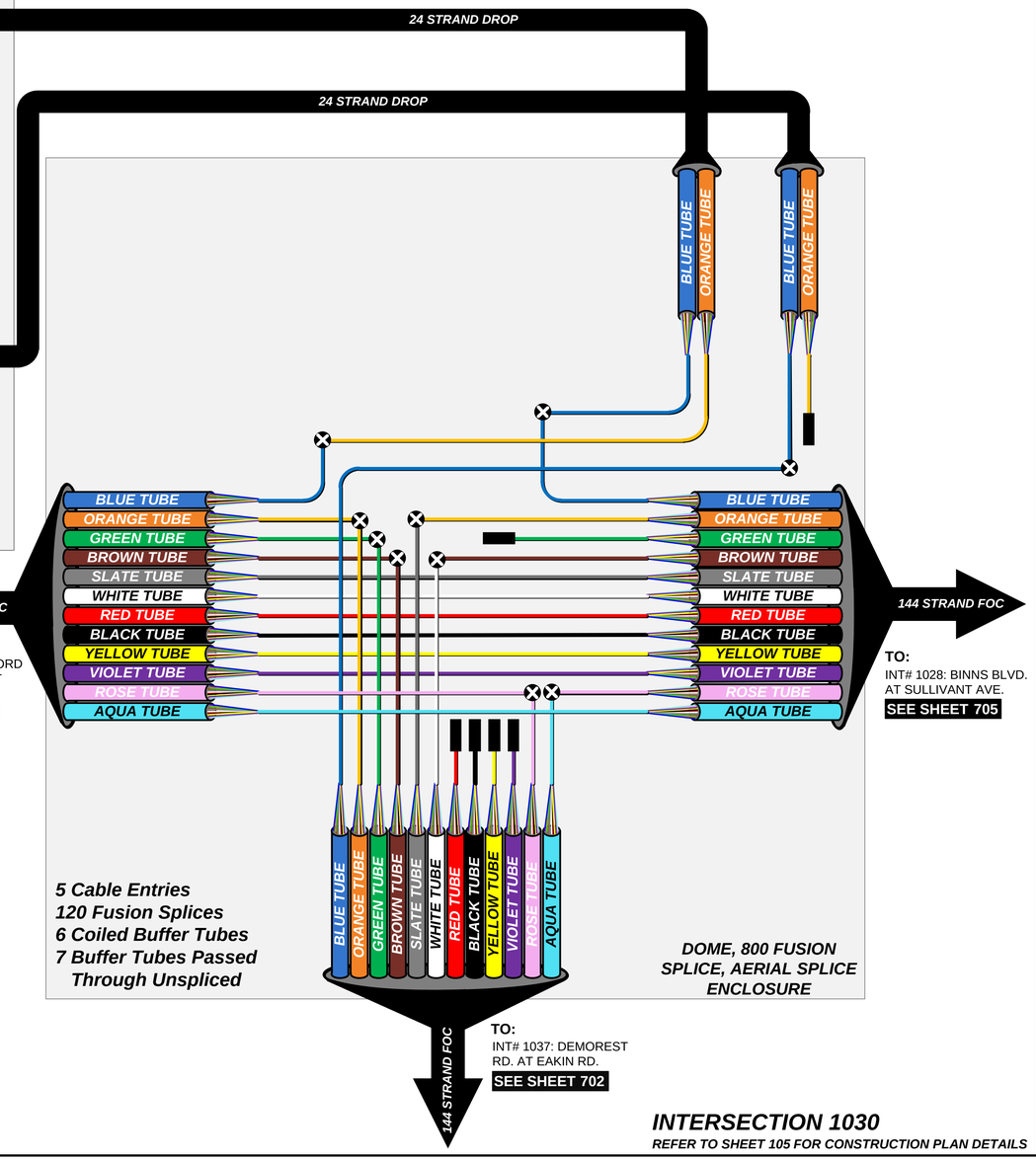
ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 1027: HAGUE AVE. AT SULLIVANT AVE.
SEE SHEET 706

PORT 6: INT# 1110: SULLIVANT AVE. AT WEDGEWOOD DR.
SEE SHEET 699



PATCH PANEL ENCLOSURES: (2) - 24 TERMINATION



TO:
INT# 1031: KINGSFORD RD./WILSON RD. AT SULLIVANT AVE.
SEE SHEET 700

TO:
INT# 1028: BINNS BLVD. AT SULLIVANT AVE.
SEE SHEET 705

5 Cable Entries
120 Fusion Splices
6 Coiled Buffer Tubes
7 Buffer Tubes Passed Through Unspliced

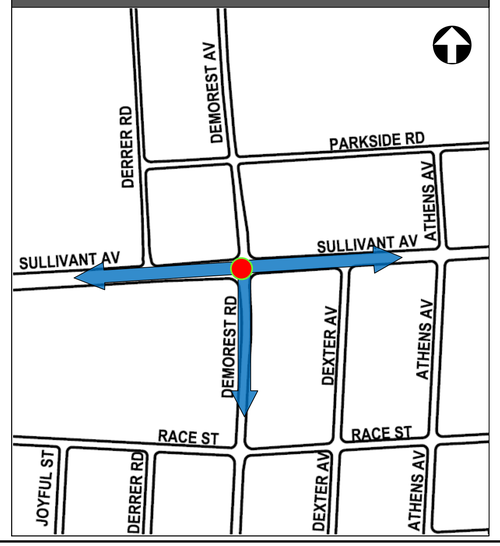
DOME, 800 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

TO:
INT# 1037: DEMOREST RD. AT EAKIN RD.
SEE SHEET 702

LEGEND

- 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 – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX — GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 1030

REFER TO SHEET 105 FOR CONSTRUCTION PLAN DETAILS

CIP: 540007 - 100005
PID NUMBER: 14522

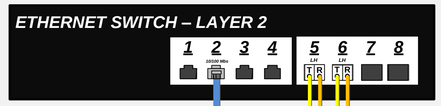
INT# 1030: DEMOREST RD. AT SULLIVANT AVE.
COMMUNICATIONS DIAGRAM

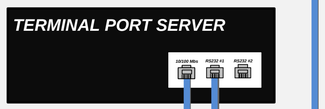
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

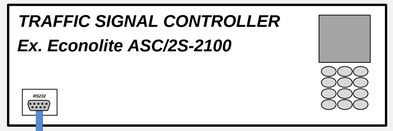
701
911

689-702.vsd - 1030 layout - last saved 5/2/2017 3:51:15 PM - printed: 3/11/2016 12:07:47 PM

TRAFFIC SIGNAL CABINET ASSEMBLY



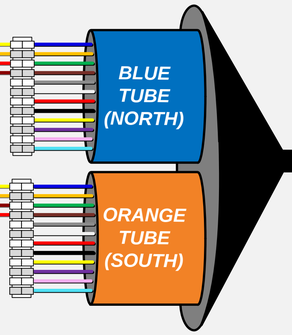


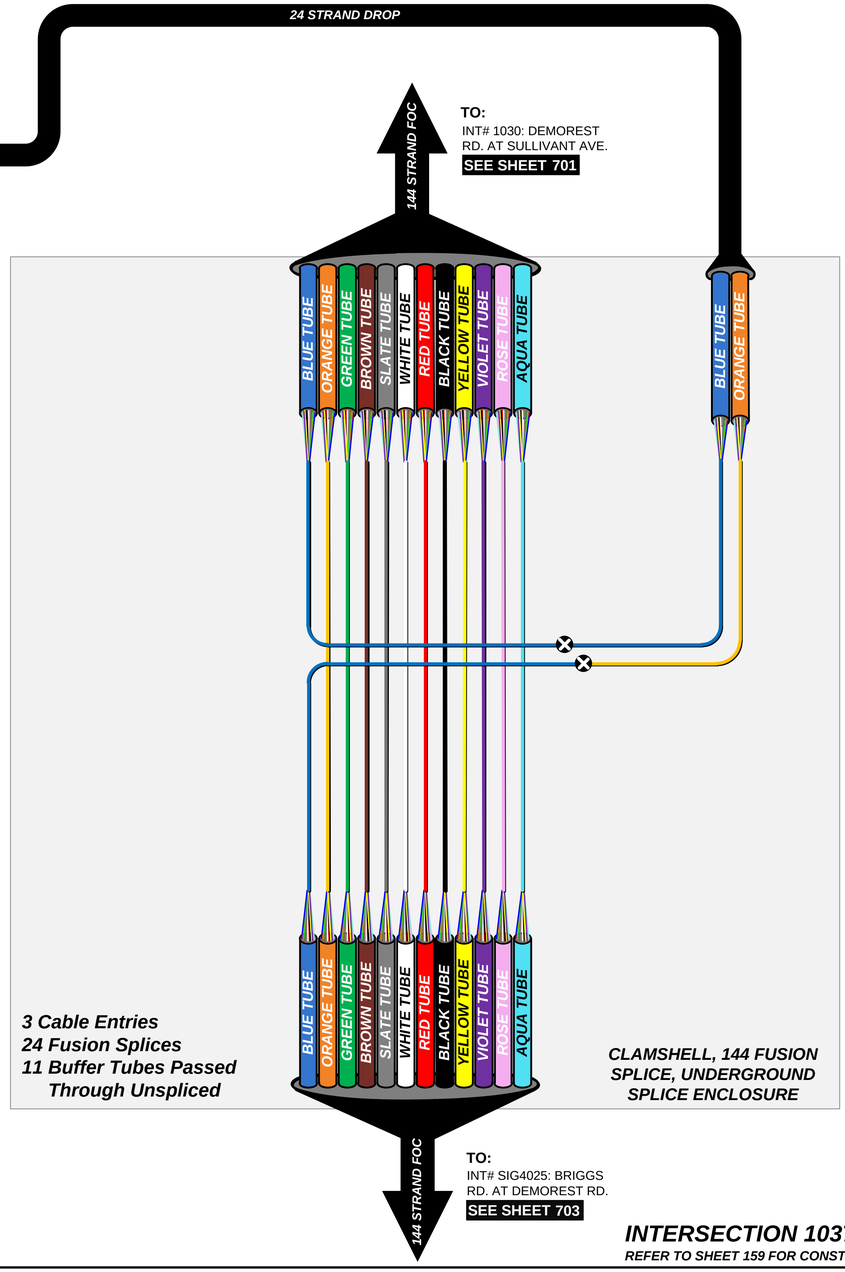


ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 1031: KINGSFORD RD./WILSON RD. AT SULLIVANT AVE.
SEE SHEET 700

PORT 6: INT# 1092: CLIME RD. AT DEMOREST RD.
SEE SHEET 704





PATCH PANEL ENCLOSURE – 24 TERMINATION

LEGEND

- 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 – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 1037

REFER TO SHEET 159 FOR CONSTRUCTION PLAN DETAILS

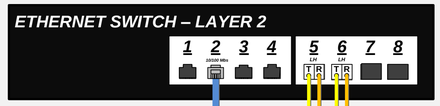
CIP: 540007 - 100005
PID NUMBER: 14522

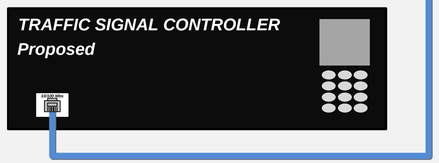
INT# 1037: DEMOREST RD. AT EAKIN RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

689-702.vsd - 1037 layout ~ last saved 5/2/2017 3:51:15 PM ~ printed: 3/11/2016 12:07:47 PM

TRAFFIC SIGNAL CABINET ASSEMBLY

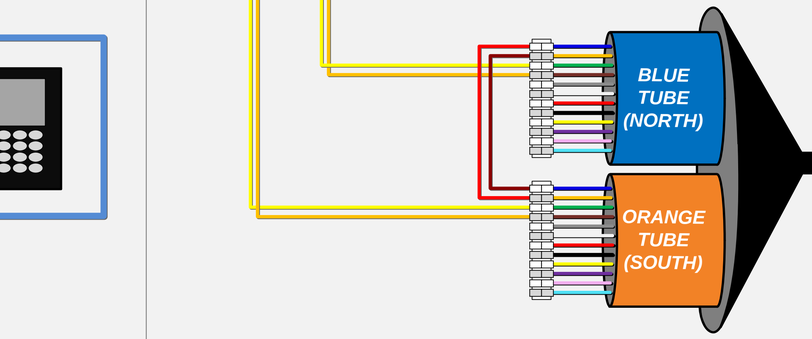




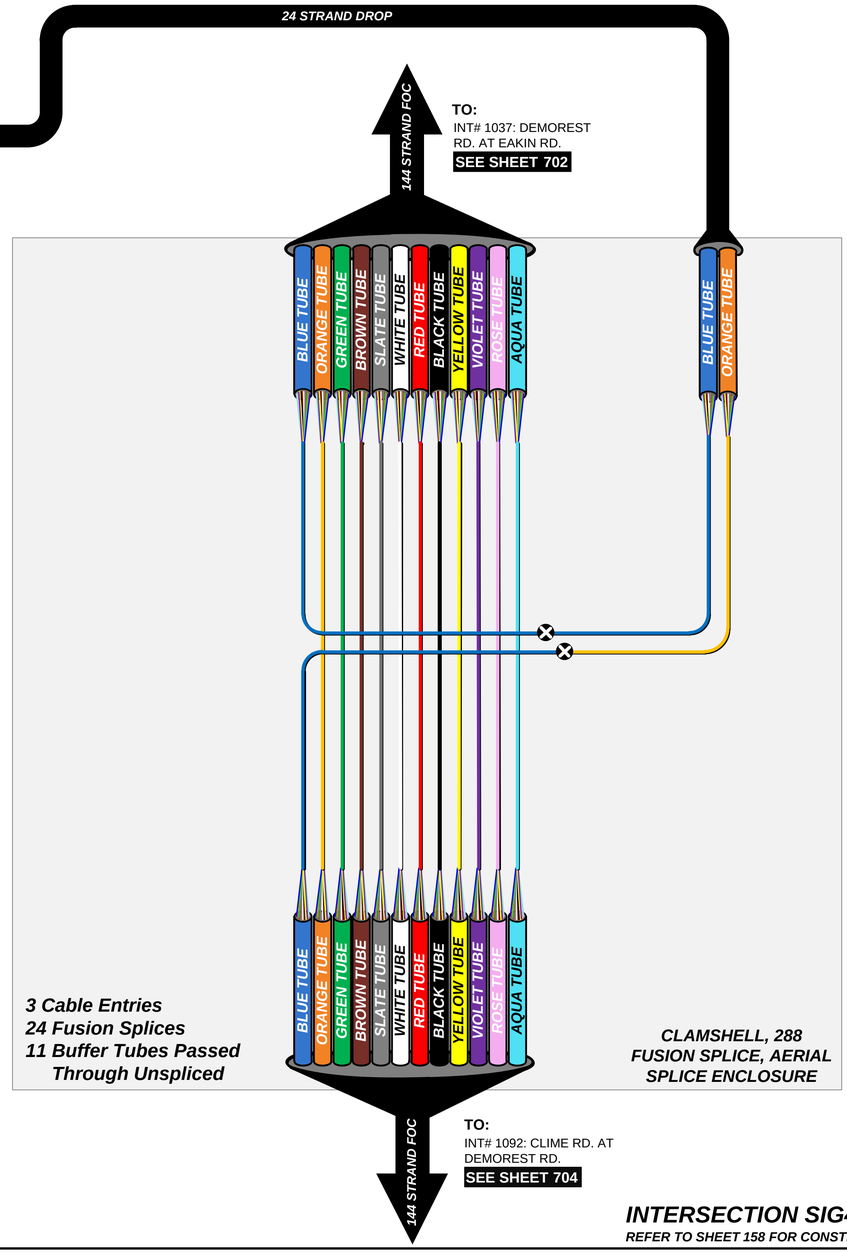
ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 1027: HAGUE AVE. AT SULLIVANT AVE.
SEE SHEET 706

PORT 6: INT# 1092: CLIME RD. AT DEMOREST RD.
SEE SHEET 704



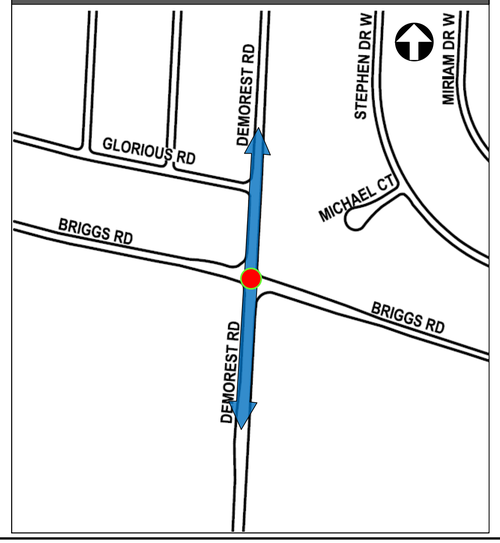
PATCH PANEL ENCLOSURE – 24 TERMINATION



LEGEND

- 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 – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION SIG4025

REFER TO SHEET 158 FOR CONSTRUCTION PLAN DETAILS

CIP: 540007 - 100005
PID NUMBER: 14522

INT# SIG4025: BRIGGS RD. AT DEMOREST RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

703
911

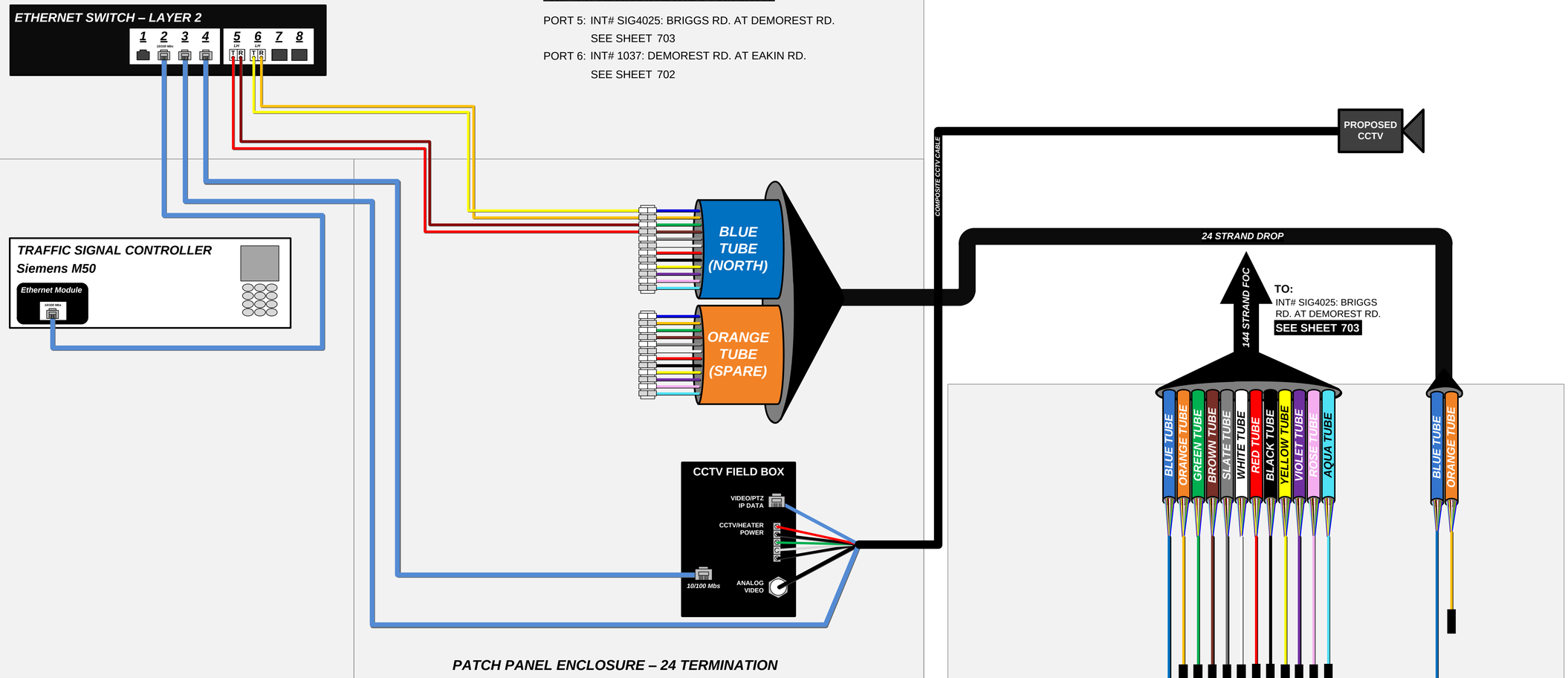
703-714.vsd - SIG4025 layout ~ last saved 5/2/2017 3:52:52 PM ~ printed: 3/11/2016 12:10:19 PM

TRAFFIC SIGNAL CABINET ASSEMBLY

ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# SIG4025: BRIGGS RD. AT DEMOREST RD.
SEE SHEET 703

PORT 6: INT# 1037: DEMOREST RD. AT EAKIN RD.
SEE SHEET 702

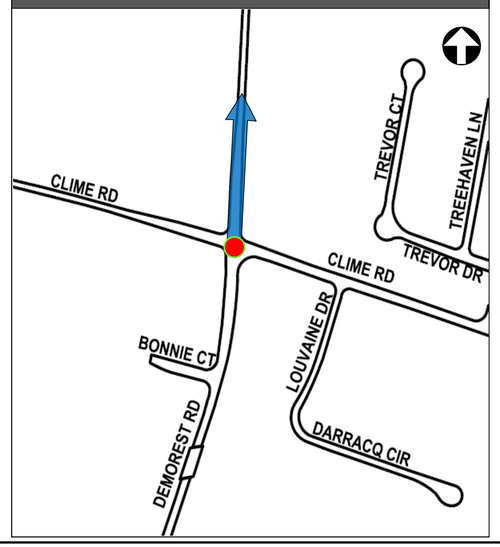


PATCH PANEL ENCLOSURE – 24 TERMINATION

LEGEND

- 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 – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 1092

REFER TO SHEET 156 FOR CONSTRUCTION PLAN DETAILS

CIP: 540007 - 100005
PID NUMBER: 14522

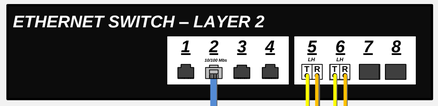
INT# 1092: CLIME RD. AT DEMOREST RD.
COMMUNICATIONS DIAGRAM

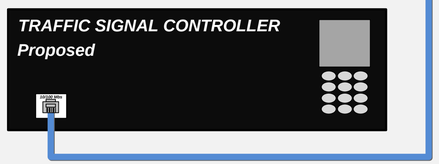
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

704
911

703-714.vsd - 1092 layout ~ last saved 5/2/2017 3:52:52 PM ~ printed: 3/11/2016 12:10:19 PM

TRAFFIC SIGNAL CABINET ASSEMBLY

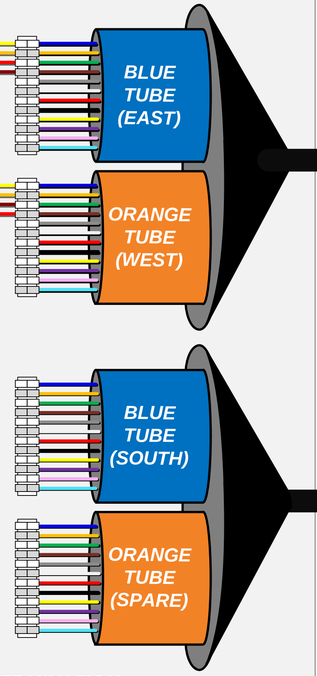




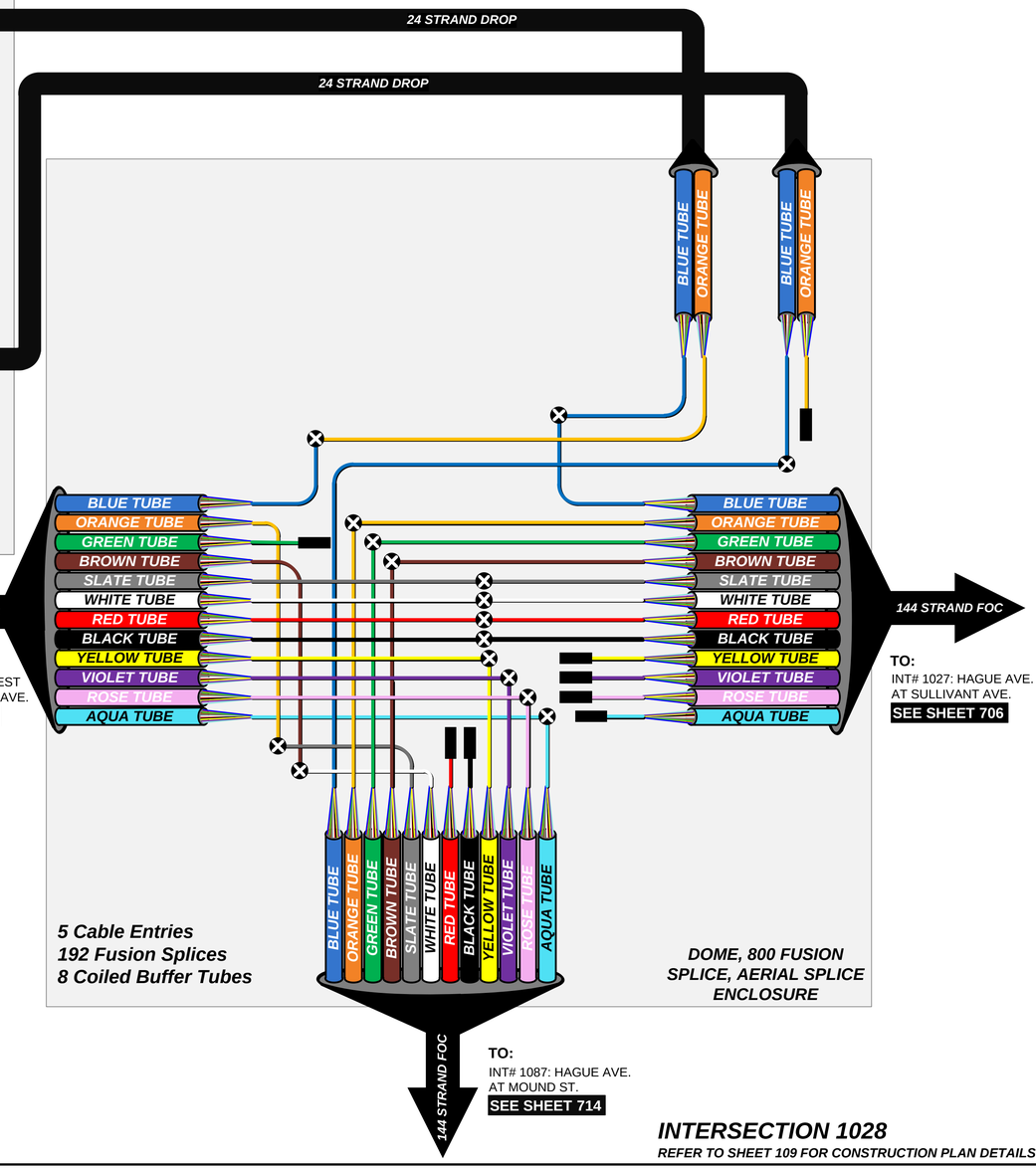
ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 1026: OGDEN AVE. AT SULLIVANT AVE.
SEE SHEET 707

PORT 6: INT# SIG4025: BRIGGS RD. AT DEMOREST RD.
SEE SHEET 703



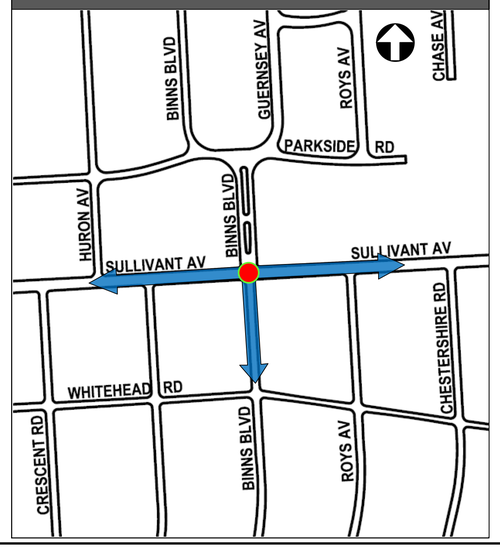
PATCH PANEL ENCLOSURES: (2) - 24 TERMINATION



LEGEND

- 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 – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 1028

REFER TO SHEET 109 FOR CONSTRUCTION PLAN DETAILS

CIP: 540007 - 100005
PID NUMBER: 14522

INT# 1028: BINNS BLVD. AT SULLIVANT AVE.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

705
911

703-714.vsd - 1028 layout – last saved 5/2/2017 3:52:52 PM – printed: 3/11/2016 12:10:19 PM

TRAFFIC SIGNAL CABINET ASSEMBLY

ETHERNET SWITCH – LAYER 2

1 2 3 4 5 6 7 8

TERMINAL PORT SERVER

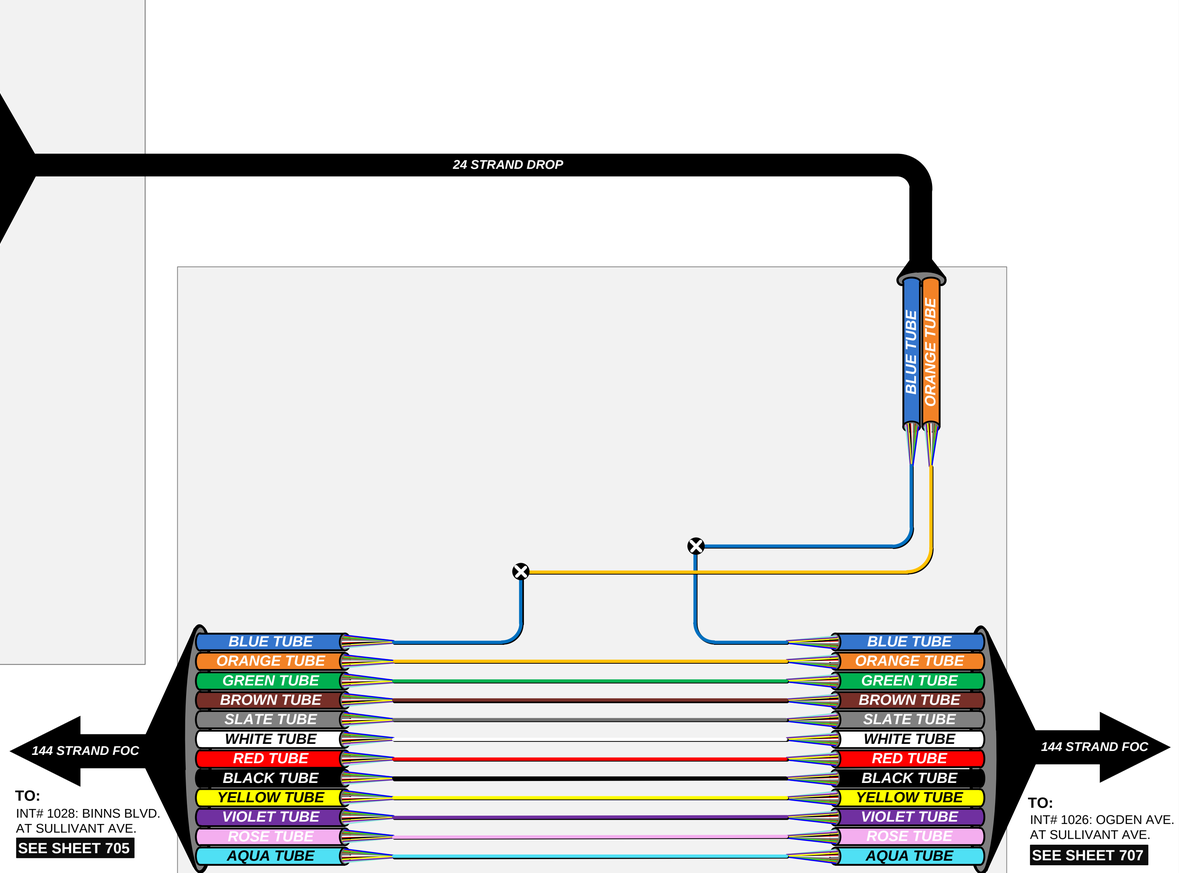
TRAFFIC SIGNAL CONTROLLER
Ex. Econolite ASC/2S-2100

ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 1025: RICHARDSON AVE. AT SULLIVANT AVE.
SEE SHEET 708

PORT 6: INT# 1030: DEMOREST RD. AT SULLIVANT AVE.
SEE SHEET 701

PATCH PANEL ENCLOSURE – 24 TERMINATION



TO:
INT# 1028: BINNS BLVD.
AT SULLIVANT AVE.
SEE SHEET 705

TO:
INT# 1026: OGDEN AVE.
AT SULLIVANT AVE.
SEE SHEET 707

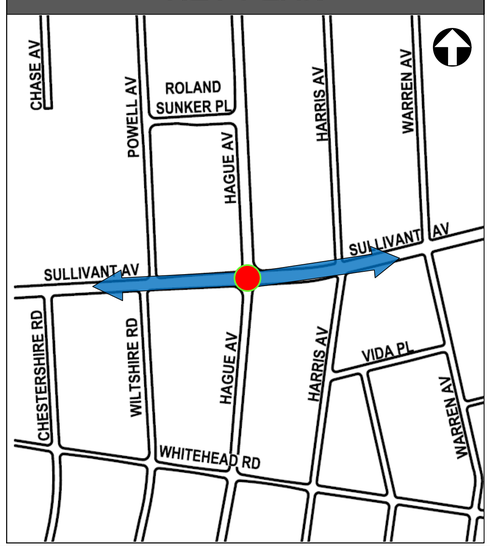
3 Cable Entries
24 Fusion Splices
11 Buffer Tubes Passed Through Unspliced

CLAMSHELL, 288 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX — GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 1027
REFER TO SHEET 110 FOR CONSTRUCTION PLAN DETAILS

CIP: 540007 - 100005
PID NUMBER: 14522

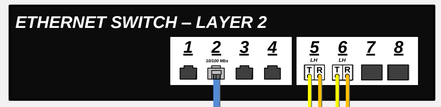
INT# 1027: HAGUE AVE. AT SULLIVANT AVE.
COMMUNICATIONS DIAGRAM

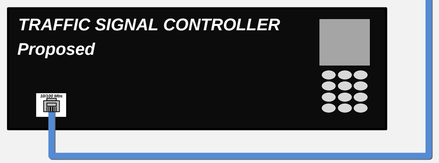
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

706
911

703-714.vsd - 1027 layout ~ last saved 5/2/2017 3:52:52 PM ~ printed: 3/11/2016 12:10:19 PM

TRAFFIC SIGNAL CABINET ASSEMBLY





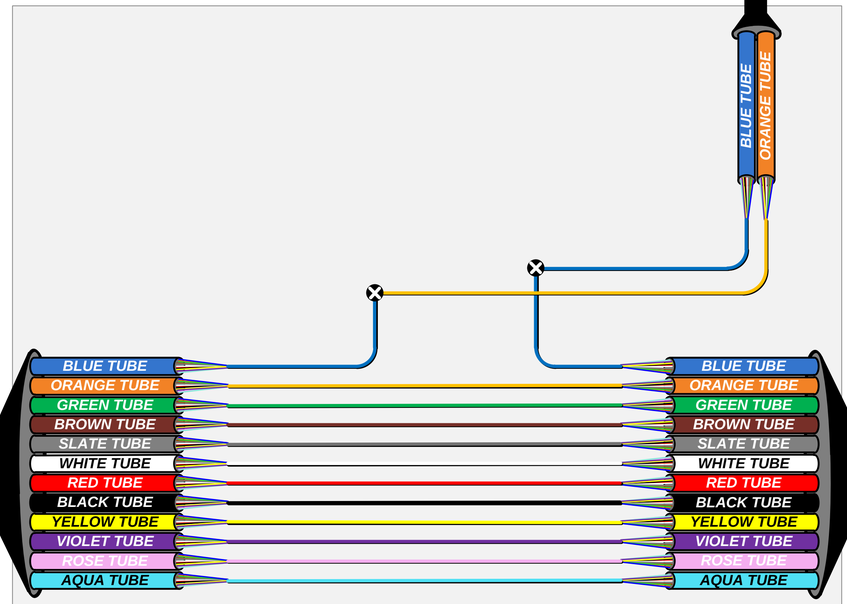
ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 1024: SULLIVANT AVE. AT WAYNE AVE.
SEE SHEET 709

PORT 6: INT# 1028: BINNS BLVD. AT SULLIVANT AVE.
SEE SHEET 705



PATCH PANEL ENCLOSURE – 24 TERMINATION



TO:
INT# 1027: HAGUE AVE. AT SULLIVANT AVE.
SEE SHEET 706

TO:
INT# 1025: RICHARDSON AVE. AT SULLIVANT AVE.
SEE SHEET 708

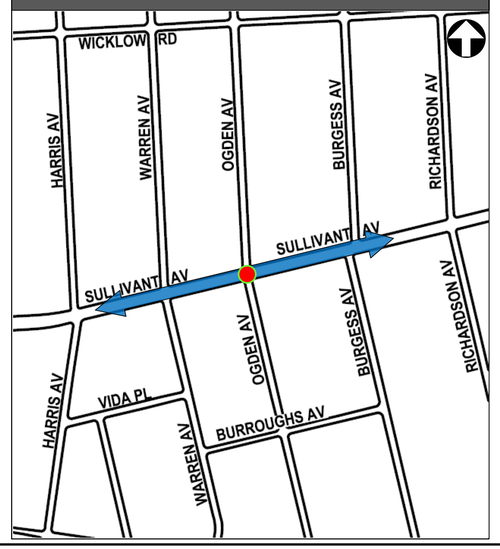
3 Cable Entries
24 Fusion Splices
11 Buffer Tubes Passed Through Unspliced

CLAMSHELL, 288 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 1026
REFER TO SHEET 111 FOR CONSTRUCTION PLAN DETAILS

CIP: 540007 - 100005
PID NUMBER: 14522

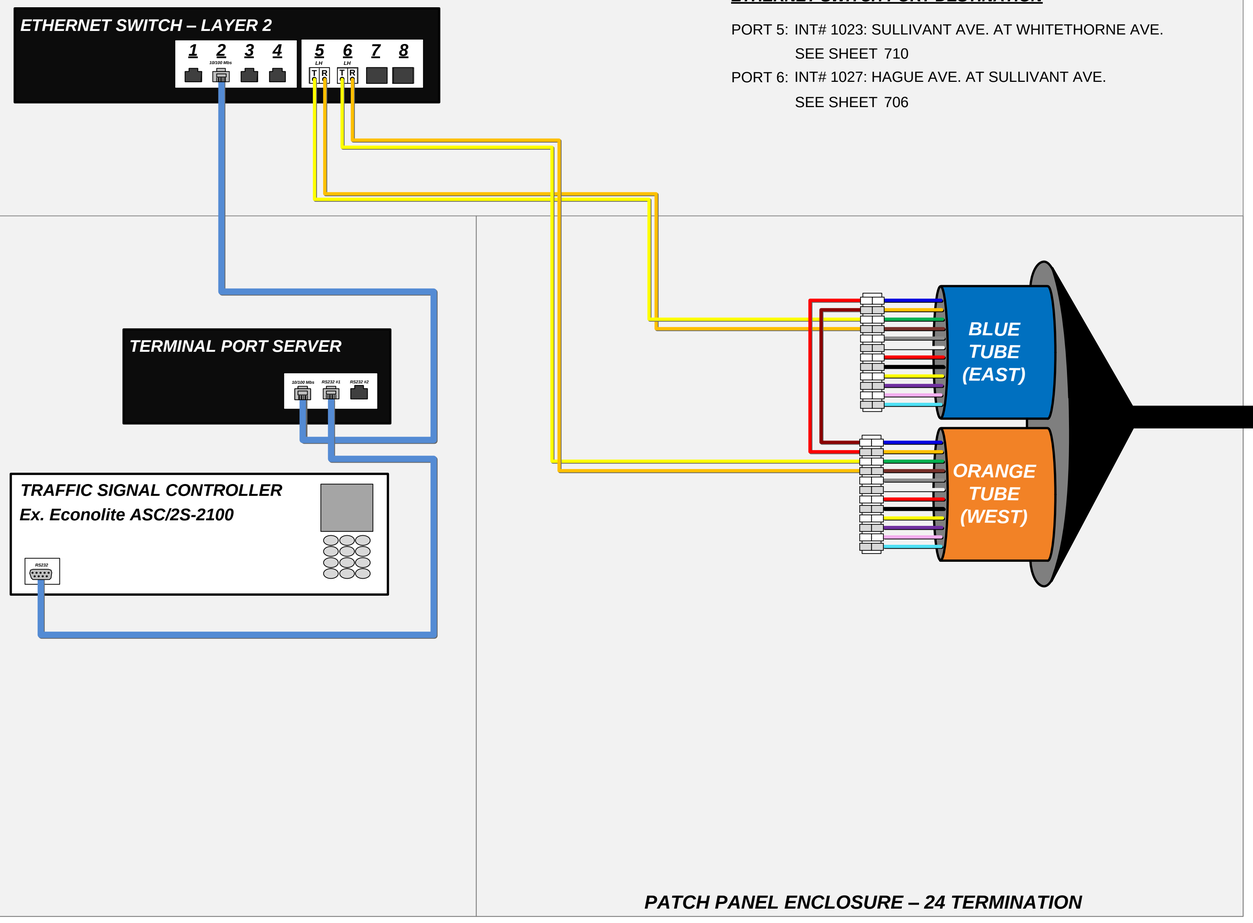
INT# 1026: OGDEN AVE. AT SULLIVANT AVE.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

707
911

703-714.vsd - 1026 layout – last saved 5/2/2017 3:52:52 PM – printed: 3/11/2016 12:10:19 PM

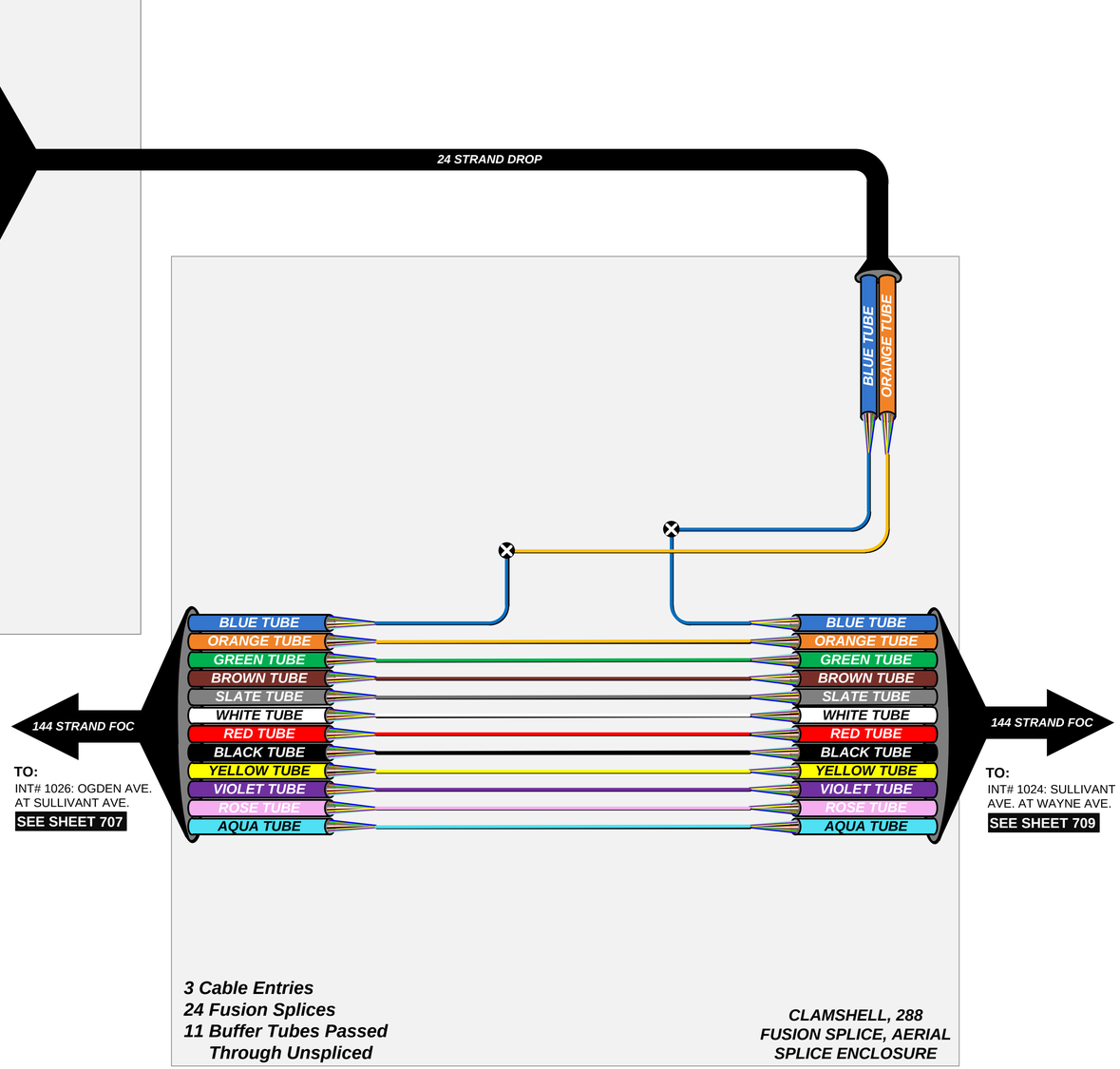
TRAFFIC SIGNAL CABINET ASSEMBLY



ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 1023: SULLIVANT AVE. AT WHITETHORNE AVE.
SEE SHEET 710

PORT 6: INT# 1027: HAGUE AVE. AT SULLIVANT AVE.
SEE SHEET 706



LEGEND

- 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 – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 1025

REFER TO SHEET 112 FOR CONSTRUCTION PLAN DETAILS

CIP: 540007 - 100005
PID NUMBER: 14522

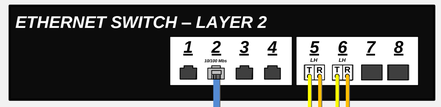
INT# 1025: RICHARDSON AVE. AT SULLIVANT AVE.
COMMUNICATIONS DIAGRAM

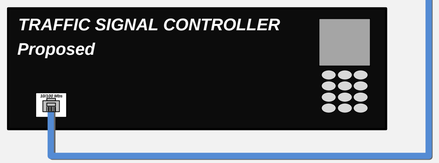
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

708
911

703-714.vsd - 1025 layout - last saved 5/2/2017 3:52:52 PM – printed: 3/11/2016 12:10:19 PM

TRAFFIC SIGNAL CABINET ASSEMBLY

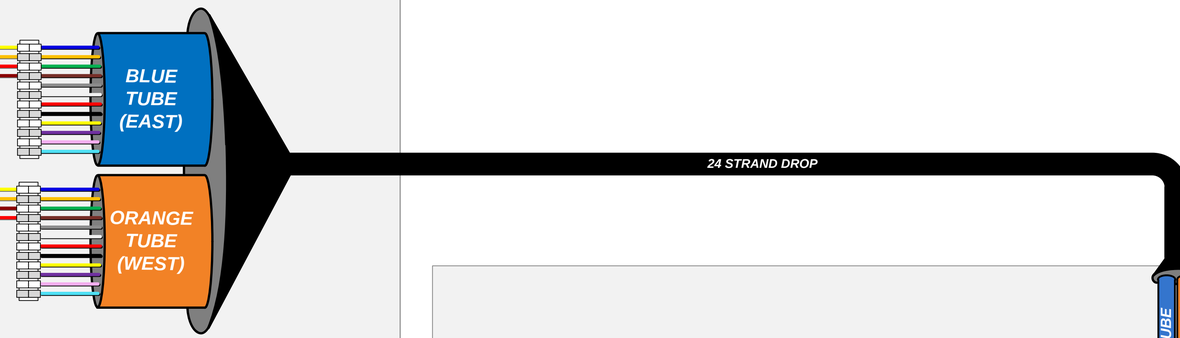




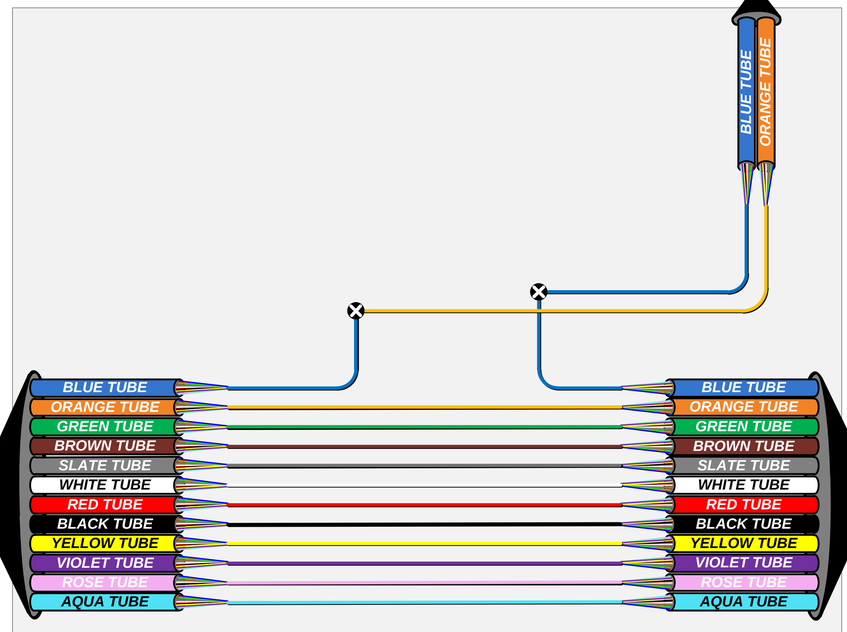
ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 1021: LARCOMB AVE. AT SULLIVANT AVE.
SEE SHEET 711

PORT 6: INT# 1026: OGDEN AVE. AT SULLIVANT AVE.
SEE SHEET 707



PATCH PANEL ENCLOSURE – 24 TERMINATION



TO:
INT# 1025: RICHARDSON AVE. AT SULLIVANT AVE.
SEE SHEET 708

TO:
INT# 1023: SULLIVANT AVE. AT WHITETHORNE AVE.
SEE SHEET 710

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
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 1024
REFER TO SHEET 114 FOR CONSTRUCTION PLAN DETAILS

CIP: 540007 - 100005
PID NUMBER: 14522

INT# 1024: SULLIVANT AVE. AT WAYNE AVE.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

709
911

703-714.vsd - 1024 layout ~ last saved 5/2/2017 3:52:52 PM ~ printed: 3/11/2016 12:10:19 PM

TRAFFIC SIGNAL CABINET ASSEMBLY

ETHERNET SWITCH – LAYER 2

1 2 3 4 5 6 7 8

TERMINAL PORT SERVER

10/100 Mb/s RS232 #1 RS232 #2

TRAFFIC SIGNAL CONTROLLER
Ex. Econolite ASC/2S-2100

RS232

ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 1015: CENTRAL AVE. AT SULLIVANT AVE.
SEE SHEET 686

PORT 6: INT# 1025: RICHARDSON AVE. AT SULLIVANT AVE.
SEE SHEET 708

BLUE TUBE (EAST)
ORANGE TUBE (WEST)
BLUE TUBE (SOUTH)
ORANGE TUBE (SPARE)

PATCH PANEL ENCLOSURES: (2) - 24 TERMINATION

24 STRAND DROP
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# 1024: SULLIVANT AVE. AT WAYNE AVE.
SEE SHEET 709

144 STRAND FOC

TO:
INT# 1021: LARCOMB AVE. AT SULLIVANT AVE.
SEE SHEET 711

144 STRAND FOC

TO:
INT# 1083: MOUND ST. AT WHITETHORNE AVE.
SEE SHEET 717

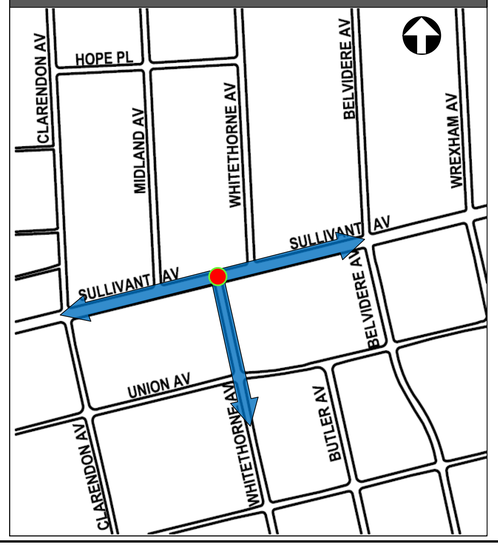
5 Cable Entries
96 Fusion Splices
8 Coiled Buffer Tubes
8 Buffer Tubes Passed Through Unspliced

DOME, 800 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

LEGEND

- 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 – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX — GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 1023
REFER TO SHEET 116 FOR CONSTRUCTION PLAN DETAILS

CIP: 540007 - 100005
PID NUMBER: 14522

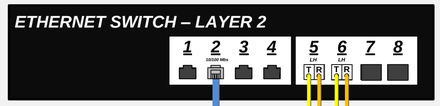
INT# 1023: SULLIVANT AVE. AT WHITETHORNE AVE.
COMMUNICATIONS DIAGRAM

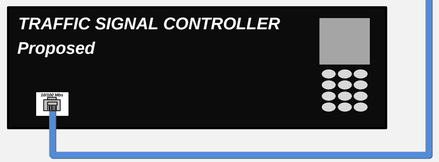
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

710
911

703-714.vsd - 1023 layout – last saved 5/2/2017 3:52:52 PM – printed: 3/11/2016 12:10:19 PM

TRAFFIC SIGNAL CABINET ASSEMBLY

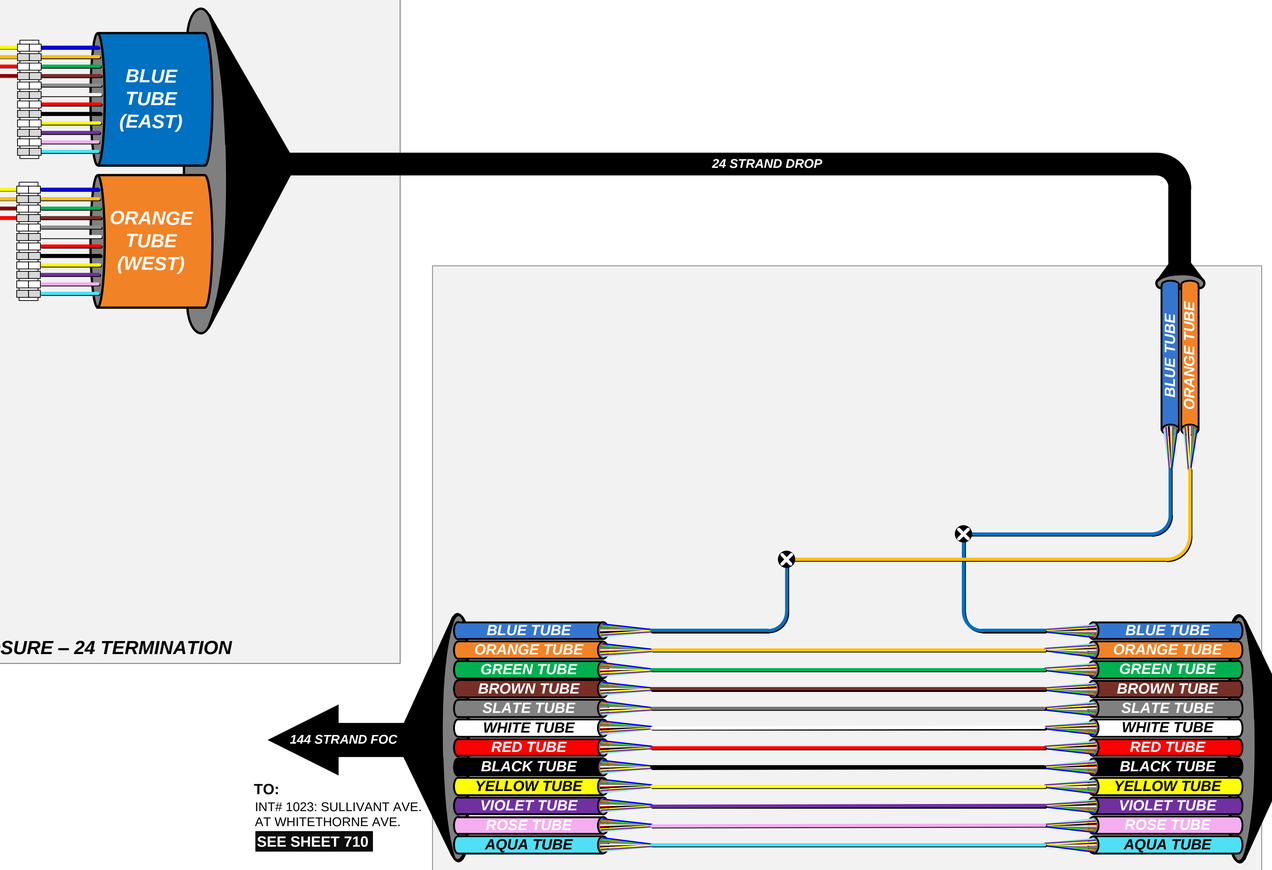




ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 1073: GLENWOOD AVE. AT SULLIVANT AVE.
SEE SHEET 713

PORT 6: INT# 1024: SULLIVANT AVE. AT WAYNE AVE.
SEE SHEET 709



TO:
INT# 1023: SULLIVANT AVE.
AT WHITETHORNE AVE.
SEE SHEET 710

TO:
SPLICE-03: IR-70 AT
SULLIVANT AVE.
SEE SHEET 712

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
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

KEY PLAN



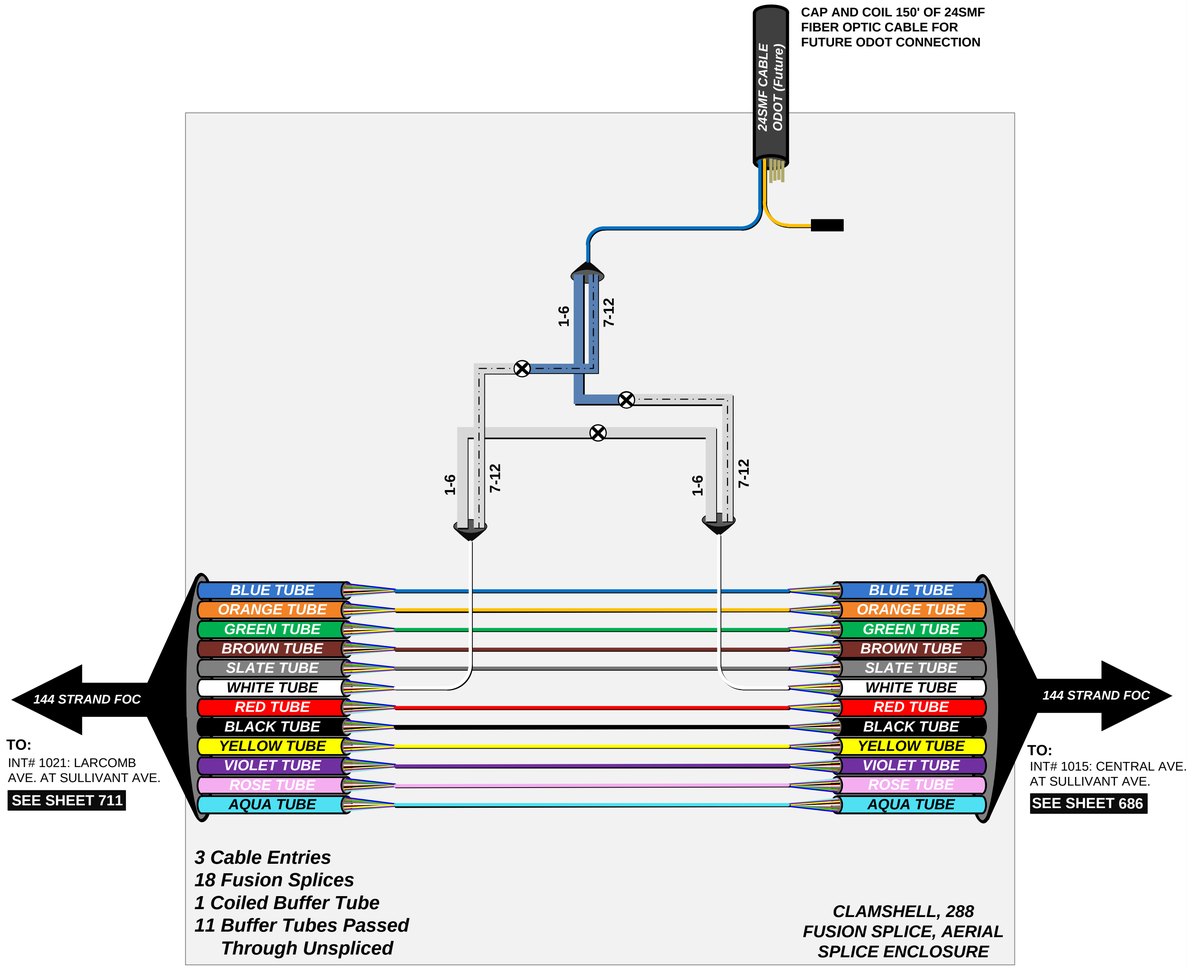
INTERSECTION 1021
REFER TO SHEET 118 FOR CONSTRUCTION PLAN DETAILS

CIP: 540007 - 100005
PID NUMBER: 14522

INT# 1021: LARCOMB AVE. AT SULLIVANT AVE.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

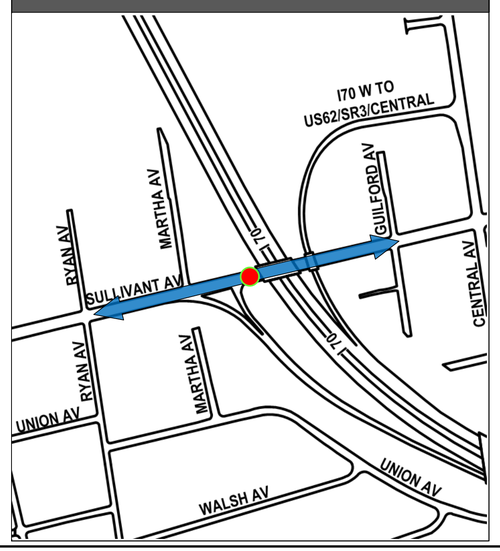
703-714.vsd - 1021 layout ~ last saved 5/2/2017 3:52:52 PM ~ printed: 3/11/2016 12:10:19 PM



LEGEND

- 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 – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

KEY PLAN



SPLICE-03

REFER TO SHEET 119 FOR CONSTRUCTION PLAN DETAILS

CIP: 540007 - 100005
PID NUMBER: 14522

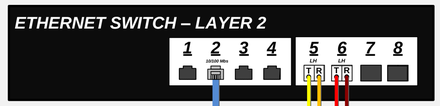
SPLICE-03: IR-70 AT SULLIVANT AVE.
COMMUNICATIONS DIAGRAM

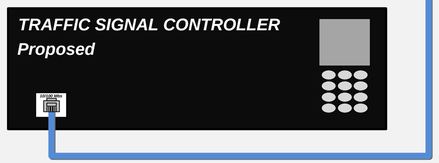
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

712
911

703-714.vsd - SPLICE-03 layout - last saved 5/2/2017 3:52:52 PM - printed: 3/11/2016 12:10:19 PM

TRAFFIC SIGNAL CABINET ASSEMBLY

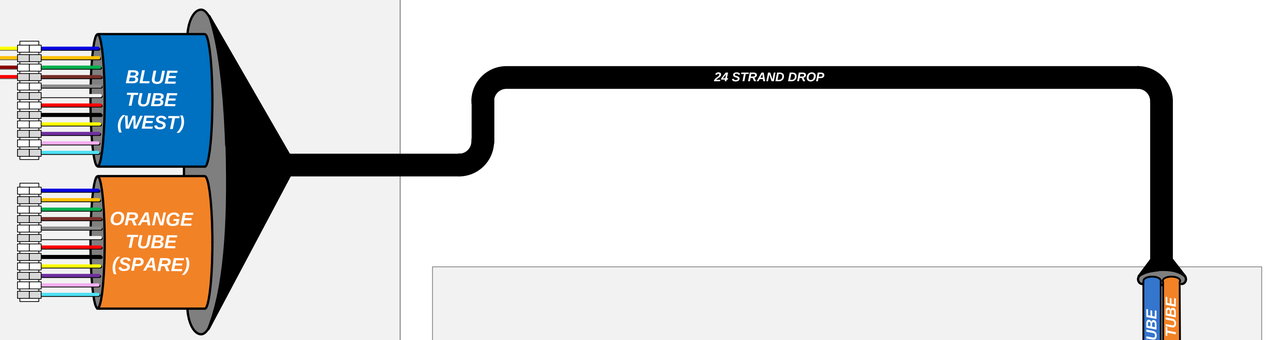


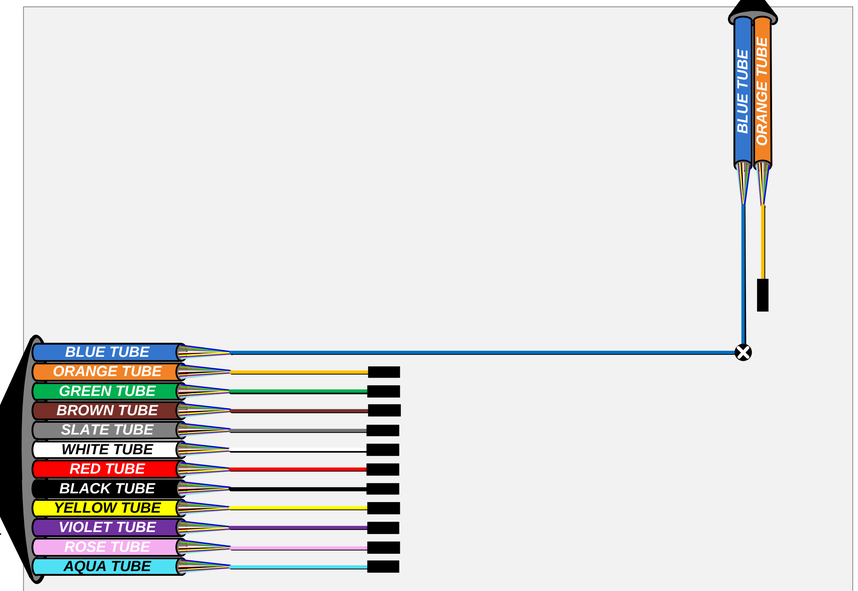


ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 1021: LARCOMB AVE. AT SULLIVANT AVE.
SEE SHEET 711

PORT 6: INT# 1015: CENTRAL AVE. AT SULLIVANT AVE.
SEE SHEET 686





TO:
INT# 1015: CENTRAL AVE. AT SULLIVANT AVE.
SEE SHEET 686

2 Cable Entries
12 Fusion Splices
12 Coiled Buffer Tubes

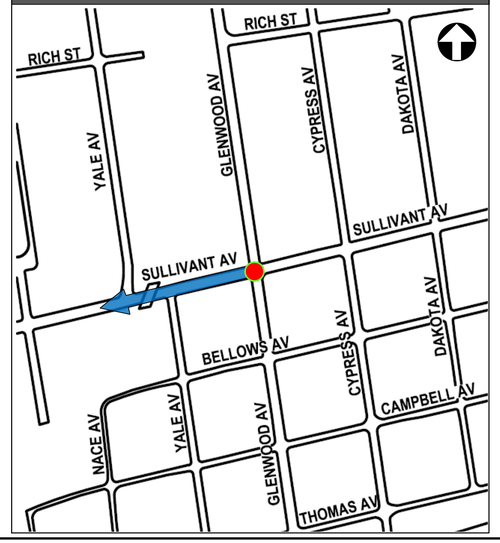
CLAMSHELL, 288 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

PATCH PANEL ENCLOSURE – 24 TERMINATION

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 1073
REFER TO SHEET 121 FOR CONSTRUCTION PLAN DETAILS

CIP: 540007 - 100005
PID NUMBER: 14522

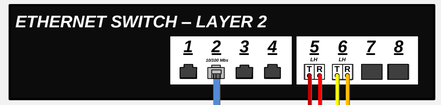
INT# 1073: GLENWOOD AVE. AT SULLIVANT AVE.
COMMUNICATIONS DIAGRAM

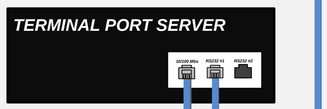
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

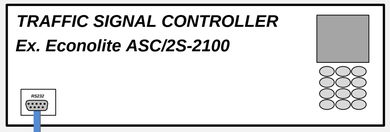
713
911

703-714.vsd - 1073 layout ~ last saved 5/2/2017 3:52:52 PM ~ printed: 3/11/2016 12:10:19 PM

TRAFFIC SIGNAL CABINET ASSEMBLY



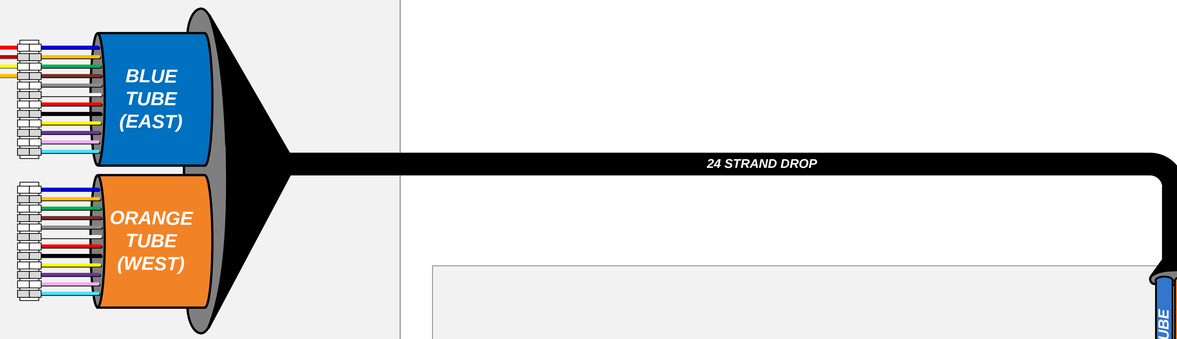




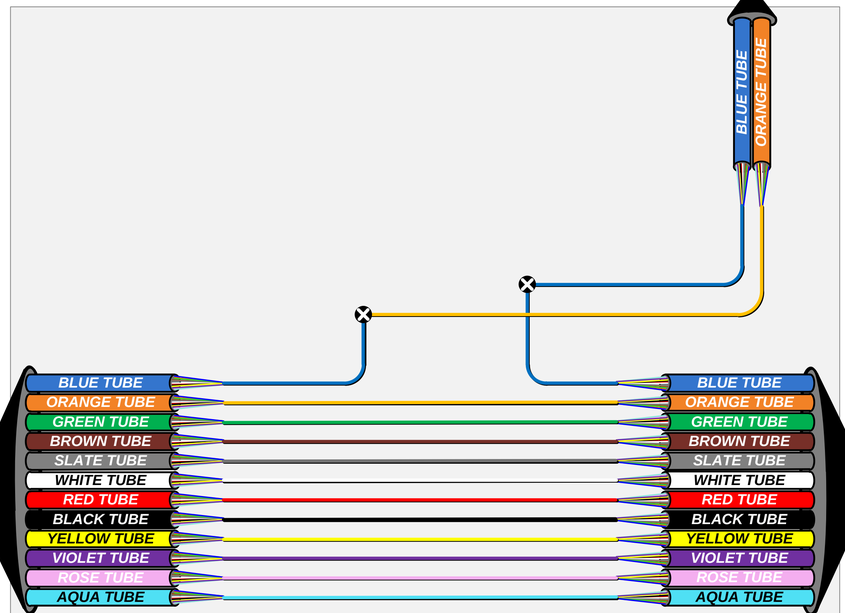
ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 1085: MOUND ST. AT WAYNE AVE.
SEE SHEET 715

PORT 6: INT# 1084: MOUND ST. AT WHEATLAND AVE.
SEE SHEET 716



PATCH PANEL ENCLOSURE – 24 TERMINATION



TO:
INT# 1028: BINNS BLVD.
AT SULLIVANT AVE.
SEE SHEET 705

TO:
INT# 1085: MOUND ST.
AT WAYNE AVE.
SEE SHEET 715

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
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 1087
REFER TO SHEET 132 FOR CONSTRUCTION PLAN DETAILS

CIP: 540007 - 100005
PID NUMBER: 14522

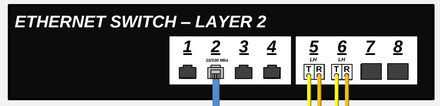
INT# 1087: HAGUE AVE. AT MOUND ST.
COMMUNICATIONS DIAGRAM

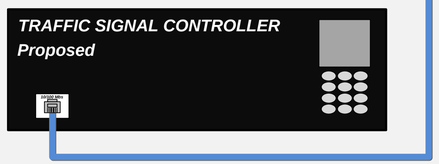
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

714
911

703-714.vsd - 1087 layout ~ last saved 5/2/2017 3:52:52 PM ~ printed: 3/11/2016 12:10:19 PM

TRAFFIC SIGNAL CABINET ASSEMBLY

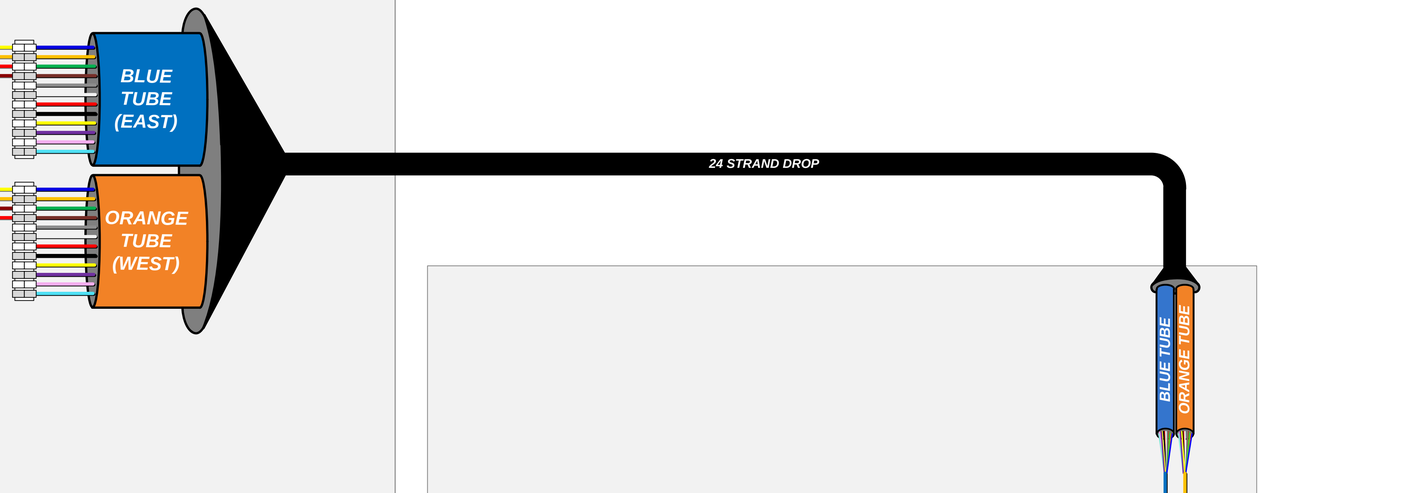




ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 1083: MOUND ST. AT WHITETHORNE AVE.
SEE SHEET 717

PORT 6: INT# 1087: HAGUE AVE. AT MOUND ST.
SEE SHEET 714



TO:
INT# 1087: HAGUE AVE.
AT MOUND ST.
SEE SHEET 714

TO:
INT# 1084: MOUND ST.
AT WHEATLAND AVE.
SEE SHEET 716

3 Cable Entries
156 Fusion Splices

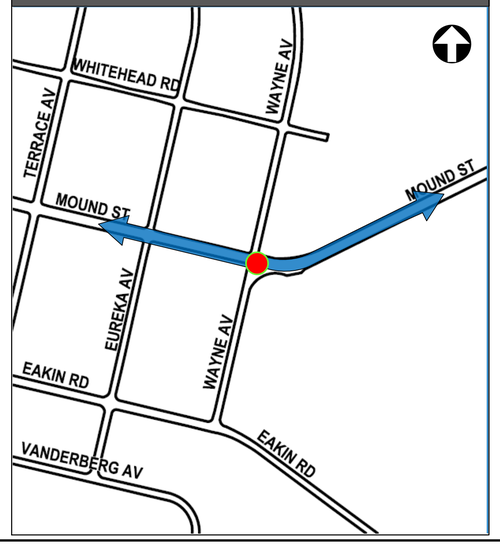
CLAMSHELL, 288 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

PATCH PANEL ENCLOSURE – 24 TERMINATION

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 1085
REFER TO SHEET 135 FOR CONSTRUCTION PLAN DETAILS

CIP: 540007 - 100005
PID NUMBER: 14522

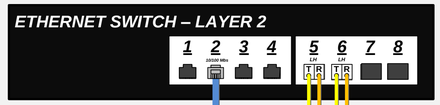
INT# 1085: MOUND ST. AT WAYNE AVE.
COMMUNICATIONS DIAGRAM

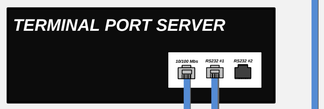
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

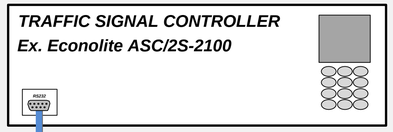
715
911

715-729.vsd - 1085 layout ~ last saved 5/2/2017 3:54:25 PM ~ printed: 8/11/2016 12:02:20 PM

TRAFFIC SIGNAL CABINET ASSEMBLY



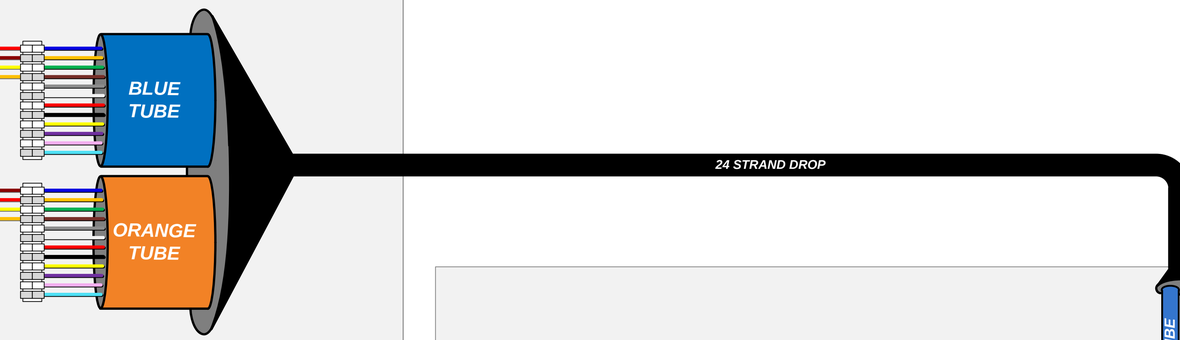




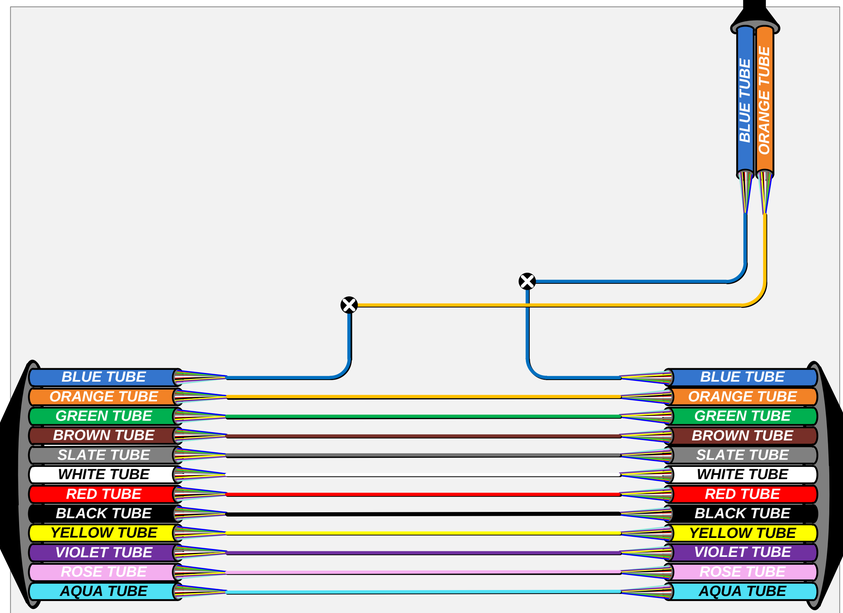
ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 1082: BELVIDERE AVE. AT MOUND ST.
SEE SHEET 718

PORT 6: INT# 1087: HAGUE AVE. AT MOUND ST.
SEE SHEET 714



PATCH PANEL ENCLOSURE – 24 TERMINATION



TO:
INT# 1085: MOUND ST.
AT WAYNE AVE.
SEE SHEET 715

TO:
INT# 1083: MOUND ST.
AT WHITETHORNE AVE.
SEE SHEET 717

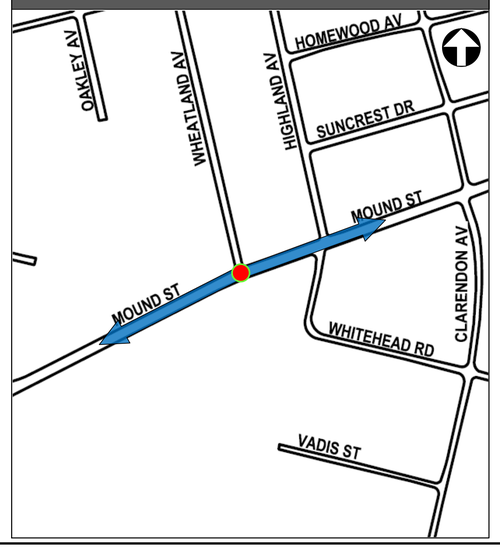
3 Cable Entries
24 Fusion Splices
11 Buffer Tubes Passed Through Unspliced

CLAMSHELL, 288 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 1084

REFER TO SHEET 136 FOR CONSTRUCTION PLAN DETAILS

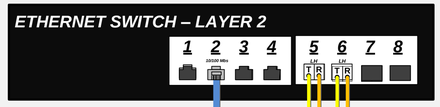
CIP: 540007 - 100005
PID NUMBER: 14522

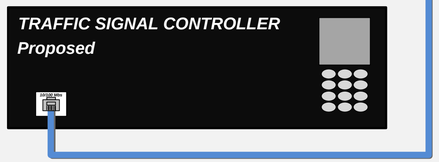
INT# 1084: MOUND ST. AT WHEATLAND AVE.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

715-729.vsd - 1084 layout – last saved 5/2/2017 3:54:25 PM – printed: 8/11/2016 12:02:20 PM

TRAFFIC SIGNAL CABINET ASSEMBLY

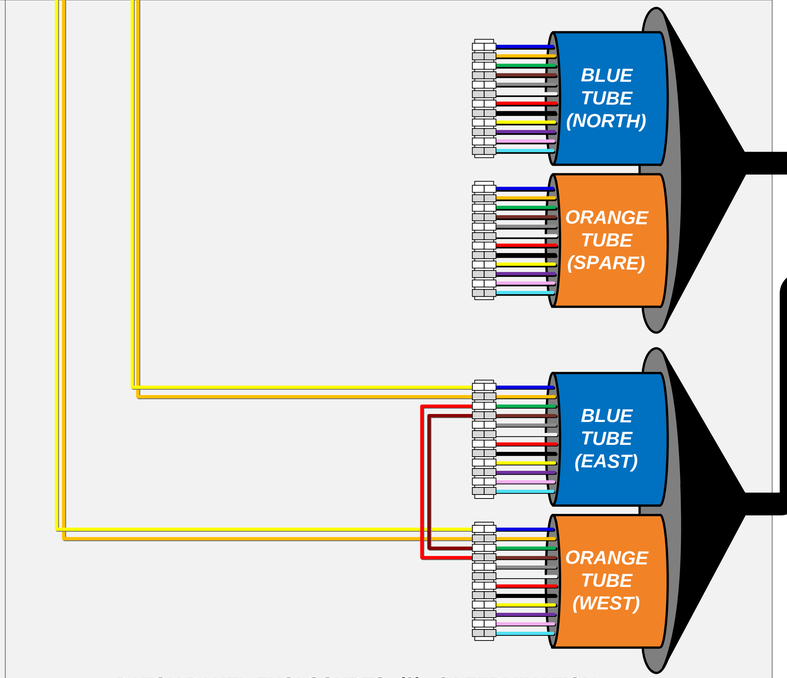




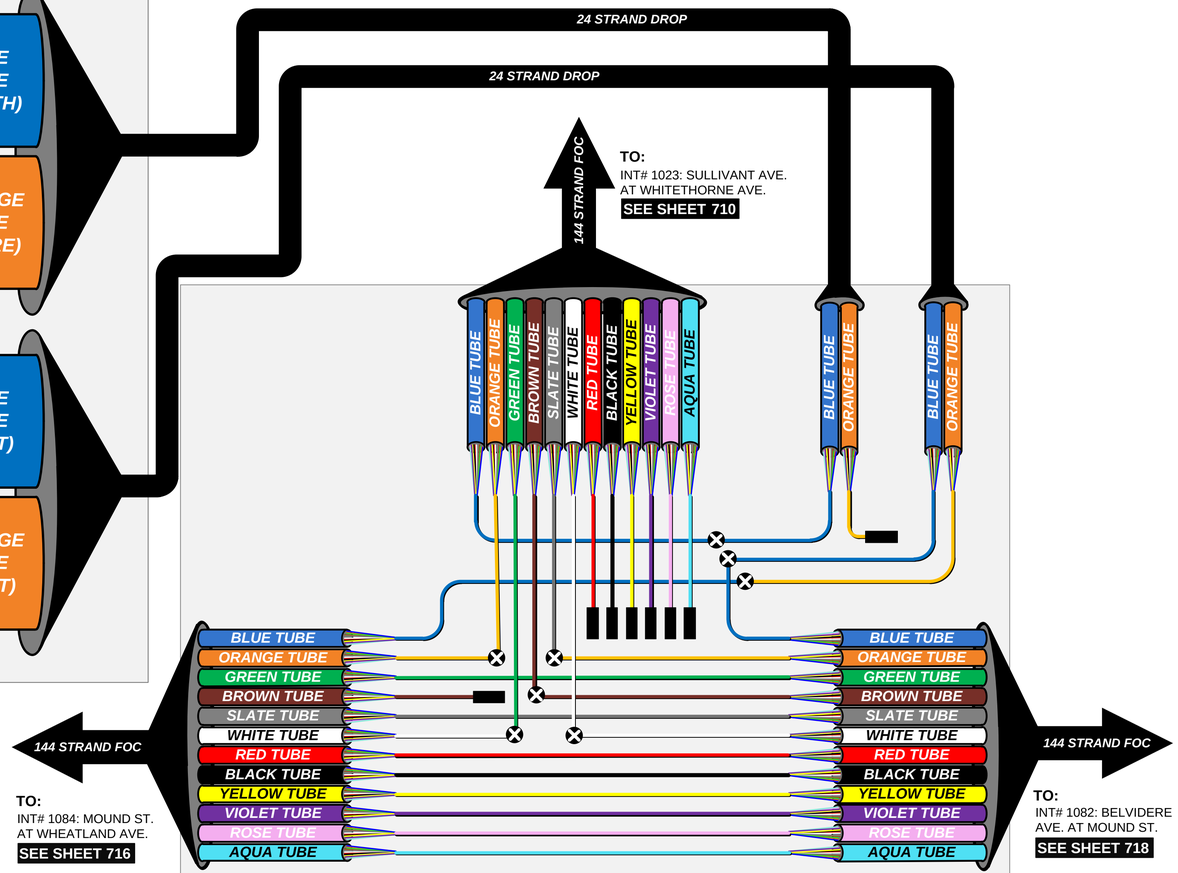
ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 1016: CENTRAL AVE./HARRISBURG PIKE. AT MOUND ST.
SEE SHEET 684

PORT 6: INT# 1085: MOUND ST. AT WAYNE AVE.
SEE SHEET 715



PATCH PANEL ENCLOSURES: (2) - 24 TERMINATION



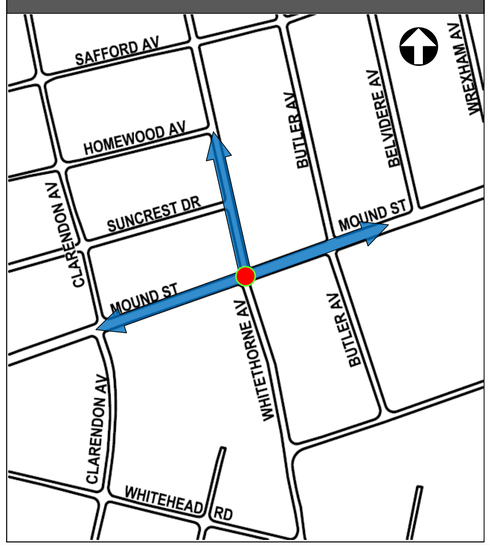
5 Cable Entries
96 Fusion Splices
8 Coiled Buffer Tubes
8 Buffer Tubes Passed Through Unspliced

DOME, 800 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

LEGEND

- 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 – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 1083

REFER TO SHEET 137 FOR CONSTRUCTION PLAN DETAILS

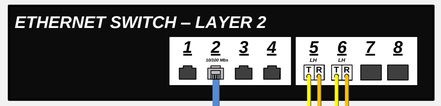
CIP: 540007 - 100005
PID NUMBER: 14522

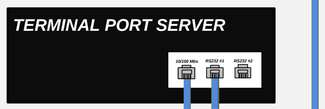
INT# 1083: MOUND ST. AT WHITETHORNE AVE.
COMMUNICATIONS DIAGRAM

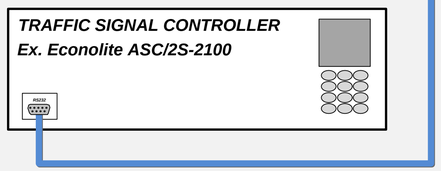
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

715-729.vsd - 1083 layout – last saved 5/2/2017 3:54:25 PM – printed: 8/11/2016 12:02:20 PM

TRAFFIC SIGNAL CABINET ASSEMBLY



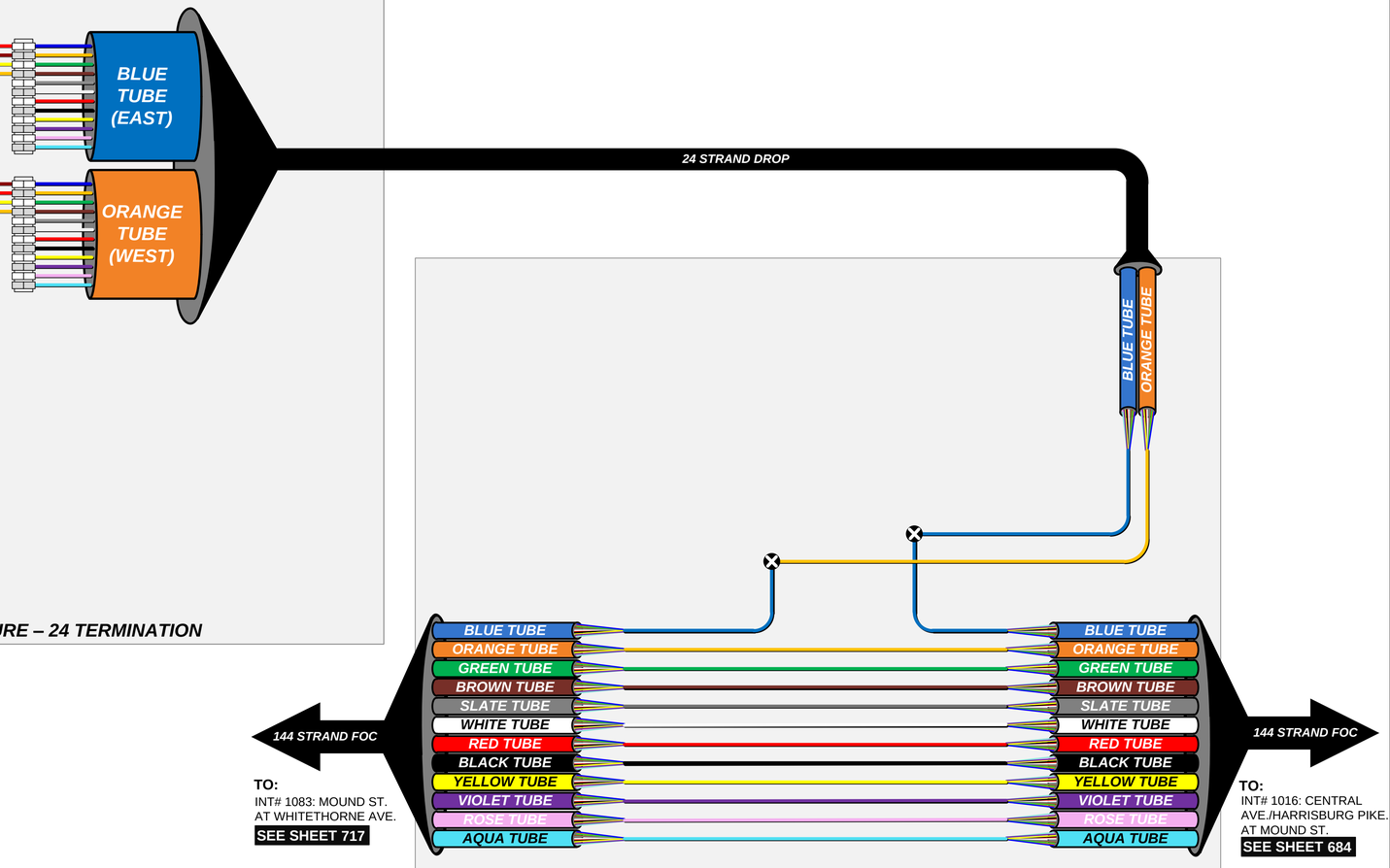




ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 1019: I-70 RAMPS AT MOUND ST.
SEE SHEET 719

PORT 6: INT# 1084: MOUND ST. AT WHEATLAND AVE.
SEE SHEET 716



TO:
INT# 1083: MOUND ST.
AT WHITETHORNE AVE.
SEE SHEET 717

TO:
INT# 1016: CENTRAL
AVE./HARRISBURG PIKE.
AT MOUND ST.
SEE SHEET 684

3 Cable Entries
24 Fusion Splices
11 Buffer Tubes Passed Through Unspliced

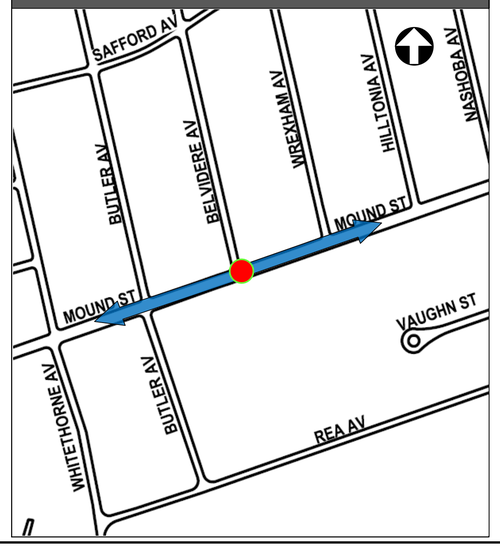
CLAMSHELL, 288 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

PATCH PANEL ENCLOSURE – 24 TERMINATION

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX T R — GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 1082
REFER TO SHEET 139 FOR CONSTRUCTION PLAN DETAILS

CIP: 540007 - 100005
PID NUMBER: 14522

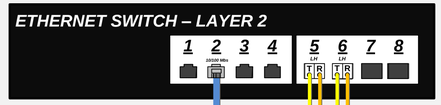
INT# 1082: BELVIDERE AVE. AT MOUND ST.
COMMUNICATIONS DIAGRAM

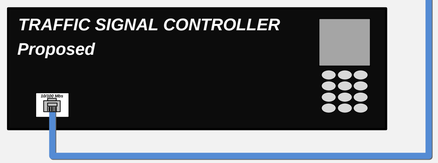
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

718
911

715-729.vsd - 1082 layout ~ last saved 5/2/2017 3:54:25 PM ~ printed: 8/11/2016 12:02:20 PM

TRAFFIC SIGNAL CABINET ASSEMBLY

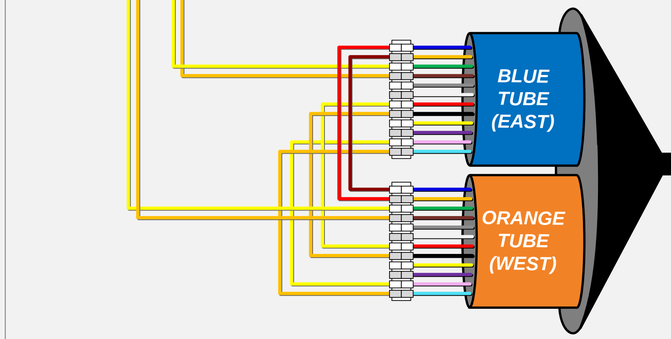




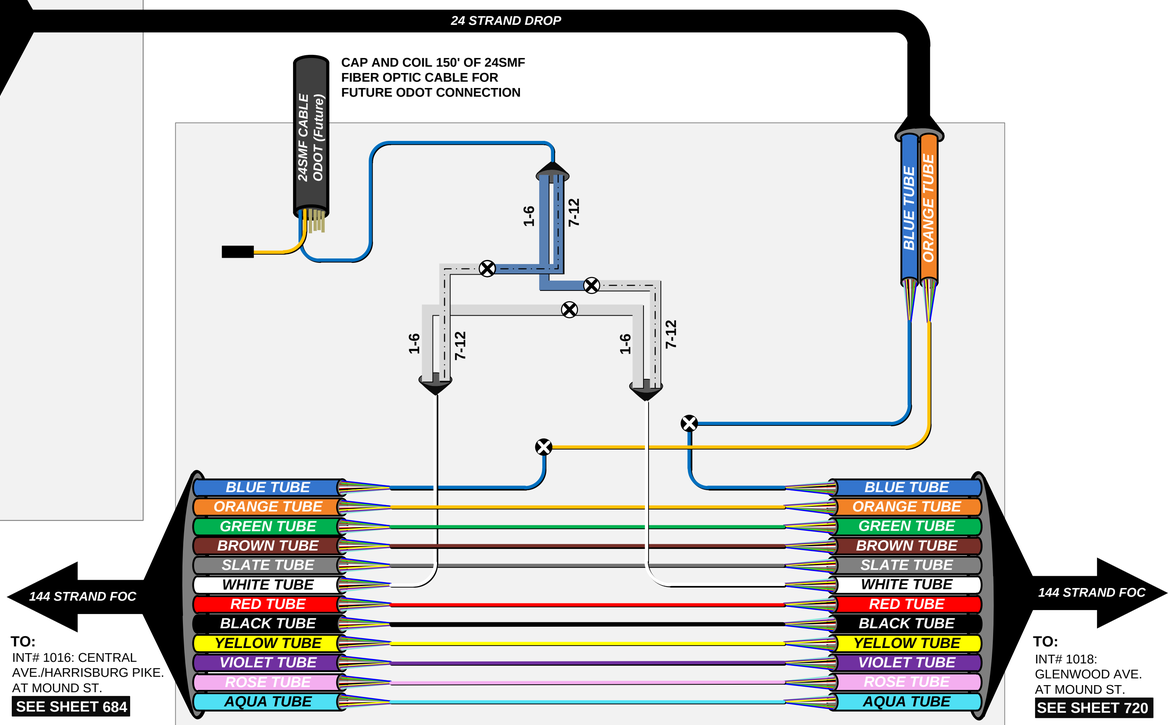
ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 1067: MOUND ST. AT SOUDER AVE.
SEE SHEET 721

PORT 6: INT# 1082: BELVIDERE AVE. AT MOUND ST.
SEE SHEET 718



PATCH PANEL ENCLOSURE – 24 TERMINATION



TO:
INT# 1016: CENTRAL AVE./HARRISBURG PIKE. AT MOUND ST.
SEE SHEET 684

TO:
INT# 1018: GLENWOOD AVE. AT MOUND ST.
SEE SHEET 720

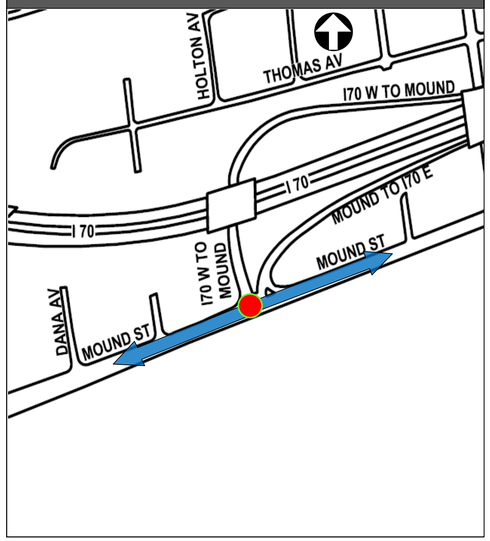
4 Cable Entries
42 Fusion Splices
1 Coiled Buffer Tube
10 Buffer Tubes Passed Through Unspliced

CLAMSHELL, 288 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 1019
REFER TO SHEET 146 FOR CONSTRUCTION PLAN DETAILS

CIP: 540007 - 100005
PID NUMBER: 14522

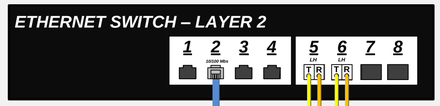
INT# 1019: I-70 RAMPS AT MOUND ST.
COMMUNICATIONS DIAGRAM

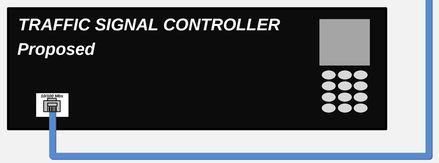
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

719
911

715-729.vsd - 1019 layout ~ last saved 5/2/2017 3:54:25 PM ~ printed: 8/11/2016 12:02:20 PM

TRAFFIC SIGNAL CABINET ASSEMBLY

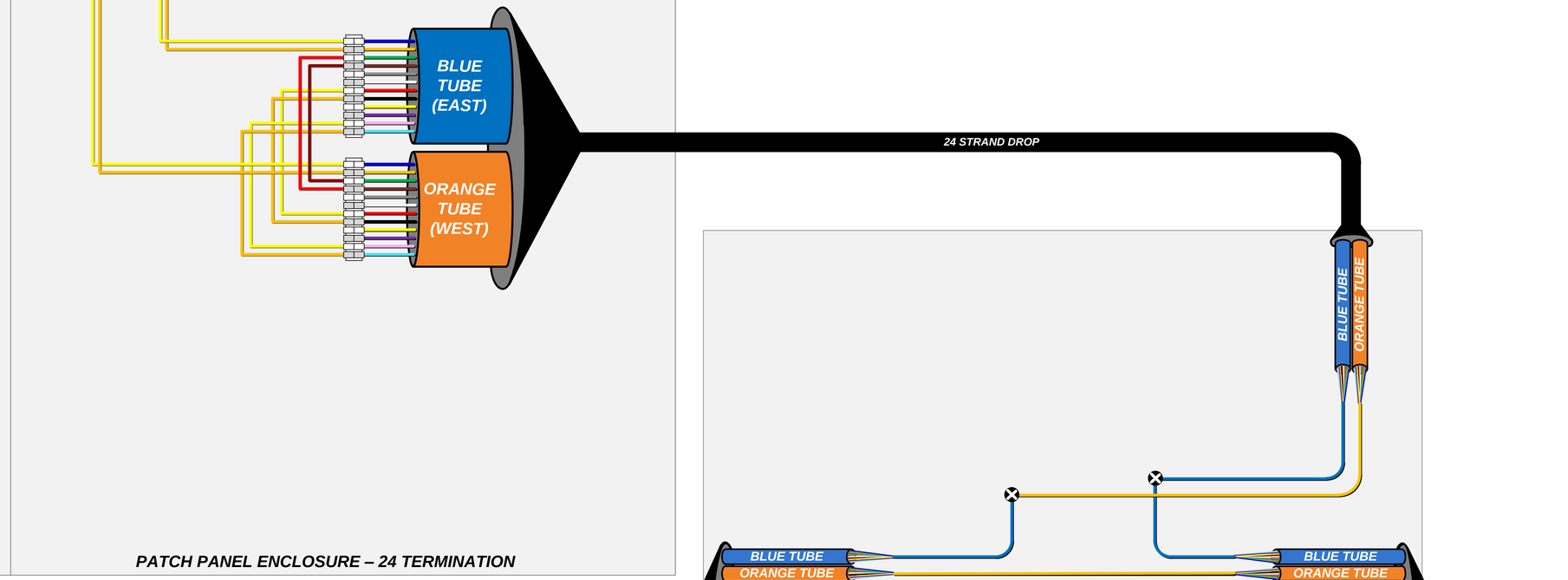




ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 1067: MOUND ST. AT SOUDER AVE.
SEE SHEET 721

PORT 6: INT# 1016: CENTRAL AVE./HARRISBURG PIKE. AT MOUND ST.
SEE SHEET 684



PATCH PANEL ENCLOSURE – 24 TERMINATION

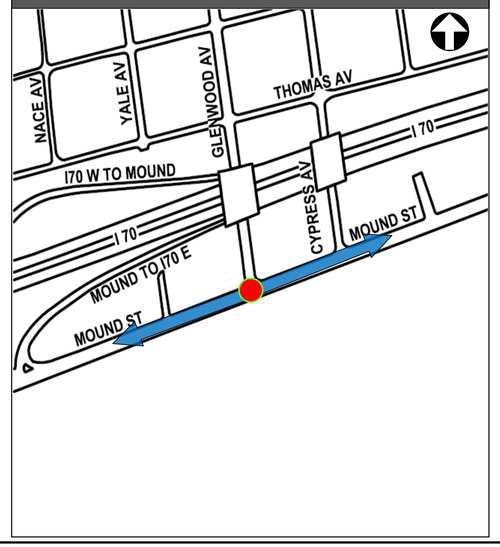
3 Cable Entries
24 Fusion Splices
11 Buffer Tubes Passed Through Unspliced

CLAMSHELL, 288 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 1018

REFER TO SHEET 146 FOR CONSTRUCTION PLAN DETAILS

CIP: 540007 - 100005
PID NUMBER: 14522

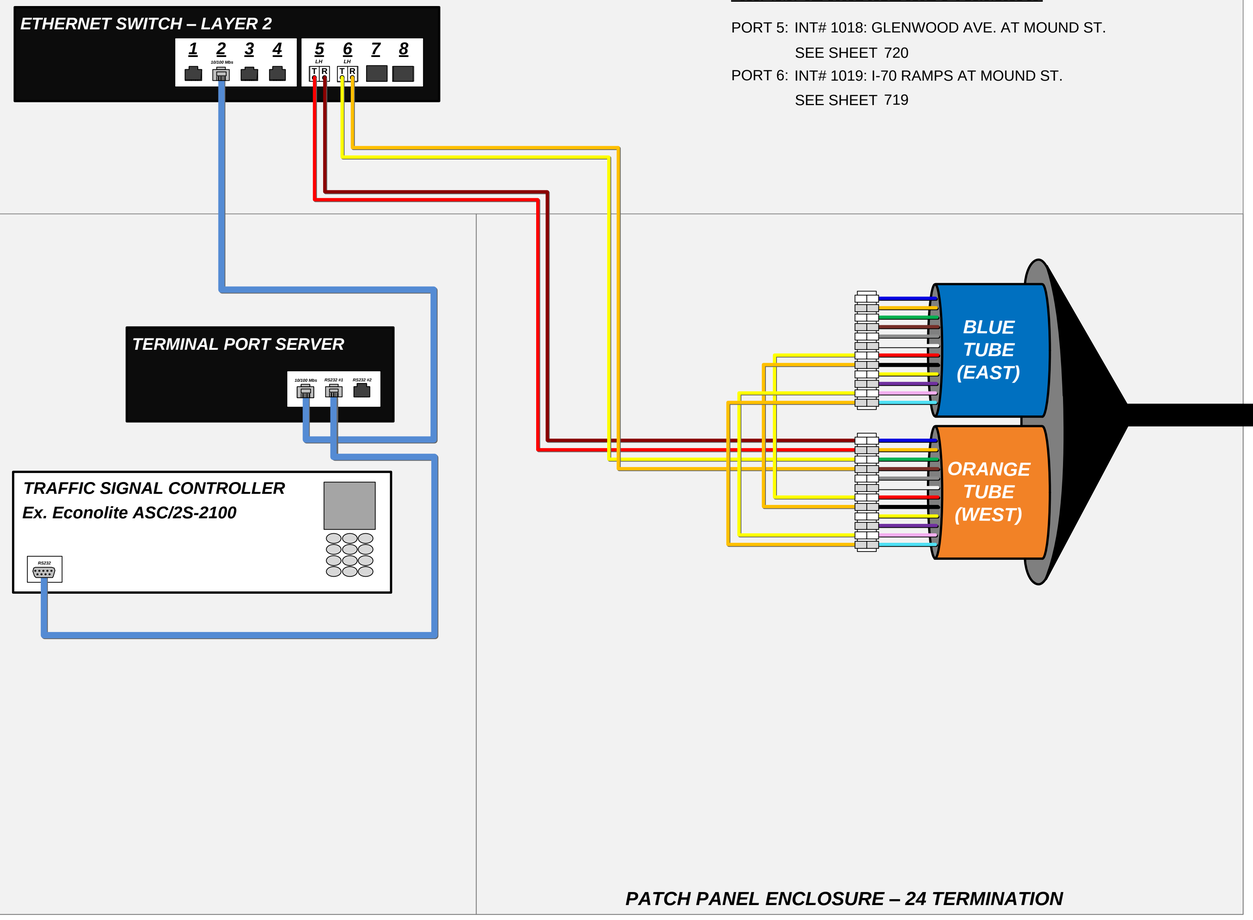
INT# 1018: GLENWOOD AVE. AT MOUND ST.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

720
911

715-729.vsd - 1018 layout ~ last saved 5/2/2017 3:54:25 PM ~ printed: 8/11/2016 12:02:20 PM

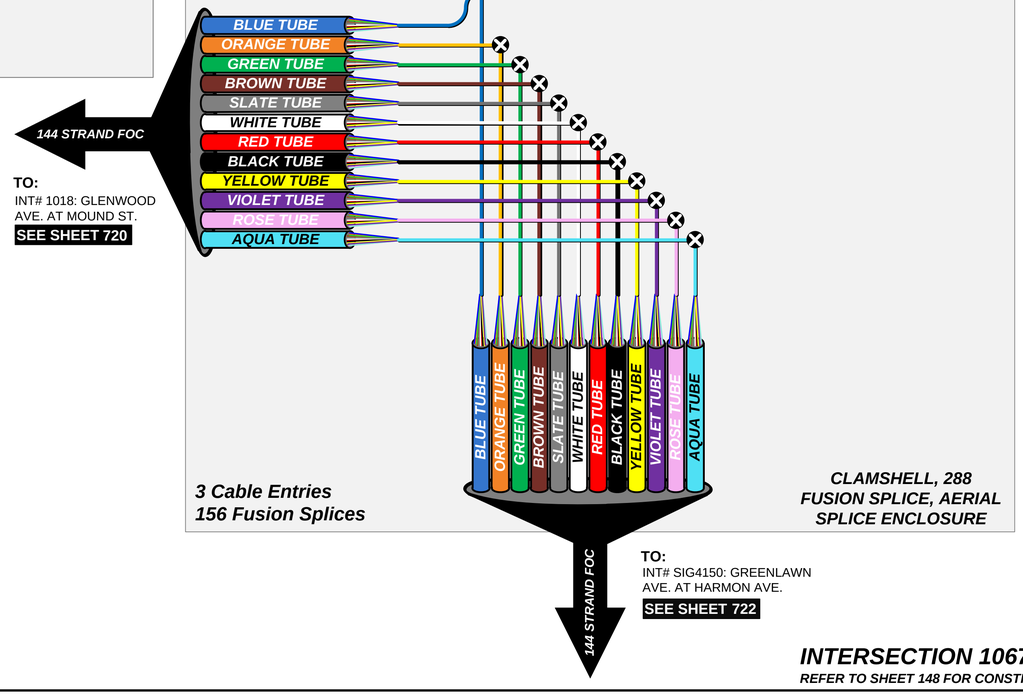
TRAFFIC SIGNAL CABINET ASSEMBLY



ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 1018: GLENWOOD AVE. AT MOUND ST.
SEE SHEET 720

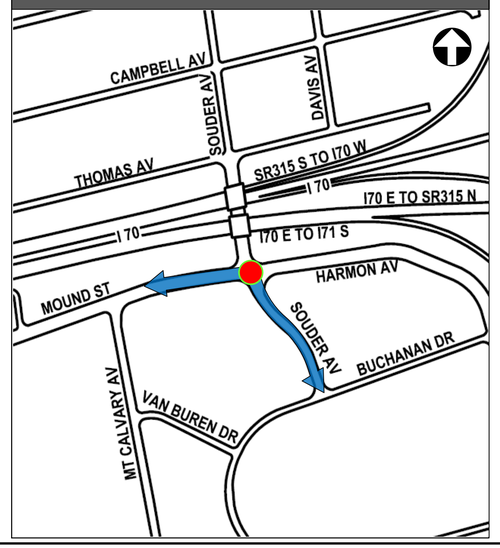
PORT 6: INT# 1019: I-70 RAMPS AT MOUND ST.
SEE SHEET 719



LEGEND

- 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 – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 1067

REFER TO SHEET 148 FOR CONSTRUCTION PLAN DETAILS

CIP: 540007 - 100005
PID NUMBER: 14522

INT# 1067: MOUND ST. AT SOUDER AVE.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

721
911

715-729.vsd - 1067 layout ~ last saved 5/2/2017 3:54:25 PM ~ printed: 8/11/2016 12:02:20 PM

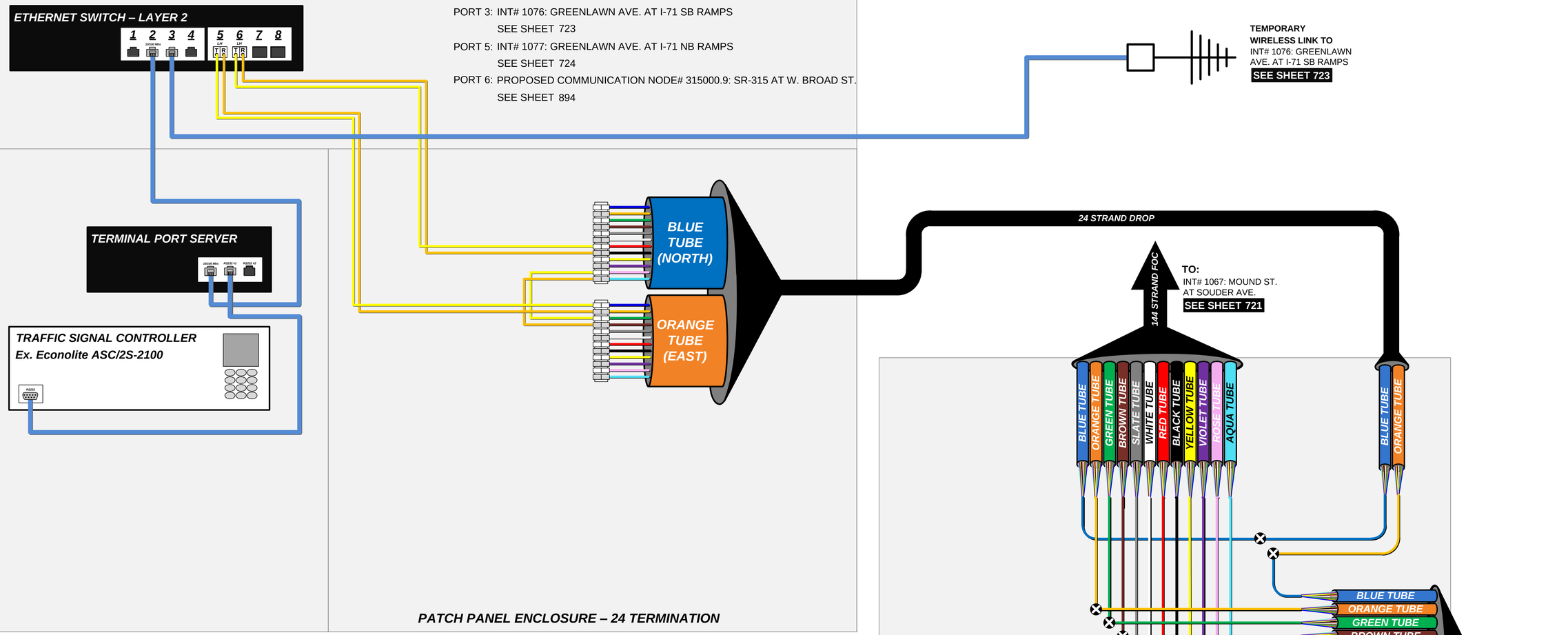
TRAFFIC SIGNAL CABINET ASSEMBLY

ETHERNET SWITCH PORT DESTINATION

PORT 3: INT# 1076: GREENLAWN AVE. AT I-71 SB RAMPS
SEE SHEET 723

PORT 5: INT# 1077: GREENLAWN AVE. AT I-71 NB RAMPS
SEE SHEET 724

PORT 6: PROPOSED COMMUNICATION NODE# 315000.9: SR-315 AT W. BROAD ST.
SEE SHEET 894



PATCH PANEL ENCLOSURE – 24 TERMINATION

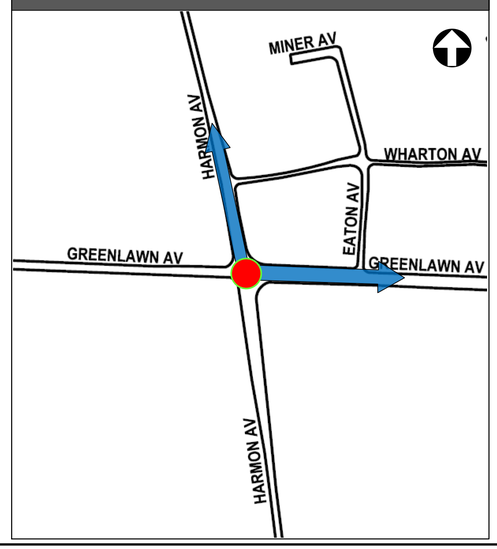
3 Cable Entries
156 Fusion Splices

CLAMSHELL, 288 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

LEGEND

- 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 – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION SIG4150

REFER TO SHEET 237 FOR CONSTRUCTION PLAN DETAILS

CIP: 540007 - 100005
PID NUMBER: 14522

INT# SIG4150: GREENLAWN AVE. AT HARMON AVE.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

722
911

715-729.vsd - SIG4150 layout ~ last saved 5/2/2017 3:54:25 PM ~ printed: 8/11/2016 12:02:20 PM

TRAFFIC SIGNAL CABINET ASSEMBLY

ETHERNET SWITCH – LAYER 2

1 2 3 4 5 6 7 8

10/100 Mbs

T R T R

ETHERNET SWITCH PORT DESTINATION

PORT 3: INT# SIG4150: GREENLAWN AVE. AT HARMON AVE.
SEE SHEET 722

PORT 5: INT# 1078: DECKENBACH RD. AT GREENLAWN AVE.
SEE SHEET 725

PORT 6: PROPOSED COMMUNICATION NODE# 315000.9: SR-315 AT W. BROAD ST.
SEE SHEET 894

TEMPORARY WIRELESS LINK TO INT# SIG4150: GREENLAWN AVE. AT HARMON AVE.
SEE SHEET 722

TERMINAL PORT SERVER

10/100 Mbs RS232 #1 RS232 #2

TRAFFIC SIGNAL CONTROLLER
Ex. Econolite ASC/2S-2100

RS232

BLUE TUBE (EAST)

ORANGE TUBE (WEST)

24 STRAND DROP

BLUE TUBE
ORANGE TUBE

PATCH PANEL ENCLOSURE – 24 TERMINATION

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# SIG4150: GREENLAWN AVE. AT HARMON AVE.
SEE SHEET 722

144 STRAND FOC

TO: INT# 1077: GREENLAWN AVE. AT I-71 NB RAMPS
SEE SHEET 724

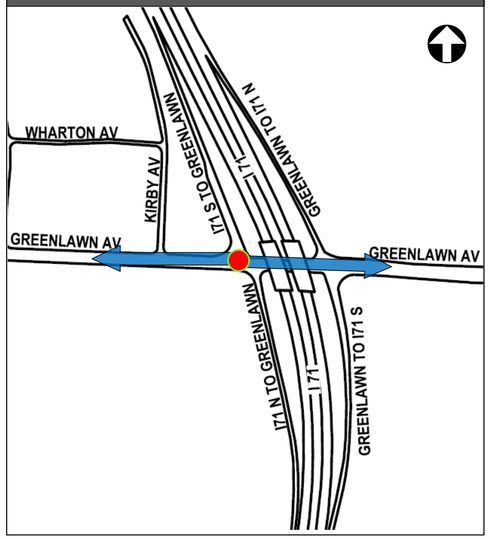
3 Cable Entries
24 Fusion Splices
11 Buffer Tubes Passed Through Unspliced

CLAMSHELL, 288 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 1076
REFER TO SHEET 238 FOR CONSTRUCTION PLAN DETAILS

CIP: 540007 - 100005
PID NUMBER: 14522

INT# 1076: GREENLAWN AVE. AT I-71 SB RAMPS
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

715-729.vsd - 1076 layout ~ last saved 5/2/2017 3:54:25 PM ~ printed: 8/11/2016 12:02:20 PM

TRAFFIC SIGNAL CABINET ASSEMBLY

ETHERNET SWITCH – LAYER 2

1 2 3 4 5 6 7 8

10/100 Mbs

ETHERNET SWITCH PORT DESTINATION

PORT 3: INT# 1078: DECKENBACH RD. AT GREENLAWN AVE.
SEE SHEET 725

PORT 5: INT# 2054: FRONT ST. AT GREENLAWN AVE.
SEE SHEET 726

PORT 6: INT# SIG4150: GREENLAWN AVE. AT HARMON AVE.
SEE SHEET 722

TERMINAL PORT SERVER

10/100 Mbs RS232 #1 RS232 #2

TRAFFIC SIGNAL CONTROLLER
Ex. Econolite ASC/2S-2100

RS232

PATCH PANEL ENCLOSURE – 24 TERMINATION

EXISTING CCTV CABINET

CCTV FIELD BOX

VIDEO/PTZ IP DATA
CCTV/HEATER POWER
ANALOG VIDEO
10/100 Mbs

EXISTING COMPOSITE CCTV CABLE

EXISTING CCTV

TEMPORARY WIRELESS LINK TO INT# 1078: DECKENBACH RD. AT GREENLAWN AVE.
SEE SHEET 725

BLUE TUBE (EAST)

ORANGE TUBE (WEST)

24 STRAND DROP

CAP AND COIL 150' OF 24SMF FIBER OPTIC CABLE FOR FUTURE ODOT CONNECTION

24SMF CABLE ODOT (Future)

BLUE TUBE
ORANGE TUBE

1-6
7-12
7-12
1-6
1-6
7-12

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# 1076: GREENLAWN AVE. AT I-71 SB RAMPS
SEE SHEET 723

144 STRAND FOC

TO:
INT# 1078: DECKENBACH RD. AT GREENLAWN AVE.
SEE SHEET 725

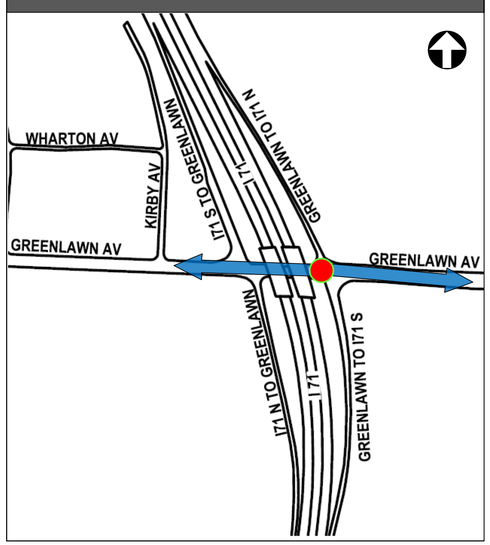
4 Cable Entries
42 Fusion Splices
1 Coiled Buffer Tube
10 Buffer Tubes Passed Through Unspliced

CLAMSHELL, 288 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 1077
REFER TO SHEET 239 FOR CONSTRUCTION PLAN DETAILS

CIP: 540007 - 100005
PID NUMBER: 14522

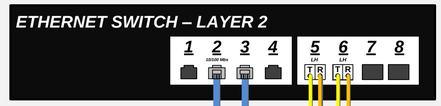
INT# 1077: GREENLAWN AVE. AT I-71 NB RAMPS
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

724
911

715-729.vsd - 1077 layout - last saved 5/2/2017 3:54:25 PM - printed: 8/11/2016 12:02:20 PM

TRAFFIC SIGNAL CABINET ASSEMBLY



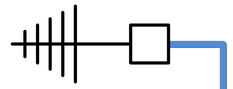
ETHERNET SWITCH PORT DESTINATION

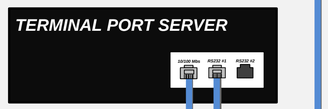
PORT 3: INT# 1077: GREENLAWN AVE. AT I-71 NB RAMPS
SEE SHEET 724

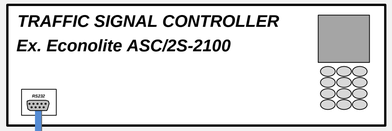
PORT 5: INT# 2060: HIGH ST. AT SOUTHWOOD AVE.
SEE SHEET 808

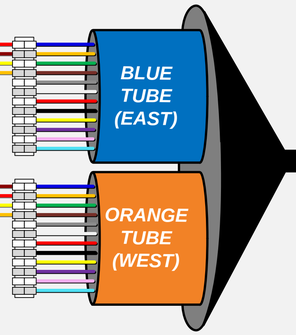
PORT 6: INT# 1076: GREENLAWN AVE. AT I-71 SB RAMPS
SEE SHEET 723

TEMPORARY WIRELESS LINK TO INT# 1077: GREENLAWN AVE. AT I-71 NB RAMPS
SEE SHEET 724









24 STRAND DROP





TO: INT# 1077: GREENLAWN AVE. AT I-71 NB RAMPS
SEE SHEET 724

TO: INT# 2054: FRONT ST. AT GREENLAWN AVE.
SEE SHEET 728

3 Cable Entries
156 Fusion Splices

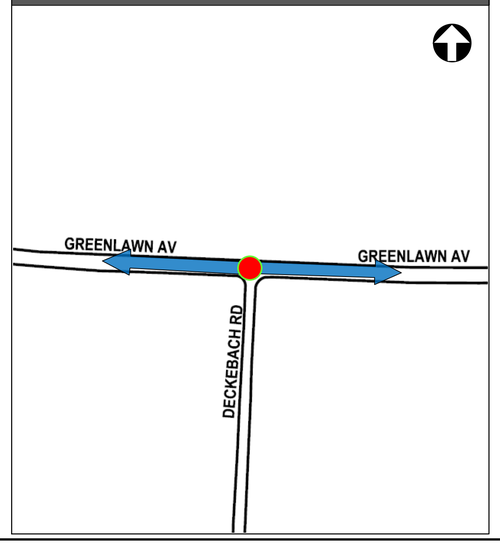
CLAMSHELL, 288 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

PATCH PANEL ENCLOSURE – 24 TERMINATION

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX T R GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 1078
REFER TO SHEET 241 FOR CONSTRUCTION PLAN DETAILS

CIP: 540007 - 100005
PID NUMBER: 14522

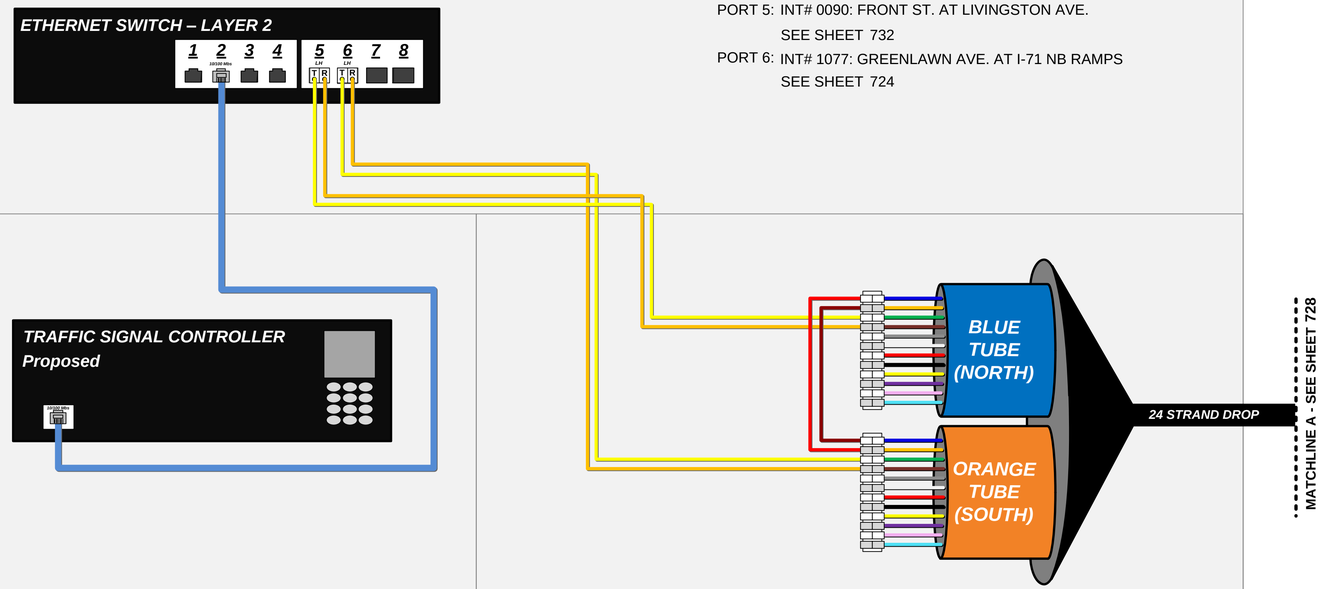
INT# 1078: DECKENBACH RD. AT GREENLAWN AVE.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

725
911

715-729.vsd - 1078 layout ~ last saved 5/2/2017 3:54:25 PM ~ printed: 8/11/2016 12:02:20 PM

TRAFFIC SIGNAL CABINET ASSEMBLY



ETHERNET SWITCH PORT DESTINATION

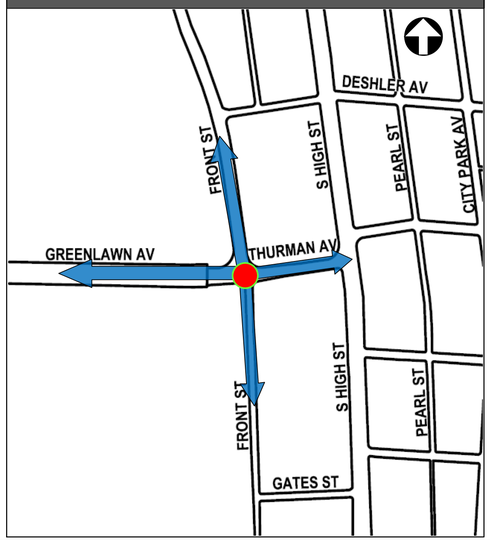
PORT 5: INT# 0090: FRONT ST. AT LIVINGSTON AVE.
SEE SHEET 732

PORT 6: INT# 1077: GREENLAWN AVE. AT I-71 NB RAMPS
SEE SHEET 724

LEGEND

- 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 – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- *LH/ZX* GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 2054

REFER TO SHEET 254 FOR CONSTRUCTION PLAN DETAILS

CIP: 540007 - 100005
PID NUMBER: 14522

INT# 2054: FRONT ST. AT GREENLAWN AVE.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

726
911

715-729.vsd - 2054 - CB layout ~ last saved 5/2/2017 3:54:25 PM ~ printed: 8/11/2016 12:02:20 PM

MATCHLINE A - SEE SHEET 728

MATCHLINE B - SEE SHEET 728

COMMUNICATION NODE
FIBER TERMINATION CABINET (#1)

144SMF DROP CABLE[2] (CTSS TRUNK)

144SMF DROP CABLE[2] (DoT TRUNK)

144SMF DROP CABLE[2] (CTSS TRUNK)

144SMF DROP CABLE[2] (DoT TRUNK)

CTSS 4RU PATCH PANEL

- 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
- NORTH
  - 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

DoT 4RU PATCH PANEL

- NORTH
  - 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
- SPARE
  - 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

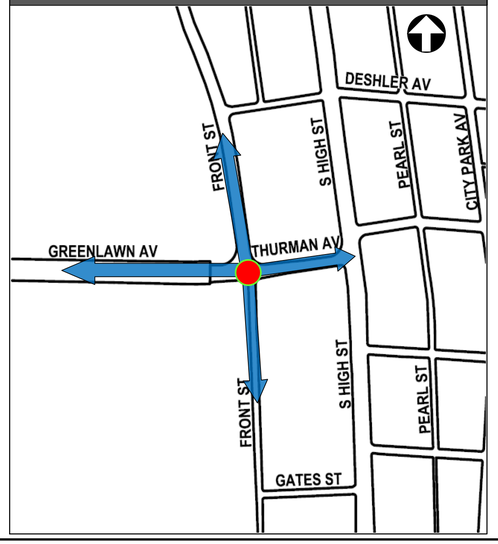
NOTES

[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
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX (T/R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 2054

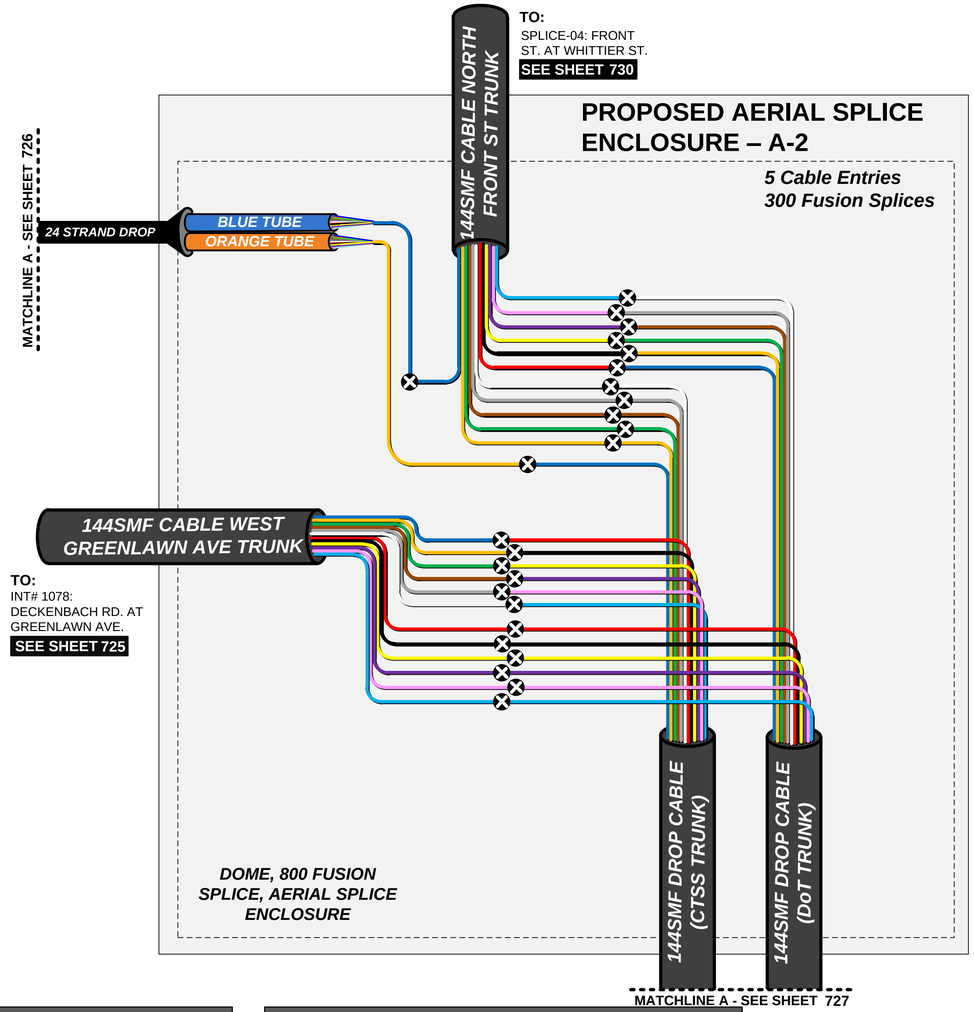
REFER TO SHEET 254 FOR CONSTRUCTION PLAN DETAILS

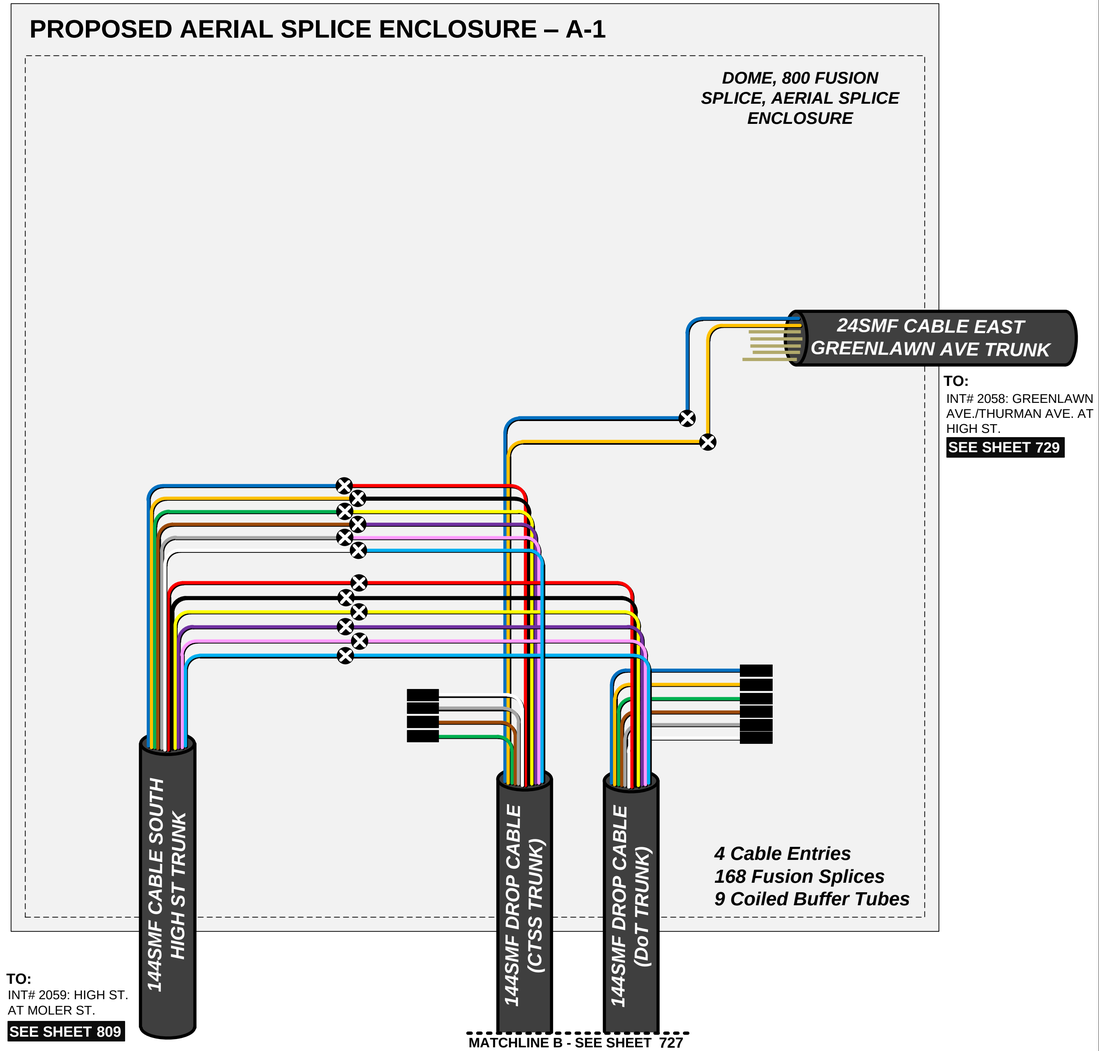
CIP: 540007 - 100005
PID NUMBER: 14522

INT# 2054: FRONT ST. AT GREENLAWN AVE.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

715-729.vsd - 2054 - CB(2) layout ~ last saved 5/2/2017 3:54:25 PM ~ printed: 8/11/2016 12:02:20 PM

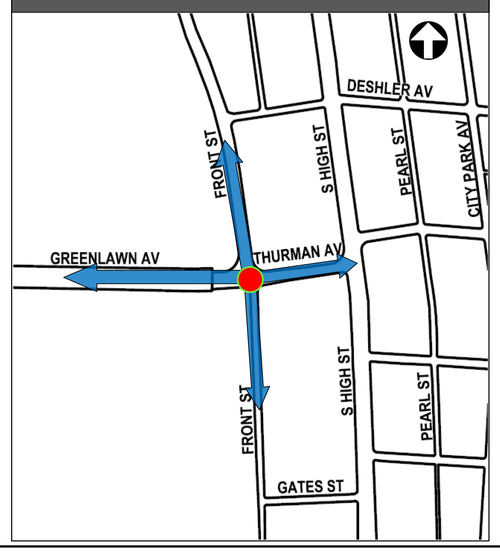




LEGEND

- 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 – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX — GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 2054

REFER TO SHEET 254 FOR CONSTRUCTION PLAN DETAILS

CIP: 540007 - 100005
PID NUMBER: 14522

INT# 2054: FRONT ST. AT GREENLAWN AVE.
FIBER OPTIC CABLE SPLICING DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

728
911

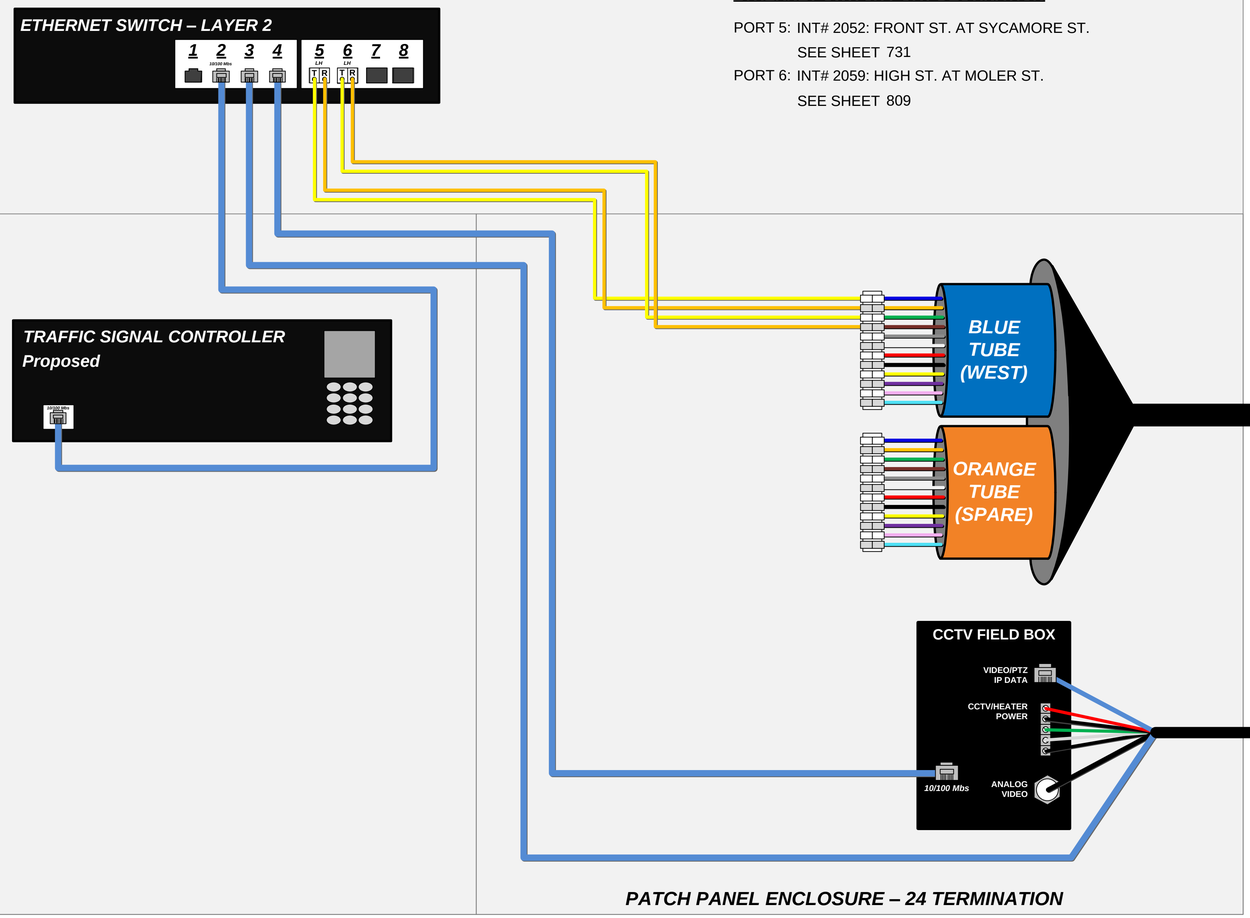
715-729.vsd - 2054 - SE layout ~ last saved 5/2/2017 3:54:25 PM ~ printed: 8/11/2016 12:02:20 PM

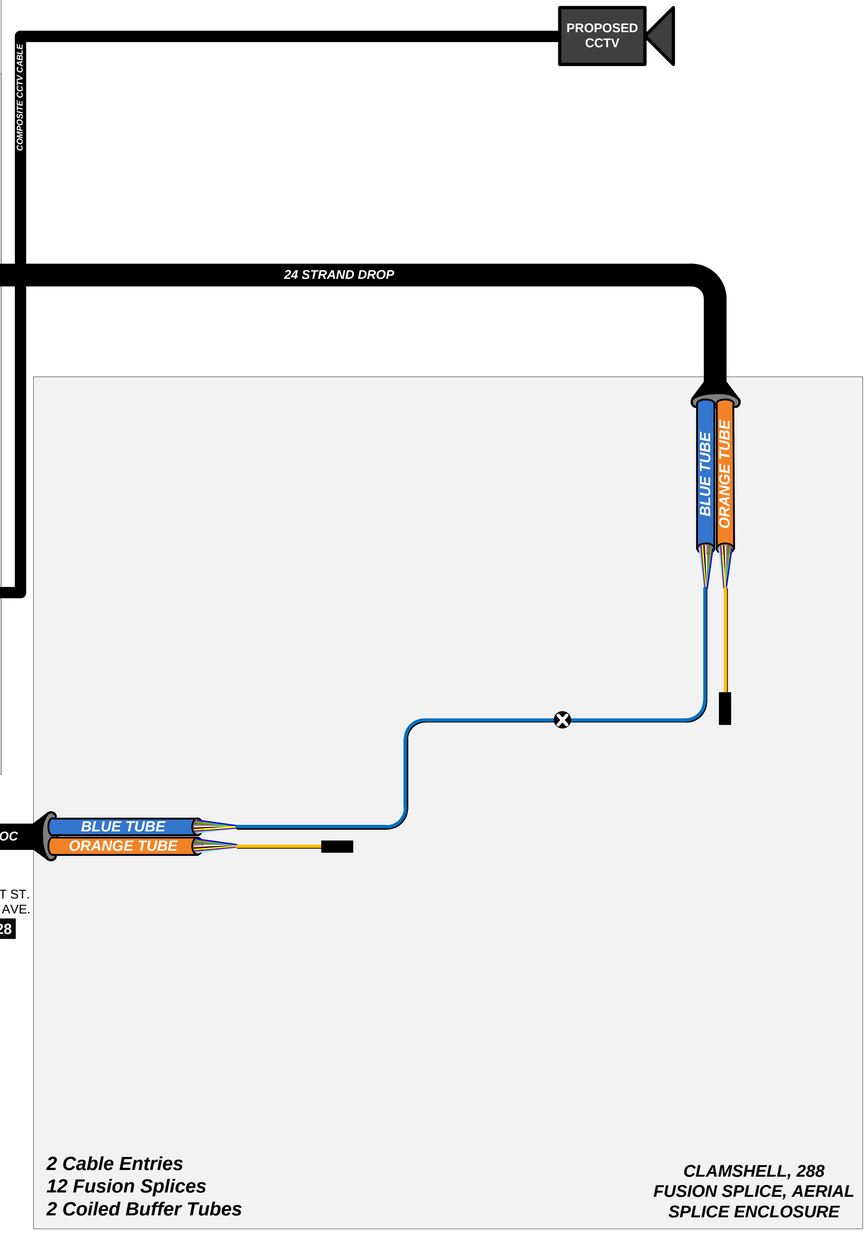
TRAFFIC SIGNAL CABINET ASSEMBLY

ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 2052: FRONT ST. AT SYCAMORE ST.
SEE SHEET 731

PORT 6: INT# 2059: HIGH ST. AT MOLER ST.
SEE SHEET 809





TO:
INT# 2054: FRONT ST.
AT GREENLAWN AVE.
SEE SHEET 728

LEGEND

- 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 – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 2058
REFER TO SHEET 252 FOR CONSTRUCTION PLAN DETAILS

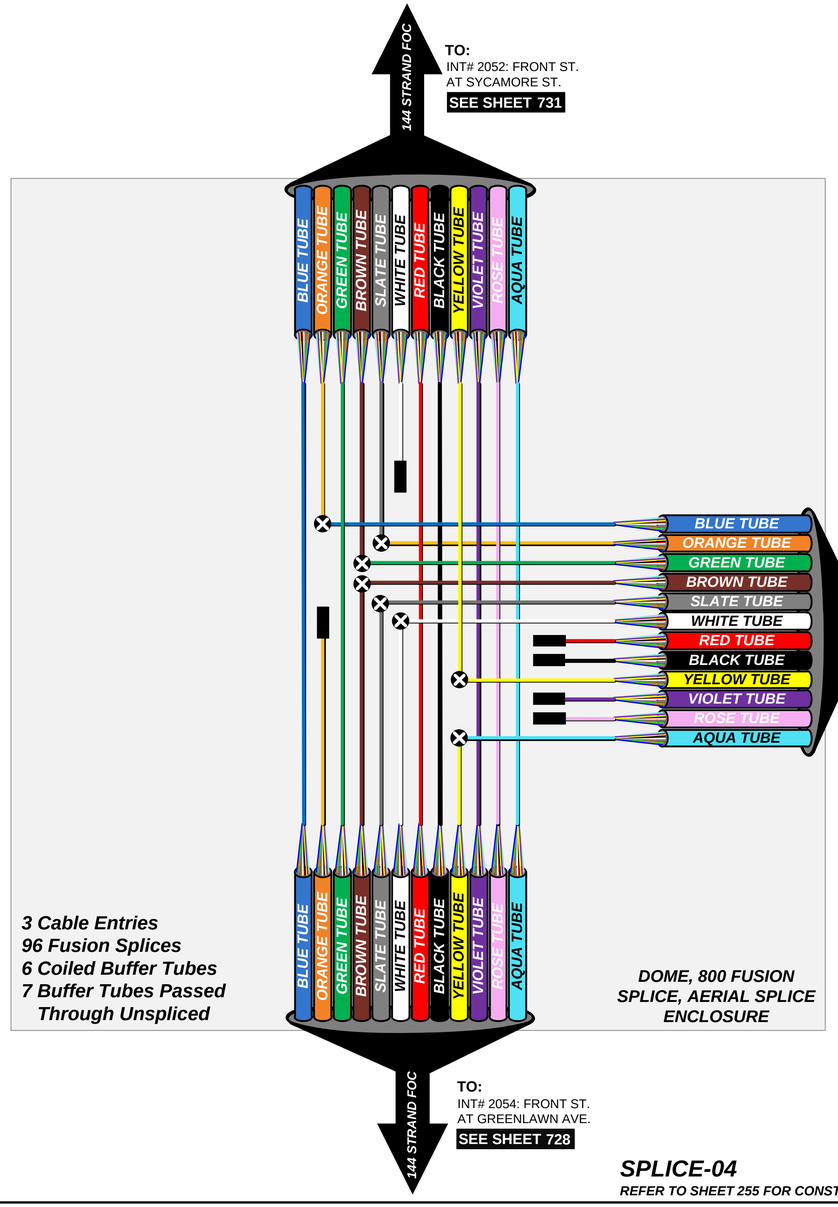
CIP: 540007 - 100005
PID NUMBER: 14522

INT# 2058: GREENLAWN AVE./THURMAN AVE. AT HIGH ST.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

729
911

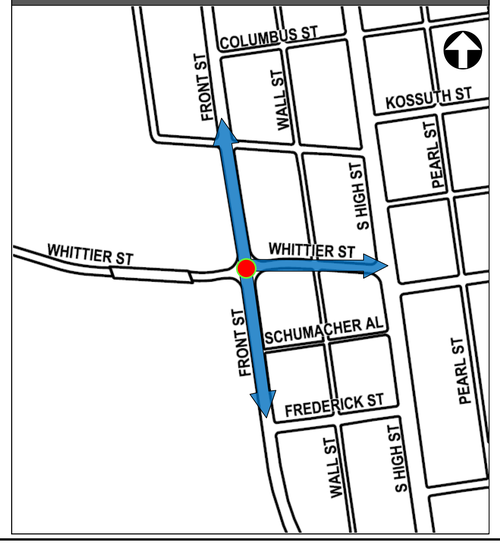
715-729.vsd - 2058 layout ~ last saved 5/2/2017 3:54:25 PM ~ printed: 8/11/2016 12:02:20 PM



LEGEND

- 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 – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX T R — GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

KEY PLAN



SPLICE-04

REFER TO SHEET 255 FOR CONSTRUCTION PLAN DETAILS

CIP: 540007 - 100005
PID NUMBER: 14522

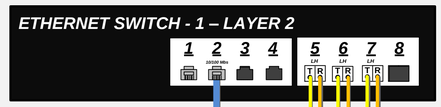
SPLICE-04: FRONT ST. AT WHITTIER ST.
COMMUNICATIONS DIAGRAM

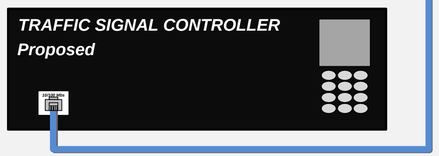
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

730
911

730-745.vsd - SPLICE-04 layout - last saved 5/2/2017 3:56:21 PM - printed: 3/11/2016 12:13:53 PM

TRAFFIC SIGNAL CABINET ASSEMBLY



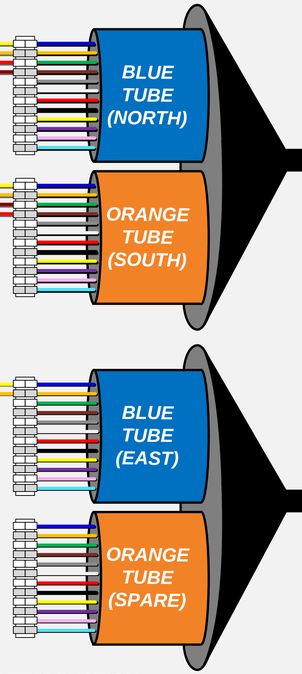


ETHERNET SWITCH -1 PORT DESTINATION

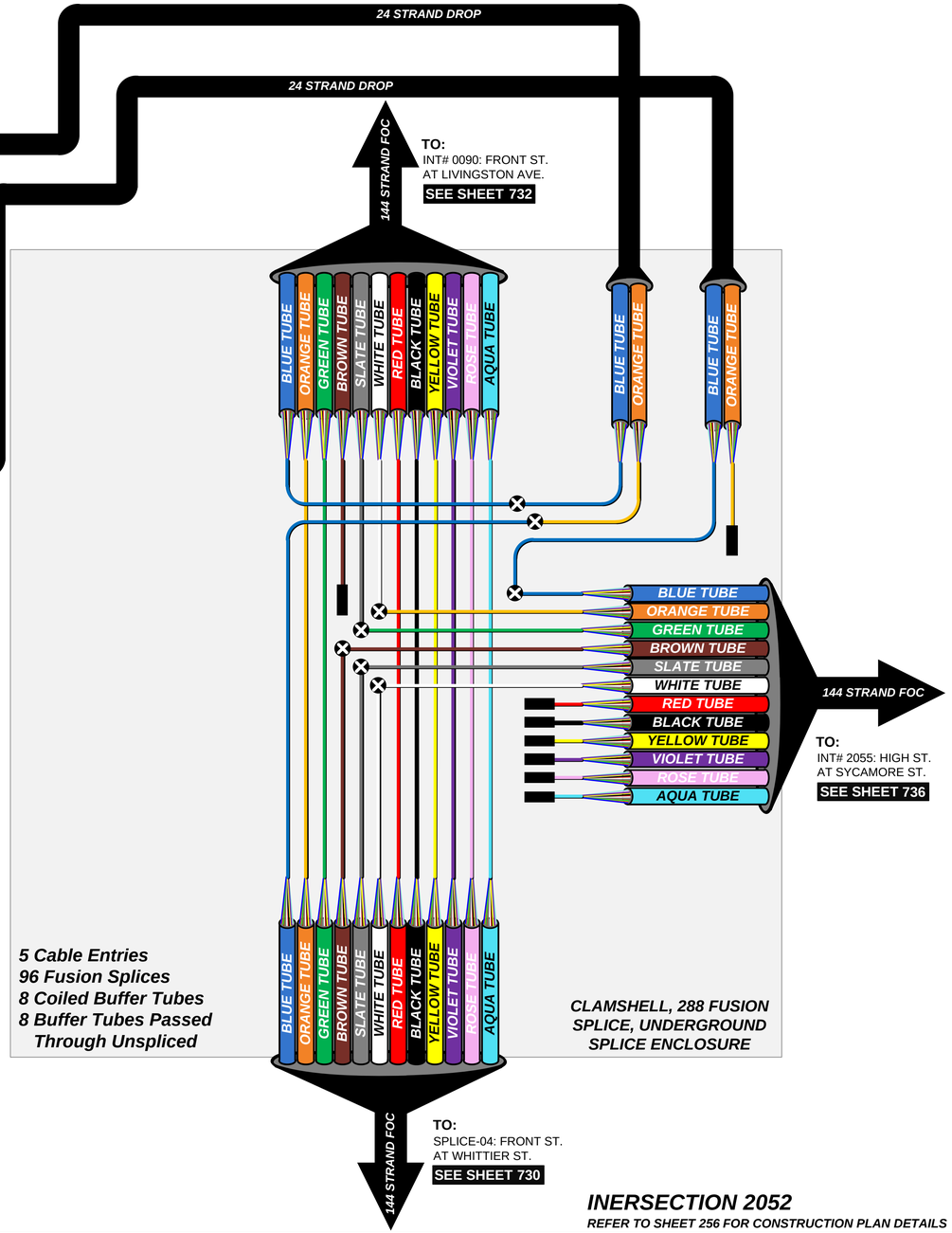
PORT 5: INT# 0091: HIGH ST. AT LIVINGSTON AVE.
SEE SHEET 738

PORT 6: INT# 2058: GREENLAWN AVE./THURMAN AVE. AT HIGH ST.
SEE SHEET 729

PORT 7: INT# 2055: HIGH ST. AT SYCAMORE ST.
SEE SHEET 736



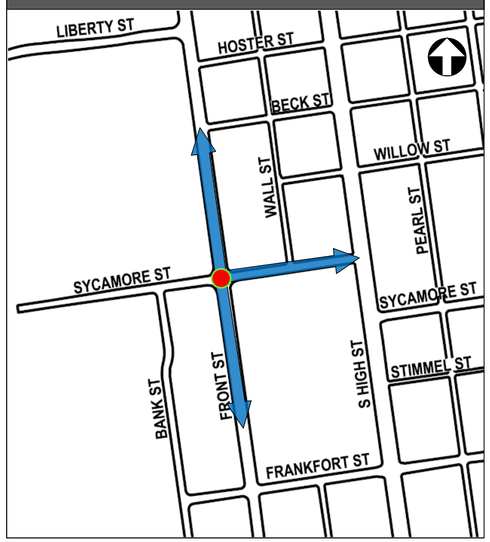
PATCH PANEL ENCLOSURES: (2) - 24 TERMINATION



LEGEND

- 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 – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

KEY PLAN



INERSECTION 2052

REFER TO SHEET 256 FOR CONSTRUCTION PLAN DETAILS

CIP: 540007 - 100005
PID NUMBER: 14522

INT# 2052: FRONT ST. AT SYCAMORE ST.
COMMUNICATIONS DIAGRAM

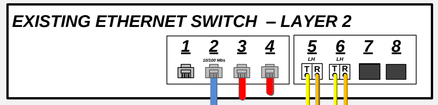
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

731
911

730-745.vsd - 2052 layout ~ last saved 5/2/2017 3:56:21 PM ~ printed: 3/11/2016 12:13:53 PM

TRAFFIC SIGNAL CABINET ASSEMBLY

EXISTING ETHERNET SWITCH – LAYER 2



TRAFFIC SIGNAL CONTROLLER
Ex. Econolite ASC/3-2100

Ethernet Module
10/100 Mbs

ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 0092: LIVINGSTON AVE. AT THIRD ST.
SEE SHEET 739

PORT 6: INT# 2054: FRONT ST. AT GREENLAWN AVE.
SEE SHEET 726

REMOVE EXISTING WIRELESS LINK TO INT# 0082 FRONT ST. AT MOUND ST.

REMOVE EXISTING WIRELESS LINK

REMOVE EXISTING WIRELESS LINK

REMOVE EXISTING WIRELESS LINK TO INT# 0091 HIGH ST. AT LIVINGSTON AVE.

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# 0082: FRONT ST. AT MOUND ST.
SEE SHEET 733

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

144 STRAND FOC

TO: INT# 0091: HIGH ST. AT LIVINGSTON AVE.
SEE SHEET 738

5 Cable Entries
156 Fusion Splices
2 Coiled Buffer Tubes
6 Buffer Tubes Passed Through Unspliced

CLAMSHELL, 288 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE

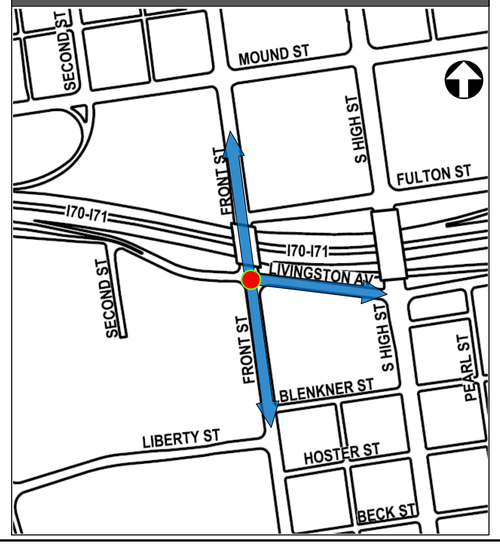
144 STRAND FOC

TO: INT# 2052: FRONT ST. AT SYCAMORE ST.
SEE SHEET 731

LEGEND

- 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 – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- *LH/ZX* GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 0090

REFER TO SHEET 259 FOR CONSTRUCTION PLAN DETAILS

CIP: 540007 - 100005
PID NUMBER: 14522

INT# 0090: FRONT ST. AT LIVINGSTON AVE.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

732
911

730-745.vsd - 0090 layout - last saved 5/2/2017 3:56:21 PM - printed: 3/11/2016 12:13:53 PM

TRAFFIC SIGNAL CABINET ASSEMBLY

EXISTING ETHERNET SWITCH - 1 – LAYER 2

1 2 3 4 (10/100 Mbs) 5 6 7 8 (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# 0074:FRONT ST. AT MAIN ST.

PORT 6: EXISTING CONNECTION TO INT# 0084:MOUND ST. AT THIRD ST.

PORT 7: EXISTING CONNECTION TO INT# 0083:HIGH ST. AT MOUND ST.

BLUE TUBE (NORTH)
ORANGE TUBE (EAST)
24 STRAND DROP
PULLBOX - SPLICE TO DROP CABLE
24 STRAND DROP
BUILDING - SPLICE TO RISER CABLE
24 STRAND RISER CABLE THROUGH BUILDING SPACE

EXISTING PATCH PANEL ENCLOSURE – 24 TERMINATION

LH
LAYER 2 ETHERNET SWITCH
10/100 Mbs
EXISTING CCTV FIELD CONTROLLER
10/100 Mbs
EXISTING CCTV

COMMUNICATION CENTER AT TOP OF 375 S HIGH ST. BUILDING

REMOVE EXISTING WIRELESS LINK

24 STRAND DROP
24 STRAND DROP

BLUE TUBE (SOUTH)
ORANGE TUBE (SPARE)

PROPOSED PATCH PANEL ENCLOSURE – 24 TERMINATION

144 STRAND FOC

TO:
INT# 0074: MAIN ST. AT MOUND ST.
SEE SHEET 734

REMOVE EXISTING WIRELESS LINK TO
INT# 0090:
FRONT ST. AT FULTON ST. & LIVINGSTON AVE.

BLUE TUBE (NORTH)
ORANGE TUBE (EAST)
24 STRAND DROP

EXISTING PATCH PANEL ENCLOSURE – 24 TERMINATION

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

BLUE TUBE
ORANGE TUBE
BLUE TUBE
ORANGE TUBE

144 STRAND FOC

TO:
EXISTING CONNECTION INT# 0083:HIGH ST. AT MOUND ST.

5 Cable Entries
168 Proposed Fusion Splices
24 Existing Fusion Splices
2 Coiled Buffer Tubes

144 STRAND FOC

TO:
INT# 0090: FRONT ST. AT LIVINGSTON AVE.
SEE SHEET 732

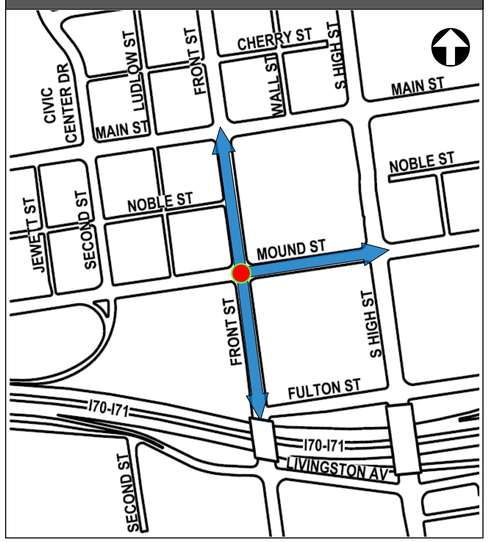
NOTES

REMOVE EXISTING FUSION SPLICES AND RESPLICE 144 STRAND FIBERS AS SHOWN IN THE DIAGRAM ABOVE.

LEGEND

- 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 – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 0082

REFER TO SHEET 259 FOR CONSTRUCTION PLAN DETAILS

CIP: 540007 - 100005
PID NUMBER: 14522

INT# 0082: FRONT ST. AT MOUND ST.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

733
911

730-745.vsd - 0082(Phase B) layout ~ last saved 5/2/2017 3:56:21 PM ~ printed: 3/11/2016 12:13:53 PM

TRAFFIC SIGNAL CABINET ASSEMBLY

EXISTING ETHERNET SWITCH – LAYER 2

1 2 3 4 5 6 7 8

TRAFFIC SIGNAL CONTROLLER
Ex. Econolite ASC/3-2100

Ethernet Module
10/100 Mbs

ETHERNET SWITCH PORT DESTINATION

PORT 5: EXISTING CONNECTION TO INT# 0068: FRONT ST. AT RICH ST.

PORT 6: EXISTING CONNECTION TO INT# 0082: MAIN ST. AT SECOND ST.

PORT 7: EXISTING CONNECTION TO INT# 0073: FRONT ST. AT MOUND ST.

BLUE TUBE (NORTH)

ORANGE TUBE (SOUTH)

BLUE TUBE (WEST)

ORANGE TUBE (SPARE)

CCTV FIELD BOX
- VIDEO/PTZ IP DATA
- CCTV/HEATER POWER
- 10/100 Mbs
- ANALOG VIDEO

COMPOSITE CCTV CABLE

PROPOSED CCTV

EXISTING 48 STRAND DROP

EXISTING 48 STRAND DROP

144 STRAND FOC

TO:
EXISTING CONNECTION TO INT# 0068: FRONT ST. AT RICH 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

144 STRAND FOC

TO:
EXISTING CONNECTION TO INT# 0073: MAIN ST. AT SECOND ST.

144 STRAND FOC

TO:
INT# 0082: FRONT ST. AT MOUND ST.
SEE SHEET 733

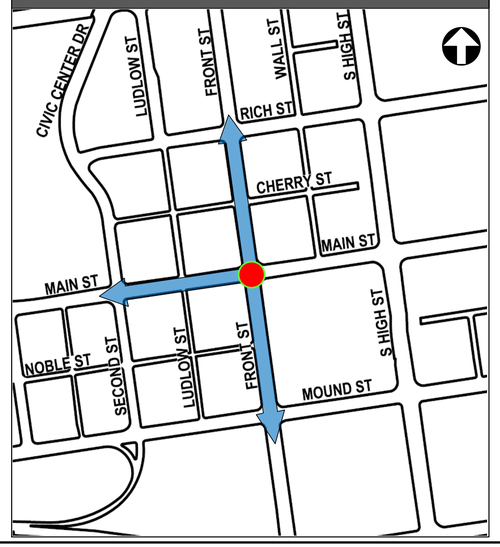
EXISTING PATCH PANEL ENCLOSURE – 48 TERMINATION

EXISTING UNDERGROUND SPLICE ENCLOSURE

LEGEND

- 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 – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 0074

REFER TO SHEET 260 FOR CONSTRUCTION PLAN DETAILS

CIP: 540007 - 100005
PID NUMBER: 14522

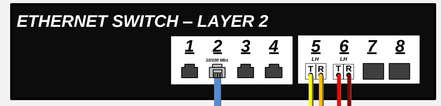
INT# 0074: MAIN ST. AT MOUND ST.
COMMUNICATIONS DIAGRAM

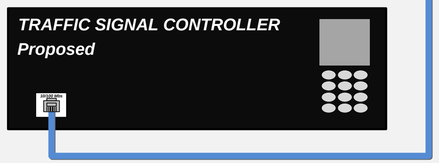
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

734
911

730-745.vsd - 0074(Phase B-Camera) layout ~ last saved 5/2/2017 3:56:21 PM ~ printed: 3/11/2016 12:13:53 PM

TRAFFIC SIGNAL CABINET ASSEMBLY

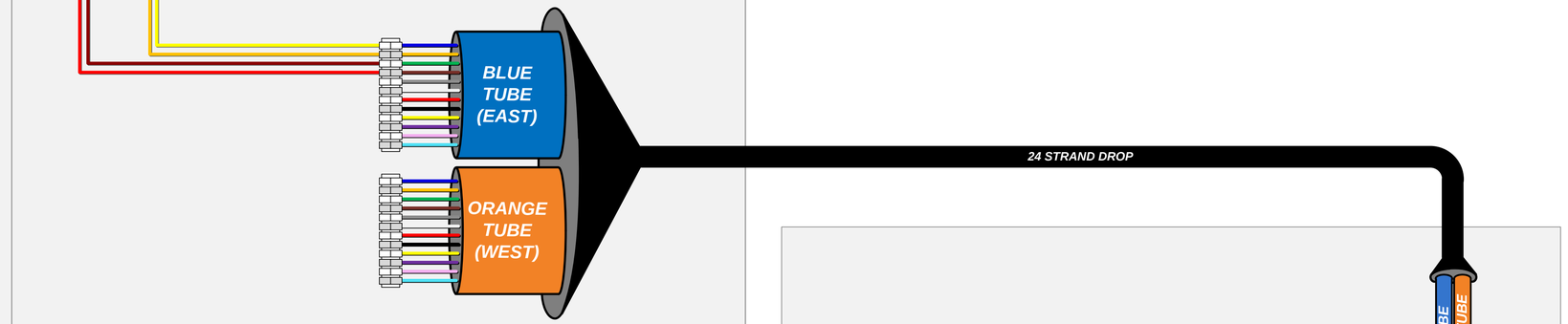




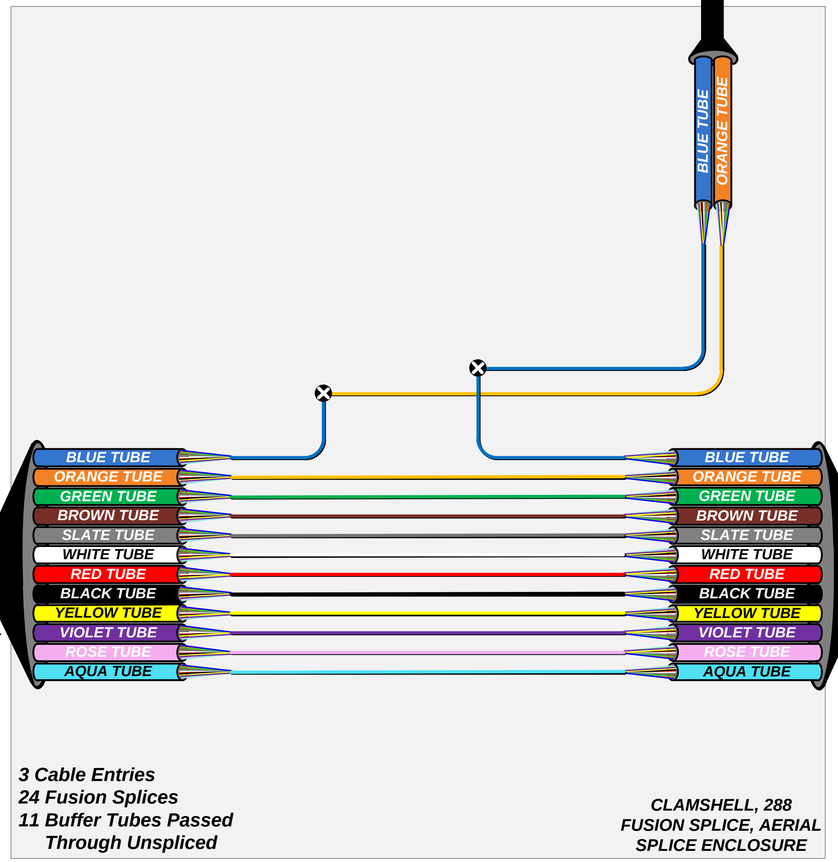
ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 2074: JAEGER ST. AT WHITTIER ST.
SEE SHEET 777

PORT 6: INT# 2072: THIRD ST. AT WHITTIER ST.
SEE SHEET 776



PATCH PANEL ENCLOSURE – 24 TERMINATION



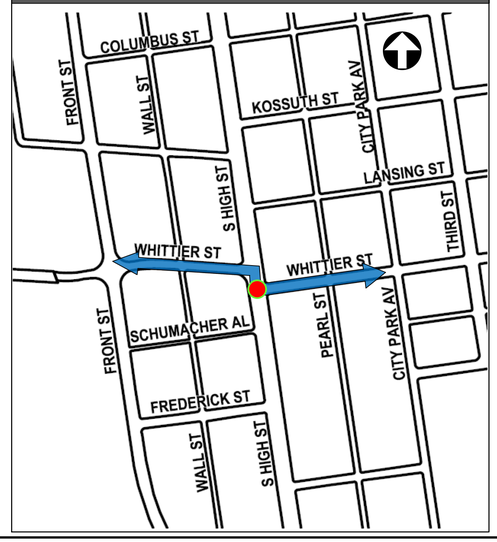
3 Cable Entries
24 Fusion Splices
11 Buffer Tubes Passed Through Unspliced

CLAMSHELL, 288 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX — GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 2056

REFER TO SHEET 387 FOR CONSTRUCTION PLAN DETAILS

CIP: 540007 - 100005
PID NUMBER: 14522

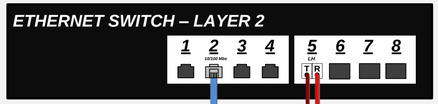
INT# 2056: HIGH ST. AT WHITTIER ST.
COMMUNICATIONS DIAGRAM

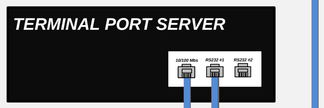
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

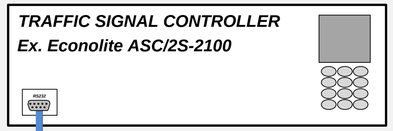
735
911

730-745.vsd - 2056 layout ~ last saved 5/2/2017 3:56:21 PM ~ printed: 3/11/2016 12:13:53 PM

TRAFFIC SIGNAL CABINET ASSEMBLY

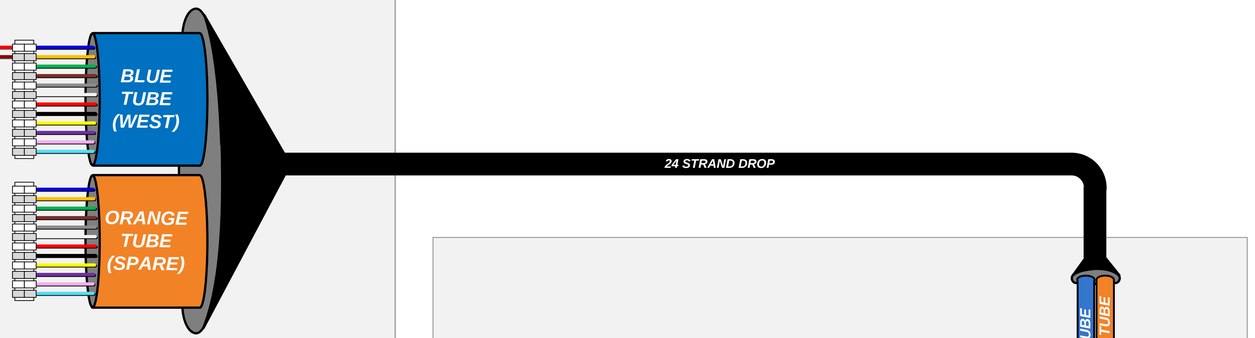


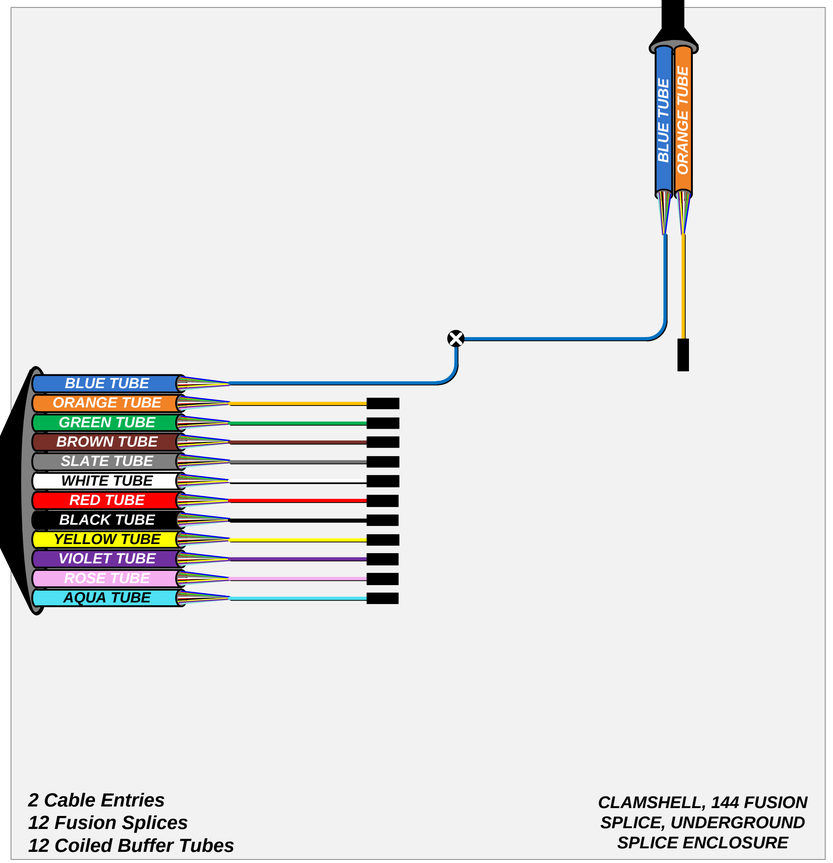




ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 2052: FRONT ST. AT SYCAMORE ST.
SEE SHEET 731





TO:
INT# 2052: FRONT ST. AT SYCAMORE ST.
SEE SHEET 731

2 Cable Entries
12 Fusion Splices
12 Coiled Buffer Tubes

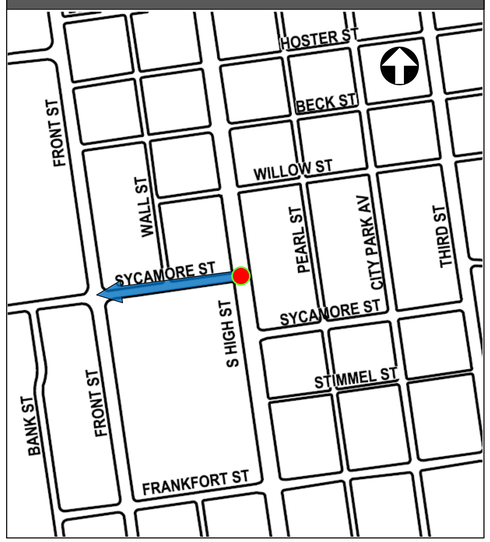
CLAMSHELL, 144 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE

PATCH PANEL ENCLOSURE – 24 TERMINATION

LEGEND

- 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 – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- *LH/ZX* GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 2055
REFER TO SHEET 261 FOR CONSTRUCTION PLAN DETAILS

CIP: 540007 - 100005
PID NUMBER: 14522

INT# 2055: HIGH ST. AT SYCAMORE ST.
COMMUNICATIONS DIAGRAM

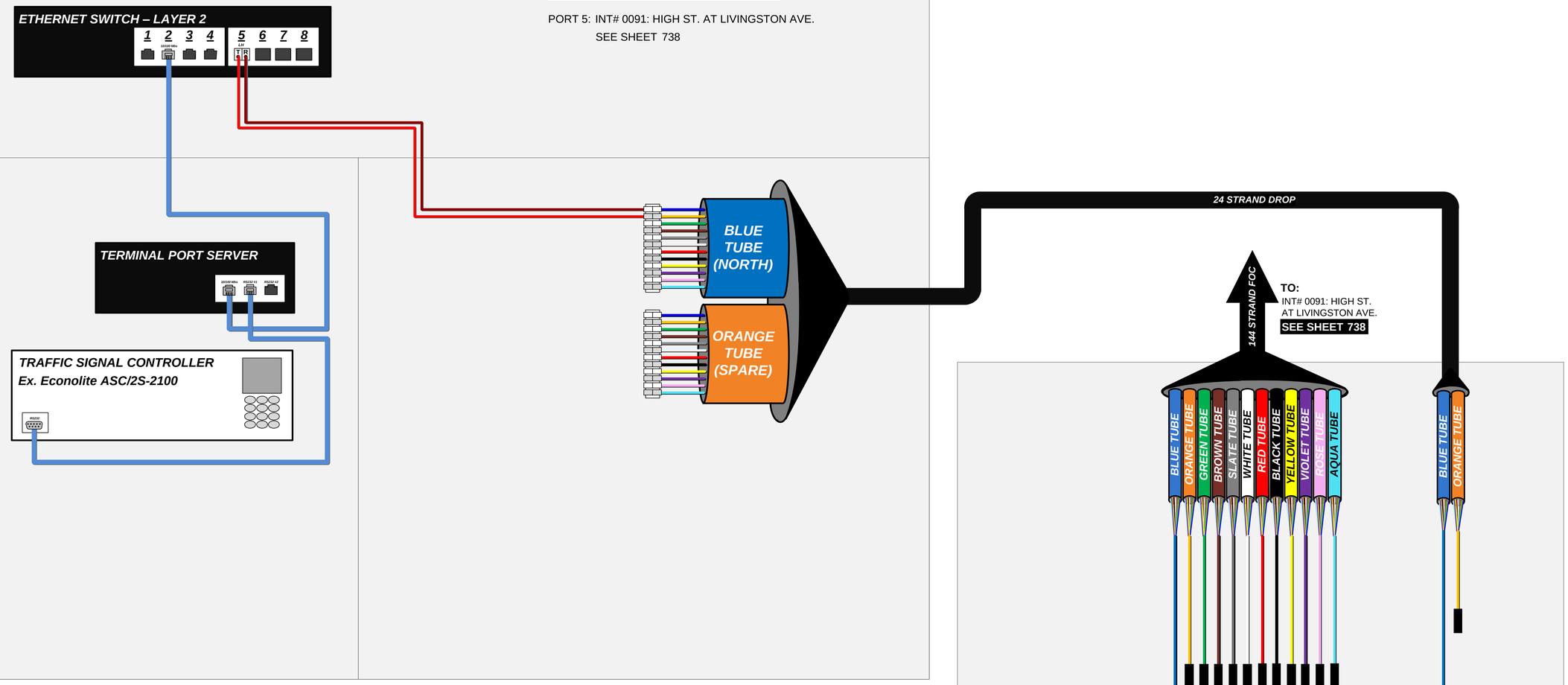
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

730-745.vsd - 2055 layout ~ last saved 5/2/2017 3:56:21 PM ~ printed: 3/11/2016 12:13:53 PM

TRAFFIC SIGNAL CABINET ASSEMBLY

ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 0091: HIGH ST. AT LIVINGSTON AVE.
SEE SHEET 738



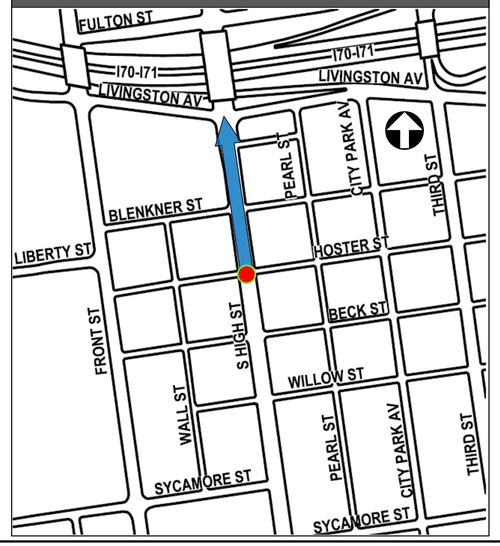
2 Cable Entries
12 Fusion Splices
12 Coiled Buffer Tubes

CLAMSHELL, 288
FUSION SPLICE, AERIAL
SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- *LH/ZX* GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 2071
REFER TO SHEET 304 FOR CONSTRUCTION PLAN DETAILS

CIP: 540007 - 100005
PID NUMBER: 14522

INT# 2071: HIGH ST. AT HOSTER ST.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

737
911

730-745.vsd - 2071 layout ~ last saved 5/2/2017 3:56:21 PM ~ printed: 3/11/2016 12:13:53 PM

TRAFFIC SIGNAL CABINET ASSEMBLY

EXISTING ETHERNET SWITCH – LAYER 2

1 2 3 4 5 6 7 8

ETHERNET SWITCH PORT DESTINATION

PORT 3: INT# 0087: FULTON ST. AT HIGH ST.
(DISABLE WIRELESS LINK AFTER FIBER LINK IS ONLINE)

PORT 5: INT# 2004: LIVINGSTON AVE. AT MOHAWK AVE.
SEE SHEET 740

PORT 6: INT# 2052: FRONT ST. AT SYCAMORE ST.
SEE SHEET 731

PORT 7: INT# 2071: HIGH ST. AT HOSTER ST.
SEE SHEET 737

EXISTING WIRELESS LINK TO: INT# 0087 FULTON ST. AT HIGH ST.

REMOVE EXISTING WIRELESS LINK TO INT# 0092: LIVINGSTON AVE. AT THIRD ST.

REMOVE EXISTING WIRELESS LINK

REMOVE EXISTING WIRELESS LINK

REMOVE EXISTING WIRELESS LINK TO INT# 0090: FRONT ST. AT FULTON ST. & LIVINGSTON AVE.

TRAFFIC SIGNAL CONTROLLER
Ex. Econolite ASC/3-2100

Ethernet Module
10/100 Mbs

BLUE TUBE (SPARE)
ORANGE TUBE (SOUTH)
BLUE TUBE (EAST)
ORANGE TUBE (WEST)

24 STRAND DROP
24 STRAND DROP

BLUE TUBE
ORANGE TUBE

BLUE TUBE
ORANGE TUBE

PATCH PANEL ENCLOSURES: (2) – 24 TERMINATION

144 STRAND FOC

TO: INT# 0090: FRONT ST. AT LIVINGSTON AVE.
SEE SHEET 732

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# 0092: LIVINGSTON AVE. AT THIRD ST.
SEE SHEET 739

5 Cable Entries
96 Fusion Splices
8 Coiled Buffer Tubes
8 Buffer Tubes Passed Through Unspliced

DOME, 800 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

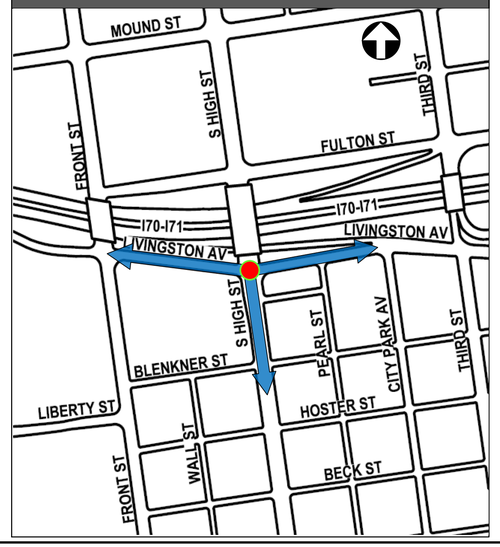
144 STRAND FOC

TO: INT# 2071: HIGH ST. AT HOSTER ST.
SEE SHEET 737

LEGEND

- 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 – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 0091
REFER TO SHEET 303 FOR CONSTRUCTION PLAN DETAILS

CIP: 540007 - 100005
PID NUMBER: 14522

INT# 0091: HIGH ST. AT LIVINGSTON AVE.
COMMUNICATIONS DIAGRAM

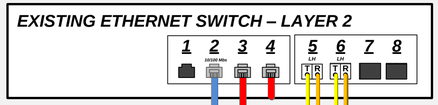
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

738
911

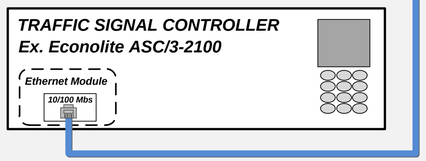
730-745.vsd - 0091 layout - last saved 5/2/2017 3:56:21 PM – printed: 3/11/2016 12:13:53 PM

TRAFFIC SIGNAL CABINET ASSEMBLY

EXISTING ETHERNET SWITCH – LAYER 2



TRAFFIC SIGNAL CONTROLLER
Ex. Econolite ASC/3-2100



ETHERNET SWITCH PORT DESTINATION

PORT 3: INT# 0088: FULTON ST. AT THIRD ST.
(DISABLE WIRELESS LINK AFTER FIBER LINK IS ONLINE)

PORT 5: INT# 2006: GRANT AVE. AT LIVINGSTON AVE.
SEE SHEET 741

PORT 6: INT# 0090: FRONT ST. AT LIVINGSTON AVE.
SEE SHEET 732

EXISTING WIRELESS LINK TO: INT# 0088 FULTON ST. AT THIRD ST.

EXISTING WIRELESS LINK TO: INT# 0091 HIGH ST. AT LIVINGSTON AVE.

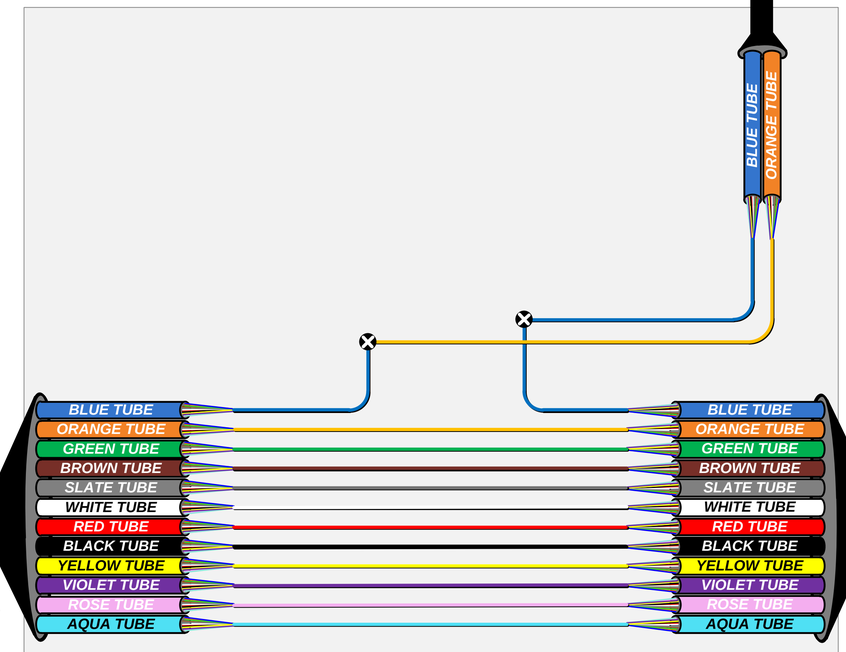
REMOVE EXISTING WIRELESS LINK

BLUE TUBE (EAST)

ORANGE TUBE (WEST)

24 STRAND DROP

PATCH PANEL ENCLOSURE – 24 TERMINATION



TO:
INT# 0091: HIGH ST. AT LIVINGSTON AVE.
SEE SHEET 738

TO:
INT# 2004: LIVINGSTON AVE. AT MOHAWK AVE.
SEE SHEET 740

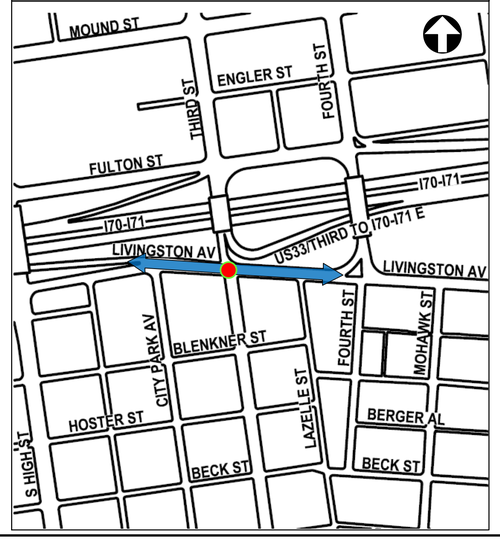
3 Cable Entries
24 Fusion Splices
11 Buffer Tubes Passed Through Unspliced

CLAMSHELL, 288 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- *LH/ZX* GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 0092
REFER TO SHEET 305 FOR CONSTRUCTION PLAN DETAILS

CIP: 540007 - 100005
PID NUMBER: 14522

INT# 0092: LIVINGSTON AVE. AT THIRD ST.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

739
911

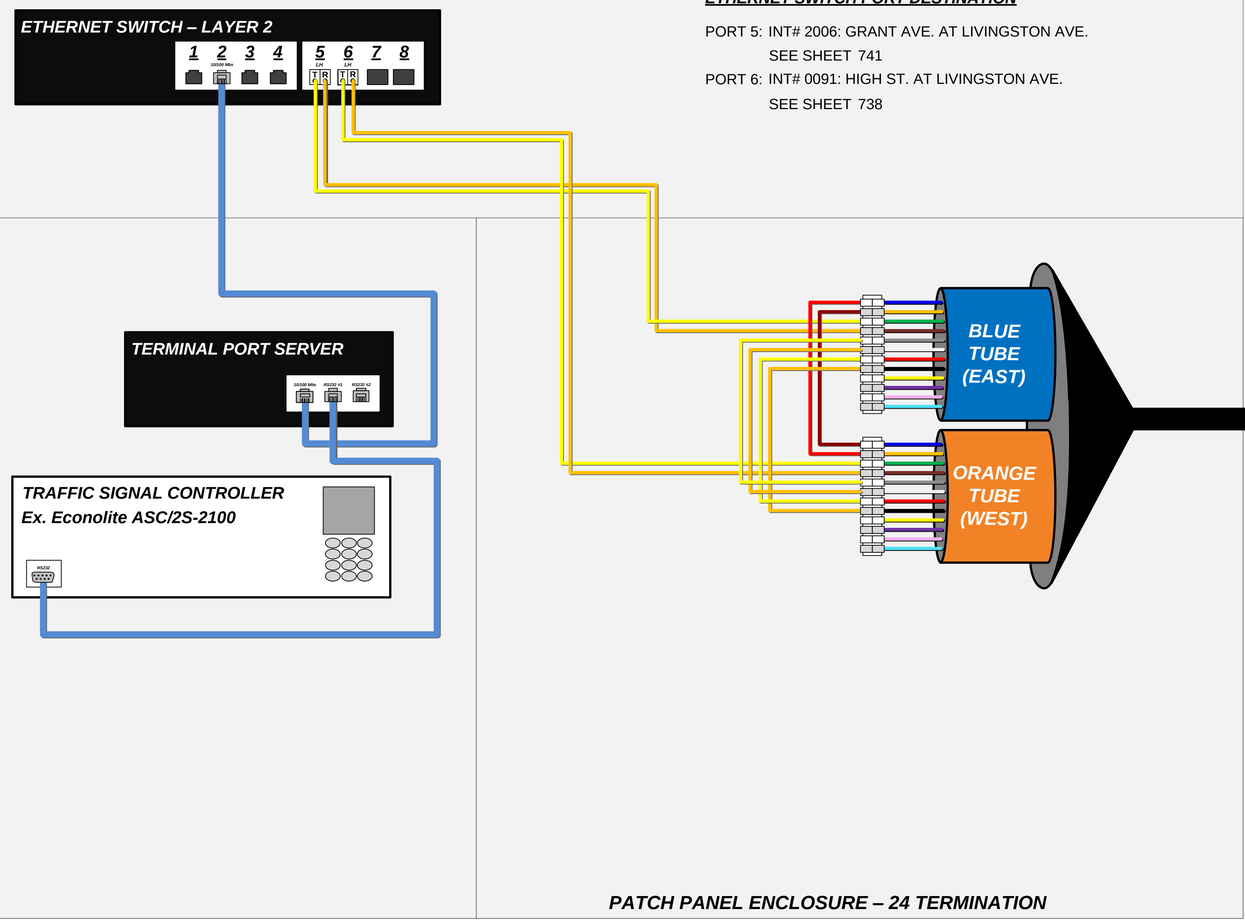
730-745.vsd - 0092 layout ~ last saved 5/2/2017 3:56:21 PM ~ printed 3/11/2016 12:13:53 PM

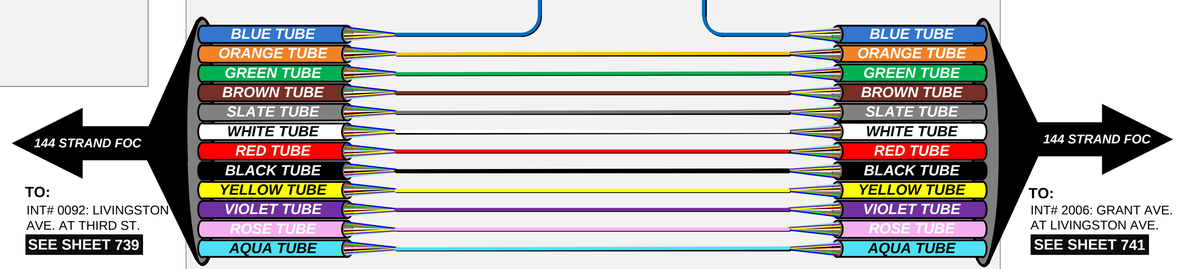
TRAFFIC SIGNAL CABINET ASSEMBLY

ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 2006: GRANT AVE. AT LIVINGSTON AVE.
SEE SHEET 741

PORT 6: INT# 0091: HIGH ST. AT LIVINGSTON AVE.
SEE SHEET 738





TO:
INT# 0092: LIVINGSTON AVE. AT THIRD ST.
SEE SHEET 739

TO:
INT# 2006: GRANT AVE. AT LIVINGSTON AVE.
SEE SHEET 741

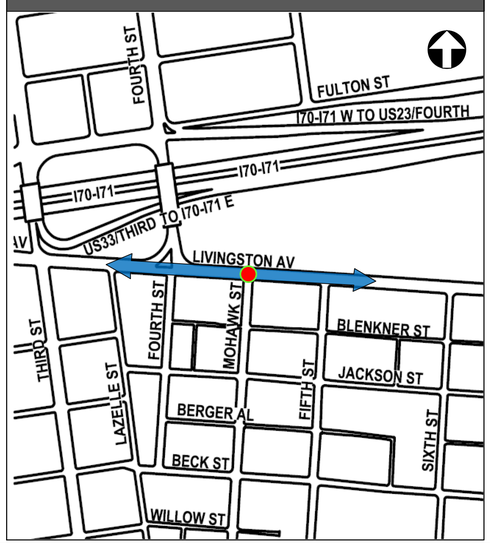
3 Cable Entries
24 Fusion Splices
11 Buffer Tubes Passed Through Unspliced

CLAMSHELL, 288 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX — GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 2004
REFER TO SHEET 306 FOR CONSTRUCTION PLAN DETAILS

CIP: 540007 - 100005
PID NUMBER: 14522

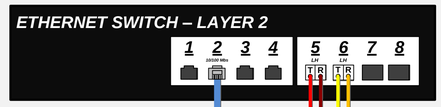
INT# 2004: LIVINGSTON AVE. AT MOHAWK AVE.
COMMUNICATIONS DIAGRAM

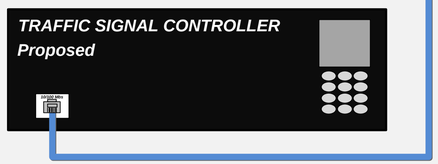
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

740
911

730-745.vsd - 2004 layout ~ last saved 5/2/2017 3:56:21 PM ~ printed: 3/11/2016 12:13:53 PM

TRAFFIC SIGNAL CABINET ASSEMBLY

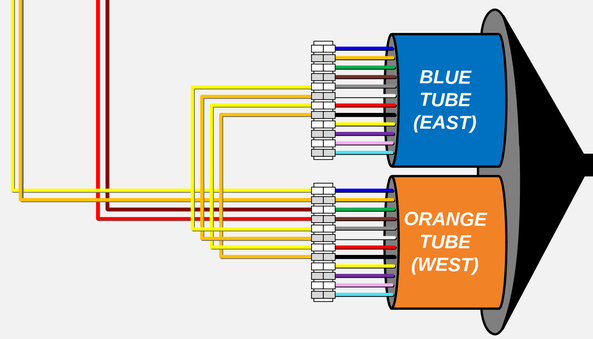




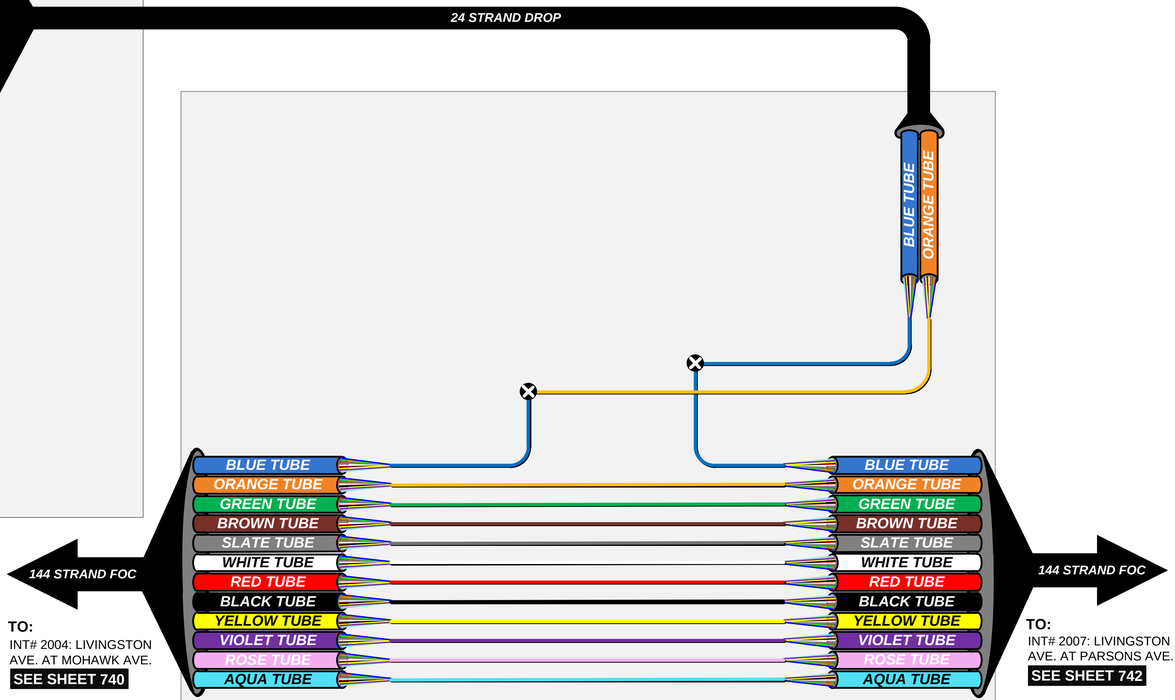
ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 2004: LIVINGSTON AVE. AT MOHAWK AVE.
SEE SHEET 740

PORT 6: INT# 0092: LIVINGSTON AVE. AT THIRD ST.
SEE SHEET 739



PATCH PANEL ENCLOSURE – 24 TERMINATION



TO:
INT# 2004: LIVINGSTON AVE. AT MOHAWK AVE.
SEE SHEET 740

TO:
INT# 2007: LIVINGSTON AVE. AT PARSONS AVE.
SEE SHEET 742

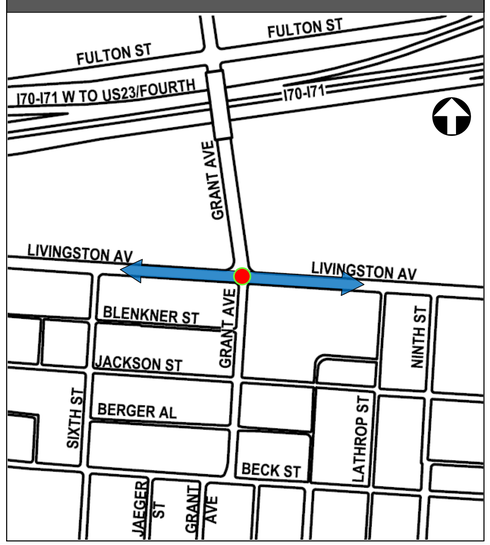
3 Cable Entries
24 Fusion Splices
11 Buffer Tubes Passed Through Unspliced

CLAMSHELL, 288 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 2006
REFER TO SHEET 307 FOR CONSTRUCTION PLAN DETAILS

CIP: 540007 - 100005
PID NUMBER: 14522

INT# 2006: GRANT AVE. AT LIVINGSTON AVE.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

741
911

730-745.vsd - 2006 layout - last saved 5/2/2017 3:56:21 PM - printed: 3/11/2016 12:13:53 PM

TRAFFIC SIGNAL CABINET ASSEMBLY

ETHERNET SWITCH – LAYER 2

1 2 3 4 5 6 7 8

TRAFFIC SIGNAL CONTROLLER
Ex. Econolite ASC/3-2100

Ethernet Module

CCTV FIELD BOX

VIDEO/PTZ IP DATA
CCTV/HEATER POWER
24 VDC
10/100 Mbs
ANALOG VIDEO

ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 2042: PARSONS AVE. AT STEWART AVE
SEE SHEET 797

PORT 6: INT# 2005: LIVINGSTON AVE. AT WAGER ST.
SEE SHEET 744

COMPOSITE CCTV CABLE

BLUE TUBE (NORTH)
ORANGE TUBE (WEST)
BLUE TUBE (EAST)
ORANGE TUBE (SOUTH)

PROPOSED CCTV

24 STRAND DROP

144 STRAND FOC

TO:
INT# 2078: CHILDREN'S CROSSROAD AT PARSONS AVE.
SEE SHEET 798

ODOT FIBERS
INSET DETAIL A
SEE SHEET 743

4 Cable Entries
204 Fusion Splices

BLUE TUBE
ORANGE TUBE
GREEN TUBE
BROWN TUBE
SLATE TUBE
WHITE TUBE
RED TUBE
BLACK TUBE
YELLOW TUBE
VIOLET TUBE
ROSE TUBE
AQUA TUBE

CLAMSHELL, 288 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE

TO:
INT# 2006: GRANT AVE. AT LIVINGSTON AVE.
SEE SHEET 741

144 STRAND FOC

24 STRAND DROP

144 STRAND DROP

4 Cable Entries
228 Fusion Splices

TO:
INT# 2041: PARSONS AVE. AT WHITTIER ST.
SEE SHEET 778

144 STRAND FOC

TO:
INT# 2005: LIVINGSTON AVE. AT WAGER ST.
SEE SHEET 744

144 STRAND FOC

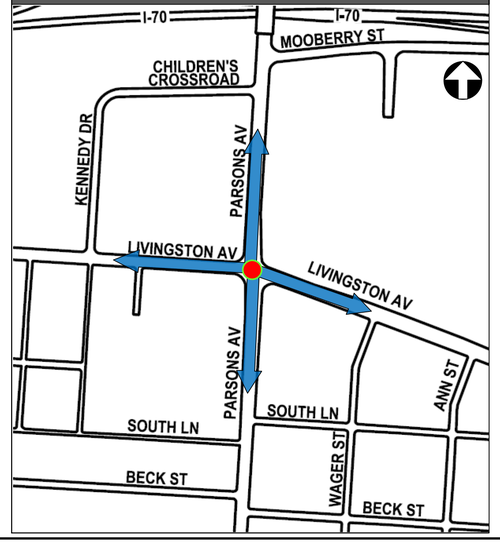
CLAMSHELL, 288 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE

PATCH PANEL ENCLOSURES: (2) - 24 TERMINATION

LEGEND

- 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 – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 2007

REFER TO SHEET 309 FOR CONSTRUCTION PLAN DETAILS

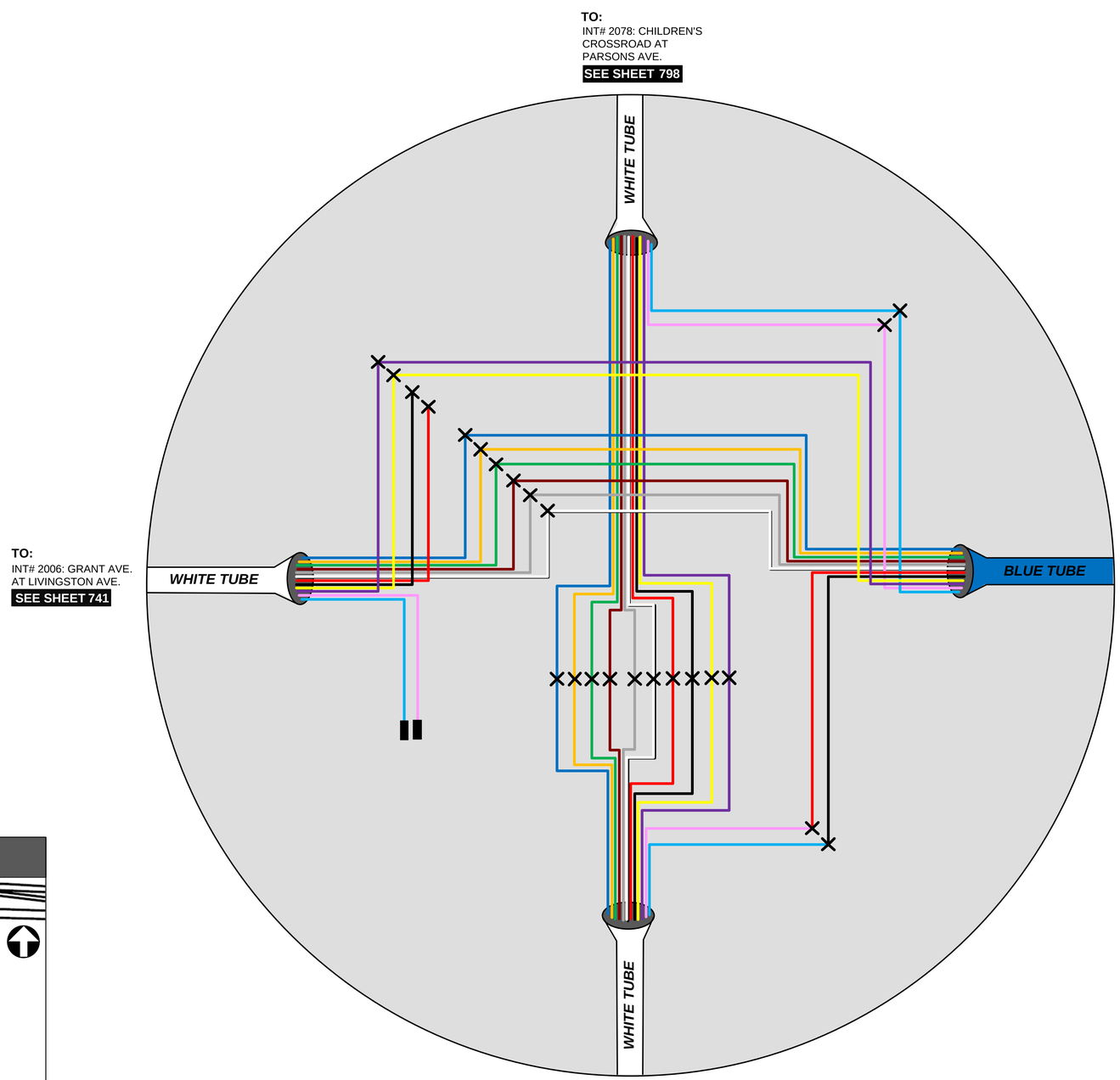
CIP: 540007 - 100005
PID NUMBER: 14522

INT# 2007: LIVINGSTON AVE. AT PARSONS AVE. COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

742
911

730-745.vsd - 2007 layout ~ last saved 5/2/2017 3:56:21 PM ~ printed: 3/11/2016 12:13:53 PM

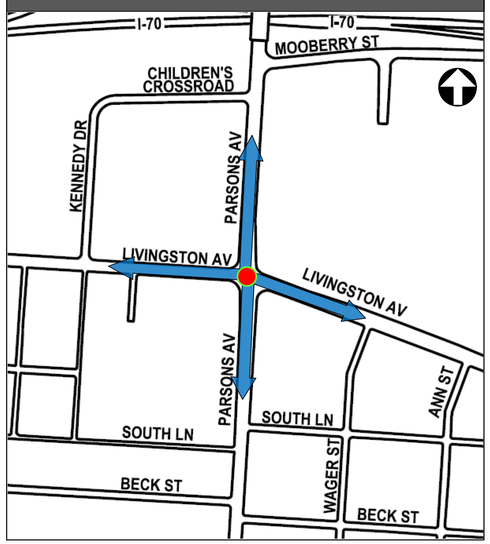


INSET DETAIL A
SEE SHEET 742

LEGEND

- 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 – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX (T/R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 2007
REFER TO SHEET 309 FOR CONSTRUCTION PLAN DETAILS

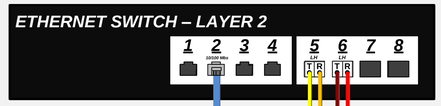
CIP: 540007 - 100005
PID NUMBER: 14522

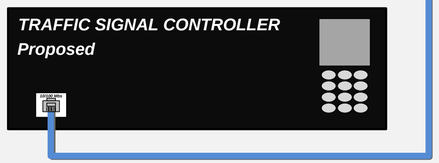
INT# 2007: LIVINGSTON AVE. AT PARSONS AVE.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

730-745.vsd - 2007-ODOT layout ~ last saved 5/2/2017 3:56:21 PM ~ printed 3/11/2016 12:13:53 PM

TRAFFIC SIGNAL CABINET ASSEMBLY



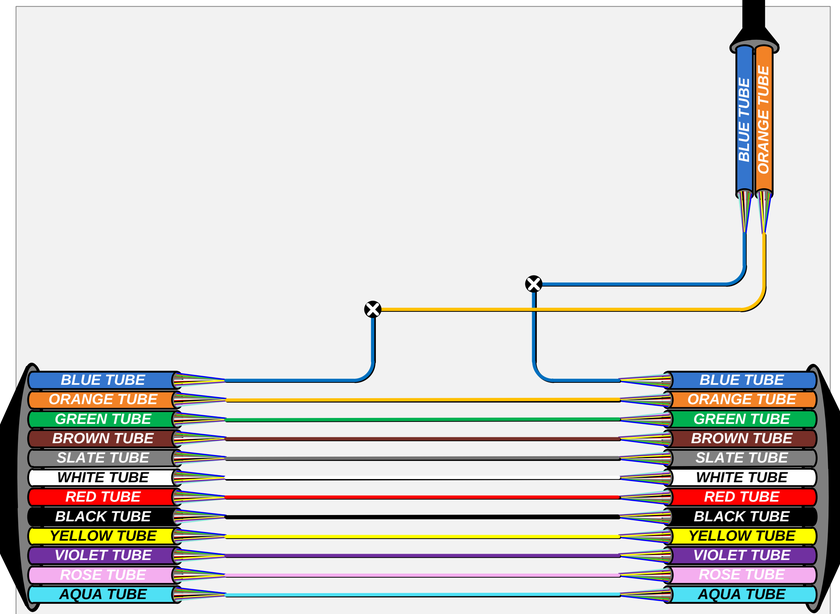


ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 2078: CHILDREN'S CROSSROAD AT PARSONS AVE.
SEE SHEET 798

PORT 6: INT# 2007: LIVINGSTON AVE. AT PARSONS AVE.
SEE SHEET 742





PATCH PANEL ENCLOSURE – 24 TERMINATION

144 STRAND FOC

TO:
INT# 2007: LIVINGSTON AVE. AT PARSONS AVE.
SEE SHEET 742

144 STRAND FOC

TO:
INT# 2081: EIGHTEENTH ST. AT LIVINGSTON AVE.
SEE SHEET 745

3 Cable Entries
24 Fusion Splices
11 Buffer Tubes Passed Through Unspliced

CLAMSHELL, 144 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE

LEGEND

- 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 – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX — GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 2005
REFER TO SHEET 310 FOR CONSTRUCTION PLAN DETAILS

CIP: 540007 - 100005
PID NUMBER: 14522

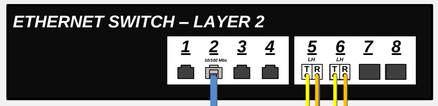
INT# 2005: LIVINGSTON AVE. AT WAGER ST.
COMMUNICATIONS DIAGRAM

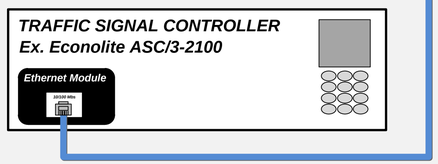
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

744
911

730-745.vsd - 2005 layout - last saved 5/2/2017 3:56:21 PM - printed: 3/11/2016 12:13:53 PM

TRAFFIC SIGNAL CABINET ASSEMBLY

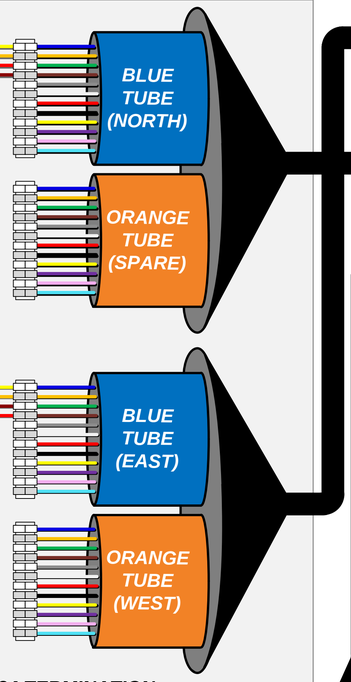




ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 2116: EIGHTEENTH ST. AT MOOBERRY ST.
SEE SHEET 746

PORT 6: INT# 2011: CHAMPION AVE. AT LIVINGSTON AVE.
SEE SHEET 748



PATCH PANEL ENCLOSURES: (2) - 24 TERMINATION

5 Cable Entries
96 Fusion Splices
8 Coiled Buffer Tubes
8 Buffer Tubes Passed Through Unspliced

DOME, 800 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

LEGEND

- 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 – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX — GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 2081
REFER TO SHEET 314 FOR CONSTRUCTION PLAN DETAILS

CIP: 540007 - 100005
PID NUMBER: 14522

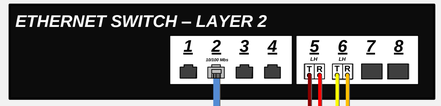
INT# 2081: EIGHTEENTH ST. AT LIVINGSTON AVE.
COMMUNICATIONS DIAGRAM

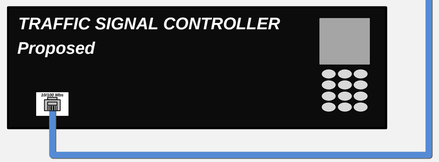
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

745
911

730-745.vsd - 2081 layout – last saved 5/2/2017 3:56:21 PM – printed: 3/11/2016 12:13:53 PM

TRAFFIC SIGNAL CABINET ASSEMBLY

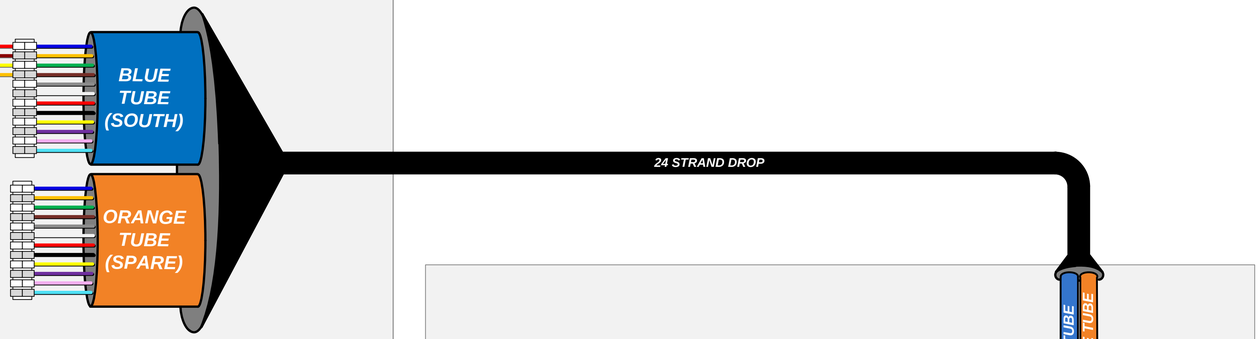




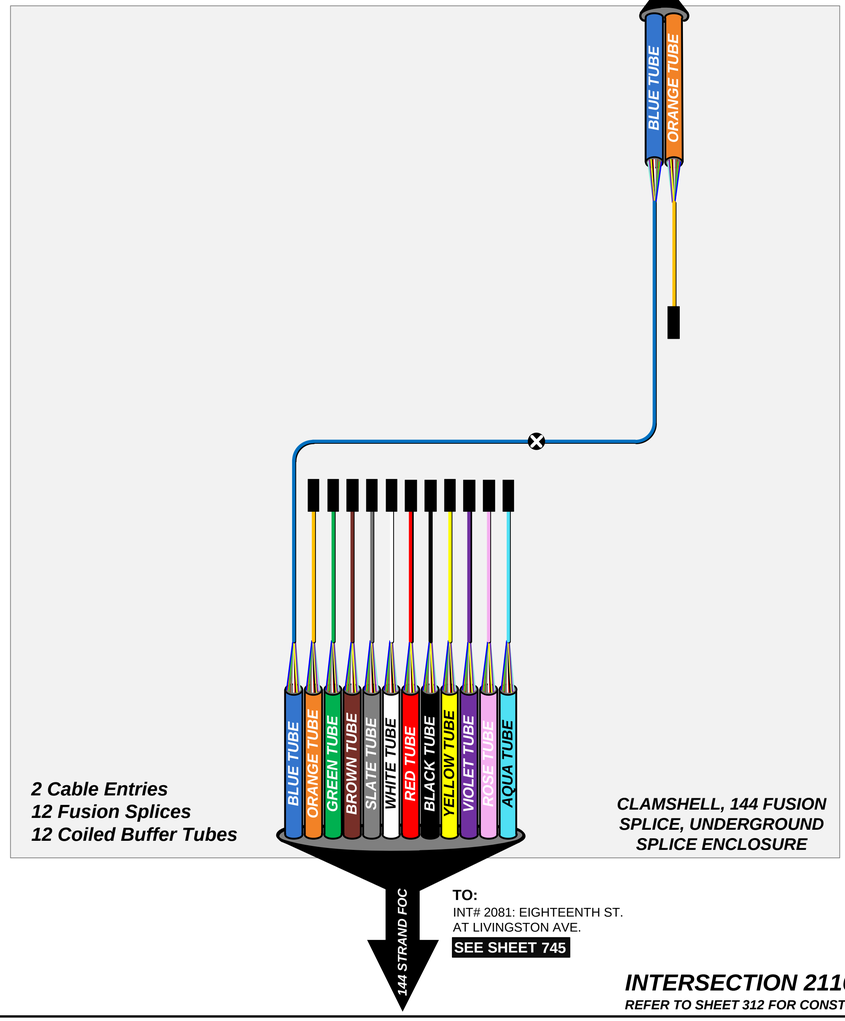
ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 2081: EIGHTEENTH ST. AT LIVINGSTON AVE.
SEE SHEET 745

PORT 6: INT# 2010: LIVINGSTON AVE. AT OHIO AVE.
SEE SHEET 747



PATCH PANEL ENCLOSURE – 24 TERMINATION



2 Cable Entries
12 Fusion Splices
12 Coiled Buffer Tubes

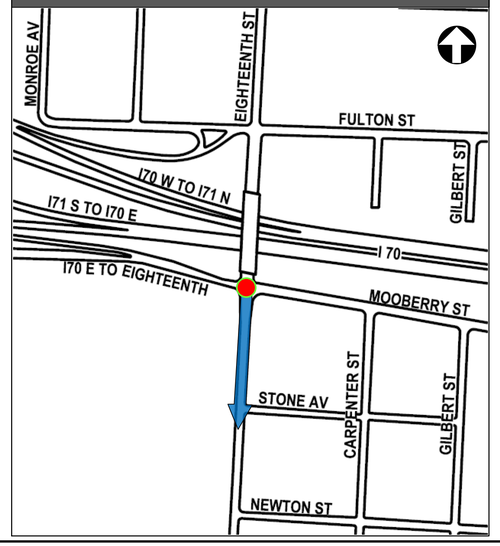
CLAMSHELL, 144 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE

TO:
INT# 2081: EIGHTEENTH ST.
AT LIVINGSTON AVE.
SEE SHEET 745

LEGEND

- 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 – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 2116

REFER TO SHEET 312 FOR CONSTRUCTION PLAN DETAILS

CIP: 540007 - 100005
PID NUMBER: 14522

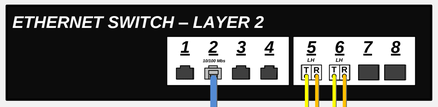
INT# 2116: EIGHTEENTH ST. AT MOOBERRY ST.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

746
911

746-759.vsd - 2116 layout - last saved 5/2/2017 3:57:52 PM - printed: 3/11/2016 12:15:55 PM

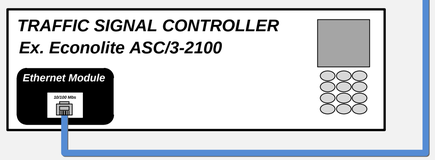
TRAFFIC SIGNAL CABINET ASSEMBLY

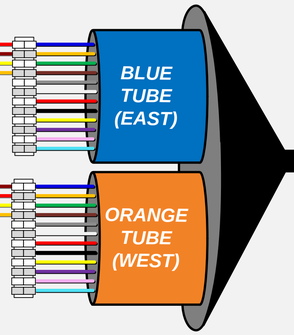


ETHERNET SWITCH PORT DESTINATION

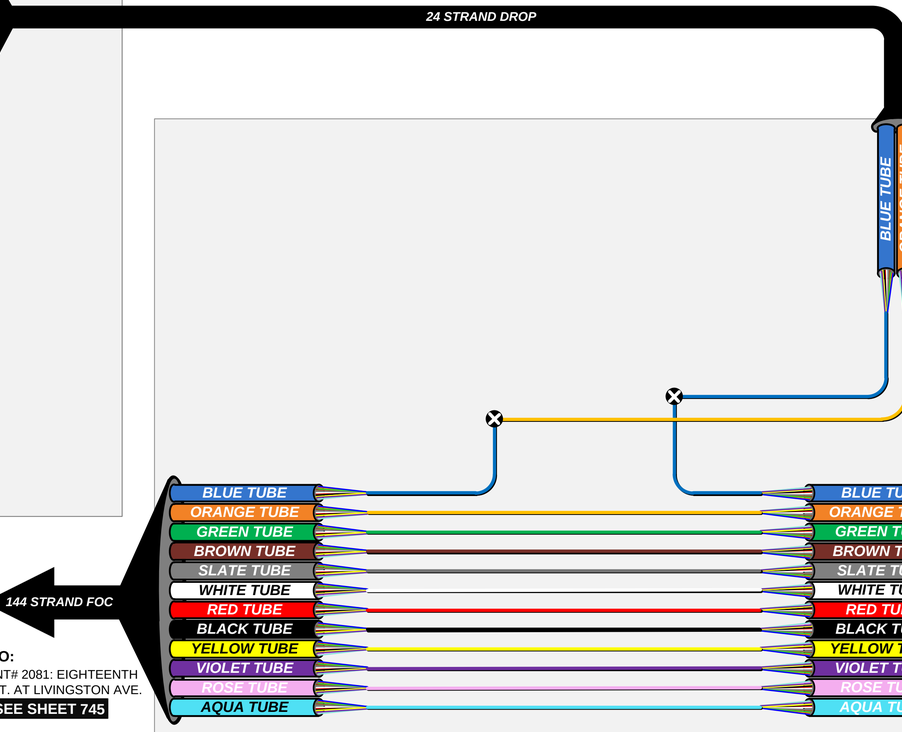
PORT 5: INT# 2012: LIVINGSTON AVE. AT LOCKBOURNE RD.
SEE SHEET 749

PORT 6: INT# 2116: EIGHTEENTH ST. AT MOOBERRY ST.
SEE SHEET 746





PATCH PANEL ENCLOSURE – 24 TERMINATION



TO:
INT# 2081: EIGHTEENTH ST. AT LIVINGSTON AVE.
SEE SHEET 745

TO:
INT# 2011: CHAMPION AVE. AT LIVINGSTON AVE.
SEE SHEET 748

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
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 2010
REFER TO SHEET 315 FOR CONSTRUCTION PLAN DETAILS

CIP: 540007 - 100005
PID NUMBER: 14522

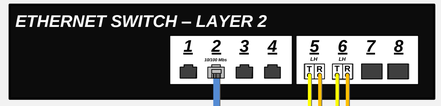
INT# 2010: LIVINGSTON AVE. AT OHIO AVE.
COMMUNICATIONS DIAGRAM

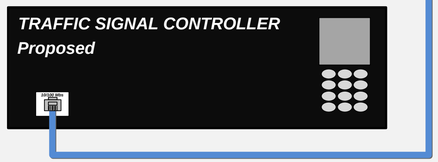
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

747
911

746-759.vsd - 2010 layout - last saved 5/2/2017 3:57:52 PM - printed: 3/11/2016 12:15:55 PM

TRAFFIC SIGNAL CABINET ASSEMBLY

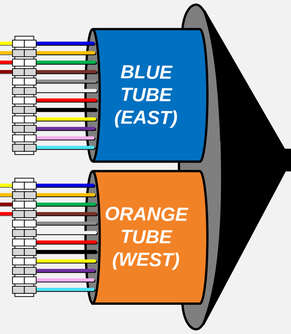


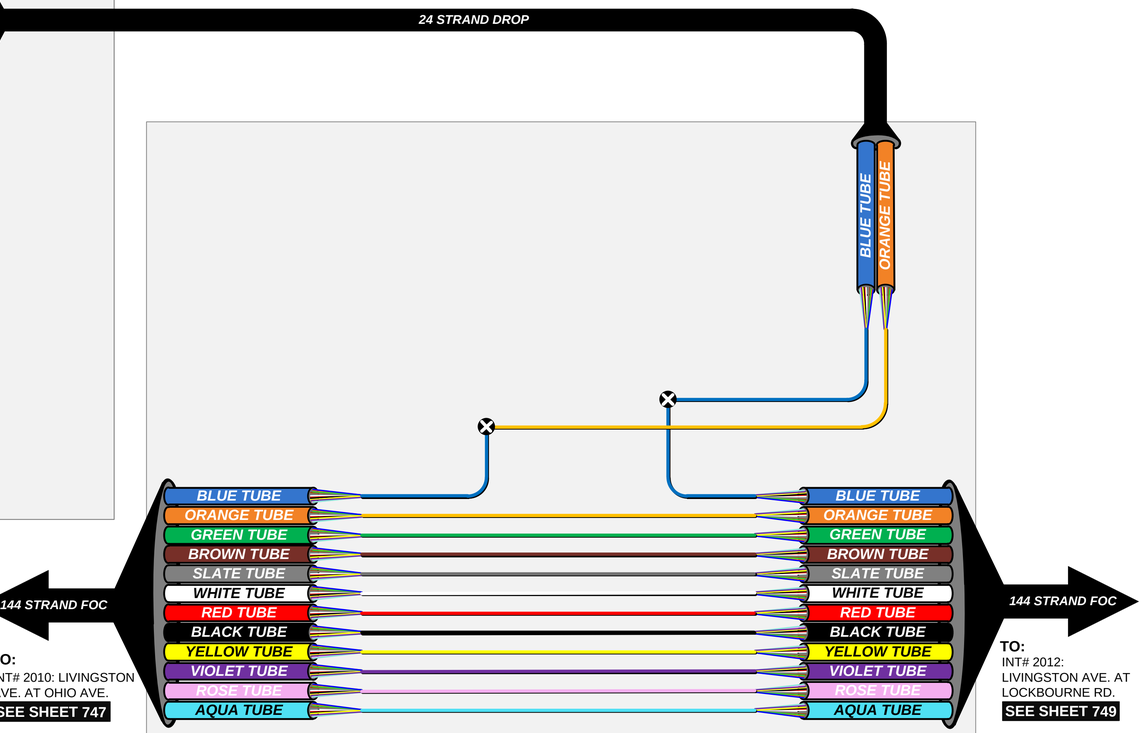


ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 2013: LIVINGSTON AVE. AT MILLER AVE.
SEE SHEET 750

PORT 6: INT# 2081: EIGHTEENTH ST. AT LIVINGSTON AVE.
SEE SHEET 745





TO:
INT# 2010: LIVINGSTON AVE. AT OHIO AVE.
SEE SHEET 747

TO:
INT# 2012: LIVINGSTON AVE. AT LOCKBOURNE RD.
SEE SHEET 749

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
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 2011
REFER TO SHEET 317 FOR CONSTRUCTION PLAN DETAILS

CIP: 540007 - 100005
PID NUMBER: 14522

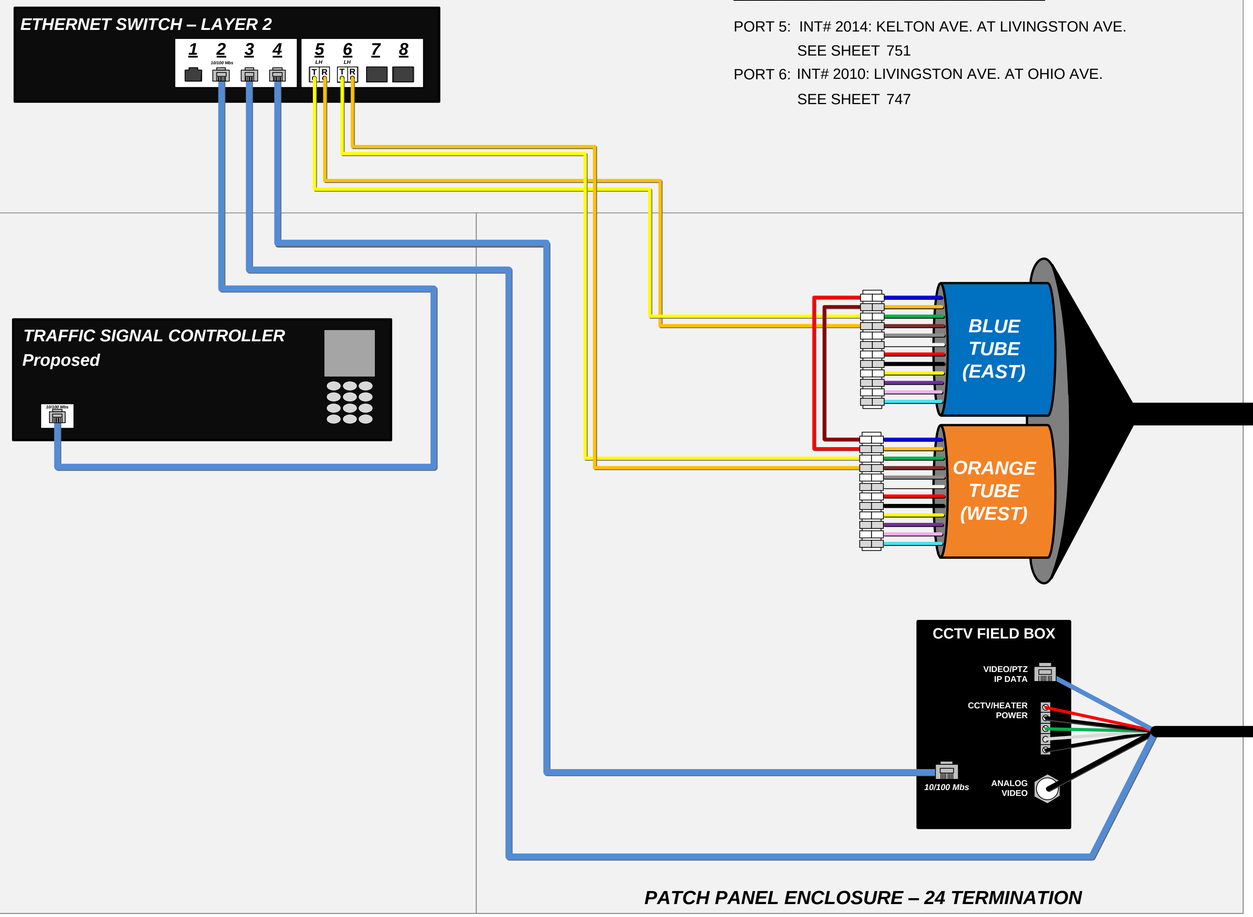
INT# 2011: CHAMPION AVE. AT LIVINGSTON AVE.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

748
911

746-759.vsd - 2011 layout ~ last saved 5/2/2017 3:57:52 PM ~ printed: 3/11/2016 12:15:55 PM

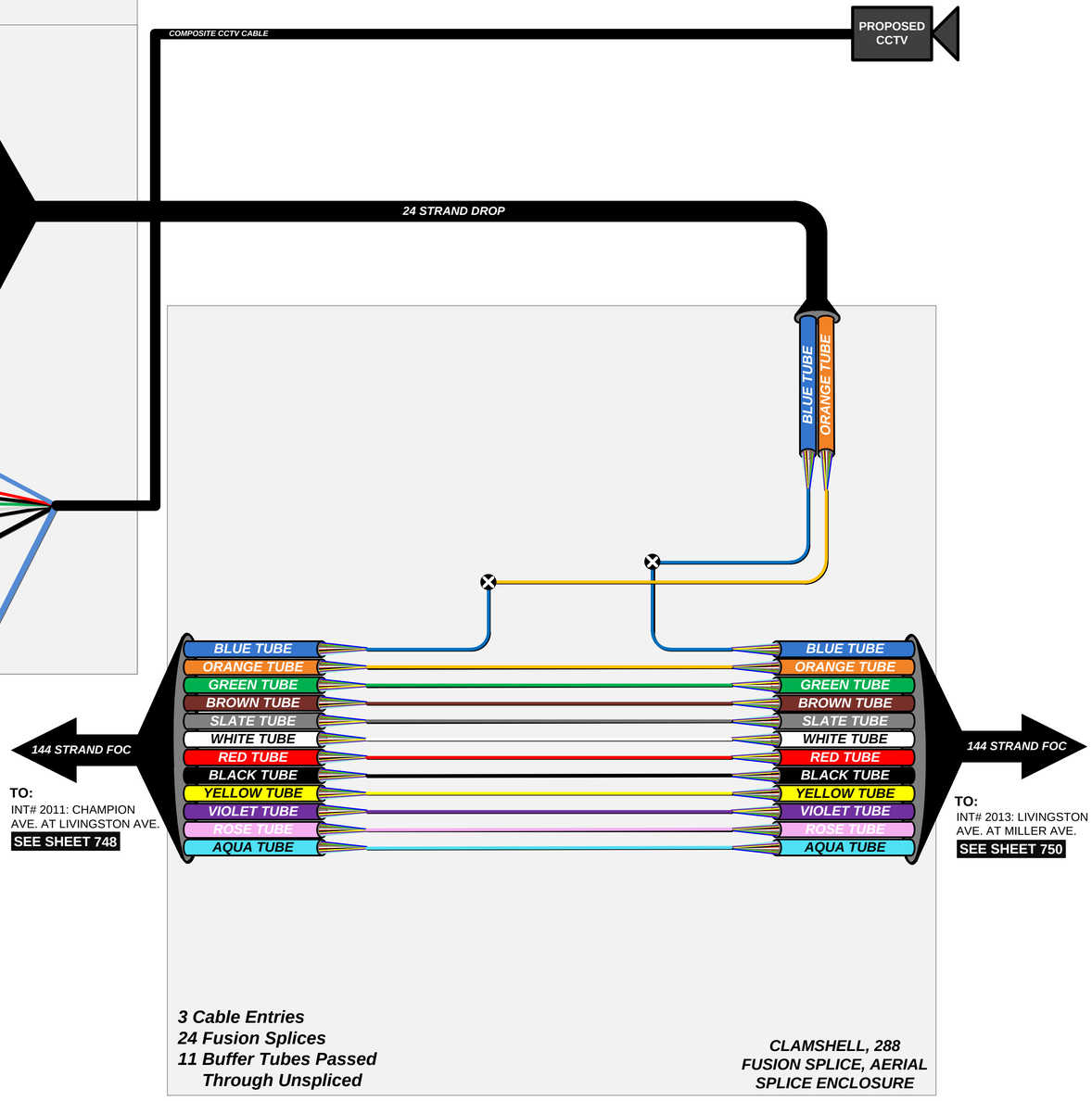
TRAFFIC SIGNAL CABINET ASSEMBLY



ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 2014: KELTON AVE. AT LIVINGSTON AVE.
SEE SHEET 751

PORT 6: INT# 2010: LIVINGSTON AVE. AT OHIO AVE.
SEE SHEET 747



LEGEND

- 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 – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 2012

REFER TO SHEET 319 FOR CONSTRUCTION PLAN DETAILS

CIP: 540007 - 100005
PID NUMBER: 14522

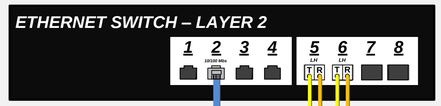
INT# 2012: LIVINGSTON AVE. AT LOCKBOURNE RD.
COMMUNICATIONS DIAGRAM

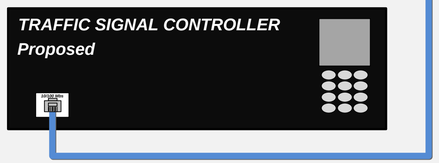
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

749
911

746-759.vsd - 2012 layout ~ last saved 5/2/2017 3:57:52 PM ~ printed: 3/11/2016 12:15:55 PM

TRAFFIC SIGNAL CABINET ASSEMBLY

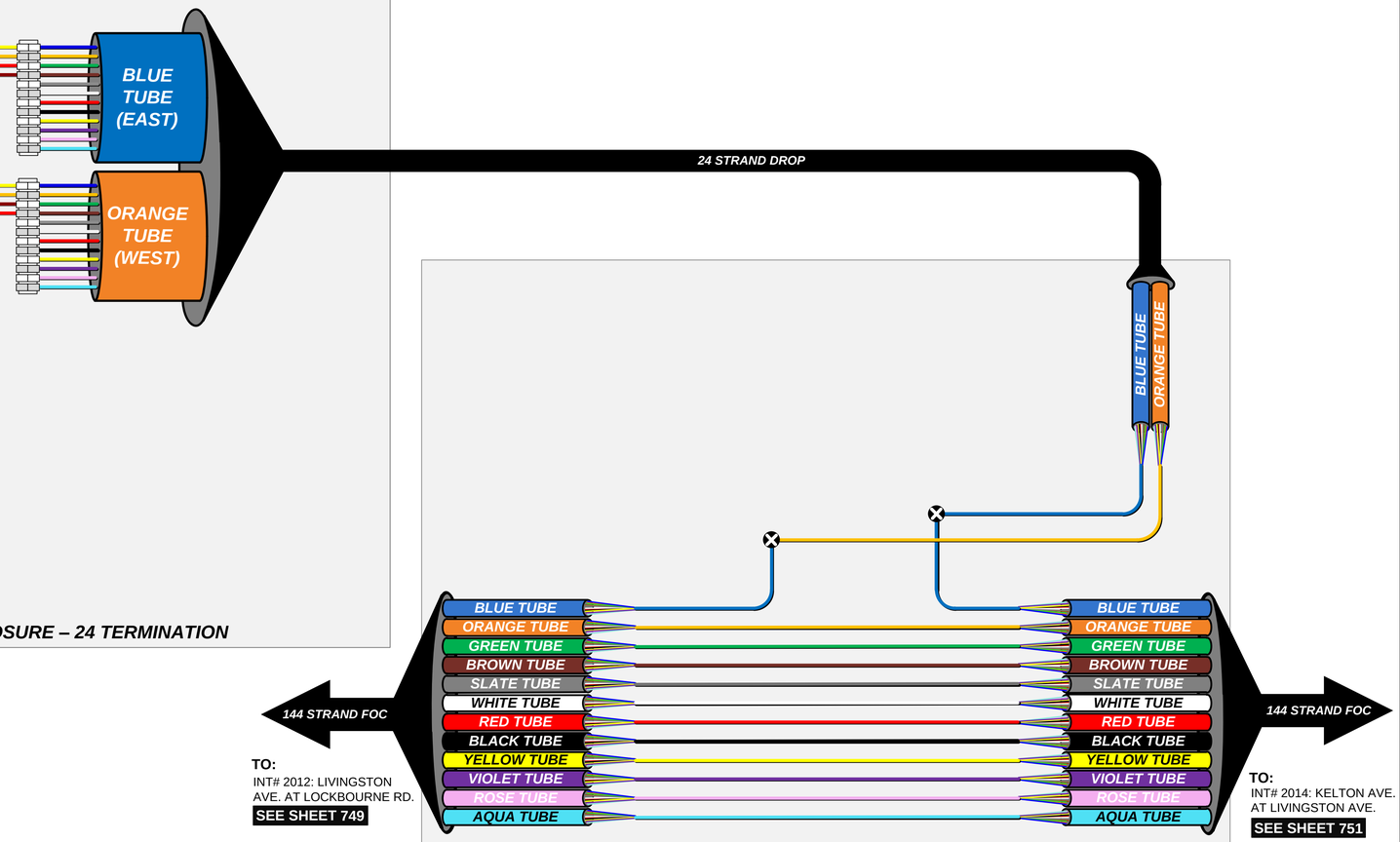




ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 2015: FAIRWOOD AVE. AT LIVINGSTON AVE.
SEE SHEET 752

PORT 6: INT# 2011: CHAMPION AVE. AT LIVINGSTON AVE.
SEE SHEET 748



PATCH PANEL ENCLOSURE – 24 TERMINATION

TO:
INT# 2012: LIVINGSTON AVE. AT LOCKBOURNE RD.
SEE SHEET 749

TO:
INT# 2014: KELTON AVE. AT LIVINGSTON AVE.
SEE SHEET 751

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
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 2013
REFER TO SHEET 319 FOR CONSTRUCTION PLAN DETAILS

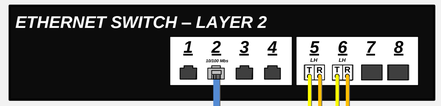
CIP: 540007 - 100005
PID NUMBER: 14522

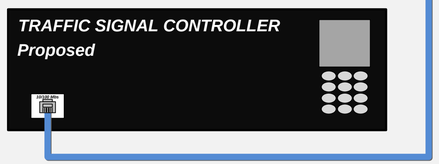
INT# 2013: LIVINGSTON AVE. AT MILLER AVE.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

746-759.vsd - 2013 layout – last saved 5/2/2017 3:57:52 PM – printed: 3/11/2016 12:15:55 PM

TRAFFIC SIGNAL CABINET ASSEMBLY

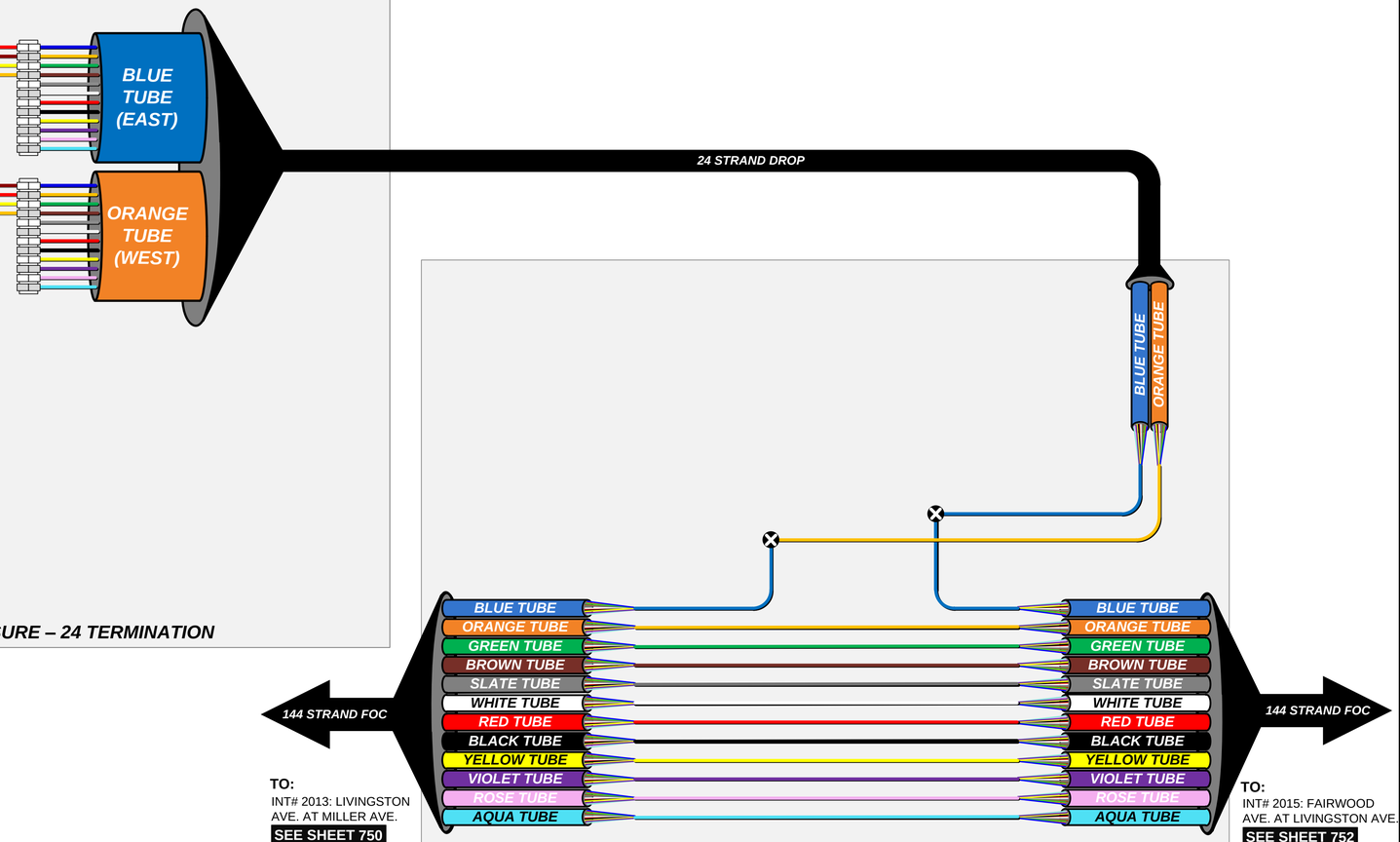




ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 2016: LIVINGSTON AVE. AT NELSON RD.
SEE SHEET 753

PORT 6: INT# 2012: LIVINGSTON AVE. AT LOCKBOURNE RD.
SEE SHEET 749



PATCH PANEL ENCLOSURE – 24 TERMINATION

TO:
INT# 2013: LIVINGSTON AVE. AT MILLER AVE.
SEE SHEET 750

TO:
INT# 2015: FAIRWOOD AVE. AT LIVINGSTON 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
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 2014
REFER TO SHEET 320 FOR CONSTRUCTION PLAN DETAILS

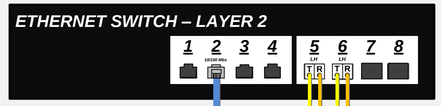
CIP: 540007 - 100005
PID NUMBER: 14522

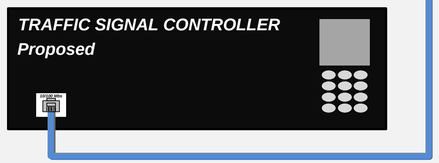
INT# 2014: KELTON AVE. AT LIVINGSTON AVE.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

746-759.vsd - 2014 layout - last saved 5/2/2017 3:57:52 PM - printed: 3/11/2016 12:15:55 PM

TRAFFIC SIGNAL CABINET ASSEMBLY

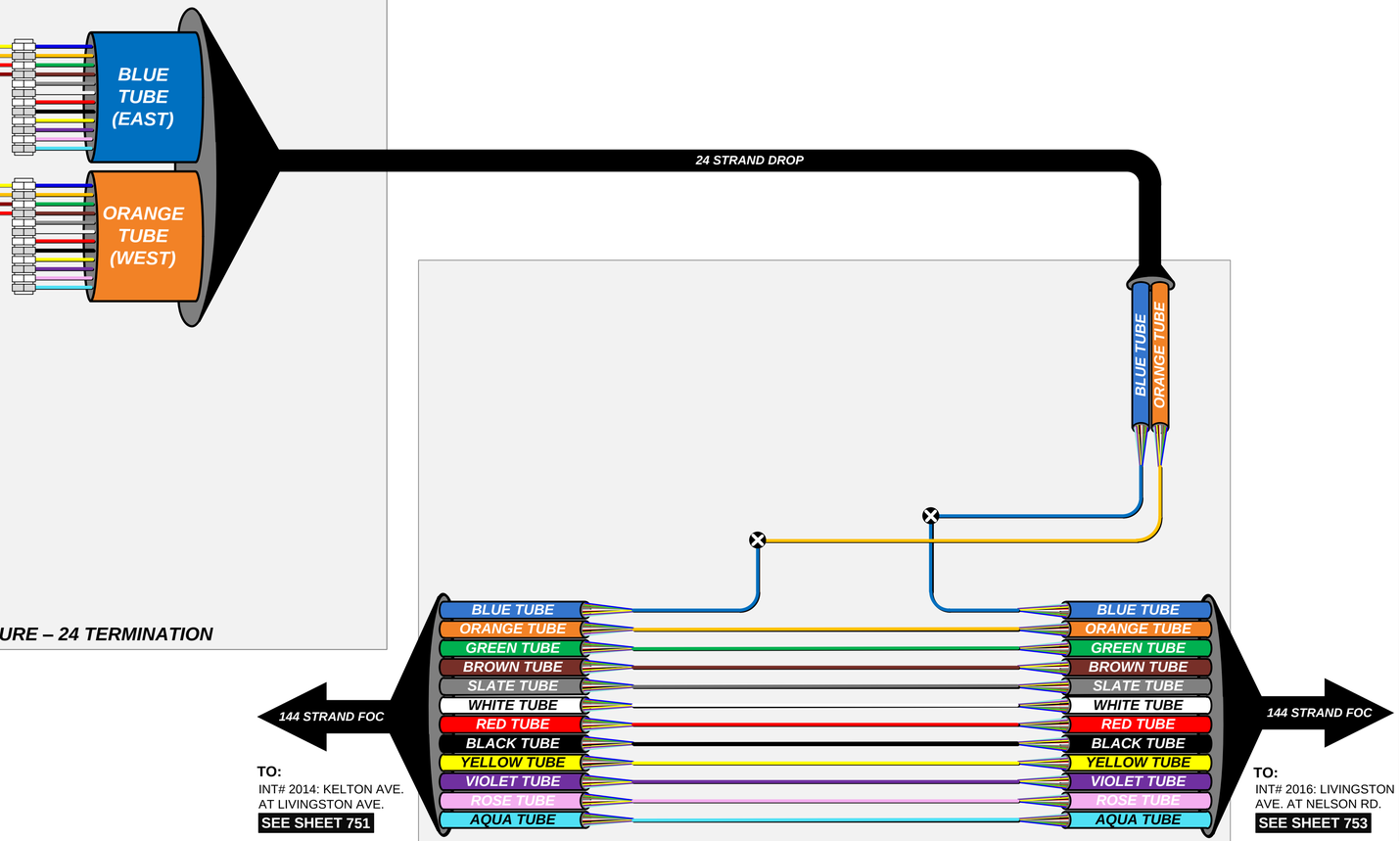




ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 2000: ALUM CREEK DR. AT LIVINGSTON AVE.
SEE SHEET 754

PORT 6: INT# 2013: LIVINGSTON AVE. AT MILLER AVE.
SEE SHEET 750



TO:
INT# 2014: KELTON AVE. AT LIVINGSTON AVE.
SEE SHEET 751

TO:
INT# 2016: LIVINGSTON AVE. AT NELSON RD.
SEE SHEET 753

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
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 2015
REFER TO SHEET 321 FOR CONSTRUCTION PLAN DETAILS

CIP: 540007 - 100005
PID NUMBER: 14522

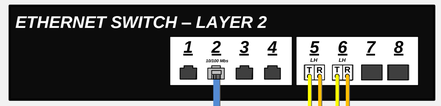
INT# 2015: FAIRWOOD AVE. AT LIVINGSTON AVE.
COMMUNICATIONS DIAGRAM

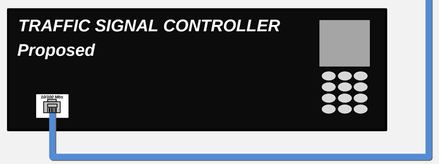
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

752
911

746-759.vsd - 2015 layout - last saved 5/2/2017 3:57:52 PM - printed: 3/11/2016 12:15:55 PM

TRAFFIC SIGNAL CABINET ASSEMBLY

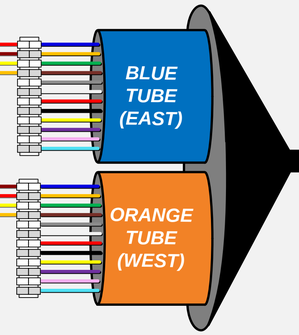


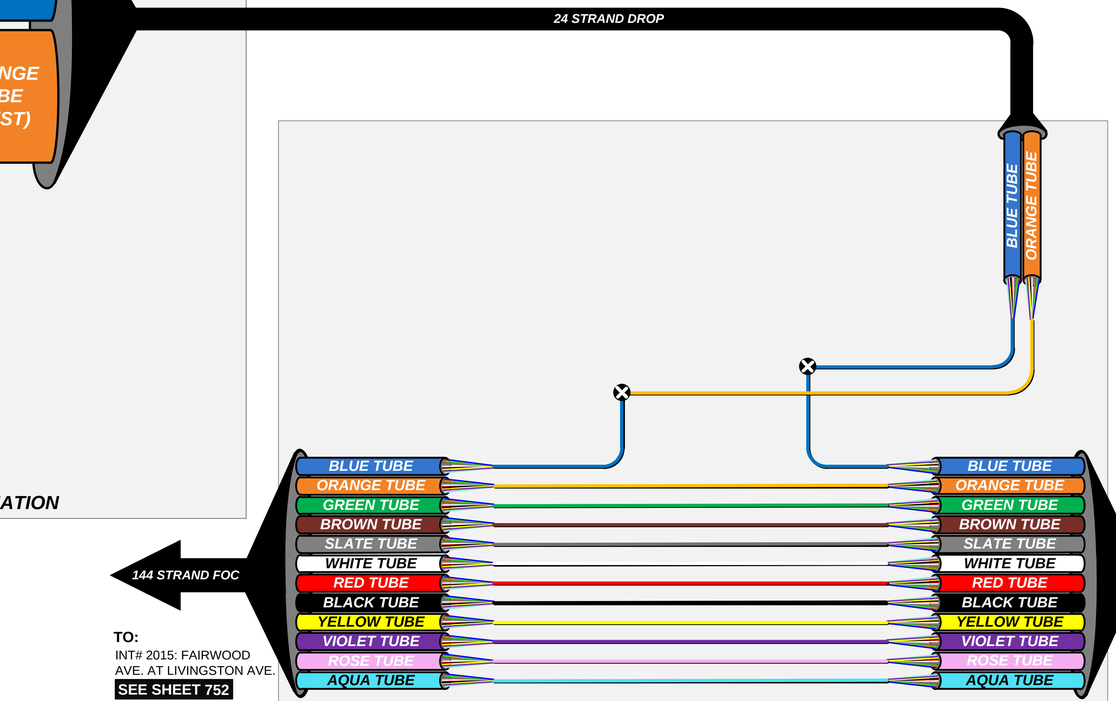


ETHERNET SWITCH PORT DESTINATION

PORT 5: PROPOSED COMMUNICATION NODE# 070103.1: IR-70 AT LIVINGSTON AVE.
SEE SHEET 870

PORT 6: INT# 2014: KELTON AVE. AT LIVINGSTON AVE.
SEE SHEET 751





TO:
INT# 2015: FAIRWOOD AVE. AT LIVINGSTON AVE.
SEE SHEET 752

TO:
INT# 2000: ALUM CREEK DR. AT LIVINGSTON AVE.
SEE SHEET 754

3 Cable Entries
24 Fusion Splices
11 Buffer Tubes Passed Through Unspliced

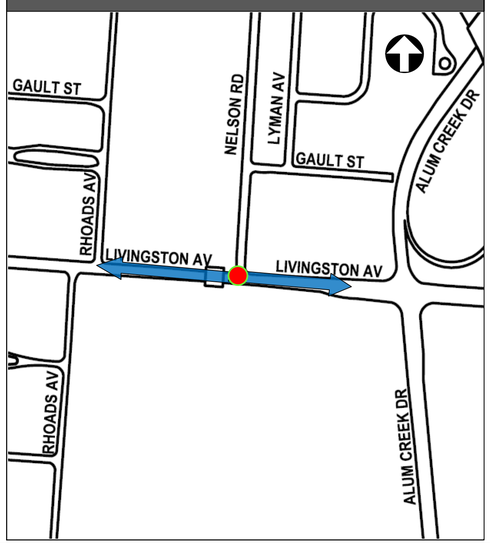
CLAMSHELL, 288 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

PATCH PANEL ENCLOSURE – 24 TERMINATION

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- *LH/ZX* GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 2016
REFER TO SHEET 322 FOR CONSTRUCTION PLAN DETAILS

CIP: 540007 - 100005
PID NUMBER: 14522

INT# 2016: LIVINGSTON AVE. AT NELSON RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

753
911

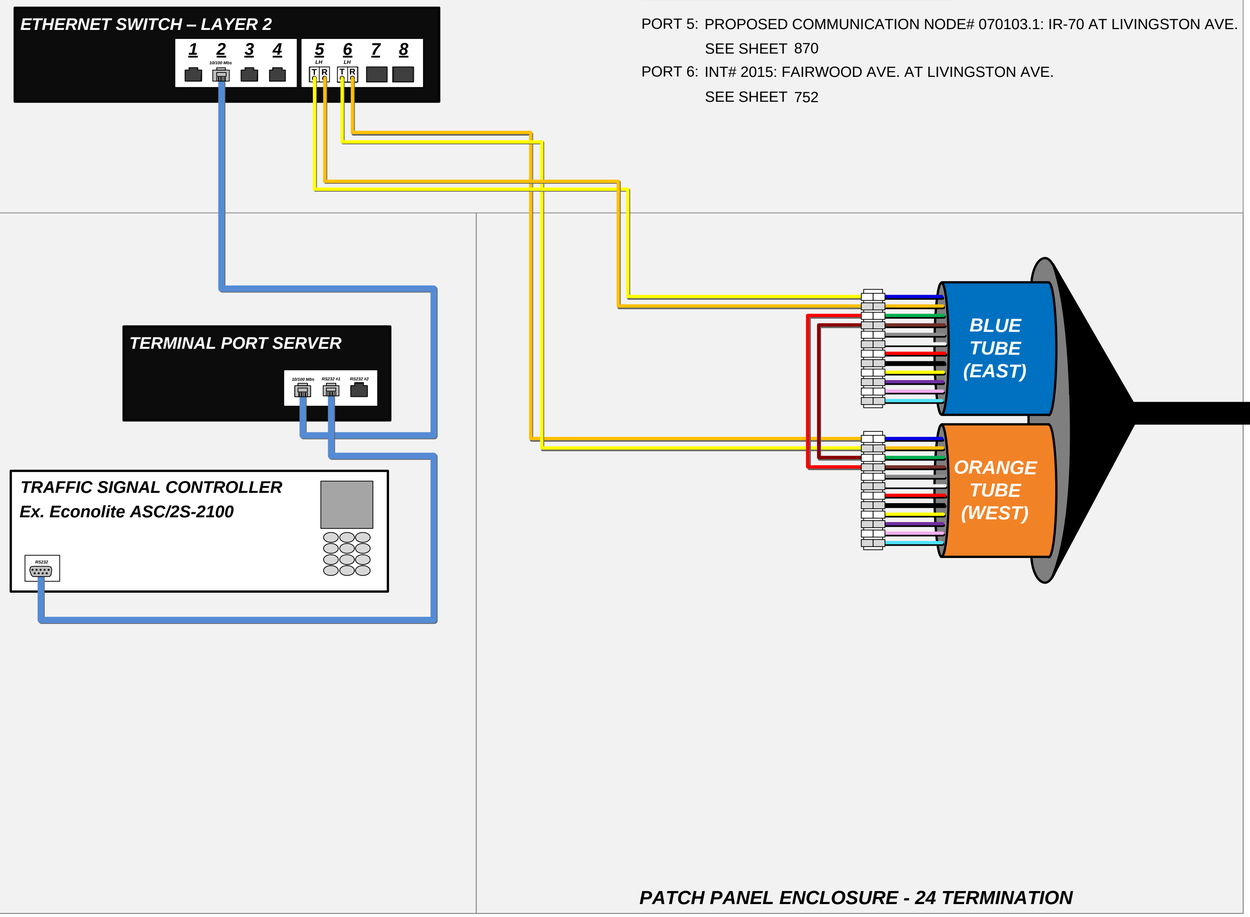
746-759.vsd - 2016 layout ~ last saved 5/2/2017 3:57:52 PM ~ printed: 3/11/2016 12:15:55 PM

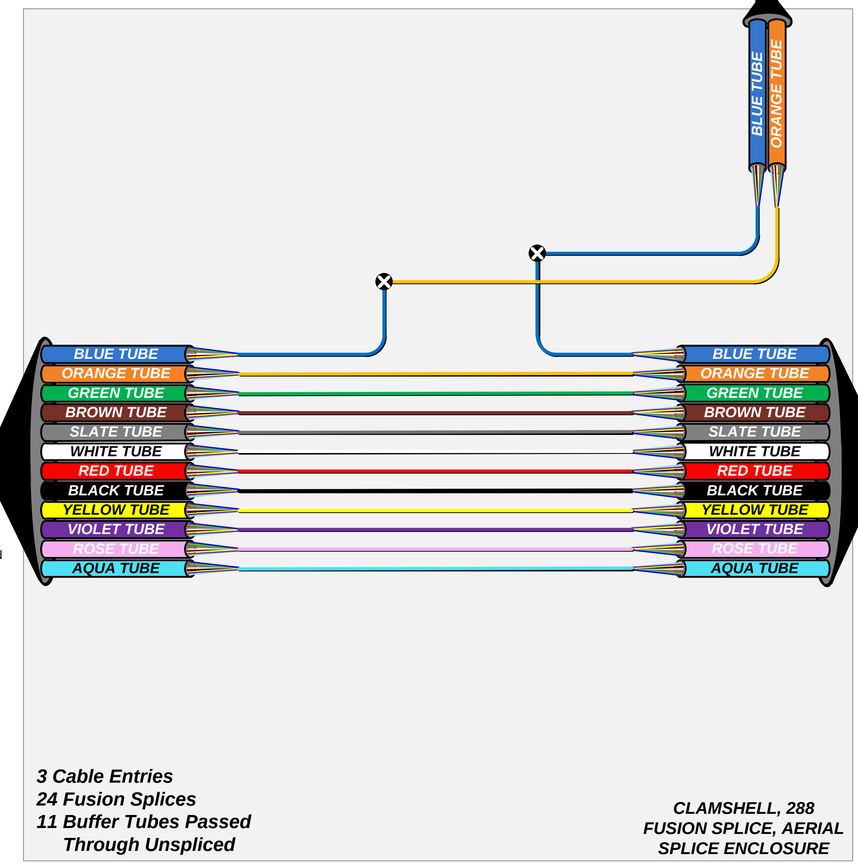
TRAFFIC SIGNAL CABINET ASSEMBLY

ETHERNET SWITCH PORT DESTINATION

PORT 5: PROPOSED COMMUNICATION NODE# 070103.1: IR-70 AT LIVINGSTON AVE.
SEE SHEET 870

PORT 6: INT# 2015: FAIRWOOD AVE. AT LIVINGSTON AVE.
SEE SHEET 752





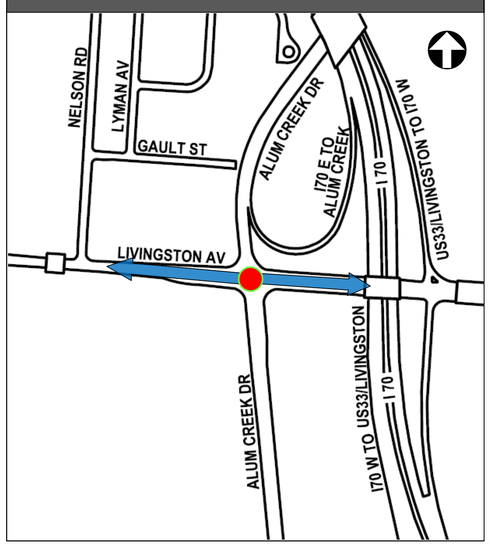
TO:
INT# 2016: LIVINGSTON AVE. AT NELSON RD.
SEE SHEET 753

TO:
PROPOSED COMMUNICATION NODE# 070103.1: IR-70 AT LIVINGSTON AVE.
SEE SHEET 872

LEGEND

- 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 – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX — GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 2000

REFER TO SHEET 324 FOR CONSTRUCTION PLAN DETAILS

CIP: 540007 - 100005
PID NUMBER: 14522

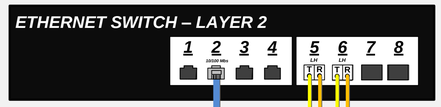
INT# 2000: ALUM CREEK DR. AT LIVINGSTON AVE.
COMMUNICATIONS DIAGRAM

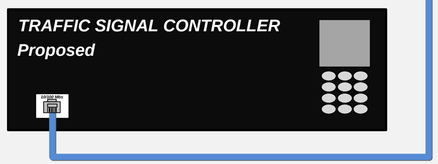
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

754
911

746-759.vsd - 2000 layout ~ last saved 5/2/2017 3:57:52 PM ~ printed: 3/11/2016 12:15:55 PM

TRAFFIC SIGNAL CABINET ASSEMBLY

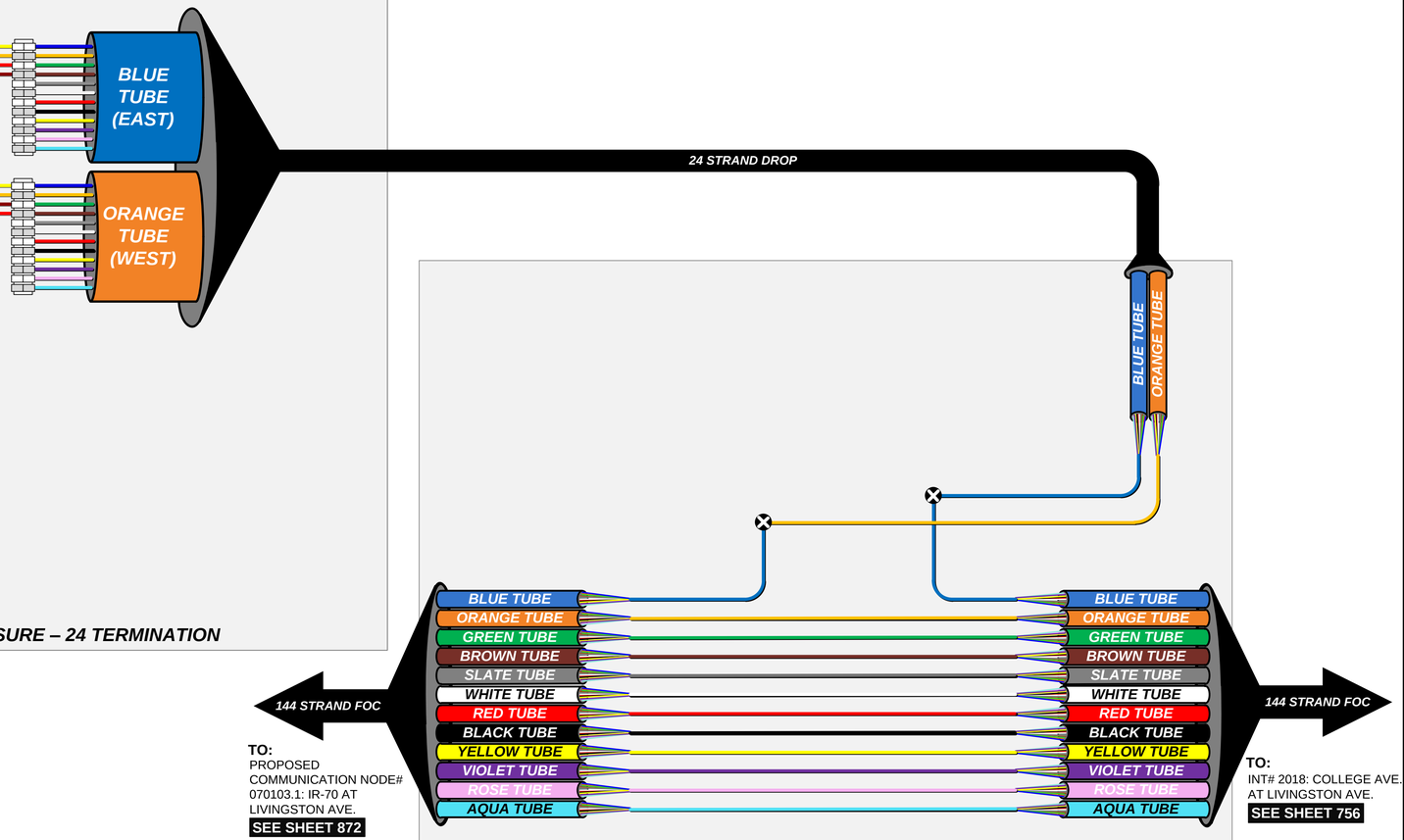




ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 2019: LIVINGSTON AVE. AT ROOSEVELT AVE.
SEE SHEET 757

PORT 6: PROPOSED COMMUNICATION NODE# 070103.1: IR-70 AT LIVINGSTON AVE.
SEE SHEET 870



TO:
PROPOSED COMMUNICATION NODE# 070103.1: IR-70 AT LIVINGSTON AVE.
SEE SHEET 872

TO:
INT# 2018: COLLEGE AVE. AT LIVINGSTON AVE.
SEE SHEET 756

3 Cable Entries
24 Fusion Splices
11 Buffer Tubes Passed Through Unspliced

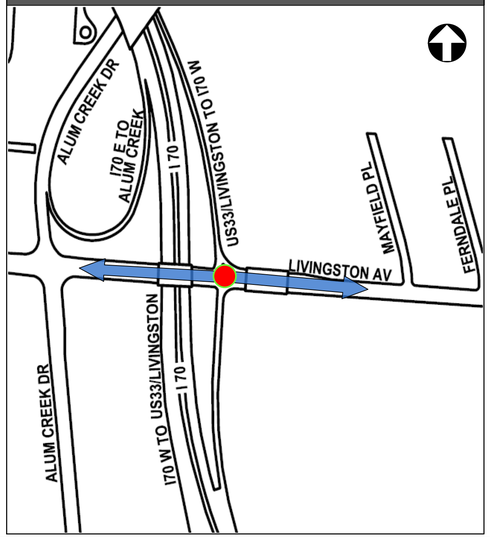
CLAMSHELL, 288 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

PATCH PANEL ENCLOSURE – 24 TERMINATION

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX T R — GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 2017
REFER TO SHEET 325 FOR CONSTRUCTION PLAN DETAILS

CIP: 540007 - 100005
PID NUMBER: 14522

INT# 2017: I-70 WB RAMPS AT LIVINGSTON AVE.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

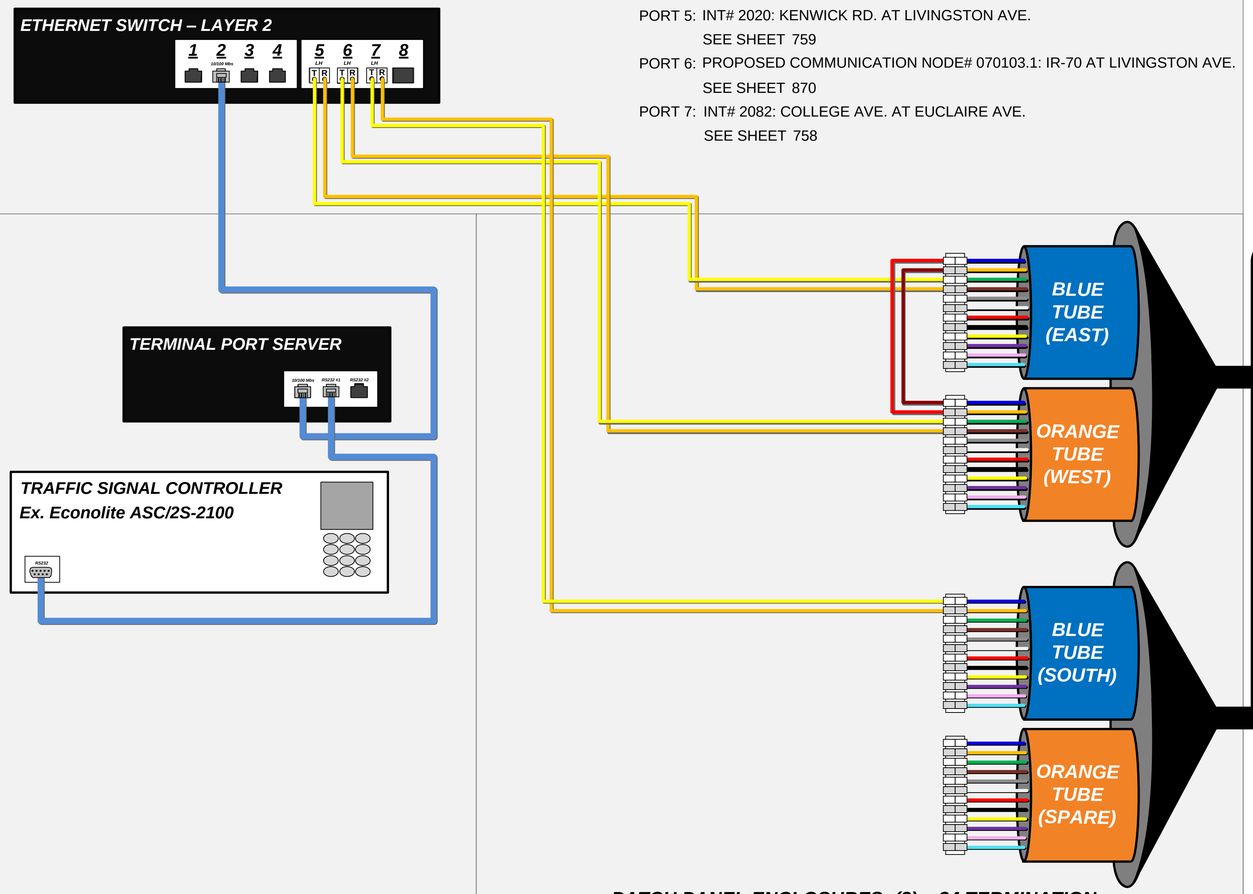
755
911

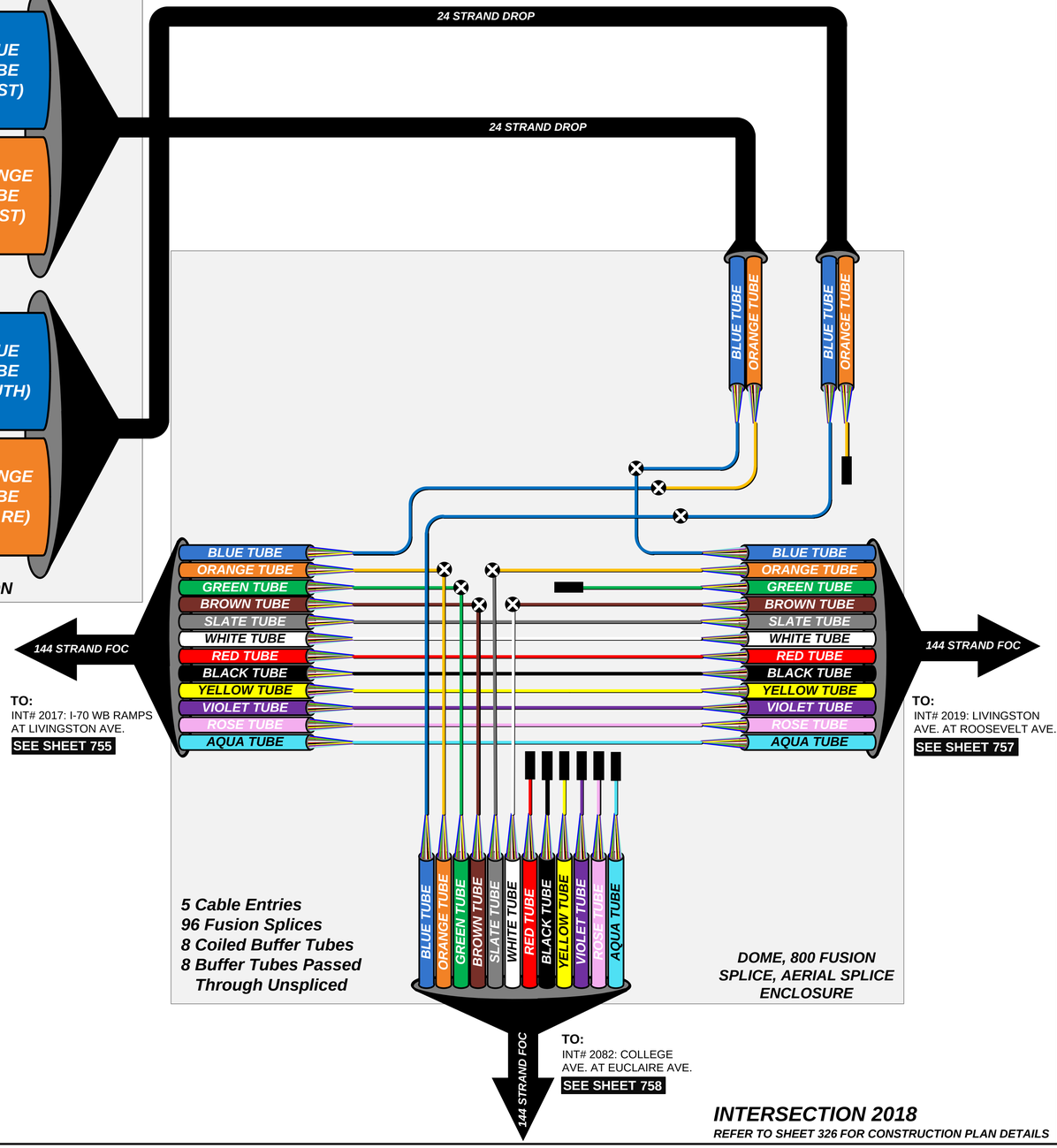
746-759.vsd - 2017 layout ~ last saved 5/2/2017 3:57:52 PM ~ printed: 3/11/2016 12:15:55 PM

TRAFFIC SIGNAL CABINET ASSEMBLY

ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 2020: KENWICK RD. AT LIVINGSTON AVE.
SEE SHEET 759
PORT 6: PROPOSED COMMUNICATION NODE# 070103.1: IR-70 AT LIVINGSTON AVE.
SEE SHEET 870
PORT 7: INT# 2082: COLLEGE AVE. AT EUCLAIRE AVE.
SEE SHEET 758

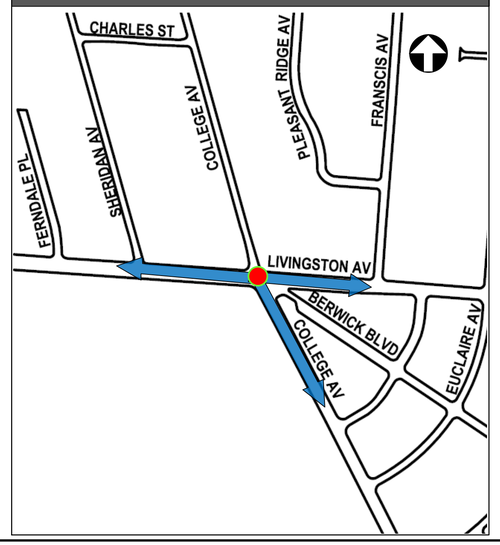




LEGEND

- 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 – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 2018

REFER TO SHEET 326 FOR CONSTRUCTION PLAN DETAILS

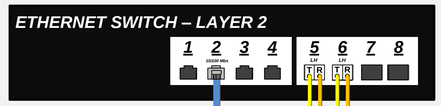
CIP: 540007 - 100005
PID NUMBER: 14522

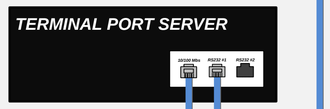
INT# 2018: COLLEGE AVE. AT LIVINGSTON AVE.
COMMUNICATIONS DIAGRAM

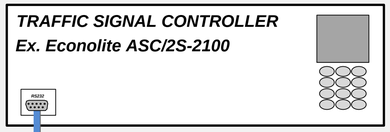
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

746-759.vsd - 2018 layout - last saved 5/2/2017 3:57:52 PM - printed: 3/11/2016 12:15:55 PM

TRAFFIC SIGNAL CABINET ASSEMBLY



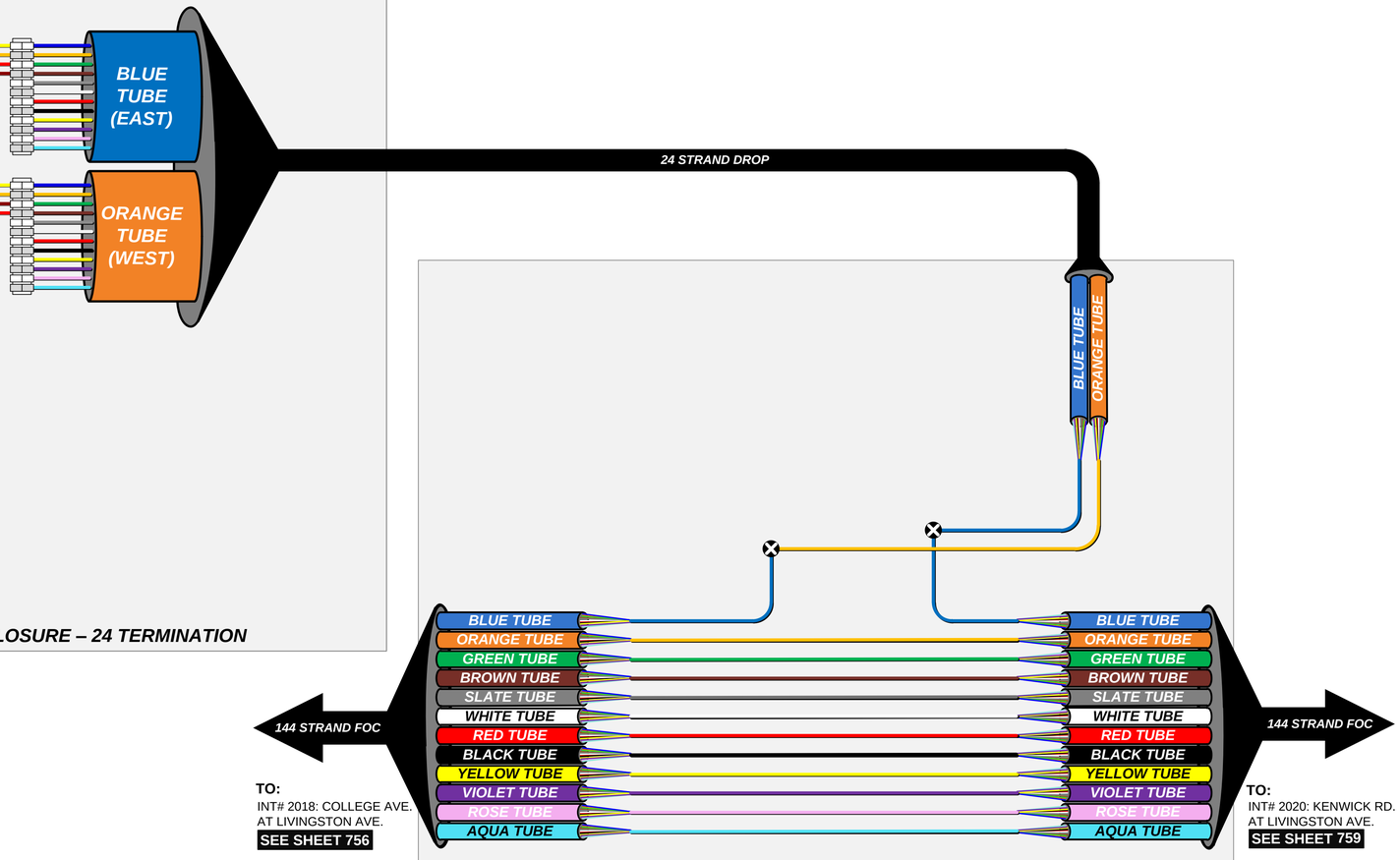




ETHERNET SWITCH PORT DESTINATION

PORT 5: PROPOSED COMMUNICATION NODE# 070105.5: IR-70 AT JAMES RD
SEE SHEET 874

PORT 6: INT# 2017: I-70 WB RAMPS AT LIVINGSTON AVE.
SEE SHEET 755



PATCH PANEL ENCLOSURE – 24 TERMINATION

TO:
INT# 2018: COLLEGE AVE.
AT LIVINGSTON AVE.
SEE SHEET 756

TO:
INT# 2020: KENWICK RD.
AT LIVINGSTON AVE.
SEE SHEET 759

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
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 2019
REFER TO SHEET 330 FOR CONSTRUCTION PLAN DETAILS

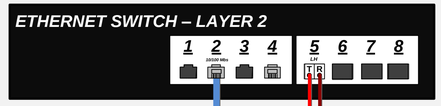
CIP: 540007 - 100005
PID NUMBER: 14522

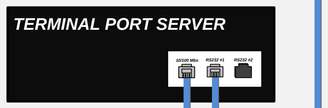
INT# 2019: LIVINGSTON AVE. AT ROOSEVELT AVE.
COMMUNICATIONS DIAGRAM

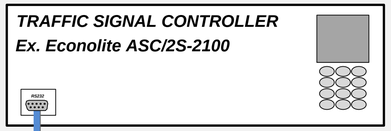
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

746-759.vsd - 2019 layout ~ last saved 5/2/2017 3:57:52 PM ~ printed: 3/11/2016 12:15:55 PM

TRAFFIC SIGNAL CABINET ASSEMBLY

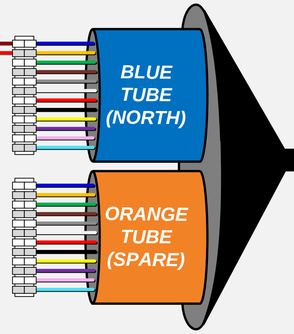




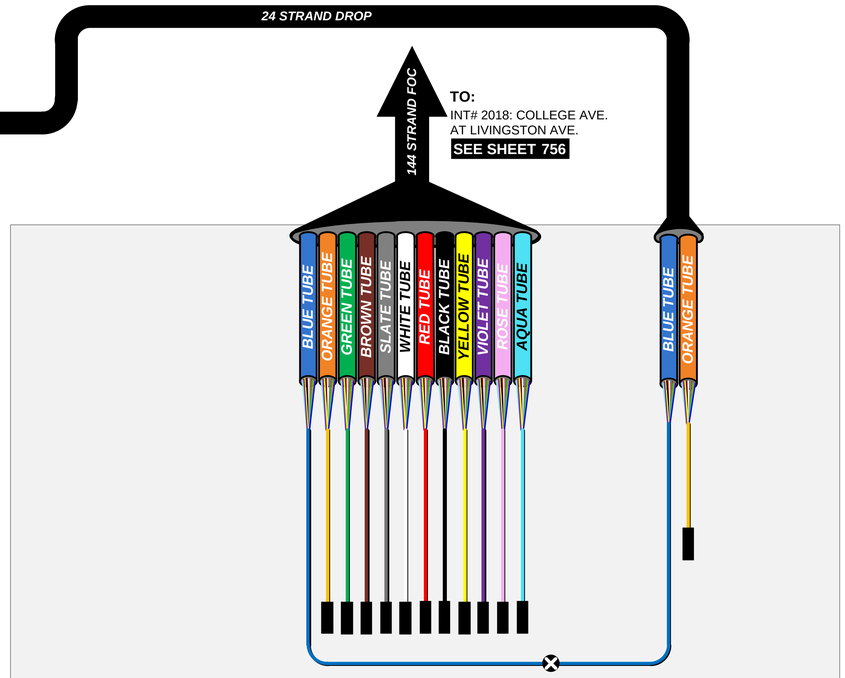


ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 2018: COLLEGE AVE. AT LIVINGSTON AVE.
SEE SHEET 756



PATCH PANEL ENCLOSURE – 24 TERMINATION



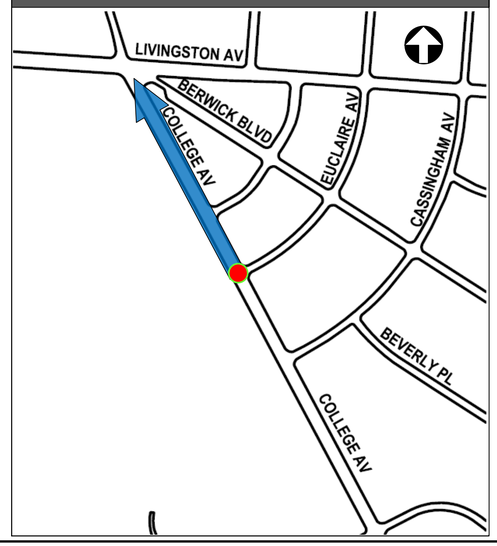
2 Cable Entries
12 Fusion Splices
12 Coiled Buffer Tubes

CLAMSHELL, 288
FUSION SPLICE, AERIAL
SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 2082
REFER TO SHEET 327 FOR CONSTRUCTION PLAN DETAILS

CIP: 540007 - 100005
PID NUMBER: 14522

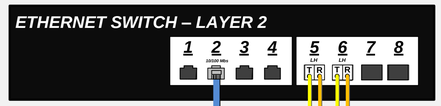
INT# 2082: COLLEGE AVE. AT EUCLAIRE AVE.
COMMUNICATIONS DIAGRAM

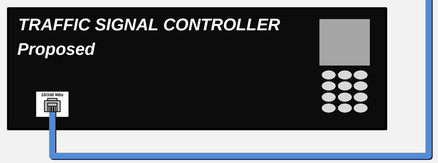
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

758
911

746-759.vsd - 2082 layout ~ last saved 5/2/2017 3:57:52 PM ~ printed: 3/11/2016 12:15:55 PM

TRAFFIC SIGNAL CABINET ASSEMBLY





ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 2018: COLLEGE AVE. AT LIVINGSTON AVE.
SEE SHEET 756

PORT 6: PROPOSED COMMUNICATION NODE# 070105.5: IR-70 AT JAMES RD
SEE SHEET 874



PATCH PANEL ENCLOSURE – 24 TERMINATION



TO:
INT# 2019: LIVINGSTON AVE. AT ROOSEVELT AVE.
SEE SHEET 757

TO:
INT# 2002: JAMES RD. AT LIVINGSTON AVE.
SEE SHEET 760

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
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- *LH/ZX* GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 2020
REFER TO SHEET 332 FOR CONSTRUCTION PLAN DETAILS

CIP: 540007 - 100005
PID NUMBER: 14522

INT# 2020: KENWICK RD. AT LIVINGSTON AVE.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

759
911

746-759.vsd - 2020 layout ~ last saved 5/2/2017 3:57:52 PM ~ printed 3/11/2016 12:15:55 PM

TRAFFIC SIGNAL CABINET ASSEMBLY

ETHERNET SWITCH – LAYER 2

1 2 3 4 5 6 7 8

ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 2181: ASTOR AVE. AT JAMES RD.
SEE SHEET 803

PORT 6: INT# 2145: JAMES RD. AT SCOTTWOOD RD.
SEE SHEET 801

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
ANALOG VIDEO
10/100 Mbs

COMPOSITE CCTV CABLE

BLUE TUBE (NORTH)
ORANGE TUBE (SOUTH)
BLUE TUBE (EAST)
ORANGE TUBE (WEST)

PATCH PANEL ENCLOSURES : (2) – 24 TERMINATION

PROPOSED CCTV

24 STRAND DROP

24 STRAND DROP

144 STRAND FOC

TO:
INT# 2181: ASTOR AVE. AT JAMES RD.
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

144 STRAND FOC

TO:
INT# 2020: KENWICK RD. AT LIVINGSTON AVE.
SEE SHEET 759

144 STRAND FOC

TO:
INT# 2022: LIVINGSTON AVE. AT ZETTLER RD.
SEE SHEET 761

144 STRAND FOC

TO:
INT# 2003: DOVER RD. AT JAMES RD.
SEE SHEET 802

6 Cable Entries
264 Fusion Splices
8 Coiled Buffer Tubes

DOME, 800 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

LEGEND

- 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 – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX T R — GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 2002

REFER TO SHEET 334 FOR CONSTRUCTION PLAN DETAILS

CIP: 540007 - 100005
PID NUMBER: 14522

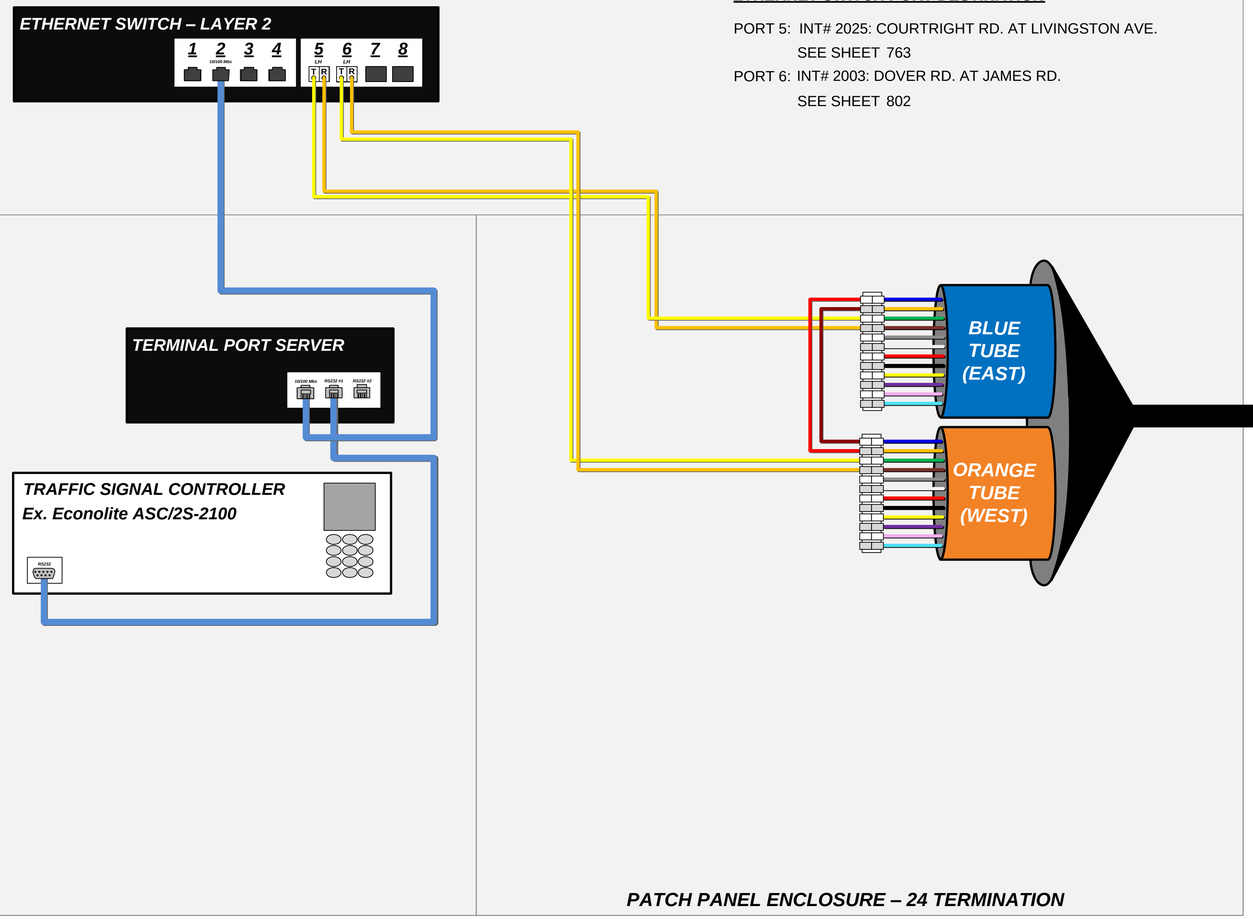
INT# 2002: JAMES RD. AT LIVINGSTON AVE.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

760
911

760-773.vsd - 2002 layout ~ last saved 5/2/2017 3:59:43 PM ~ printed: 3/11/2016 12:17:25 PM

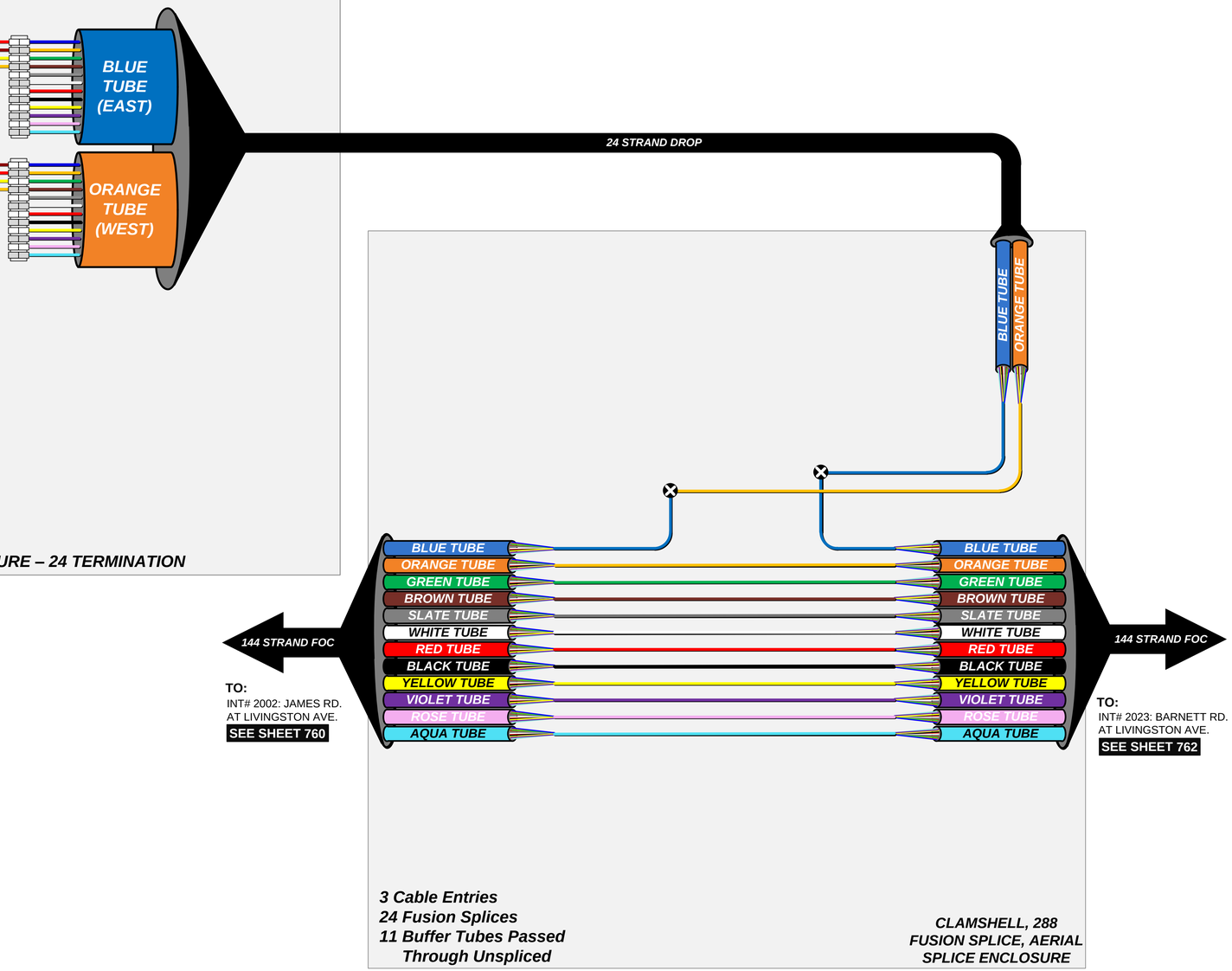
TRAFFIC SIGNAL CABINET ASSEMBLY



ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 2025: COURTRIGHT RD. AT LIVINGSTON AVE.
SEE SHEET 763

PORT 6: INT# 2003: DOVER RD. AT JAMES RD.
SEE SHEET 802



TO:
INT# 2002: JAMES RD.
AT LIVINGSTON AVE.
SEE SHEET 760

TO:
INT# 2023: BARNETT RD.
AT LIVINGSTON AVE.
SEE SHEET 762

3 Cable Entries
24 Fusion Splices
11 Buffer Tubes Passed Through Unspliced

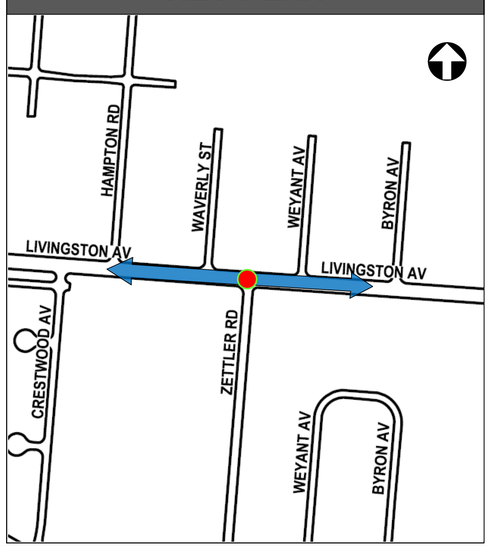
CLAMSHELL, 288 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

PATCH PANEL ENCLOSURE – 24 TERMINATION

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX — GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 2022
REFER TO SHEET 335 FOR CONSTRUCTION PLAN DETAILS

CIP: 540007 - 100005
PID NUMBER: 14522

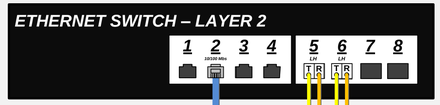
INT# 2022: LIVINGSTON AVE. AT ZETTLER RD.
COMMUNICATIONS DIAGRAM

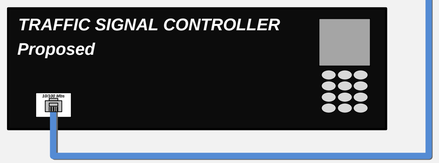
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

761
911

760-773.vsd - 2022 layout ~ last saved 5/2/2017 3:59:43 PM ~ printed: 3/11/2016 12:17:25 PM

TRAFFIC SIGNAL CABINET ASSEMBLY

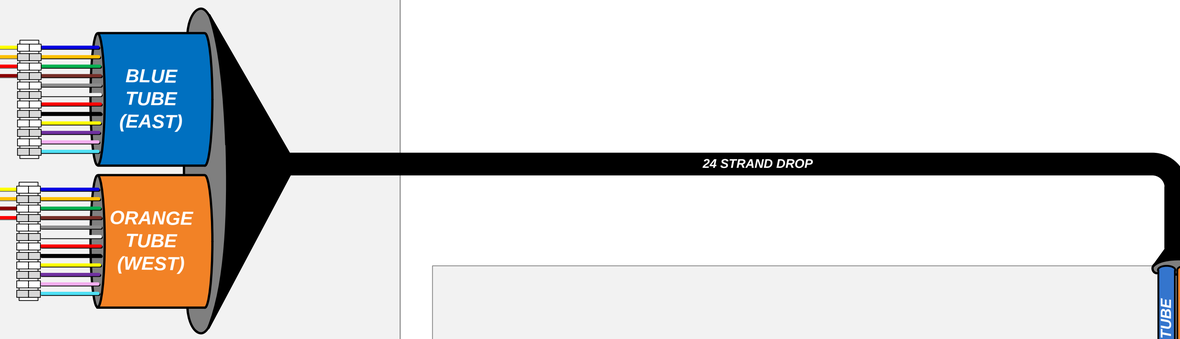




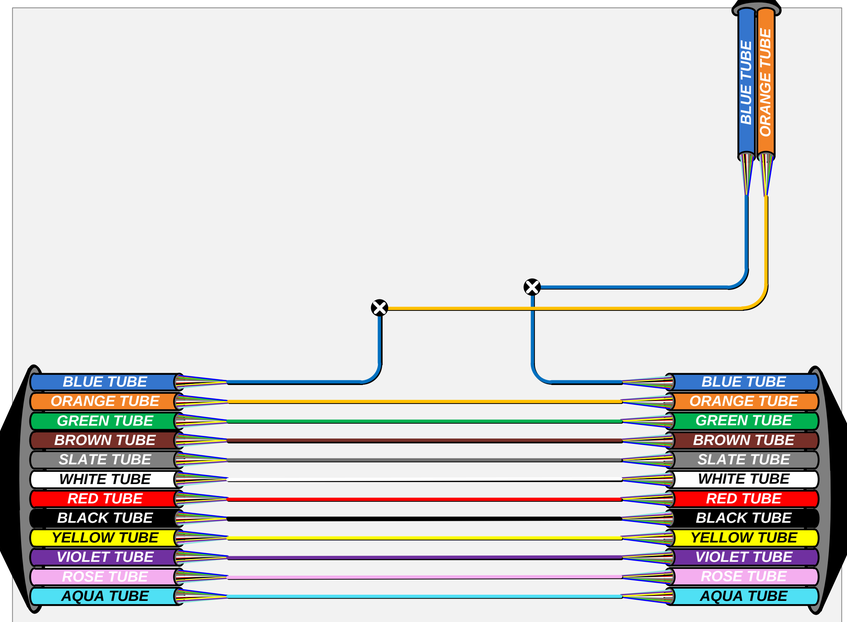
ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 2181: ASTOR AVE. AT JAMES RD.
SEE SHEET 803

PORT 6: INT# 2002: JAMES RD. AT LIVINGSTON AVE.
SEE SHEET 760



PATCH PANEL ENCLOSURE – 24 TERMINATION



TO:
INT# 2022: LIVINGSTON AVE. AT ZETTLER RD.
SEE SHEET 761

TO:
INT# 2025: COURTRIGHT RD. AT LIVINGSTON AVE.
SEE SHEET 763

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
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- *LH/ZX* GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 2023
REFER TO SHEET 336 FOR CONSTRUCTION PLAN DETAILS

CIP: 540007 - 100005
PID NUMBER: 14522

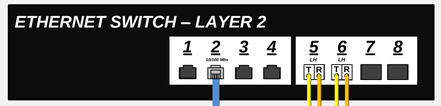
INT# 2023: BARNETT RD. AT LIVINGSTON AVE.
COMMUNICATIONS DIAGRAM

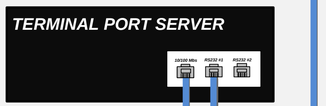
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

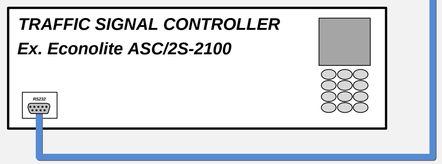
762
911

760-773.vsd - 2023 layout ~ last saved 5/2/2017 3:59:43 PM ~ printed 3/11/2016 12:17:25 PM

TRAFFIC SIGNAL CABINET ASSEMBLY



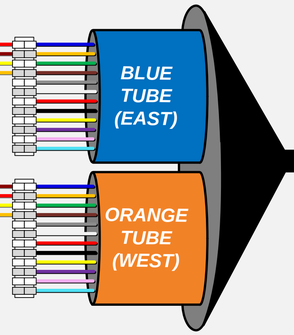


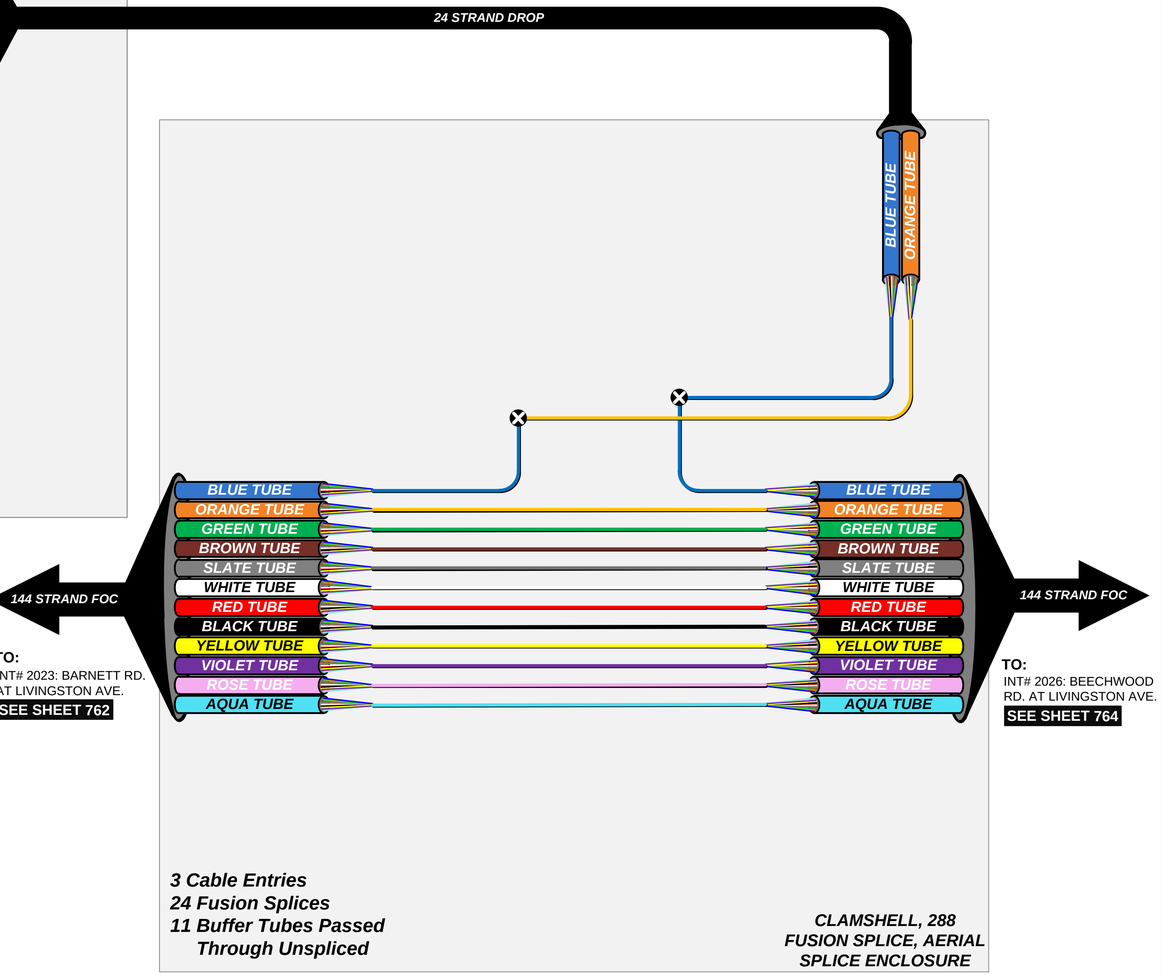


ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 2027: LIVINGSTON AVE. AT YEARLING RD.
SEE SHEET 765

PORT 6: INT# 2022: LIVINGSTON AVE. AT ZETTLER RD.
SEE SHEET 761





TO:
INT# 2023: BARNETT RD. AT LIVINGSTON AVE.
SEE SHEET 762

TO:
INT# 2026: BEECHWOOD RD. AT LIVINGSTON AVE.
SEE SHEET 764

3 Cable Entries
24 Fusion Splices
11 Buffer Tubes Passed Through Unspliced

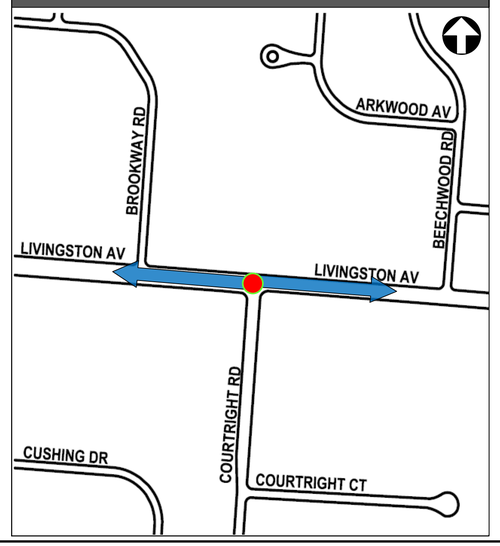
CLAMSHELL, 288 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

PATCH PANEL ENCLOSURE – 24 TERMINATION

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 2025
REFER TO SHEET 340 FOR CONSTRUCTION PLAN DETAILS

CIP: 540007 - 100005
PID NUMBER: 14522

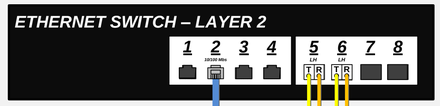
INT# 2025: COURTRIGHT RD. AT LIVINGSTON AVE.
COMMUNICATIONS DIAGRAM

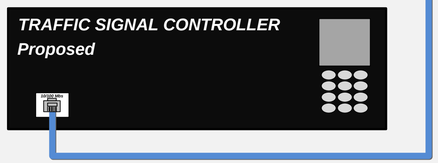
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

763
911

760-773.vsd - 2025 layout - last saved 5/2/2017 3:59:43 PM - printed: 3/11/2016 12:17:25 PM

TRAFFIC SIGNAL CABINET ASSEMBLY

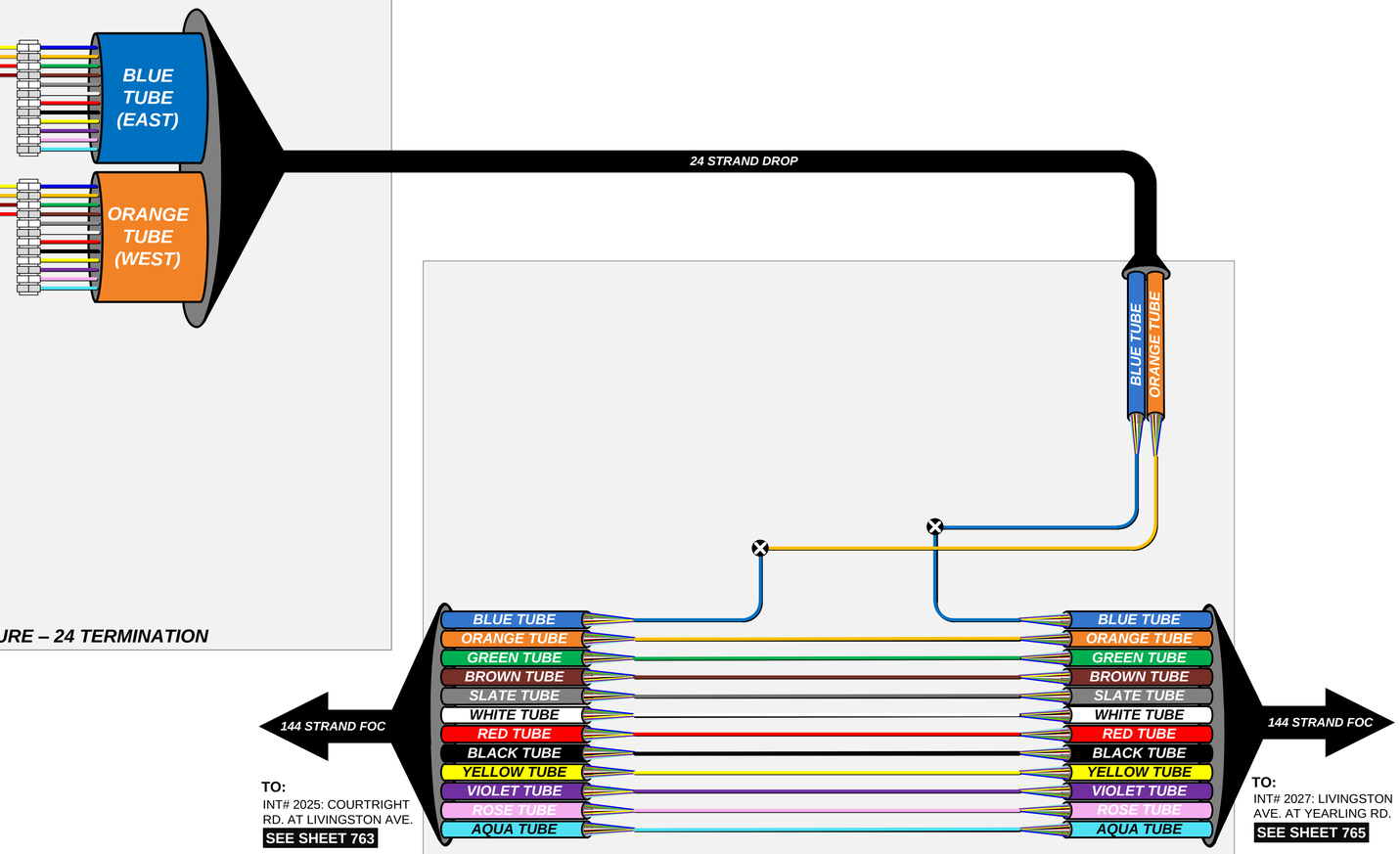




ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 2028: ELAINE RD. AT LIVINGSTON AVE.
SEE SHEET 766

PORT 6: INT# 2023: BARNETT RD. AT LIVINGSTON AVE.
SEE SHEET 762



PATCH PANEL ENCLOSURE – 24 TERMINATION

TO:
INT# 2025: COURTRIGHT RD. AT LIVINGSTON AVE.
SEE SHEET 763

TO:
INT# 2027: LIVINGSTON AVE. AT YEARLING RD.
SEE SHEET 765

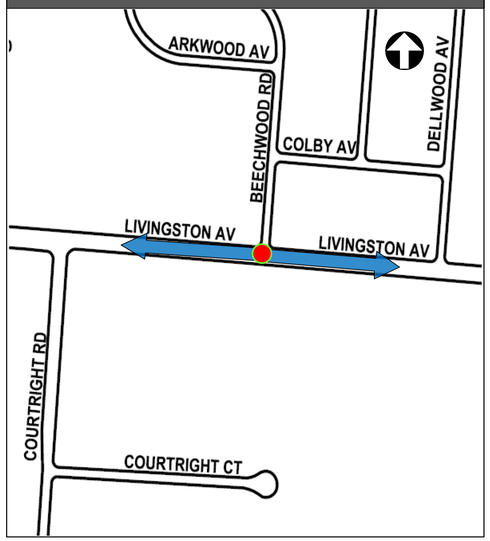
3 Cable Entries
24 Fusion Splices
11 Buffer Tubes Passed Through Unspliced

CLAMSHELL, 288 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 2026
REFER TO SHEET 341 FOR CONSTRUCTION PLAN DETAILS

CIP: 540007 - 100005
PID NUMBER: 14522

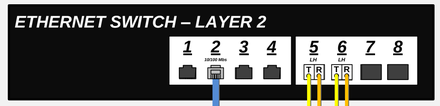
INT# 2026: BEECHWOOD RD. AT LIVINGSTON AVE.
COMMUNICATIONS DIAGRAM

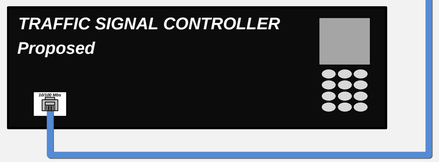
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

764
911

760-773.vsd - 2026 layout – last saved 5/2/2017 3:59:43 PM – printed: 3/11/2016 12:17:25 PM

TRAFFIC SIGNAL CABINET ASSEMBLY

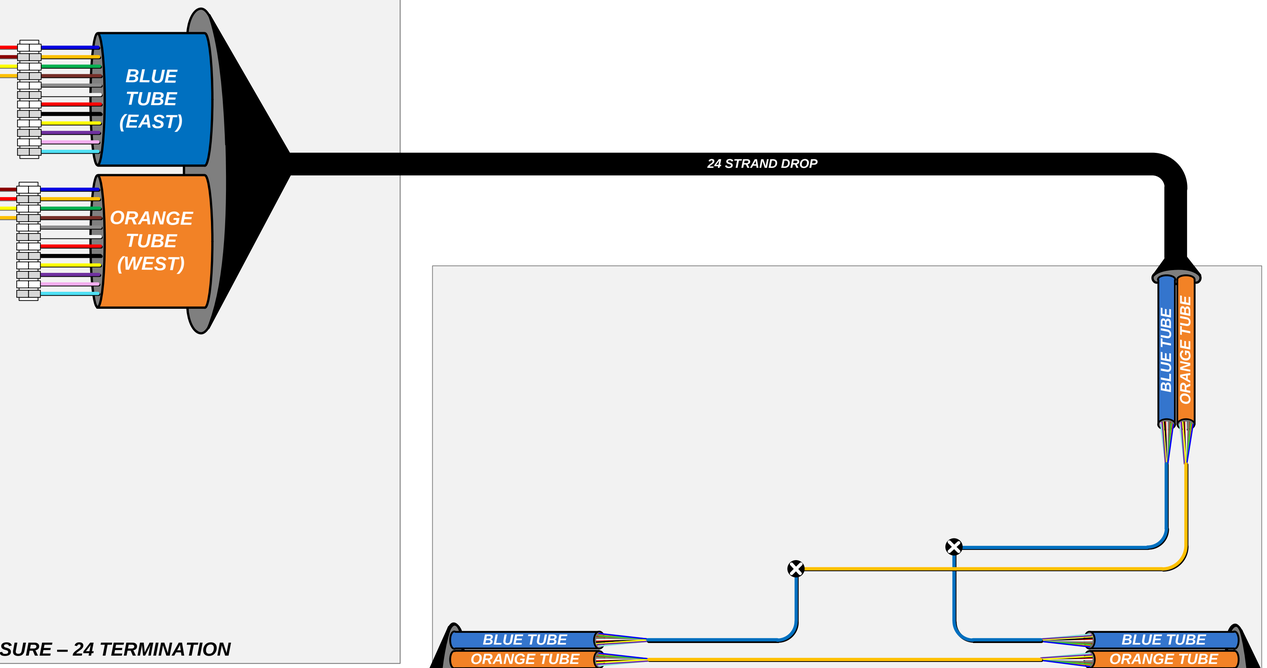




ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 2029: HAMILTON RD. AT LIVINGSTON AVE.
SEE SHEET 767

PORT 6: INT# 2025: COURTRIGHT RD. AT LIVINGSTON AVE.
SEE SHEET 763



TO:
INT# 2026: BEECHWOOD RD. AT LIVINGSTON AVE.
SEE SHEET 764

TO:
INT# 2028: ELAINE RD. AT LIVINGSTON AVE.
SEE SHEET 766

PATCH PANEL ENCLOSURE – 24 TERMINATION

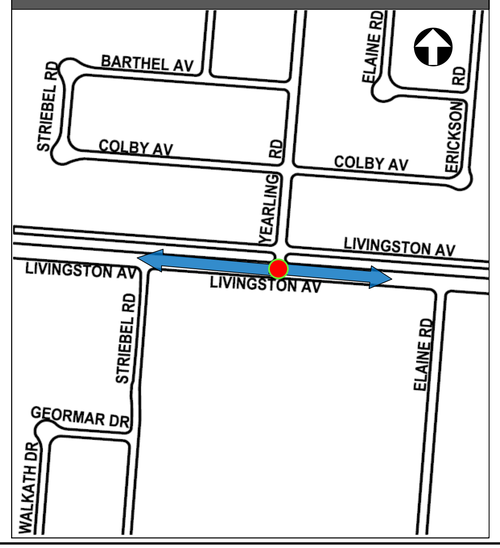
3 Cable Entries
24 Fusion Splices
11 Buffer Tubes Passed Through Unspliced

CLAMSHELL, 288 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 2027
REFER TO SHEET 342 FOR CONSTRUCTION PLAN DETAILS

CIP: 540007 - 100005
PID NUMBER: 14522

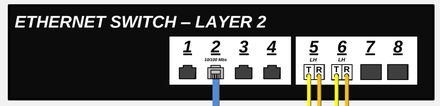
INT# 2027: LIVINGSTON AVE. AT YEARLING RD.
COMMUNICATIONS DIAGRAM

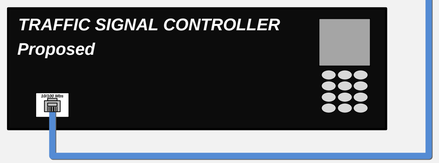
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

765
911

760-773.vsd - 2027 layout ~ last saved 5/2/2017 3:59:43 PM ~ printed: 3/11/2016 12:17:25 PM

TRAFFIC SIGNAL CABINET ASSEMBLY





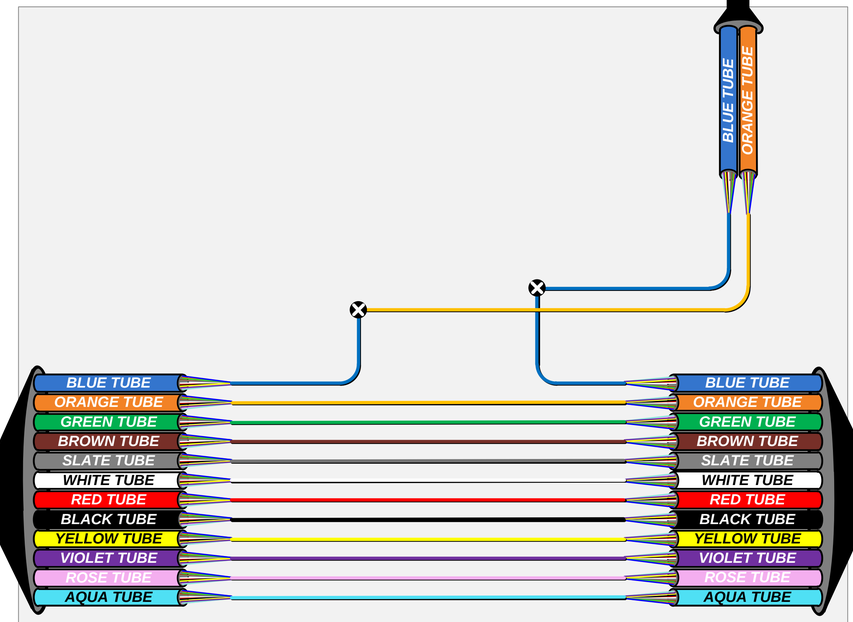
ETHERNET SWITCH PORT DESTINATION

PORT 5: PROPOSED COMMUNICATION NODE# 070107.6: HAMILTON RD. AT IR-70
SEE SHEET 876

PORT 6: INT# 2026: BEECHWOOD RD. AT LIVINGSTON AVE.
SEE SHEET 764



PATCH PANEL ENCLOSURE – 24 TERMINATION



TO:
INT# 2027: LIVINGSTON AVE. AT YEARLING RD.
SEE SHEET 765

TO:
INT# 2029: HAMILTON RD. AT LIVINGSTON AVE.
SEE SHEET 767

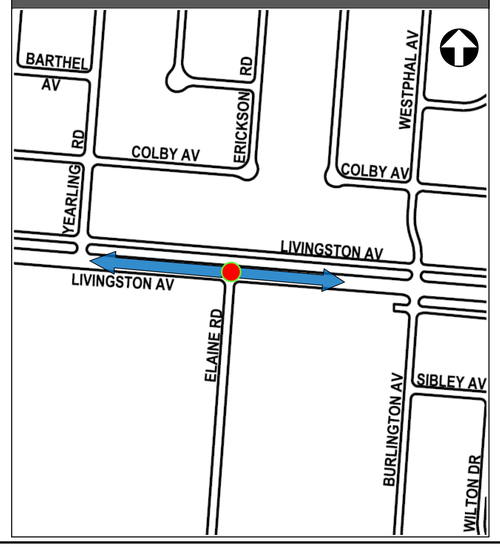
3 Cable Entries
24 Fusion Splices
11 Buffer Tubes Passed Through Unspliced

CLAMSHELL, 288 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 2028
REFER TO SHEET 343 FOR CONSTRUCTION PLAN DETAILS

CIP: 540007 - 100005
PID NUMBER: 14522

INT# 2028: ELAINE RD. AT LIVINGSTON AVE.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

766
911

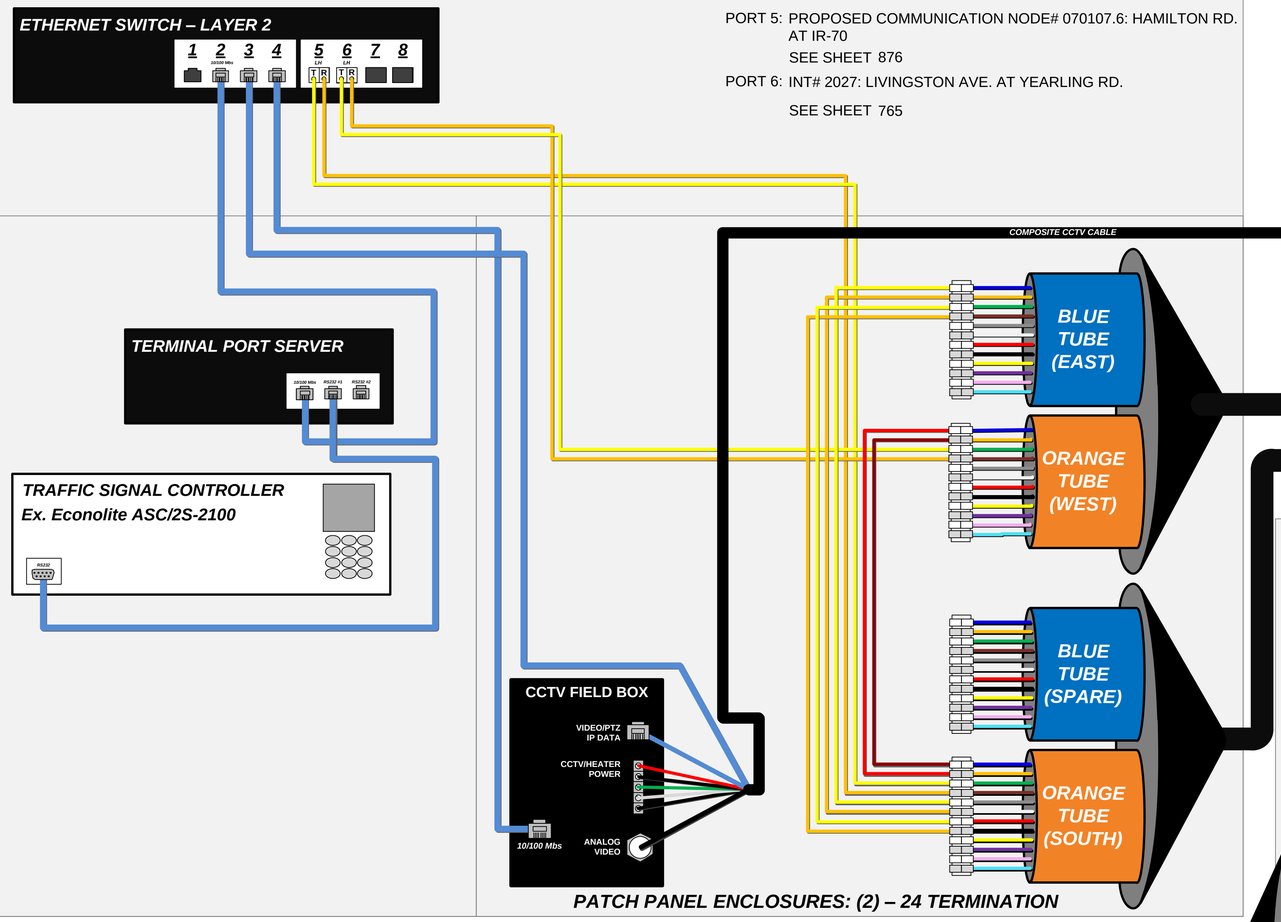
760-773.vsd - 2028 layout ~ last saved 5/2/2017 3:59:43 PM ~ printed: 3/11/2016 12:17:25 PM

TRAFFIC SIGNAL CABINET ASSEMBLY

ETHERNET SWITCH PORT DESTINATION

PORT 5: PROPOSED COMMUNICATION NODE# 070107.6: HAMILTON RD. AT IR-70
SEE SHEET 876

PORT 6: INT# 2027: LIVINGSTON AVE. AT YEARLING RD.
SEE SHEET 765

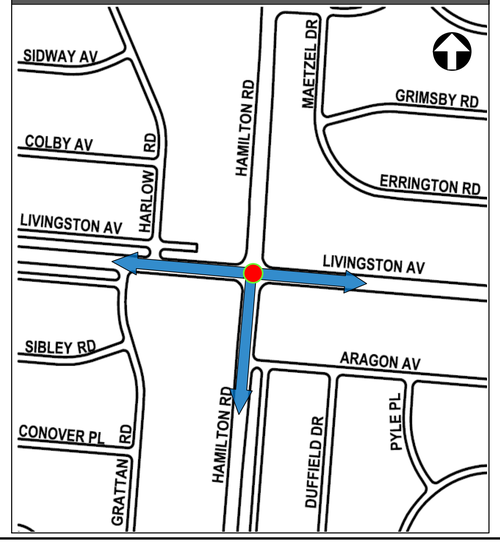


PATCH PANEL ENCLOSURES: (2) – 24 TERMINATION

LEGEND

- 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 – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 2029

REFER TO SHEET 349 FOR CONSTRUCTION PLAN DETAILS

CIP: 540007 - 100005
PID NUMBER: 14522

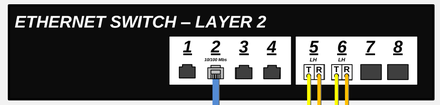
INT# 2029: HAMILTON RD. AT LIVINGSTON AVE.
COMMUNICATIONS DIAGRAM

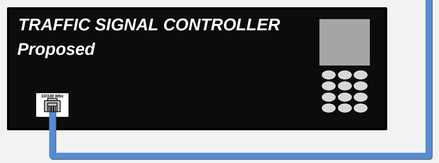
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

767
911

760-773.vsd - 2029 layout ~ last saved 5/2/2017 3:59:43 PM ~ printed: 3/11/2016 12:17:25 PM

TRAFFIC SIGNAL CABINET ASSEMBLY

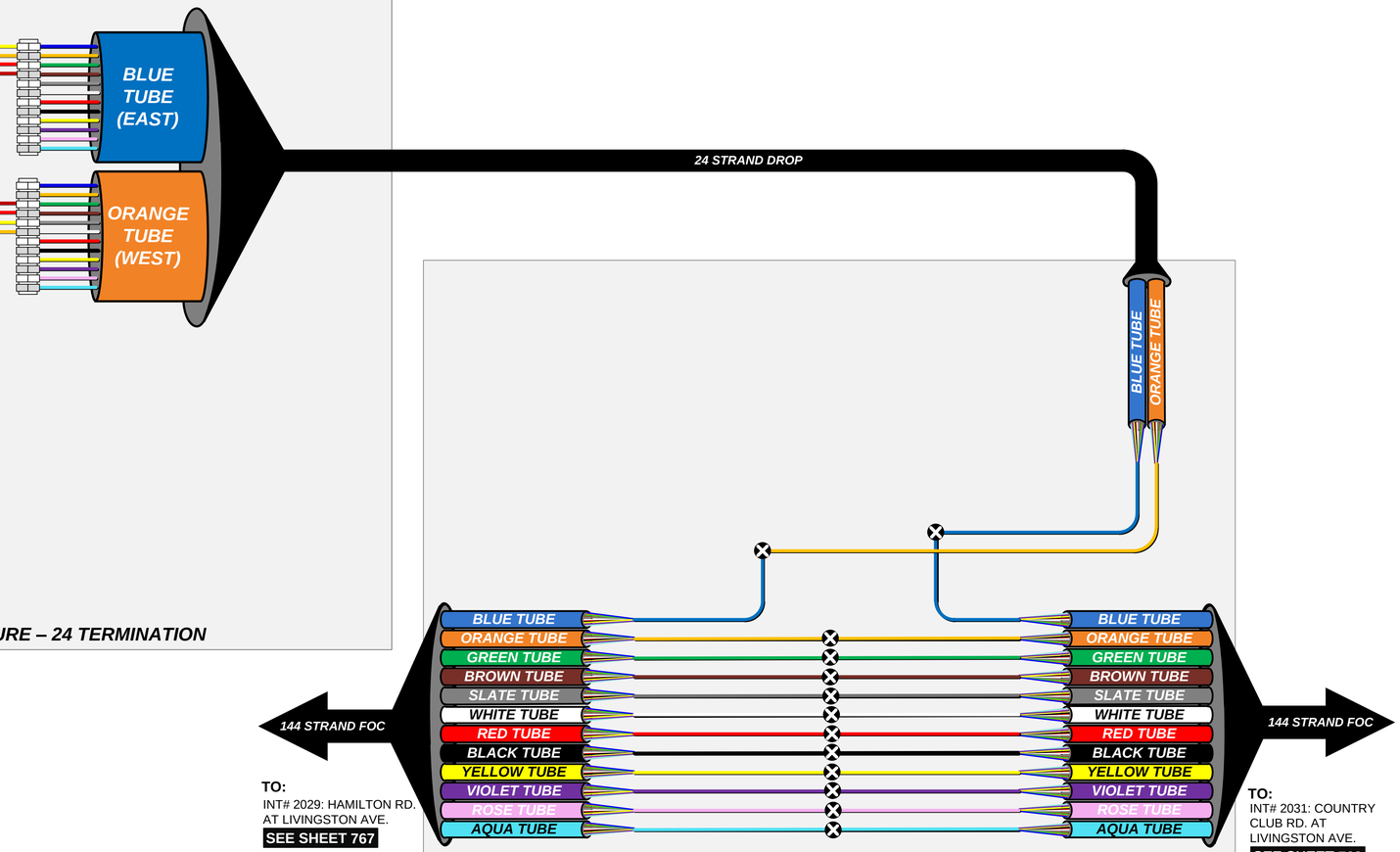




ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 2032: LATTIMER DR. AT LIVINGSTON AVE.
SEE SHEET 770

PORT 6: PROPOSED COMMUNICATION NODE# 070107.6: HAMILTON RD. AT IR-70
SEE SHEET 876



TO:
INT# 2029: HAMILTON RD. AT LIVINGSTON AVE.
SEE SHEET 767

TO:
INT# 2031: COUNTRY CLUB RD. AT LIVINGSTON AVE.
SEE SHEET 769

3 Cable Entries
156 Fusion Splices

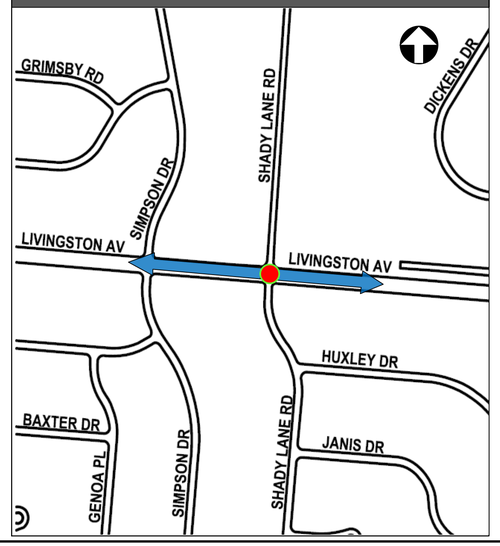
CLAMSHELL, 288 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

PATCH PANEL ENCLOSURE – 24 TERMINATION

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 2030
REFER TO SHEET 350 FOR CONSTRUCTION PLAN DETAILS

CIP: 540007 - 100005
PID NUMBER: 14522

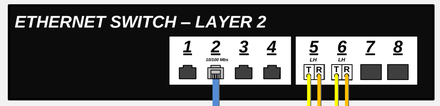
INT# 2030: LIVINGSTON AVE. AT SHADY LANE RD.
COMMUNICATIONS DIAGRAM

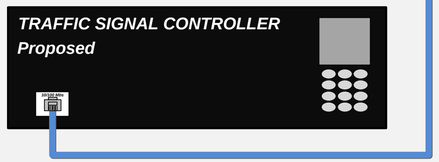
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

768
911

760-773.vsd - 2030 layout ~ last saved 5/2/2017 3:59:43 PM ~ printed: 3/11/2016 12:17:25 PM

TRAFFIC SIGNAL CABINET ASSEMBLY

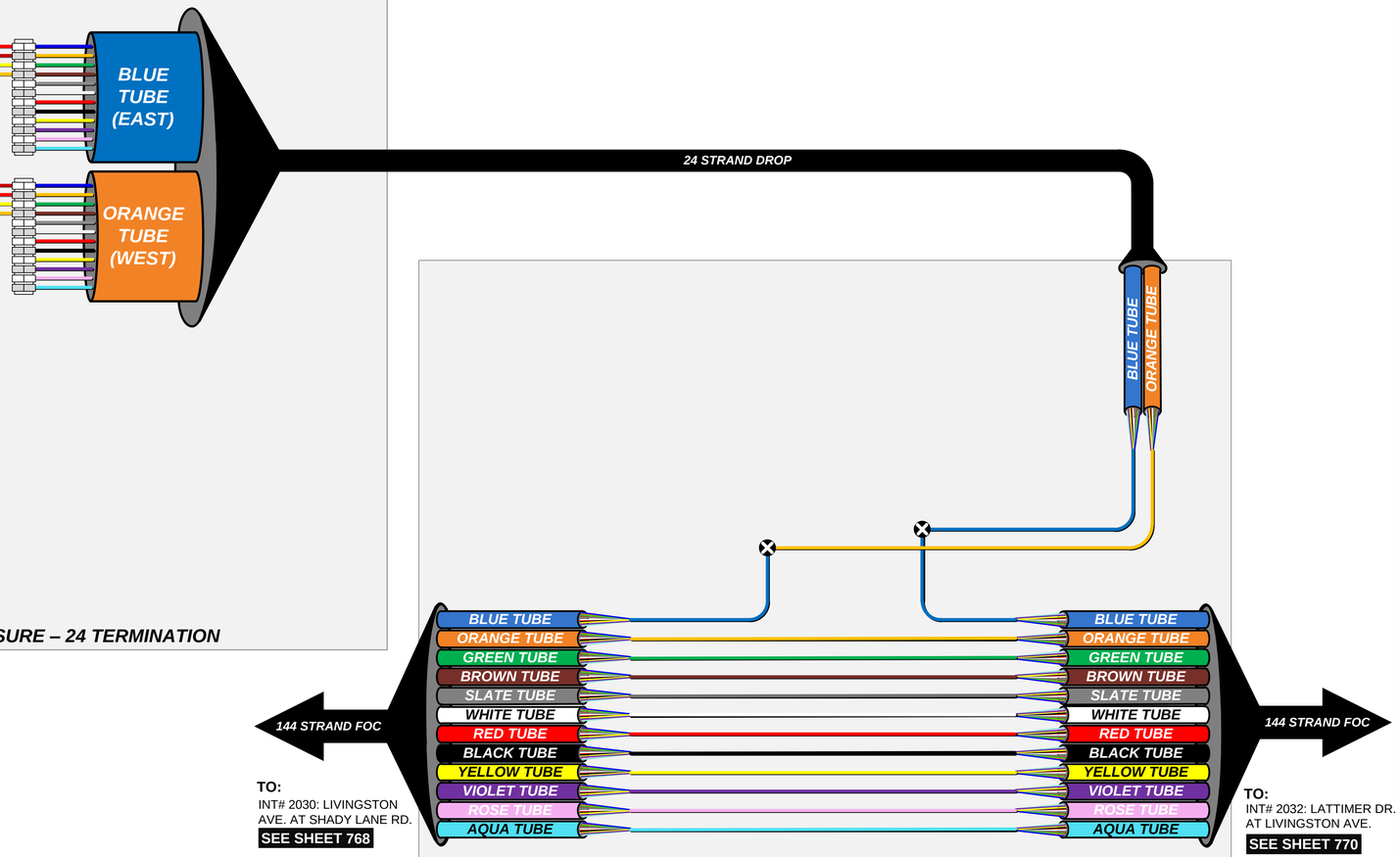




ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 2167: LIVINGSTON AVE. AT NOE-BIXBY RD./WOODCREST DR.
SEE SHEET 771

PORT 6: INT# 2030: LIVINGSTON AVE. AT SHADY LANE RD.
SEE SHEET 768



TO:
INT# 2030: LIVINGSTON AVE. AT SHADY LANE RD.
SEE SHEET 768

TO:
INT# 2032: LATTIMER DR. AT LIVINGSTON AVE.
SEE SHEET 770

3 Cable Entries
24 Fusion Splices
11 Buffer Tubes Passed Through Unspliced

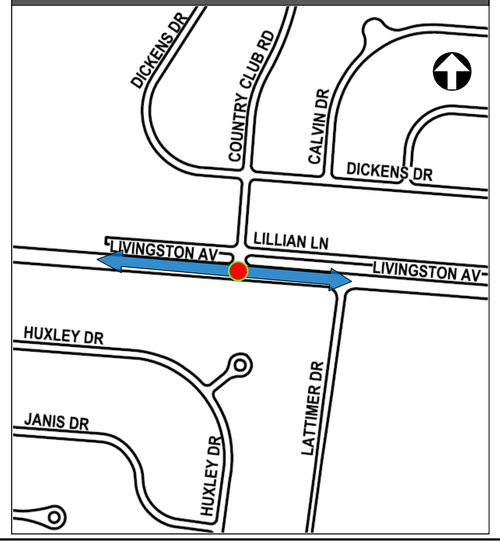
CLAMSHELL, 288 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

PATCH PANEL ENCLOSURE – 24 TERMINATION

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 2031
REFER TO SHEET 351 FOR CONSTRUCTION PLAN DETAILS

CIP: 540007 - 100005
PID NUMBER: 14522

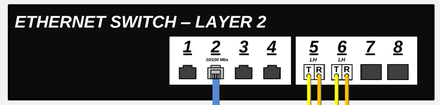
INT# 2031: COUNTRY CLUB RD. AT LIVINGSTON AVE.
COMMUNICATIONS DIAGRAM

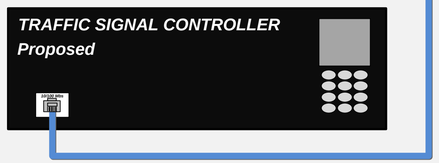
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

769
911

760-773.vsd - 2031 layout ~ last saved 5/2/2017 3:59:43 PM ~ printed: 3/11/2016 12:17:25 PM

TRAFFIC SIGNAL CABINET ASSEMBLY

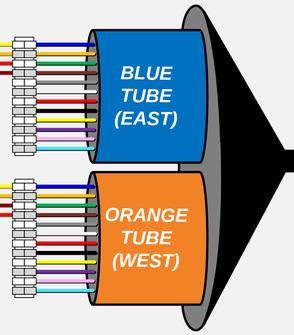


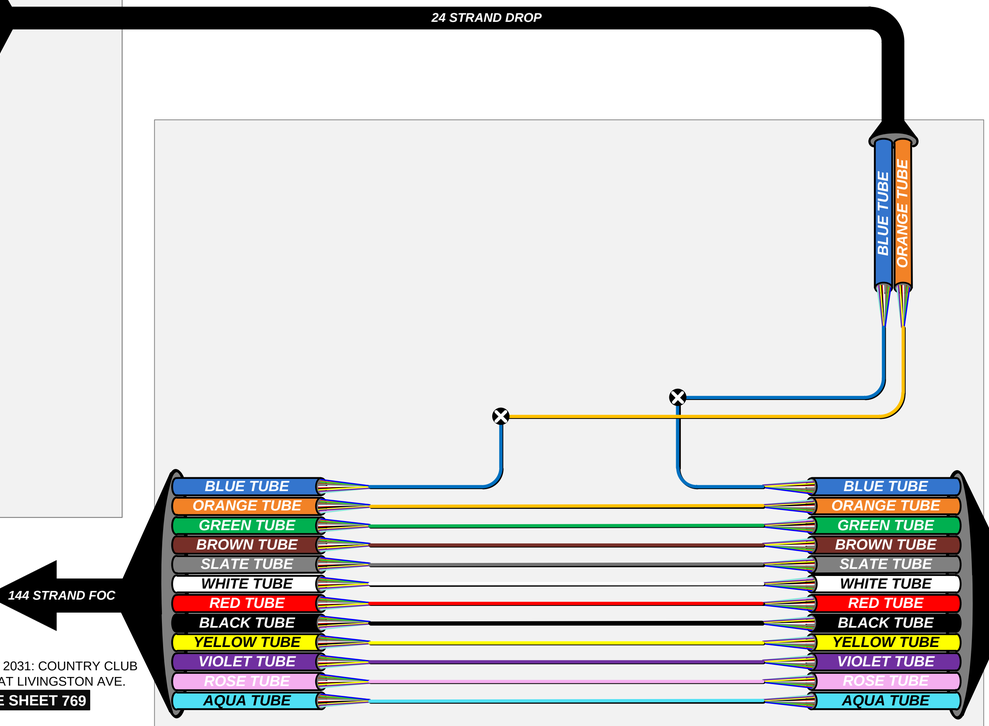


ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 2168: LIVINGSTON AVE. AT LONSDALE RD.
SEE SHEET 772

PORT 6: INT# 2030: LIVINGSTON AVE. AT SHADY LANE RD.
SEE SHEET 768





TO:
INT# 2031: COUNTRY CLUB RD. AT LIVINGSTON AVE.
SEE SHEET 769

TO:
INT# 2167: LIVINGSTON AVE. AT NOE-BIXBY RD./ WOODCREST DR.
SEE SHEET 771

3 Cable Entries
24 Fusion Splices
11 Buffer Tubes Passed Through Unspliced

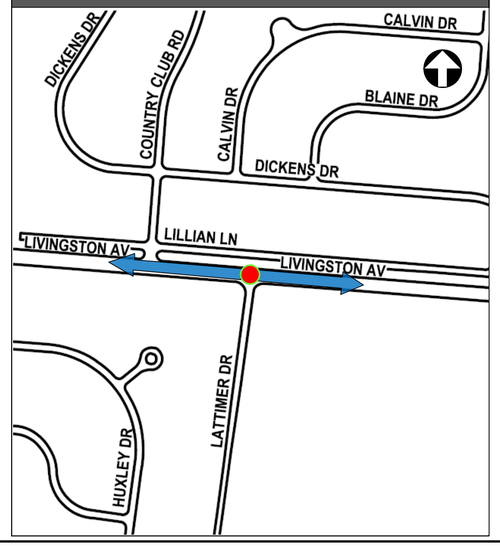
CLAMSHELL, 288 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

PATCH PANEL ENCLOSURE – 24 TERMINATION

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 2032
REFER TO SHEET 352 FOR CONSTRUCTION PLAN DETAILS

CIP: 540007 - 100005
PID NUMBER: 14522

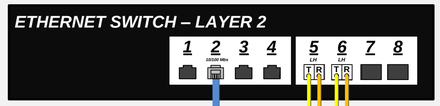
INT# 2032: LATTIMER DR. AT LIVINGSTON AVE.
COMMUNICATIONS DIAGRAM

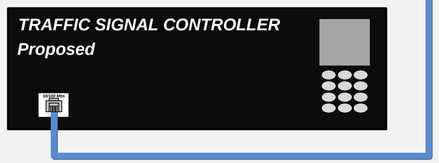
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

770
911

760-773.vsd - 2032 layout ~ last saved 5/2/2017 3:59:43 PM ~ printed: 3/11/2016 12:17:25 PM

TRAFFIC SIGNAL CABINET ASSEMBLY

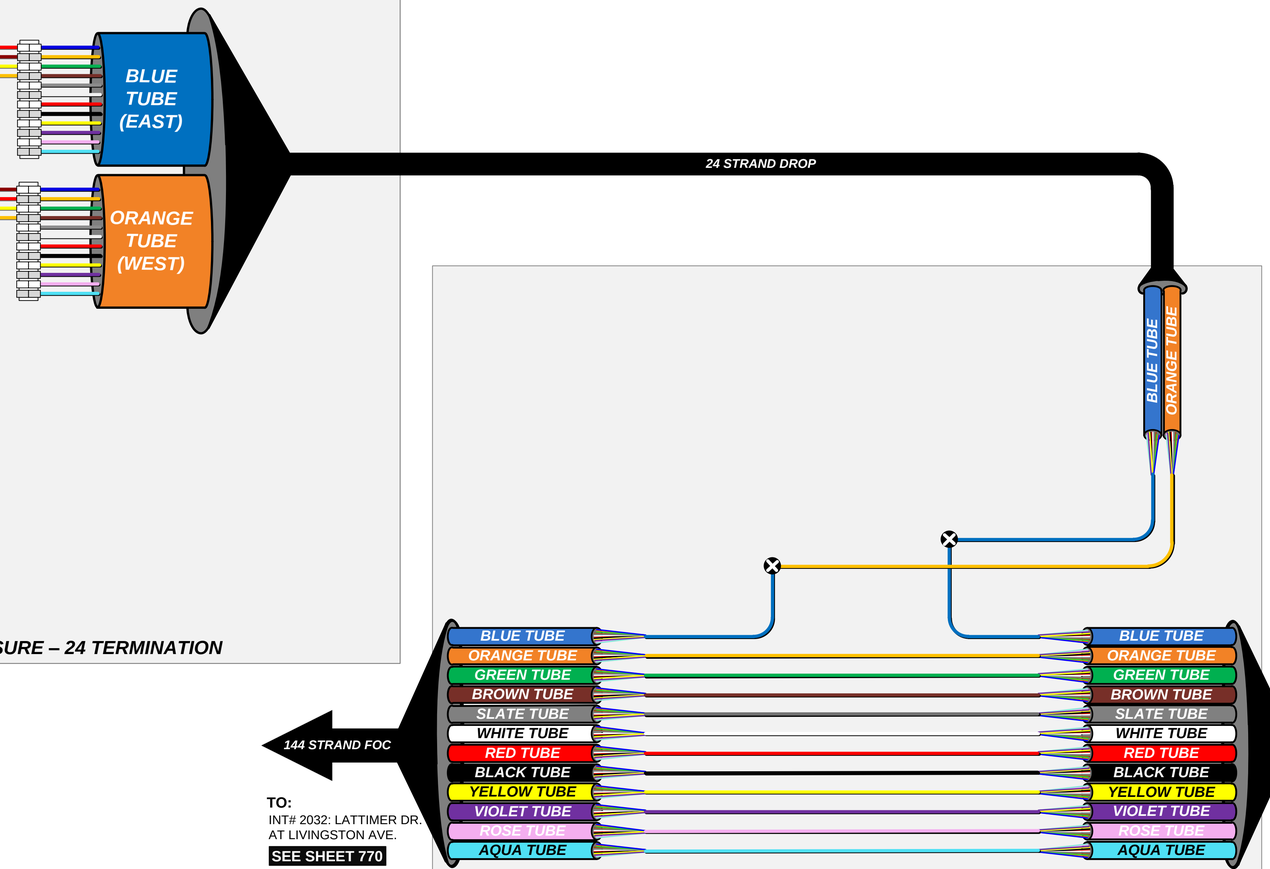




ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 2169: BAIRSFORD DR. AT LIVINGSTON AVE.
SEE SHEET 774

PORT 6: INT# 2031: COUNTRY CLUB RD. AT LIVINGSTON AVE.
SEE SHEET 769



TO:
INT# 2032: LATTIMER DR. AT LIVINGSTON AVE.
SEE SHEET 770

TO:
INT# 2168: LIVINGSTON AVE. AT LONSDALE RD.
SEE SHEET 772

PATCH PANEL ENCLOSURE – 24 TERMINATION

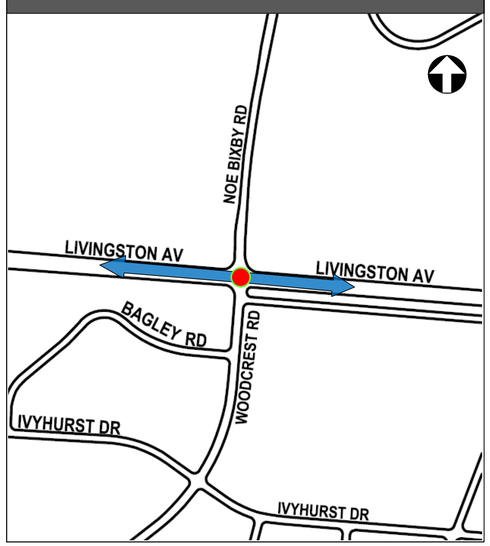
3 Cable Entries
24 Fusion Splices
11 Buffer Tubes Passed Through Unspliced

CLAMSHELL, 288 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 2167
REFER TO SHEET 355 FOR CONSTRUCTION PLAN DETAILS

CIP: 540007 - 100005
PID NUMBER: 14522

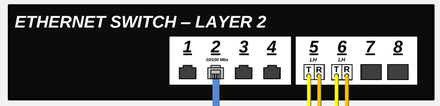
INT# 2167: LIVINGSTON AVE. AT NOE-BIXBY RD./WOODCREST DR.
COMMUNICATIONS DIAGRAM

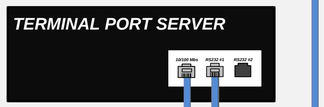
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

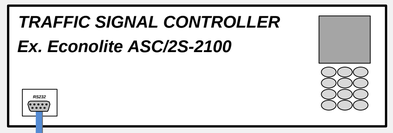
771
911

760-773.vsd - 2167 layout - last saved 5/2/2017 3:59:43 PM - printed: 3/11/2016 12:17:25 PM

TRAFFIC SIGNAL CABINET ASSEMBLY



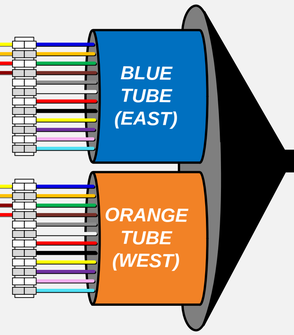


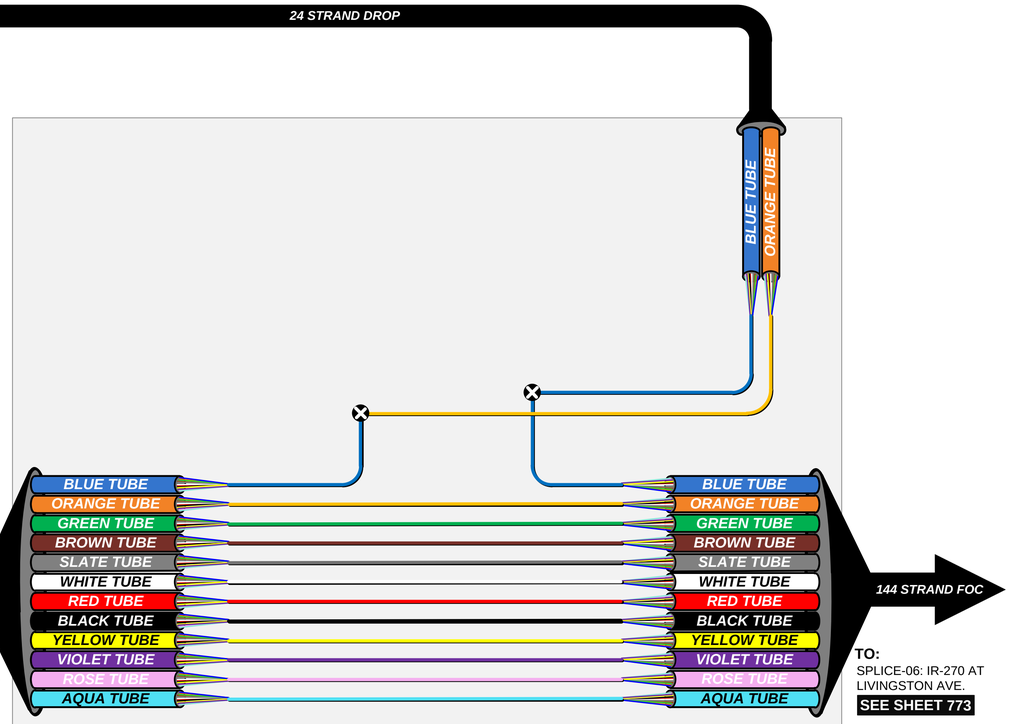


ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 2170: LIVINGSTON AVE. AT McNAUGHTEN RD.
SEE SHEET 775

PORT 6: INT# 2032: LATTIMER DR. AT LIVINGSTON AVE.
SEE SHEET 770





TO:
INT# 2167: LIVINGSTON AVE. AT NOE-BIXBY RD./ WOODCREST DR.
SEE SHEET 771

TO:
SPLICE-06: IR-270 AT LIVINGSTON AVE.
SEE SHEET 773

3 Cable Entries
24 Fusion Splices
11 Buffer Tubes Passed Through Unspliced

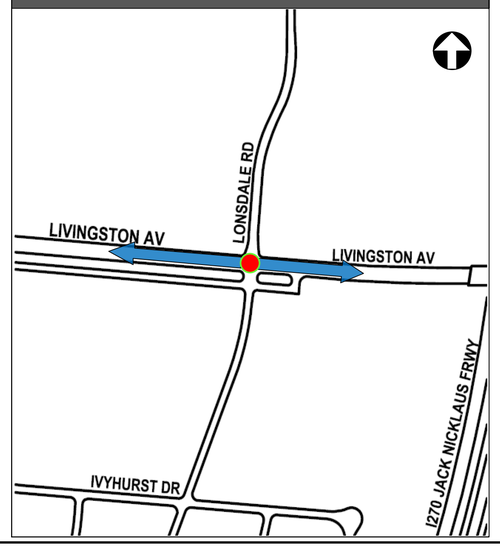
CLAMSHELL, 288 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

PATCH PANEL ENCLOSURE – 24 TERMINATION

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 2168
REFER TO SHEET 356 FOR CONSTRUCTION PLAN DETAILS

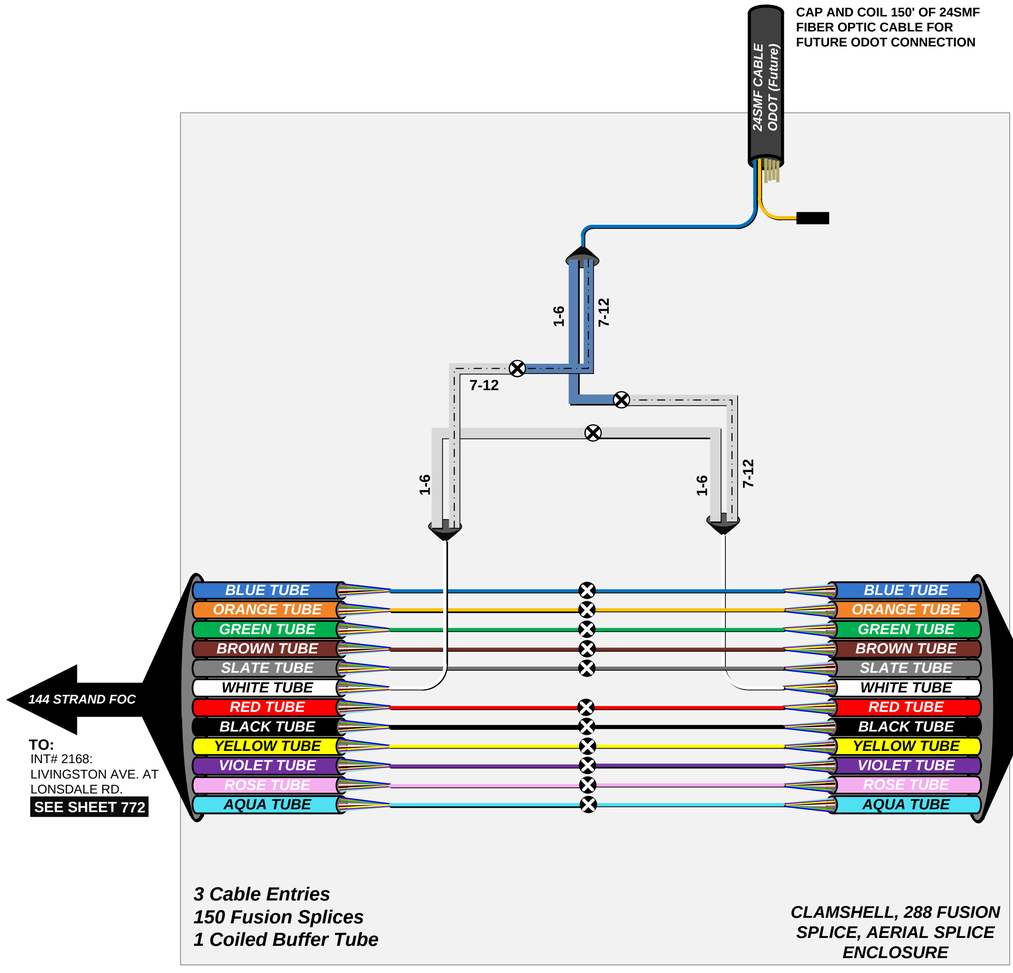
CIP: 540007 - 100005
PID NUMBER: 14522

INT# 2168: LIVINGSTON AVE. AT LONSDALE RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

772
911

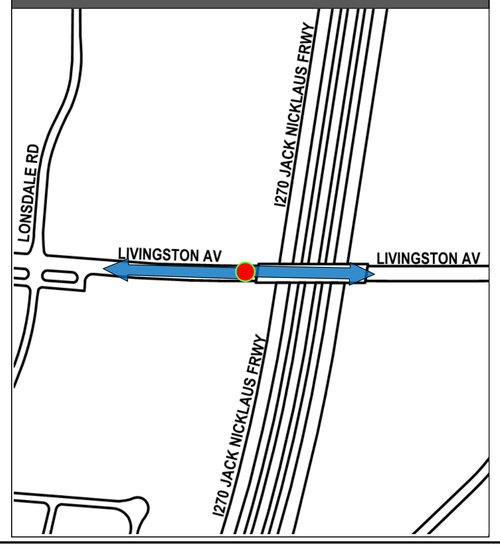
760-773.vsd - 2168 layout ~ last saved 5/2/2017 3:59:43 PM ~ printed: 3/11/2016 12:17:25 PM



LEGEND

- 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 – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

KEY PLAN



SPLICE-06

REFER TO SHEET 357 FOR CONSTRUCTION PLAN DETAILS

CIP: 540007 - 100005
PID NUMBER: 14522

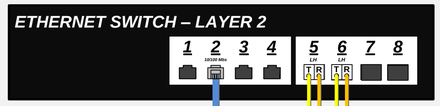
SPLICE-06: IR-270 AT LIVINGSTON AVE.
COMMUNICATIONS DIAGRAM

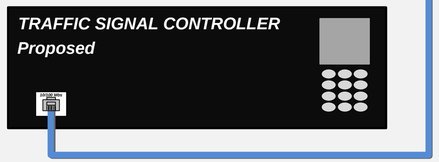
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

773
911

760-773.vsd - SPLICE-06 layout – last saved 5/2/2017 3:59:43 PM – printed: 3/11/2016 12:17:25 PM

TRAFFIC SIGNAL CABINET ASSEMBLY

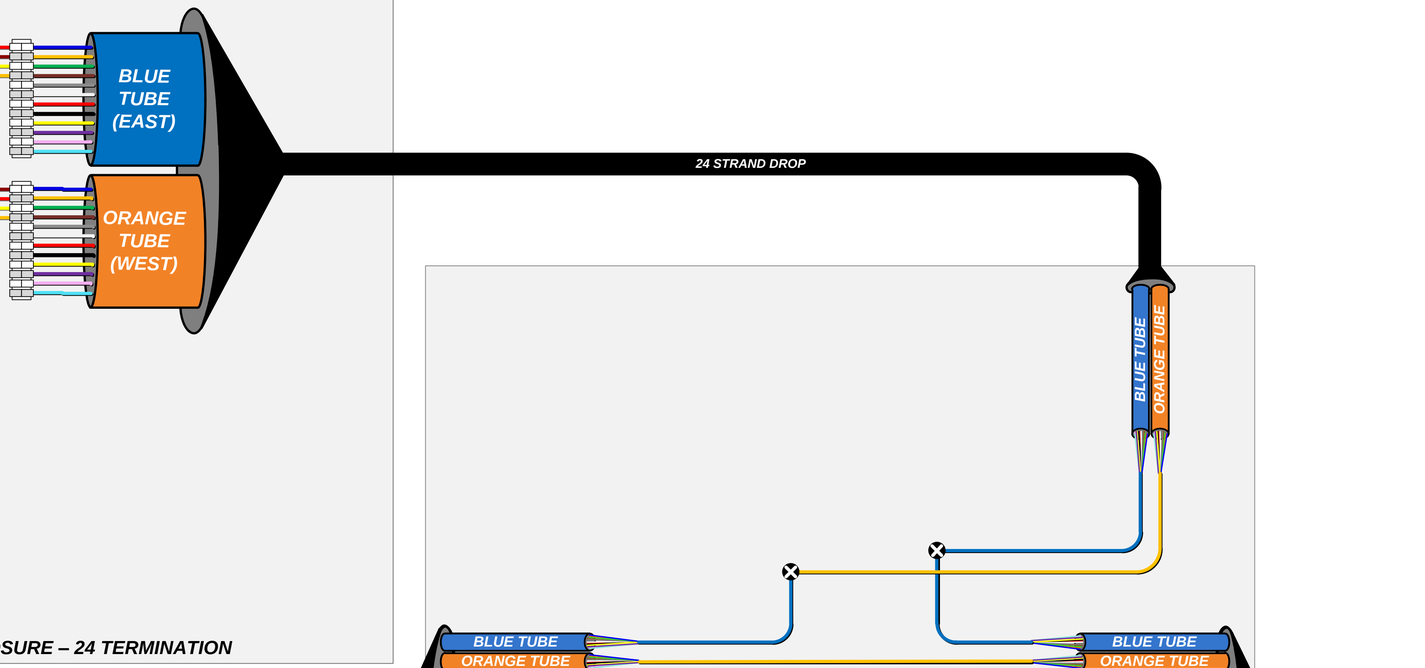




ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 2201: BRICE RD. AT HOME DEPOT
SEE SHEET 836

PORT 6: INT# 2167: LIVINGSTON AVE. AT NOE-BIXBY RD./ WOODCREST DR.
SEE SHEET 771



TO:
SPLICE-06: IR-270 AT LIVINGSTON AVE.
SEE SHEET 773

TO:
INT# 2170: LIVINGSTON AVE. AT McNAUGHTEN RD.
SEE SHEET 775

3 Cable Entries
24 Fusion Splices
11 Buffer Tubes Passed Through Unspliced

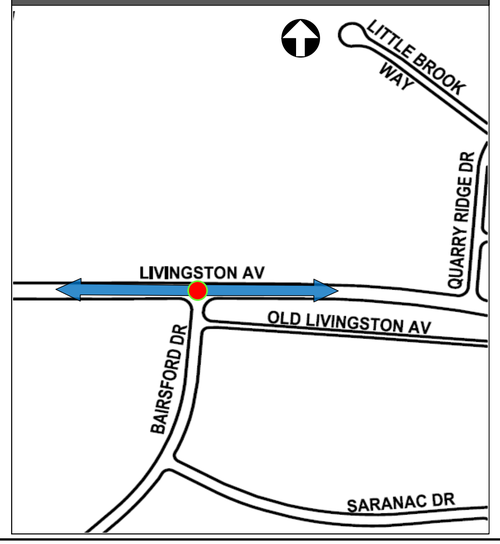
CLAMSHELL, 288 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

PATCH PANEL ENCLOSURE – 24 TERMINATION

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- 288 STRAND SMF
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 2169
REFER TO SHEET 358 FOR CONSTRUCTION PLAN DETAILS

CIP: 540007 - 100005
PID NUMBER: 14522

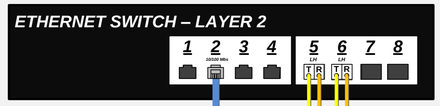
INT# 2169: BAIRSFORD DR. AT LIVINGSTON AVE.
COMMUNICATIONS DIAGRAM

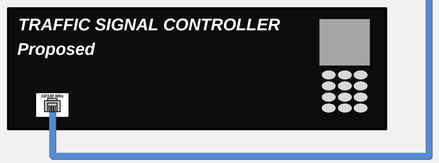
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

774
911

774-786.vsd - 2169 layout ~ last saved 5/2/2017 4:01:15 PM ~ printed: 3/11/2016 12:18:51 PM

TRAFFIC SIGNAL CABINET ASSEMBLY

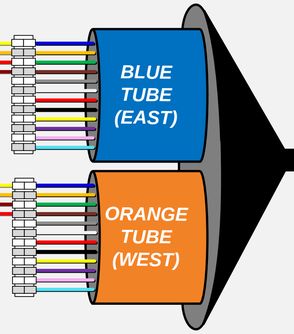




ETHERNET SWITCH PORT DESTINATION

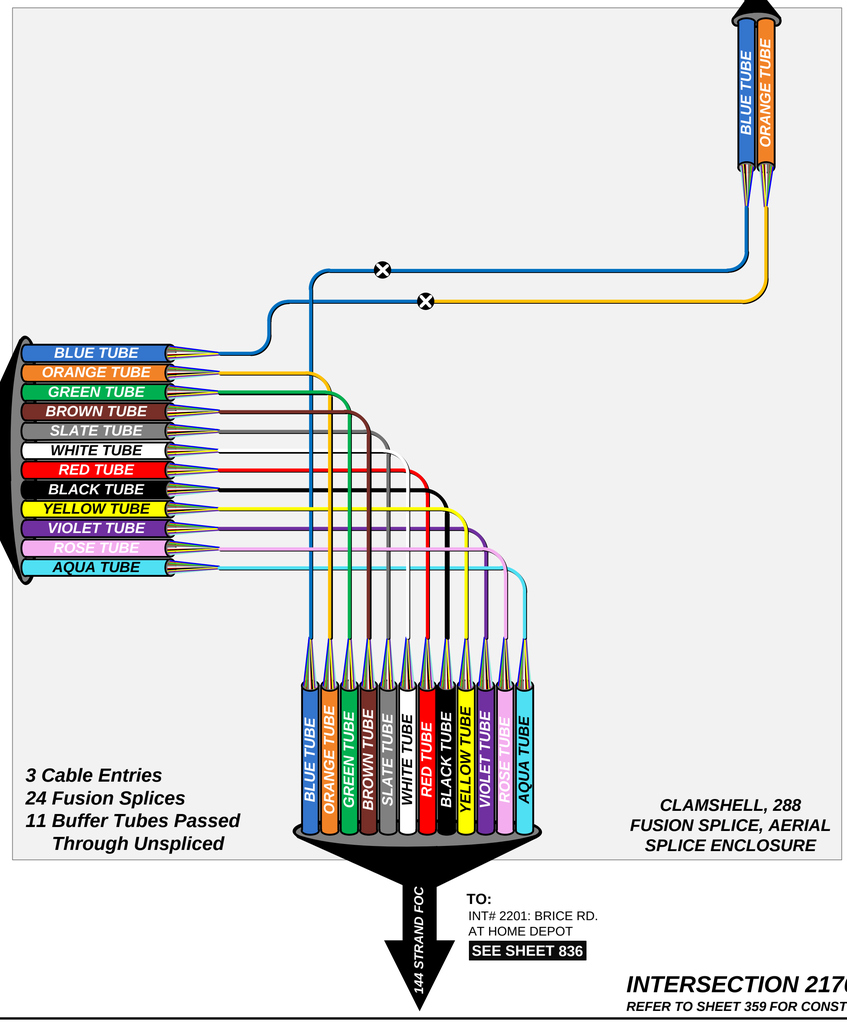
PORT 5: INT# 2171: BRICE RD. AT I-70 WB RAMPS
SEE SHEET 835

PORT 6: INT# 2168: LIVINGSTON AVE. AT LONSDALE RD.
SEE SHEET 772



PATCH PANEL ENCLOSURE – 24 TERMINATION

24 STRAND DROP



TO:
INT# 2169: BAIRSFORD DR. AT LIVINGSTON AVE.
SEE SHEET 774

3 Cable Entries
24 Fusion Splices
11 Buffer Tubes Passed Through Unspliced

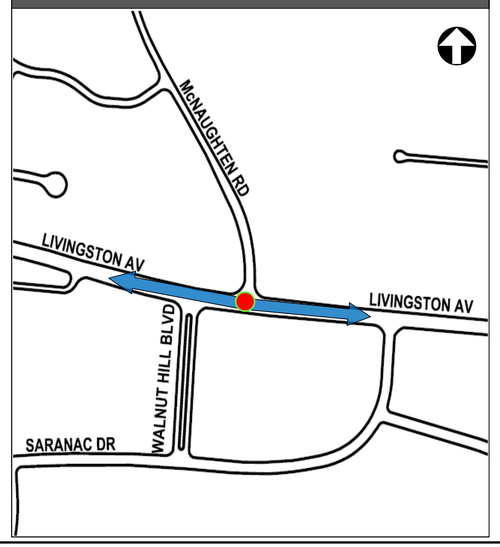
CLAMSHELL, 288 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

TO:
INT# 2201: BRICE RD. AT HOME DEPOT
SEE SHEET 836

LEGEND

- 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 – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- 288 STRAND SMF
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 2170

REFER TO SHEET 359 FOR CONSTRUCTION PLAN DETAILS

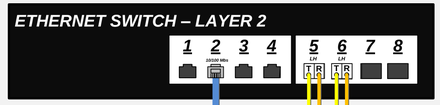
CIP: 540007 - 100005
PID NUMBER: 14522

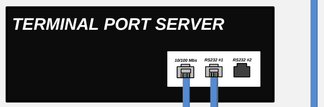
INT# 2170: LIVINGSTON AVE. AT McNAUGHTEN RD.
COMMUNICATIONS DIAGRAM

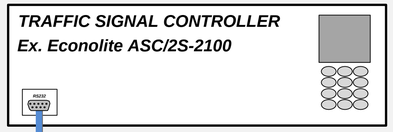
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

774-786.vsd - 2170 layout - last saved 5/2/2017 4:01:15 PM - printed: 3/11/2016 12:18:51 PM

TRAFFIC SIGNAL CABINET ASSEMBLY



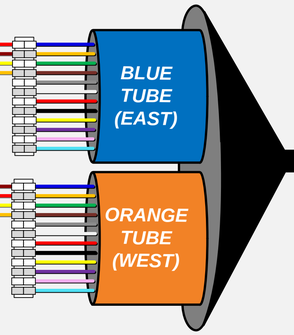


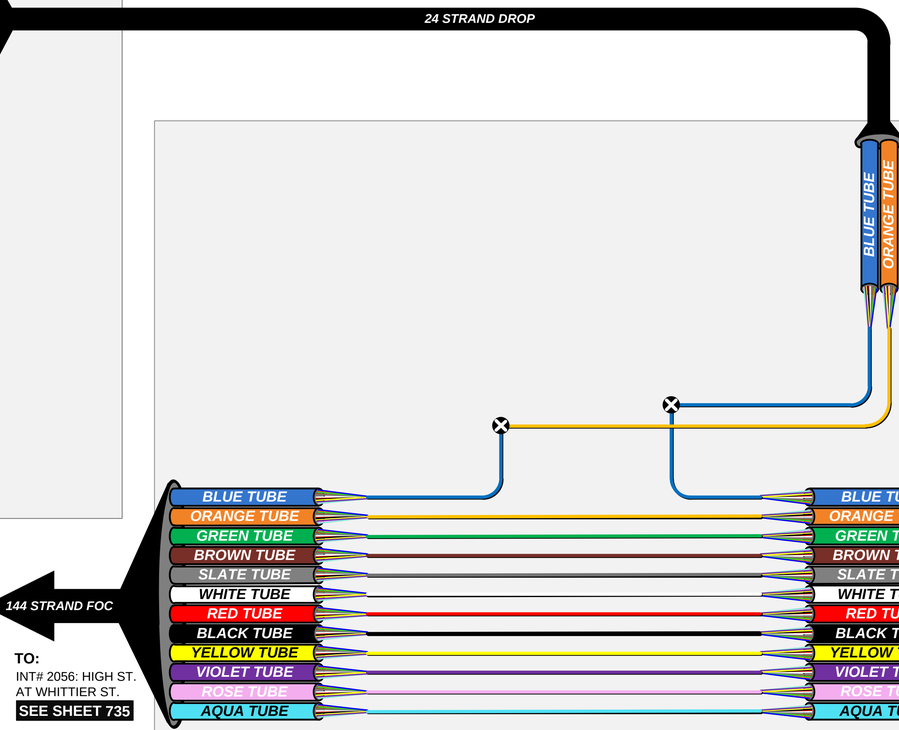


ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 2041: PARSONS AVE. AT WHITTIER ST.
SEE SHEET 778

PORT 6: INT# 2056: HIGH ST. AT WHITTIER ST.
SEE SHEET 735





3 Cable Entries
24 Fusion Splices
11 Buffer Tubes Passed Through Unspliced

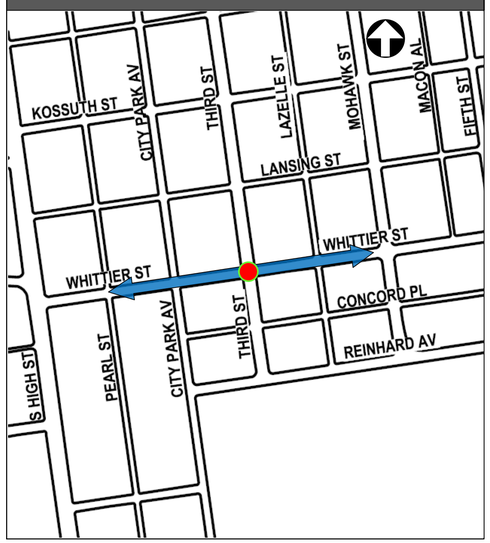
CLAMSHELL, 288 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

PATCH PANEL ENCLOSURE – 24 TERMINATION

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- *LH/ZX* GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- 288 STRAND SMF
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 2072

REFER TO SHEET 388 FOR CONSTRUCTION PLAN DETAILS

CIP: 540007 - 100005
PID NUMBER: 14522

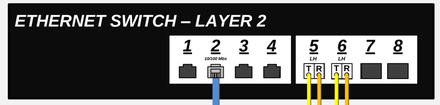
INT# 2072: THIRD ST. AT WHITTIER ST.
COMMUNICATIONS DIAGRAM

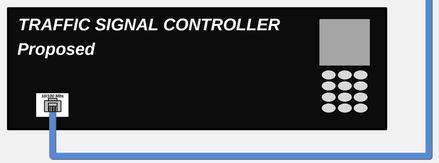
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

776
911

774-786.vsd - 2072 layout ~ last saved 5/2/2017 4:01:15 PM ~ printed: 3/11/2016 12:18:51 PM

TRAFFIC SIGNAL CABINET ASSEMBLY

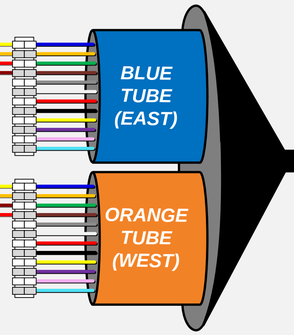


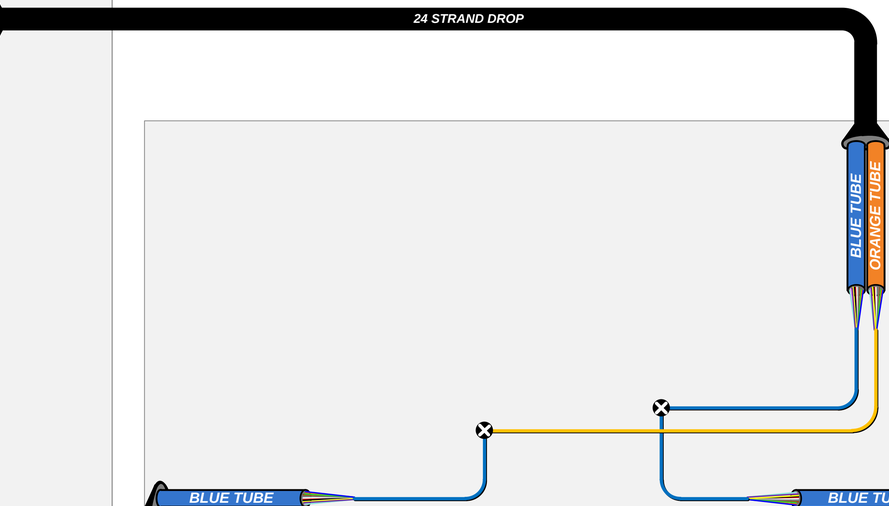


ETHERNET SWITCH PORT DESTINATION

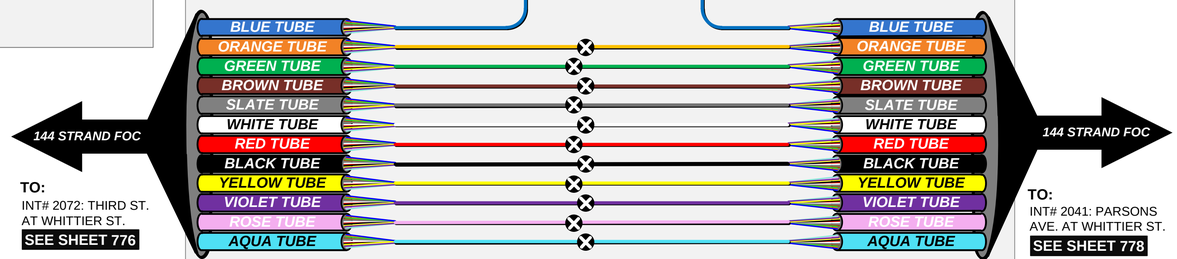
PORT 5: INT# 2122: LOCKBOURNE RD. AT WHITTIER ST.
SEE SHEET 780

PORT 6: INT# 2056: HIGH ST. AT WHITTIER ST.
SEE SHEET 735





PATCH PANEL ENCLOSURE – 24 TERMINATION



TO:
INT# 2072: THIRD ST. AT WHITTIER ST.
SEE SHEET 776

TO:
INT# 2041: PARSONS AVE. AT WHITTIER ST.
SEE SHEET 778

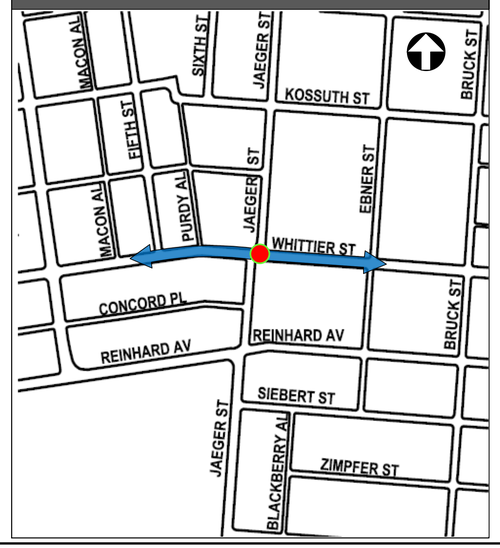
3 Cable Entries
156 Fusion Splices

CLAMSHELL, 288 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

LEGEND

- 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 – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- 288 STRAND SMF
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 2074
REFER TO SHEET 389 FOR CONSTRUCTION PLAN DETAILS

CIP: 540007 - 100005
PID NUMBER: 14522

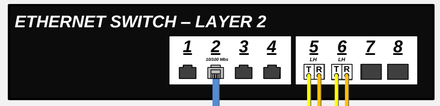
INT# 2074: JAEGER ST. AT WHITTIER ST.
COMMUNICATIONS DIAGRAM

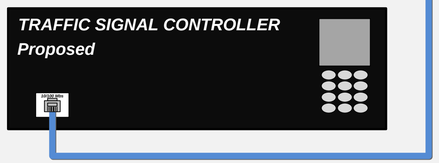
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

777
911

774-786.vsd - 2074 layout ~ last saved 5/2/2017 4:01:15 PM ~ printed: 3/11/2016 12:18:51 PM

TRAFFIC SIGNAL CABINET ASSEMBLY

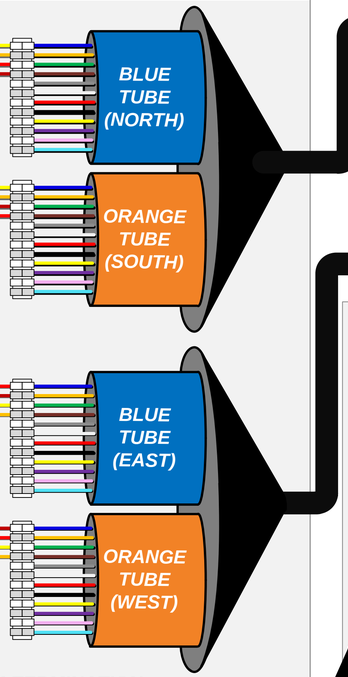




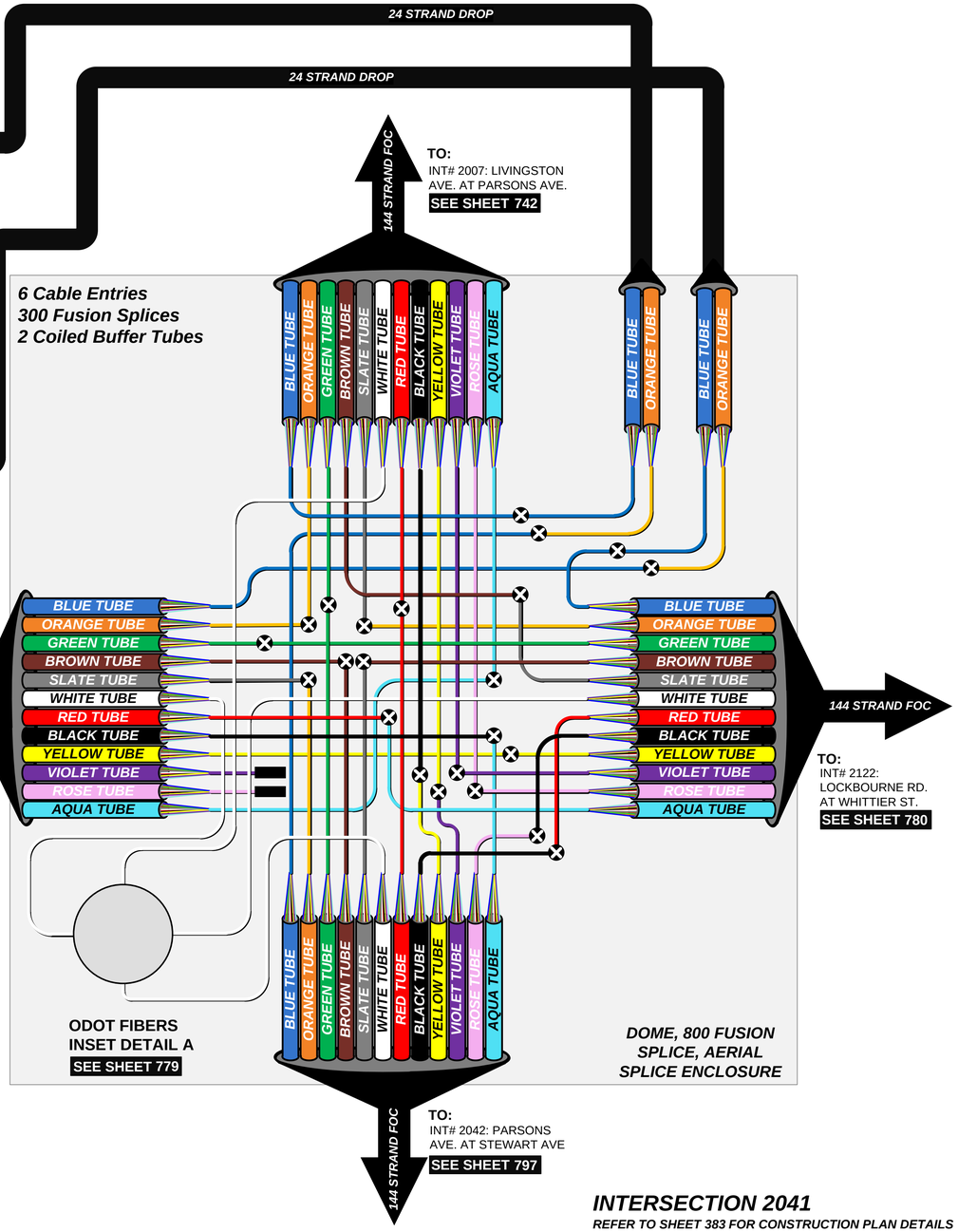
ETHERNET SWITCH PORT DESTINATION

PORT 5: TMC COMMUNICATION HUB: 77 N FRONT ST
SEE SHEET 901

PORT 6: INT# 2128: FREBIS AVE. AT LOCKBOURNE RD.
SEE SHEET 816



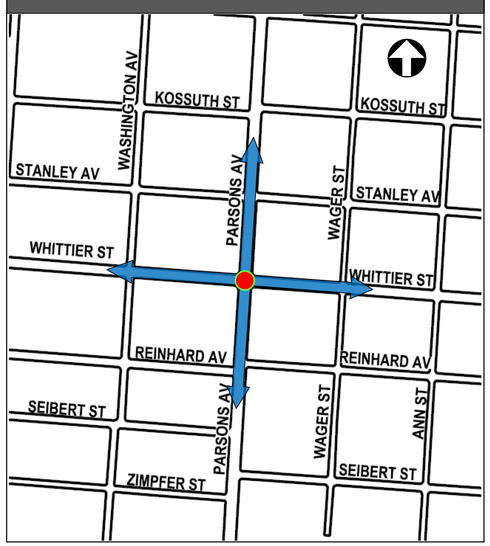
PATCH PANEL ENCLOSURES: (2) - 24 TERMINATION



LEGEND

- 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 – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 2041

REFER TO SHEET 383 FOR CONSTRUCTION PLAN DETAILS

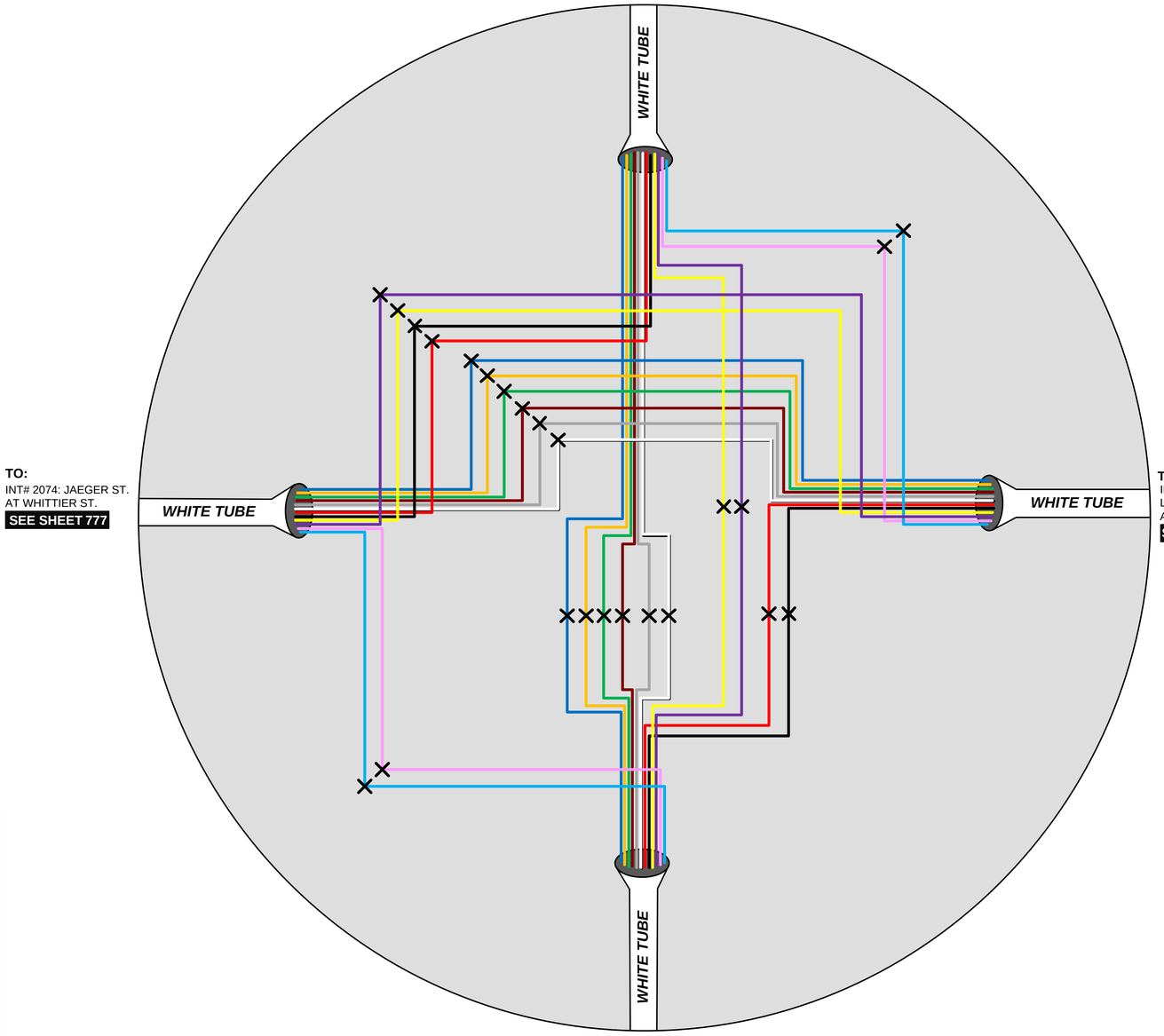
CIP: 540007 - 100005
PID NUMBER: 14522

INT# 2041: PARSONS AVE. AT WHITTIER ST.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

778
911

774-786.vsd - 2041 layout – last saved 5/2/2017 4:01:15 PM – printed: 3/11/2016 12:18:51 PM



TO:
INT# 2007: LIVINGSTON AVE. AT PARSONS AVE.
SEE SHEET 742

TO:
INT# 2074: JAEGER ST. AT WHITTIER ST.
SEE SHEET 777

TO:
INT# 2122: LOCKBOURNE RD. AT WHITTIER ST.
SEE SHEET 780

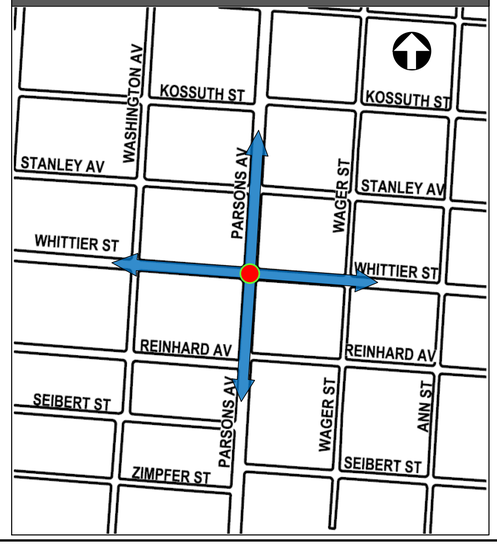
TO:
INT# 2043: PARSONS AVE. AT THURMAN AVE.
SEE SHEET 796

INSET DETAIL A
SEE SHEET 778

LEGEND

- 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 – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- *LH/ZX* (T/R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- 288 STRAND SMF
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 2041
REFER TO SHEET 383 FOR CONSTRUCTION PLAN DETAILS

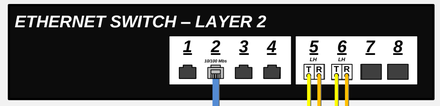
CIP: 540007 - 100005
PID NUMBER: 14522

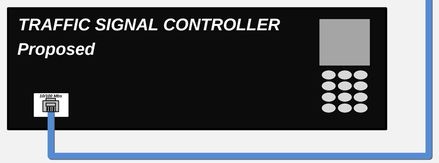
INT# 2041: PARSONS AVE. AT WHITTIER ST.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

774-786.vsd - 2041-ODOT layout ~ last saved 5/2/2017 4:01:15 PM ~ printed: 3/11/2016 12:18:51 PM

TRAFFIC SIGNAL CABINET ASSEMBLY

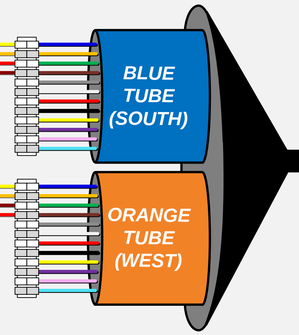




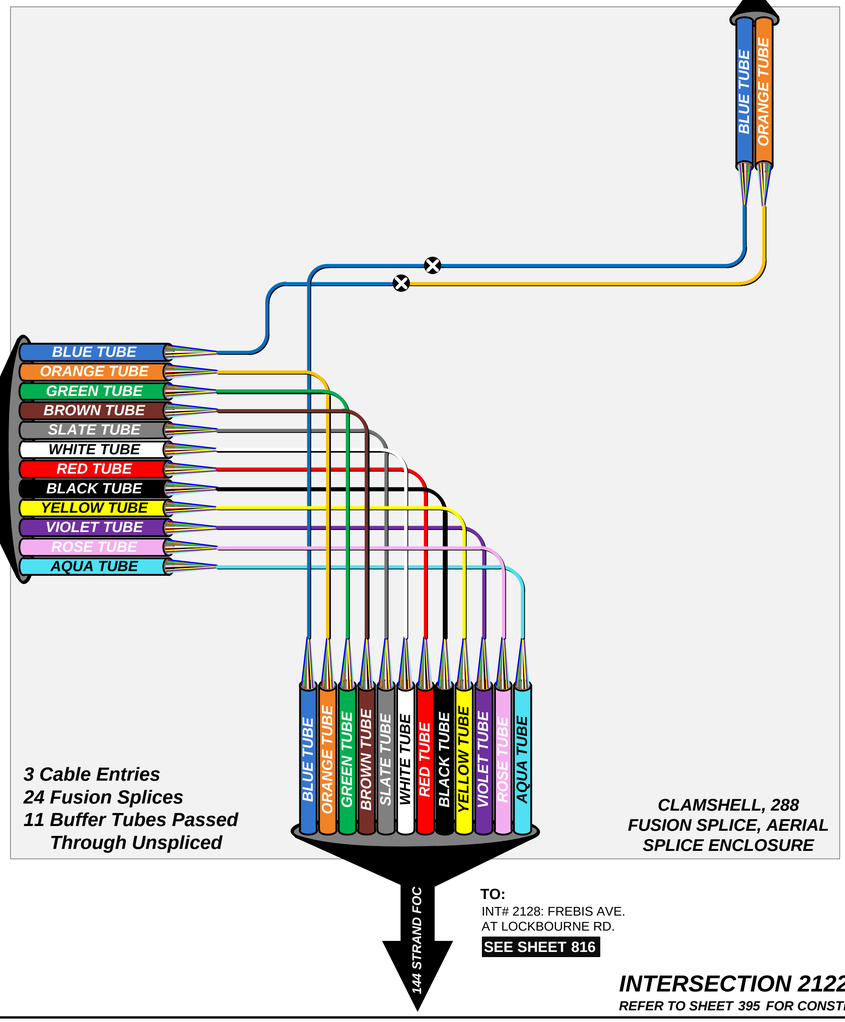
ETHERNET SWITCH PORT DESTINATION

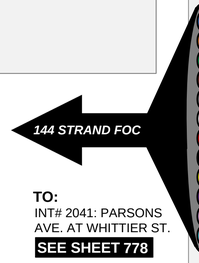
PORT 5: INT# 2133: FAIRWOOD AVE. AT FREBIS AVE.
SEE SHEET 811

PORT 6: INT# 2074: JAEGER ST. AT WHITTIER ST.
SEE SHEET 777



24 STRAND DROP



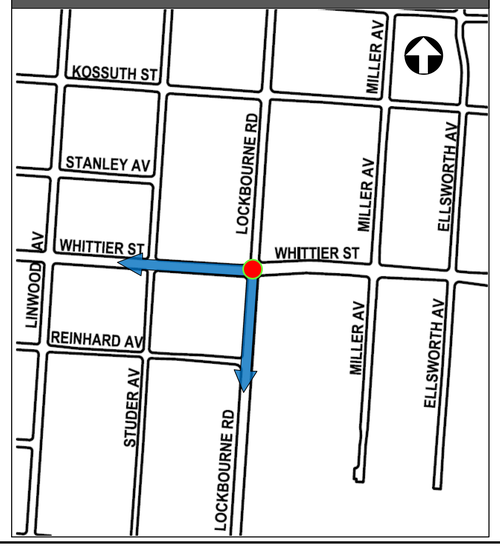


PATCH PANEL ENCLOSURE – 24 TERMINATION

LEGEND

- 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 – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- 288 STRAND SMF
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 2122

REFER TO SHEET 395 FOR CONSTRUCTION PLAN DETAILS

CIP: 540007 - 100005
PID NUMBER: 14522

INT# 2122: LOCKBOURNE RD. AT WHITTIER ST.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

780
911

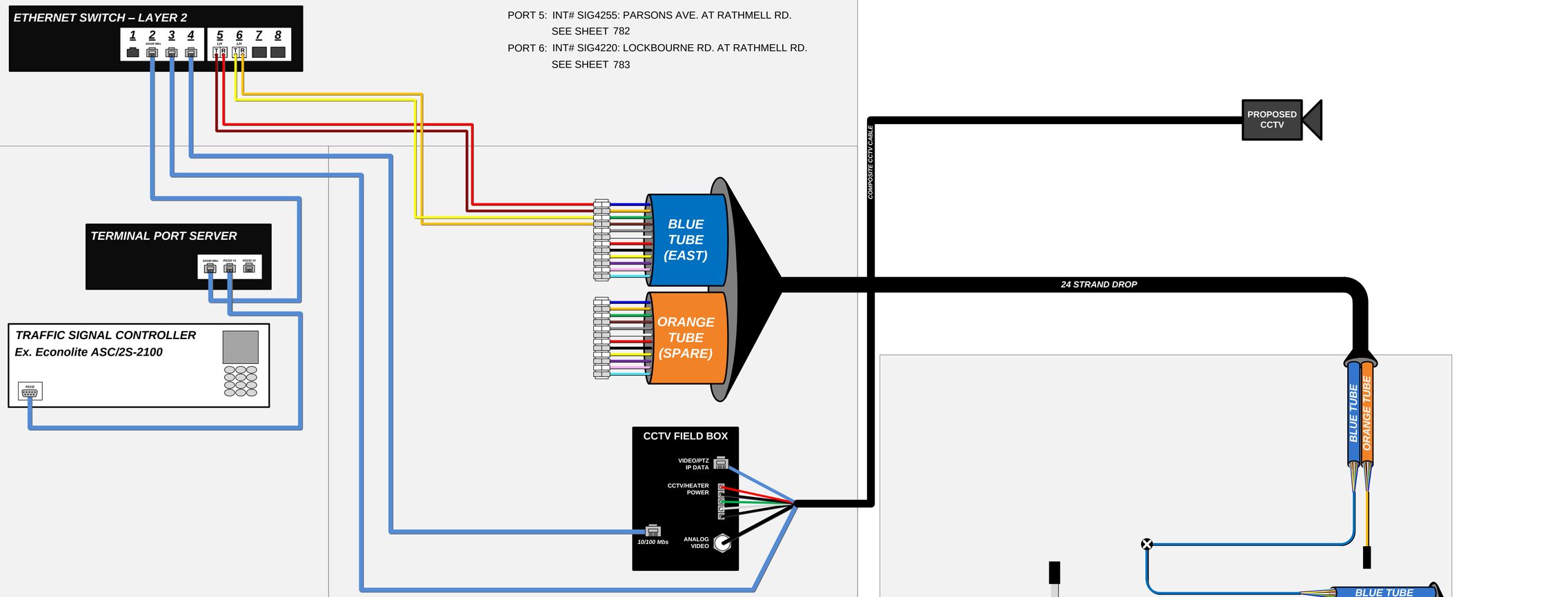
774-786.vsd - 2122 layout ~ last saved 5/2/2017 4:01:15 PM ~ printed: 3/11/2016 12:18:51 PM

TRAFFIC SIGNAL CABINET ASSEMBLY

ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# SIG4255: PARSONS AVE. AT RATHMELL RD.
SEE SHEET 782

PORT 6: INT# SIG4220: LOCKBOURNE RD. AT RATHMELL RD.
SEE SHEET 783

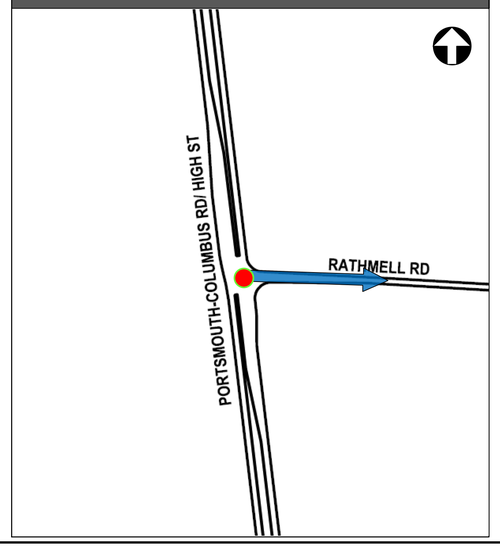


PATCH PANEL ENCLOSURE – 24 TERMINATION

LEGEND

- 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 – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- 288 STRAND SMF
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 2182

REFER TO SHEET 422 FOR CONSTRUCTION PLAN DETAILS

CIP: 540007 - 100005
PID NUMBER: 14522

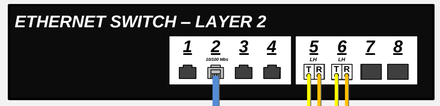
INT# 2182: HIGH ST. AT RATHMELL RD.
COMMUNICATIONS DIAGRAM

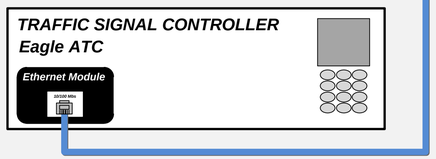
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

781
911

774-786.vsd - 2182 layout ~ last saved 5/2/2017 4:01:15 PM ~ printed: 3/11/2016 12:18:51 PM

TRAFFIC SIGNAL CABINET ASSEMBLY

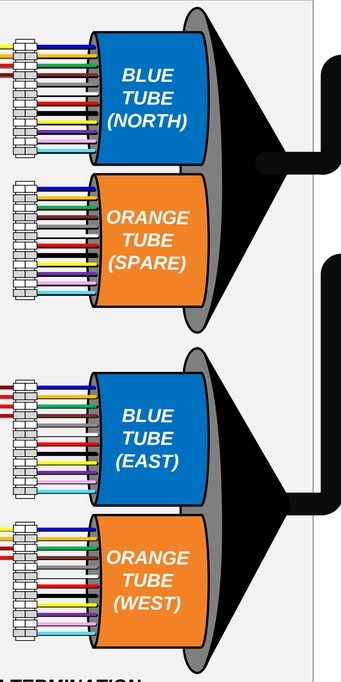




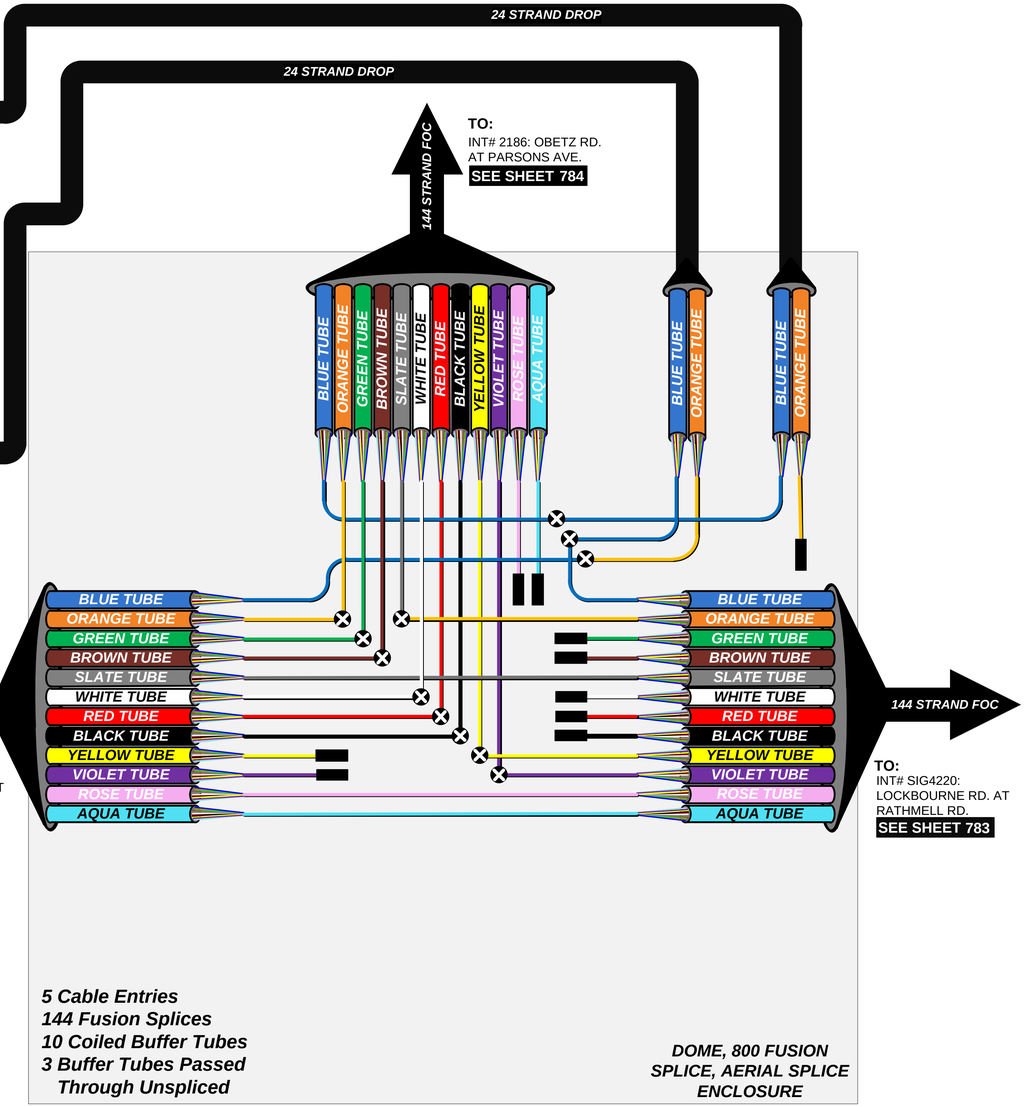
ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 2083: PARSONS AVE. AT WILLIAMS RD.
SEE SHEET 785

PORT 6: INT# 2182: HIGH ST. AT RATHMELL RD.
SEE SHEET 781



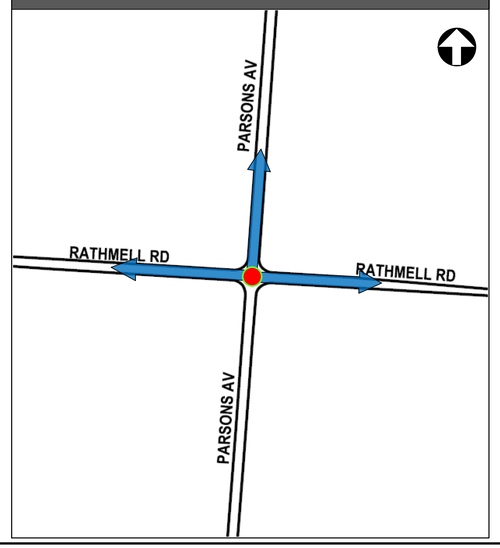
PATCH PANEL ENCLOSURES: (2) - 24 TERMINATION



LEGEND

- 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 – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX — GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- 288 STRAND SMF
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION SIG4255

REFER TO SHEET 425 FOR CONSTRUCTION PLAN DETAILS

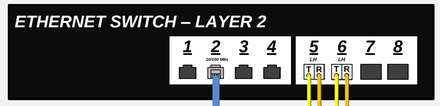
CIP: 540007 - 100005
PID NUMBER: 14522

INT# SIG4255: PARSONS AVE. AT RATHMELL RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

774-786.vsd - SIG4255 layout ~ last saved 5/2/2017 4:01:15 PM ~ printed: 3/11/2016 12:18:51 PM

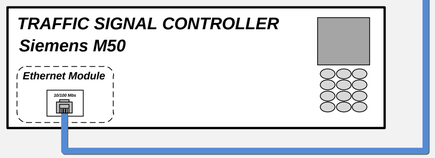
TRAFFIC SIGNAL CABINET ASSEMBLY

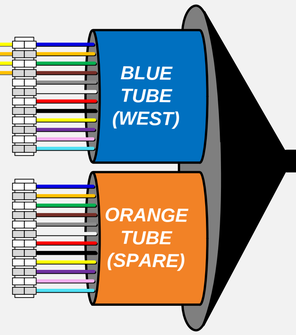


ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 2186: OBETZ RD. AT PARSONS AVE.
SEE SHEET 784

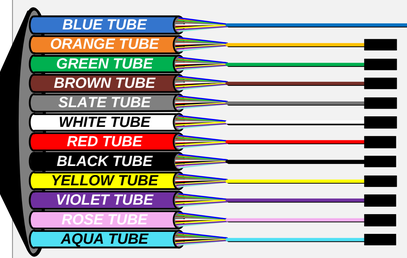
PORT 6: INT# 2182: HIGH ST. AT RATHMELL RD.
SEE SHEET 781





24 STRAND DROP





TO:
INT# SIG4255:
PARSONS AVE. AT
RATHMELL RD.
SEE SHEET 782

2 Cable Entries
12 Fusion Splices
12 Coiled Buffer Tubes

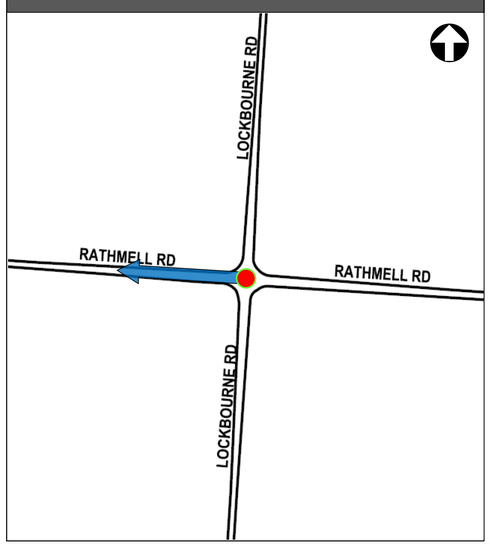
CLAMSHELL, 288
FUSION SPLICE, AERIAL
SPLICE ENCLOSURE

PATCH PANEL ENCLOSURE – 24 TERMINATION

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- 288 STRAND SMF
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION SIG4220
REFER TO SHEET 429 FOR CONSTRUCTION PLAN DETAILS

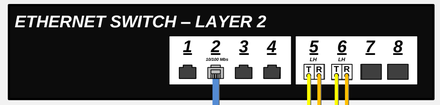
CIP: 540007 - 100005
PID NUMBER: 14522

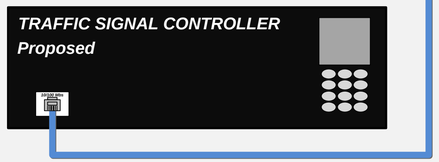
INT# SIG4220: LOCKBOURNE RD. AT RATHMELL RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

774-786.vsd - SIG4220 layout – last saved 5/2/2017 4:01:15 PM – printed: 3/11/2016 12:18:51 PM

TRAFFIC SIGNAL CABINET ASSEMBLY

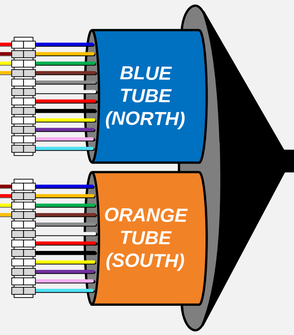




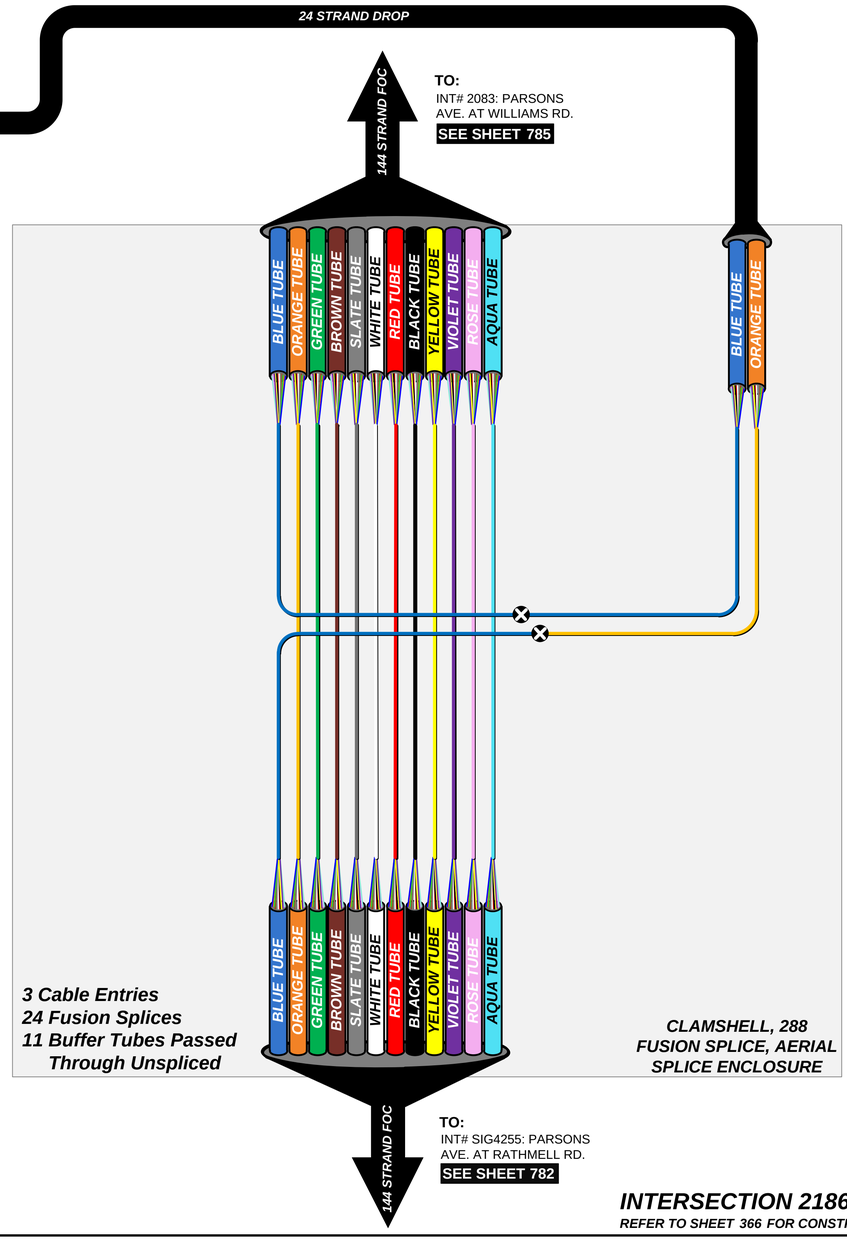
ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 2080: DERING AVE. AT PARSONS AVE.
SEE SHEET 788

PORT 6: INT# SIG4220: LOCKBOURNE RD. AT RATHMELL RD.
SEE SHEET 783



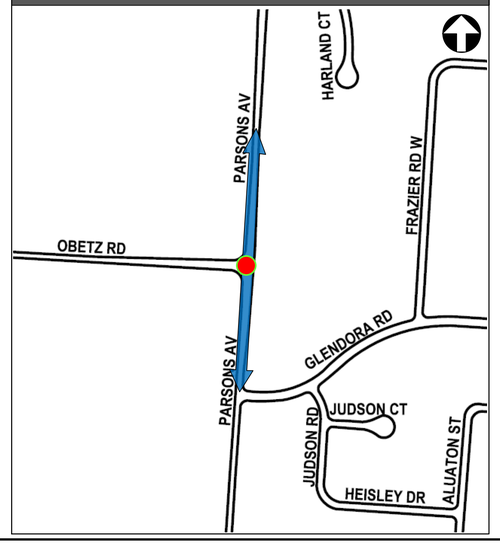
PATCH PANEL ENCLOSURE – 24 TERMINATION



LEGEND

- 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 – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- 288 STRAND SMF
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 2186

REFER TO SHEET 366 FOR CONSTRUCTION PLAN DETAILS

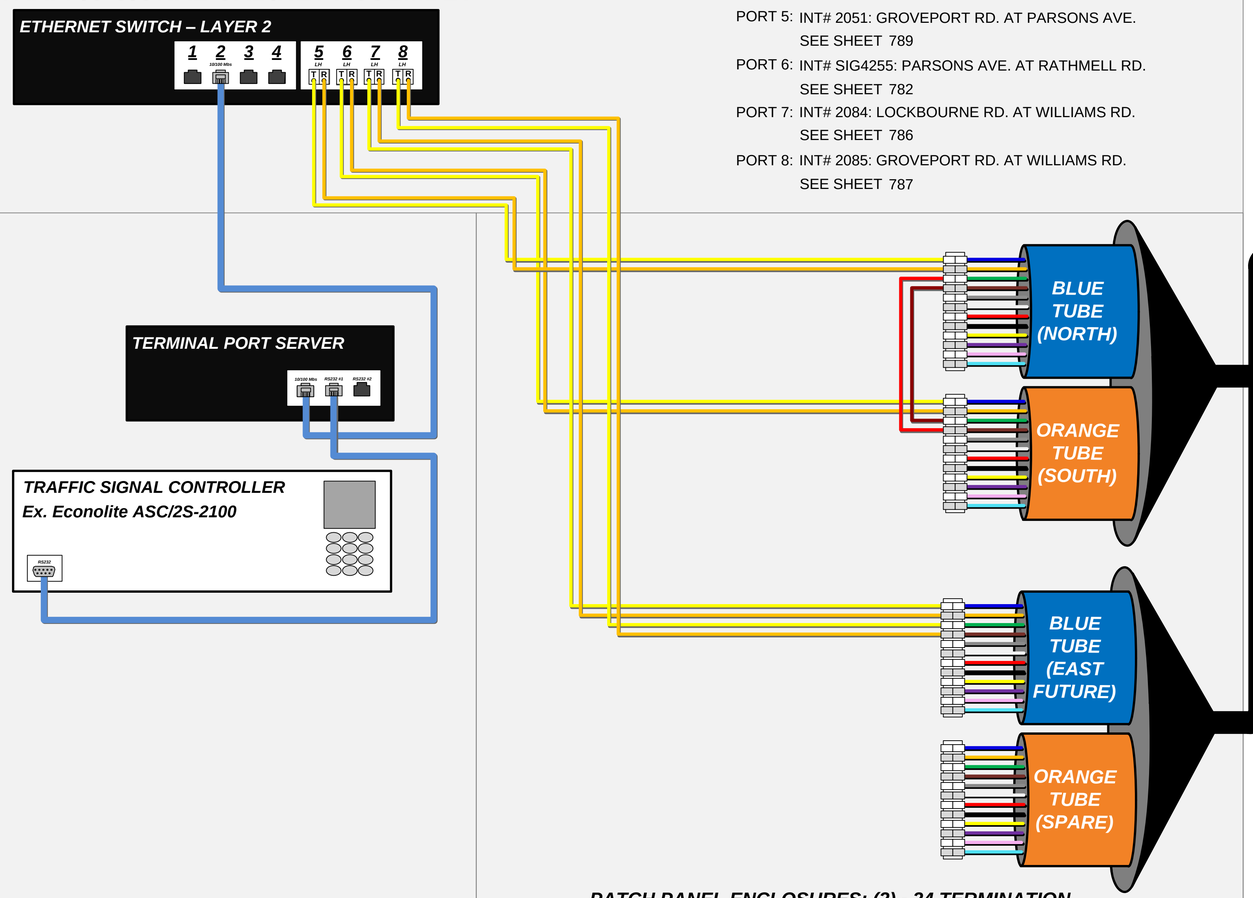
CIP: 540007 - 100005
PID NUMBER: 14522

INT# 2186: OBETZ RD. AT PARSONS AVE.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

774-786.vsd - 2186 layout ~ last saved 5/2/2017 4:01:15 PM ~ printed: 3/11/2016 12:18:51 PM

TRAFFIC SIGNAL CABINET ASSEMBLY



PATCH PANEL ENCLOSURES: (2) - 24 TERMINATION

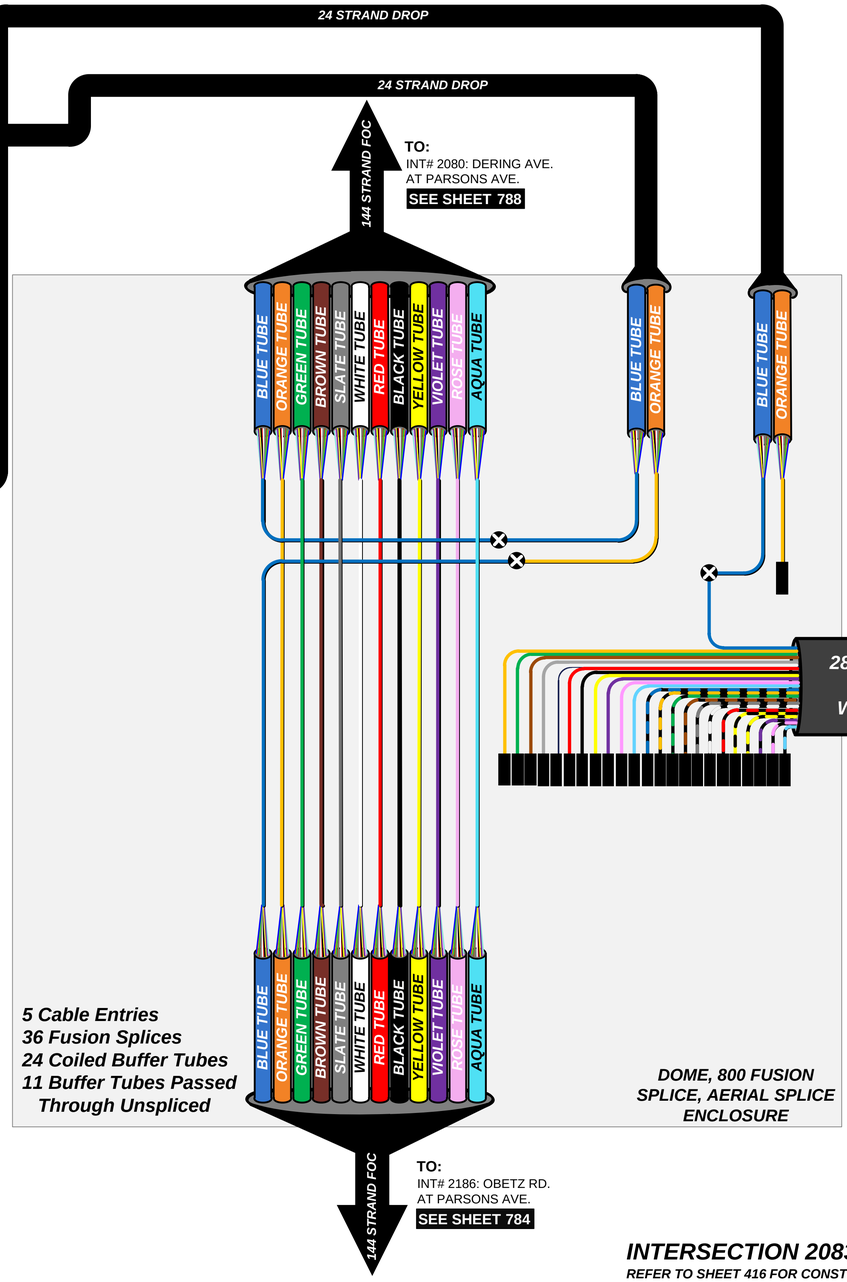
ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 2051: GROVEPORT RD. AT PARSONS AVE.
SEE SHEET 789

PORT 6: INT# SIG4255: PARSONS AVE. AT RATHMELL RD.
SEE SHEET 782

PORT 7: INT# 2084: LOCKBOURNE RD. AT WILLIAMS RD.
SEE SHEET 786

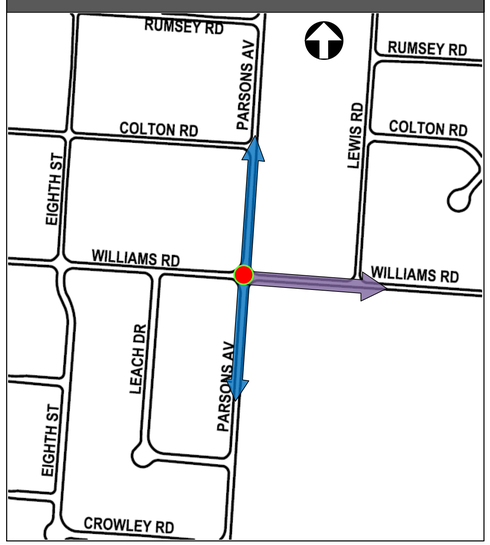
PORT 8: INT# 2085: GROVEPORT RD. AT WILLIAMS RD.
SEE SHEET 787



LEGEND

- 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 – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- 288 STRAND SMF
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 2083

REFER TO SHEET 416 FOR CONSTRUCTION PLAN DETAILS

CIP: 540007 - 100005
PID NUMBER: 14522

INT# 2083: PARSONS AVE. AT WILLIAMS RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

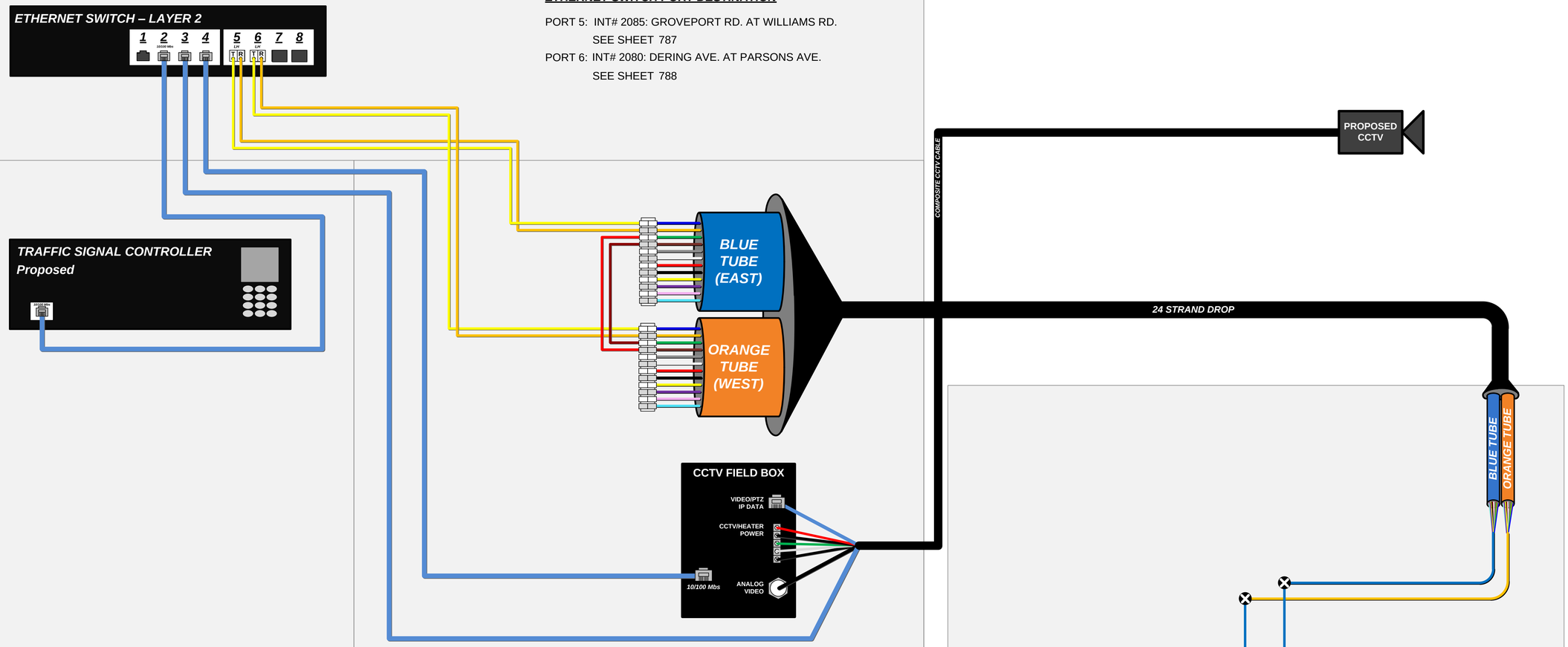
774-786.vsd - 2083 layout ~ last saved 5/2/2017 4:01:15 PM ~ printed: 3/11/2016 12:18:51 PM

TRAFFIC SIGNAL CABINET ASSEMBLY

ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 2085: GROVEPORT RD. AT WILLIAMS RD.
SEE SHEET 787

PORT 6: INT# 2080: DERING AVE. AT PARSONS AVE.
SEE SHEET 788



PATCH PANEL ENCLOSURE – 24 TERMINATION

TO:
INT# 2083: PARSONS AVE. AT WILLIAMS RD.
SEE SHEET 785

TO:
INT# 2085: GROVEPORT RD. AT WILLIAMS RD.
SEE SHEET 787

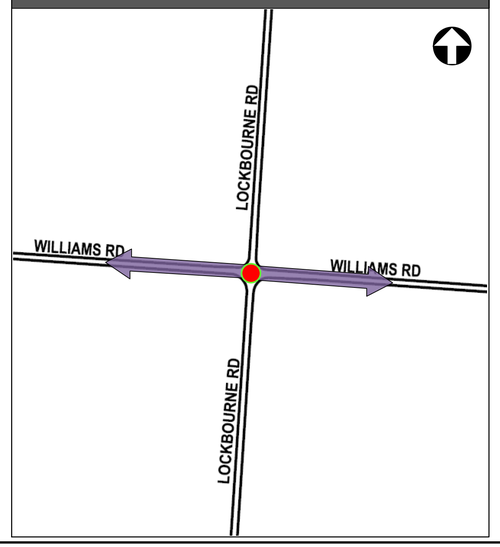
3 Cable Entries
24 Fusion Splices
23 Buffer Tubes Passed Through Unspliced

CLAMSHELL, 288 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- *LH/ZX* GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- 288 STRAND SMF
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 2084
REFER TO SHEET 419 FOR CONSTRUCTION PLAN DETAILS

CIP: 540007 - 100005
PID NUMBER: 14522

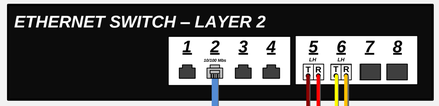
INT# 2084: LOCKBOURNE RD. AT WILLIAMS RD.
COMMUNICATIONS DIAGRAM

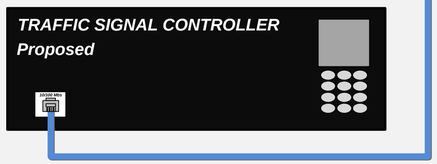
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

786
911

774-786.vsd - 2084 layout ~ last saved 5/2/2017 4:01:15 PM ~ printed: 3/11/2016 12:18:51 PM

TRAFFIC SIGNAL CABINET ASSEMBLY

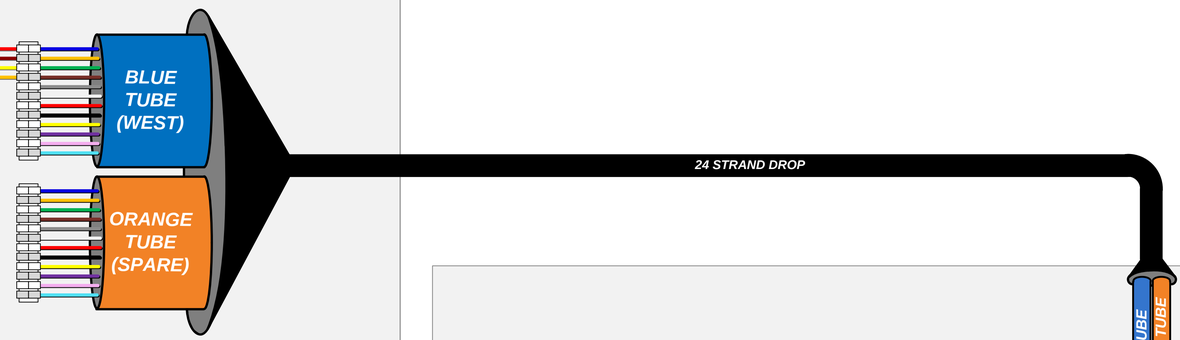




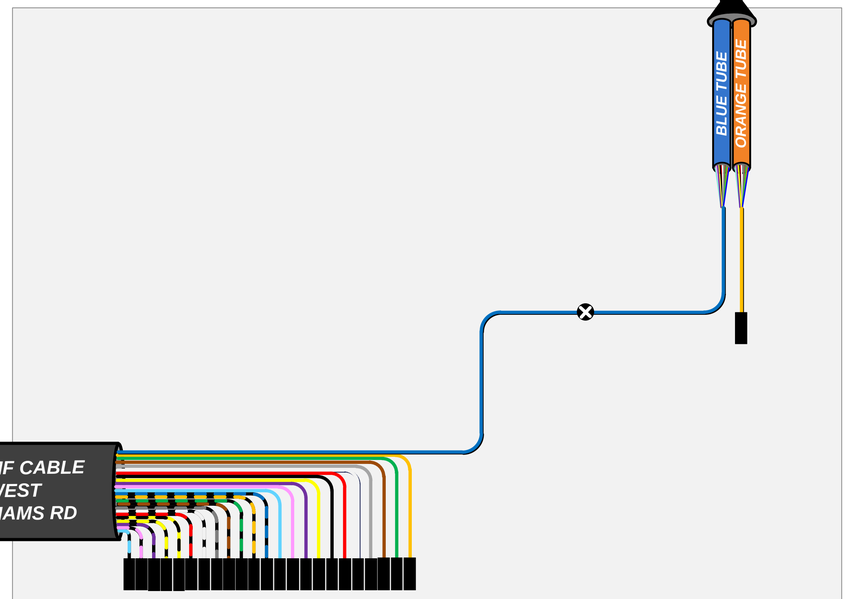
ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 2084: LOCKBOURNE RD. AT WILLIAMS RD.
SEE SHEET 786

PORT 6: INT# 2186: OBETZ RD. AT PARSONS AVE.
SEE SHEET 784



PATCH PANEL ENCLOSURE – 24 TERMINATION



TO:
INT# 2084:
LOCKBOURNE RD.
AT WILLIAMS RD.
SEE SHEET 786

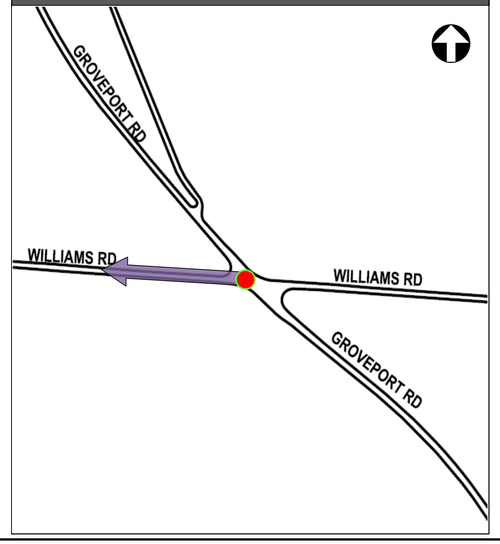
2 Cable Entries
12 Fusion Splices
24 Coiled Buffer Tubes

CLAMSHELL, 288 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

LEGEND

- 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 – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- 288 STRAND SMF
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 2085
REFER TO SHEET 420 FOR CONSTRUCTION PLAN DETAILS

CIP: 540007 - 100005
PID NUMBER: 14522

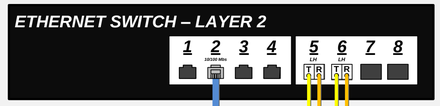
INT# 2085: GROVEPORT RD. AT WILLIAMS RD.
COMMUNICATIONS DIAGRAM

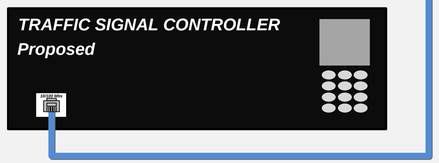
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

787
911

787-797.vsd - 2085 layout ~ last saved 5/2/2017 4:02:48 PM ~ printed: 3/11/2016 12:22:13 PM

TRAFFIC SIGNAL CABINET ASSEMBLY

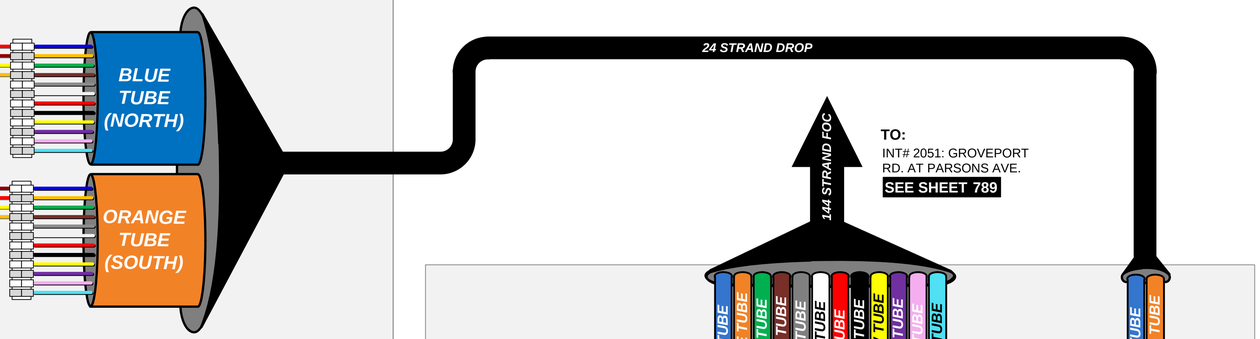




ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 2049: BARTHMAN AVE. AT PARSONS AVE.
SEE SHEET 790

PORT 6: INT# 2186: OBETZ RD. AT PARSONS AVE.
SEE SHEET 784

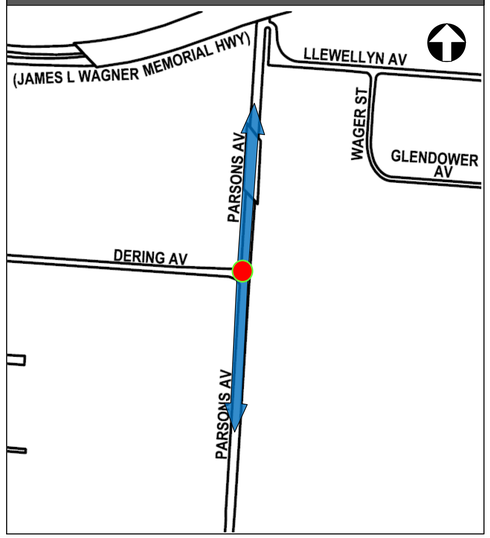


PATCH PANEL ENCLOSURE – 24 TERMINATION

LEGEND

- 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 – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- 288 STRAND SMF
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 2080

REFER TO SHEET 372 FOR CONSTRUCTION PLAN DETAILS

CIP: 540007 - 100005
PID NUMBER: 14522

INT# 2080: DERING AVE. AT PARSONS AVE.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

788
911

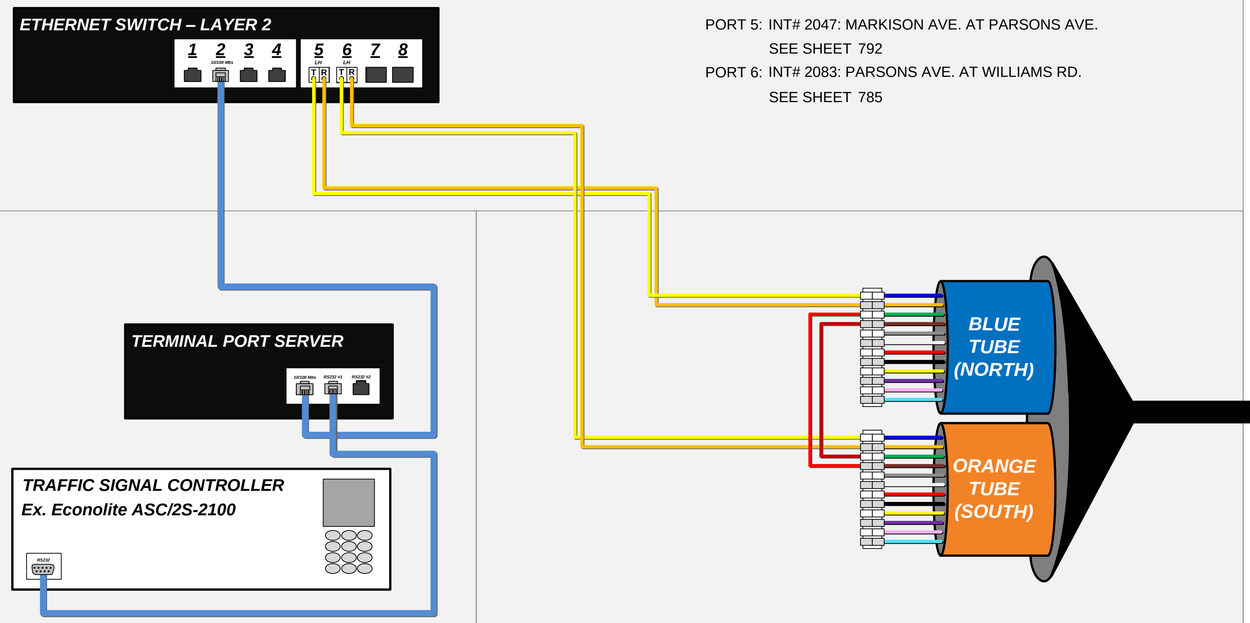
787-797.vsd - 2080 layout - last saved 5/2/2017 4:02:48 PM - printed: 3/11/2016 12:22:13 PM

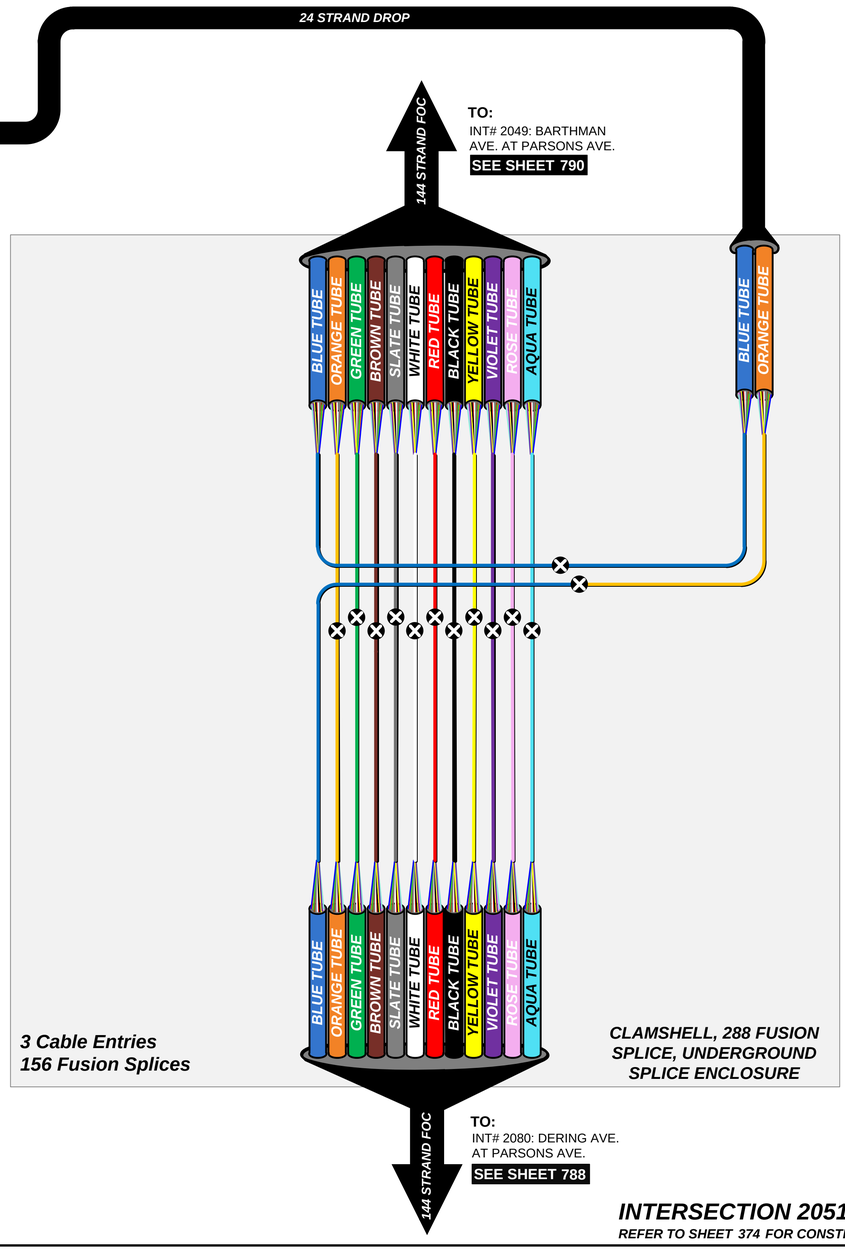
TRAFFIC SIGNAL CABINET ASSEMBLY

ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 2047: MARKISON AVE. AT PARSONS AVE.
SEE SHEET 792

PORT 6: INT# 2083: PARSONS AVE. AT WILLIAMS RD.
SEE SHEET 785

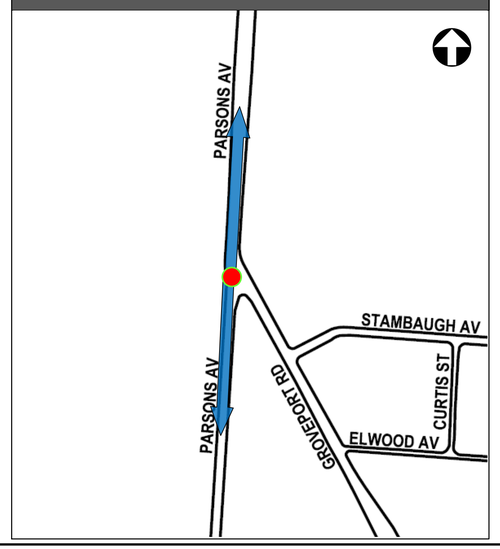




LEGEND

- 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 – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- 288 STRAND SMF
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 2051

REFER TO SHEET 374 FOR CONSTRUCTION PLAN DETAILS

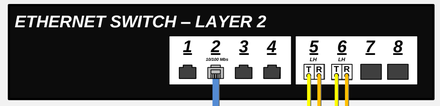
CIP: 540007 - 100005
PID NUMBER: 14522

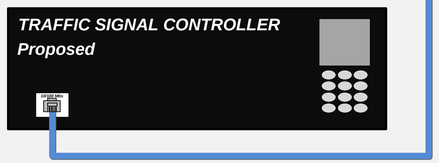
INT# 2051: GROVEPORT RD. AT PARSONS AVE.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

787-797.vsd - 2051 layout - last saved 5/2/2017 4:02:48 PM - printed: 3/11/2016 12:22:13 PM

TRAFFIC SIGNAL CABINET ASSEMBLY

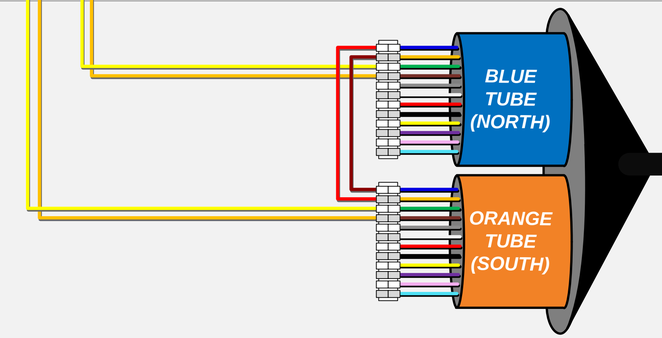




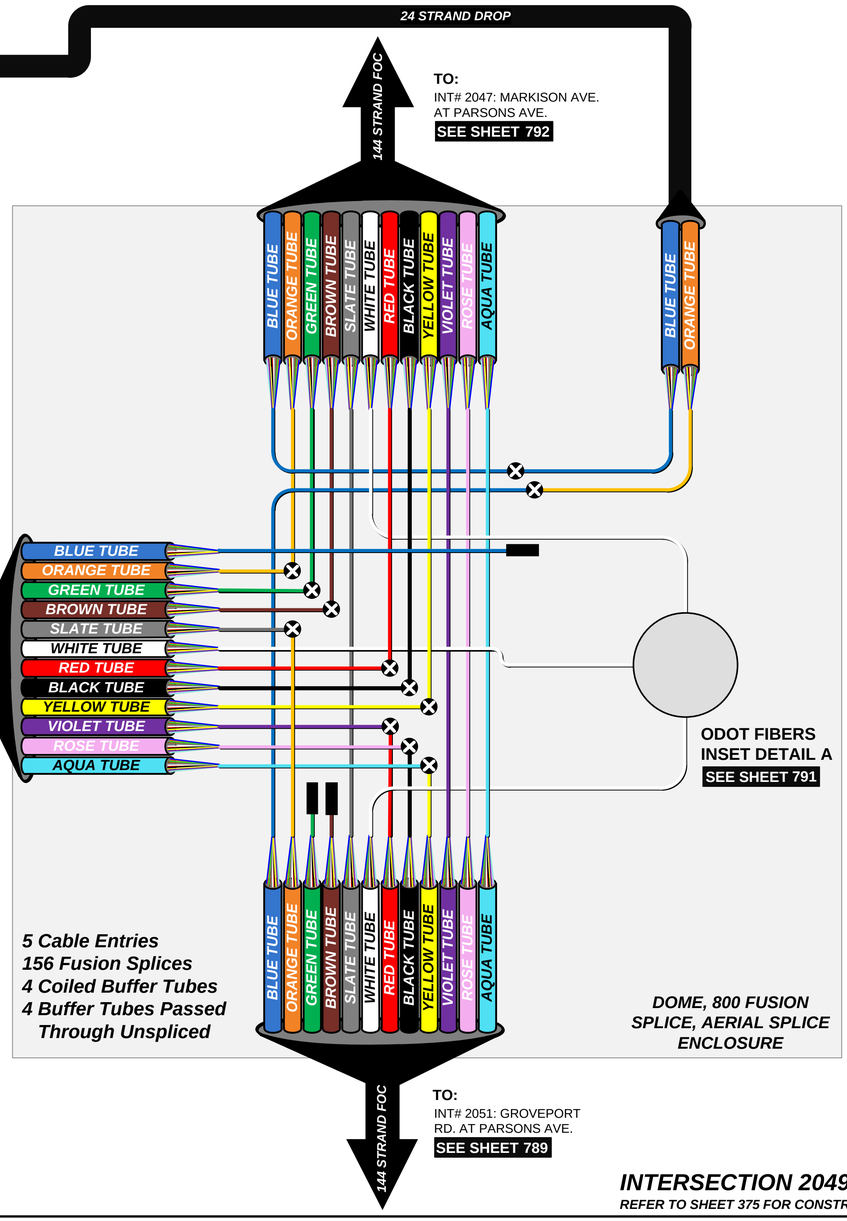
ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 2046: JENKINS AVE. AT PARSONS AVE.
SEE SHEET 793

PORT 6: INT# 2080: DERING AVE. AT PARSONS AVE.
SEE SHEET 788



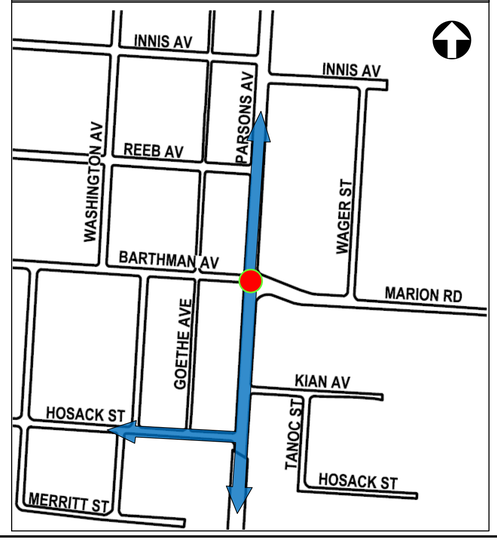
PATCH PANEL ENCLOSURES - 24 TERMINATION



LEGEND

- 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 – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 2049

REFER TO SHEET 375 FOR CONSTRUCTION PLAN DETAILS

CIP: 540007 - 100005
PID NUMBER: 14522

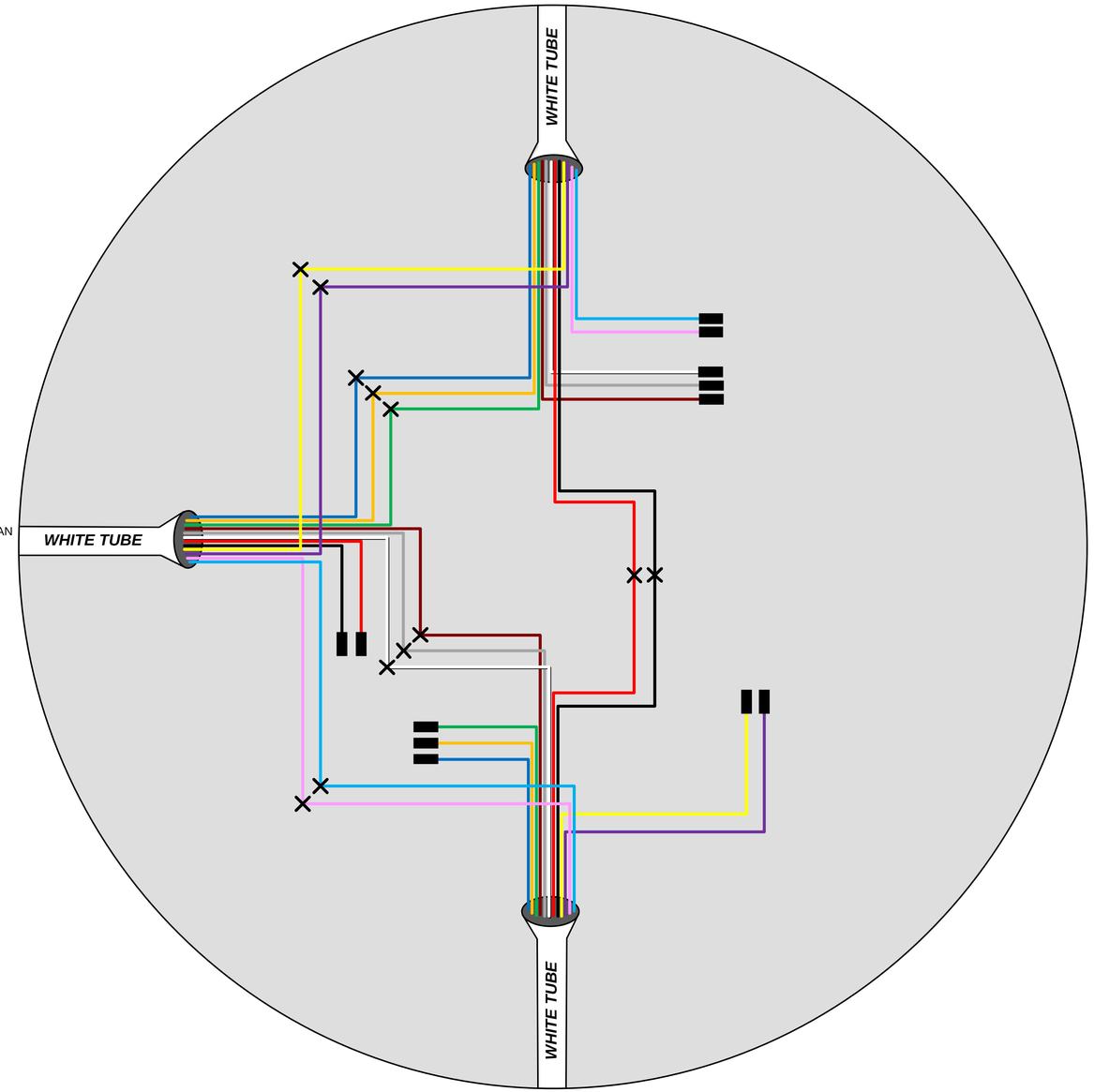
INT# 2049: BARTHMAN AVE. AT PARSONS AVE.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

787-797.vsd - 2049 layout - last saved 5/2/2017 4:02:48 PM - printed: 3/11/2016 12:22:13 PM

TO:
INT# 2047: MARKISON AVE.
AT PARSONS AVE.
SEE SHEET 792

TO:
INT# 2061: BARTHMAN
AVE. AT HIGH ST.
SEE SHEET 807



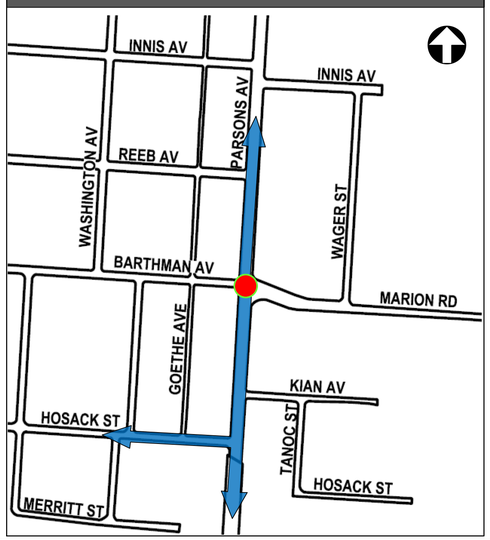
TO:
INT# 2051: GROVEPORT
RD. AT PARSONS AVE.
SEE SHEET 789

INSET DETAIL A
SEE SHEET 790

LEGEND

- 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 – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX (T/R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- 288 STRAND SMF
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 2049
REFER TO SHEET 375 FOR CONSTRUCTION PLAN DETAILS

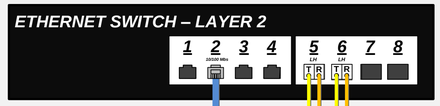
CIP: 540007 - 100005
PID NUMBER: 14522

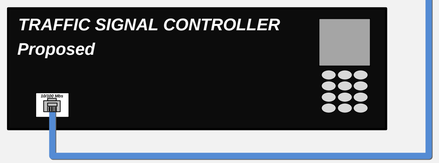
INT# 2049: BARTHMAN AVE. AT PARSONS AVE.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

787-797.vsd - 2049-ODOT layout – last saved 5/2/2017 4:02:48 PM – printed: 3/11/2016 12:22:13 PM

TRAFFIC SIGNAL CABINET ASSEMBLY

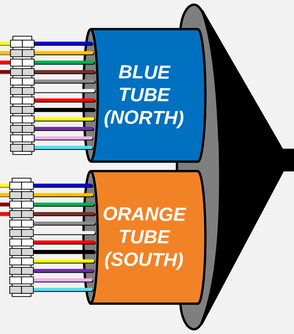




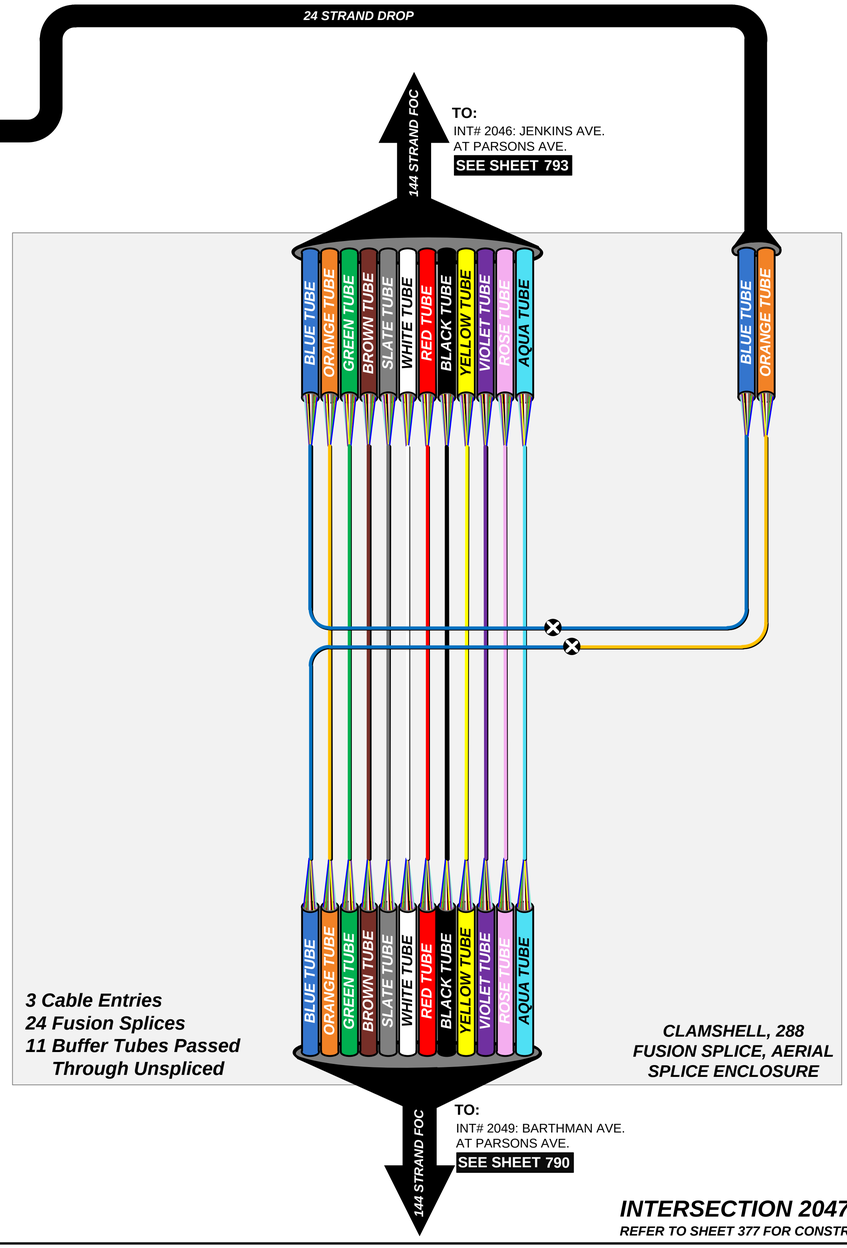
ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 2057: PARSONS AVE. AT SHELDON AVE.
SEE SHEET 794

PORT 6: INT# 2051: GROVEPORT RD. AT PARSONS AVE.
SEE SHEET 789



PATCH PANEL ENCLOSURE – 24 TERMINATION



LEGEND

- 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 – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX — GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- 288 STRAND SMF
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 2047

REFER TO SHEET 377 FOR CONSTRUCTION PLAN DETAILS

CIP: 540007 - 100005
PID NUMBER: 14522

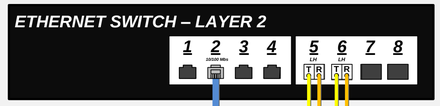
INT# 2047: MARKISON AVE. AT PARSONS AVE.
COMMUNICATIONS DIAGRAM

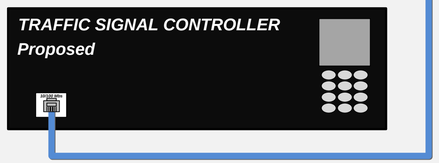
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

792
911

787-797.vsd - 2047 layout ~ last saved 5/2/2017 4:02:48 PM ~ printed: 3/11/2016 12:22:13 PM

TRAFFIC SIGNAL CABINET ASSEMBLY

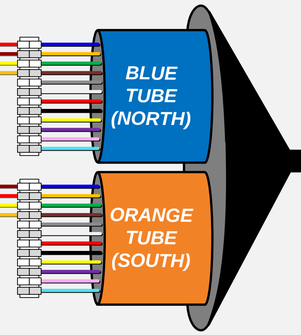


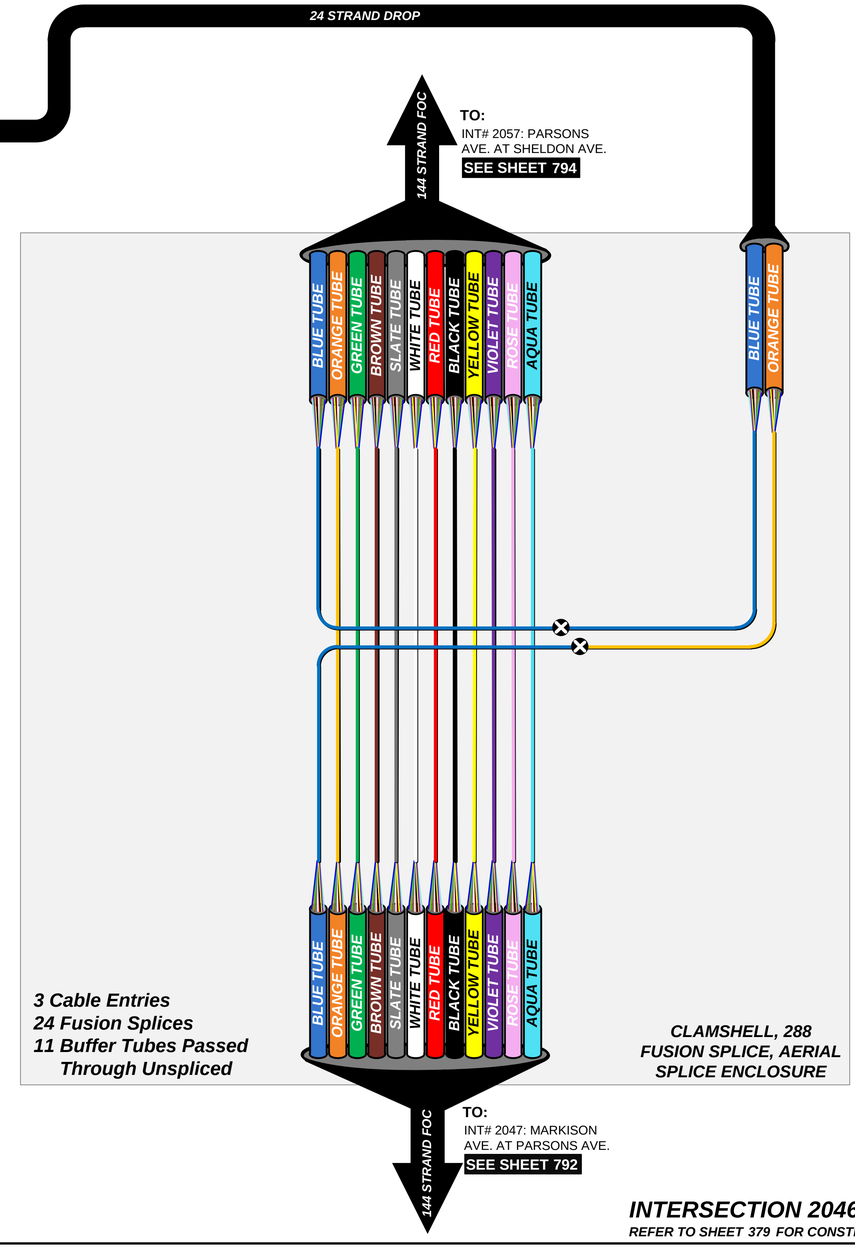


ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 2045: FREBIS AVE. AT PARSONS AVE.
SEE SHEET 795

PORT 6: INT# 2049: BARTHMAN AVE. AT PARSONS AVE.
SEE SHEET 790





PATCH PANEL ENCLOSURE – 24 TERMINATION

LEGEND

- 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 – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- 288 STRAND SMF
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 2046

REFER TO SHEET 379 FOR CONSTRUCTION PLAN DETAILS

CIP: 540007 - 100005
PID NUMBER: 14522

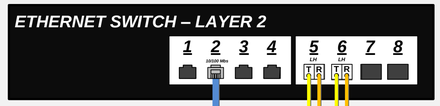
INT# 2046: JENKINS AVE. AT PARSONS AVE.
COMMUNICATIONS DIAGRAM

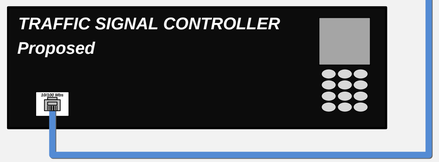
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

793
911

787-797.vsd - 2046 layout - last saved 5/2/2017 4:02:48 PM - printed: 3/11/2016 12:22:13 PM

TRAFFIC SIGNAL CABINET ASSEMBLY

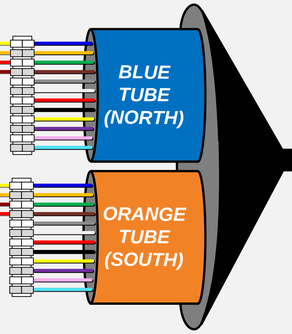




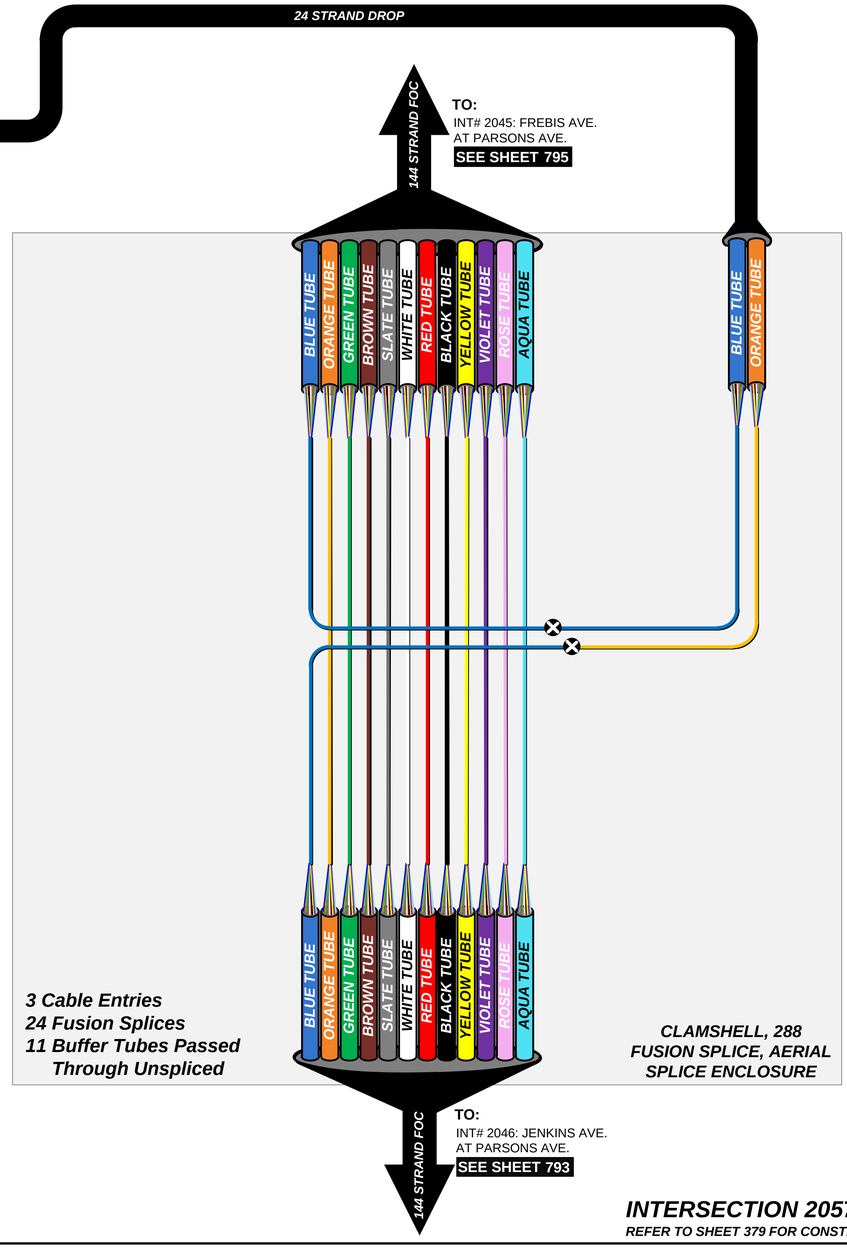
ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 2043: PARSONS AVE. AT THURMAN AVE.
SEE SHEET 796

PORT 6: INT# 2047: MARKISON AVE. AT PARSONS AVE.
SEE SHEET 792



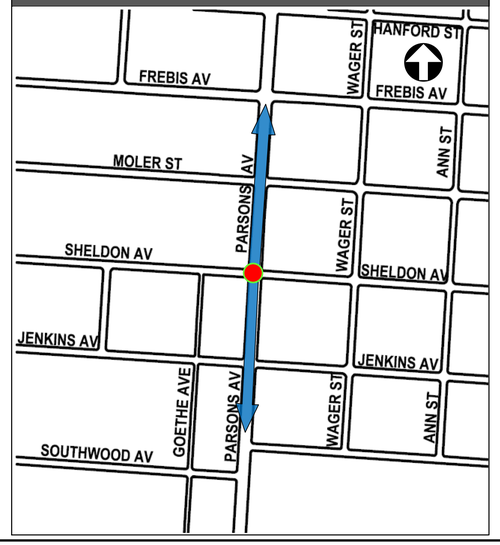
PATCH PANEL ENCLOSURE – 24 TERMINATION



LEGEND

- 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 – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- 288 STRAND SMF
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 2057

REFER TO SHEET 379 FOR CONSTRUCTION PLAN DETAILS

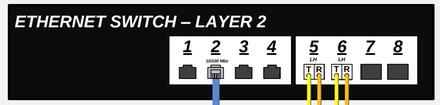
CIP: 540007 - 100005
PID NUMBER: 14522

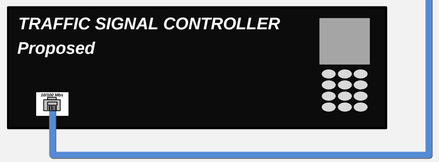
INT# 2057: PARSONS AVE. AT SHELDON AVE.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

787-797.vsd - 2057 layout - last saved 5/2/2017 4:02:48 PM - printed: 3/11/2016 12:22:13 PM

TRAFFIC SIGNAL CABINET ASSEMBLY

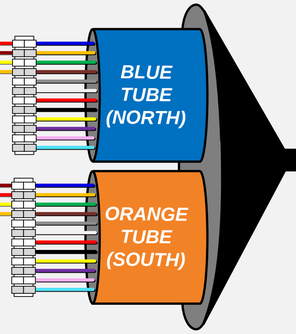




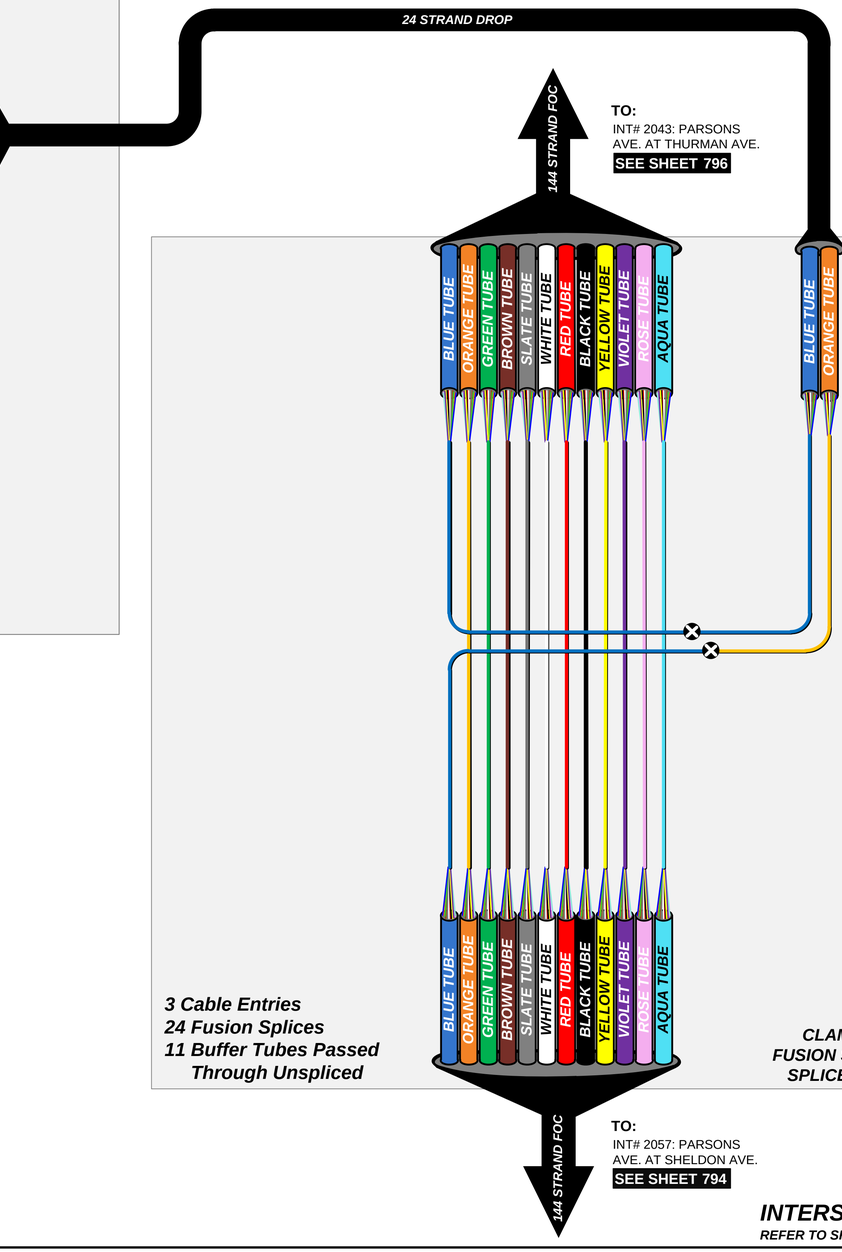
ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 2042: PARSONS AVE. AT STEWART AVE
SEE SHEET 797

PORT 6: INT# 2046: JENKINS AVE. AT PARSONS AVE.
SEE SHEET 793



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
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- 288 STRAND SMF
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 2045

REFER TO SHEET 380 FOR CONSTRUCTION PLAN DETAILS

CIP: 540007 - 100005
PID NUMBER: 14522

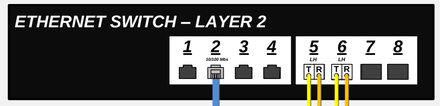
INT# 2045: FREBIS AVE. AT PARSONS AVE.
COMMUNICATIONS DIAGRAM

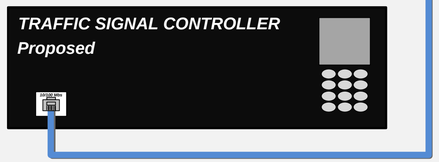
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

795
911

787-797.vsd - 2045 layout - last saved 5/2/2017 4:02:48 PM – printed: 3/11/2016 12:22:13 PM

TRAFFIC SIGNAL CABINET ASSEMBLY

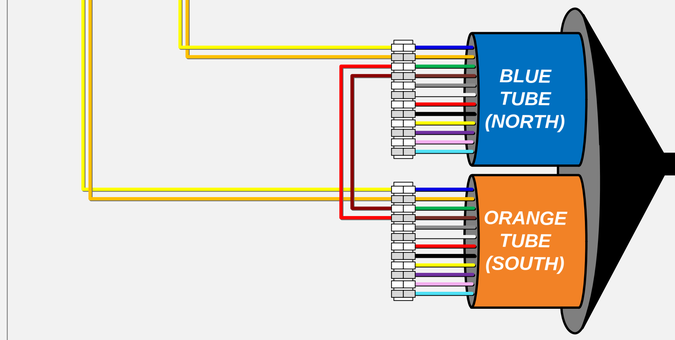




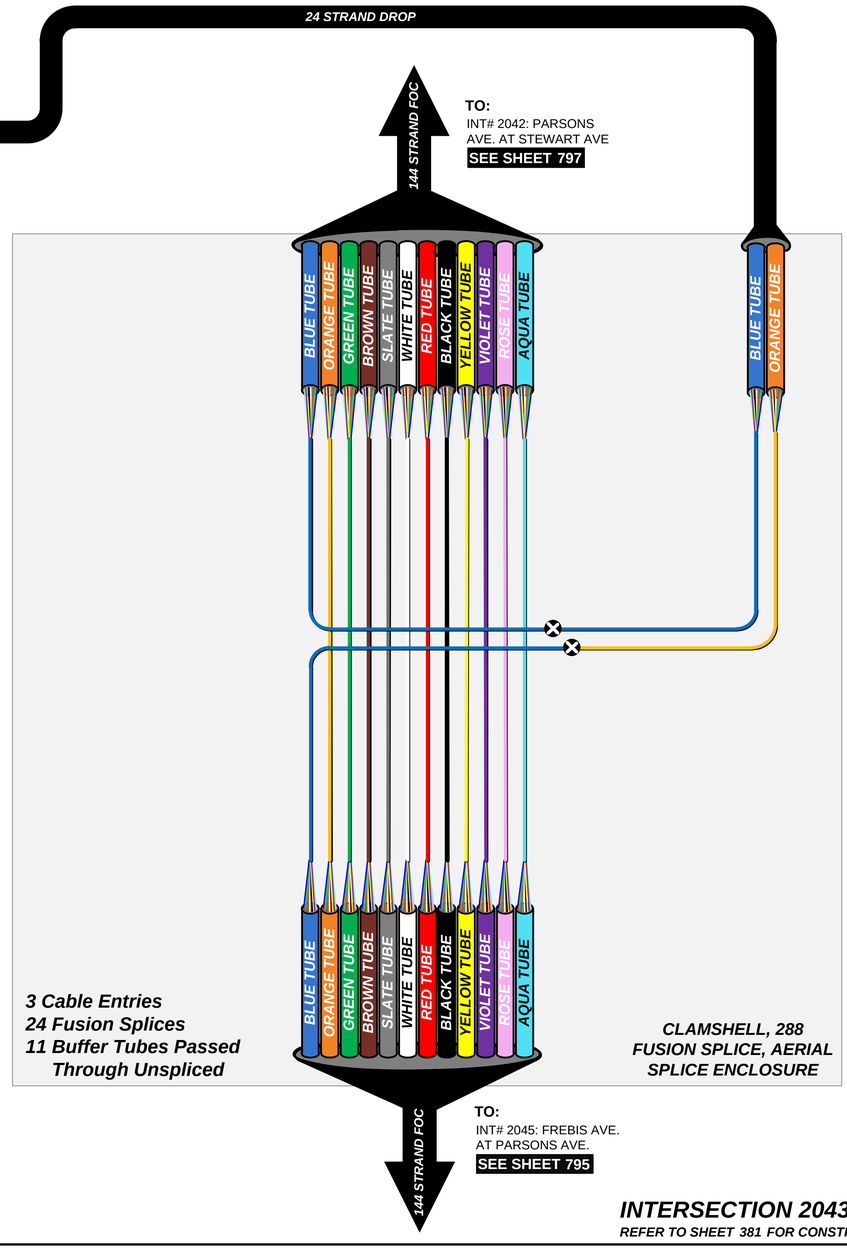
ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 2072: THIRD ST. AT WHITTIER ST.
SEE SHEET 776

PORT 6: INT# 2057: PARSONS AVE. AT SHELDON AVE.
SEE SHEET 794



PATCH PANEL ENCLOSURE – 24 TERMINATION



LEGEND

- 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 – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX T R — GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- 288 STRAND SMF
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 2043

REFER TO SHEET 381 FOR CONSTRUCTION PLAN DETAILS

CIP: 540007 - 100005
PID NUMBER: 14522

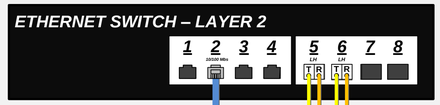
INT# 2043: PARSONS AVE. AT THURMAN AVE.
COMMUNICATIONS DIAGRAM

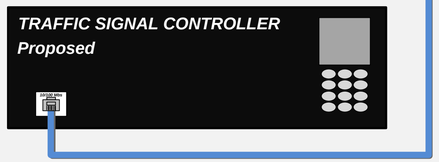
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

796
911

787-797.vsd - 2043 layout ~ last saved 5/2/2017 4:02:48 PM ~ printed: 3/11/2016 12:22:13 PM

TRAFFIC SIGNAL CABINET ASSEMBLY

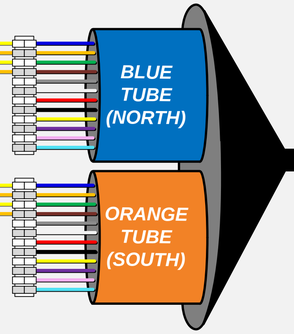




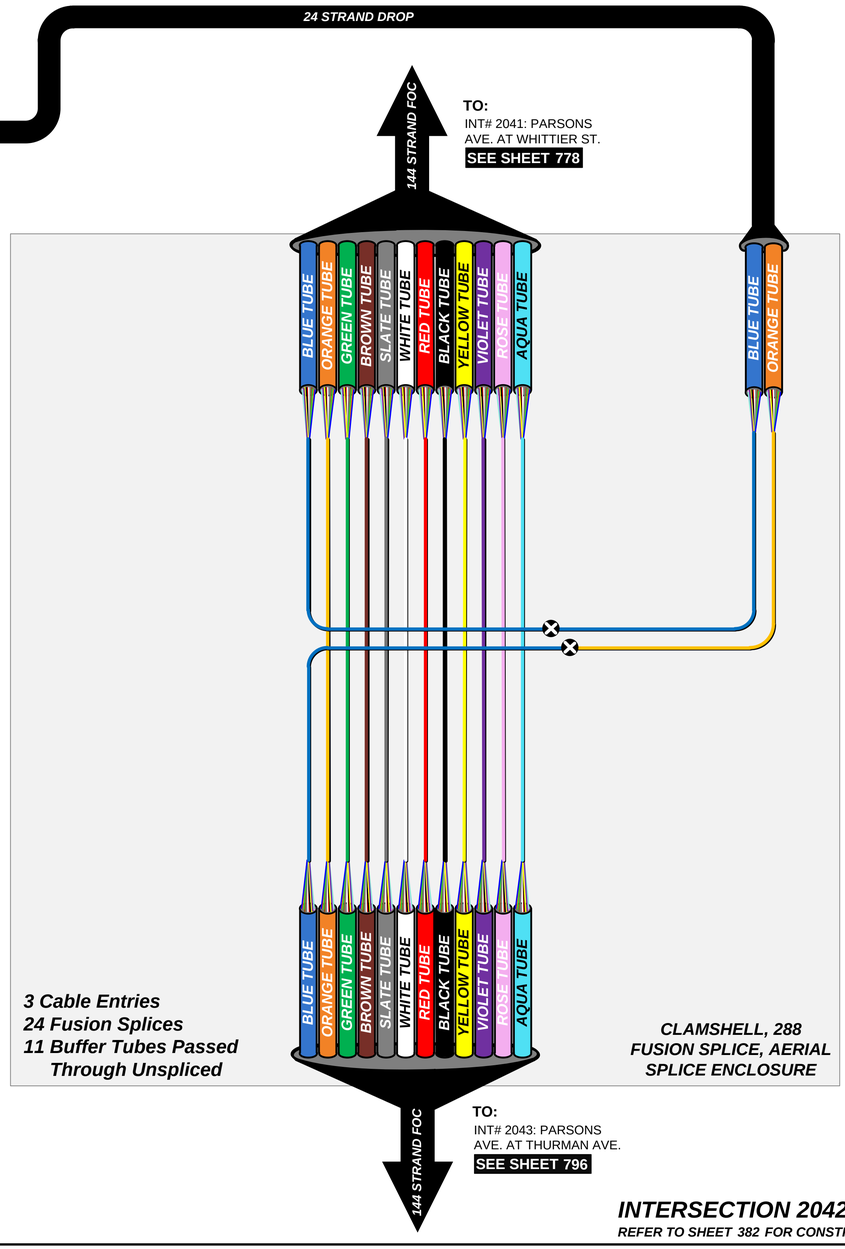
ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 2007: LIVINGSTON AVE. AT PARSONS AVE.
SEE SHEET 742

PORT 6: INT# 2045: FREBIS AVE. AT PARSONS AVE.
SEE SHEET 795



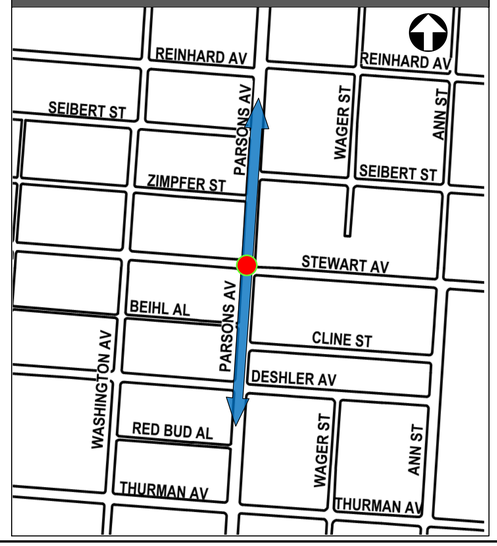
PATCH PANEL ENCLOSURE – 24 TERMINATION



LEGEND

- 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 – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 144 STRAND SMF
- 288 STRAND SMF
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 2042

REFER TO SHEET 382 FOR CONSTRUCTION PLAN DETAILS

CIP: 540007 - 100005
PID NUMBER: 14522

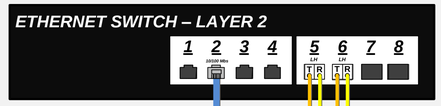
INT# 2042: PARSONS AVE. AT STEWART AVE
COMMUNICATIONS DIAGRAM

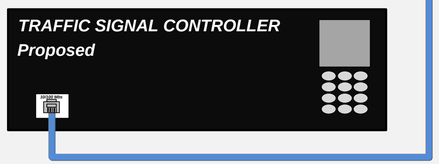
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

797
911

787-797.vsd - 2042 layout ~ last saved 5/2/2017 4:02:48 PM ~ printed: 3/11/2016 12:22:13 PM

TRAFFIC SIGNAL CABINET ASSEMBLY

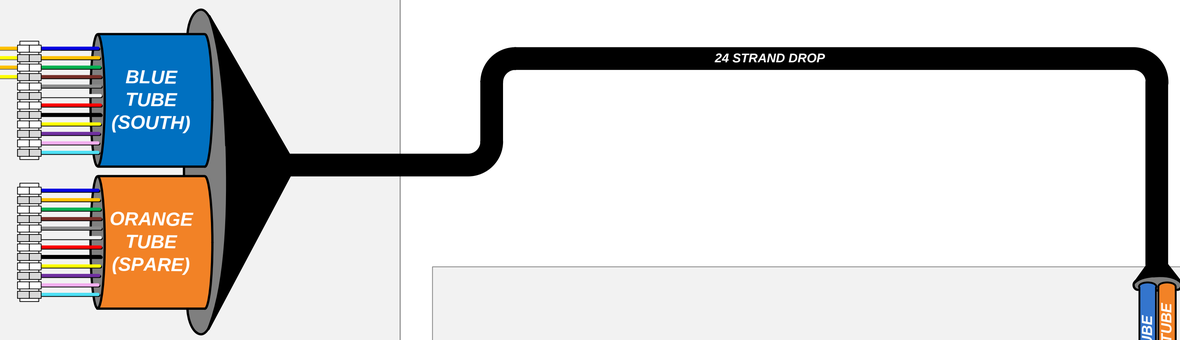




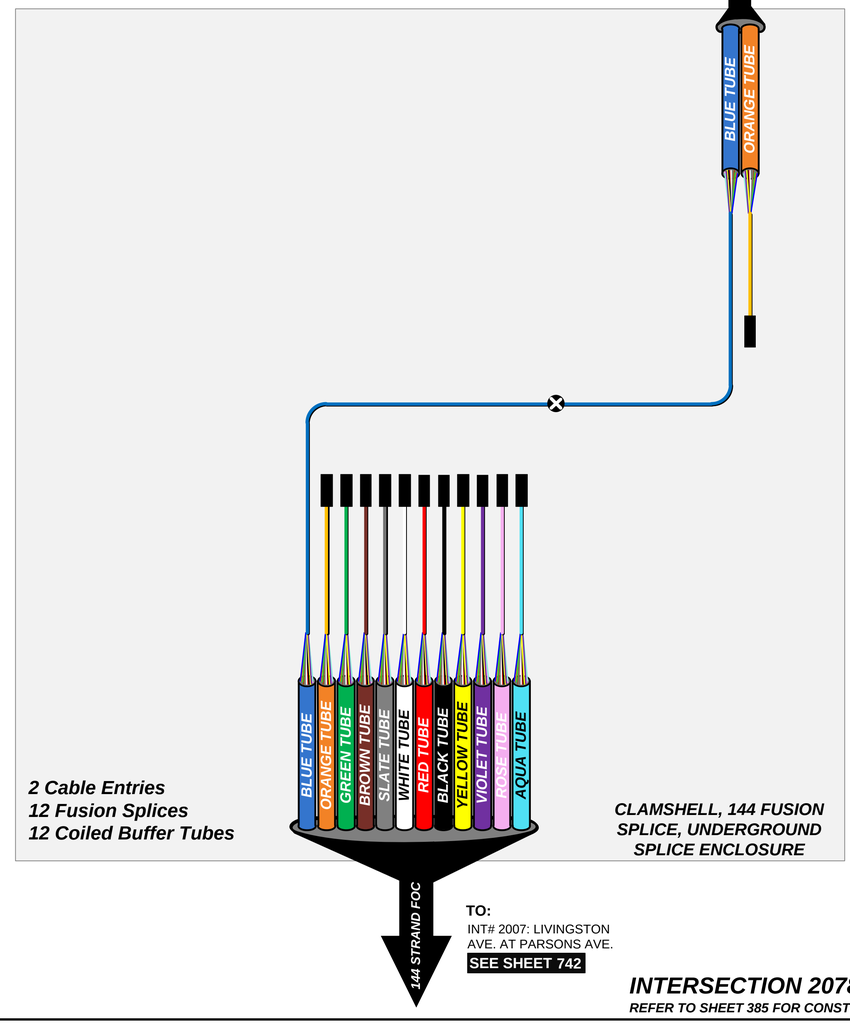
ETHERNET SWITCH PORT DESTINATION

PORT 5: TMC COMMUNICATION HUB: 77 N FRONT ST
SEE SHEET 901

PORT 6: INT# 2005: LIVINGSTON AVE. AT WAGER ST.
SEE SHEET 744



PATCH PANEL ENCLOSURE – 24 TERMINATION



2 Cable Entries
12 Fusion Splices
12 Coiled Buffer Tubes

CLAMSHELL, 144 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE

TO:
INT# 2007: LIVINGSTON AVE. AT PARSONS AVE.
SEE SHEET 742

LEGEND

- 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 – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 2078
REFER TO SHEET 385 FOR CONSTRUCTION PLAN DETAILS

CIP: 540007 - 100005
PID NUMBER: 14522

INT# 2078: CHILDREN'S CROSSROAD AT PARSONS AVE.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

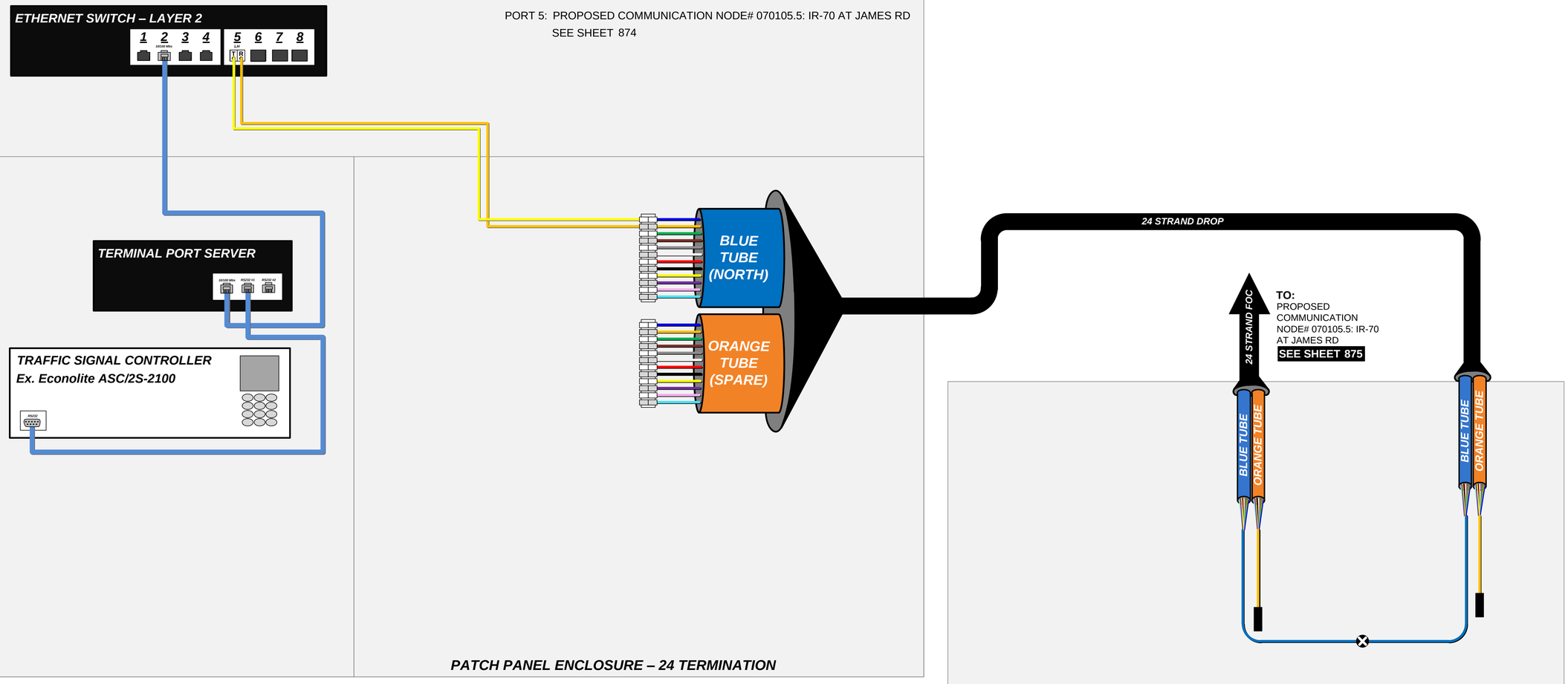
798
911

798-810.vsd - 2078 layout - last saved 5/2/2017 4:04:07 PM - printed: 9/19/2016 10:12:03 AM

TRAFFIC SIGNAL CABINET ASSEMBLY

ETHERNET SWITCH PORT DESTINATION

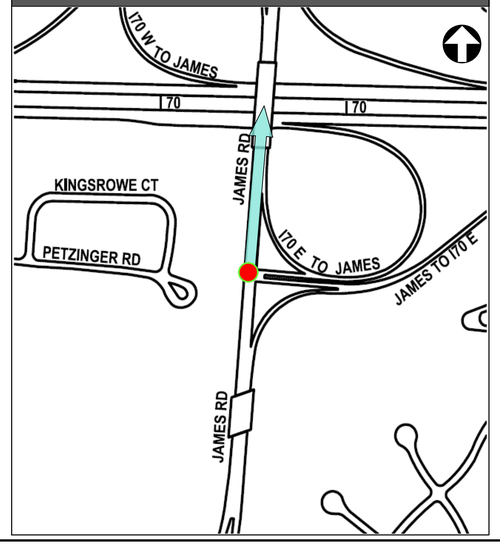
PORT 5: PROPOSED COMMUNICATION NODE# 070105.5: IR-70 AT JAMES RD
SEE SHEET 874



LEGEND

- 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 – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 2193

REFER TO SHEET 445 FOR CONSTRUCTION PLAN DETAILS

CIP: 540007 - 100005
PID NUMBER: 14522

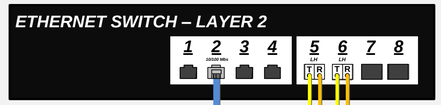
INT# 2193: I-70 EB RAMPS AT JAMES RD.
COMMUNICATIONS DIAGRAM

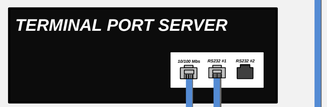
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

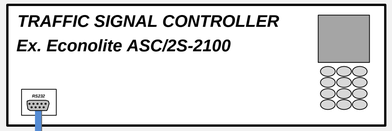
799
911

798-810.vsd - 2193 layout ~ last saved 5/2/2017 4:04:07 PM ~ printed: 9/19/2016 10:12:03 AM

TRAFFIC SIGNAL CABINET ASSEMBLY



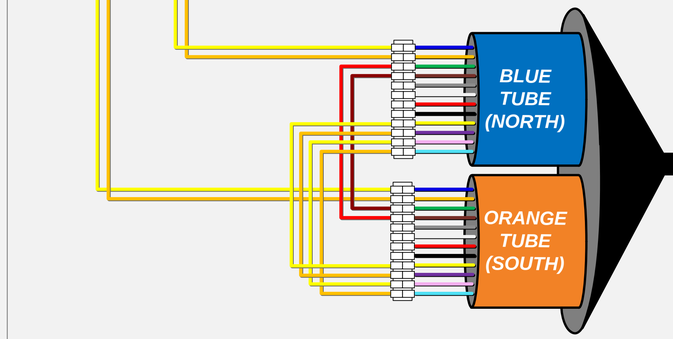




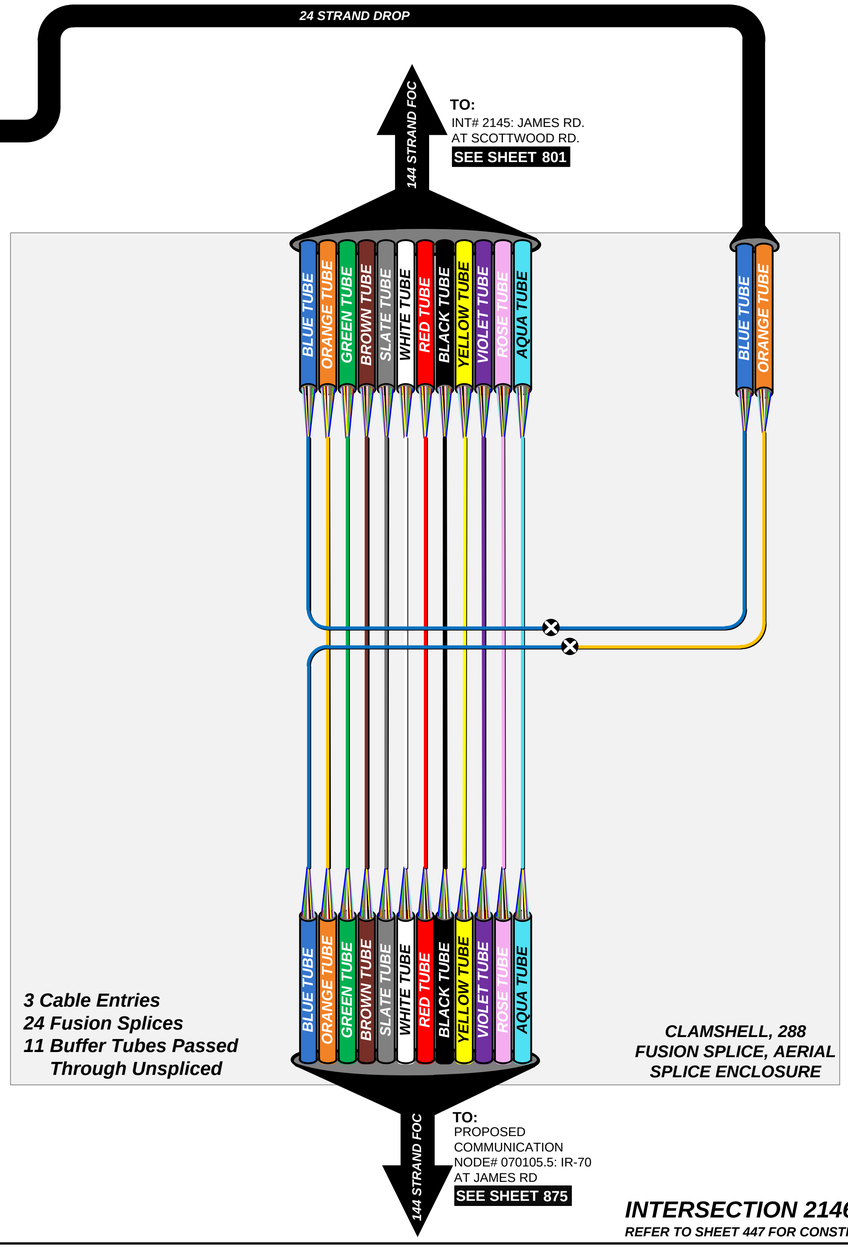
ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 2003: DOVER RD. AT JAMES RD.
SEE SHEET 802

PORT 6: PROPOSED COMMUNICATION NODE# 070105.5: IR-70 AT JAMES RD
SEE SHEET 874



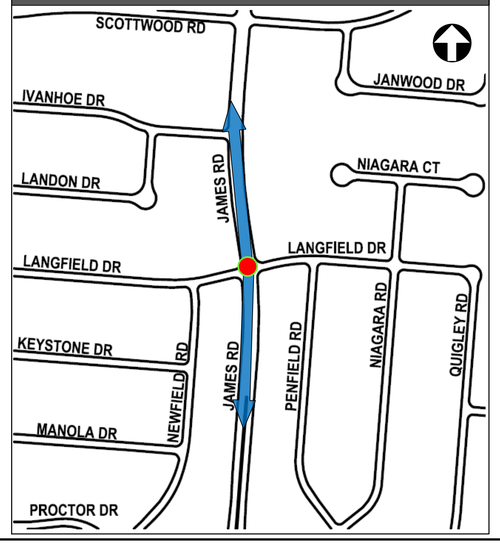
PATCH PANEL ENCLOSURE – 24 TERMINATION



LEGEND

- 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 – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 2146

REFER TO SHEET 447 FOR CONSTRUCTION PLAN DETAILS

CIP: 540007 - 100005
PID NUMBER: 14522

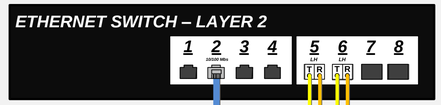
INT# 2146: JAMES RD. AT LANGFIELD RD.
COMMUNICATIONS DIAGRAM

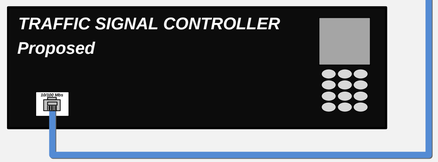
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

800
911

798-810.vsd - 2146 layout ~ last saved 5/2/2017 4:04:07 PM ~ printed: 9/19/2016 10:12:03 AM

TRAFFIC SIGNAL CABINET ASSEMBLY

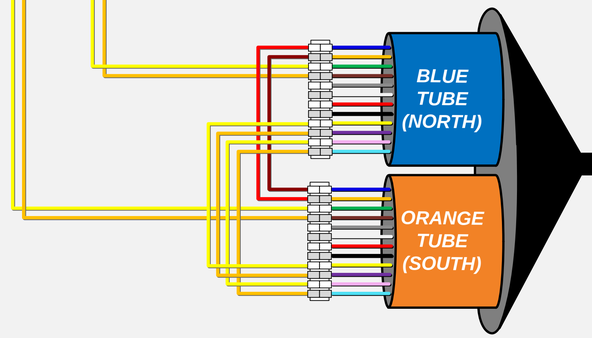




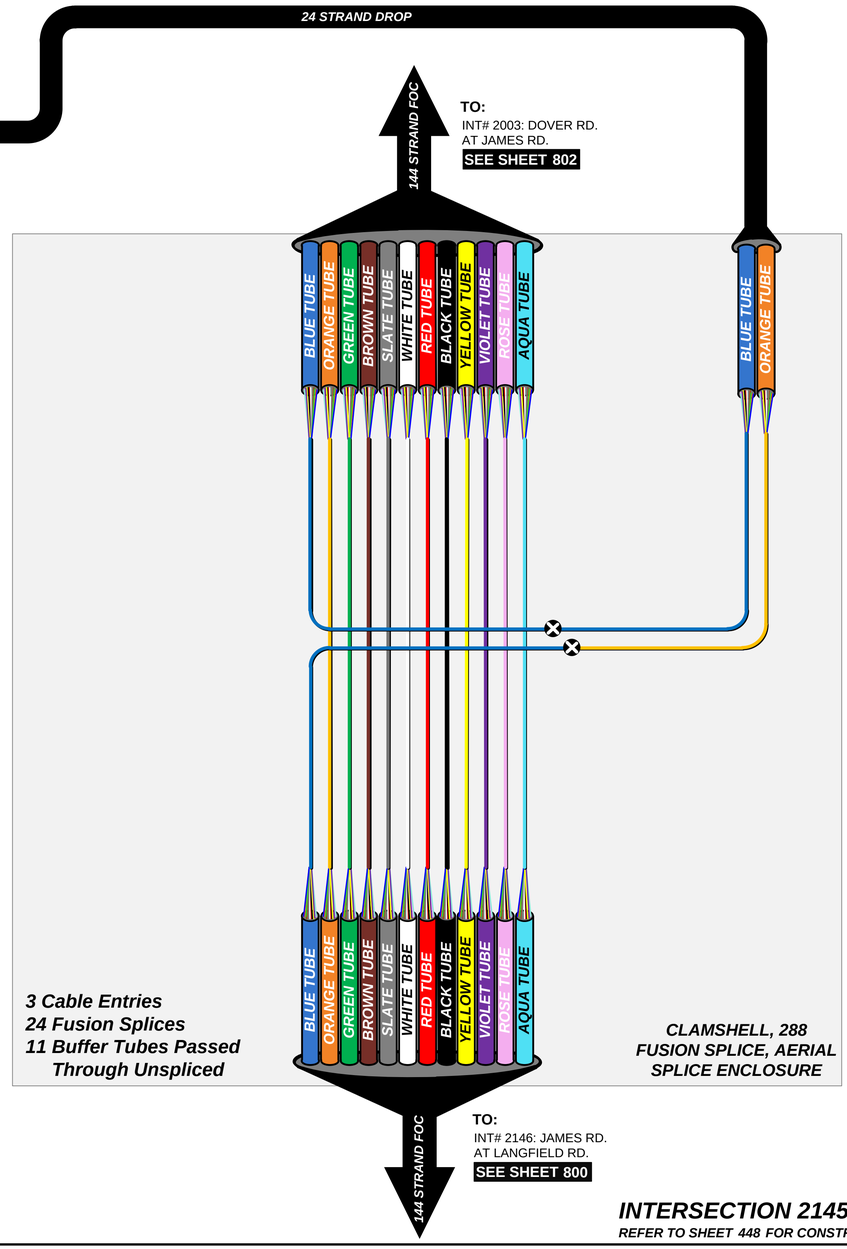
ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 2002: JAMES RD. AT LIVINGSTON AVE.
SEE SHEET 760

PORT 6: PROPOSED COMMUNICATION NODE# 070105.5: IR-70 AT JAMES RD
SEE SHEET 874



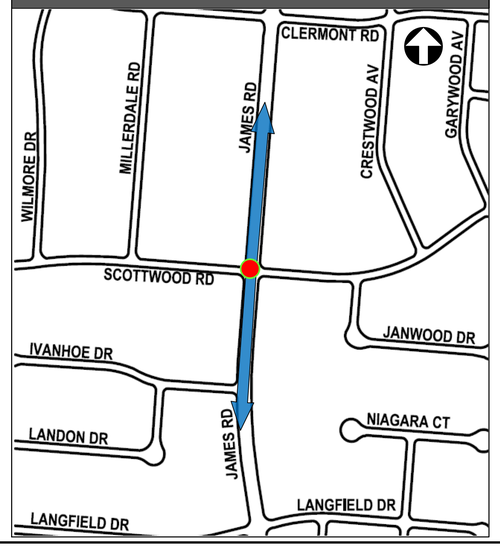
PATCH PANEL ENCLOSURE – 24 TERMINATION



LEGEND

- 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 – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX T R — GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 2145

REFER TO SHEET 448 FOR CONSTRUCTION PLAN DETAILS

CIP: 540007 - 100005
PID NUMBER: 14522

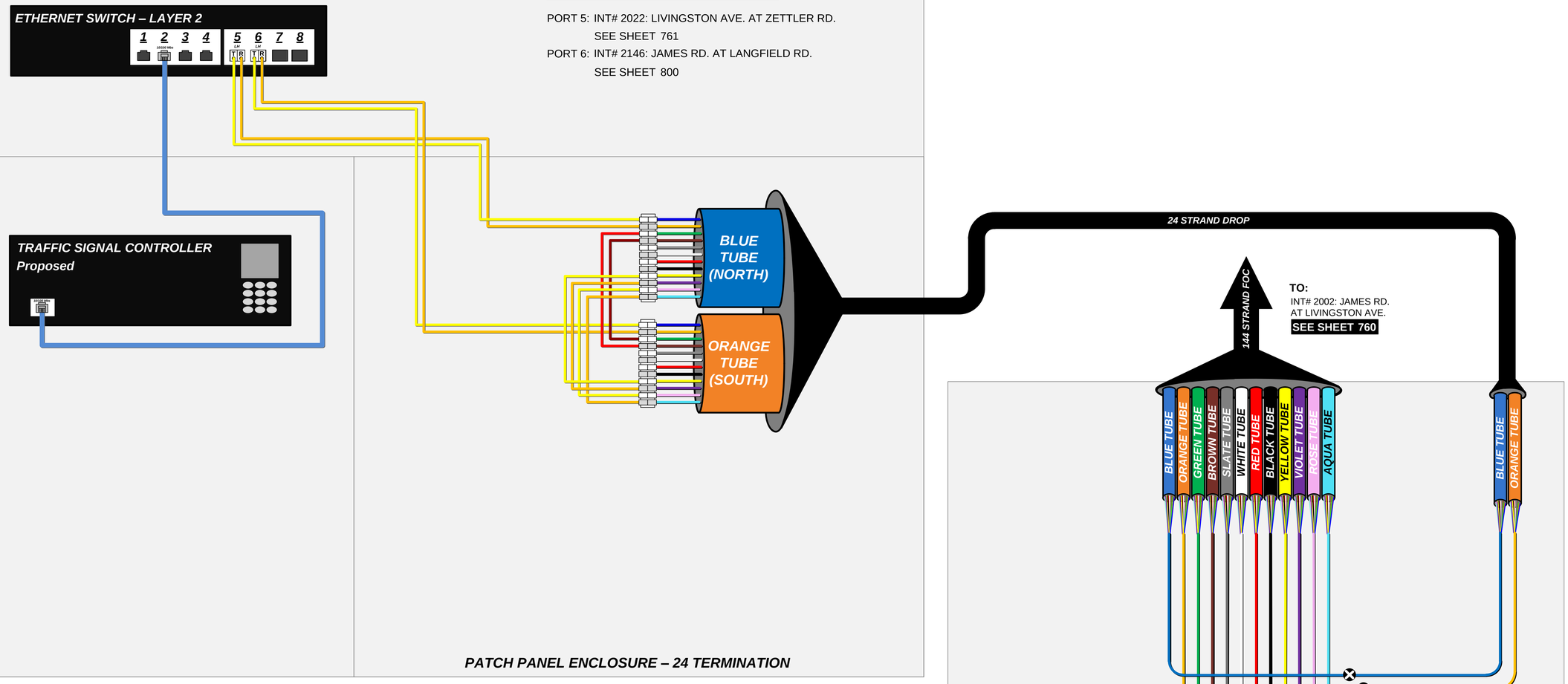
INT# 2145: JAMES RD. AT SCOTTWOOD RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

801
911

798-810.vsd - 2145 layout ~ last saved 5/2/2017 4:04:07 PM ~ printed: 9/19/2016 10:12:03 AM

TRAFFIC SIGNAL CABINET ASSEMBLY



ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 2022: LIVINGSTON AVE. AT ZETTLER RD.
SEE SHEET 761

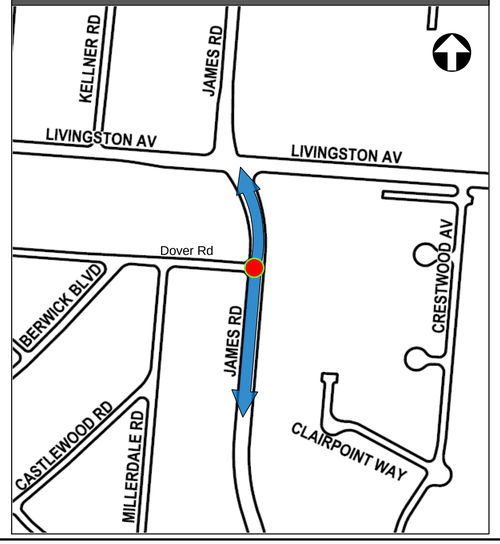
PORT 6: INT# 2146: JAMES RD. AT LANGFIELD RD.
SEE SHEET 800

PATCH PANEL ENCLOSURE – 24 TERMINATION

LEGEND

- 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 – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 2003

REFER TO SHEET 450 FOR CONSTRUCTION PLAN DETAILS

CIP: 540007 - 100005
PID NUMBER: 14522

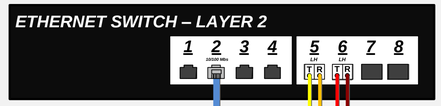
INT# 2003: DOVER RD. AT JAMES RD.
COMMUNICATIONS DIAGRAM

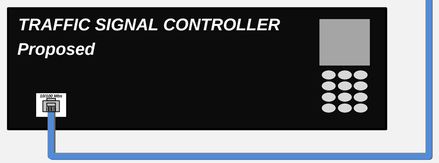
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

802
911

798-810.vsd - 2003 layout ~ last saved 5/2/2017 4:04:07 PM ~ printed: 9/19/2016 10:12:03 AM

TRAFFIC SIGNAL CABINET ASSEMBLY

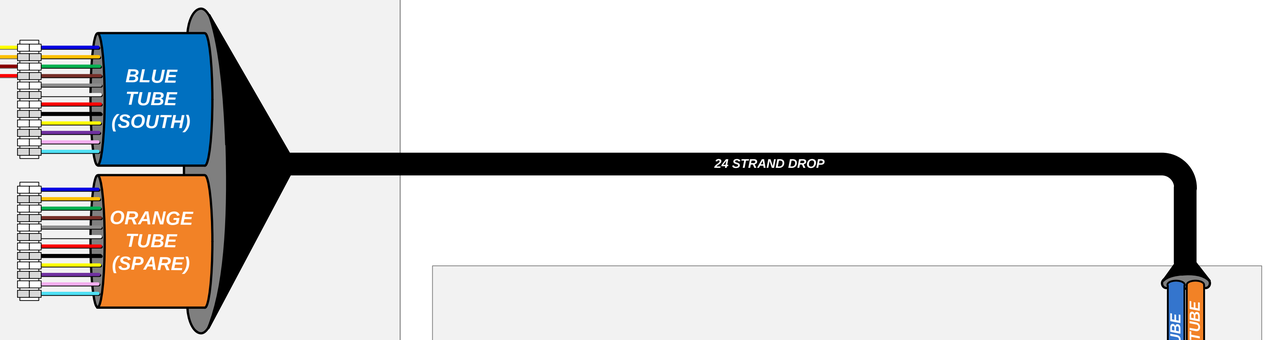




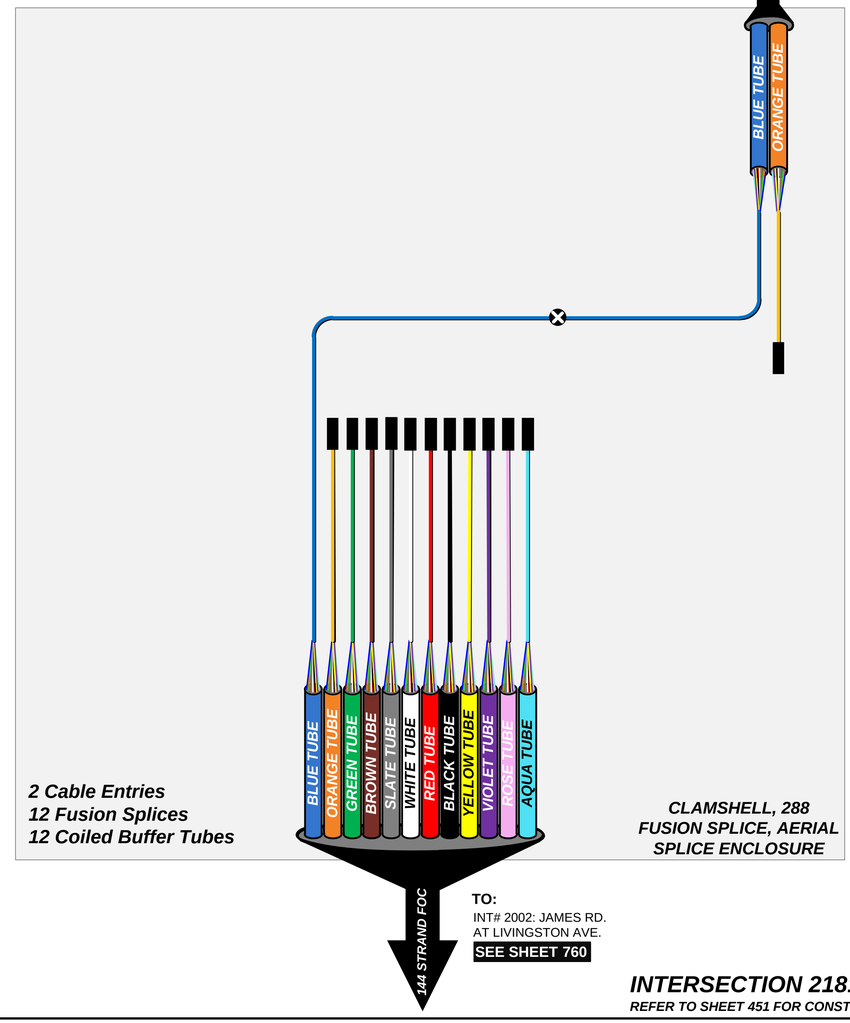
ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 2023: BARNETT RD. AT LIVINGSTON AVE.
SEE SHEET 762

PORT 6: INT# 2002: JAMES RD. AT LIVINGSTON AVE.
SEE SHEET 760



PATCH PANEL ENCLOSURE – 24 TERMINATION



2 Cable Entries
12 Fusion Splices
12 Coiled Buffer Tubes

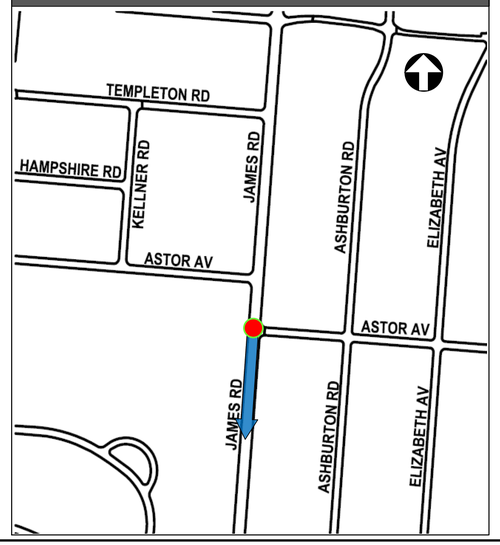
CLAMSHELL, 288 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

TO:
INT# 2002: JAMES RD.
AT LIVINGSTON AVE.
SEE SHEET 760

LEGEND

- 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 – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 2181

REFER TO SHEET 451 FOR CONSTRUCTION PLAN DETAILS

CIP: 540007 - 100005
PID NUMBER: 14522

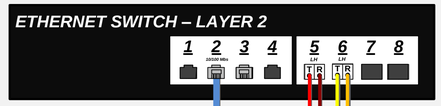
INT# 2181: ASTOR AVE. AT JAMES RD.
COMMUNICATIONS DIAGRAM

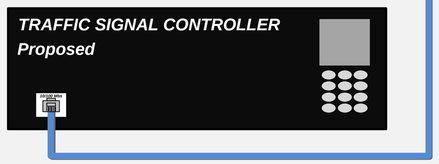
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

803
911

798-810.vsd - 2181 layout ~ last saved 5/2/2017 4:04:07 PM ~ printed: 9/19/2016 10:12:03 AM

TRAFFIC SIGNAL CABINET ASSEMBLY

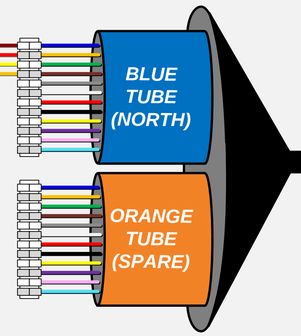




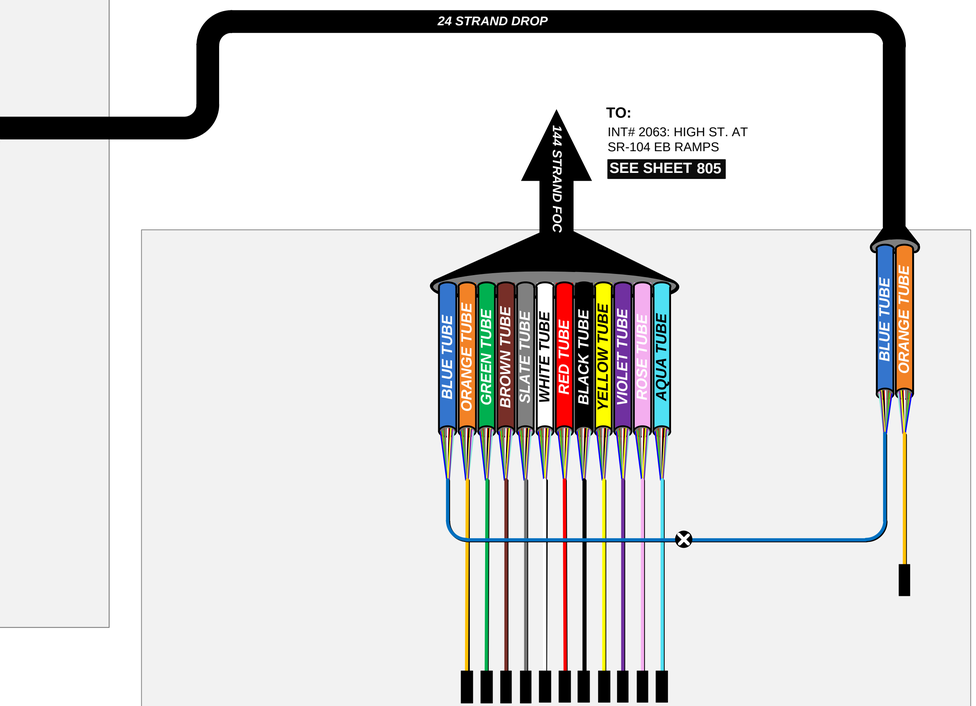
ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 2063: HIGH ST. AT SR-104 EB RAMPS
SEE SHEET 805

PORT 6: INT# 2062: HIGH ST. AT SR-104 WB RAMPS (FUTURE)
SEE SHEET 806



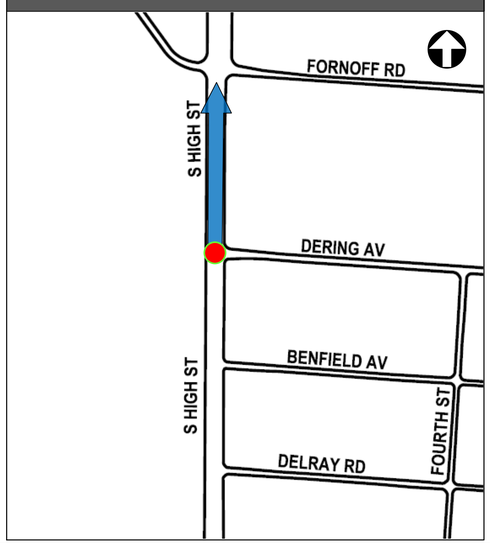
PATCH PANEL ENCLOSURE – 24 TERMINATION



LEGEND

- 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 – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 2064

REFER TO SHEET 244 FOR CONSTRUCTION PLAN DETAILS

CIP: 540007 - 100005
PID NUMBER: 14522

INT# 2064: DERING AVE. AT HIGH ST.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

804
911

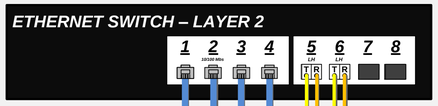
798-810.vsd - 2064 layout ~ last saved 5/2/2017 4:04:07 PM ~ printed: 9/19/2016 10:12:03 AM

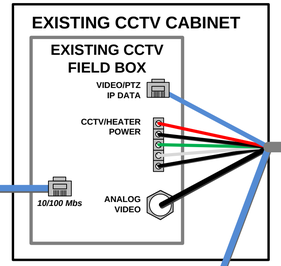
TRAFFIC SIGNAL CABINET ASSEMBLY

ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 2061: BARTHMAN AVE. AT HIGH ST. (FUTURE)
SEE SHEET 807

PORT 6: INT# 2064: DERING AVE. AT HIGH ST.
SEE SHEET 804



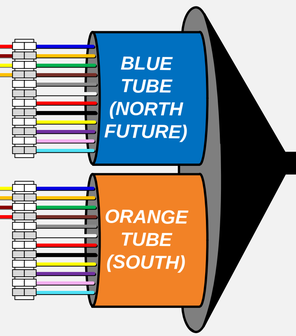


EXISTING COMPOSITE CCTV CABLE

EXISTING CCTV

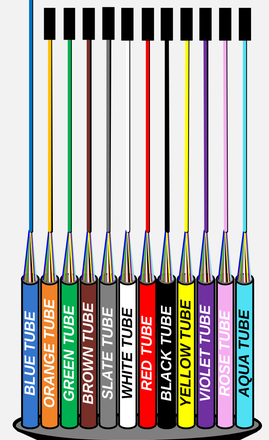
WIRELESS LINK TO
INT# 2062: HIGH ST. AT
SR-104 WB RAMPS
SEE SHEET 806





24 STRAND DROP





2 Cable Entries
12 Fusion Splices
12 Coiled Buffer Tubes

CLAMSHELL, 288 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

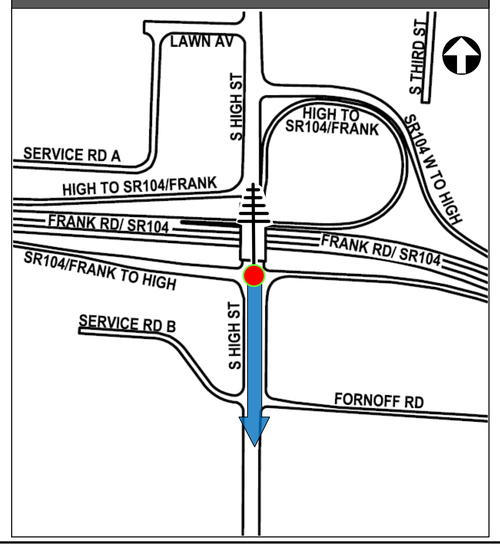
144 STRAND FOC

TO:
INT# 2002: JAMES RD.
AT LIVINGSTON AVE.
SEE SHEET 760

LEGEND

- 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 – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 2063
REFER TO SHEET 245 FOR CONSTRUCTION PLAN DETAILS

CIP: 540007 - 100005
PID NUMBER: 14522

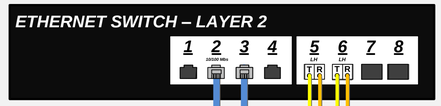
INT# 2063: HIGH ST. AT SR-104 EB RAMPS
COMMUNICATIONS DIAGRAM

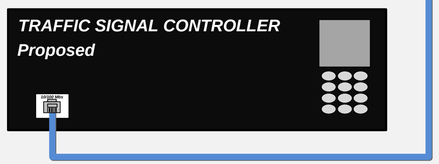
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

805
911

798-810.vsd - 2063 layout - last saved 5/2/2017 4:04:07 PM - printed: 9/19/2016 10:12:03 AM

TRAFFIC SIGNAL CABINET ASSEMBLY





ETHERNET SWITCH PORT DESTINATION

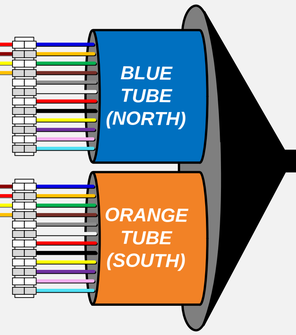
PORT 3: INT# 2063: HIGH ST. AT SR-104 EB RAMPS
SEE SHEET 805

PORT 5: INT# 2060: HIGH ST. AT SOUTHWOOD AVE.
SEE SHEET 808

PORT 6: INT# 2064: DERING AVE. AT HIGH ST. (FUTURE)
SEE SHEET 804

WIRELESS LINK TO
INT# 2063: HIGH ST. AT
SR-104 EB RAMPS
SEE SHEET 805

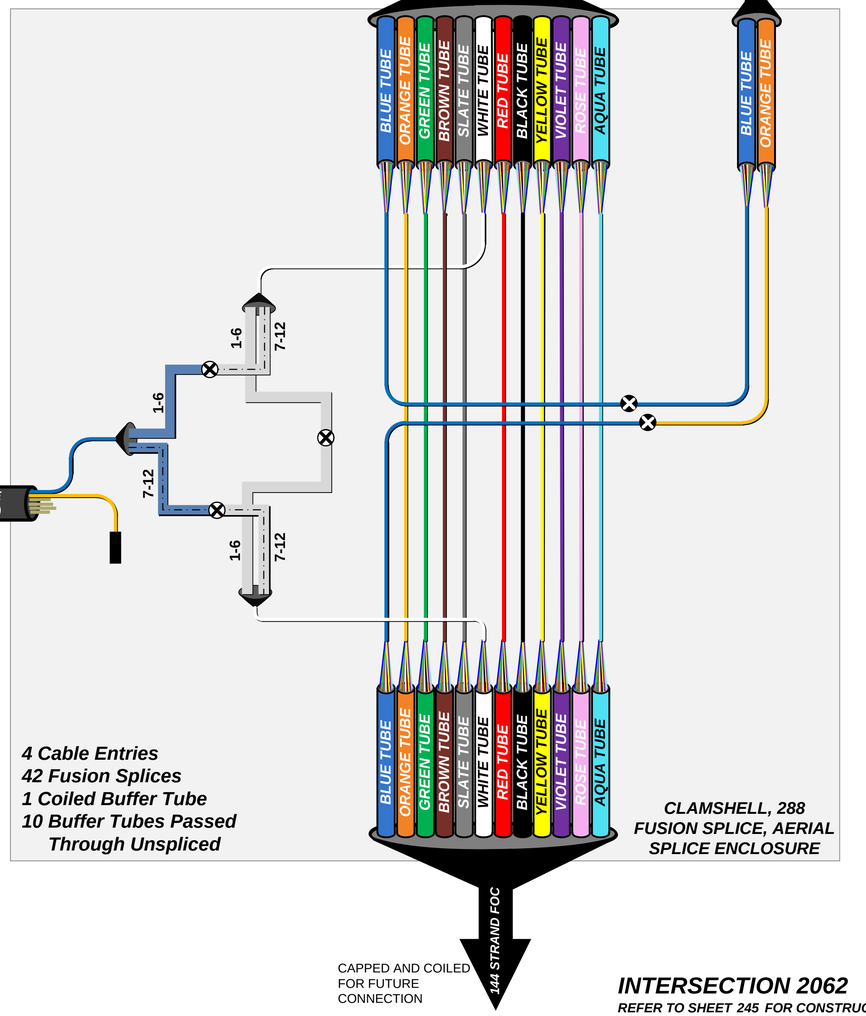
PATCH PANEL ENCLOSURE – 24 TERMINATION



24 STRAND DROP

TO:
INT# 2061: BARTHMAN AVE. AT HIGH ST.
SEE SHEET 807

144 STRAND FOC



CAP AND COIL 450' OF 24SMF FIBER OPTIC CABLE FOR FUTURE ODOT CONNECTION

CAPPED AND COILED FOR FUTURE CONNECTION

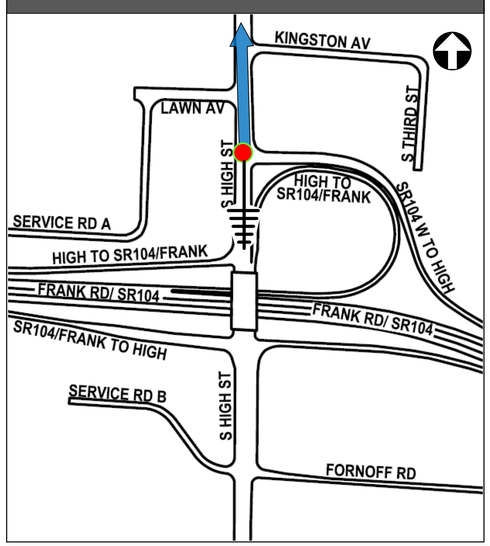
4 Cable Entries
42 Fusion Splices
1 Coiled Buffer Tube
10 Buffer Tubes Passed Through Unspliced

CLAMSHELL, 288 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX — GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 2062
REFER TO SHEET 245 FOR CONSTRUCTION PLAN DETAILS

CIP: 540007 - 100005
PID NUMBER: 14522

INT# 2062: HIGH ST. AT SR-104 WB RAMPS
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

806
911

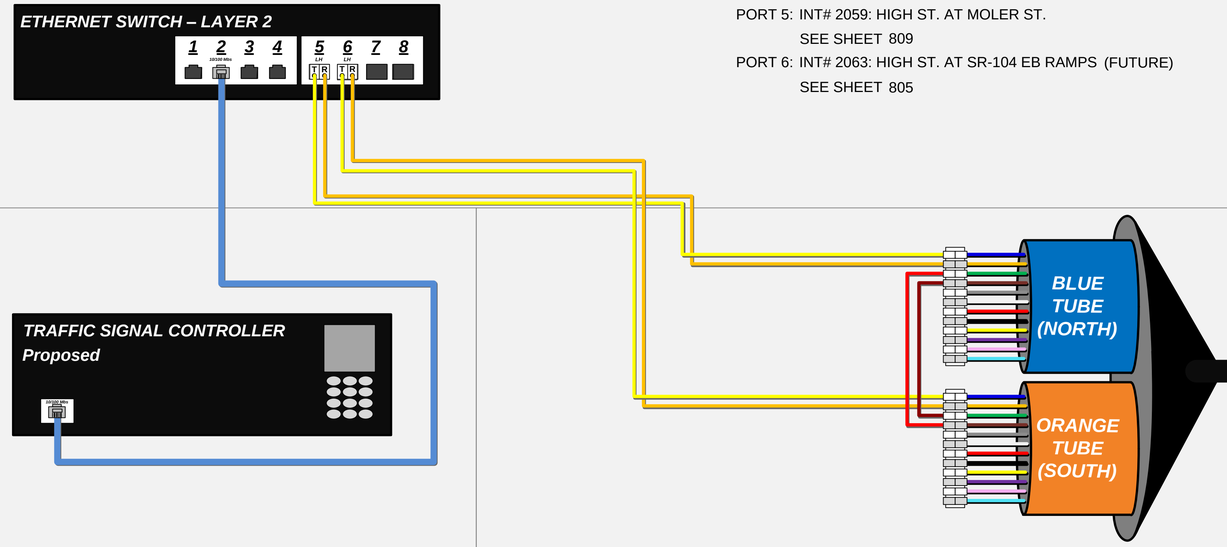
798-810.vsd - 2062 layout ~ last saved 5/2/2017 4:04:07 PM ~ printed: 9/19/2016 10:12:03 AM

TRAFFIC SIGNAL CABINET ASSEMBLY

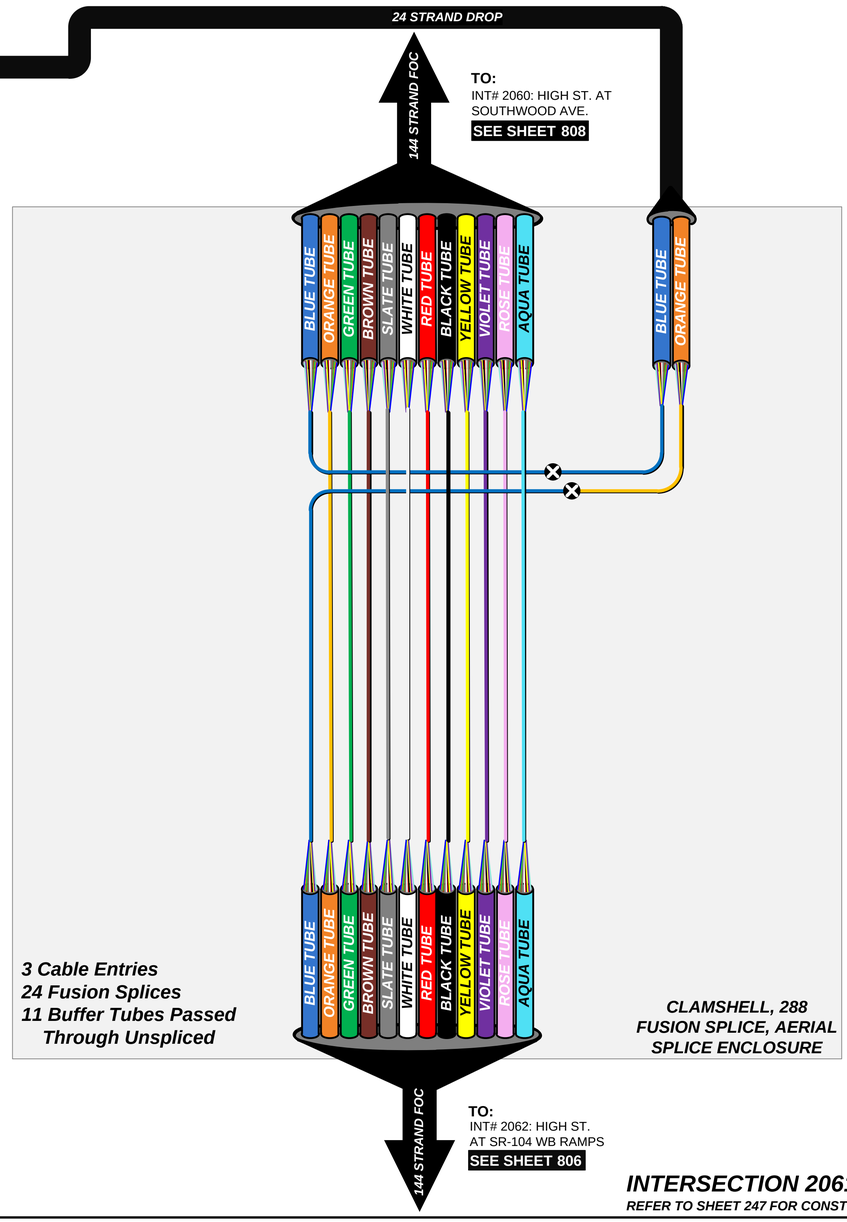
ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 2059: HIGH ST. AT MOLER ST.
SEE SHEET 809

PORT 6: INT# 2063: HIGH ST. AT SR-104 EB RAMPS (FUTURE)
SEE SHEET 805



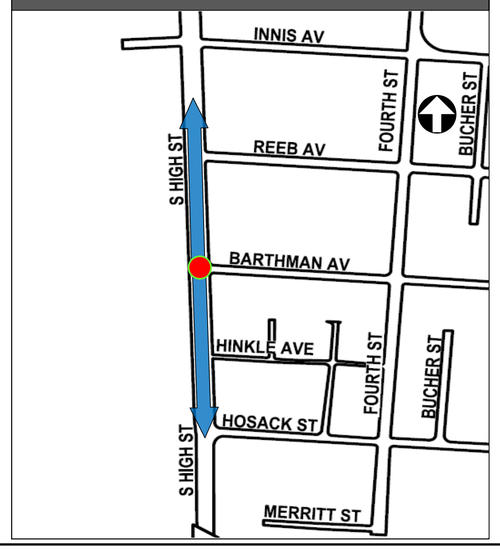
PATCH PANEL ENCLOSURE – 24 TERMINATION



LEGEND

- 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 – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 2061

REFER TO SHEET 247 FOR CONSTRUCTION PLAN DETAILS

CIP: 540007 - 100005
PID NUMBER: 14522

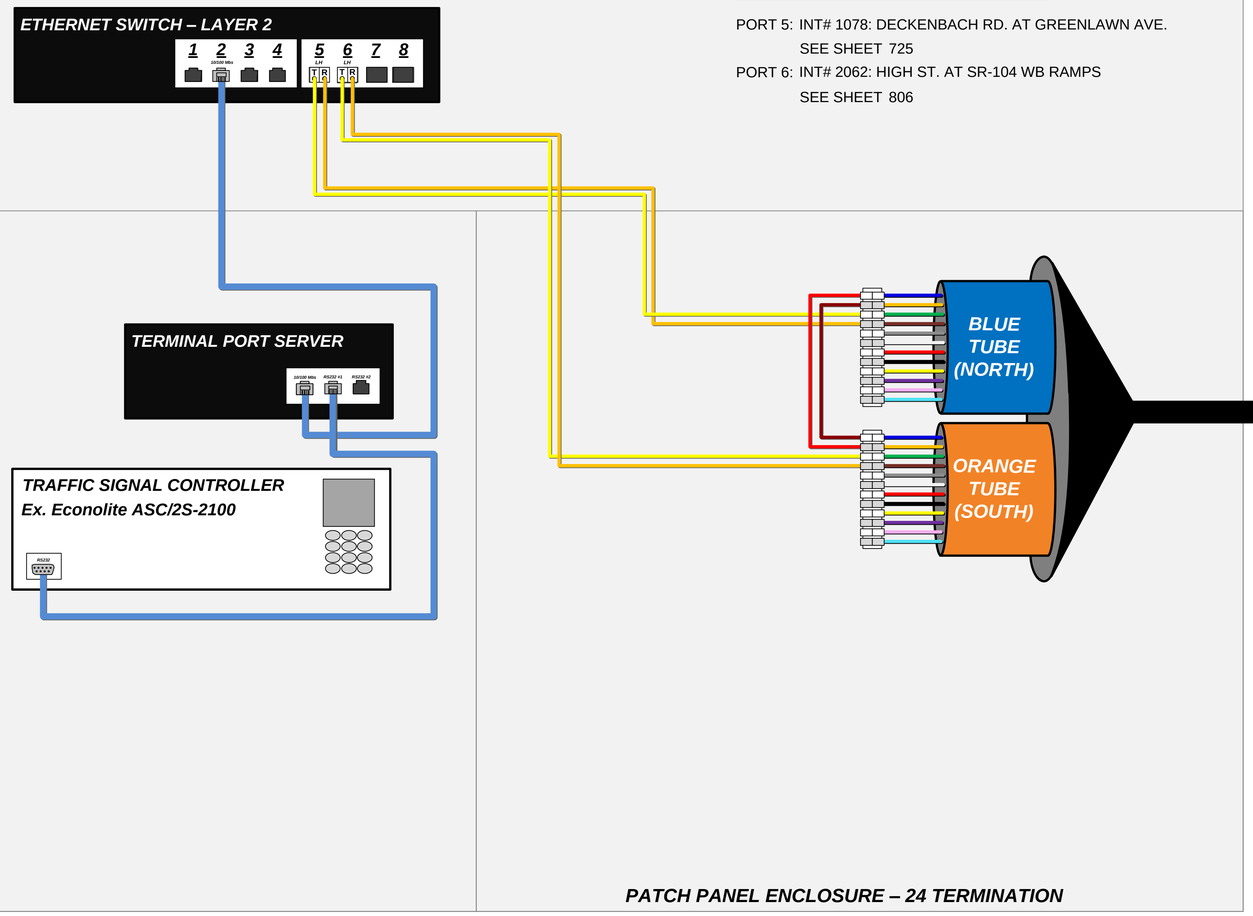
INT# 2061: BARTHMAN AVE. AT HIGH ST.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

807
911

798-810.vsd - 2061 layout - last saved 5/2/2017 4:04:07 PM - printed: 9/19/2016 10:12:03 AM

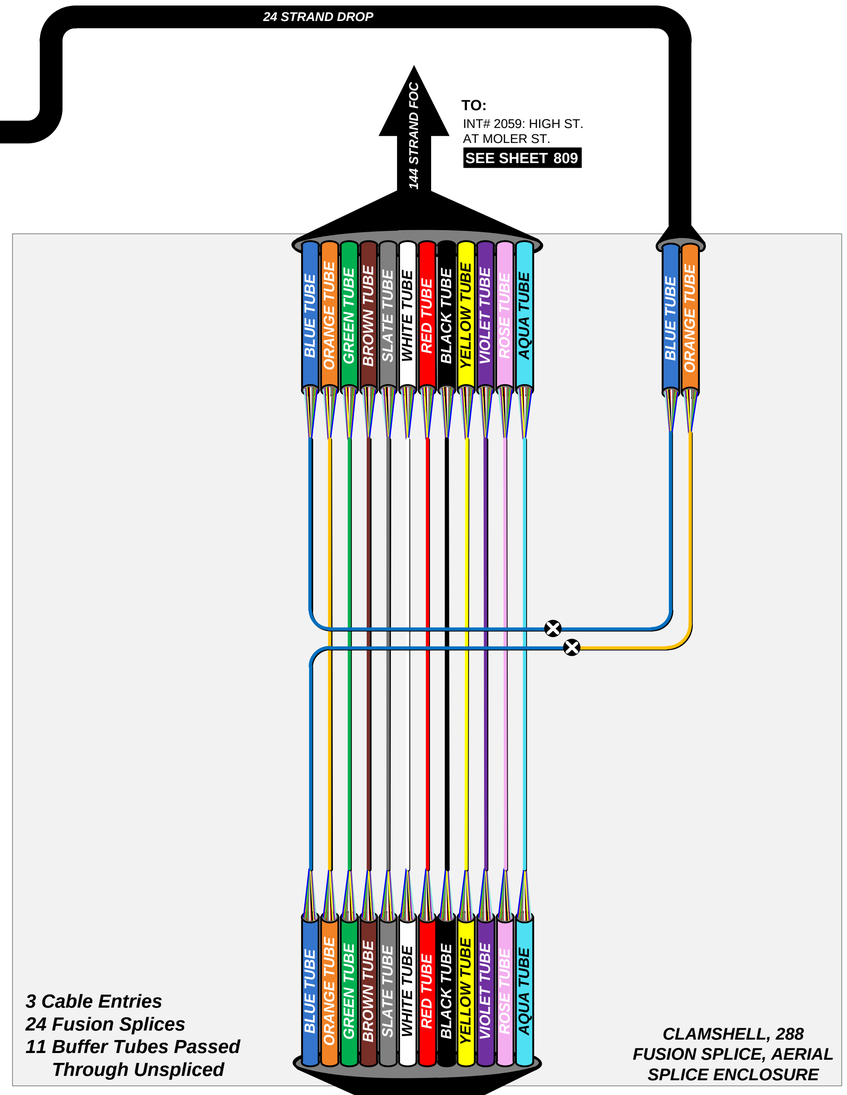
TRAFFIC SIGNAL CABINET ASSEMBLY



ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 1078: DECKENBACH RD. AT GREENLAWN AVE.
SEE SHEET 725

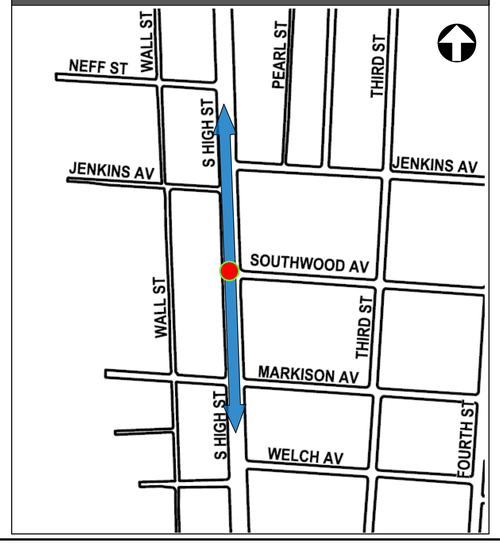
PORT 6: INT# 2062: HIGH ST. AT SR-104 WB RAMPS
SEE SHEET 806



LEGEND

- 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 – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 2060

REFER TO SHEET 249 FOR CONSTRUCTION PLAN DETAILS

CIP: 540007 - 100005
PID NUMBER: 14522

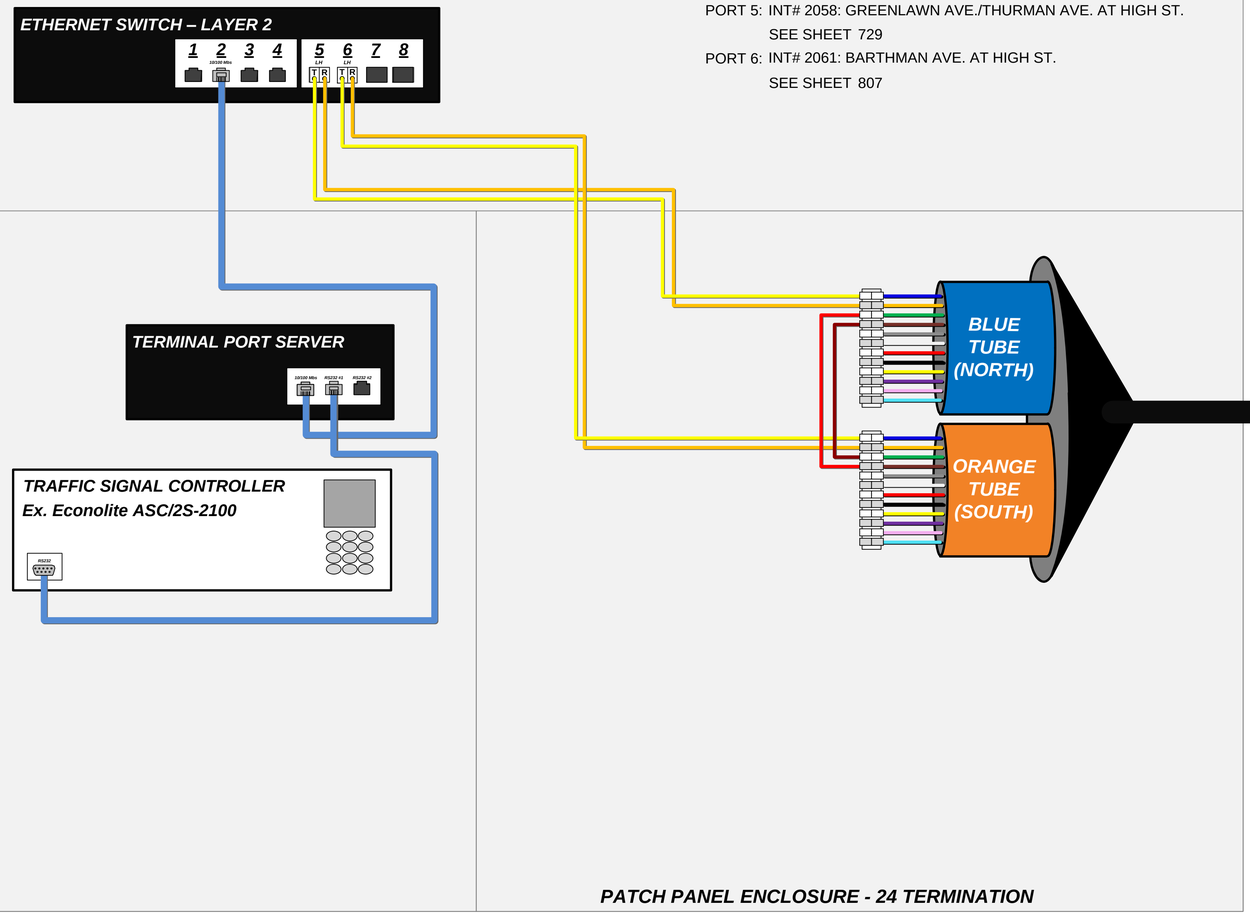
INT# 2060: HIGH ST. AT SOUTHWOOD AVE.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

808
911

798-810.vsd - 2060 layout ~ last saved 5/2/2017 4:04:07 PM ~ printed: 9/19/2016 10:12:03 AM

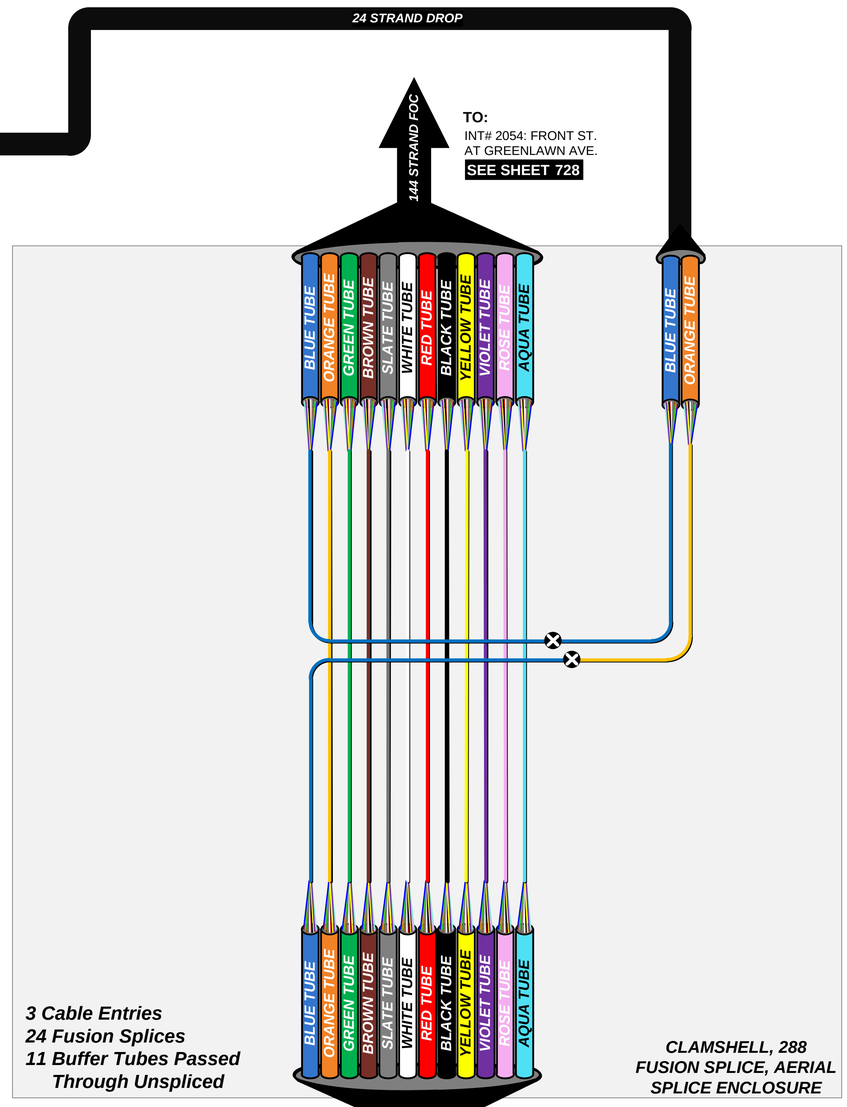
TRAFFIC SIGNAL CABINET ASSEMBLY



ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 2058: GREENLAWN AVE./THURMAN AVE. AT HIGH ST.
SEE SHEET 729

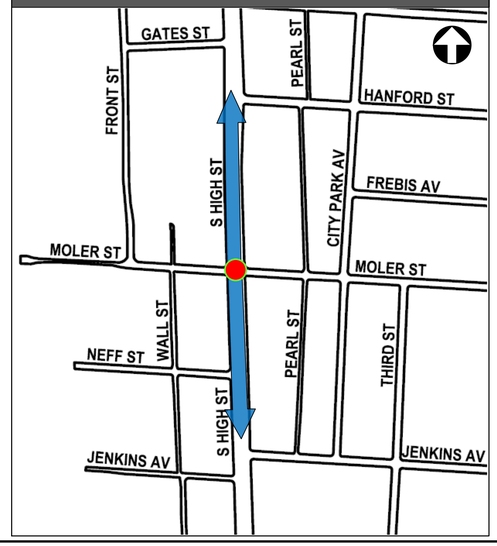
PORT 6: INT# 2061: BARTHMAN AVE. AT HIGH ST.
SEE SHEET 807



LEGEND

- 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 – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 2059

REFER TO SHEET 251 FOR CONSTRUCTION PLAN DETAILS

CIP: 540007 - 100005
PID NUMBER: 14522

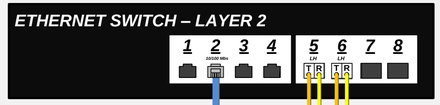
INT# 2059: HIGH ST. AT MOLER ST.
COMMUNICATIONS DIAGRAM

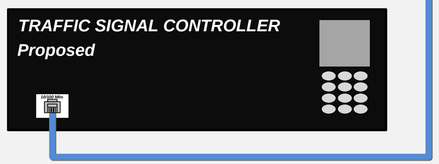
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

809
911

798-810.vsd - 2059 layout ~ last saved 5/2/2017 4:04:07 PM ~ printed: 9/19/2016 10:12:03 AM

TRAFFIC SIGNAL CABINET ASSEMBLY

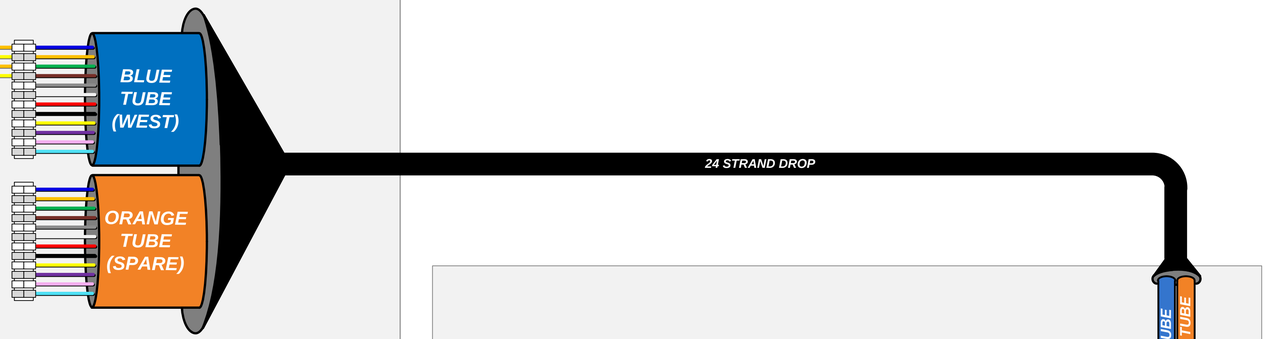


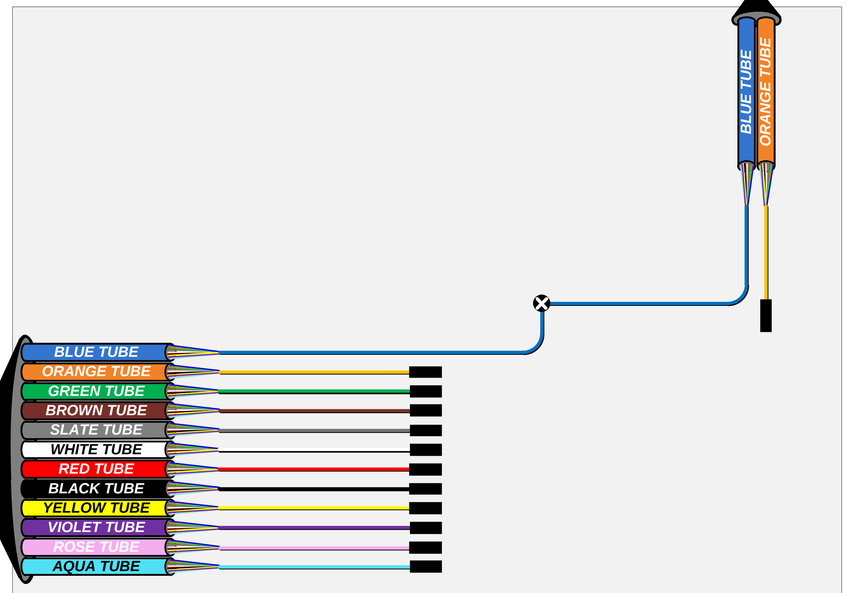


ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 2130: LOCKBOURNE RD. AT MARION RD.
SEE SHEET 815

PORT 6: INT# 2129: LOCKBOURNE RD. AT SR-104 WB RAMPS
SEE SHEET 813



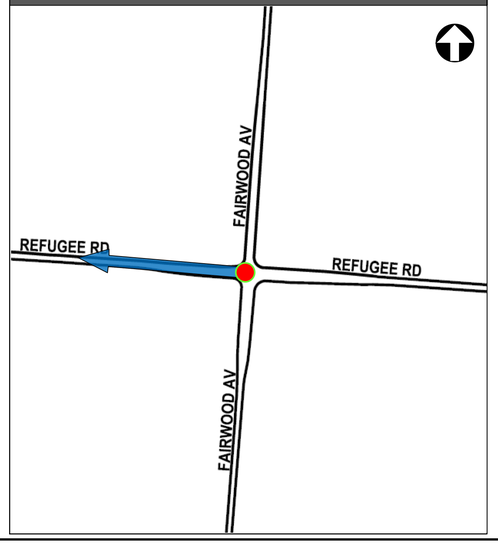


PATCH PANEL ENCLOSURE – 24 TERMINATION

LEGEND

- 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 – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 2135

REFER TO SHEET 414 FOR CONSTRUCTION PLAN DETAILS

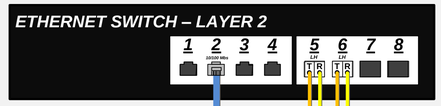
CIP: 540007 - 100005
PID NUMBER: 14522

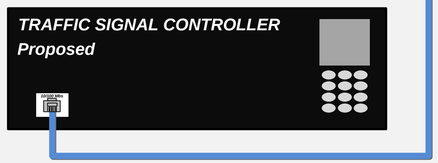
INT# 2135: FAIRWOOD AVE. AT REFUGEE RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

798-810.vsd - 2135 layout – last saved 5/2/2017 4:04:07 PM – printed: 9/19/2016 10:12:03 AM

TRAFFIC SIGNAL CABINET ASSEMBLY

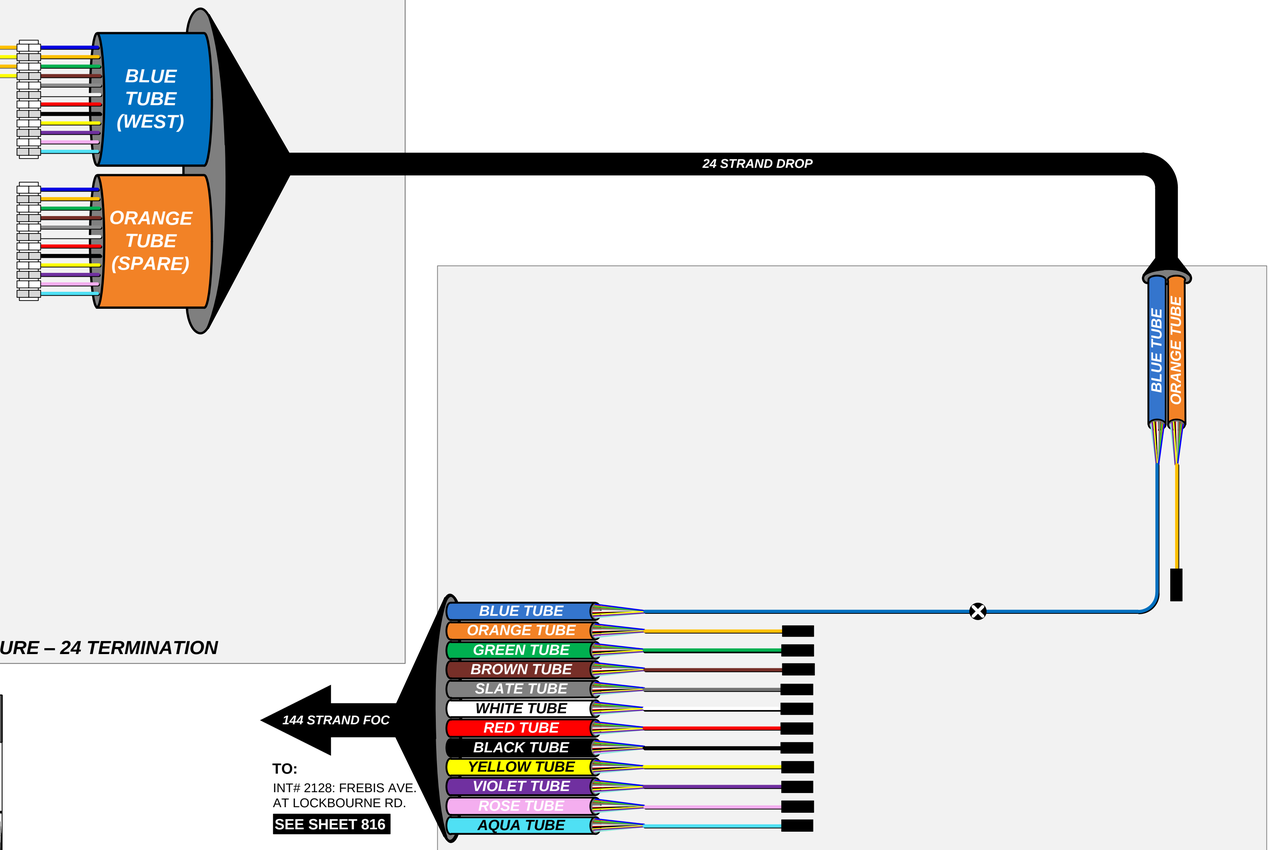




ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 2122: LOCKBOURNE RD. AT WHITTIER ST.
SEE SHEET 780

PORT 6: INT# 2130: LOCKBOURNE RD. AT MARION RD.
SEE SHEET 815



TO:
INT# 2128: FREBIS AVE. AT LOCKBOURNE RD.
SEE SHEET 816

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
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX T R GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 2133
REFER TO SHEET 408 FOR CONSTRUCTION PLAN DETAILS

CIP: 540007 - 100005
PID NUMBER: 14522

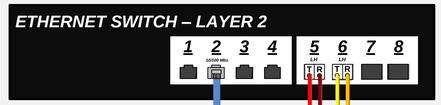
INT# 2133: FAIRWOOD AVE. AT FREBIS AVE.
COMMUNICATIONS DIAGRAM

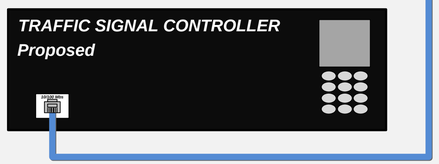
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

811
911

811-820.vsd - 2133 layout ~ last saved 5/2/2017 4:05:13 PM ~ printed: 9/19/2016 10:11:31 AM

TRAFFIC SIGNAL CABINET ASSEMBLY

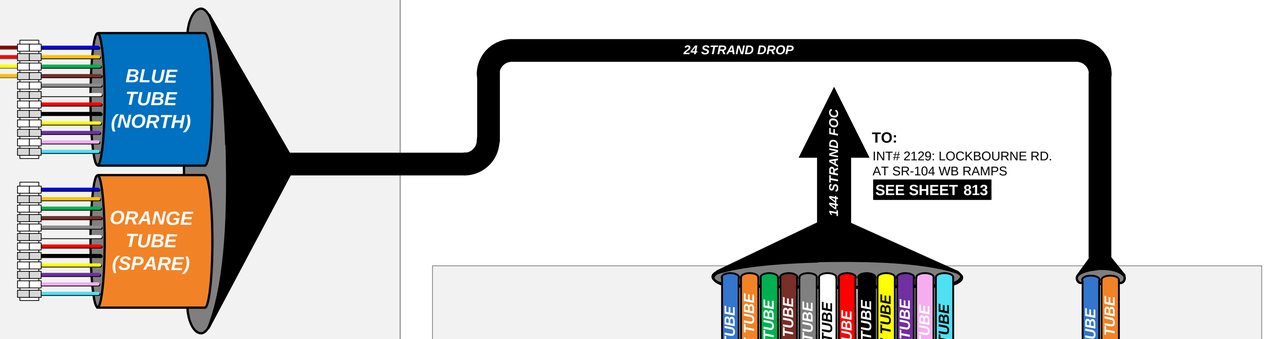




ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 2129: LOCKBOURNE RD. AT SR-104 WB RAMPS
SEE SHEET 813

PORT 6: INT# 2131: LOCKBOURNE RD. AT REFUGEE RD.
SEE SHEET 814



PATCH PANEL ENCLOSURE – 24 TERMINATION

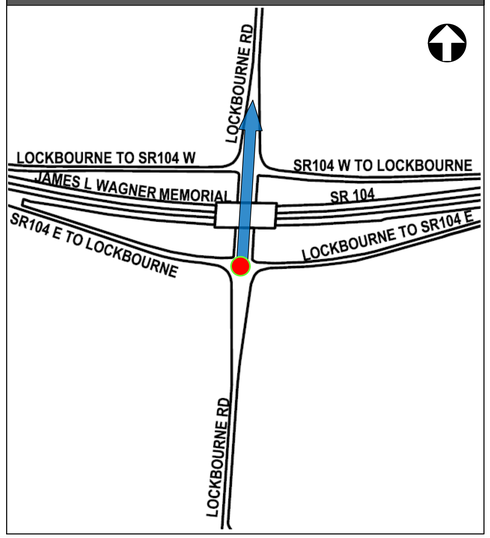
2 Cable Entries
12 Fusion Splices
12 Coiled Buffer Tubes

CLAMSHELL, 288
FUSION SPLICE, AERIAL
SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 2132

REFER TO SHEET 397 FOR CONSTRUCTION PLAN DETAILS

CIP: 540007 - 100005
PID NUMBER: 14522

INT# 2132: LOCKBOURNE RD. AT SR-104 EB RAMPS
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

812
911

811-820.vsd - 2132 layout ~ last saved 5/2/2017 4:05:13 PM ~ printed: 9/19/2016 10:11:31 AM

TRAFFIC SIGNAL CABINET ASSEMBLY

ETHERNET SWITCH – LAYER 2

1 2 3 4 5 6 7 8

TRAFFIC SIGNAL CONTROLLER
Proposed

ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 2135: FAIRWOOD AVE. AT REFUGEE RD.
SEE SHEET 810

PORT 6: INT# 2132: LOCKBOURNE RD. AT SR-104 EB RAMPS
SEE SHEET 812

EXISTING CCTV CABINET

CCTV FIELD BOX

VIDEO/PTZ IP DATA
CCTV/HEATER POWER
10/100 Mbs
ANALOG VIDEO

EXISTING COMPOSITE CCTV CABLE

EXISTING CCTV

BLUE TUBE (NORTH)

ORANGE TUBE (SOUTH)

24 STRAND DROP

144 STRAND FOC

TO:
INT# 2131: LOCKBOURNE RD.
AT REFUGEE RD.
SEE SHEET 814

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

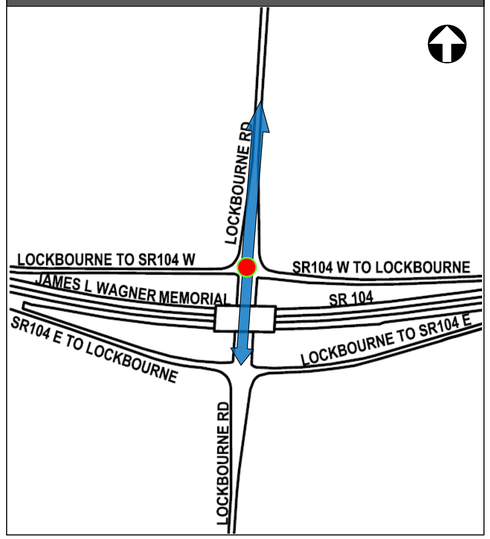
TO:
INT# 2132: LOCKBOURNE RD.
AT SR-104 EB RAMPS
SEE SHEET 812

PATCH PANEL ENCLOSURE – 24 TERMINATION

LEGEND

- 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 – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 2129
REFER TO SHEET 397 FOR CONSTRUCTION PLAN DETAILS

CIP: 540007 - 100005
PID NUMBER: 14522

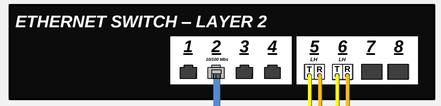
INT# 2129: LOCKBOURNE RD. AT SR-104 WB RAMPS
COMMUNICATIONS DIAGRAM

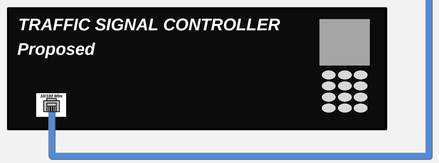
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

813
911

811-820.vsd - 2129 layout ~ last saved 5/2/2017 4:05:13 PM ~ printed: 9/19/2016 10:11:31 AM

TRAFFIC SIGNAL CABINET ASSEMBLY

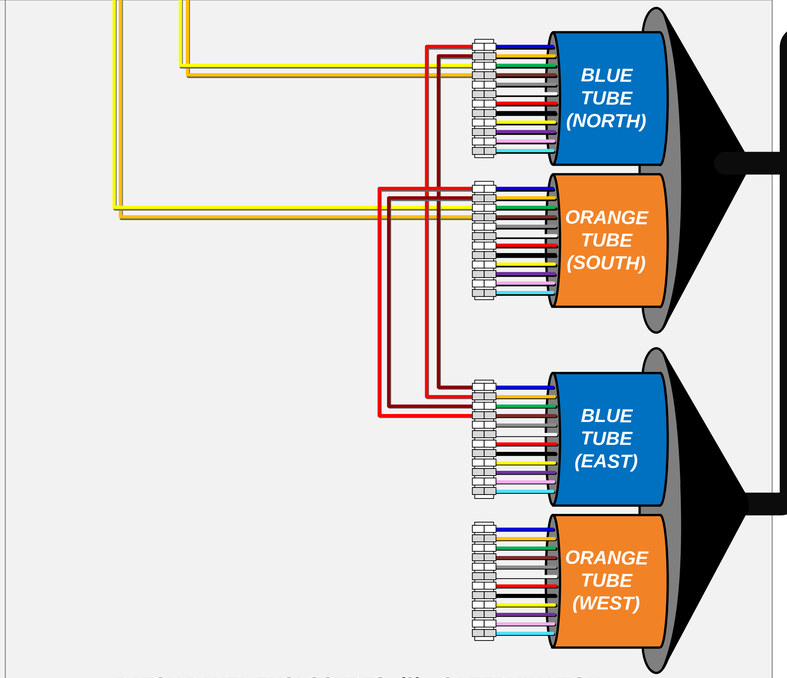




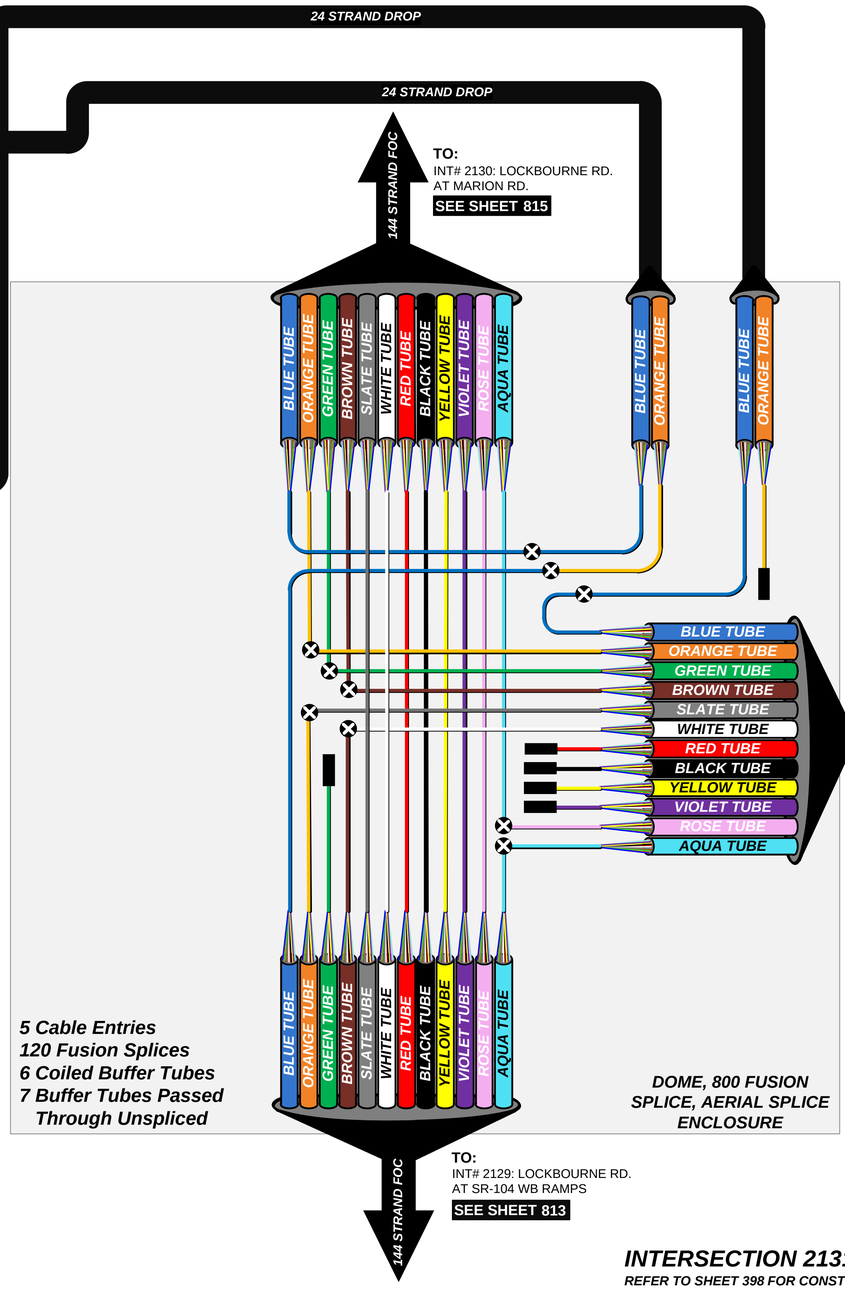
ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 2128: FREBIS AVE. AT LOCKBOURNE RD.
SEE SHEET 816

PORT 6: INT# 2132: LOCKBOURNE RD. AT SR-104 EB RAMPS
SEE SHEET 812



PATCH PANEL ENCLOSURES: (2) – 24 TERMINATION



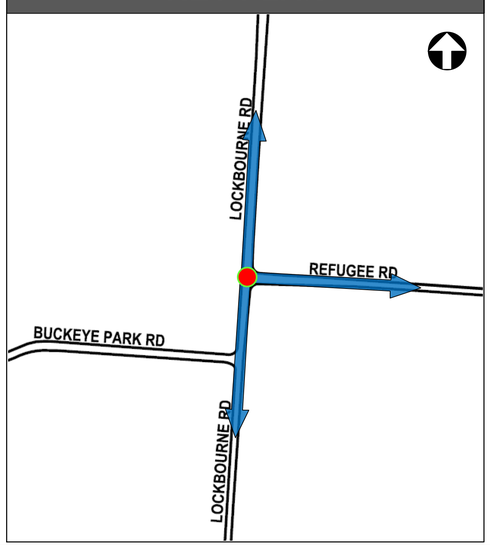
5 Cable Entries
120 Fusion Splices
6 Coiled Buffer Tubes
7 Buffer Tubes Passed Through Unspliced

DOME, 800 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

LEGEND

- 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 – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 2131

REFER TO SHEET 398 FOR CONSTRUCTION PLAN DETAILS

CIP: 540007 - 100005
PID NUMBER: 14522

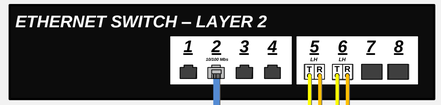
INT# 2131: LOCKBOURNE RD. AT REFUGEE RD.
COMMUNICATIONS DIAGRAM

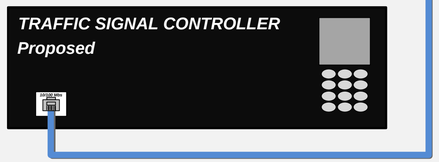
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

814
911

811-820.vsd - 2131 layout – last saved 5/2/2017 4:05:13 PM – printed: 9/19/2016 10:11:31 AM

TRAFFIC SIGNAL CABINET ASSEMBLY

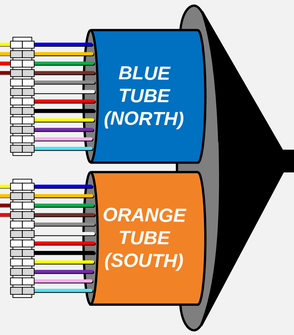




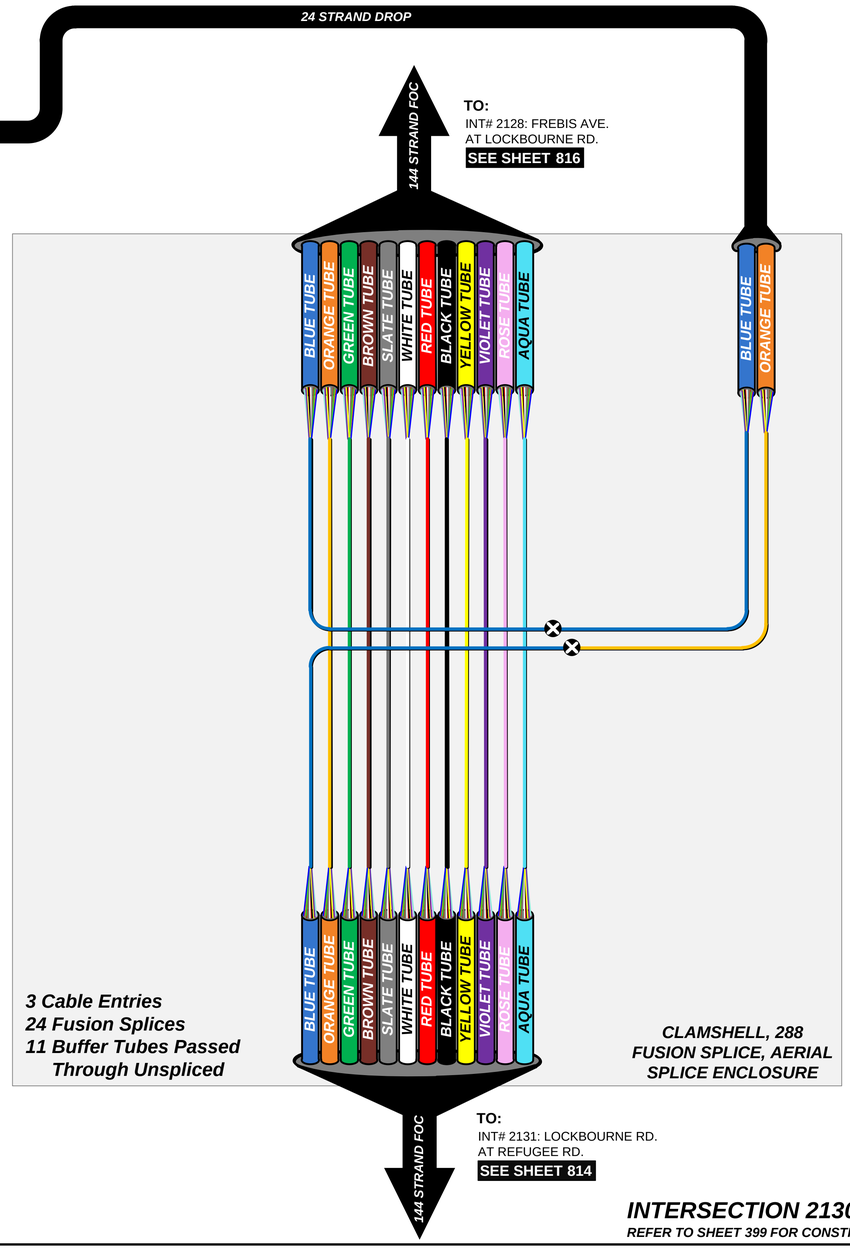
ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 2133: FAIRWOOD AVE. AT FREBIS AVE.
SEE SHEET 811

PORT 6: INT# 2135: FAIRWOOD AVE. AT REFUGEE RD.
SEE SHEET 810



PATCH PANEL ENCLOSURE – 24 TERMINATION



LEGEND

- 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 – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 2130

REFER TO SHEET 399 FOR CONSTRUCTION PLAN DETAILS

CIP: 540007 - 100005
PID NUMBER: 14522

INT# 2130: LOCKBOURNE RD. AT MARION RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

815
911

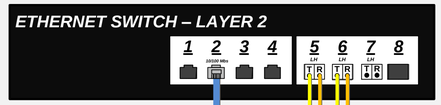
811-820.vsd - 2130 layout ~ last saved 5/2/2017 4:05:13 PM ~ printed: 9/19/2016 10:11:31 AM

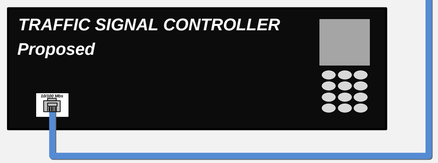
TRAFFIC SIGNAL CABINET ASSEMBLY

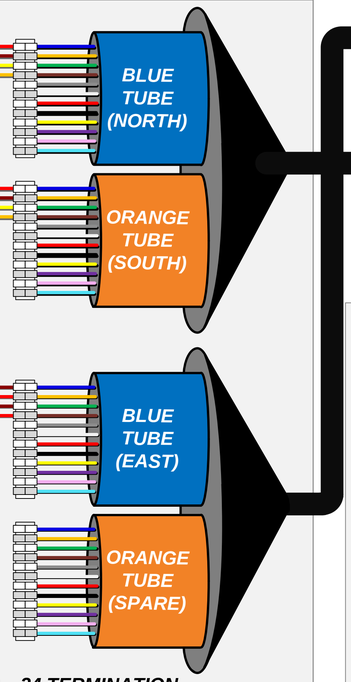
ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 2041: PARSONS AVE. AT WHITTIER ST.
SEE SHEET 778

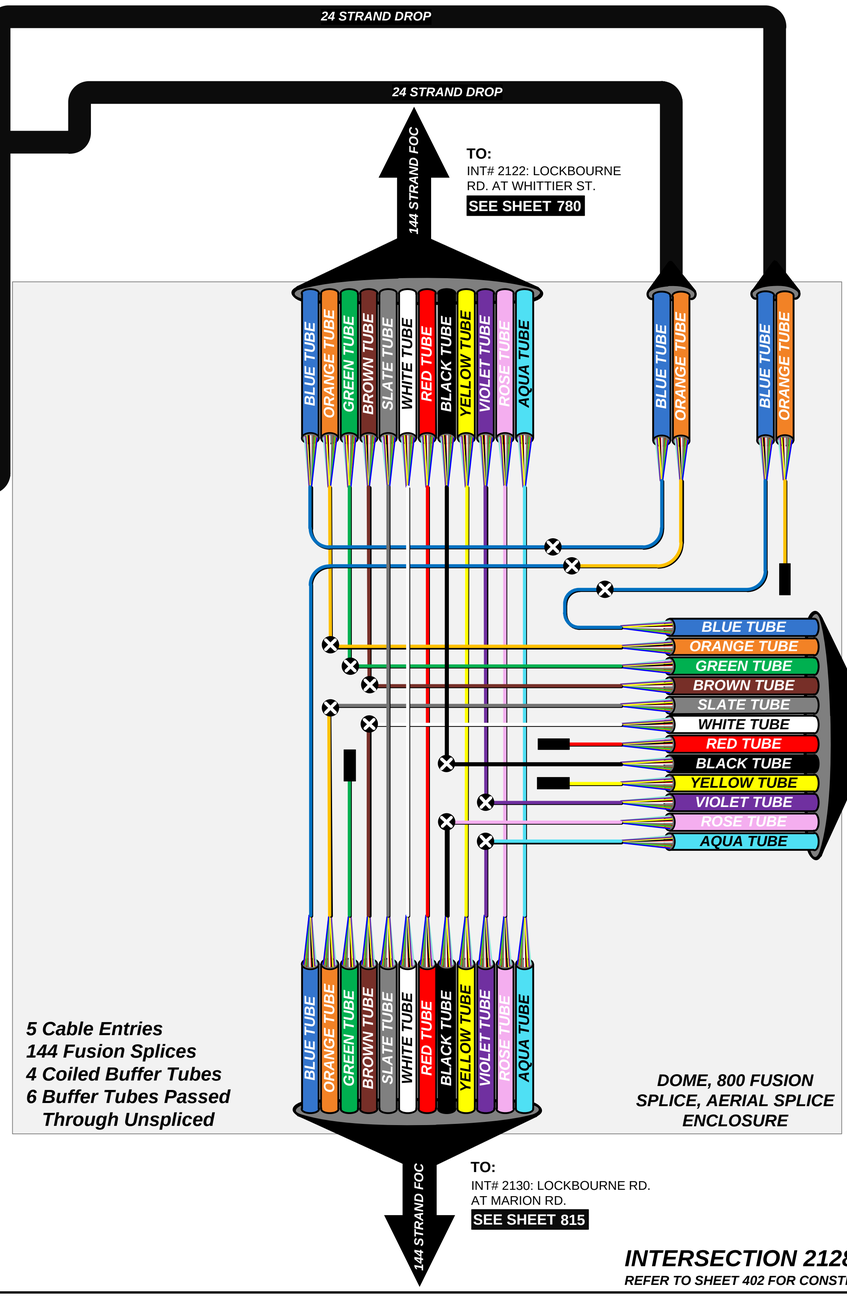
PORT 6: INT# 2131: LOCKBOURNE RD. AT REFUGEE RD.
SEE SHEET 814







PATCH PANEL ENCLOSURES: (2) – 24 TERMINATION



5 Cable Entries
144 Fusion Splices
4 Coiled Buffer Tubes
6 Buffer Tubes Passed Through Unspliced

DOME, 800 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

LEGEND

- 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 – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 2128

REFER TO SHEET 402 FOR CONSTRUCTION PLAN DETAILS

CIP: 540007 - 100005
PID NUMBER: 14522

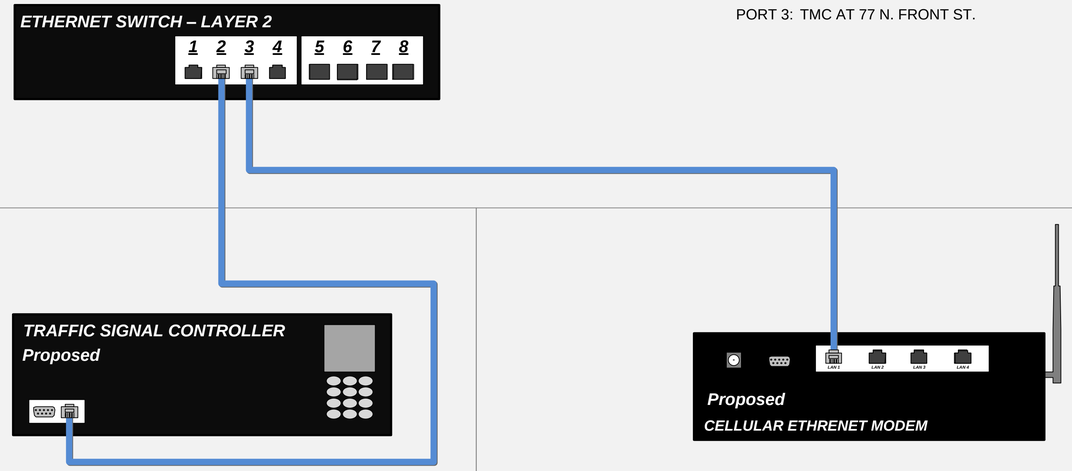
INT# 2128: FREBIS AVE. AT LOCKBOURNE RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

816
911

811-820.vsd - 2128 layout – last saved 5/2/2017 4:05:13 PM – printed: 9/19/2016 10:11:31 AM

TRAFFIC SIGNAL CABINET ASSEMBLY



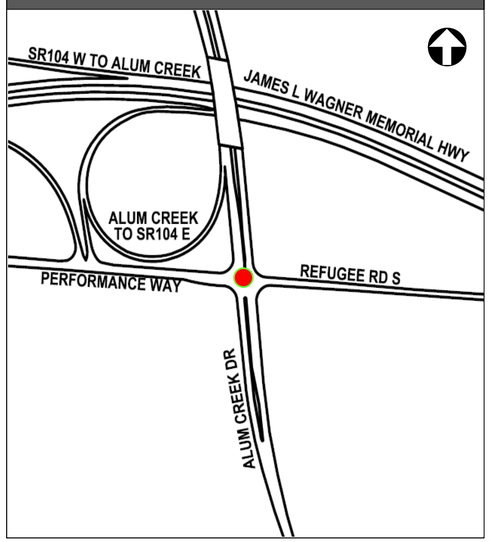
ETHERNET SWITCH PORT DESTINATION

PORT 3: TMC AT 77 N. FRONT ST.

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 2204

REFER TO SHEET 431 FOR CONSTRUCTION PLAN DETAILS

CIP: 540007 - 100005
PID NUMBER: 14522

INT# 2204: ALUM CREEK DR. AT PERFORMANCE PKWY.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

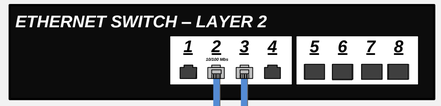
817
911

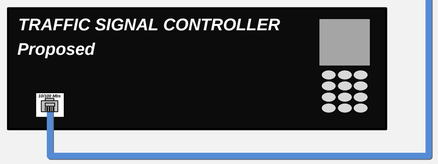
811-820.vsd - 2204 layout – last saved 5/2/2017 4:05:13 PM – printed: 9/19/2016 10:11:31 AM

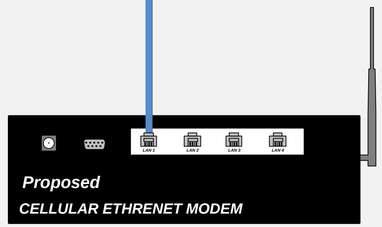
TRAFFIC SIGNAL CABINET ASSEMBLY

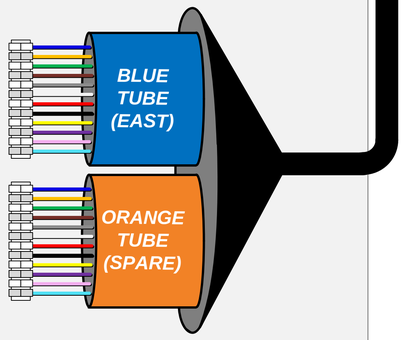
ETHERNET SWITCH PORT DESTINATION

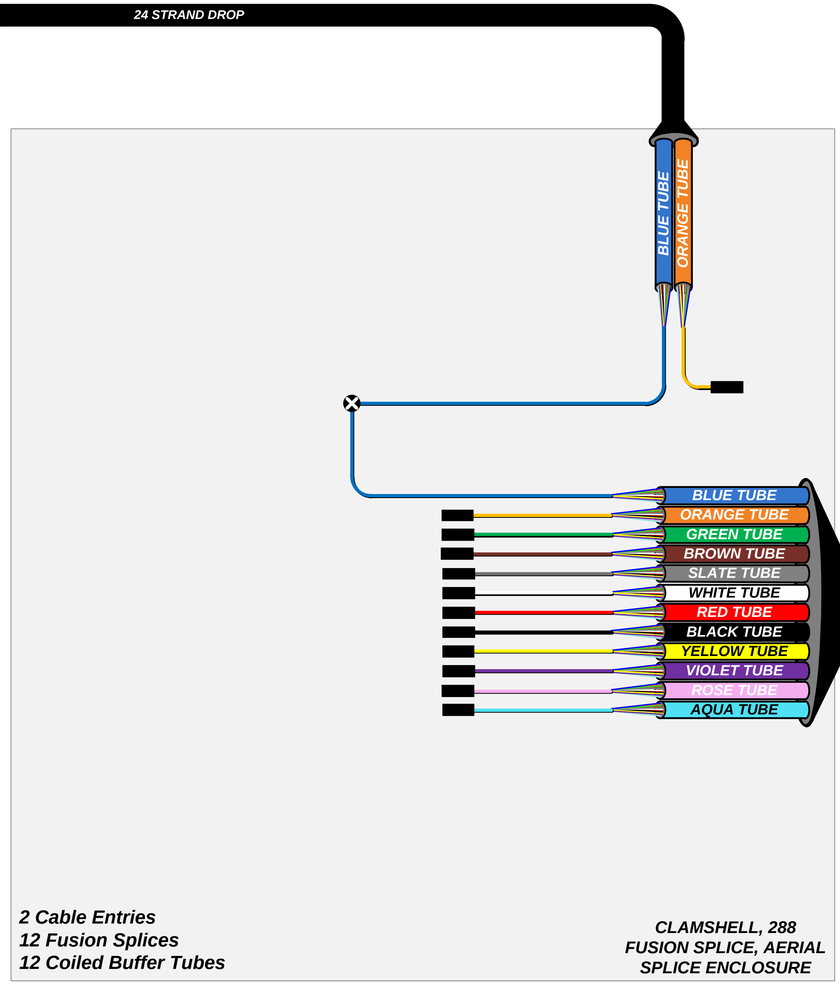
PORT 3: TMC AT 77 N. FRONT ST.











PATCH PANEL ENCLOSURE – 24 TERMINATION

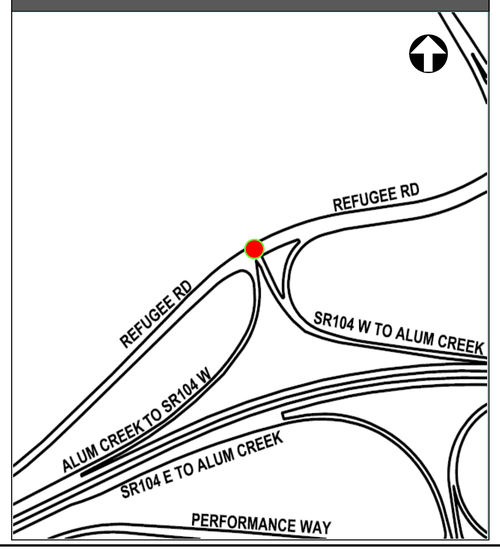
2 Cable Entries
12 Fusion Splices
12 Coiled Buffer Tubes

CLAMSHELL, 288 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 2197

REFER TO SHEET 433 FOR CONSTRUCTION PLAN DETAILS

CIP: 540007 - 100005
PID NUMBER: 14522

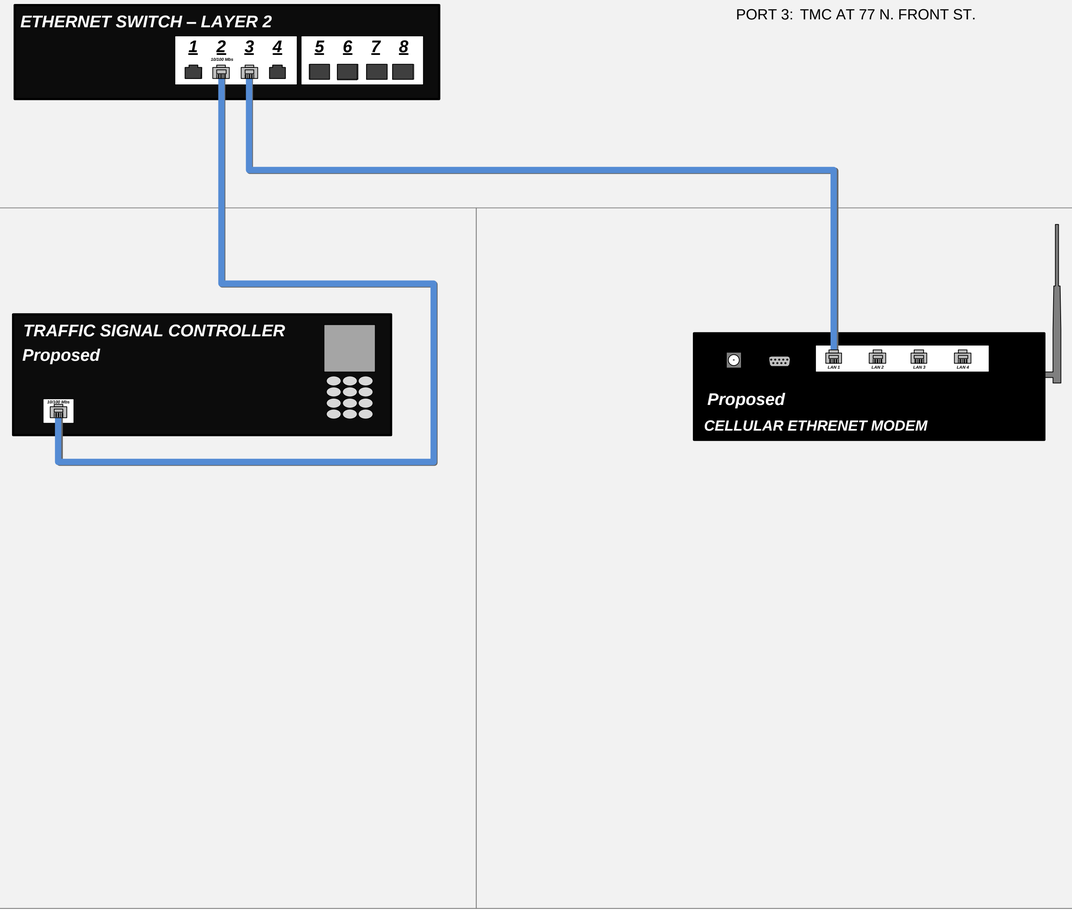
INT# 2197: REFUGEE RD. AT SR-104 WB RAMPS
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

818
911

811-820.vsd - 2197 layout ~ last saved 5/2/2017 4:05:13 PM ~ printed: 9/19/2016 10:11:31 AM

TRAFFIC SIGNAL CABINET ASSEMBLY



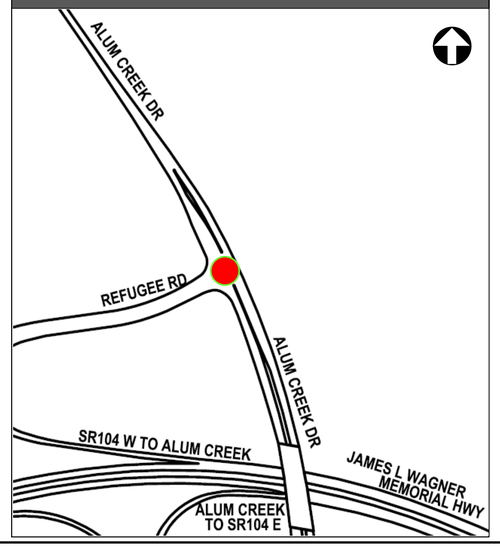
ETHERNET SWITCH PORT DESTINATION

PORT 3: TMC AT 77 N. FRONT ST.

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 2138

REFER TO SHEET 432 FOR CONSTRUCTION PLAN DETAILS

CIP: 540007 - 100005
PID NUMBER: 14522

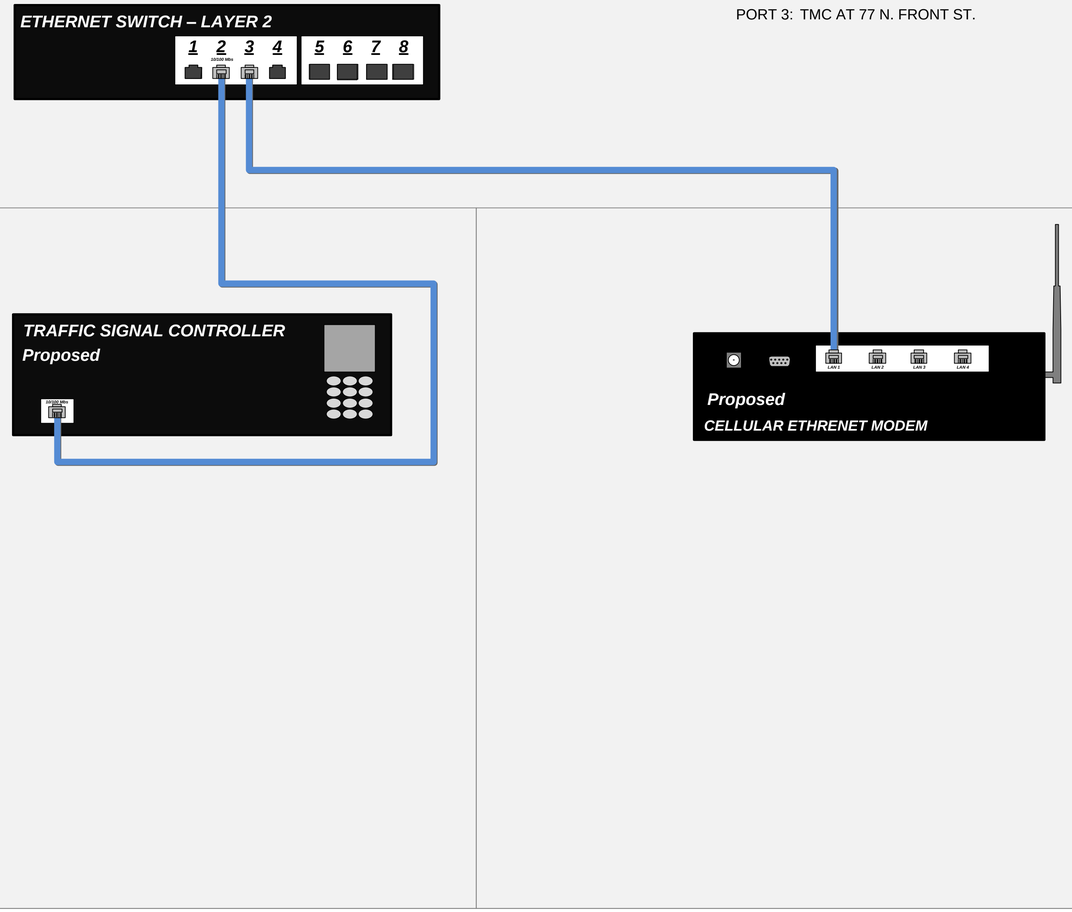
INT# 2138: ALUM CREEK DR. AT REFUGEE RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

819
911

811-820.vsd - 2138 layout – last saved 5/2/2017 4:05:13 PM – printed: 9/19/2016 10:11:31 AM

TRAFFIC SIGNAL CABINET ASSEMBLY



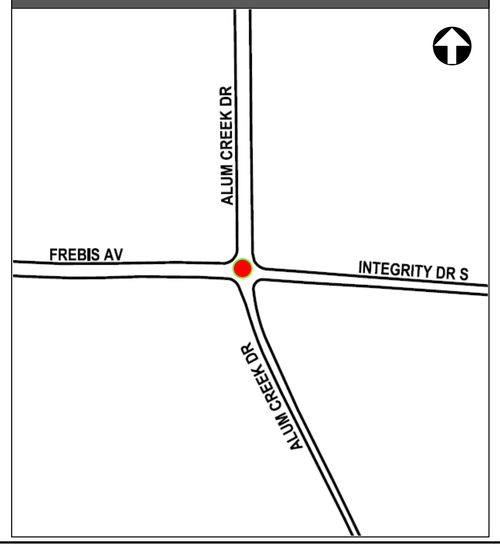
ETHERNET SWITCH PORT DESTINATION

PORT 3: TMC AT 77 N. FRONT ST.

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 2137

REFER TO SHEET 437 FOR CONSTRUCTION PLAN DETAILS

CIP: 540007 - 100005
PID NUMBER: 14522

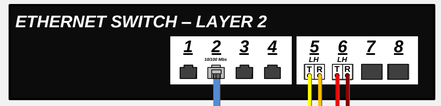
INT# 2137: ALUM CREEK DR. AT FREBIS AVE.
COMMUNICATIONS DIAGRAM

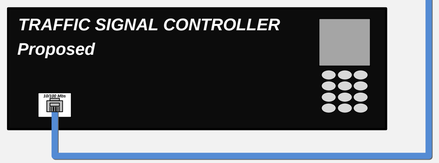
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

820
911

811-820.vsd - 2137 layout ~ last saved 5/2/2017 4:05:13 PM ~ printed: 9/19/2016 10:11:31 AM

TRAFFIC SIGNAL CABINET ASSEMBLY

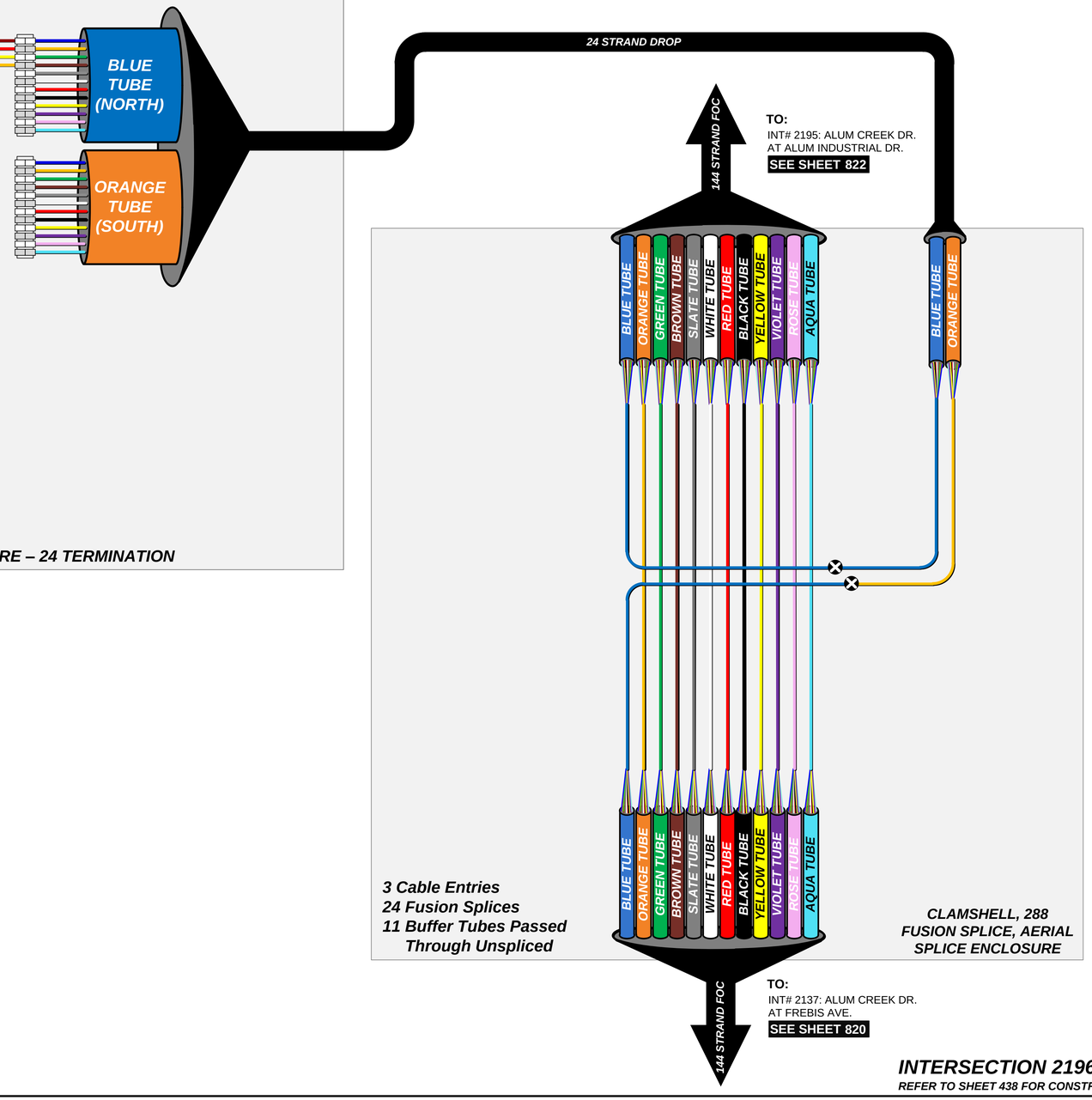




ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 2195: ALUM CREEK DR. AT ALUM INDUSTRIAL DR.
SEE SHEET 822

PORT 6: INT# 2001: ALUM CREEK DR. AT I-70 EB RAMPS
SEE SHEET 823

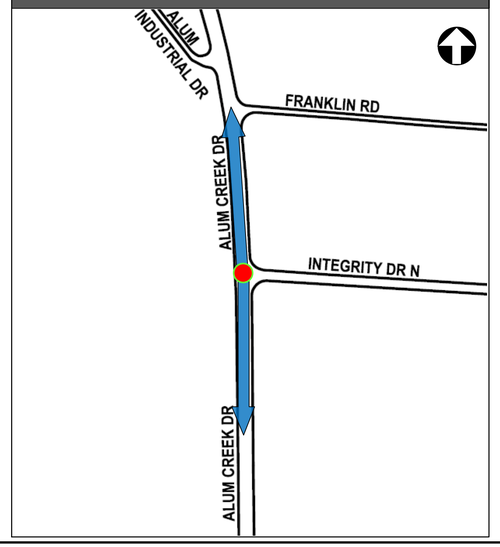


PATCH PANEL ENCLOSURE – 24 TERMINATION

LEGEND

- 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 – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 2196

REFER TO SHEET 438 FOR CONSTRUCTION PLAN DETAILS

CIP: 540007 - 100005
PID NUMBER: 14522

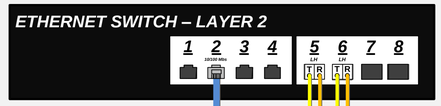
INT# 2196: ALUM CREEK DR. AT INTEGRITY DR N.
COMMUNICATIONS DIAGRAM

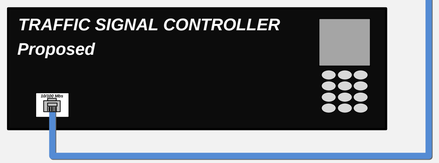
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

821
911

821-834.vsd - 2196 layout ~ last saved 5/2/2017 4:06:24 PM ~ printed: 3/11/2016 12:26:37 PM

TRAFFIC SIGNAL CABINET ASSEMBLY

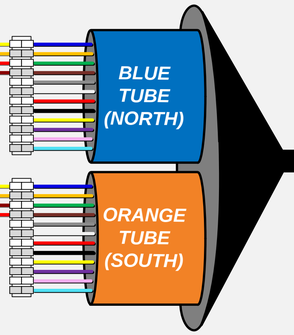




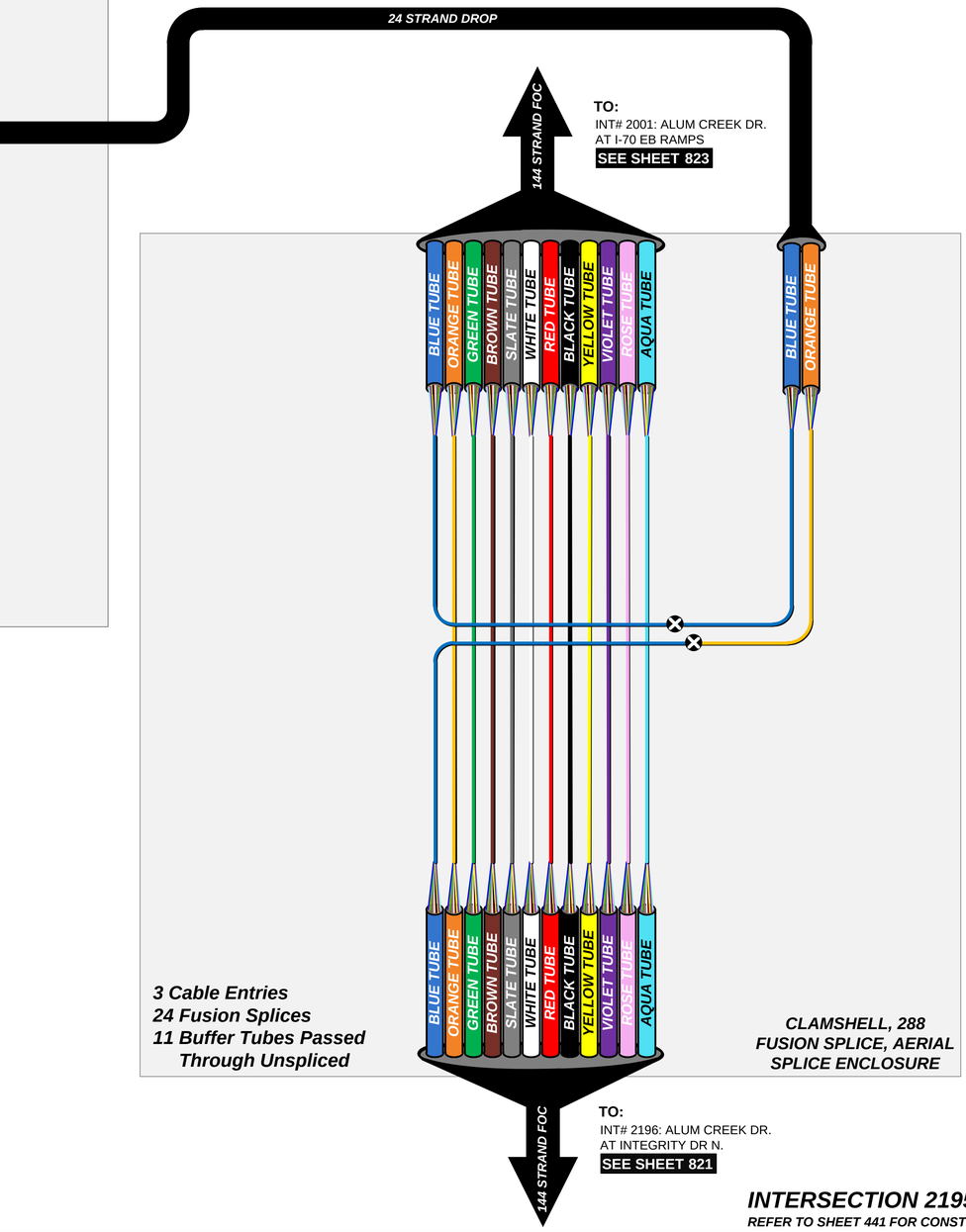
ETHERNET SWITCH PORT DESTINATION

PORT 5: PROPOSED COMMUNICATION NODE# 070103.1: IR-70 AT LIVINGSTON AVE.
SEE SHEET 870

PORT 6: INT# 2196: ALUM CREEK DR. AT INTEGRITY DR N.
SEE SHEET 821



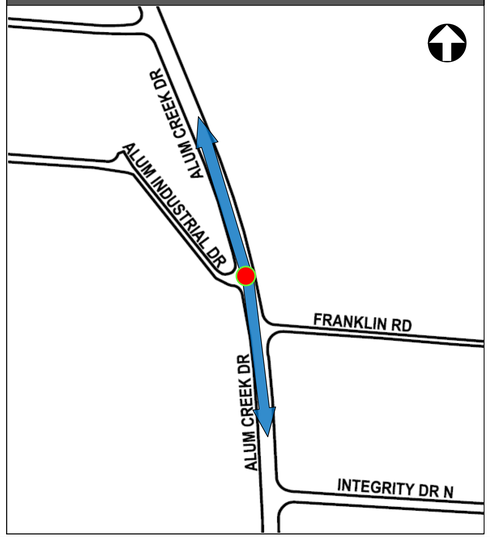
PATCH PANEL ENCLOSURE – 24 TERMINATION



LEGEND

- 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 – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 2195

REFER TO SHEET 441 FOR CONSTRUCTION PLAN DETAILS

CIP: 540007 - 100005
PID NUMBER: 14522

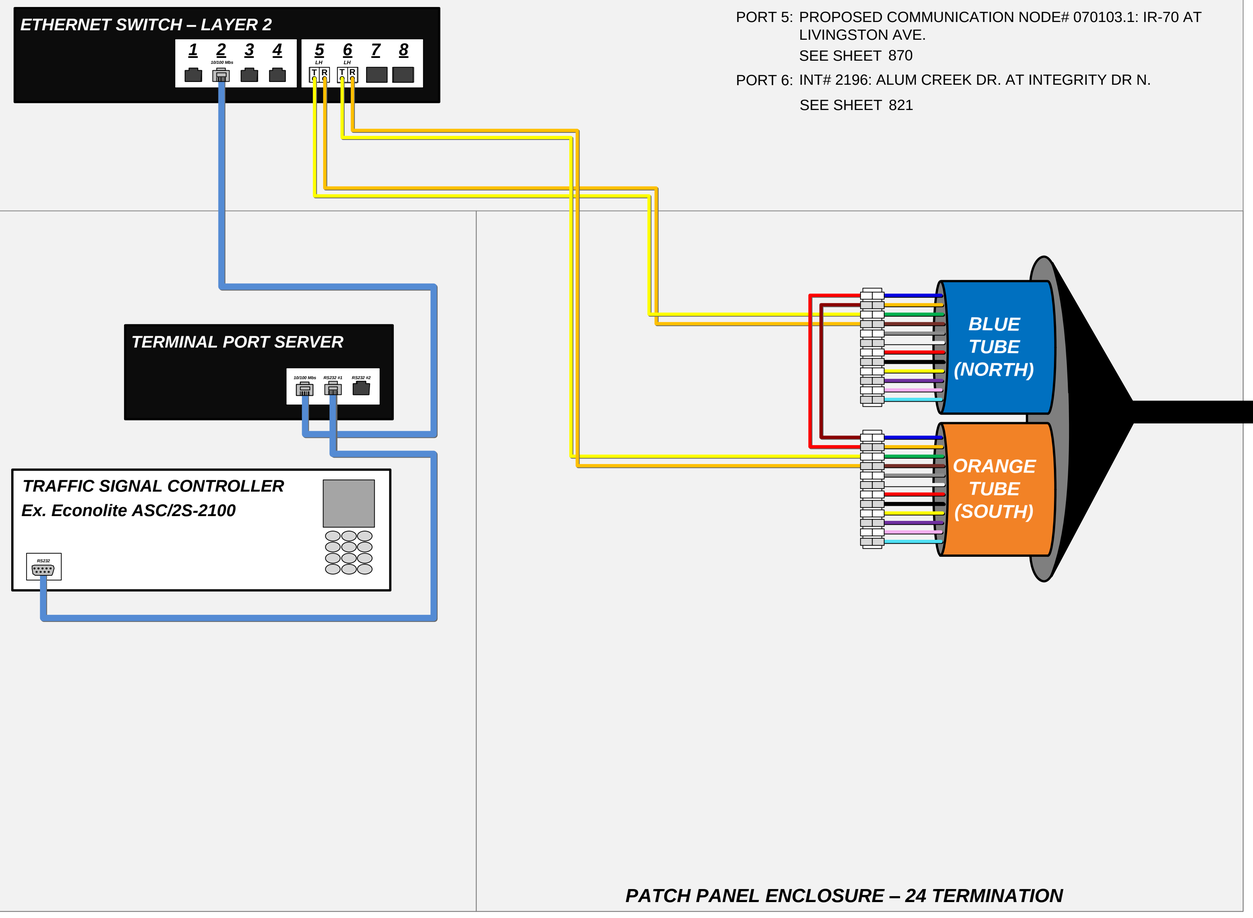
INT# 2195: ALUM CREEK DR. AT ALUM INDUSTRIAL DR.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

822
911

821-834.vsd - 2195 layout ~ last saved 5/2/2017 4:06:24 PM ~ printed: 3/11/2016 12:26:37 PM

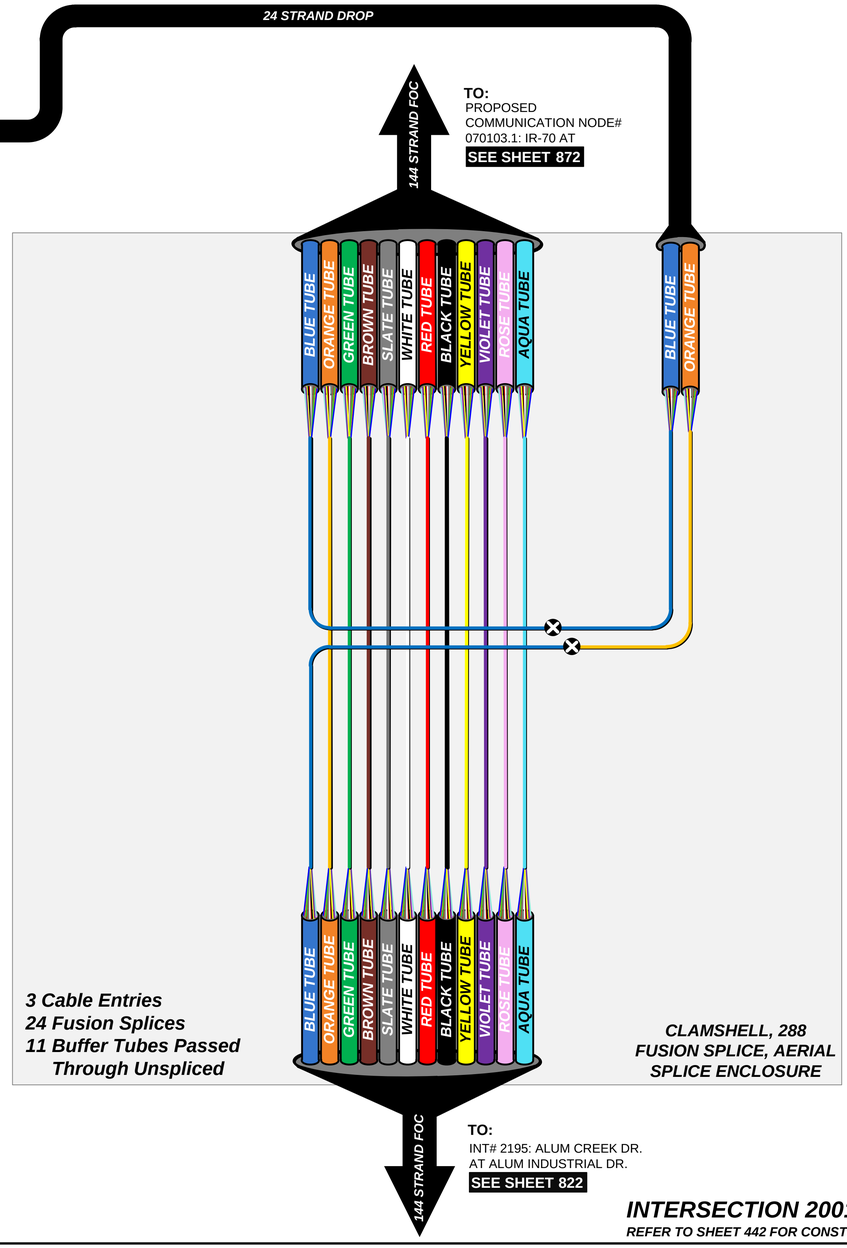
TRAFFIC SIGNAL CABINET ASSEMBLY



ETHERNET SWITCH PORT DESTINATION

PORT 5: PROPOSED COMMUNICATION NODE# 070103.1: IR-70 AT LIVINGSTON AVE.
SEE SHEET 870

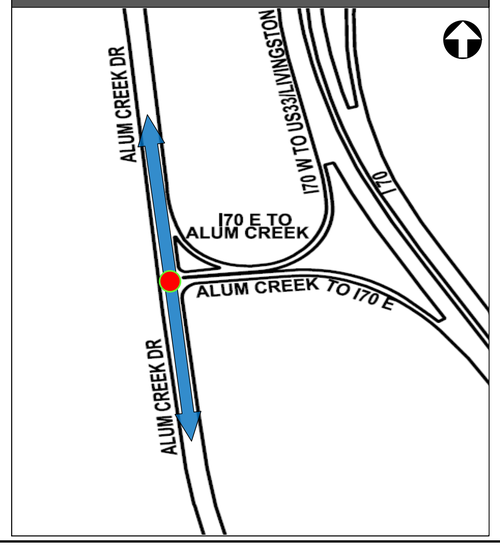
PORT 6: INT# 2196: ALUM CREEK DR. AT INTEGRITY DR N.
SEE SHEET 821



LEGEND

- 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 – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 2001

REFER TO SHEET 442 FOR CONSTRUCTION PLAN DETAILS

CIP: 540007 - 100005
PID NUMBER: 14522

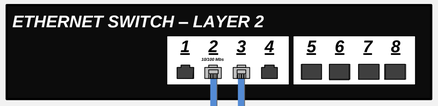
INT# 2001: ALUM CREEK DR. AT I-70 EB RAMPS
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

823
911

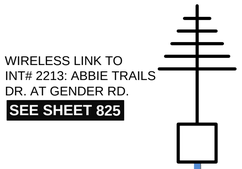
821-834.vsd - 2001 layout ~ last saved 5/2/2017 4:06:24 PM ~ printed: 3/11/2016 12:26:37 PM

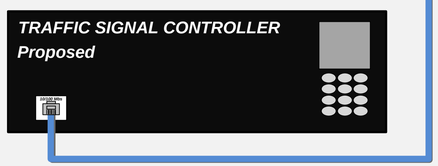
TRAFFIC SIGNAL CABINET ASSEMBLY



ETHERNET SWITCH PORT DESTINATION

PORT 3: INT# 2213: ABBIE TRAILS DR. AT GENDER RD.
SEE SHEET 825

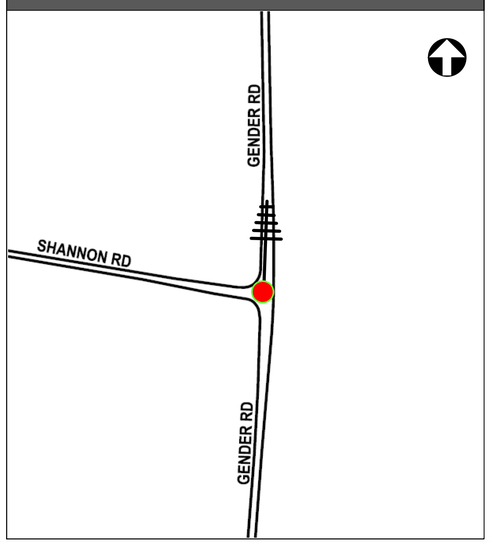




LEGEND

- 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 – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 2214

REFER TO SHEET 459 FOR CONSTRUCTION PLAN DETAILS

CIP: 540007 - 100005
PID NUMBER: 14522

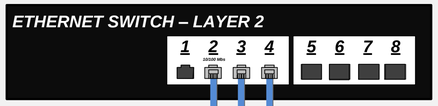
INT# 2214: GENDER RD. AT SHANNON RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

824
911

821-834.vsd - 2214 layout - last saved 5/2/2017 4:06:24 PM - printed: 3/11/2016 12:26:37 PM

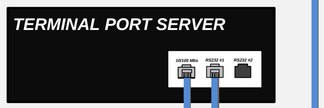
TRAFFIC SIGNAL CABINET ASSEMBLY

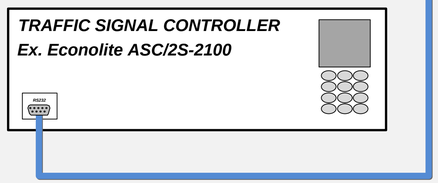


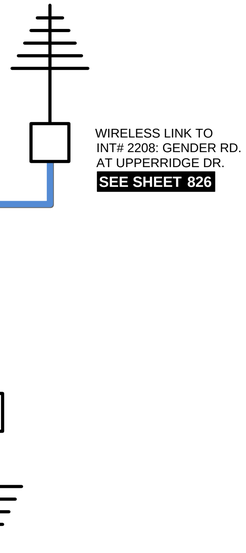
ETHERNET SWITCH PORT DESTINATION

PORT 3: INT# 2214: GENDER RD. AT SHANNON RD.
SEE SHEET 824

PORT 4: INT# 2208: GENDER RD. AT UPPERRIDGE DR.
SEE SHEET 826



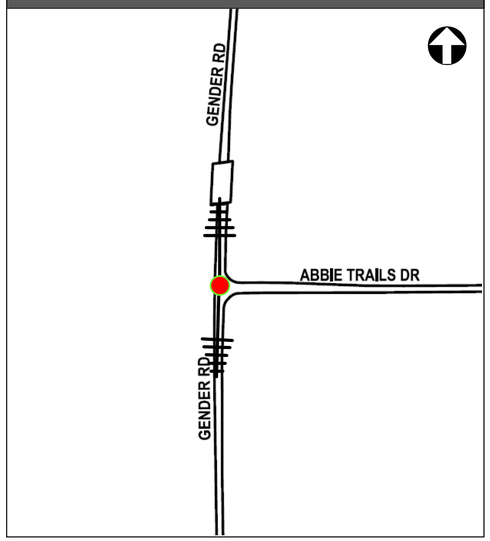




LEGEND

- 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 – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 2213

REFER TO SHEET 461 FOR CONSTRUCTION PLAN DETAILS

CIP: 540007 - 100005
PID NUMBER: 14522

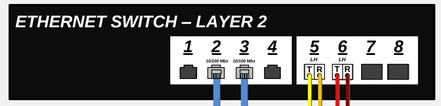
INT# 2213: ABBIE TRAILS DR. AT GENDER RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

825
911

821-834.vsd - 2213 layout ~ last saved 5/2/2017 4:06:24 PM ~ printed: 3/11/2016 12:26:37 PM

TRAFFIC SIGNAL CABINET ASSEMBLY

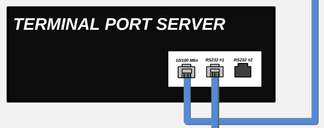


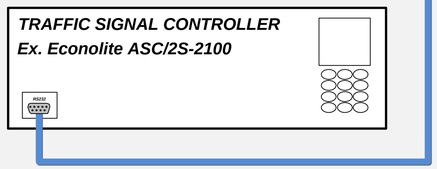
ETHERNET SWITCH PORT DESTINATION

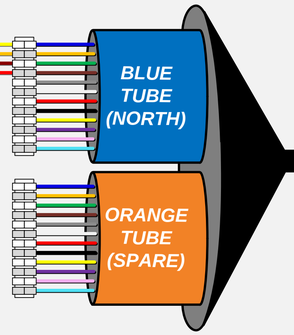
PORT 3: INT# 2213: ABBIE TRAILS DR. AT GENDER RD.
SEE SHEET 825

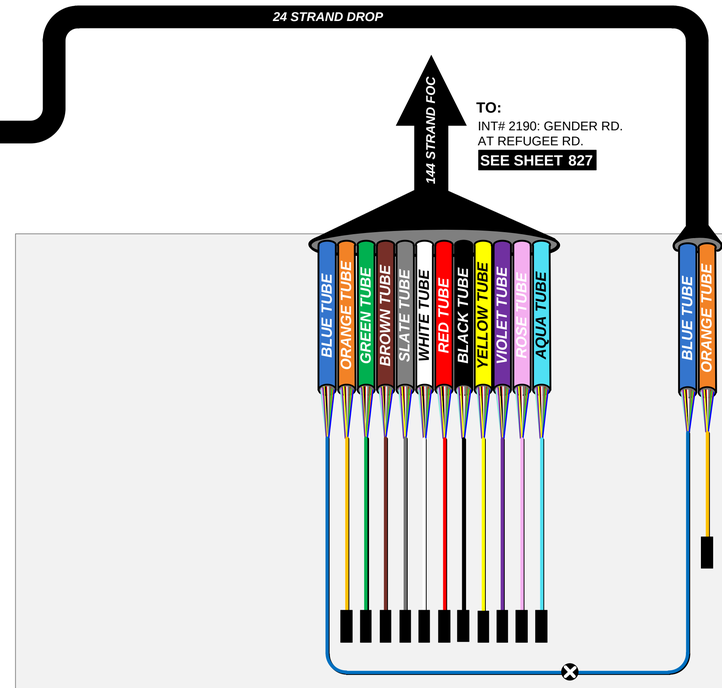
PORT 5: INT# 2198: CENTENNIAL DR. AT GENDER RD.
SEE SHEET 828

PORT 6: INT# 2190: GENDER RD. AT REFUGEE RD.
SEE SHEET 827









2 Cable Entries
12 Fusion Splices
12 Coiled Buffer Tubes

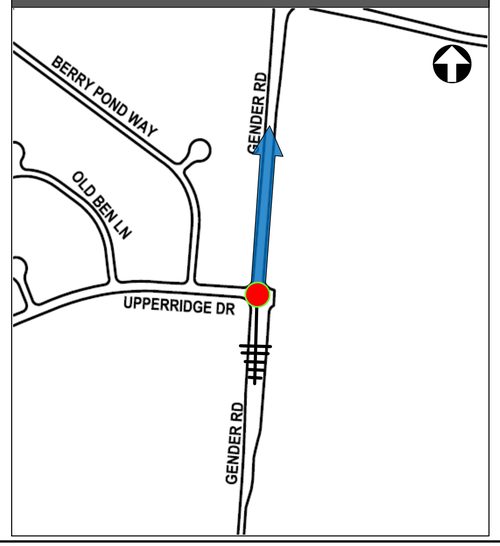
CLAMSHELL, 288
FUSION SPLICE, AERIAL
SPLICE ENCLOSURE

PATCH PANEL ENCLOSURE – 24 TERMINATION

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 2208
REFER TO SHEET 462 FOR CONSTRUCTION PLAN DETAILS

CIP: 540007 - 100005
PID NUMBER: 14522

INT# 2208: GENDER RD. AT UPPERRIDGE DR.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

826
911

821-834.vsd - 2208 layout ~ last saved 5/2/2017 4:06:24 PM ~ printed: 3/11/2016 12:26:37 PM

TRAFFIC SIGNAL CABINET ASSEMBLY

ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 2188: BRICE RD. AT GENDER RD.
SEE SHEET 829

PORT 6: PROPOSED COMMUNICATION NODE# 270045.5: HAMILTON RD. AT IR-270
SEE SHEET 890

ETHERNET SWITCH – LAYER 2

1 2 3 4 5 6 7 8

TERMINAL PORT SERVER

TRAFFIC SIGNAL CONTROLLER
Ex. Econolite ASC/2S-2100

CCTV FIELD BOX

VIDEO/PTZ IP DATA
CCTV/HEATER POWER
10/100 Mbs
ANALOG VIDEO

PATCH PANEL ENCLOSURES: (2) – 24 TERMINATION

COMPOSITE CCTV CABLE

BLUE TUBE (NORTH)
ORANGE TUBE (SOUTH)
BLUE TUBE (SPARE)
ORANGE TUBE (WEST)

PROPOSED CCTV

24 STRAND DROP
24 STRAND DROP

144 STRAND FOC

TO:
INT# 2198: CENTENNIAL DR. AT GENDER RD.
SEE SHEET 828

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# 2202: BRICE RD. AT CHATTERTON RD./ REFUGEE RD.
SEE SHEET 830

5 Cable Entries
168 Fusion Splices
6 Coiled Buffer Tubes
3 Buffer Tubes Passed Through Unspliced

DOME, 800 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

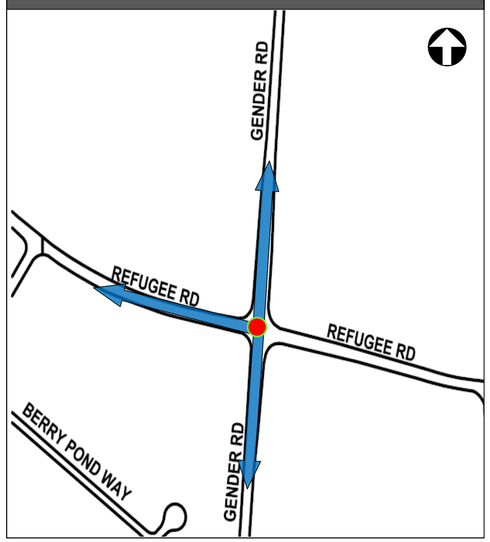
144 STRAND FOC

TO:
INT# 2208: GENDER RD. AT UPPERRIDGE DR.
SEE SHEET 826

LEGEND

- 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 – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX T R — GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 2190
REFER TO SHEET 464 FOR CONSTRUCTION PLAN DETAILS

CIP: 540007 - 100005
PID NUMBER: 14522

INT# 2190: GENDER RD. AT REFUGEE RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

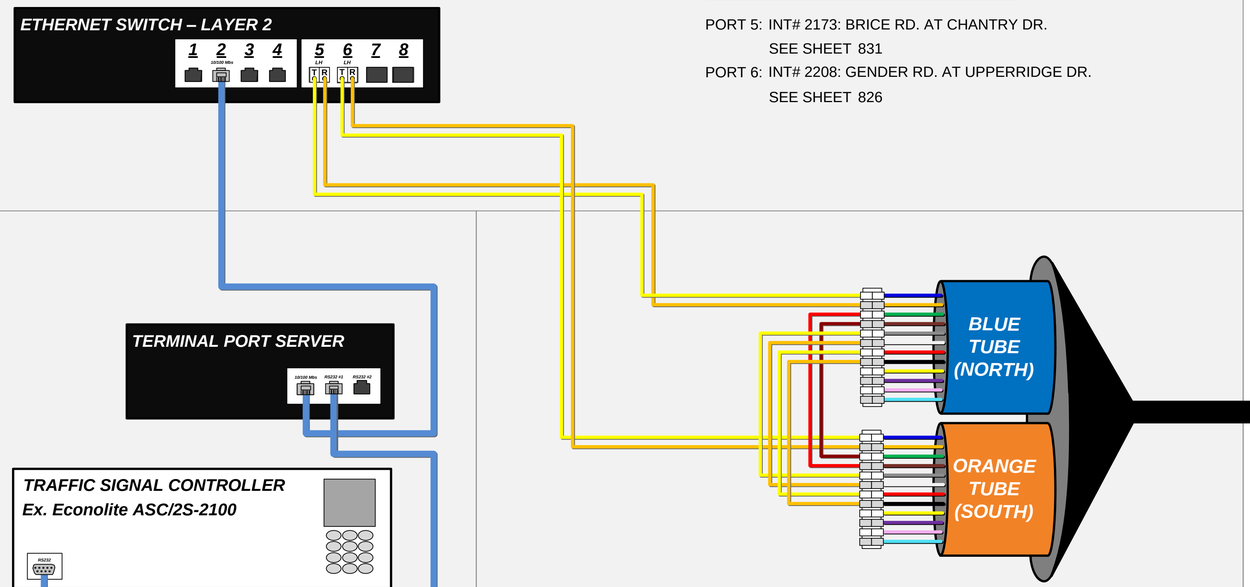
821-834.vsd - 2190 layout ~ last saved 5/2/2017 4:06:24 PM ~ printed: 3/11/2016 12:26:37 PM

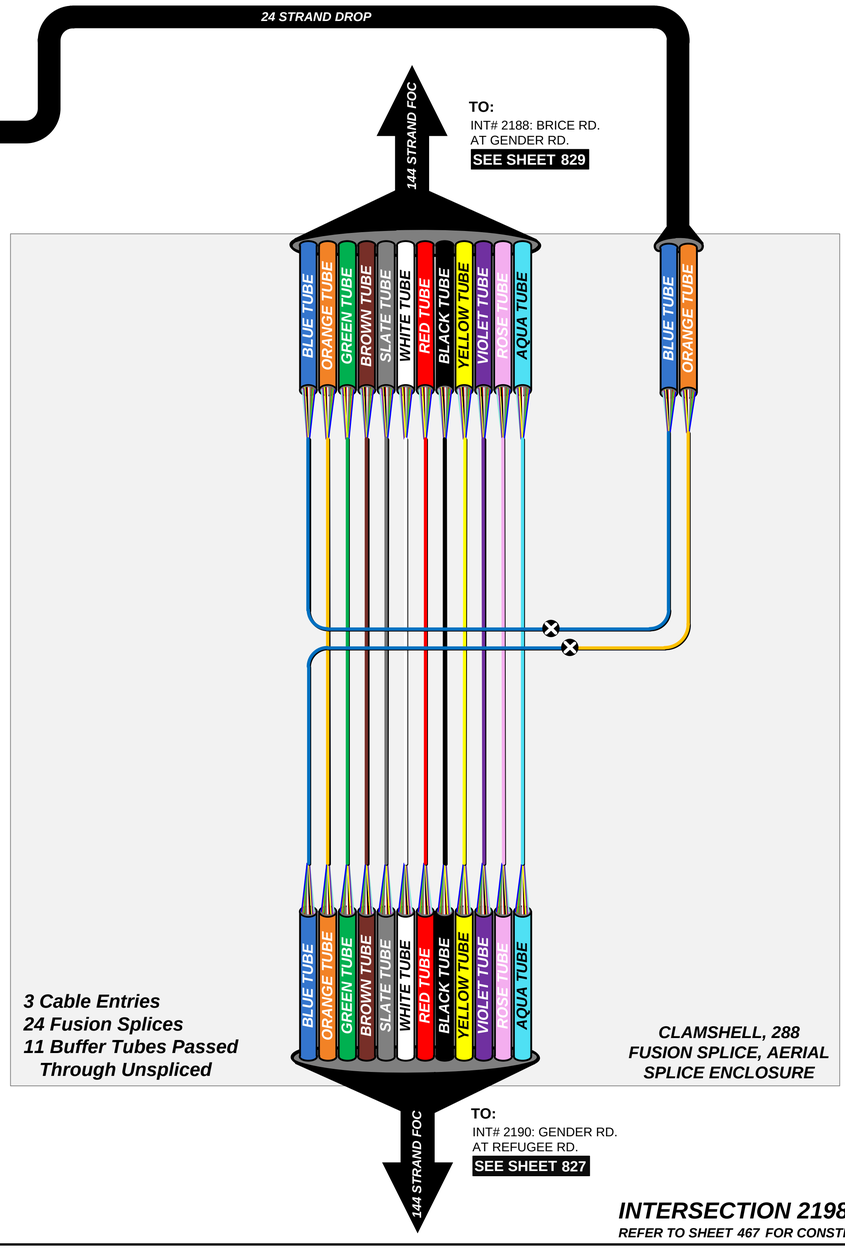
TRAFFIC SIGNAL CABINET ASSEMBLY

ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 2173: BRICE RD. AT CHANTRY DR.
SEE SHEET 831

PORT 6: INT# 2208: GENDER RD. AT UPPERRIDGE DR.
SEE SHEET 826



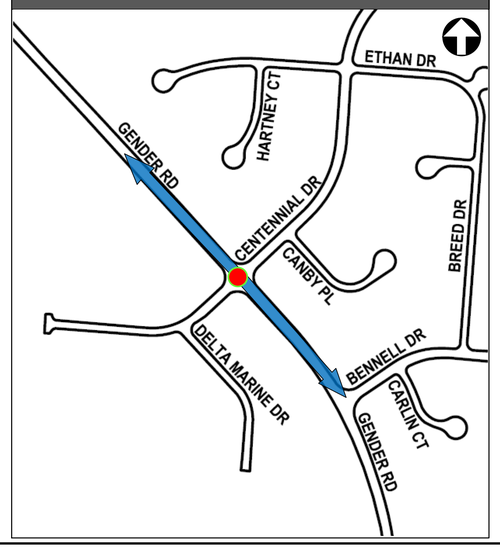


PATCH PANEL ENCLOSURE – 24 TERMINATION

LEGEND

- 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 – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 2198

REFER TO SHEET 467 FOR CONSTRUCTION PLAN DETAILS

CIP: 540007 - 100005
PID NUMBER: 14522

INT# 2198: CENTENNIAL DR. AT GENDER RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

828
911

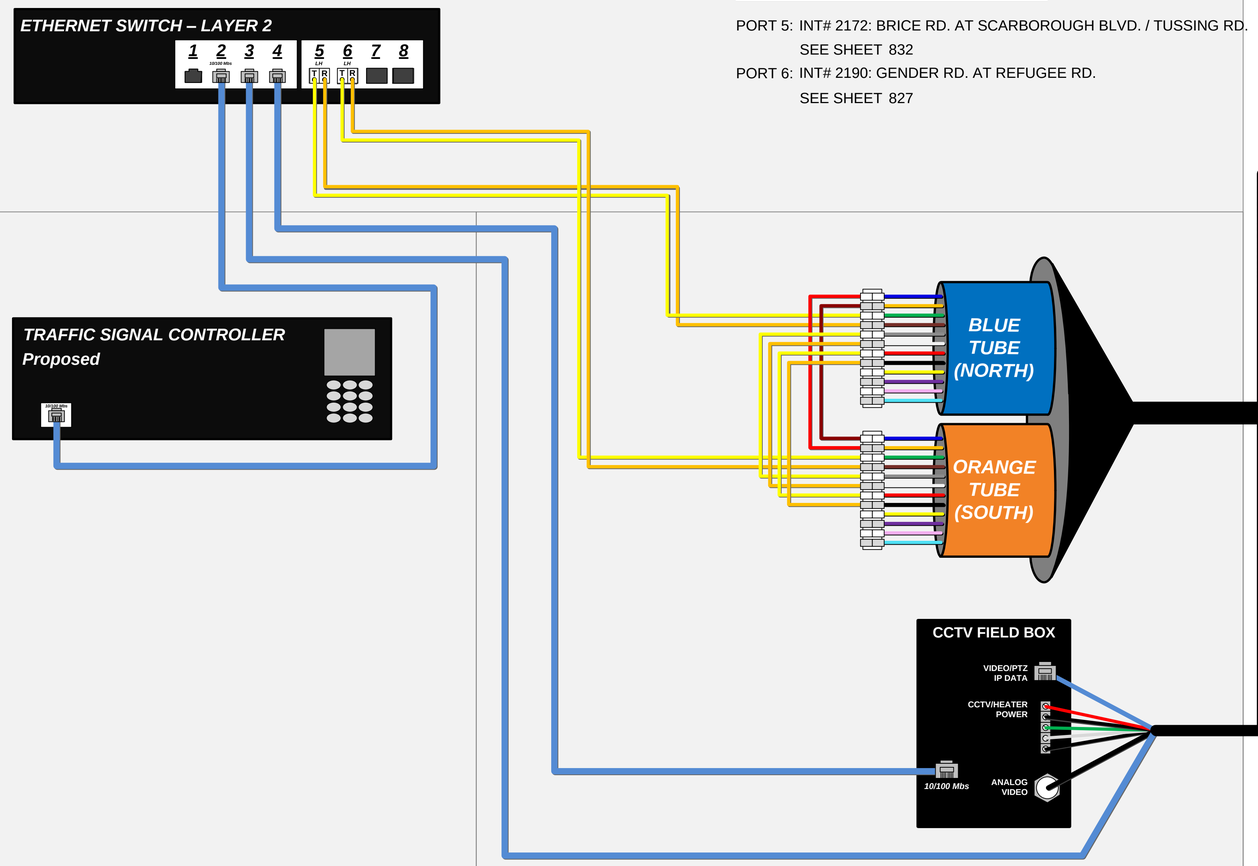
821-834.vsd - 2198 layout ~ last saved 5/2/2017 4:06:24 PM ~ printed: 3/11/2016 12:26:37 PM

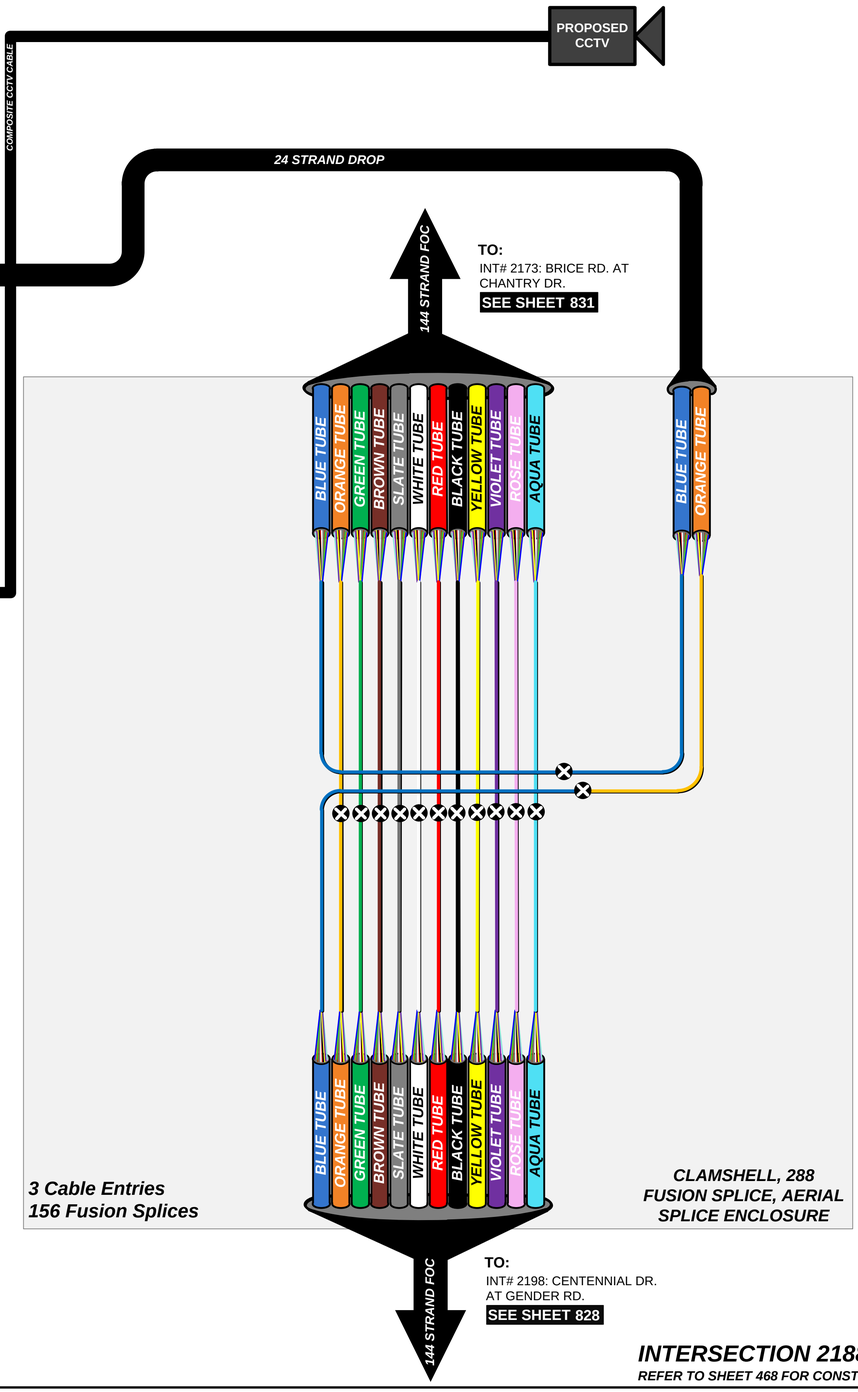
TRAFFIC SIGNAL CABINET ASSEMBLY

ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 2172: BRICE RD. AT SCARBOROUGH BLVD. / TUSSING RD.
SEE SHEET 832

PORT 6: INT# 2190: GENDER RD. AT REFUGEE RD.
SEE SHEET 827

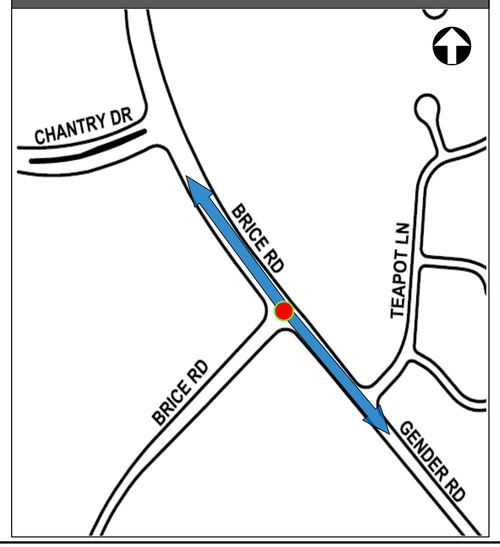




LEGEND

- 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 – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 2188

REFER TO SHEET 468 FOR CONSTRUCTION PLAN DETAILS

CIP: 540007 - 100005
PID NUMBER: 14522

INT# 2188: BRICE RD. AT GENDER RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

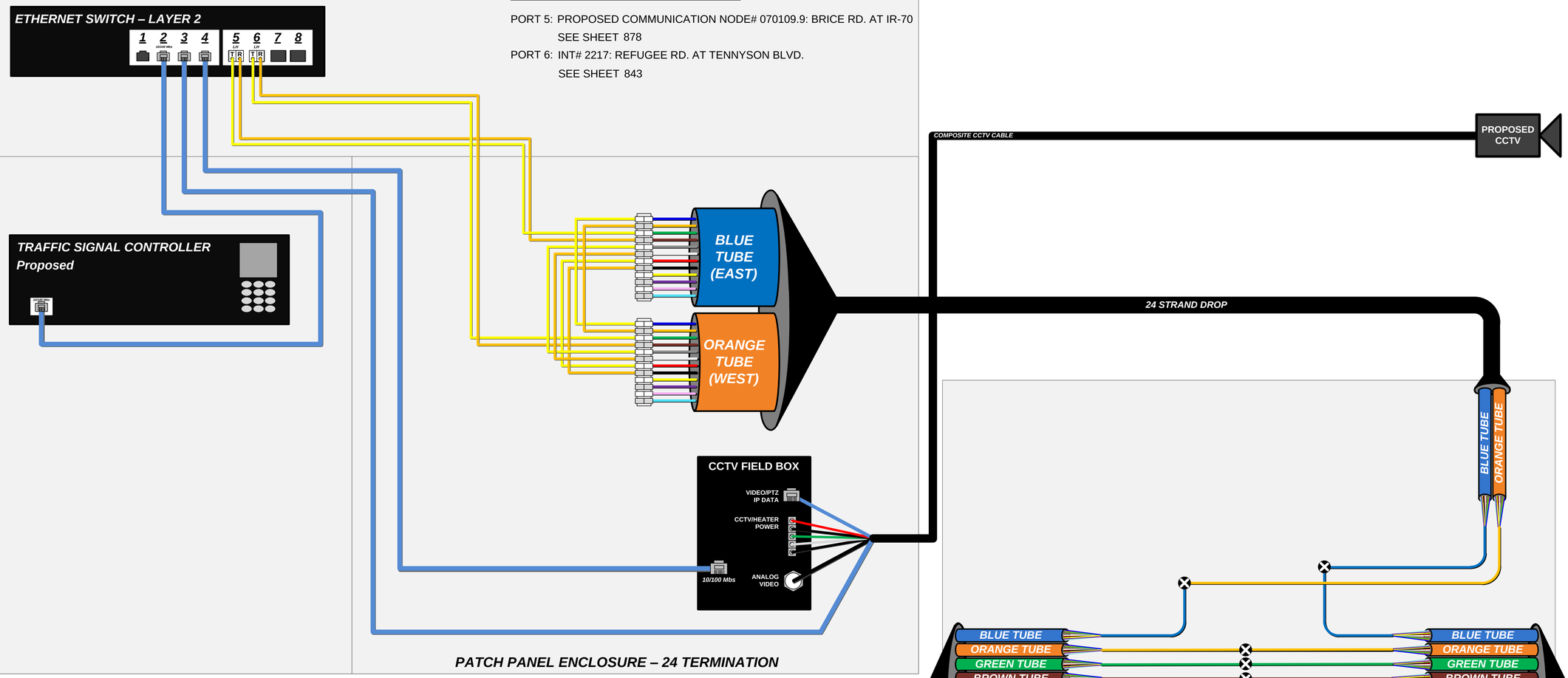
821-834.vsd - 2188 layout ~ last saved 5/2/2017 4:06:24 PM ~ printed: 3/11/2016 12:26:37 PM

TRAFFIC SIGNAL CABINET ASSEMBLY

ETHERNET SWITCH PORT DESTINATION

PORT 5: PROPOSED COMMUNICATION NODE# 070109.9: BRICE RD. AT IR-70
SEE SHEET 878

PORT 6: INT# 2217: REFUGEE RD. AT TENNYSON BLVD.
SEE SHEET 843



PATCH PANEL ENCLOSURE – 24 TERMINATION

TO:
INT# SIG4245: CHATTERTON RD. AT NOE-BIXBY RD.
SEE SHEET 839

TO:
INT# 2190: GENDER RD. AT REFUGEE RD.
SEE SHEET 827

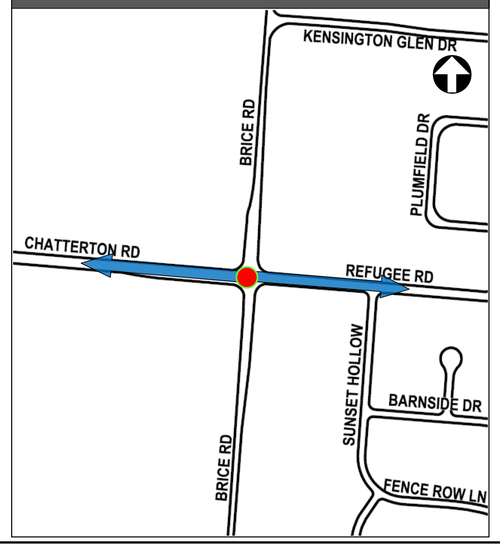
3 Cable Entries
156 Fusion Splices

CLAMSHELL, 288 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

LEGEND

- 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 – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- *LH/ZX* GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 2202
REFER TO SHEET 507 FOR CONSTRUCTION PLAN DETAILS

CIP: 540007 - 100005
PID NUMBER: 14522

INT# 2202: BRICE RD. AT CHATTERTON RD./ REFUGEE RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

830
911

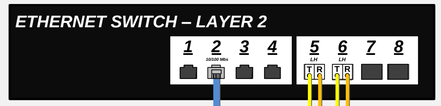
821-834.vsd - 2202 layout ~ last saved 5/2/2017 4:06:24 PM ~ printed: 3/11/2016 12:26:37 PM

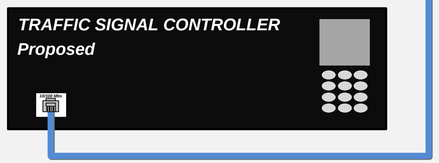
TRAFFIC SIGNAL CABINET ASSEMBLY

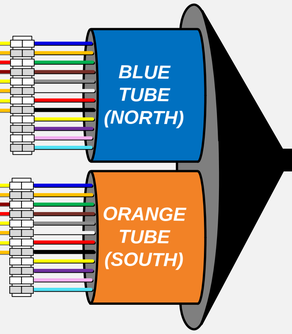
ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 2210: BRICE RD. AT I-70 EB RAMPS
SEE SHEET 834

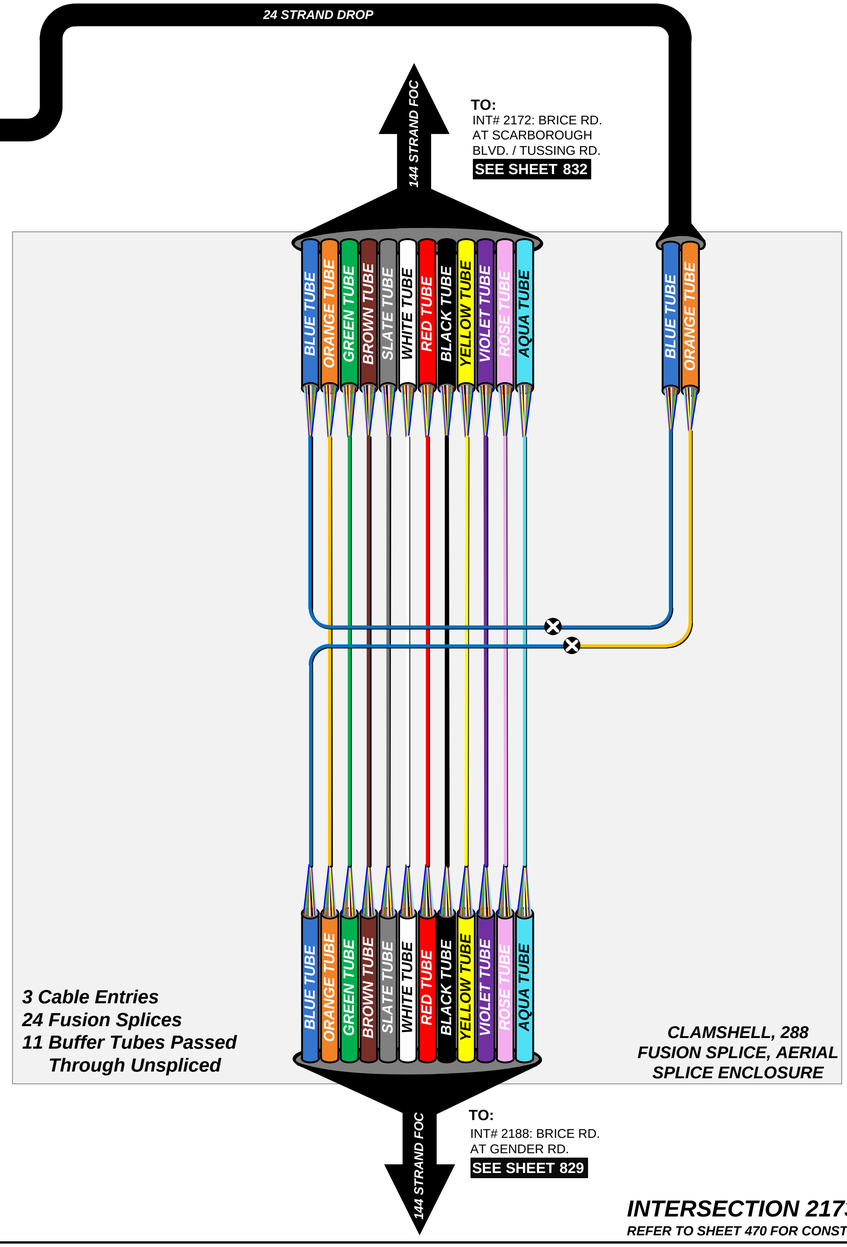
PORT 6: INT# 2198: CENTENNIAL DR. AT GENDER RD.
SEE SHEET 828







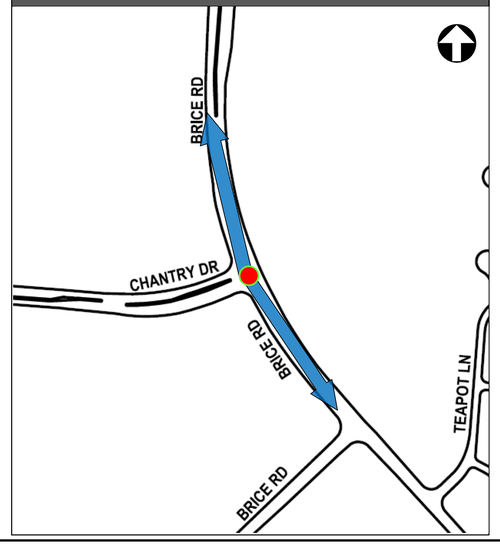
PATCH PANEL ENCLOSURE – 24 TERMINATION



LEGEND

- 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 – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 2173

REFER TO SHEET 470 FOR CONSTRUCTION PLAN DETAILS

CIP: 540007 - 100005
PID NUMBER: 14522

INT# 2173: BRICE RD. AT CHANTRY DR.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

821-834.vsd - 2173 layout ~ last saved 5/2/2017 4:06:24 PM ~ printed: 3/11/2016 12:26:37 PM

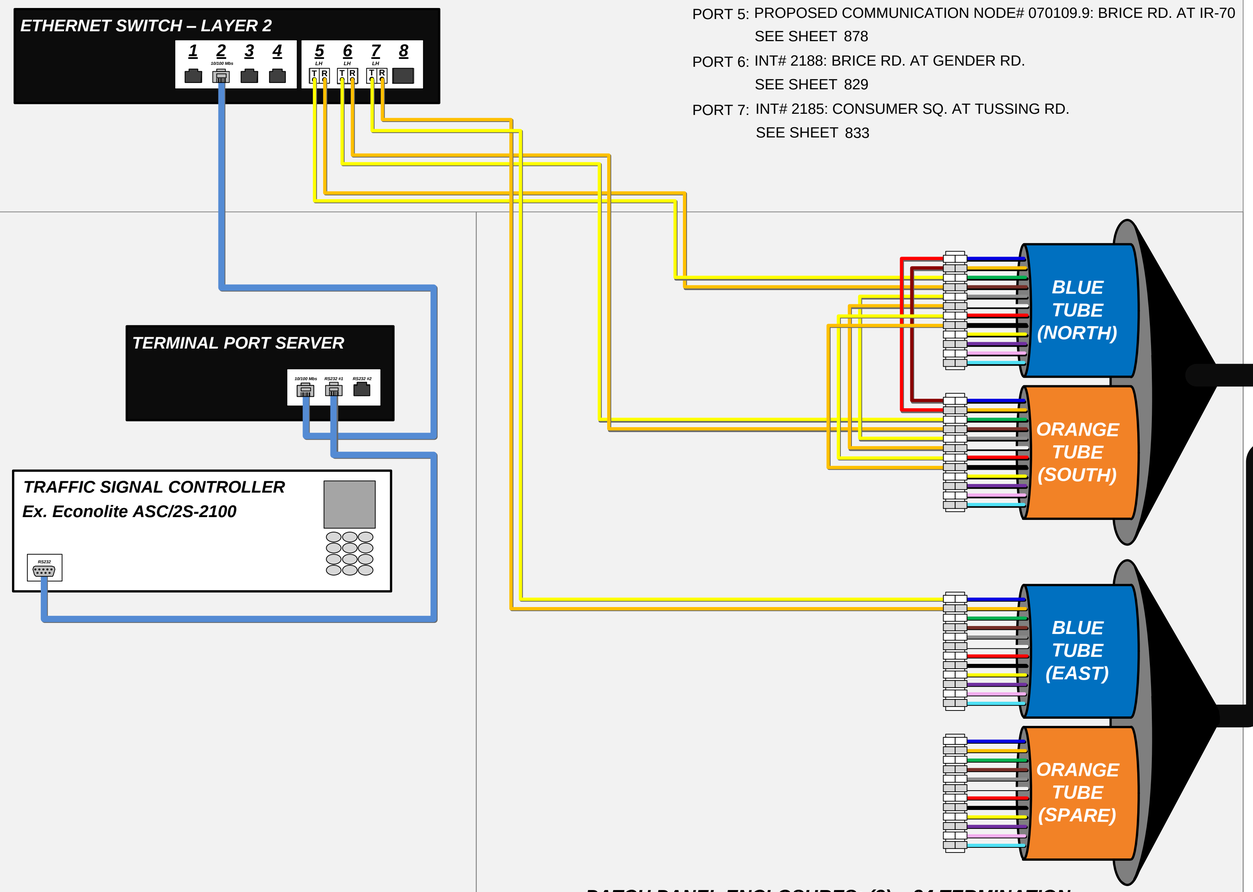
TRAFFIC SIGNAL CABINET ASSEMBLY

ETHERNET SWITCH PORT DESTINATION

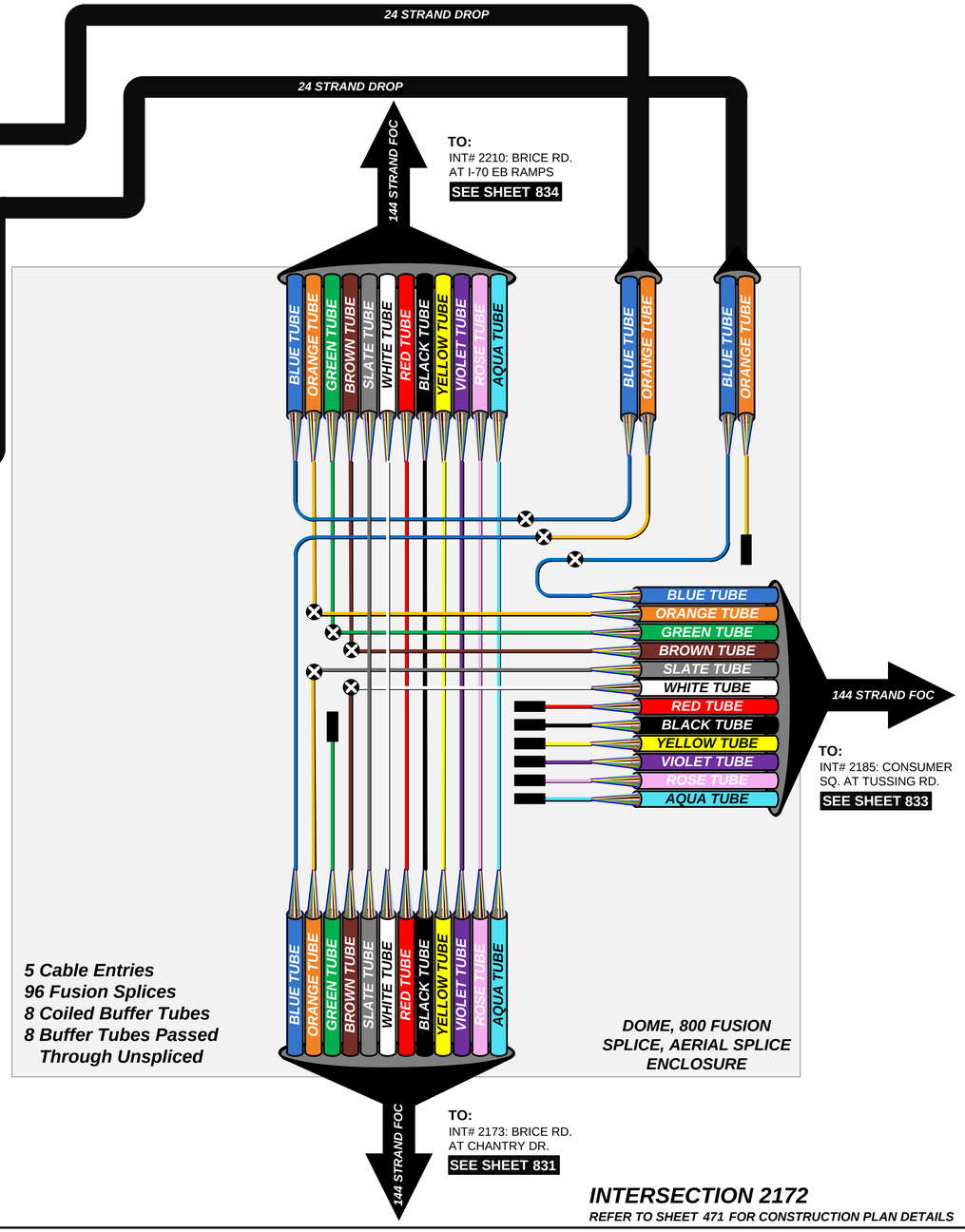
PORT 5: PROPOSED COMMUNICATION NODE# 070109.9: BRICE RD. AT IR-70
SEE SHEET 878

PORT 6: INT# 2188: BRICE RD. AT GENDER RD.
SEE SHEET 829

PORT 7: INT# 2185: CONSUMER SQ. AT TUSSING RD.
SEE SHEET 833



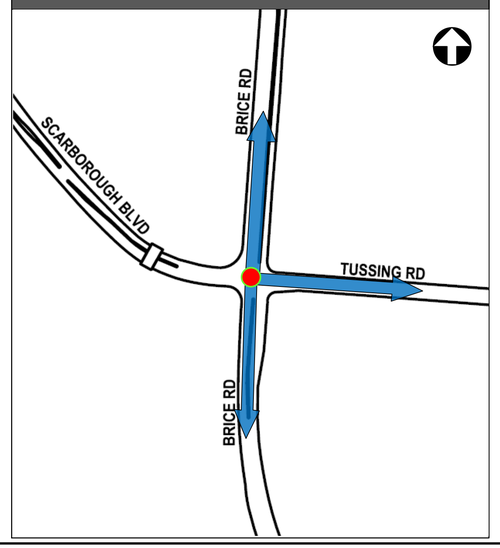
PATCH PANEL ENCLOSURES: (2) – 24 TERMINATION



LEGEND

- 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 – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 2172

REFER TO SHEET 471 FOR CONSTRUCTION PLAN DETAILS

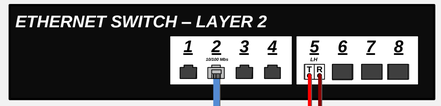
CIP: 540007 - 100005
PID NUMBER: 14522

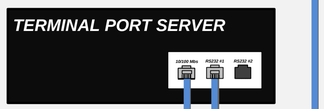
INT# 2172: BRICE RD. AT SCARBOROUGH BLVD. / TUSSING RD.
COMMUNICATIONS DIAGRAM

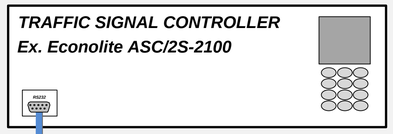
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

821-834.vsd - 2172 layout – last saved 5/2/2017 4:06:24 PM – printed: 3/11/2016 12:26:37 PM

TRAFFIC SIGNAL CABINET ASSEMBLY

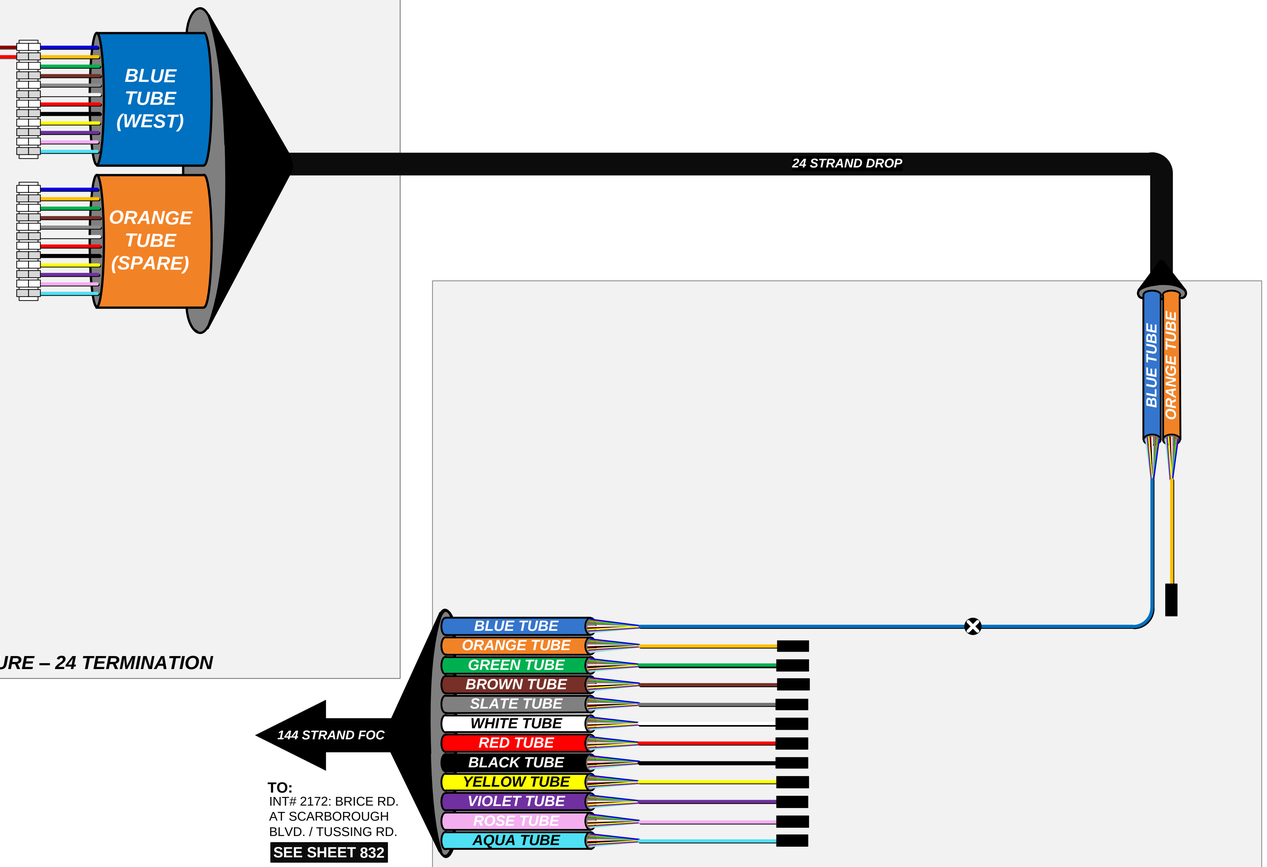






ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 2172: BRICE RD. AT SCARBOROUGH BLVD. / TUSSING RD.
SEE SHEET 832



TO:
INT# 2172: BRICE RD. AT SCARBOROUGH BLVD. / TUSSING RD.
SEE SHEET 832

PATCH PANEL ENCLOSURE – 24 TERMINATION

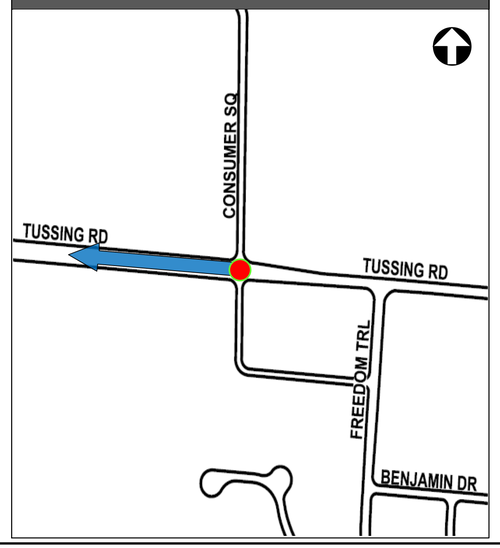
2 Cable Entries
12 Fusion Splices
12 Coiled Buffer Tubes

CLAMSHELL, 288 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX — GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 2185
REFER TO SHEET 472 FOR CONSTRUCTION PLAN DETAILS

CIP: 540007 - 100005
PID NUMBER: 14522

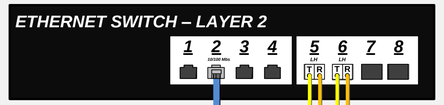
INT# 2185: CONSUMER SQ. AT TUSSING RD.
COMMUNICATIONS DIAGRAM

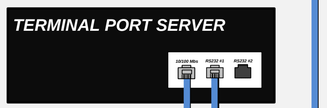
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

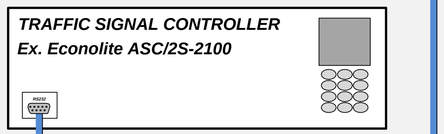
833
911

821-834.vsd - 2185 layout ~ last saved 5/2/2017 4:06:24 PM ~ printed 3/11/2016 12:26:37 PM

TRAFFIC SIGNAL CABINET ASSEMBLY



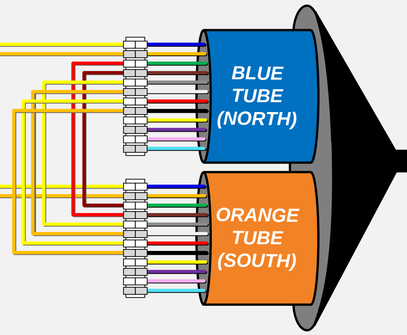


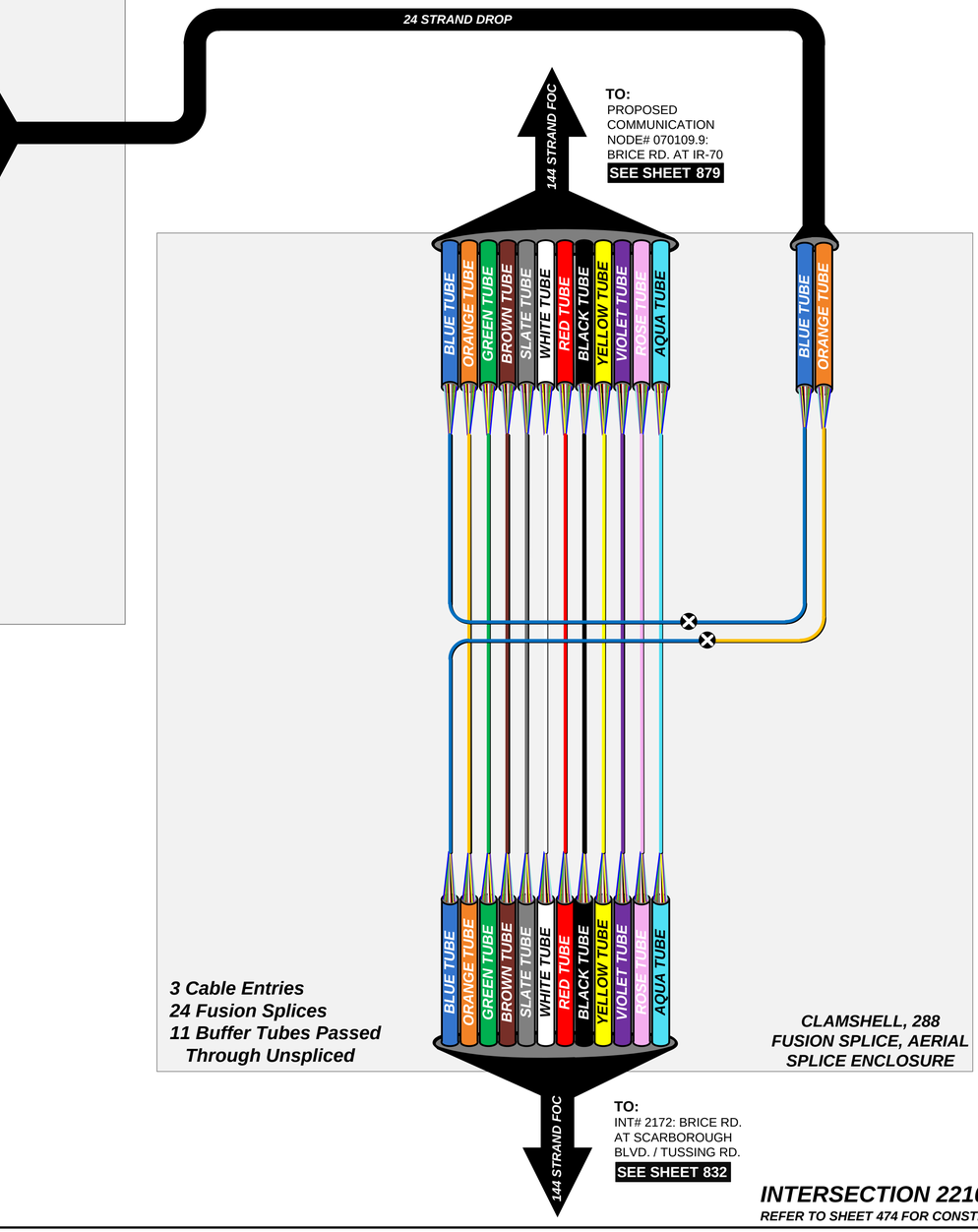


ETHERNET SWITCH PORT DESTINATION

PORT 5: PROPOSED COMMUNICATION NODE# 070109.9: BRICE RD. AT IR-70
SEE SHEET 878

PORT 6: INT# 2173: BRICE RD. AT CHANTRY DR.
SEE SHEET 831



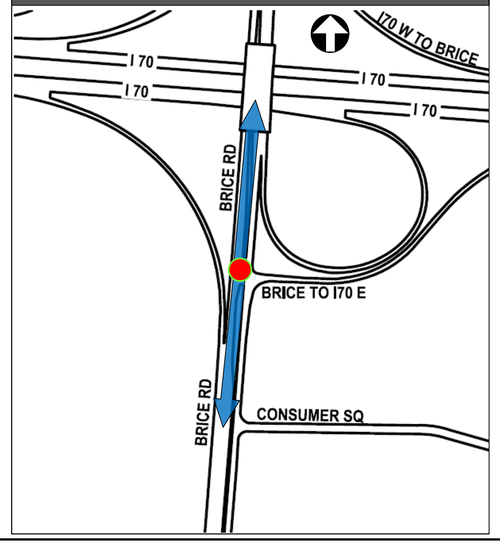


PATCH PANEL ENCLOSURE – 24 TERMINATION

LEGEND

- 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 – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX T R — GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 2210

REFER TO SHEET 474 FOR CONSTRUCTION PLAN DETAILS

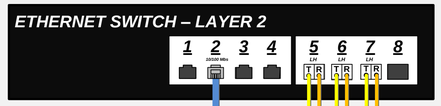
CIP: 540007 - 100005
PID NUMBER: 14522

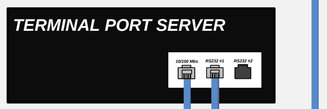
INT# 2210: BRICE RD. AT I-70 EB RAMPS
COMMUNICATIONS DIAGRAM

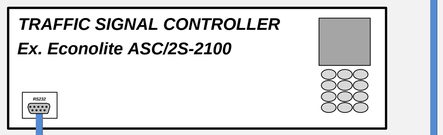
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

821-834.vsd - 2210 layout ~ last saved 5/2/2017 4:06:24 PM ~ printed: 3/11/2016 12:26:37 PM

TRAFFIC SIGNAL CABINET ASSEMBLY





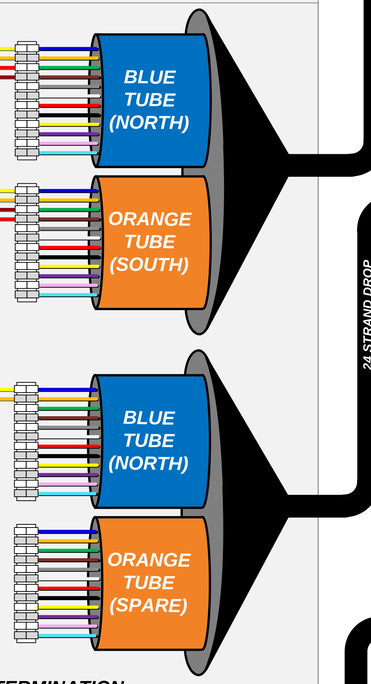


ETHERNET SWITCH PORT DESTINATION

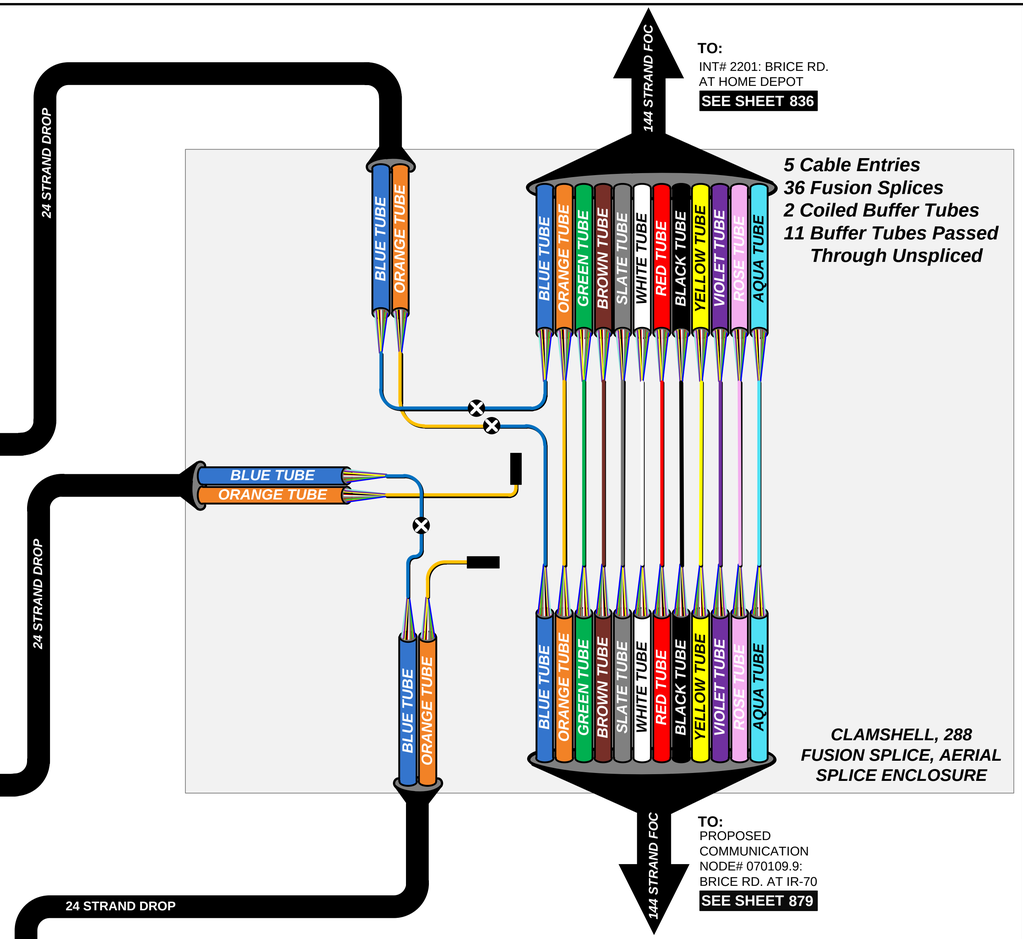
PORT 5: INT# 2170: LIVINGSTON AVE. AT McNAUGHTEN RD.
SEE SHEET 775

PORT 6: PROPOSED COMMUNICATION NODE# 070109.9: BRICE RD. AT IR-70
SEE SHEET 878

PORT 7: EXISTING CCTV CABINET AT BRICE RD. AND I-70 WB RAMPS.
SEE THIS SHEET



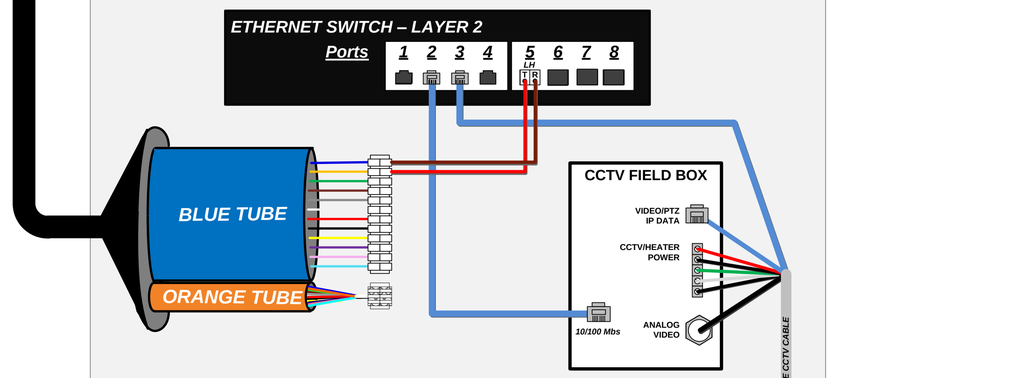
PATCH PANEL ENCLOSURES: (2) – 24 TERMINATION



TO:
INT# 2201: BRICE RD. AT HOME DEPOT
SEE SHEET 836

TO:
PROPOSED COMMUNICATION NODE# 070109.9: BRICE RD. AT IR-70
SEE SHEET 879

EXISTING CCTV CABINET AT BRICE RD. AND I-70 WB RAMPS



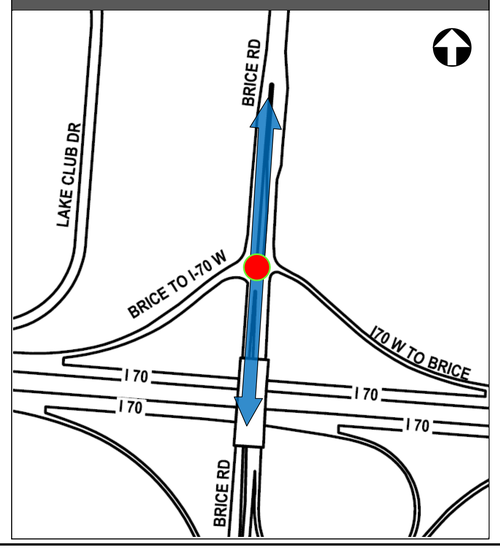
ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 2171: BRICE RD. AT I-70 WB RAMPS
SEE THIS SHEET

LEGEND

- 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 – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- 72 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 2171

REFER TO SHEET 475 FOR CONSTRUCTION PLAN DETAILS

CIP: 540007 - 100005
PID NUMBER: 14522

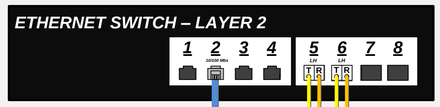
INT# 2171: BRICE RD. AT I-70 WB RAMPS
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

835
911

835-856.vsd - 2171 layout – last saved 5/2/2017 4:08:33 PM – printed: 3/11/2016 12:27:54 PM

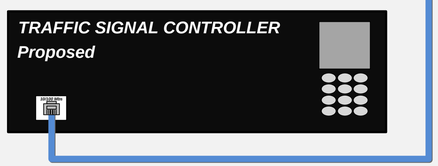
TRAFFIC SIGNAL CABINET ASSEMBLY

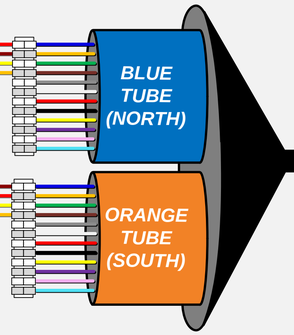


ETHERNET SWITCH PORT DESTINATION

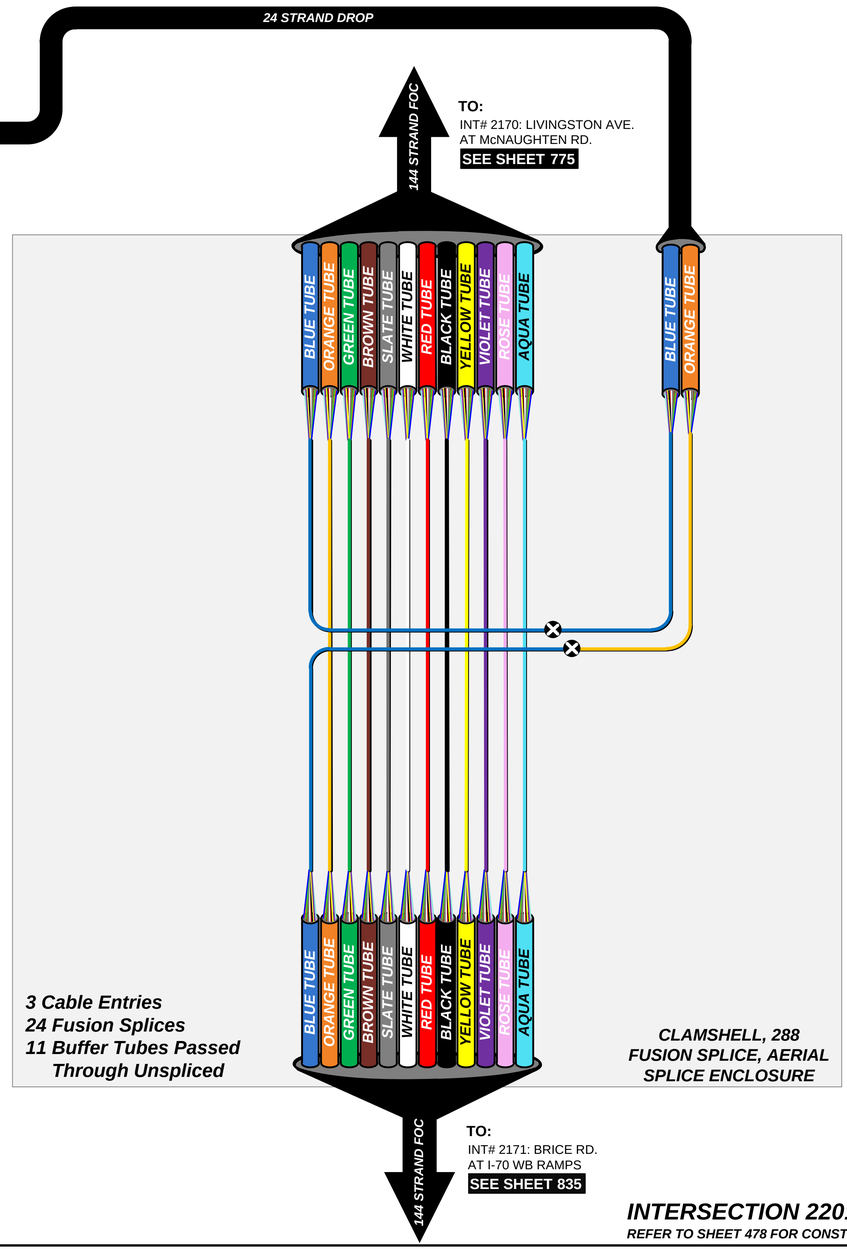
PORT 5: INT# 2169: BAIRSFORD DR. AT LIVINGSTON AVE.
SEE SHEET 774

PORT 6: PROPOSED COMMUNICATION NODE# 070109.9: BRICE RD. AT IR-70
SEE SHEET 878





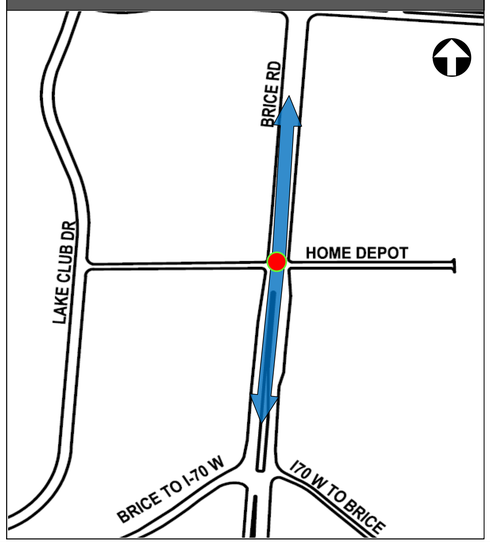
PATCH PANEL ENCLOSURE – 24 TERMINATION



LEGEND

- 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 – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- 72 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 2201

REFER TO SHEET 478 FOR CONSTRUCTION PLAN DETAILS

CIP: 540007 - 100005
PID NUMBER: 14522

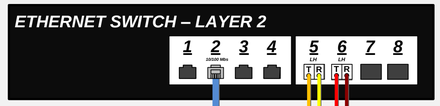
INT# 2201: BRICE RD. AT HOME DEPOT
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

836
911

835-856.vsd - 2201 layout ~ last saved 5/2/2017 4:08:33 PM ~ printed: 3/11/2016 12:27:54 PM

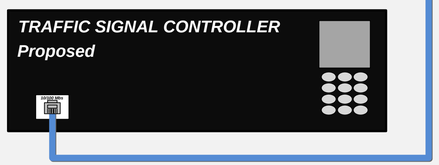
TRAFFIC SIGNAL CABINET ASSEMBLY

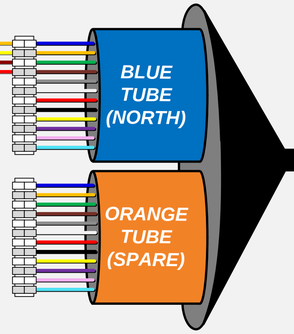


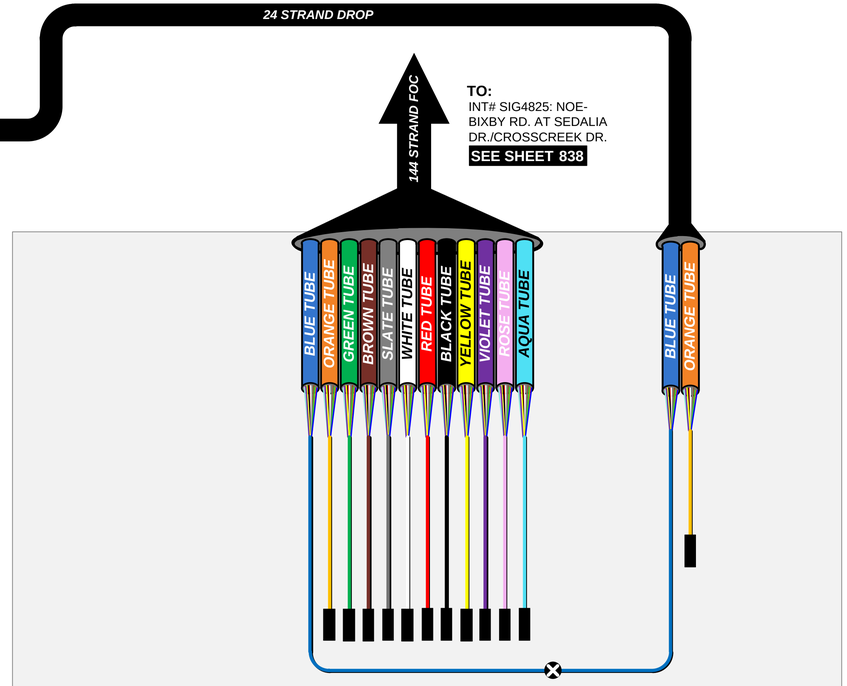
ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 2202: BRICE RD. AT CHATTERTON RD./ REFUGEE RD.
SEE SHEET 830

PORT 6: INT# SIG4825: NOE-BIXBY RD. AT SEDALIA DR./CROSSCREEK DR.
SEE SHEET 838







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
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- 72 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION SIG4240
REFER TO SHEET 481 FOR CONSTRUCTION PLAN DETAILS

CIP: 540007 - 100005
PID NUMBER: 14522

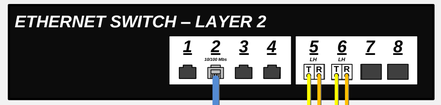
INT# SIG4240: HARBOR BLVD. AT NOE-BIXBY RD.
COMMUNICATIONS DIAGRAM

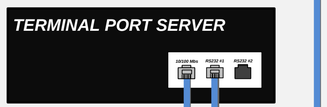
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

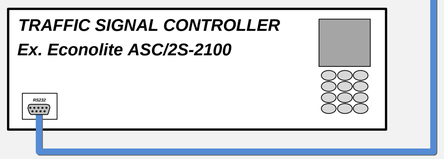
837
911

835-856.vsd - SIG4240 layout ~ last saved 5/2/2017 4:08:33 PM ~ printed: 3/11/2016 12:27:54 PM

TRAFFIC SIGNAL CABINET ASSEMBLY



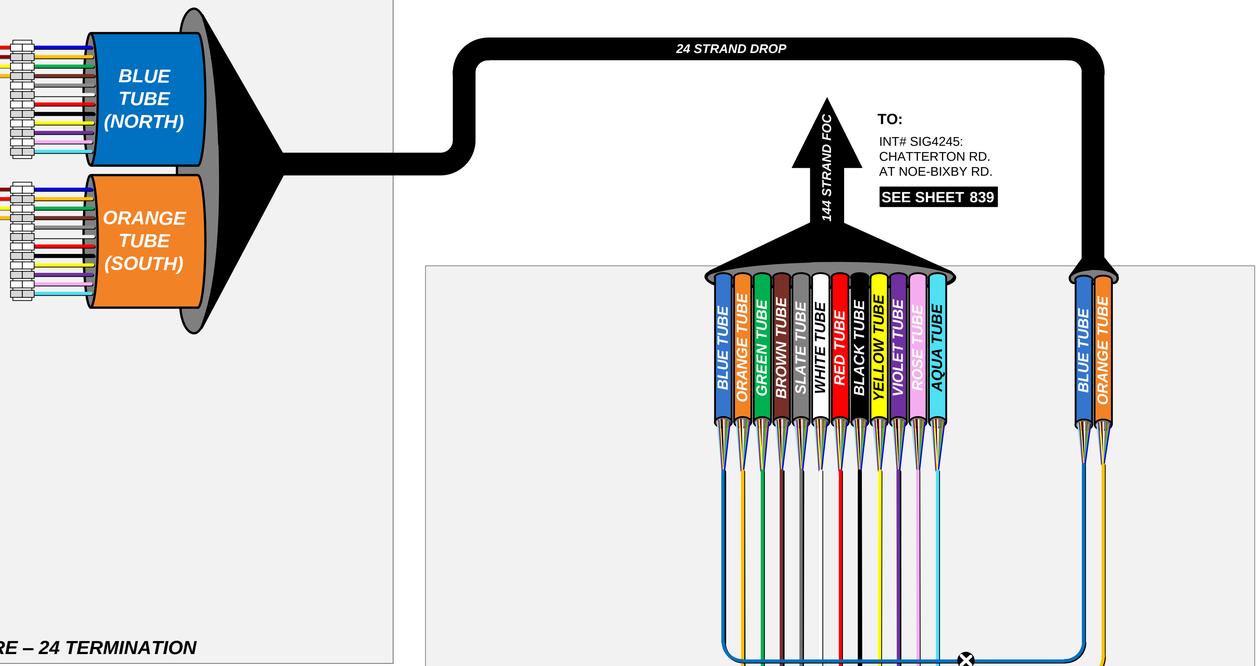




ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 2174: NOE-BIXBY RD. AT REFUGEE RD.
SEE SHEET 840

PORT 6: INT# SIG4240: HARBOR BLVD. AT NOE-BIXBY RD.
SEE SHEET 837

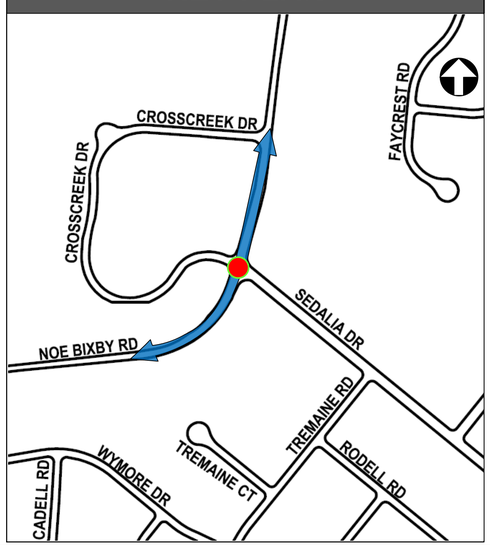


PATCH PANEL ENCLOSURE – 24 TERMINATION

LEGEND

- 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 – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX T R — GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- 72 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION SIG4825

REFER TO SHEET 483 FOR CONSTRUCTION PLAN DETAILS

CIP: 540007 - 100005
PID NUMBER: 14522

INT# SIG4825: NOE-BIXBY RD. AT SEDALIA DR./CROSSCREEK DR.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

838
911

835-856.vsd - SIG4825 layout - last saved 5/2/2017 4:08:33 PM - printed: 3/11/2016 12:27:54 PM

TRAFFIC SIGNAL CABINET ASSEMBLY

ETHERNET SWITCH – LAYER 2

1 2 3 4 5 6 7 8

10/100 Mbs

5 6 CAT T R T R

ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 2174: NOE-BIXBY RD. AT REFUGEE RD.
SEE SHEET 840

PORT 6: INT# 2160: HAMILTON RD. AT REFUGEE RD.
SEE SHEET 844

TRAFFIC SIGNAL CONTROLLER
Ex. Econolite ASC/3-2100

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

BLUE TUBE (NORTH)

ORANGE TUBE (SOUTH)

BLUE TUBE (EAST)

ORANGE TUBE (WEST)

144 STRAND FOC

TO:
INT# 2174: NOE-BIXBY RD.
AT REFUGEE RD.
SEE SHEET 840

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# 2217:
REFUGEE RD. AT
TENNYSON BLVD.
SEE SHEET 843

144 STRAND FOC

TO:
INT# 2202: BRICE RD.
AT CHATTERTON RD./
REFUGEE RD.
SEE SHEET 830

144 STRAND FOC

TO:
INT# SIG4825: NOE-BIXBY
RD. AT SEDALIA DR./
CROSSCREEK DR.
SEE SHEET 838

6 Cable Entries
264 Fusion Splices
8 Coiled Buffer Tubes

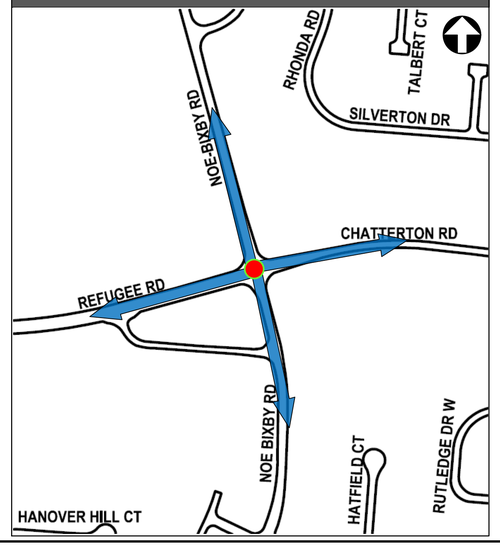
DOME, 800 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

PATCH PANEL ENCLOSURES: (2) – 24 TERMINATION

LEGEND

- 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 – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX T R – GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- 72 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION SIG4245

REFER TO SHEET 500 FOR CONSTRUCTION PLAN DETAILS

CIP: 540007 - 100005
PID NUMBER: 14522

INT# SIG4245: CHATTERTON RD. AT NOE-BIXBY RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

835-856.vsd - SIG4245 layout ~ last saved 5/2/2017 4:08:33 PM ~ printed: 3/11/2016 12:27:54 PM

TRAFFIC SIGNAL CABINET ASSEMBLY

ETHERNET SWITCH – LAYER 2

1 2 3 4 5 6 7 8

5 6 LAY T R T R

TERMINAL PORT SERVER

10/100 Mbs RS232 #1 RS232 #2

TRAFFIC SIGNAL CONTROLLER
Ex. Econolite ASC/2S-2100

RS232

ETHERNET SWITCH PORT DESTINATION

PORT 3: INT# 2175: DENMARK RD. AT REFUGEE RD.
SEE SHEET 841

PORT 4: INT# 2191: CARBONDALE DR. AT NOE-BIXBY RD.
SEE SHEET 842

PORT 5: INT# SIG4245: CHATTERTON RD. AT NOE-BIXBY RD.
SEE SHEET 839

PORT 6: INT# SIG4825: NOE-BIXBY RD. AT SEDALIA DR./CROSSCREEK DR.
SEE SHEET 838

WIRELESS LINK TO
INT# 2191: CARBONDALE
DR. AT NOE-BIXBY RD.
SEE SHEET 842

WIRELESS LINK TO
INT# 2175: DENMARK
RD. AT REFUGEE RD.
SEE SHEET 841

BLUE TUBE (SOUTH)

ORANGE TUBE (SPARE)

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

2 Cable Entries
12 Fusion Splices
12 Coiled Buffer Tubes

CLAMSHELL, 288 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

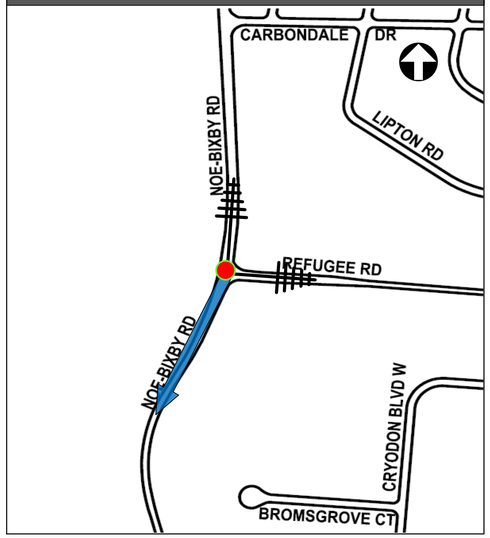
144 STRAND FOC

TO:
INT# SIG4245:
CHATTERTON RD.
AT NOE-BIXBY RD.
SEE SHEET 839

LEGEND

- 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 – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- 72 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 2174
REFER TO SHEET 487 FOR CONSTRUCTION PLAN DETAILS

CIP: 540007 - 100005
PID NUMBER: 14522

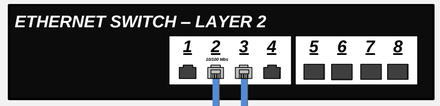
INT# 2174: NOE-BIXBY RD. AT REFUGEE RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

840
911

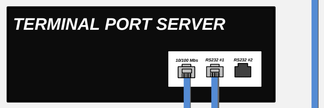
835-856.vsd - 2174 layout ~ last saved 5/2/2017 4:08:33 PM ~ printed: 3/11/2016 12:27:54 PM

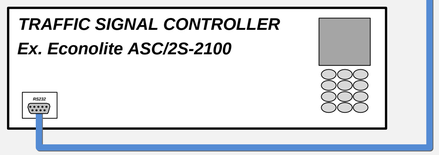
TRAFFIC SIGNAL CABINET ASSEMBLY

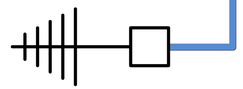


ETHERNET SWITCH PORT DESTINATION

PORT 3: INT# 2174: NOE-BIXBY RD. AT REFUGEE RD.
SEE SHEET 840





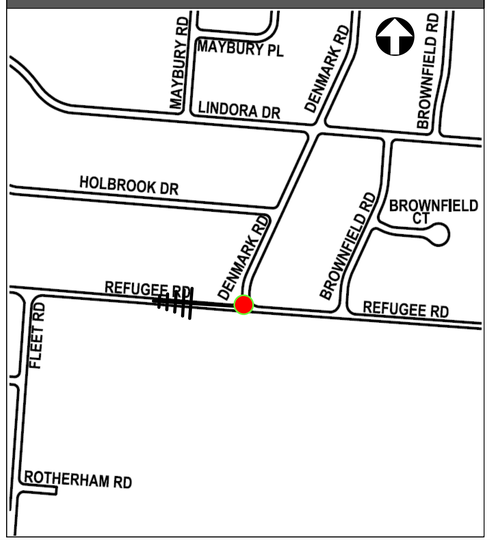


WIRELESS LINK TO
INT# 2174: NOE-BIXBY RD.
AT REFUGEE RD.
SEE SHEET 840

LEGEND

- 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 – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- 72 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 2175

REFER TO SHEET 491 FOR CONSTRUCTION PLAN DETAILS

CIP: 540007 - 100005
PID NUMBER: 14522

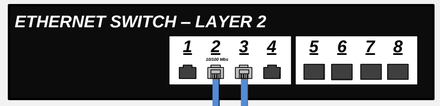
INT# 2175: DENMARK RD. AT REFUGEE RD.
COMMUNICATIONS DIAGRAM

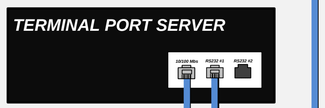
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

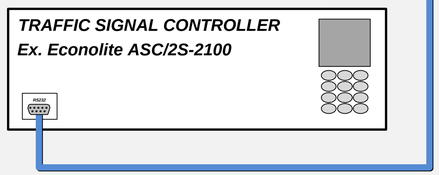
841
911

835-856.vsd - 2175 layout – last saved 5/2/2017 4:08:33 PM – printed: 3/11/2016 12:27:54 PM

TRAFFIC SIGNAL CABINET ASSEMBLY

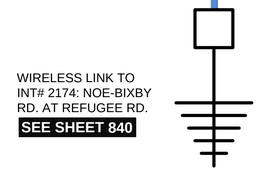






ETHERNET SWITCH PORT DESTINATION

PORT 3: INT# 2174: NOE-BIXBY RD. AT REFUGEE RD.
SEE SHEET 840

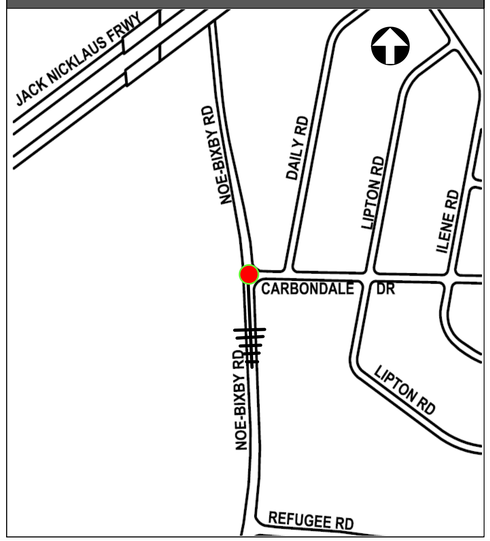


WIRELESS LINK TO
INT# 2174: NOE-BIXBY
RD. AT REFUGEE RD.
SEE SHEET 840

LEGEND

- 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 – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- 72 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 2191

REFER TO SHEET 488 FOR CONSTRUCTION PLAN DETAILS

CIP: 540007 - 100005
PID NUMBER: 14522

INT# 2191: CARBONDALE DR. AT NOE-BIXBY RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

842
911

835-856.vsd - 2191 layout - last saved 5/2/2017 4:08:33 PM - printed: 3/11/2016 12:27:54 PM

TRAFFIC SIGNAL CABINET ASSEMBLY

ETHERNET SWITCH – LAYER 2

1 2 3 4 5 6 7 8

10/100 Mbs

T R T R

TRAFFIC SIGNAL CONTROLLER
Proposed

10/100 Mbs

ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# 2202: BRICE RD. AT CHATTERTON RD./ REFUGEE RD.
SEE SHEET 830

PORT 6: PROPOSED COMMUNICATION NODE# 270045.5:
HAMILTON RD. AT IR-270
SEE SHEET 890

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# 2160: HAMILTON RD. AT REFUGEE RD.
SEE SHEET 844

144 STRAND FOC

TO:
INT# SIG4245: CHATTERTON RD. AT NOE-BIXBY RD.
SEE SHEET 839

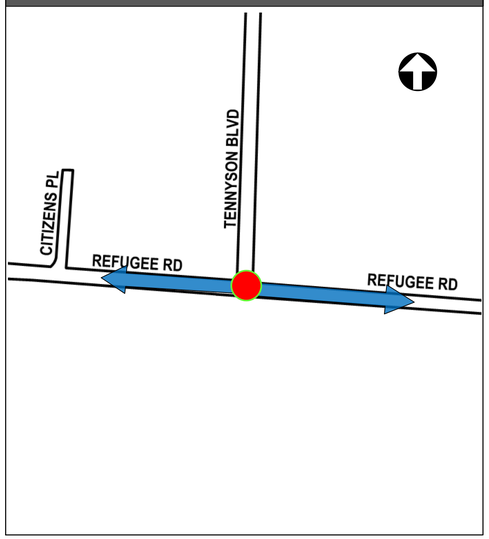
3 Cable Entries
24 Fusion Splices
11 Buffer Tubes Passed Through Unspliced

CLAMSHELL, 288 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX T R GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- 72 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 2217
REFER TO SHEET 495 FOR CONSTRUCTION PLAN DETAILS

CIP: 540007 - 100005
PID NUMBER: 14522

INT# 2217: REFUGEE RD. AT TENNYSON BLVD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

843
911

835-856.vsd - 2217 layout ~ last saved 5/2/2017 4:08:33 PM ~ printed: 3/11/2016 12:27:54 PM

TRAFFIC SIGNAL CABINET ASSEMBLY

ETHERNET SWITCH – LAYER 2

1 2 3 4 5 6 7 8

ETHERNET SWITCH PORT DESTINATION

PORT 4: INT# 2194: HAMILTON RD. AT WINCHESTER PIKE.
SEE SHEET 845

PORT 5: PROPOSED COMMUNICATION NODE# 270045.5: HAMILTON RD. AT IR-270
SEE SHEET 890

PORT 6: INT# SIG4245: CHATTERTON RD. AT NOE-BIXBY RD.
SEE SHEET 839

WIRELESS LINK TO
INT# 2194: HAMILTON RD.
AT WINCHESTER PIKE.
SEE SHEET 845

COMPOSITE CCTV CABLE

PROPOSED CCTV

24 STRAND DROP

BLUE TUBE (NORTH)

ORANGE TUBE (EAST)

CCTV FIELD BOX

VIDEO/PTZ IP DATA
CCTV/HEATER POWER
10/100 Mbs
ANALOG VIDEO

144 STRAND FOC

TO:
PROPOSED
COMMUNICATION NODE#
270045.5: HAMILTON RD. AT
SEE SHEET 891

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
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# 2217: REFUGEE
RD. AT TENNYSON
BLVD.
SEE SHEET 843

3 Cable Entries
24 Fusion Splices
11 Buffer Tubes Passed Through Unspliced

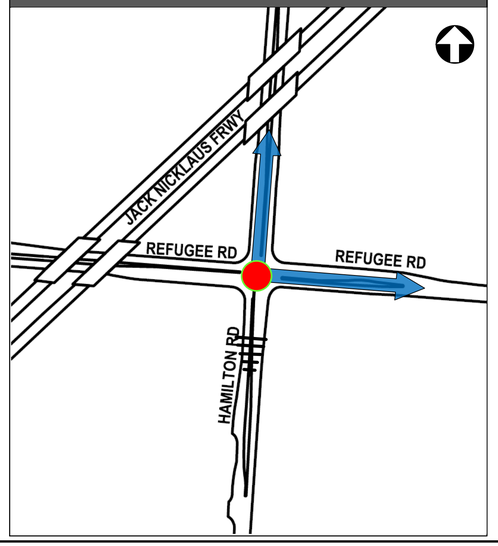
CLAMSHELL, 144 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE

PATCH PANEL ENCLOSURE – 24 TERMINATION

LEGEND

- 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 – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- *LH/ZX* GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- 72 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 2160
REFER TO SHEET 493 FOR CONSTRUCTION PLAN DETAILS

CIP: 540007 - 100005
PID NUMBER: 14522

INT# 2160: HAMILTON RD. AT REFUGEE RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

844
911

835-856.vsd - 2160 layout ~ last saved 5/2/2017 4:08:33 PM ~ printed: 3/11/2016 12:27:54 PM

TRAFFIC SIGNAL CABINET ASSEMBLY

ETHERNET SWITCH – LAYER 2

1 2 3 4 (10/100 Mbs) 5 6 7 8

ETHERNET SWITCH PORT DESTINATION

PORT 4: INT# 2160: HAMILTON RD. AT REFUGEE RD.
SEE SHEET 844

WIRELESS LINK TO
INT# 2160: HAMILTON
RD. AT REFUGEE RD.
SEE SHEET 844

CCTV FIELD BOX

- VIDEO/PTZ IP DATA
- CCTV/HEATER POWER
- *10/100 Mbs*
- ANALOG VIDEO

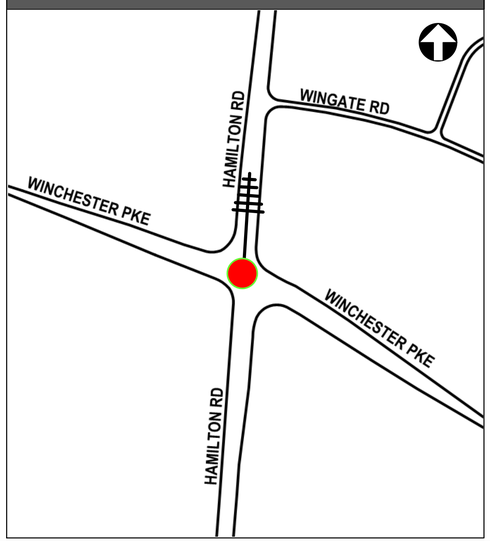
COMPOSITE CCTV CABLE

PROPOSED CCTV

LEGEND

- 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 – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- *LH/ZX* (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- 72 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION 2194

REFER TO SHEET 494 FOR CONSTRUCTION PLAN DETAILS

CIP: 540007 - 100005
PID NUMBER: 14522

INT# 2194: HAMILTON RD. AT WINCHESTER PIKE.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

845
911

835-856.vsd - 2194 layout ~ last saved 5/2/2017 4:08:33 PM ~ printed: 3/11/2016 12:27:54 PM

SHEET INTENTIONALLY LEFT BLANK

CIP: 540007 - 100005
PID NUMBER: 14522

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

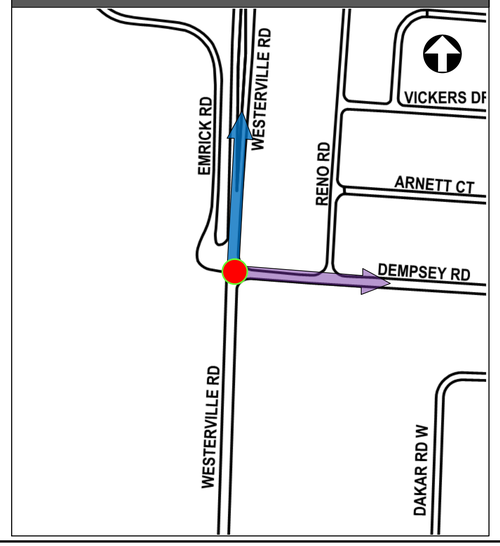
846
911

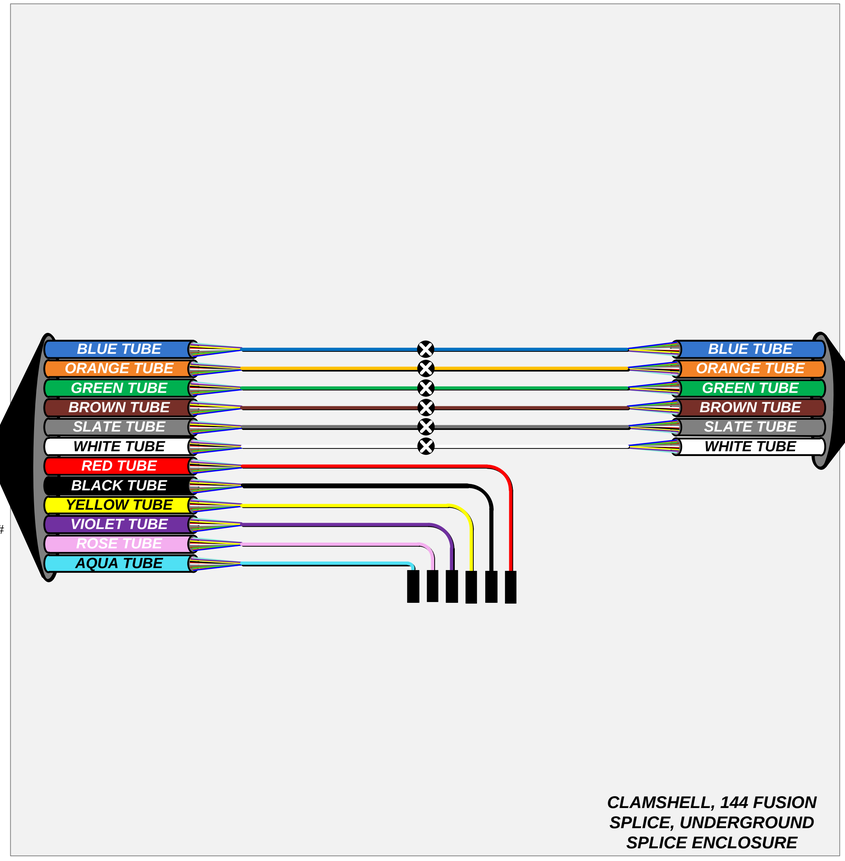
J:\Jobs\50806\TECHPROD\Communications\Intersection Comm Sheets\Splicing Details\835-856.vsd - 3164 layout – last saved by: skoganti 5/2/2017 4:08:33 PM – printed: 3/11/2016 12:27:54 PM

LEGEND

- 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 – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- *LH/ZX* (T / R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- 72 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN





TO:
PROPOSED COMMUNICATION NODE# 270028.3: IR-270 AT WESTERVILLE RD.
SEE SHEET 889

TO:
INT# SIG4095: CAIRO RD. AT DEMPSEY RD.
SEE SHEET 848

CLAMSHELL, 144 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE

SPLICE-10

REFER TO SHEET 510 FOR CONSTRUCTION PLAN DETAILS

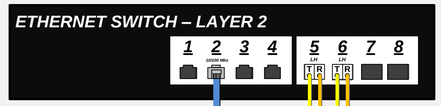
CIP: 540007 - 100005
PID NUMBER: 14522

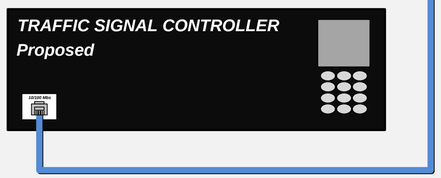
SPLICE-10: DEMPSEY RD. AT WESTERVILLE RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

835-856.vsd - SPLICE-10 layout ~ last saved 5/2/2017 4:08:33 PM ~ printed: 3/11/2016 12:27:54 PM

TRAFFIC SIGNAL CABINET ASSEMBLY





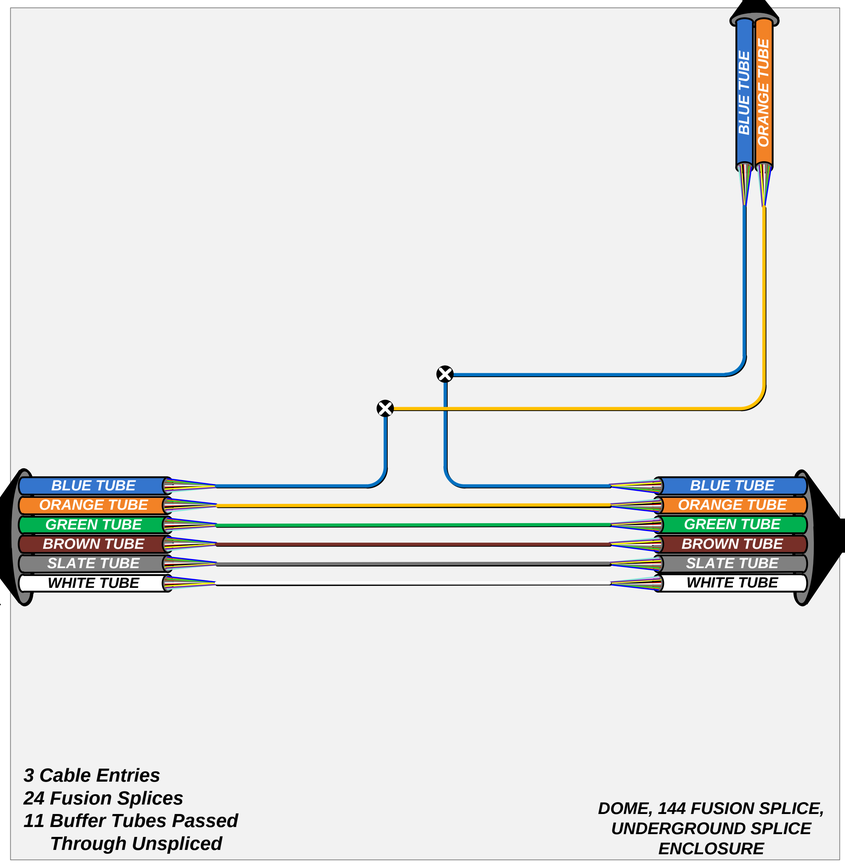
ETHERNET SWITCH PORT DESTINATION

PORT 5: INT# SIG4670: DEMPSEY RD. AT HEMPSTEAD RD.
SEE SHEET 850

PORT 6: PROPOSED COMMUNICATION NODE# 270028.3:
IR-270 AT WESTERVILLE RD.
SEE SHEET 888



PATCH PANEL ENCLOSURE – 24 TERMINATION



TO:
SPLICE-10: DEMPSEY RD.
AT WESTERVILLE RD.
SEE SHEET 847

TO:
SPLICE-11: BATAVIA RD.
AT DEMPSEY RD.
SEE SHEET 849

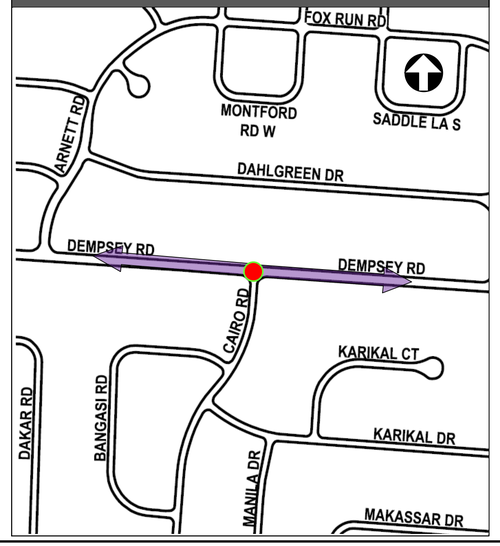
3 Cable Entries
24 Fusion Splices
11 Buffer Tubes Passed Through Unspliced

DOME, 144 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE

LEGEND

- 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 – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- 72 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION SIG4095
REFER TO SHEET 512 FOR CONSTRUCTION PLAN DETAILS

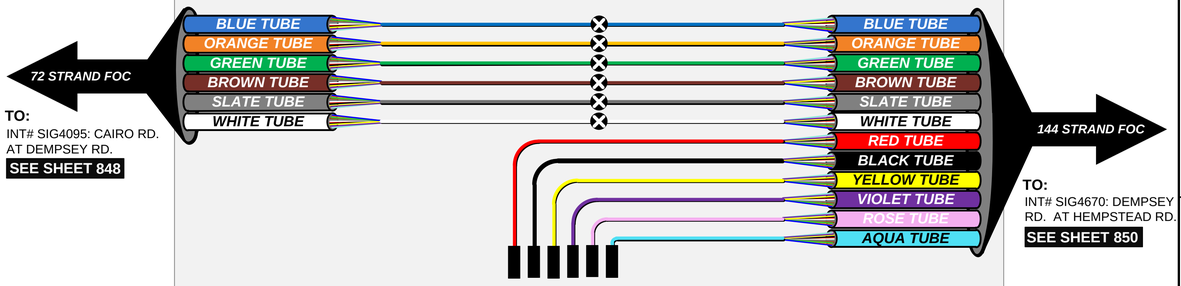
CIP: 540007 - 100005
PID NUMBER: 14522

INT# SIG4095: CAIRO RD. AT DEMPSEY RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

848
911

835-856.vsd - SIG4095 layout ~ last saved 5/2/2017 4:08:33 PM ~ printed: 3/11/2016 12:27:54 PM



TO:
INT# SIG4095: CAIRO RD. AT DEMPSEY RD.
SEE SHEET 848

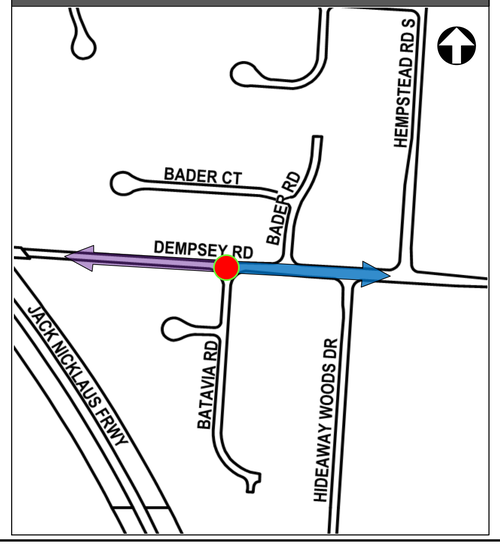
TO:
INT# SIG4670: DEMPSEY RD. AT HEMPSTEAD RD.
SEE SHEET 850

CLAMSHELL, 288 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

LEGEND

- 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 – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- *LH/ZX* GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- 72 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION SPLICE-11

REFER TO SHEET 514 FOR CONSTRUCTION PLAN DETAILS

CIP: 540007 - 100005
PID NUMBER: 14522

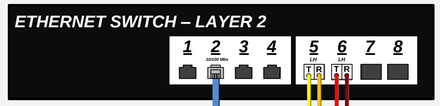
SPLICE-11: BATAVIA RD. AT DEMPSEY RD.
COMMUNICATIONS DIAGRAM

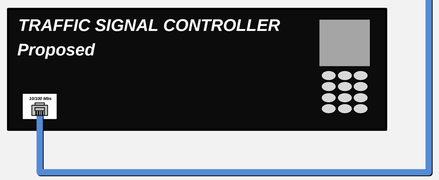
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

849
911

835-856.vsd - SPLICE-11 layout - last saved 5/2/2017 4:08:33 PM - printed: 3/11/2016 12:27:54 PM

TRAFFIC SIGNAL CABINET ASSEMBLY





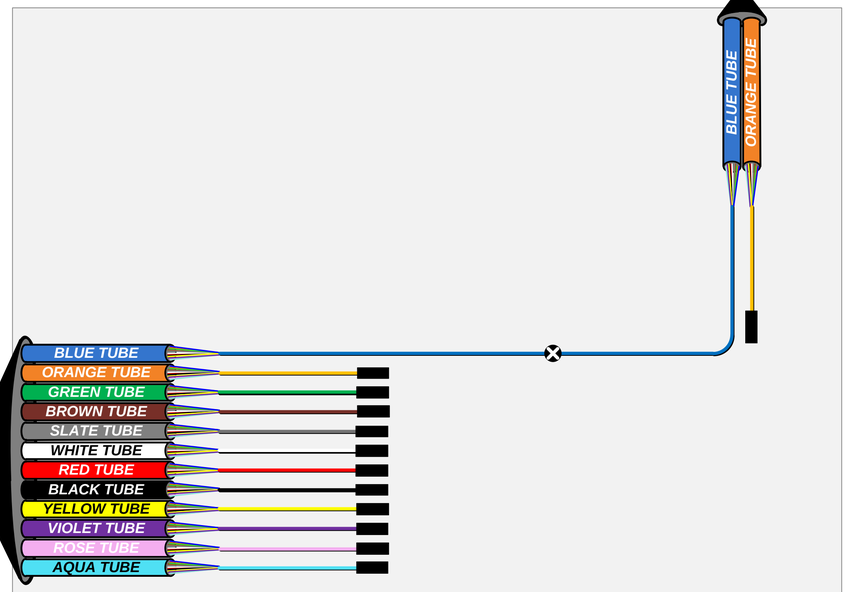
ETHERNET SWITCH PORT DESTINATION

PORT 5: PROPOSED COMMUNICATION NODE# 270028.3:
IR-270 AT WESTERVILLE RD.
SEE SHEET 888

PORT 6: INT# SIG4095: CAIRO RD. AT DEMPSEY RD.
SEE SHEET 848



PATCH PANEL ENCLOSURE – 24 TERMINATION



TO:
SPLICE-11: BATAVIA RD.
AT DEMPSEY RD.
SEE SHEET 849

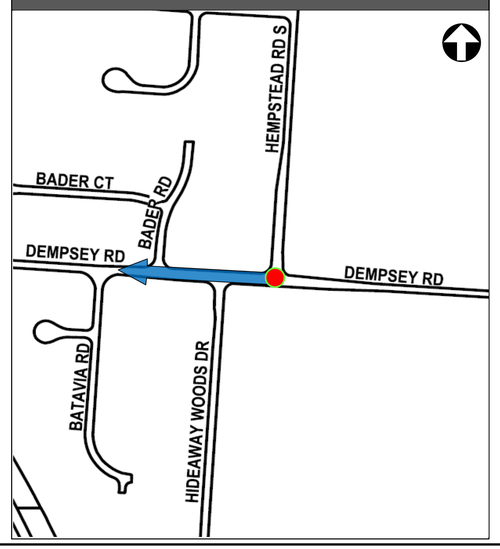
2 Cable Entries
12 Fusion Splices
12 Coiled Buffer Tubes

CLAMSHELL, 288
FUSION SPLICE, AERIAL
SPLICE ENCLOSURE

LEGEND

- FIBER PATCH CABLES T/R STANDARD
- FIBER PATCH CABLES R/T CROSSOVER
- CAT 5E CABLE
- PATCH PANEL
- EXISTING/PROPOSED FIBER OR BUFFER TUBE LEFT COILED IN SPLICE ENCLOSURE
- FUSION SPLICE – SINGLE FIBER
- FUSION SPLICE – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- 72 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION SIG4670
REFER TO SHEET 514 FOR CONSTRUCTION PLAN DETAILS

CIP: 540007 - 100005
PID NUMBER: 14522

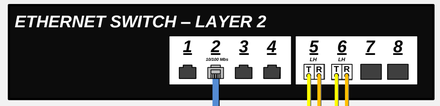
INT# SIG4670: DEMPSEY RD. AT HEMPSTEAD RD.
COMMUNICATIONS DIAGRAM

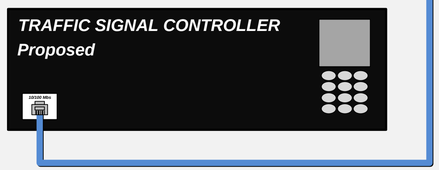
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

850
911

835-856.vsd - SIG4670 layout ~ last saved 5/2/2017 4:08:33 PM ~ printed: 3/11/2016 12:27:54 PM

TRAFFIC SIGNAL CABINET ASSEMBLY

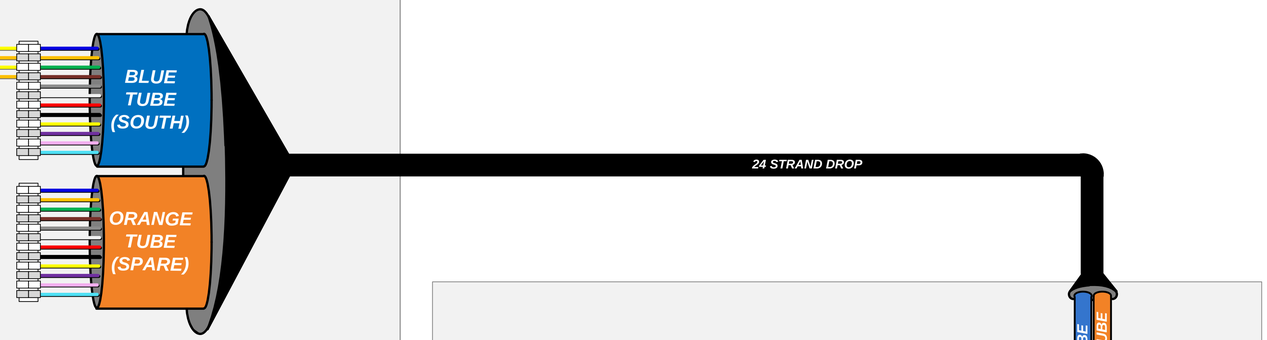




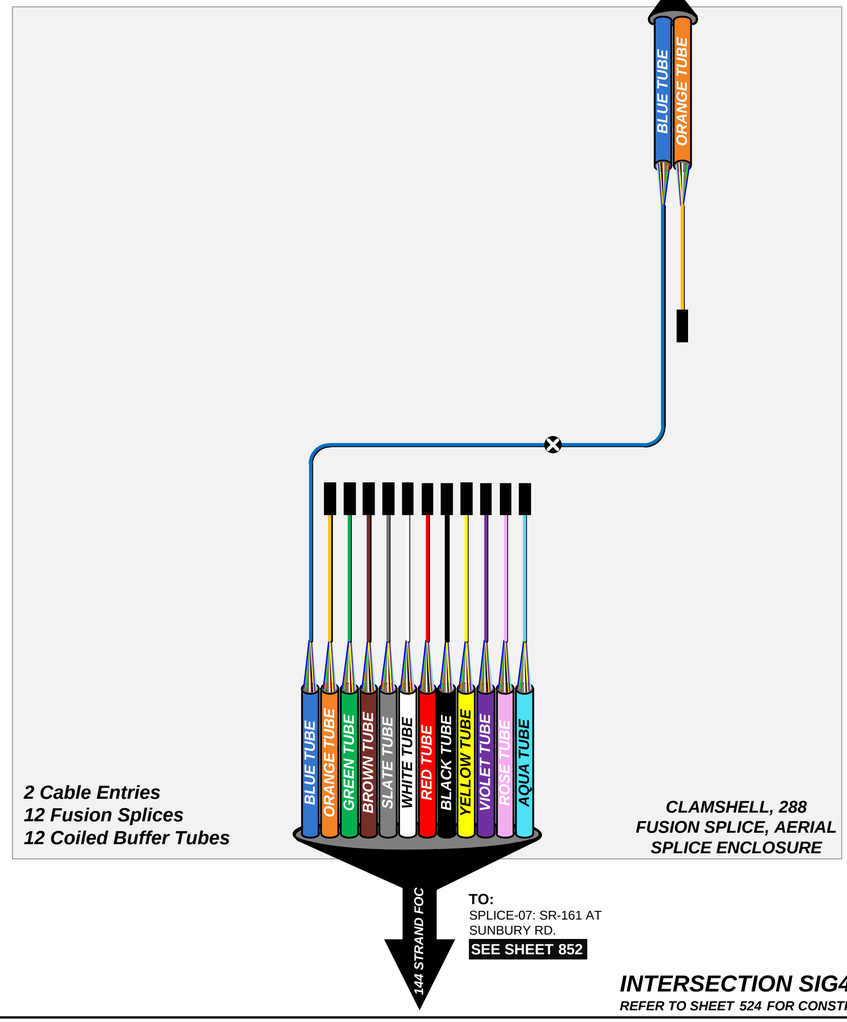
ETHERNET SWITCH PORT DESTINATION

PORT 5: PROPOSED COMMUNICATION NODE# 270028.3: IR-270 AT WESTERVILLE RD.
SEE SHEET 888

PORT 6: PROPOSED COMMUNICATION NODE# 270028.3: IR-270 AT WESTERVILLE RD.
SEE SHEET 888



PATCH PANEL ENCLOSURE – 24 TERMINATION



2 Cable Entries
12 Fusion Splices
12 Coiled Buffer Tubes

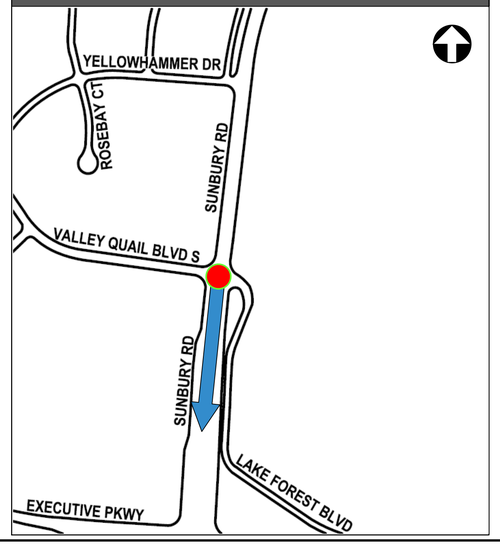
CLAMSHELL, 288 FUSION SPLICE, AERIAL SPLICE ENCLOSURE

TO:
SPLICE-07: SR-161 AT SUNBURY RD.
SEE SHEET 852

LEGEND

- 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 – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- 72 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION SIG4439
REFER TO SHEET 524 FOR CONSTRUCTION PLAN DETAILS

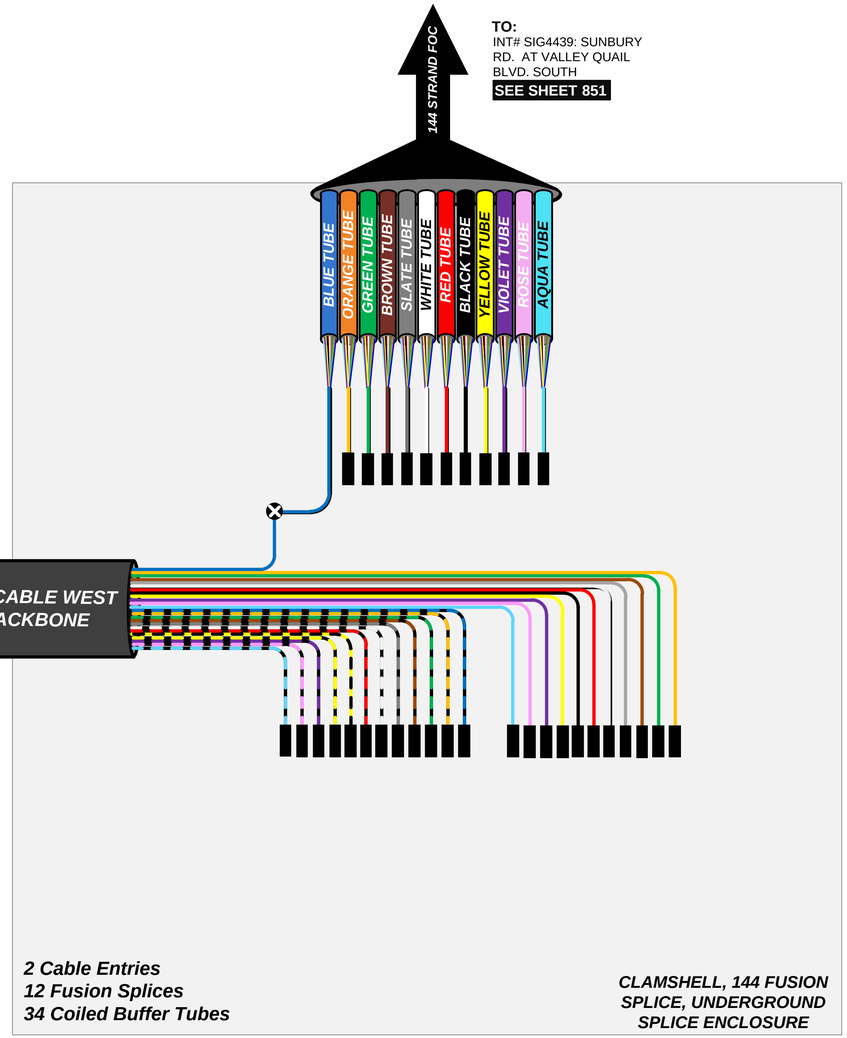
CIP: 540007 - 100005
PID NUMBER: 14522

INT# SIG4439: SUNBURY RD. AT VALLEY QUAIL BLVD. SOUTH
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

851
911

835-856.vsd - SIG4439 layout ~ last saved 5/2/2017 4:08:33 PM ~ printed: 3/11/2016 12:27:54 PM



TO:
INT# SIG4439: SUNBURY RD. AT VALLEY QUAIL BLVD. SOUTH
SEE SHEET 851

TO:
SPLICE-08: SUNBURY RD. AT SR-161 WB RAMPS.
SEE SHEET 853

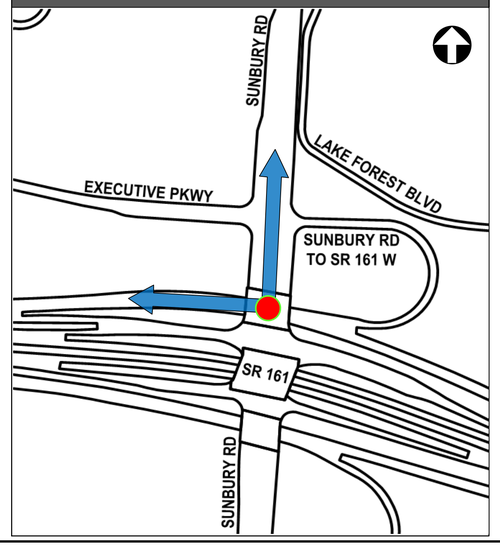
2 Cable Entries
12 Fusion Splices
34 Coiled Buffer Tubes

CLAMSHELL, 144 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE

LEGEND

- 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 – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- *LH/ZX* GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- 72 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



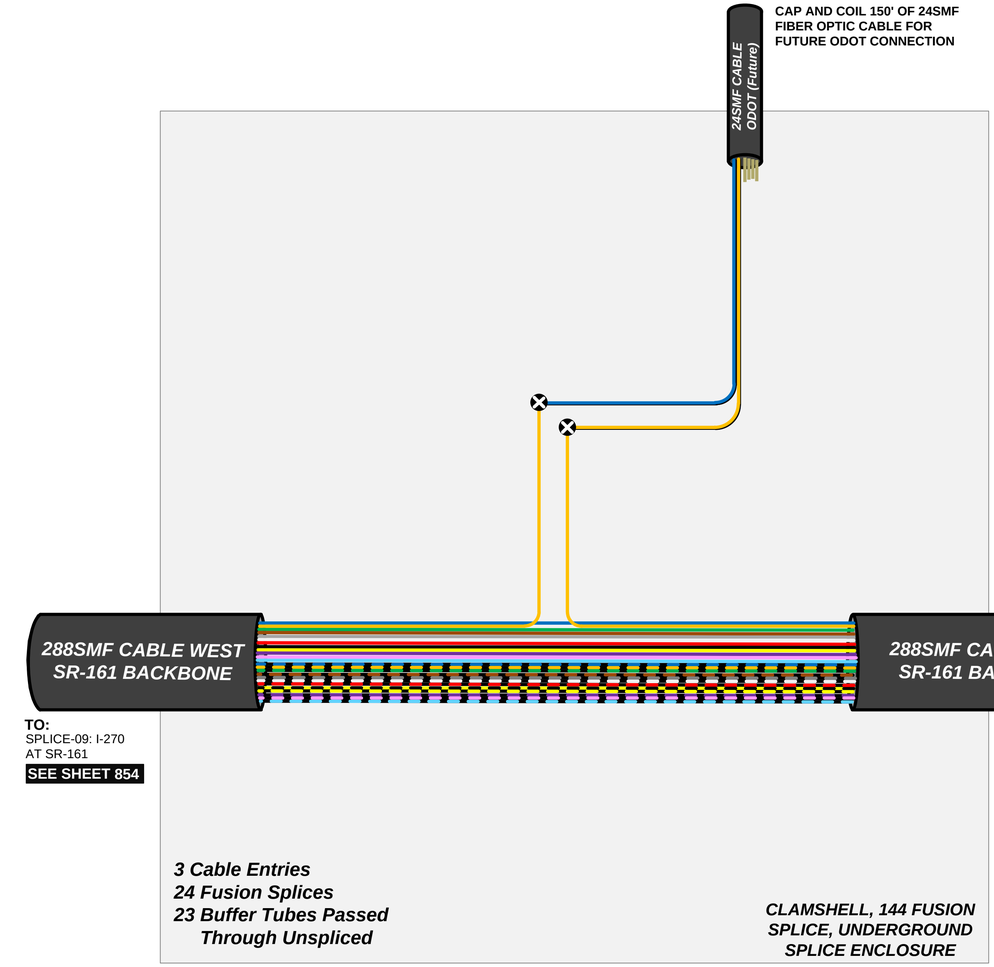
SPLICE-07
REFER TO SHEET 523 FOR CONSTRUCTION PLAN DETAILS

CIP: 540007 - 100005
PID NUMBER: 14522

SPLICE-07: SR-161 AT SUNBURY RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

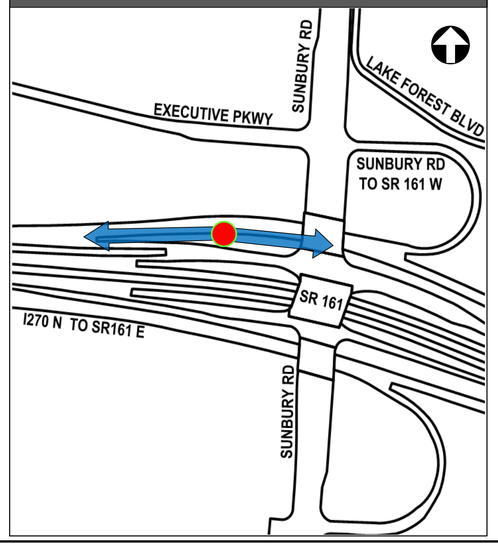
835-856.vsd - SPLICE-07 layout - last saved 5/2/2017 4:08:33 PM - printed: 3/11/2016 12:27:54 PM



LEGEND

- 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 – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- 72 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



SPLICE-08

REFER TO SHEET 523 FOR CONSTRUCTION PLAN DETAILS

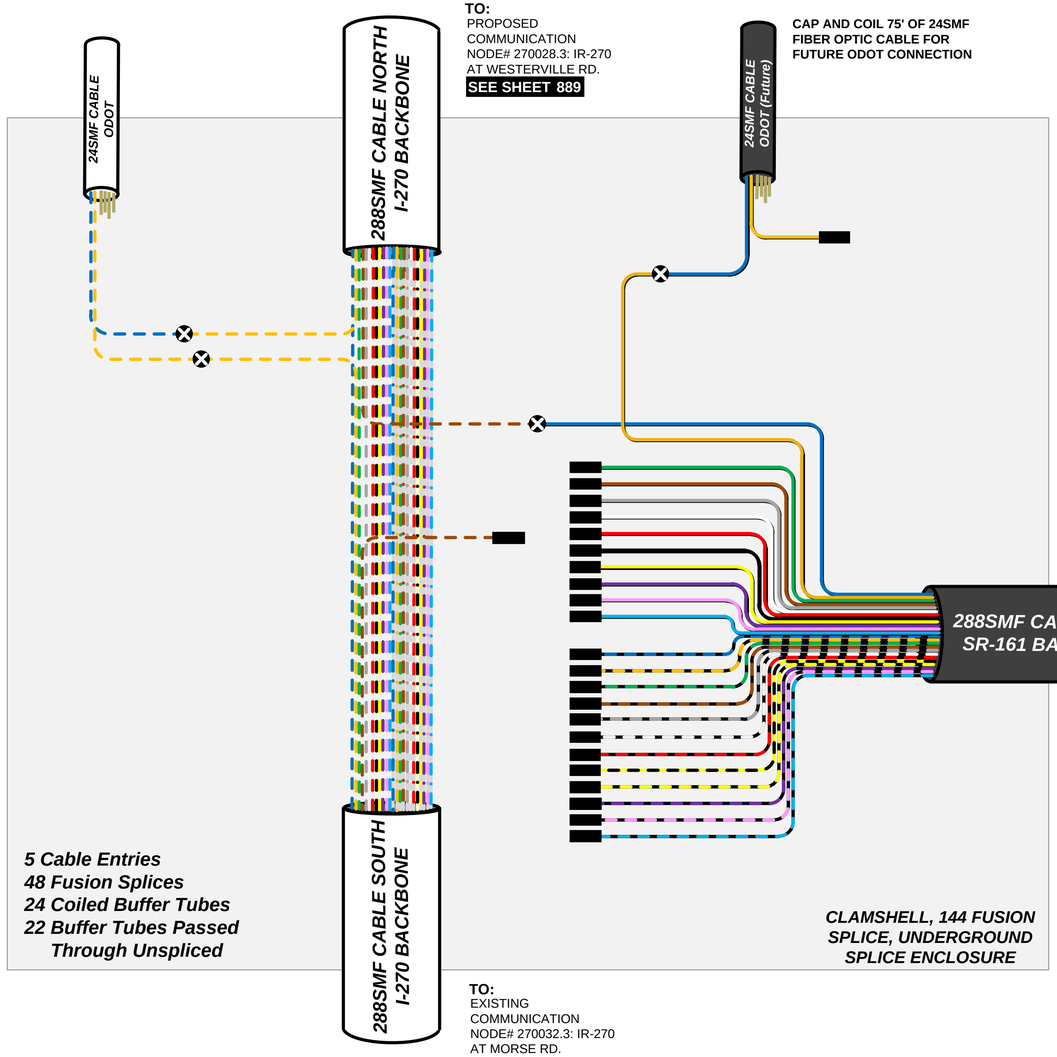
CIP: 540007 - 100005
PID NUMBER: 14522

SPLICE-08: SUNBURY RD. AT SR-161 WB RAMPS.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

853
911

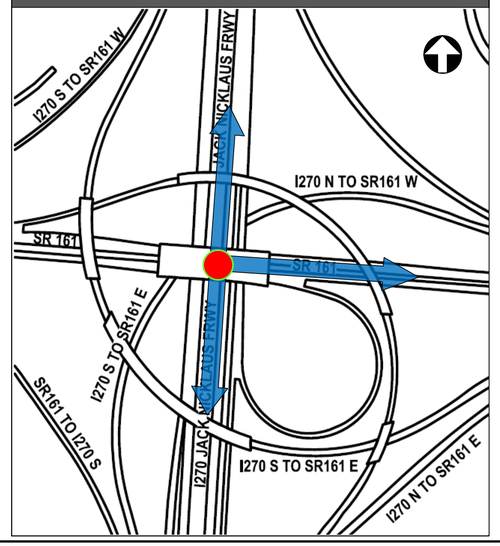
835-856.vsd - SPLICE-08 layout ~ last saved 5/2/2017 4:08:33 PM ~ printed: 3/11/2016 12:27:54 PM



LEGEND

- 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 – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX (T/R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- 72 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



SPLICE-09

REFER TO SHEET 521 FOR CONSTRUCTION PLAN DETAILS

CIP: 540007 - 100005
PID NUMBER: 14522

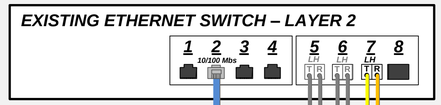
SPLICE-09: I-270 AT SR-161
COMMUNICATIONS DIAGRAM

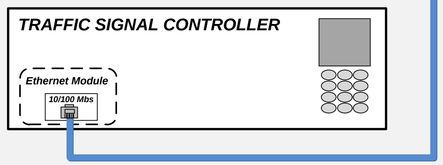
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

854
911

835-856.vsd - SPLICE-09 layout - last saved 5/2/2017 4:08:33 PM - printed: 3/11/2016 12:27:54 PM

TRAFFIC SIGNAL CABINET ASSEMBLY





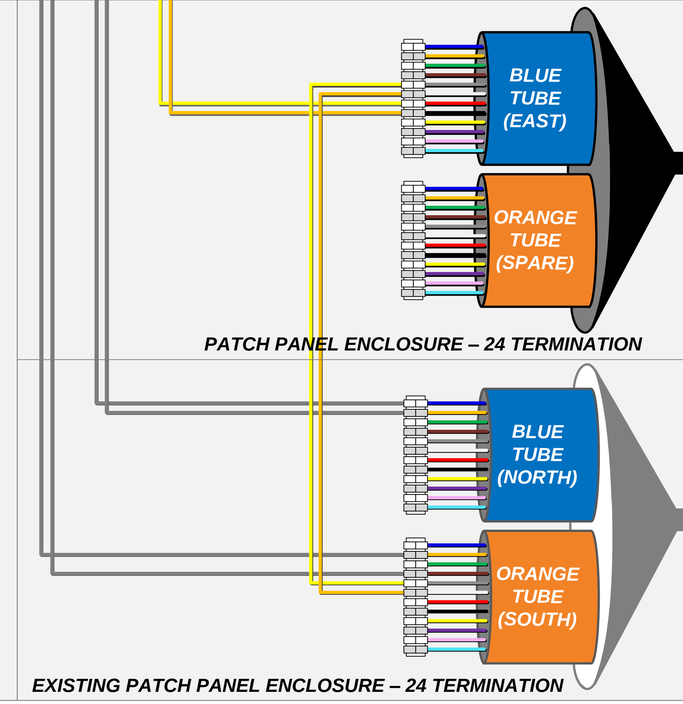
ETHERNET SWITCH PORT DESTINATION

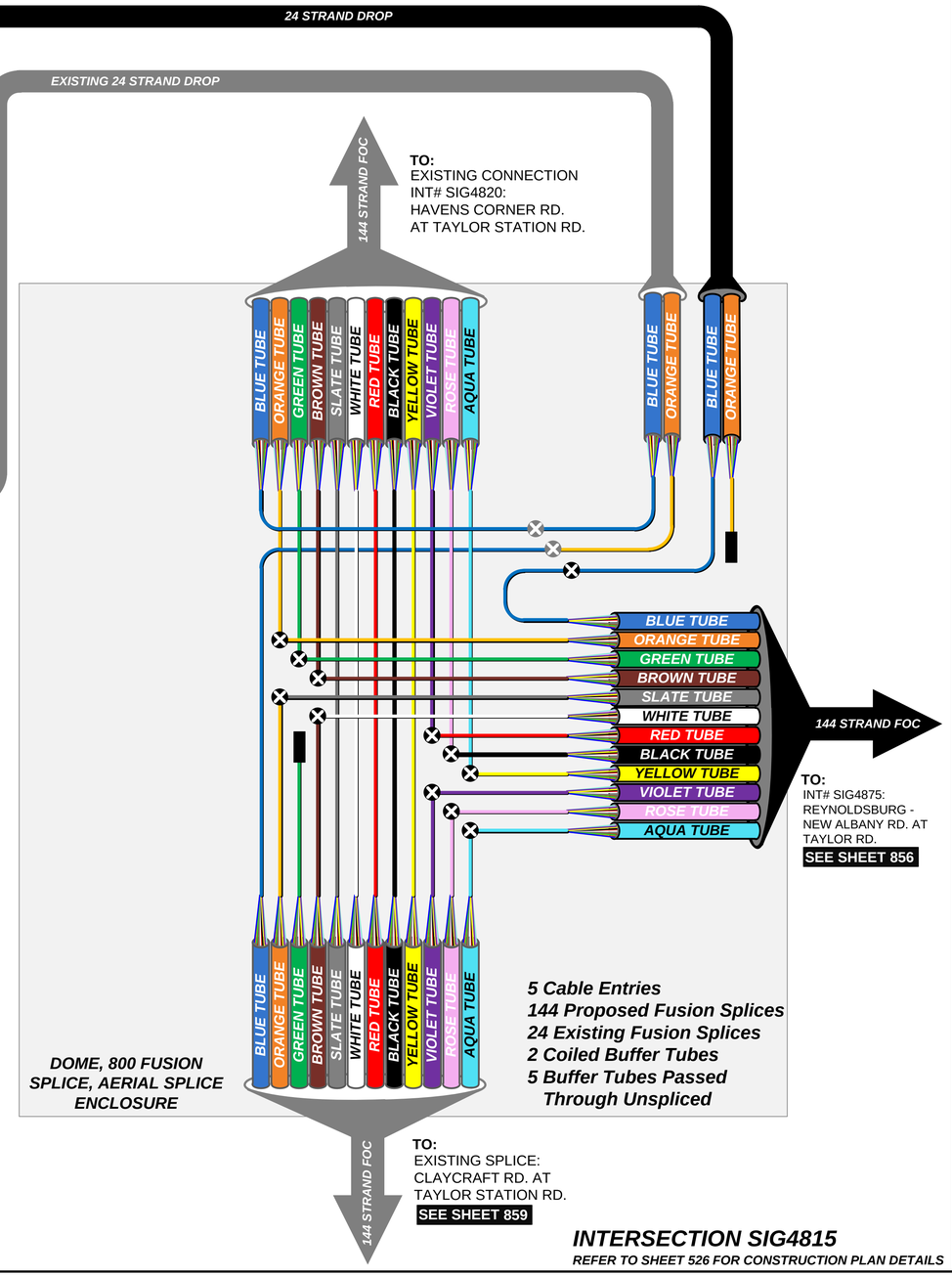
PORT 5: EXISTING CONNECTION TO INT# SIG4180: HAVENS CORNER RD. AT REYNOLDSBURG-NEW ALBANY RD.

PORT 6: EXISTING CONNECTION TO COMMUNICATION NODE# 270037.4: I-270 AT HAMILTON RD.

PORT 7: EXISTING COMMUNICATION NODE# 270039.5: IR-270 AT E. BROAD ST.

SEE SHEET 911

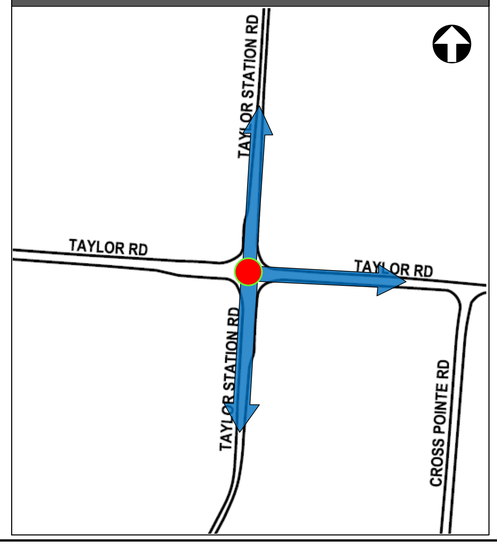




LEGEND

- 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 – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- 72 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



EXISTING PATCH PANEL ENCLOSURE – 24 TERMINATION

INTERSECTION SIG4815

REFER TO SHEET 526 FOR CONSTRUCTION PLAN DETAILS

CIP: 540007 - 100005
PID NUMBER: 14522

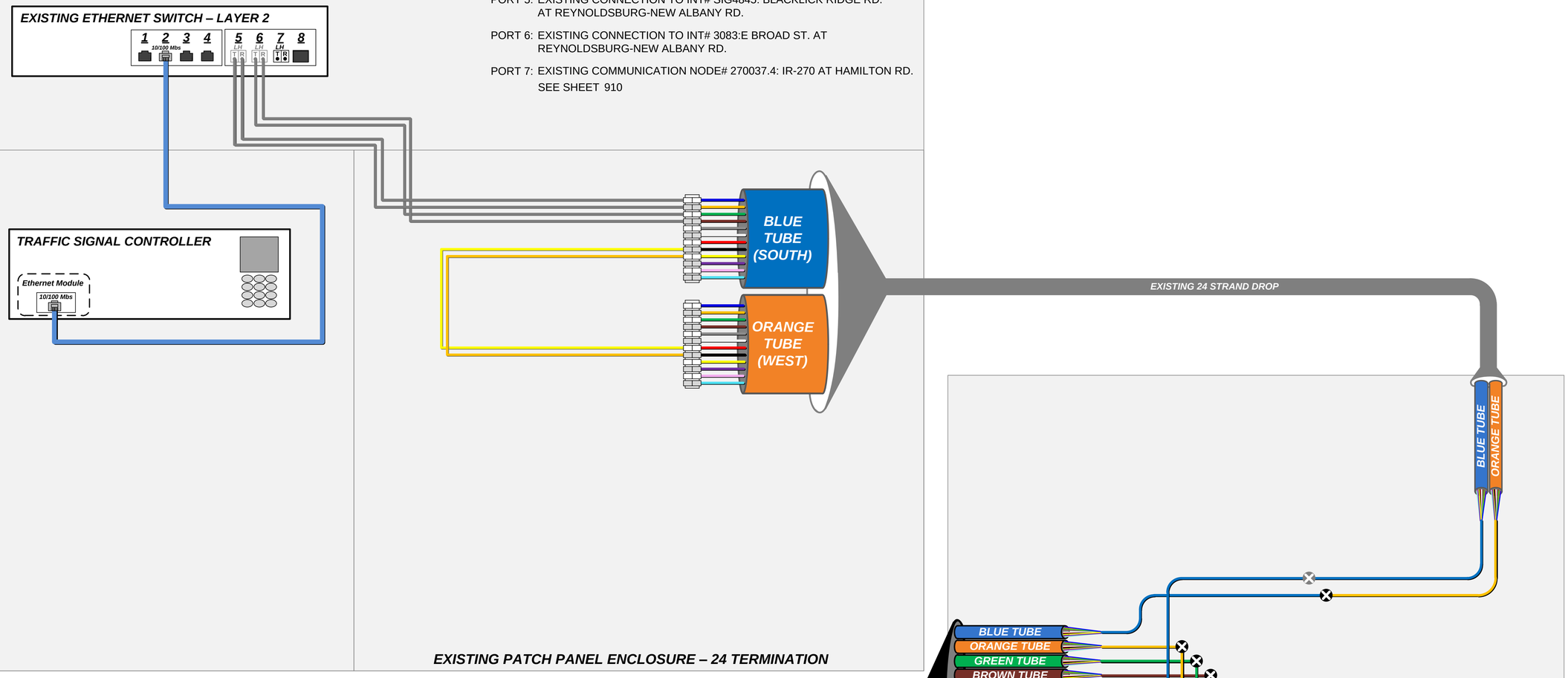
INT# SIG4815: TAYLOR RD. AT TAYLOR STATION RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

855
911

835-856.vsd - SIG4815 layout - last saved 5/2/2017 4:08:33 PM - printed: 3/11/2016 12:27:54 PM

TRAFFIC SIGNAL CABINET ASSEMBLY

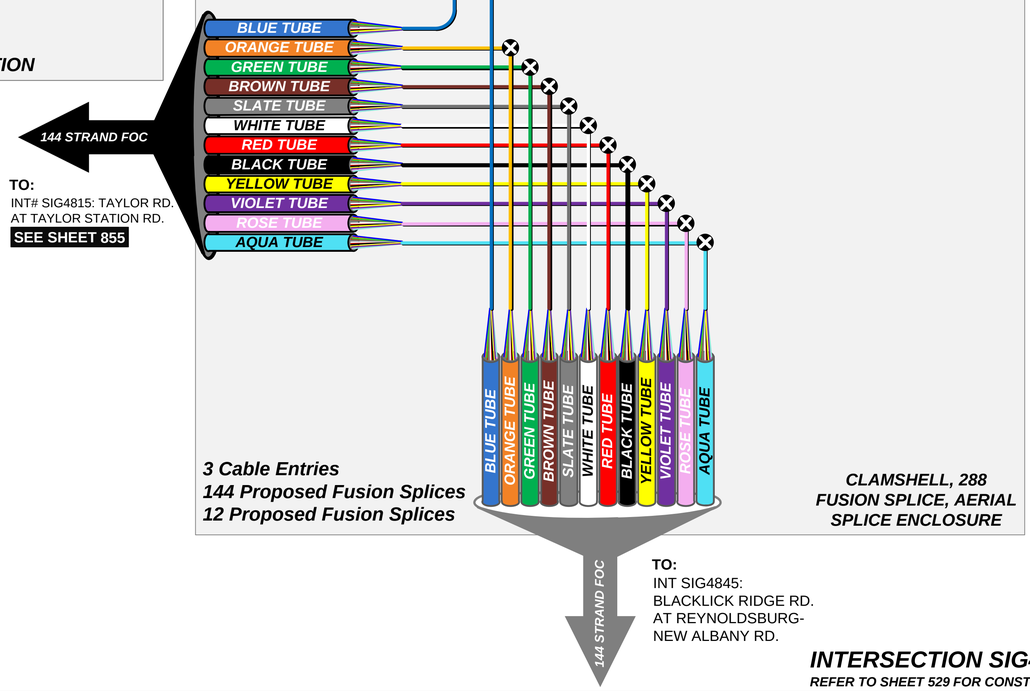


ETHERNET SWITCH PORT DESTINATION

PORT 5: EXISTING CONNECTION TO INT# SIG4845: BLACKLICK RIDGE RD. AT REYNOLDSBURG-NEW ALBANY RD.

PORT 6: EXISTING CONNECTION TO INT# 3083:E BROAD ST. AT REYNOLDSBURG-NEW ALBANY RD.

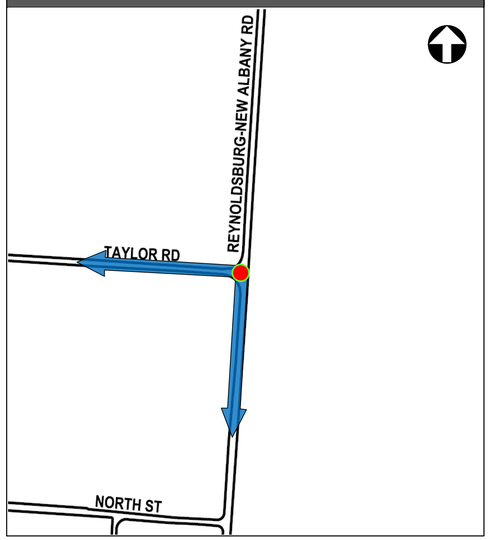
PORT 7: EXISTING COMMUNICATION NODE# 270037.4: IR-270 AT HAMILTON RD.
SEE SHEET 910



LEGEND

- 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 – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- 72 STRAND SMF
- WIRELESS ETHERNET RADIO

KEY PLAN



INTERSECTION SIG4875

REFER TO SHEET 529 FOR CONSTRUCTION PLAN DETAILS

CIP: 540007 - 100005
PID NUMBER: 14522

INT# SIG4875: REYNOLDSBURG - NEW ALBANY RD. AT TAYLOR RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

856
911

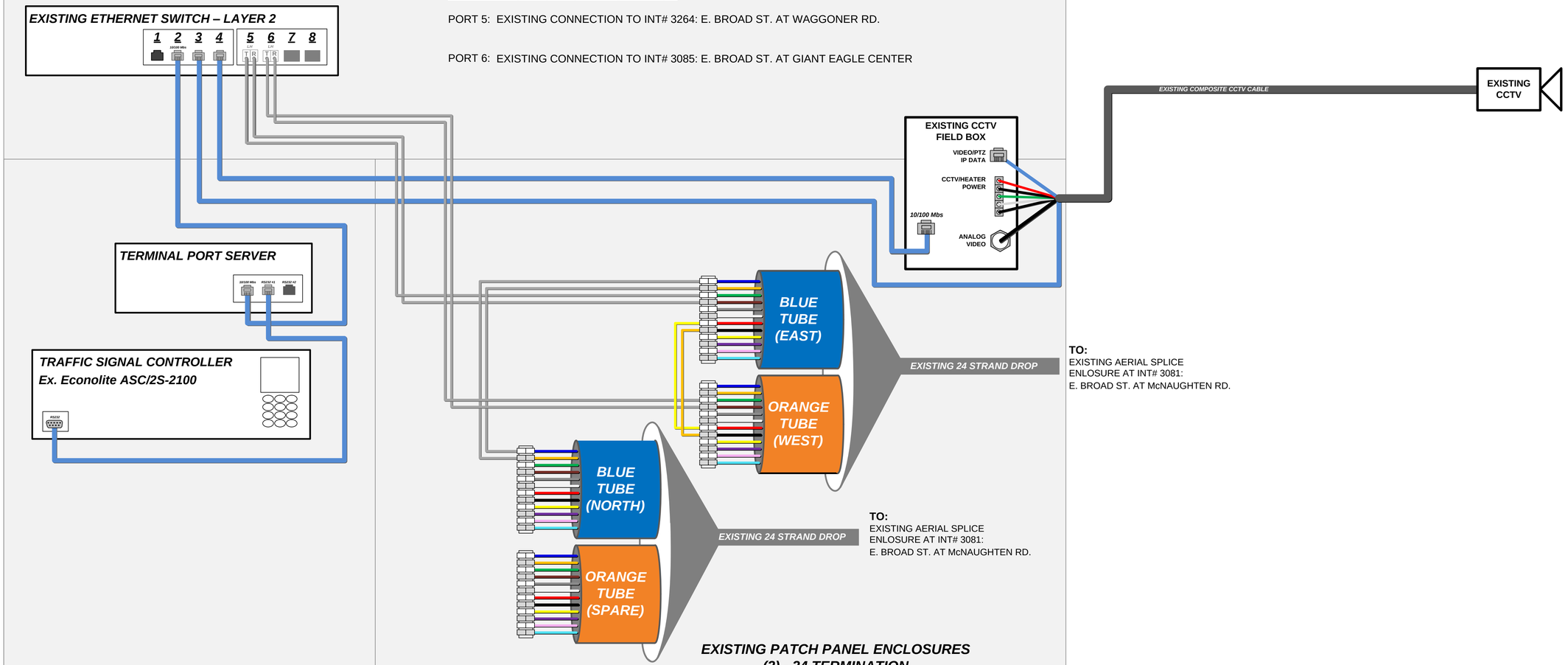
835-856.vsd - SIG4875 layout ~ last saved 5/2/2017 4:08:33 PM ~ printed: 3/11/2016 12:27:54 PM

TRAFFIC SIGNAL CABINET ASSEMBLY

ETHERNET SWITCH PORT DESTINATION

PORT 5: EXISTING CONNECTION TO INT# 3264: E. BROAD ST. AT WAGGONER RD.

PORT 6: EXISTING CONNECTION TO INT# 3085: E. BROAD ST. AT GIANT EAGLE CENTER

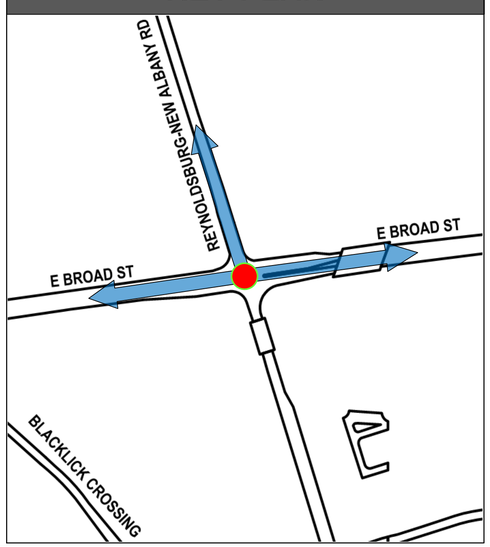


EXISTING PATCH PANEL ENCLOSURES
(2) - 24 TERMINATION

LEGEND

- 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 – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- *LH/ZX* GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

KEY PLAN



CIP: 540007 - 100005
PID NUMBER: 14522

INT# 3083: E. BROAD ST. AT REYNOLDSBURG-NEW ALBANY RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

857
911

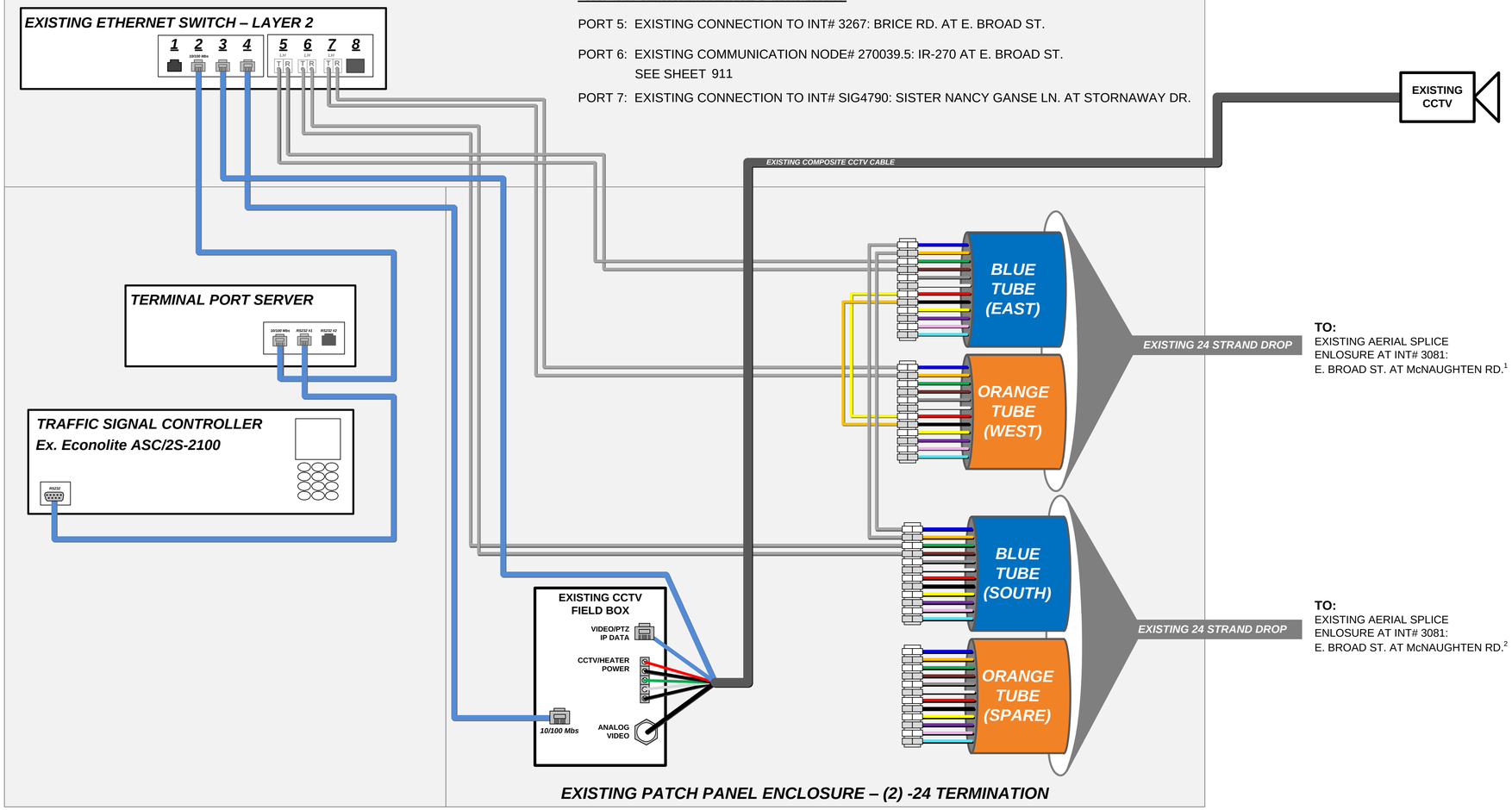
TRAFFIC SIGNAL CABINET ASSEMBLY

ETHERNET SWITCH PORT DESTINATION

PORT 5: EXISTING CONNECTION TO INT# 3267: BRICE RD. AT E. BROAD ST.

PORT 6: EXISTING COMMUNICATION NODE# 270039.5: IR-270 AT E. BROAD ST.
SEE SHEET 911

PORT 7: EXISTING CONNECTION TO INT# SIG4790: SISTER NANCY GANSE LN. AT STORNAWAY DR.



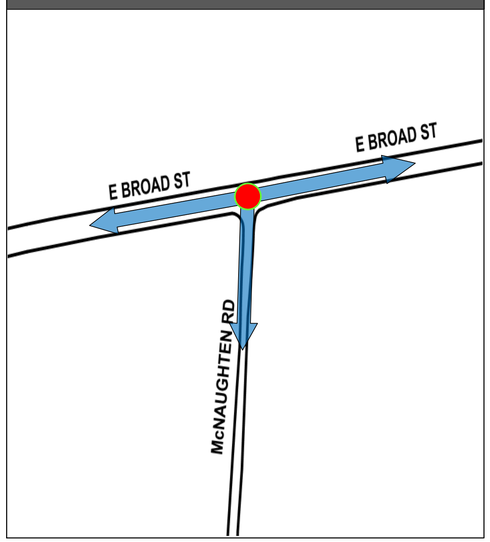
TO:
EXISTING AERIAL SPLICE
ENLOSURE AT INT# 3081:
E. BROAD ST. AT McNAUGHTEN RD.[1]

TO:
EXISTING AERIAL SPLICE
ENLOSURE AT INT# 3081:
E. BROAD ST. AT McNAUGHTEN RD.[2]

LEGEND

- 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 – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

KEY PLAN



[1] BLUE AND ORANGE BUFFER TUBES OF 24 STRAND DROP CABLE SPLICE TO BLUE BUFFER TUBE OF 144 STRAND CABLES FROM EAST AND SOUTH RESPECTIVELY.

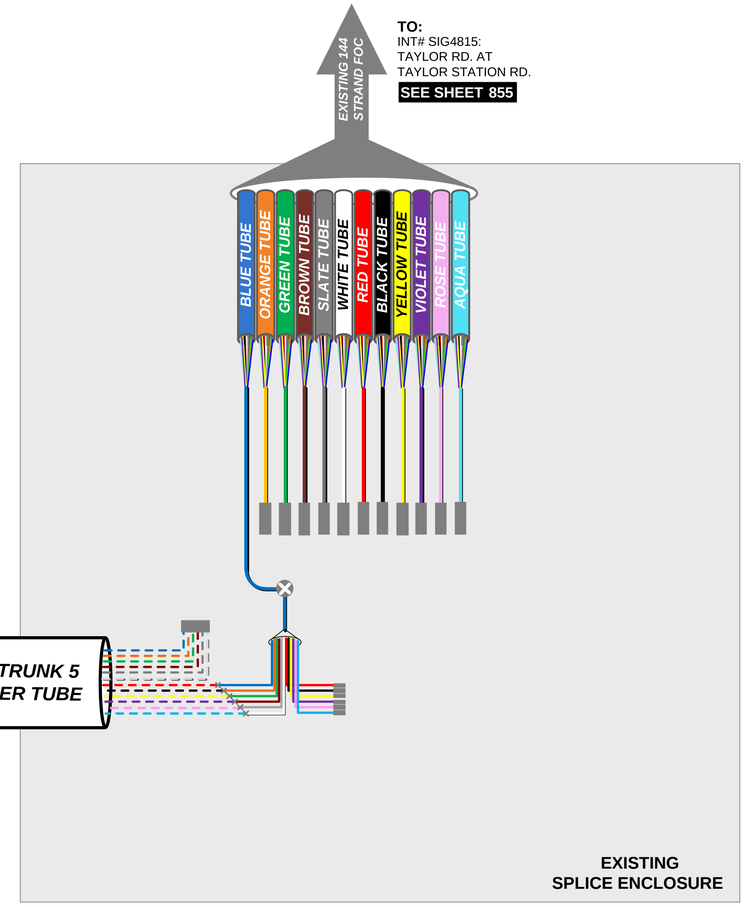
[2] BLUE BUFFER TUBE OF 24 STRAND DROP CABLE SPLICE TO BLUE BUFFER TUBE FROM WEST.

INTERSECTION 3081

CIP: 540007 - 100005
PID NUMBER: 14522

INT# 3081: E. BROAD ST. AT McNAUGHTEN RD.
COMMUNICATIONS DIAGRAM

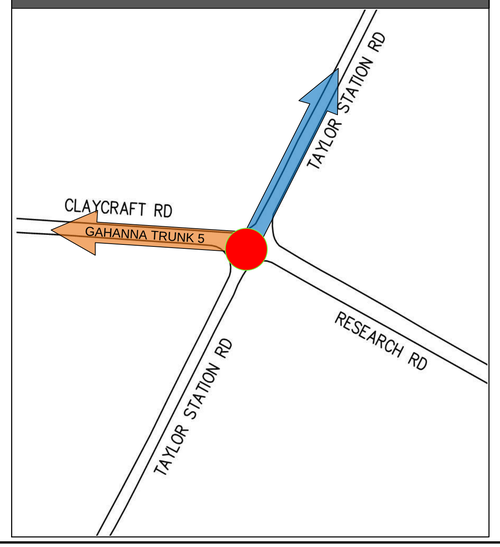
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT



LEGEND

- 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 – 6 FIBERS
- FUSION SPLICE – 12 FIBER BUFFER TUBE
- EXISTING FUSION SPLICE – 12 FIBER BUFFER TUBE
- LH/ZX (T R) GBIC OPTICAL TRANSCEIVER LH - SHORT HAUL LED ZX – LONG HAUL LASER
- 8P8C CONNECTOR
- 24 STRAND SMF
- 144 STRAND SMF
- COLUMBUS DOT FIBER
- WIRELESS ETHERNET RADIO

KEY PLAN



CIP: 540007 - 100005
PID NUMBER: 14522

EXISTING SPLICE ENCLOSURE: CLAYCRAFT RD. AT TAYLOR STATION RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

SHEET INTENTIONALLY LEFT BLANK

CIP: 540007 - 100005
PID NUMBER: 14522

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

860
911

857-864.vsd - BLANK 17 layout ~ last saved 5/2/2017 4:10:12 PM ~ printed: 3/11/2016 12:29:32 PM

SHEET INTENTIONALLY LEFT BLANK

CIP: 540007 - 100005
PID NUMBER: 14522

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

857-864.vsd - BLANK 18 layout ~ last saved 5/2/2017 4:10:12 PM ~ printed: 3/11/2016 12:29:32 PM

SHEET INTENTIONALLY LEFT BLANK

CIP: 540007 - 100005
PID NUMBER: 14522

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

862
911

857-864.vsd - BLANK 19 layout ~ last saved 5/2/2017 4:10:12 PM ~ printed: 3/11/2016 12:29:32 PM

SHEET INTENTIONALLY LEFT BLANK

CIP: 540007 - 100005
PID NUMBER: 14522

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

857-864.vsd - BLANK 20 layout ~ last saved 5/2/2017 4:10:12 PM ~ printed: 3/11/2016 12:29:32 PM

EXISTING 48" PULL BOX

7 Cable Entries
432 Fusion Splices
216 Existing Splices
2 Existing Coiled Buffer Tubes

288SMF CABLE WEST I-70 BACKBONE

TO:
EXISTING COMMUNICATION NODE# 270008.7: IR-270 AT IR-70

288SMF CABLE EAST I-670 BACKBONE

TO:
PROPOSED COMMUNICATION NODE# 670001.4 IR-670 AT GRANDVIEW AVE

288SMF CABLE EAST I-70 BACKBONE

TO:
PROPOSED COMMUNICATION NODE# 070097.3: BROAD ST. AT IR-70

1-6 7-12 (x4)

24SMF CABLE I-70 BACKBONE (CTSS)

144SMF DROP CABLE WEST I-70 BACKBONE (DoT)

144SMF DROP CABLE EAST I-70 BACKBONE (DoT)

144SMF DROP CABLE EAST I-670 BACKBONE (DoT)

DOME, 800 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE

MATCHLINE A - SEE SHEET 903

LEGEND

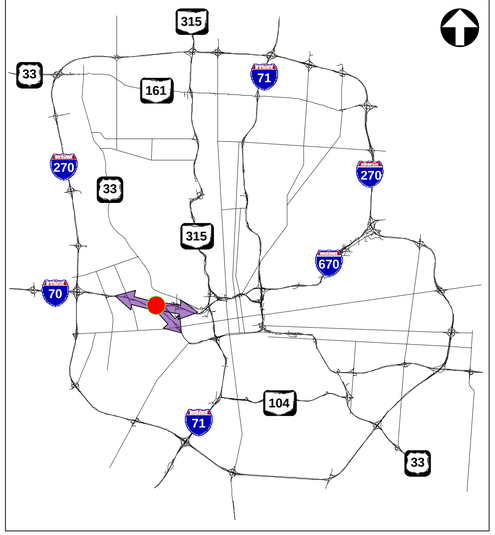
EQUIPMENT CABLE
- FIBER PATCH CABLES Tx/Tx
- CAT 5E CABLE
- FIBER PATCH CABLES Tx/Rx CROSSOVER
- EXISTING FIBER PATCH CABLES

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



CIP: 540007 - 100005
PID NUMBER: 14522

EXISTING COMMUNICATION NODE# 070096.0: IR-70 AT IR-670

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

Connections to Existing Nodes.vsd - 070096.0_2 layout ~ last saved 5/2/2017 4:11:49 PM ~ printed: 11/30/2016 6:20:50 PM

MATCHLINE B - SEE SHEET 866

COMMUNICATION NODE EQUIPMENT CABINET (#2)

LAYER 3 ETHERNET SWITCH

Ports / SFP Modules: 1 2 LH 3 LH 4 LH 5 LH 6 LH 7 8 9 10 11 12

TO: CONTROL EQUIPMENT MONITOR

10/100 TX — 1e 2e 3e 4e

LAYER 2 ETHERNET SWITCH — 1000mbs SFP — 1g LH 2g LH 3g LH 4g LH

24 STRAND LC PATCH PANEL

24SMF DROP CABLE[1]

24 STRAND LC PATCH PANEL

CTSS 4RU PATCH PANEL

CTSS 1RU PATCH PANEL

DoT 4RU PATCH PANEL

EXISTING CCTV CABINET

CCTV FIELD BOX

- VIDEO/PTZ IP DATA
- CCTV/HEATER POWER
- 10/100 Mbs
- ANALOG VIDEO

EXISTING CCTV

EXISTING COMPOSITE CCTV CABLE

144SMF DROP CABLE[2] (DoT TRUNK)

144SMF DROP CABLE[2] (CTSS TRUNK)

24SMF DROP CABLE[2] I-70 BACKBONE (CTSS)

144SMF DROP CABLE WEST I-70 BACKBONE (DoT)

144SMF DROP CABLE EAST I-70 BACKBONE (DoT)

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

WEST: ORANGE 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

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

LAYER 3 ETHERNET SWITCH PORT DESTINATION

PORT 2: EXISTING COMMUNICATION NODE# 070096.0: IR-70 AT IR-670
SEE SHEET 903

PORT 3: PROPOSED COMMUNICATION NODE# 070097.3: BROAD ST. AT IR-70
SEE SHEET 867

PORT 4: EXISTING COMMUNICATION NODE# 270008.7: IR-270 AT IR-70
SEE SHEET 906

PORT 5: INT# 4138: I-70 WB RAMPS AT WILSON RD.
SEE SHEET 633

PORT 6: INT# 4237: TWIN CREEKS DR. AT WILSON RD.
SEE SHEET 632

LAYER 2 ETHERNET SWITCH PORT DESTINATION

PORT 1g: INT# 1043: BROAD ST. AT EUREKA AVE.
SEE SHEET 652

PORT 2g: INT# 1046: BROAD ST. AT HAGUE AVE.
SEE SHEET 649

PORT 3g: INT# 4137: I-70 EB RAMPS AT WILSON RD.
SEE SHEET 634

PORT 4g: INT# 4136: FISHER RD. AT WILSON RD.
SEE SHEET 635

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

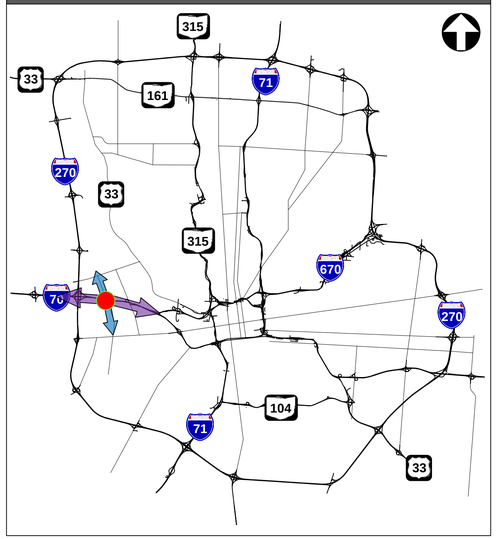
FIBER SPLICING (DARK/LIGHT – PROPOSED/EXISTING)

- 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 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 070094.1

REFER TO SHEET 548 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 599 FOR COMMUNICATIONS OVERVIEW

CIP: 540007 - 100005
PID NUMBER: 14522

PROPOSED COMMUNICATION NODE# 070094.1: IR-70 AT WILSON RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

Phase C comm nodes.vsd - 070094.1 layout ~ last saved 11/28/2018 11:01:42 AM ~ printed: 11/28/2018 11:01:42 AM

PROPOSED 48" PULL BOX

6 Cable Entries
336 Fusion Splices
10 Buffer Tubes Passed Through Unspliced

288SMF CABLE WEST I-70 BACKBONE

288SMF CABLE EAST I-70 BACKBONE

TO:
EXISTING COMMUNICATION NODE# 270008.7: IR-270 AT IR-70

TO:
EXISTING COMMUNICATION NODE# 070096.0: IR-70 AT IR-670

24SMF CABLE I-70 BACKBONE (CTSS)

144SMF DROP CABLE WEST I-70 BACKBONE (DoT)

144SMF DROP CABLE EAST I-70 BACKBONE (DoT)

24SMF CABLE ODOT (future)

DOME, 800 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE

CAP AND COIL 75' OF 24SMF FIBER OPTIC DROP CABLE FOR FUTURE ODOT CONNECTION

MATCHLINE A - SEE THIS SHEET

144SMF CABLE NORTH WILSON RD TRUNK

TO:
INT# 4138: I-70 WB RAMPS AT WILSON RD.
SEE SHEET 633

24SMF CABLE ODOT (Future)

CAP AND COIL 150' OF 24SMF FIBER OPTIC CABLE FOR FUTURE ODOT CONNECTION

PROPOSED 48" PULL BOX

5 Cable Entries
288 Fusion Splices
3 Coiled Buffer Tubes

1-6
7-12

CLAMSHELL, 288 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE

2 Cable Entries
24 Fusion Splices

CLAMSHELL, 144 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE

144SMF CABLE SOUTH WILSON RD TRUNK

TO:
INT# 4137: I-70 EB RAMPS AT WILSON RD.
SEE SHEET 634

144SMF DROP CABLE (DoT TRUNK)

144SMF DROP CABLE (CTSS TRUNK)

MATCHLINE A - SEE THIS SHEET

24SMF CABLE I-70 BACKBONE (CTSS)

144SMF DROP CABLE WEST I-70 BACKBONE (DoT)

144SMF DROP CABLE EAST I-70 BACKBONE (DoT)

24SMF DROP CABLE I-70 BACKBONE (CTSS)

MATCHLINE B - SEE SHEET 865

LEGEND

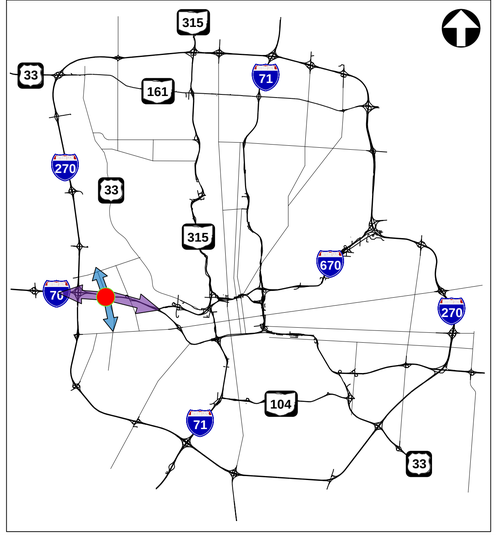
EQUIPMENT CABLE
- FIBER PATCH CABLES Tx/Tx
- FIBER PATCH CABLES Tx/Rx CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE

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 070094.1
REFER TO SHEET 548 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 599 FOR COMMUNICATIONS OVERVIEW

CIP: 540007 - 100005
PID NUMBER: 14522

PROPOSED COMMUNICATION NODE# 070094.1: IR-70 AT WILSON RD.
FIBER OPTIC SPLICING DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

Phase C comm nodes.vsd - 070094.1-2 layout ~ last saved 11/28/2018 11:01:42 AM ~ printed: 11/28/2018 11:01:42 AM

COMMUNICATION NODE EQUIPMENT CABINET (#2)

LAYER 3 ETHERNET SWITCH

Ports: 1 2 3 4 5 6 7 8 9 10 11 12

SFP Modules: 2 LH, 3 LH, 4 LH, 5 LH, 6 LH, 7 LH (T R)

TO: CONTROL EQUIPMENT MONITOR

EXISTING CCTV CABINET

CCTV FIELD BOX

VIDEO/PTZ IP DATA

CCTV/HEATER POWER

10/100 Mbs

ANALOG VIDEO

EXISTING COMPOSITE CCTV CABLE

EXISTING CCTV

MATCHLINE B - SEE SHEET 868

144SMF DROP CABLE[2] (DoT TRUNK)

144SMF DROP CABLE[2] (CTSS TRUNK)

144SMF DROP CABLE WEST I-70 BACKBONE (CTSS)

144SMF DROP CABLE WEST I-70 BACKBONE (DoT)

24 STRAND LC PATCH PANEL

24SMF DROP CABLE[1]

24 STRAND LC PATCH PANEL

ETHERNET SWITCH PORT DESTINATION

PORT 2: EXISTING COMMUNICATION NODE# 070096.0: IR-70 AT IR-670
SEE SHEET 903

PORT 3: PROPOSED COMMUNICATION NODE# 070094.1: IR-70 AT WILSON RD.
SEE SHEET 865

PORT 4: INT# 1022: BROAD ST. AT STEVENS AVE.
SEE SHEET 661

PORT 5: INT# 1022: BROAD ST. AT STEVENS AVE.
SEE SHEET 661

PORT 6: INT# 1038: BROAD ST. AT LECHNER AVE.
SEE SHEET 658

PORT 7: INT# 1012: BROAD ST. AT I-70 EB RAMPS
SEE SHEET 659

PORT 8: INT# 1011: BROAD ST. AT I-70 WB RAMPS
SEE SHEET 660

COMMUNICATION NODE FIBER TERMINATION CABINET (#1)

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

WEST
- BLUE TUBE
- ORANGE TUBE
- GREEN TUBE
- BROWN TUBE
- SLATE TUBE
- WHITE TUBE

DoT 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

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.

LEGEND

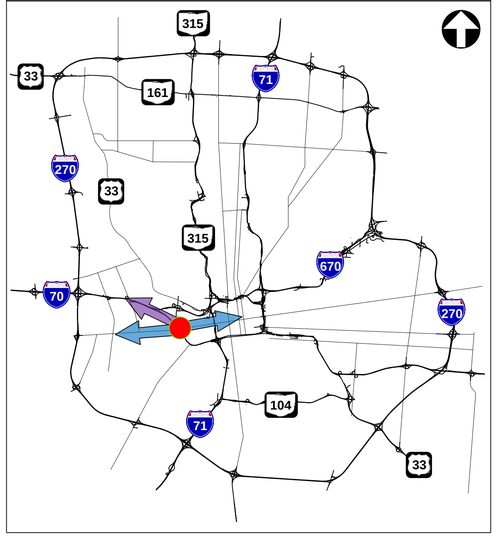
EQUIPMENT CABLE
- FIBER PATCH CABLES Tx/Tx
- CAT 5E CABLE
- FIBER PATCH CABLES Tx/Rx CROSSOVER
- EXISTING FIBER PATCH CABLES

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 070097.3

REFER TO SHEET 595 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 600 FOR COMMUNICATIONS OVERVIEW

CIP: 540007 - 100005
PID NUMBER: 14522

PROPOSED COMMUNICATION NODE# 070097.3: BROAD ST. AT IR-70
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

867
911

Phase C comm nodes.vsd - 070097.3 layout - last saved 11/28/2018 11:01:42 AM ~ printed: 11/28/2018 11:01:42 AM

TO:
EXISTING
COMMUNICATION
NODE# 070096.0:
IR-70 AT IR-670

288SMF CABLE WEST I-70 BACKBONE

24SMF CABLE ODOT (Future)

CAP AND COIL 150' OF 24SMF FIBER OPTIC CABLE FOR FUTURE ODOT CONNECTION

EXISTING 32" PULL BOX

4 Cable Entries
288 Fusion Splices
2 Coiled Buffer Tubes

144SMF DROP CABLE WEST I-70 BACKBONE (CTSS)

144SMF DROP CABLE WEST I-70 BACKBONE (DoT)

CLAMSHELL, 288 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE

MATCHLINE A - SEE THIS SHEET

TO:
INT# 1011: BROAD ST.
AT I-70 WB RAMPS
SEE SHEET 660

CAP AND COIL 150' OF 24SMF FIBER OPTIC CABLE FOR FUTURE ODOT CONNECTION

24SMF CABLE ODOT (Future)

MATCHLINE A - SEE THIS SHEET

EXISTING 32" PULL BOX

5 Cable Entries
288 Fusion Splices
25 Coiled Buffer Tubes

ODOT FIBERS
INSET DETAIL A
SEE SHEET 869

288SMF CABLE EAST W BROAD ST TRUNK

144SMF DROP CABLE WEST I-70 BACKBONE (CTSS)

144SMF DROP CABLE WEST I-70 BACKBONE (DoT)

TO:
INT# 1022: BROAD ST.
AT STEVENS AVE.
SEE SHEET 661

144SMF CABLE WEST W BROAD ST TRUNK

TO:
INT# 1012: BROAD ST.
AT I-70 EB RAMPS
SEE SHEET 659

144SMF DROP CABLE (DoT TRUNK)

144SMF DROP CABLE (CTSS TRUNK)

CLAMSHELL, 288 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE

MATCHLINE B - SEE SHEET 867

LEGEND

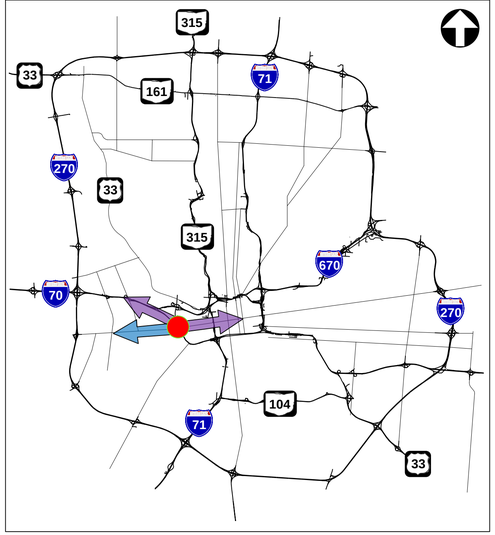
EQUIPMENT CABLE
- FIBER PATCH CABLES Tx/Tx
- CAT 5E CABLE
- FIBER PATCH CABLES Tx/Rx CROSSOVER
- EXISTING FIBER PATCH CABLES

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



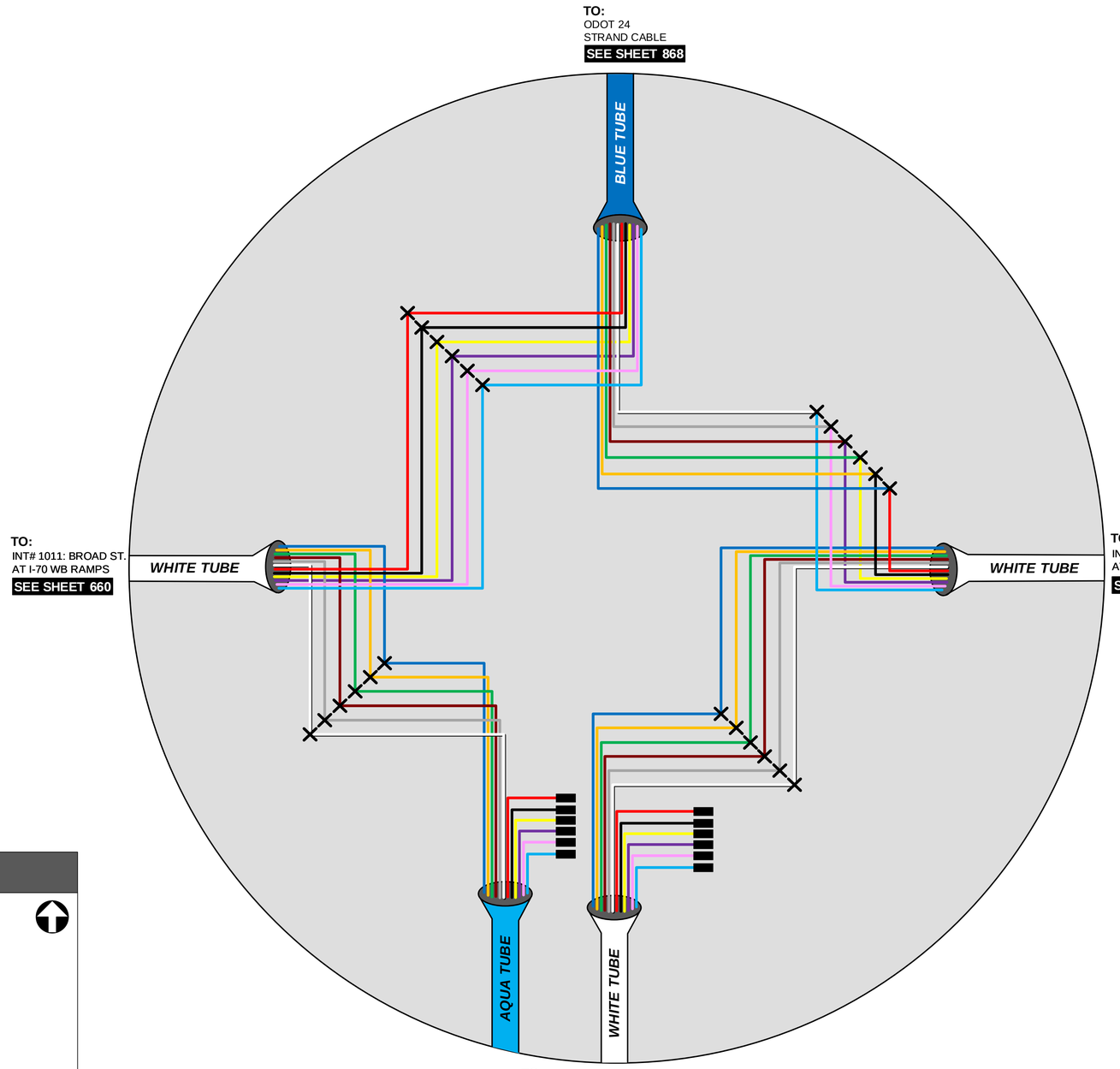
COMMUNICATION NODE 070097.3
REFER TO SHEET 595 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 600 FOR COMMUNICATIONS OVERVIEW

CIP: 540007 - 100005
PID NUMBER: 14522

PROPOSED COMMUNICATION NODE# 070097.3: BROAD ST. AT IR-70
FIBER OPTIC SPLICING DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

Phase C comm nodes.vsd - 070097.3-2 layout - last saved 11/28/2018 11:01:42 AM - printed: 11/28/2018 11:01:42 AM



INSET DETAIL A
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

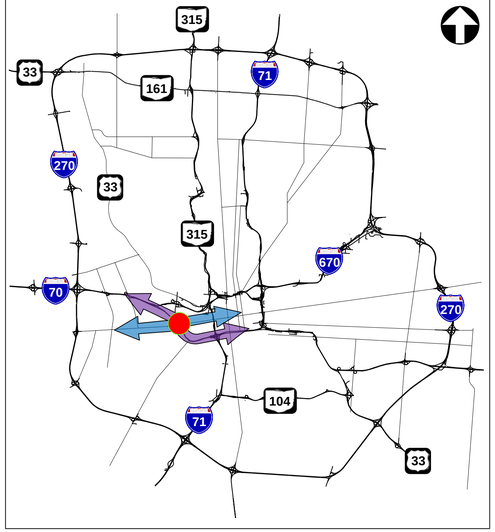
FIBER SPLICING (DARK/LIGHT – PROPOSED/EXISTING)

- 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* 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 070097.3

REFER TO SHEET 595 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 600 FOR COMMUNICATIONS OVERVIEW

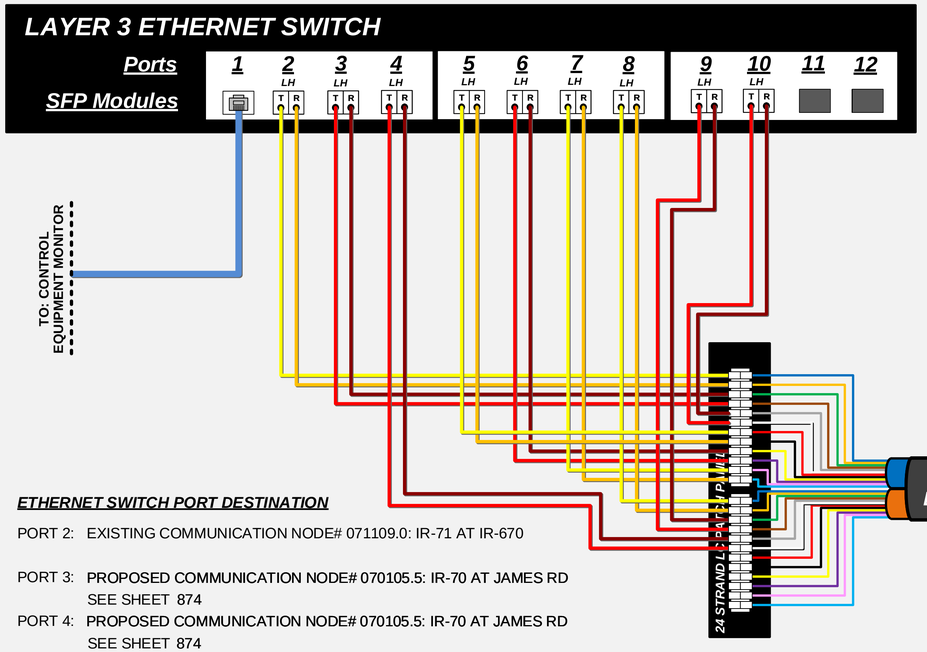
CIP: 540007 - 100005
PID NUMBER: 14522

PROPOSED COMMUNICATION NODE# 070097.3: BROAD ST. AT IR-70
FIBER OPTIC SPLICING DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

Phase C comm nodes.vsd - 070097.3-ODOT layout - last saved 11/28/2018 11:01:42 AM ~ printed: 11/28/2018 11:01:42 AM

COMMUNICATION NODE EQUIPMENT CABINET (#2)



ETHERNET SWITCH PORT DESTINATION

PORT 2: EXISTING COMMUNICATION NODE# 071109.0: IR-71 AT IR-670

PORT 3: PROPOSED COMMUNICATION NODE# 070105.5: IR-70 AT JAMES RD
SEE SHEET 874

PORT 4: PROPOSED COMMUNICATION NODE# 070105.5: IR-70 AT JAMES RD
SEE SHEET 874

PORT 5: INT# 2018: COLLEGE AVE. AT LIVINGSTON AVE.
SEE SHEET 756

PORT 6: INT# 2000: ALUM CREEK DR. AT LIVINGSTON AVE.
SEE SHEET 754

PORT 7: INT# 2016: LIVINGSTON AVE. AT NELSON RD.
SEE SHEET 753

PORT 8: INT# 2195: ALUM CREEK DR. AT ALUM INDUSTRIAL DR.
SEE SHEET 822

PORT 9: INT# 2001: ALUM CREEK DR. AT I-70 EB RAMPS
SEE SHEET 823

PORT 10: INT# 2017: I-70 WB RAMPS AT LIVINGSTON AVE.
SEE SHEET 755

LEGEND

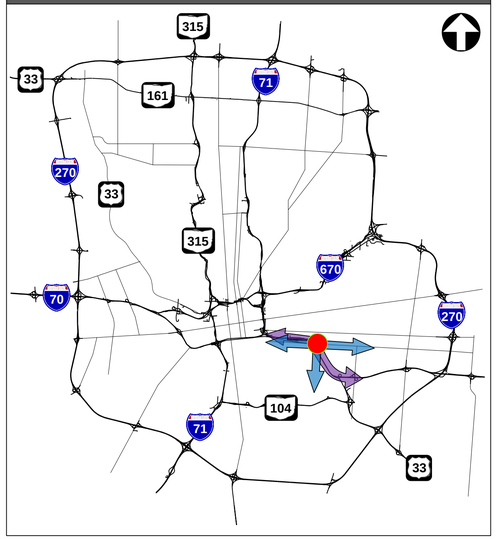
EQUIPMENT CABLE
- FIBER PATCH CABLES Tx/Tx
- CAT 5E CABLE
- FIBER PATCH CABLES Tx/Rx CROSSOVER
- EXISTING FIBER PATCH CABLES

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

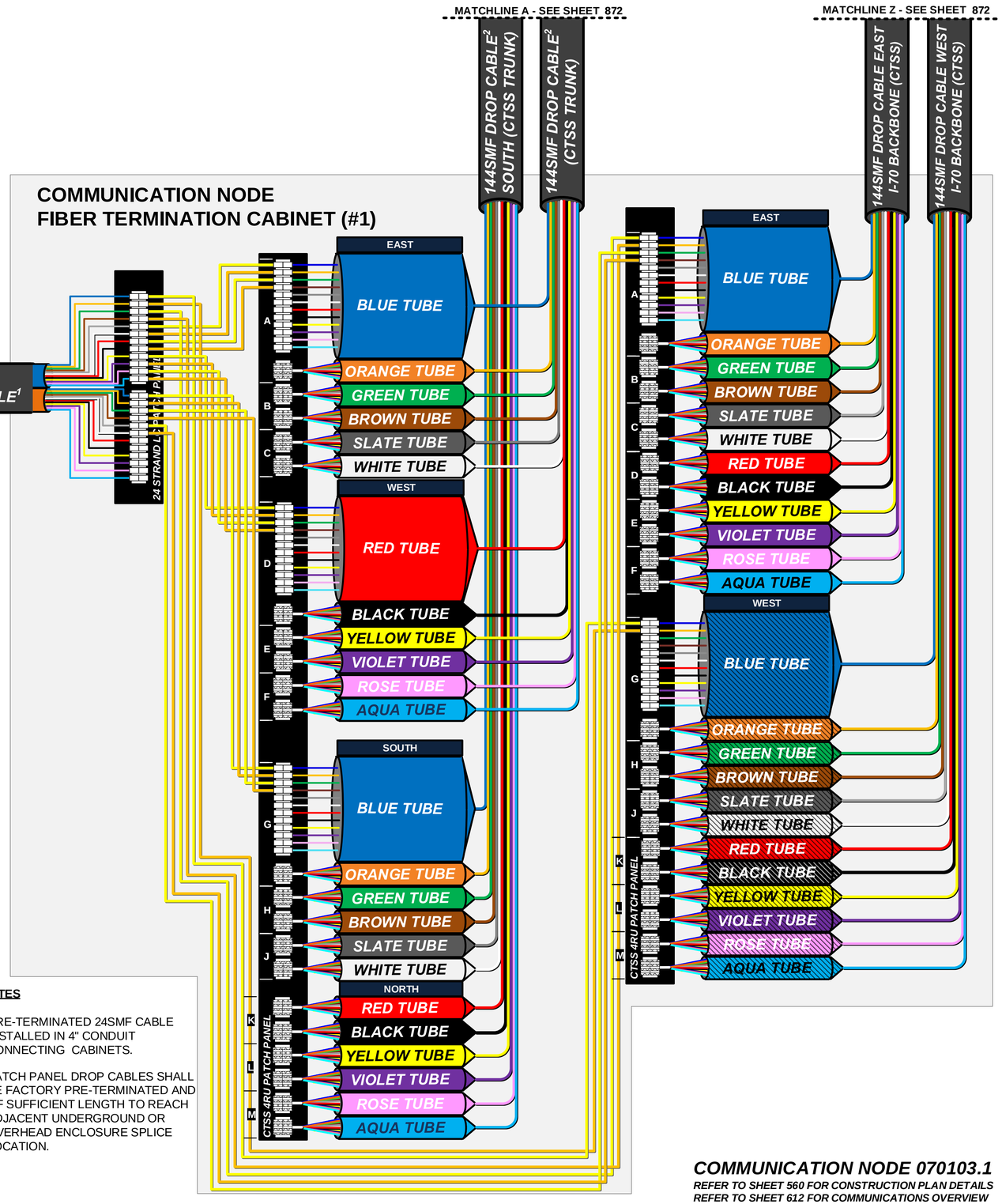
KEY PLAN



MATCHLINE A - SEE SHEET 872

MATCHLINE Z - SEE SHEET 872

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 070103.1

REFER TO SHEET 560 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 612 FOR COMMUNICATIONS OVERVIEW

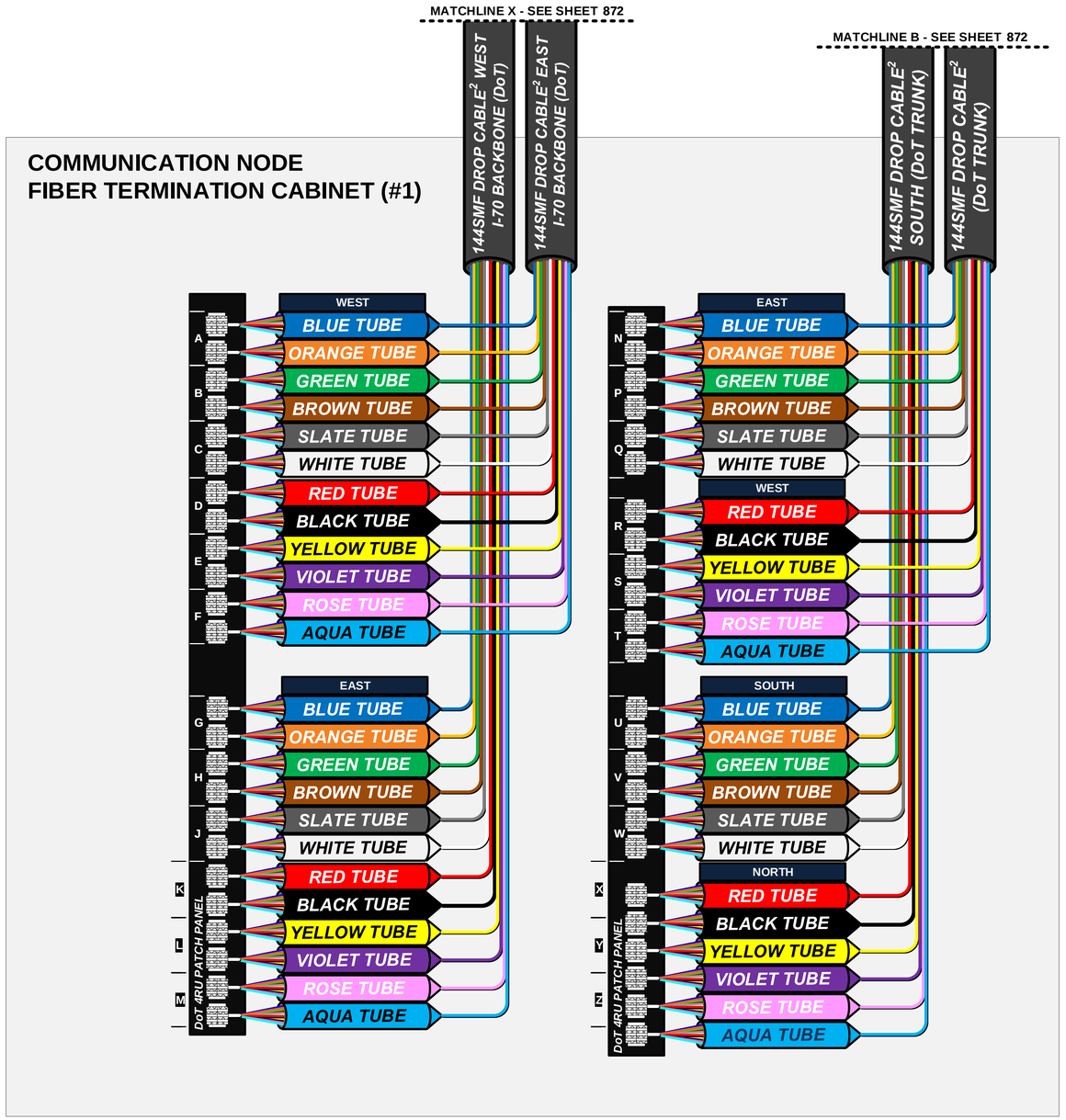
CIP: 540007 - 100005
PID NUMBER: 14522

PROPOSED COMMUNICATION NODE# 070103.1: IR-70 AT LIVINGSTON AVE.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

870
911

Phase C comm nodes.vsd - 070103.1 layout ~ last saved 11/28/2018 11:01:42 AM ~ printed: 11/28/2018 11:01:42 AM



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

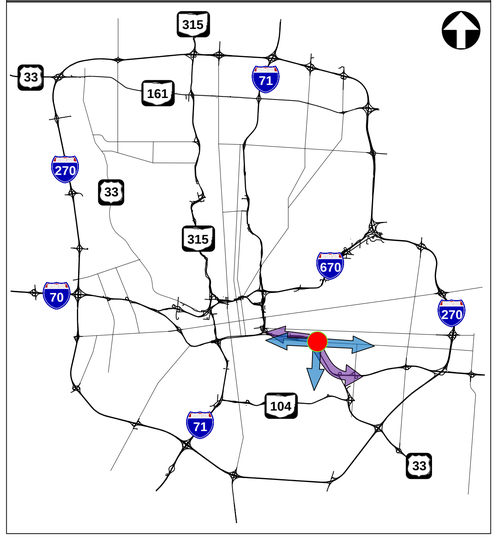
FIBER SPLICING (DARK/LIGHT – PROPOSED/EXISTING)

- 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



[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 070103.1

REFER TO SHEET 560 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 612 FOR COMMUNICATIONS OVERVIEW

CIP: 540007 - 100005
PID NUMBER: 14522

PROPOSED COMMUNICATION NODE# 070103.1: IR-70 AT LIVINGSTON AVE.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

Phase C comm nodes.vsd - 070103.1 (DoT) layout - last saved 11/28/2018 11:01:42 AM - printed: 11/28/2018 11:01:42 AM

TO:
EXISTING COMMUNICATION NODE# 070100.9: IR-70 AT IR-71

288SMF CABLE WEST I-70 BACKBONE

CAP AND COIL 150' OF 24SMF FIBER OPTIC CABLE FOR FUTURE ODOT CONNECTION

24SMF CABLE ODOT (Future)

144SMF CABLE WEST I-70 BACKBONE (DoT)

MATCHLINE D - SEE THIS SHEET

144SMF CABLE EAST I-70 BACKBONE (DoT)

EXISTING 32" PULL BOX

CLAMSHELL, 288 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE

24SMF CABLE

24SMF CABLE CCTV

TO CCTV CABINET AT I-70 AND LIVINGSTON AVE.

144SMF CABLE EAST I-70 BACKBONE (CTSS)

144SMF CABLE W I-70 BACKBONE (C

EXISTING 32" PULL BOX

CLAMSHELL, 288 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE

288SMF CABLE EAST I-70 BACKBONE

24SMF CABLE ODOT (Future)

MATCHLINE C - SEE THIS SHEET

TO:
PROPOSED COMMUNICATION NODE# 070105.5: IR-70 AT JAMES RD
SEE SHEET 875

CAP AND COIL 150' OF 24SMF FIBER OPTIC CABLE FOR FUTURE ODOT CONNECTION.

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

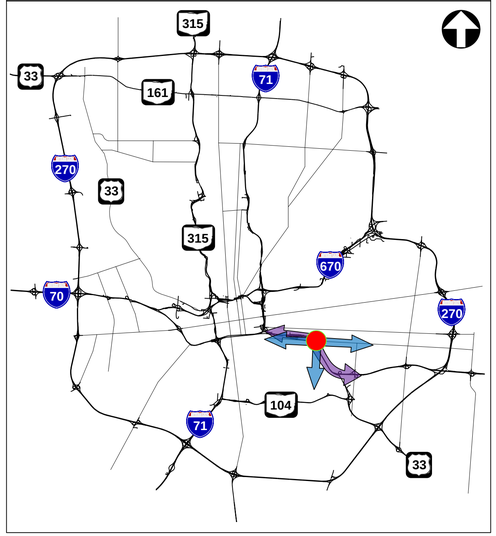
FIBER SPLICING (DARK/LIGHT – PROPOSED/EXISTING)

- 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



CAP AND COIL 150' OF 24SMF FIBER OPTIC CABLE FOR FUTURE ODOT CONNECTION

24SMF CABLE ODOT (Future)

144SMF CABLE EAST LIVINGSTON AVE TRUNK

TO:
INT# 2017: I-70 WB RAMPS AT LIVINGSTON AVE.
SEE SHEET 755

MATCHLINE C - SEE THIS SHEET

144SMF CABLE EAST I-70 BACKBONE (CTSS)

144SMF CABLE WEST I-70 BACKBONE (CTSS)

4 Cable Entries
288 Fusion Splices

PROPOSED 48" PULL BOX

8 Cable Entries
432 Fusion Splices
17 Coiled Buffer Tubes

1-6
7-12
1-6
7-12
1-6
7-12

ODOT FIBERS INSET DETAIL A
SEE SHEET 873

144SMF DROP CABLE EAST I-70 BACKBONE (CTSS)

144SMF DROP CABLE WEST I-70 BACKBONE (CTSS)

CLAMSHELL, 288 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE

MATCHLINE Z - SEE SHEET 870

144SMF CABLE WEST LIVINGSTON AVE TRUNK

TO:
INT# 2000: ALUM CREEK DR. AT LIVINGSTON AVE.
SEE SHEET 754

MATCHLINE D - SEE THIS SHEET

144SMF CABLE WEST I-70 BACKBONE (DoT)

144SMF CABLE EAST I-70 BACKBONE (DoT)

4 Cable Entries
288 Fusion Splices

144SMF CABLE SOUTH ALUM CREEK TRUNK

DOME, 800 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE

144SMF DROP CABLE SOUTH (CTSS TRUNK)

144SMF DROP CABLE (CTSS TRUNK)

144SMF DROP CABLE SOUTH (DoT TRUNK)

144SMF DROP CABLE (DoT TRUNK)

144SMF DROP CABLE WEST I-70 BACKBONE (DoT)

144SMF DROP CABLE EAST I-70 BACKBONE (DoT)

CLAMSHELL, 288 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE

TO:
INT# 2001: ALUM CREEK DR. AT I-70 EB RAMPS
SEE SHEET 823

MATCHLINE A - SEE SHEET 870

MATCHLINE B - SEE SHEET 871

MATCHLINE X - SEE SHEET 871

COMMUNICATION NODE 070103.1

REFER TO SHEET 560 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 612 FOR COMMUNICATIONS OVERVIEW

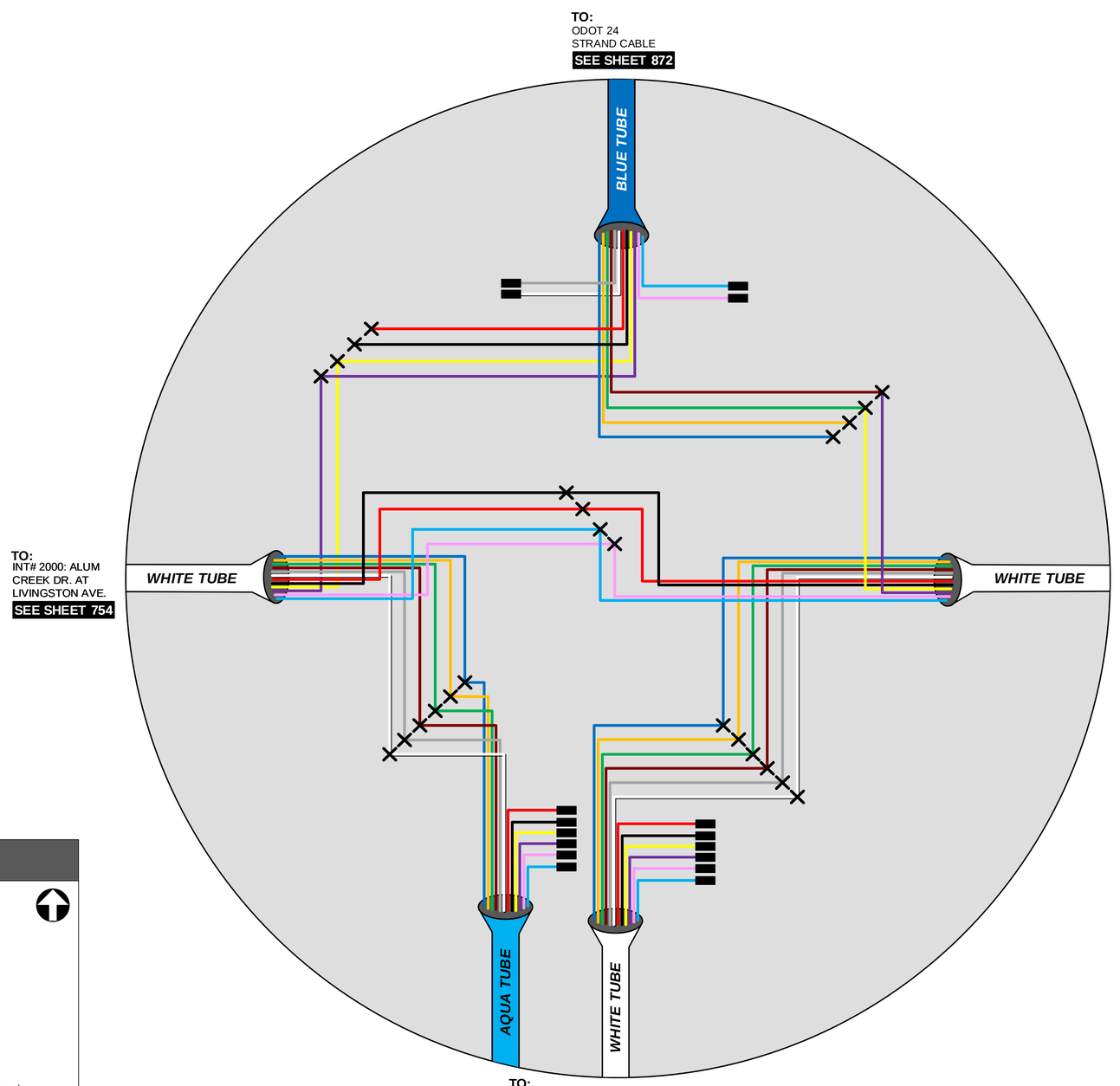
CIP: 540007 - 100005
PID NUMBER: 14522

PROPOSED COMMUNICATION NODE# 070103.1: IR-70 AT LIVINGSTON AVE.
FIBER OPTIC SPLICING DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

872
911

Phase C comm nodes.vsd - 070103.1-2 layout ~ last saved 11/28/2018 11:01:42 AM ~ printed: 11/28/2018 11:01:42 AM



INSET DETAIL A
SEE SHEET 872

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

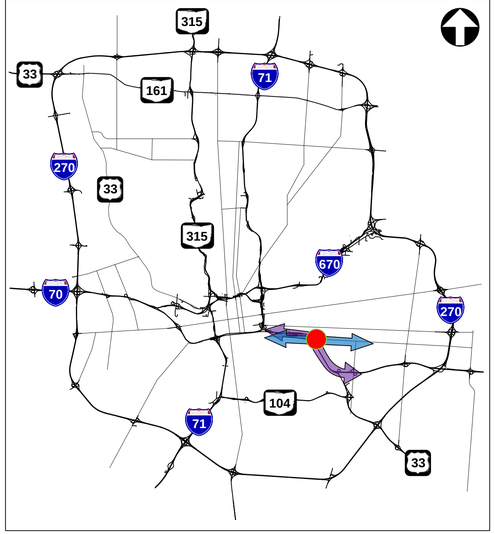
FIBER SPLICING (DARK/LIGHT – PROPOSED/EXISTING)

- 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 070103.1

REFER TO SHEET 560 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 612 FOR COMMUNICATIONS OVERVIEW

CIP: 540007 - 100005
PID NUMBER: 14522

PROPOSED COMMUNICATION NODE# 070103.1: IR-70 AT LIVINGSTON AVE.
FIBER OPTIC SPLICING DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

873
911

Phase C comm nodes.vsd - 070103.1-ODOT layout - last saved 11/28/2018 11:01:42 AM ~ printed: 11/28/2018 11:01:42 AM

COMMUNICATION NODE EQUIPMENT CABINET (#2)

LAYER 3 ETHERNET SWITCH

Ports: 1 2 LH 3 LH 4 LH 5 LH 6 LH 7 LH 8 LH 9 LH 10 11 12

SFP Modules: T/R

TO: CONTROL EQUIPMENT MONITOR

ETHERNET SWITCH PORT DESTINATION

PORT 2: PROPOSED COMMUNICATION NODE# 070107.6: HAMILTON RD. AT IR-70
SEE SHEET 876

PORT 3: PROPOSED COMMUNICATION NODE# 070107.6: HAMILTON RD. AT IR-70
SEE SHEET 876

PORT 4: PROPOSED COMMUNICATION NODE# 070103.1: IR-70 AT LIVINGSTON AVE.
SEE SHEET 870

PORT 5: PROPOSED COMMUNICATION NODE# 070103.1: IR-70 AT LIVINGSTON AVE.
SEE SHEET 870

PORT 6: INT# 2146: JAMES RD. AT LANGFIELD RD.
SEE SHEET 800

PORT 7: INT# 2145: JAMES RD. AT SCOTTWOOD RD.
SEE SHEET 801

PORT 8: INT# 2020: KENWICK RD. AT LIVINGSTON AVE.
SEE SHEET 759

PORT 9: INT# 2193: I-70 EB RAMPS AT JAMES RD.
SEE SHEET 799

EXISTING CCTV CABINET

EXISTING CCTV FIELD BOX
- VIDEO/PTZ IP DATA
- CCTV/HEATER POWER
- 10/100 Mbs
- ANALOG VIDEO

EXISTING CCTV

EXISTING COMPOSITE CCTV CABLE

24 STRAND LC PATCH PANEL

24SMF DROP CABLE[1]

24 STRAND LC PATCH PANEL

CTSS 4RU PATCH PANEL

CTSS 1RU PATCH PANEL

DoT 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

EAST: BLUE TUBE

WEST: ORANGE TUBE

144SMF DROP CABLE[2] (DoT TRUNK)

144SMF DROP CABLE[2] (CTSS TRUNK)

24SMF DROP CABLE[2] I-70 BACKBONE (CTSS)

144SMF DROP CABLE WEST I-70 BACKBONE (DoT)

144SMF DROP CABLE EAST I-70 BACKBONE (DoT)

MATCHLINE B - SEE SHEET 875

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

LEGEND

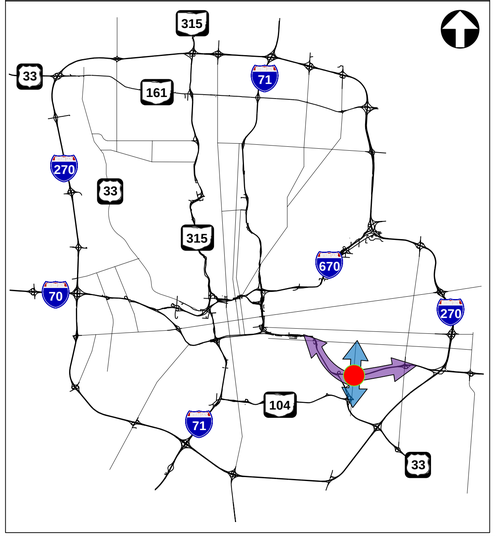
EQUIPMENT CABLE
- FIBER PATCH CABLES Tx/Tx
- CAT 5E CABLE
- FIBER PATCH CABLES Tx/Rx CROSSOVER
- EXISTING FIBER PATCH CABLES

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 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 070105.5

REFER TO SHEET 563 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 613 FOR COMMUNICATIONS OVERVIEW

CIP: 540007 - 100005
PID NUMBER: 14522

PROPOSED COMMUNICATION NODE# 070105.5: IR-70 AT JAMES RD
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

Phase C comm nodes.vsd - 070105.5 layout - last saved 11/28/2018 11:01:42 AM - printed: 11/28/2018 11:01:42 AM

PROPOSED 48" PULL BOX

6 Cable Entries
336 Fusion Splices
10 Buffer Tubes Passed Through Unspliced

288SMF CABLE WEST I-70 BACKBONE

288SMF CABLE EAST I-70 BACKBONE

TO:
PROPOSED COMMUNICATION NODE# 070103.1: IR-70 AT LIVINGSTON AVE.
SEE SHEET 872

TO:
PROPOSED COMMUNICATION NODE# 070107.6: HAMILTON RD. AT IR-70
SEE SHEET 877

24SMF CABLE I-70 BACKBONE (CTSS)
144SMF CABLE WEST I-70 BACKBONE (DoT)
144SMF CABLE EAST I-70 BACKBONE (DoT)

DOME, 800 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 THIS SHEET

LEGEND

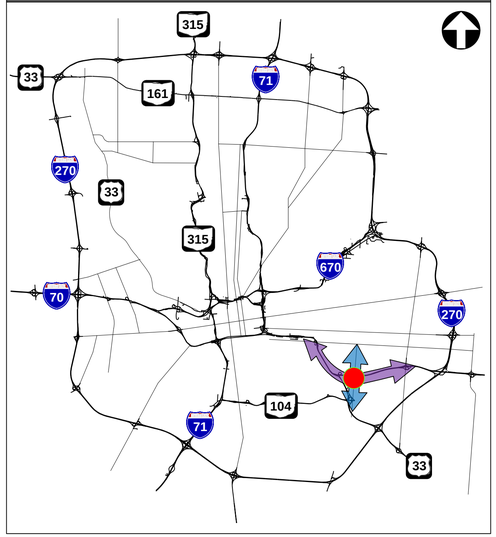
EQUIPMENT CABLE
- FIBER PATCH CABLES Tx/Tx
- CAT 5E CABLE
- FIBER PATCH CABLES Tx/Rx CROSSOVER
- EXISTING FIBER PATCH CABLES

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



144SMF CABLE NORTH JAMES RD TRUNK

TO:
INT# 2146: JAMES RD. AT LANGFIELD RD.
SEE SHEET 800

24SMF CABLE ODOT (Future)

CAP AND COIL 150' OF 24SMF FIBER OPTIC CABLE FOR FUTURE ODOT CONNECTION

PROPOSED 48" PULL BOX

5 Cable Entries
168 Fusion Splices
13 Coiled Buffer Tubes

1-6 7-12
1-6 7-12
1-6 7-12

CLAMSHELL, 288 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE

24SMF CABLE TO INTERSECTION 2193

144SMF DROP CABLE (DoT TRUNK)

144SMF DROP CABLE (CTSS TRUNK)

TO:
INT# 2193: I-70 EB RAMPS AT JAMES RD.
SEE SHEET 799

MATCHLINE A - SEE THIS SHEET

24SMF CABLE I-70 BACKBONE (CTSS)
144SMF CABLE WEST I-70 BACKBONE (DoT)
144SMF CABLE EAST I-70 BACKBONE (DoT)

6 Cable Entries
312 Fusion Splices

24SMF DROP CABLE I-70 BACKBONE (CTSS)
144SMF DROP CABLE WEST I-70 BACKBONE (DoT)
144SMF DROP CABLE EAST I-70 BACKBONE (DoT)

DOME, 800 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE

MATCHLINE B - SEE SHEET 874

COMMUNICATION NODE 070105.5

REFER TO SHEET 563 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 613 FOR COMMUNICATIONS OVERVIEW

CIP: 540007 - 100005
PID NUMBER: 14522

PROPOSED COMMUNICATION NODE# 070105.5: IR-70 AT JAMES RD
FIBER OPTIC SPLICING DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

875
911

Phase C comm nodes.vsd - 070105.5-2 layout - last saved 11/28/2018 11:01:42 AM - printed: 11/28/2018 11:01:42 AM

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 2 LH 3 LH 4 LH 5 LH 6 LH 7 LH 8 9 10 LH 11 12

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

24SMF DROP CABLE[1]

24 STRAND LC PATCH PANEL

MATCHLINE B - SEE SHEET 877

144SMF DROP CABLE[2] (DoT TRUNK)

144SMF DROP CABLE[2] (CTSS TRUNK)

24SMF DROP CABLE[2] I-70 BACKBONE (CTSS)

144SMF DROP CABLE WEST I-70 BACKBONE (DoT)

144SMF DROP CABLE EAST I-70 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

- 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

DoT 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
- 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

ETHERNET SWITCH PORT DESTINATION

PORT 2: EXISTING COMMUNICATION NODE# 270043.0: IR-270 AT IR-70
SEE SHEET 898

PORT 3: PROPOSED COMMUNICATION NODE# 070109.9: BRICE RD. AT IR-70
SEE SHEET 878

PORT 4: PROPOSED COMMUNICATION NODE# 070105.5: IR-70 AT JAMES RD
SEE SHEET 874

PORT 5: PROPOSED COMMUNICATION NODE# 070105.5: IR-70 AT JAMES RD
SEE SHEET 874

PORT 6: INT# 2028: ELAINE RD. AT LIVINGSTON AVE.
SEE SHEET 766

PORT 7: INT# 2029: HAMILTON RD. AT LIVINGSTON AVE.
SEE SHEET 767

PORT 10: INT# 2030: LIVINGSTON AVE. AT SHADY LANE RD.
SEE SHEET 768

PORT 11: INT# 2031: COUNTRY CLUB RD. AT LIVINGSTON AVE.
SEE SHEET 769

LEGEND

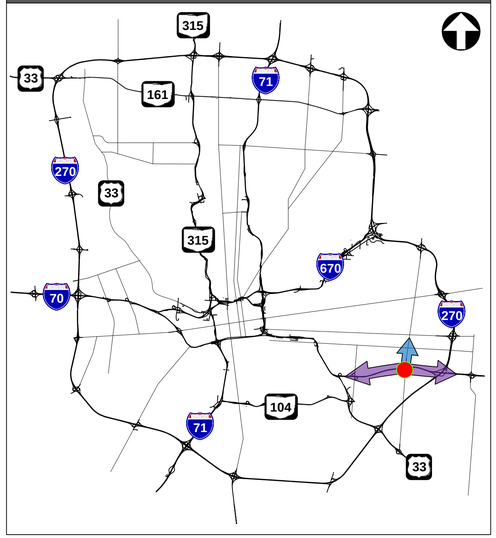
EQUIPMENT CABLE
- FIBER PATCH CABLES Tx/Tx
- CAT 5E CABLE
- FIBER PATCH CABLES Tx/Rx CROSSOVER
- EXISTING FIBER PATCH CABLES

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 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 070107.6

REFER TO SHEET 566 FOR CONSTRUCTION PLAN DETAILS

REFER TO SHEET 613 FOR COMMUNICATIONS OVERVIEW

CIP: 540007 - 100005
PID NUMBER: 14522

PROPOSED COMMUNICATION NODE# 070107.6: HAMILTON RD. AT IR-70
COMMUNICATIONS DIAGRAM

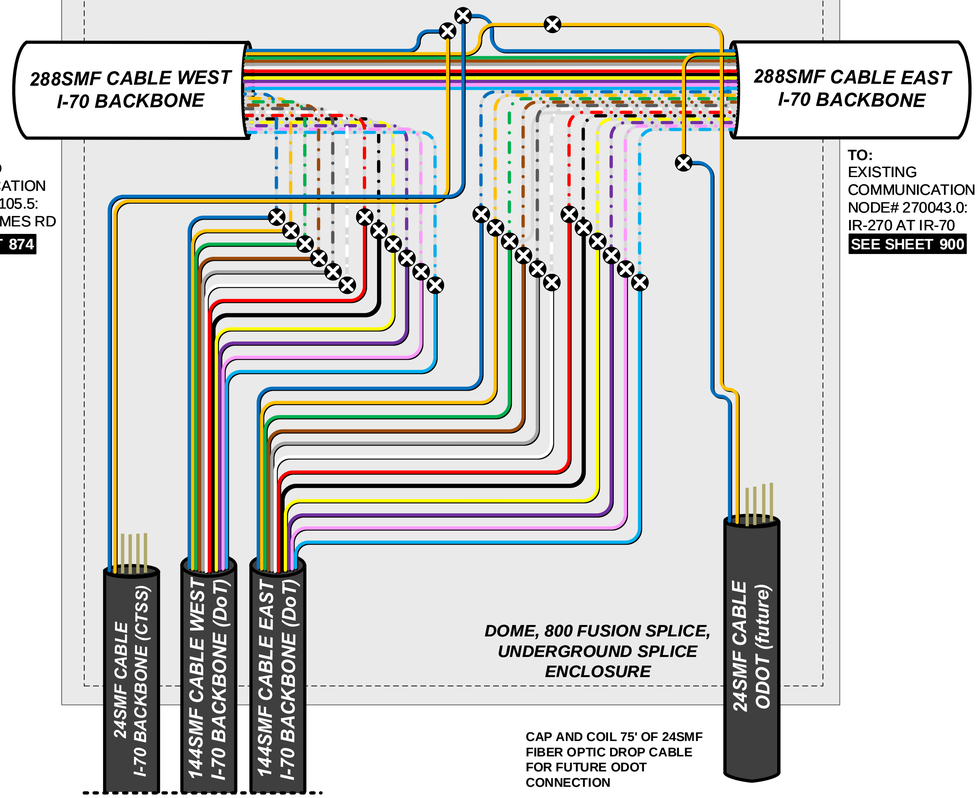
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

876
911

Phase C comm nodes.vsd - 070107.6 layout ~ last saved 11/28/2018 11:01:42 AM ~ printed: 11/28/2018 11:01:42 AM

PROPOSED 48" PULL BOX

6 Cable Entries
336 Fusion Splices
10 Buffer Tubes Passed Through Unspliced



TO: PROPOSED COMMUNICATION NODE# 070105.5: IR-70 AT JAMES RD
SEE SHEET 874

TO: EXISTING COMMUNICATION NODE# 270043.0: IR-270 AT IR-70
SEE SHEET 900

CAP AND COIL 75' OF 24SMF FIBER OPTIC DROP CABLE FOR FUTURE ODOT CONNECTION

MATCHLINE A - SEE THIS SHEET

TO: INT# 2029: HAMILTON RD. AT LIVINGSTON AVE.
SEE SHEET 767

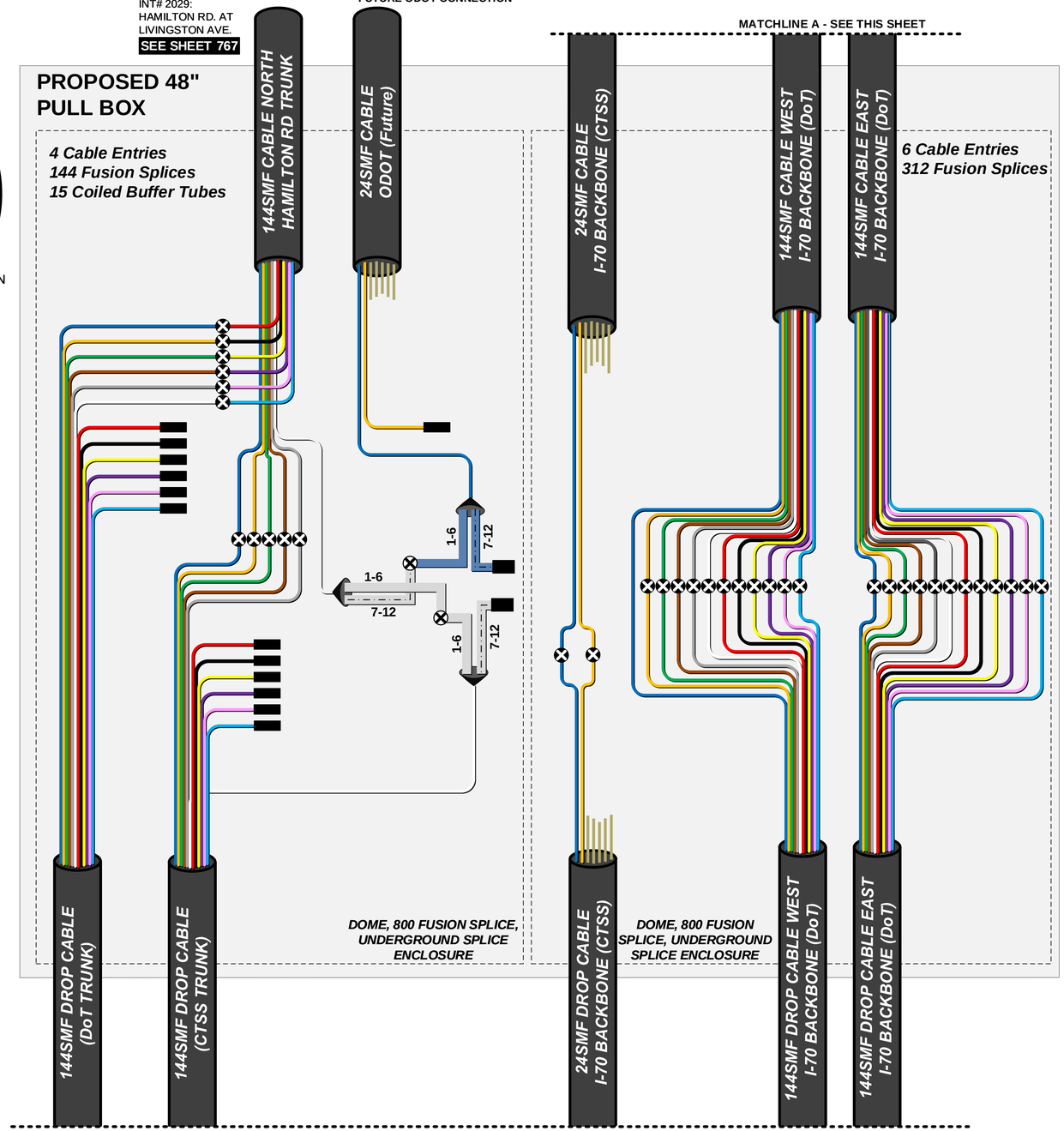
CAP AND COIL 150' OF 24SMF FIBER OPTIC CABLE FOR FUTURE ODOT CONNECTION

MATCHLINE A - SEE THIS SHEET

PROPOSED 48" PULL BOX

4 Cable Entries
144 Fusion Splices
15 Coiled Buffer Tubes

6 Cable Entries
312 Fusion Splices



MATCHLINE B - SEE SHEET 876

LEGEND

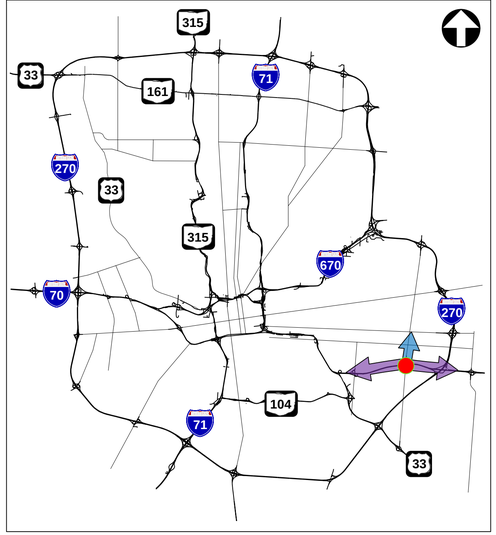
EQUIPMENT CABLE
- FIBER PATCH CABLES Tx/Tx
- CAT 5E CABLE
- FIBER PATCH CABLES Tx/Rx CROSSOVER
- EXISTING FIBER PATCH CABLES

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 070107.6

REFER TO SHEET 566 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 613 FOR COMMUNICATIONS OVERVIEW

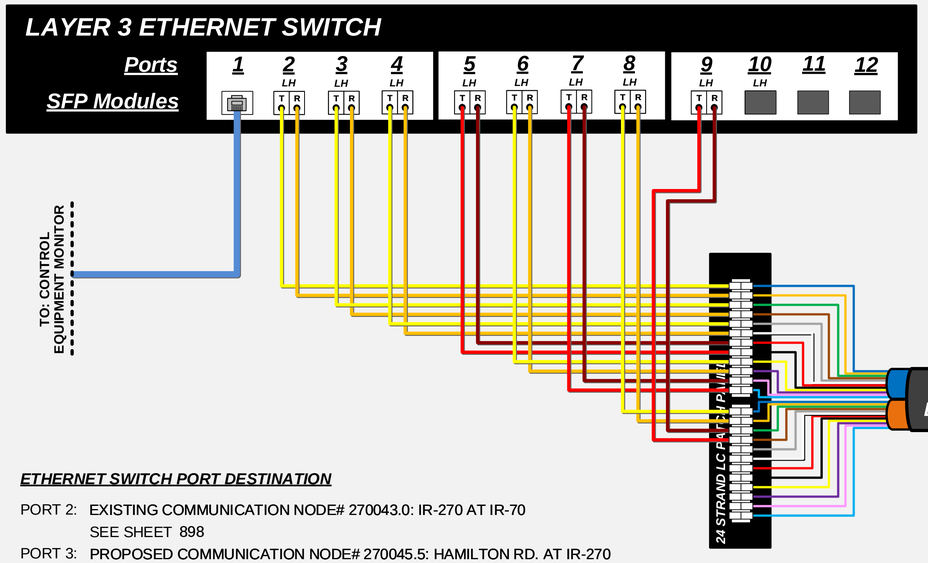
CIP: 540007 - 100005
PID NUMBER: 14522

PROPOSED COMMUNICATION NODE# 070107.6: HAMILTON RD. AT IR-70
FIBER OPTIC SPLICING DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

Phase C comm nodes.vsd - 070107.6-2 layout ~ last saved 11/28/2018 11:01:42 AM ~ printed: 11/28/2018 11:01:42 AM

COMMUNICATION NODE EQUIPMENT CABINET (#2)



ETHERNET SWITCH PORT DESTINATION

PORT 2: EXISTING COMMUNICATION NODE# 270043.0: IR-270 AT IR-70
SEE SHEET 898

PORT 3: PROPOSED COMMUNICATION NODE# 270045.5: HAMILTON RD. AT IR-270
SEE SHEET 890

PORT 4: PROPOSED COMMUNICATION NODE# 070107.6: HAMILTON RD. AT IR-70
SEE SHEET 876

PORT 5: INT# 2171: BRICE RD. AT I-70 WB RAMPS
SEE SHEET 835

PORT 6: INT# 2201: BRICE RD. AT HOME DEPOT
SEE SHEET 836

PORT 7: INT# 2210: BRICE RD. AT I-70 EB RAMPS
SEE SHEET 834

PORT 8: INT# 2172: BRICE RD. AT SCARBOROUGH BLVD. / TUSSING RD.
SEE SHEET 832

PORT 9: INT# 2202: BRICE RD. AT CHATTERTON RD./ REFUGEE RD.
SEE SHEET 830

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

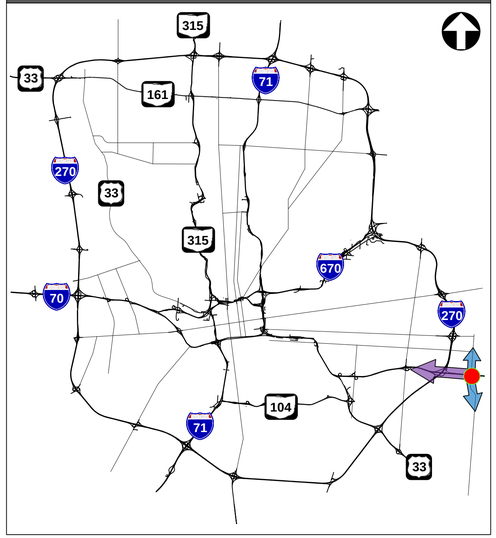
FIBER SPLICING (DARK/LIGHT – PROPOSED/EXISTING)

- FUSION SPLICE – 12 FIBER BUFFER TUBE
- FUSION SPLICE – PARTIAL BUFFER TUBE
- FUSION SPLICE – SINGLE FIBER
- COILED FIBER OR BUFFER TUBE

EQUIPMENT AND TERMINATION CABINET

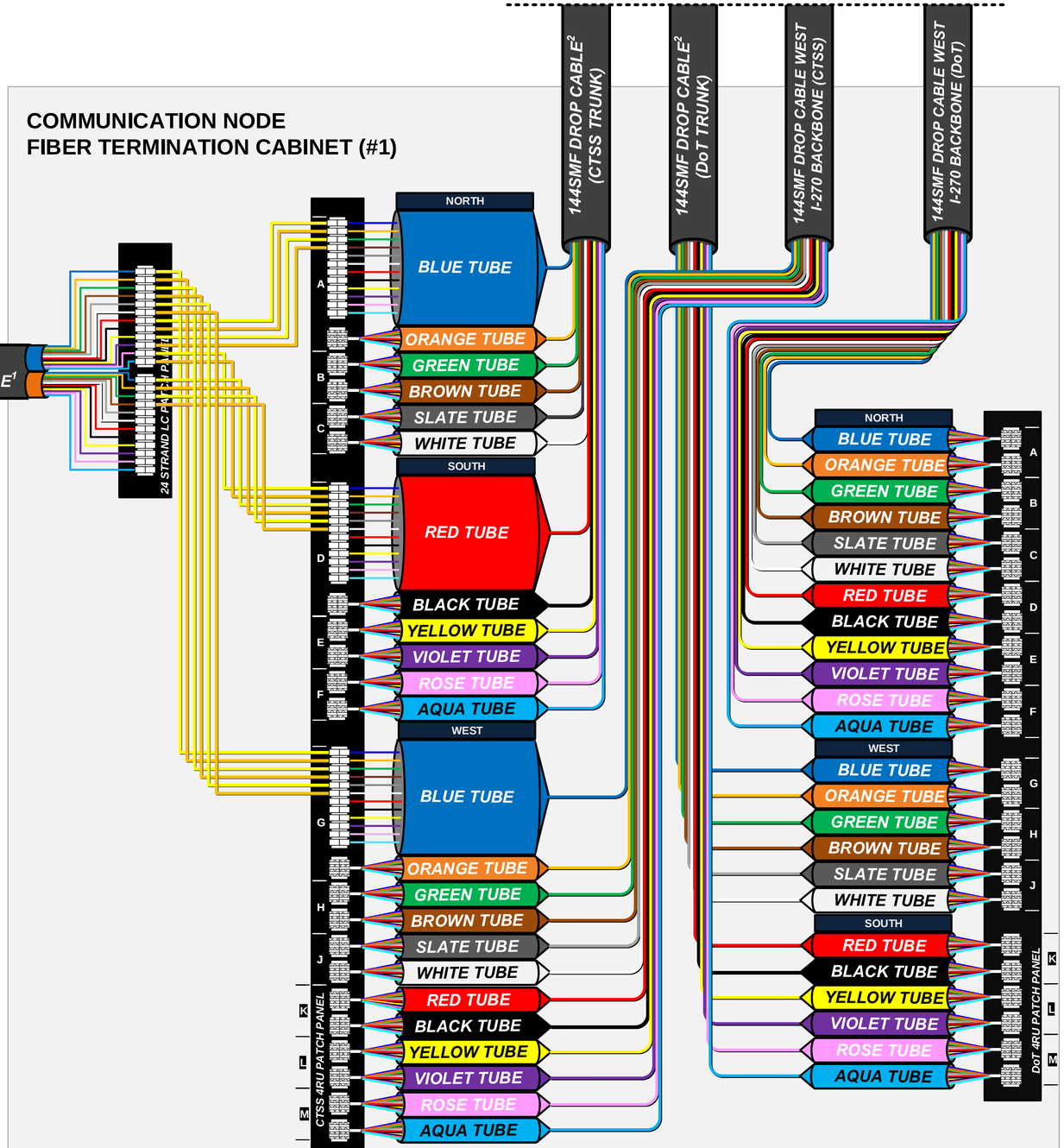
- LH/ZX GBIC OPTICAL TRANSCEIVER (LH - SHORT HAUL, ZX – LONG HAUL)
- 8P8C CONNECTOR
- EMPTY SFP MODULE BAY
- LC TERMINATION – SINGLE FIBER
- LC TERMINATION – 12 FIBER BUFFER TUBE
- WIRELESS ETHERNET RADIO

KEY PLAN



MATCHLINE B - SEE SHEET 879

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 070109.9

REFER TO SHEET 585 FOR CONSTRUCTION PLAN DETAILS

REFER TO SHEET 616 FOR COMMUNICATIONS OVERVIEW

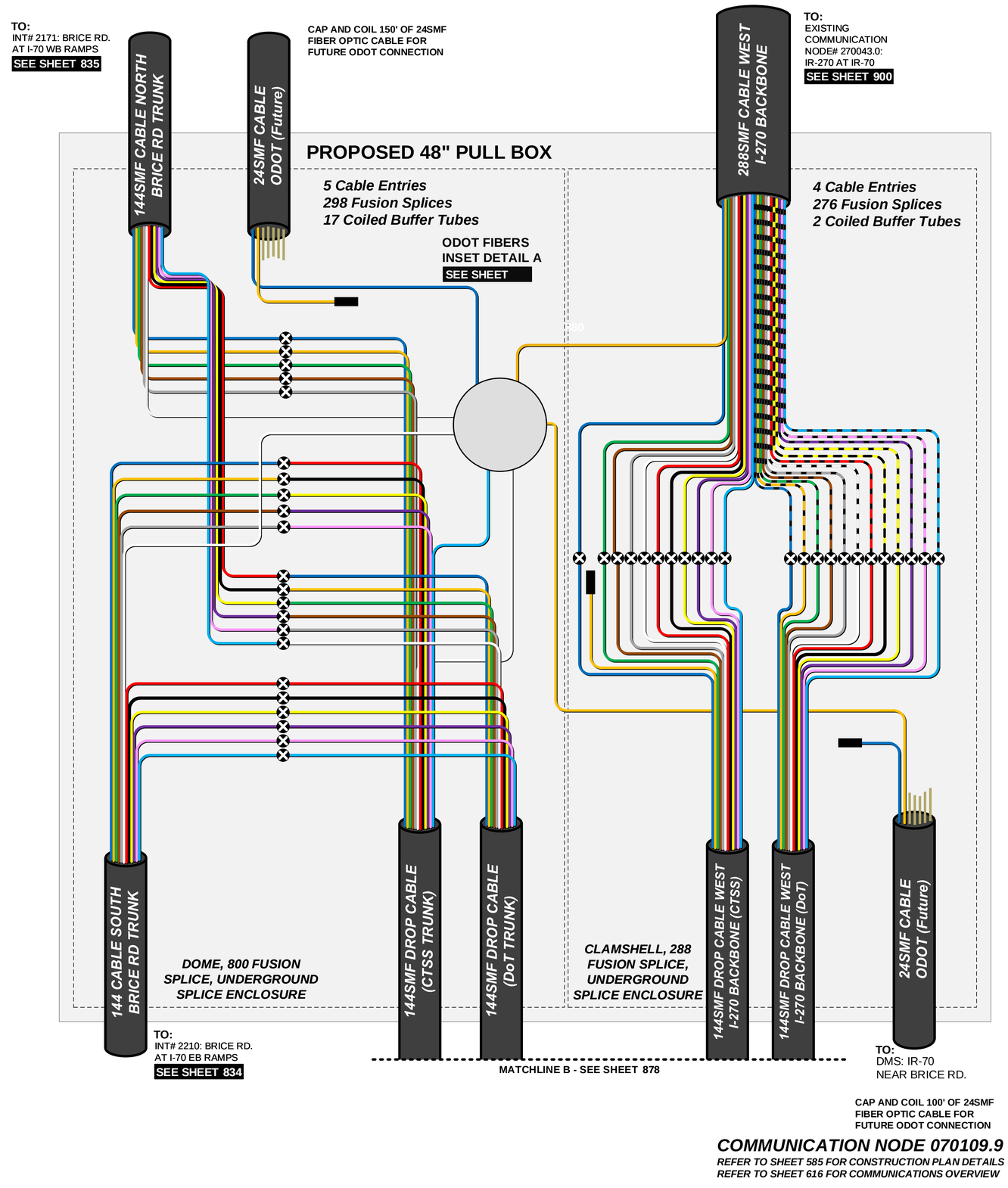
CIP: 540007 - 100005
PID NUMBER: 14522

PROPOSED COMMUNICATION NODE# 070109.9: BRICE RD. AT IR-70
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

878
911

Phase C comm nodes.vsd - 070109.9 layout ~ last saved 11/28/2018 11:01:42 AM ~ printed: 11/28/2018 11:01:42 AM



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

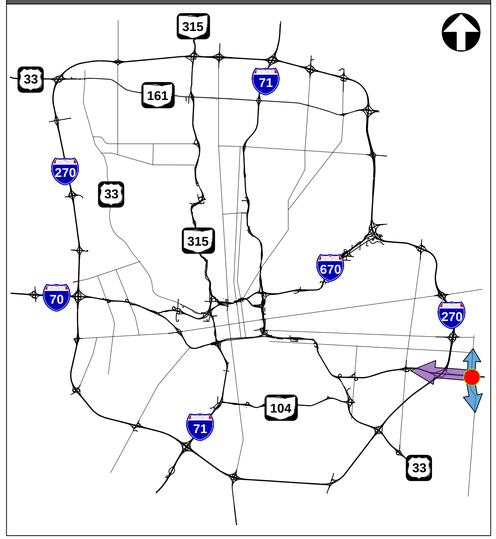
FIBER SPLICING (DARK/LIGHT – PROPOSED/EXISTING)

- 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 070109.9

REFER TO SHEET 585 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 616 FOR COMMUNICATIONS OVERVIEW

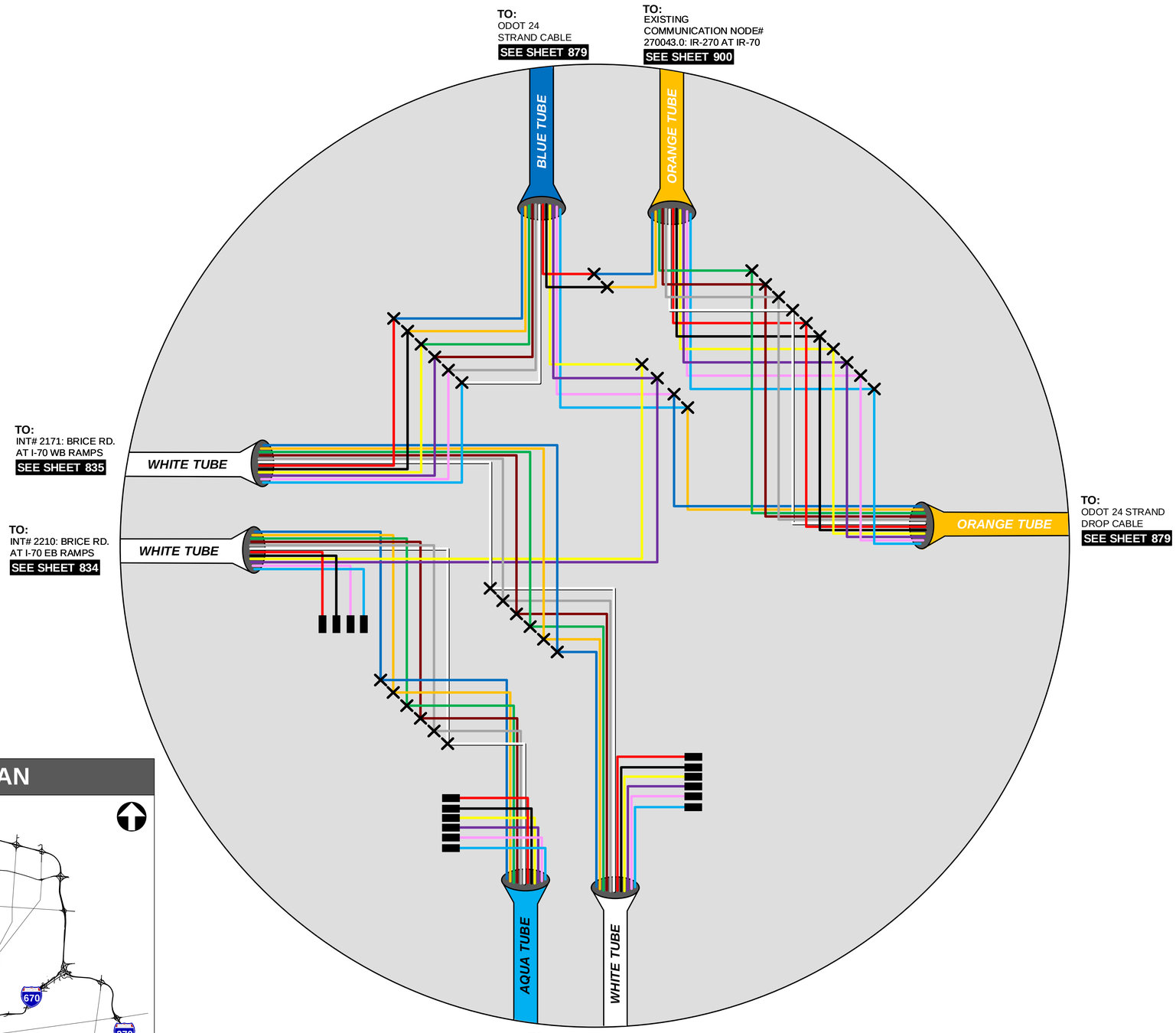
CIP: 540007 - 100005
PID NUMBER: 14522

PROPOSED COMMUNICATION NODE# 070109.9: BRICE RD. AT IR-70
FIBER OPTIC SPLICING DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

879
911

Phase C comm nodes.vsd - 070109.9-2 layout - last saved 11/28/2018 11:01:42 AM - printed: 11/28/2018 11:01:42 AM



INSET DETAIL A
SEE SHEET 879

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

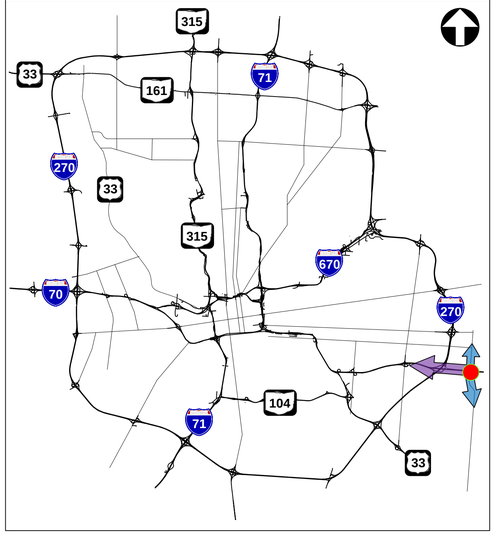
FIBER SPLICING (DARK/LIGHT – PROPOSED/EXISTING)

- 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 070109.9

REFER TO SHEET 585 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 616 FOR COMMUNICATIONS OVERVIEW

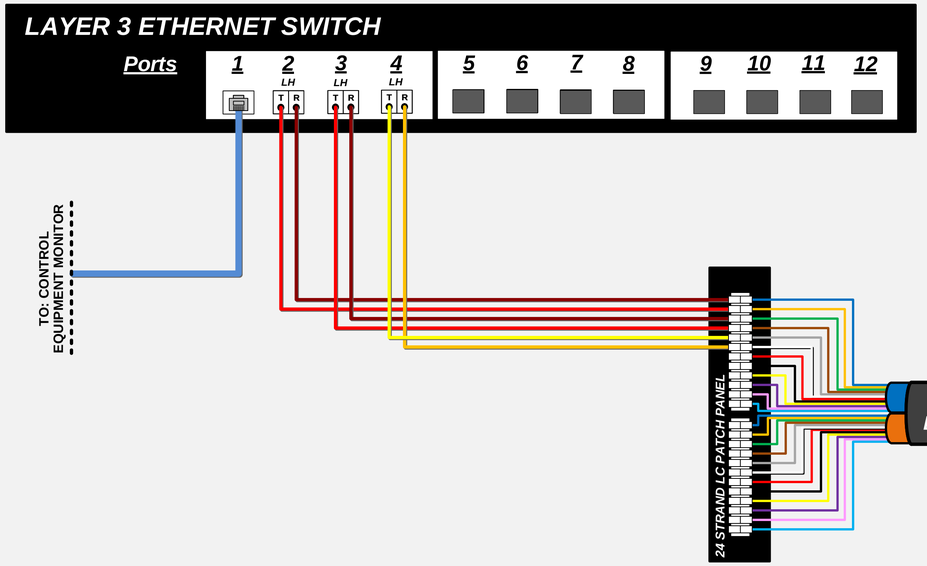
CIP: 540007 - 100005
PID NUMBER: 14522

PROPOSED COMMUNICATION NODE# 070109.9: BRICE RD. AT IR-70
FIBER OPTIC SPLICING DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

Phase C comm nodes.vsd - 070109.9-ODOT layout ~ last saved 11/28/2018 11:01:42 AM ~ printed: 11/28/2018 11:01:42 AM

COMMUNICATION NODE EQUIPMENT CABINET (#2)



24SMF DROP CABLE[1]

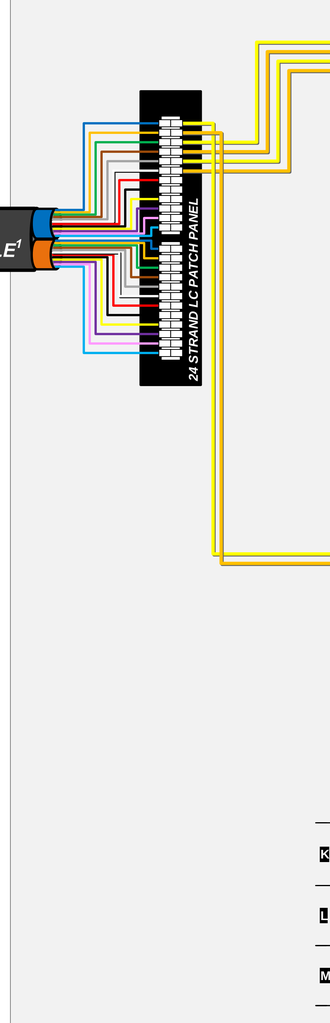
ETHERNET SWITCH PORT DESTINATION

PORT 2: EXISTING COMMUNICATION NODE# 270004.5: GEORGESVILLE RD. AT IR-270
SEE SHEET 883

PORT 3: INT# 1090: ALKIRE RD. AT HARRISBURG PIKE
SEE SHEET 677

PORT 4: INT# 1093: BRIGGS RD. / OCTOBER RIDGE DR. AT HARRISBURG PIKE
SEE SHEET 680

COMMUNICATION NODE FIBER TERMINATION CABINET (#1)



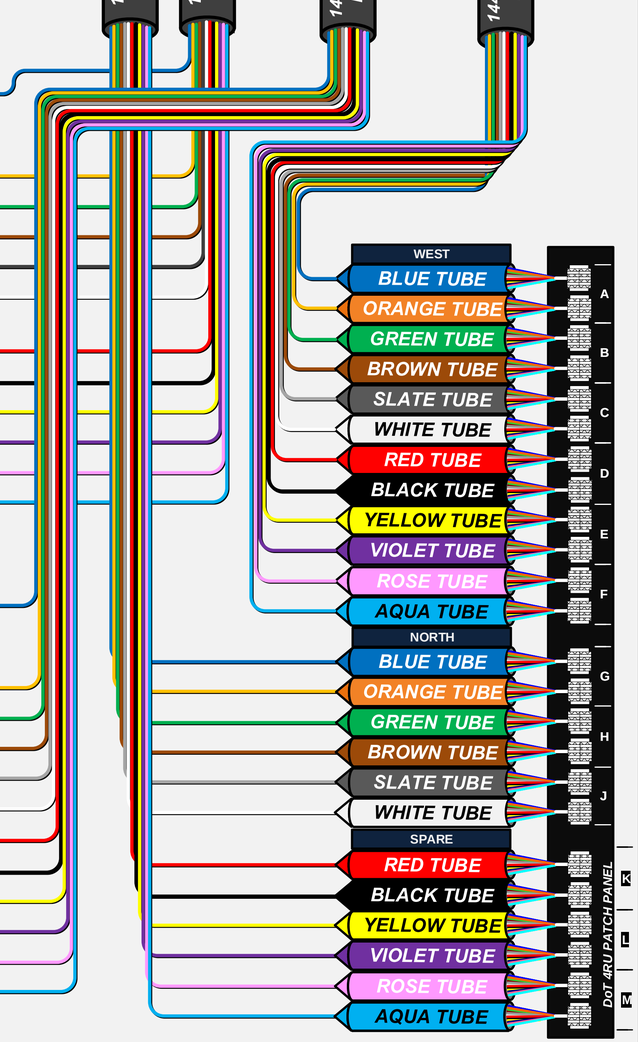
MATCHLINE B - SEE SHEET 882

144SMF DROP CABLE[2] (DoT TRUNK)

144SMF DROP CABLE[2] (CTSS TRUNK)

144SMF DROP CABLE WEST I-270 BACKBONE (CTSS)

144SMF DROP CABLE WEST I-270 BACKBONE (DoT)



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

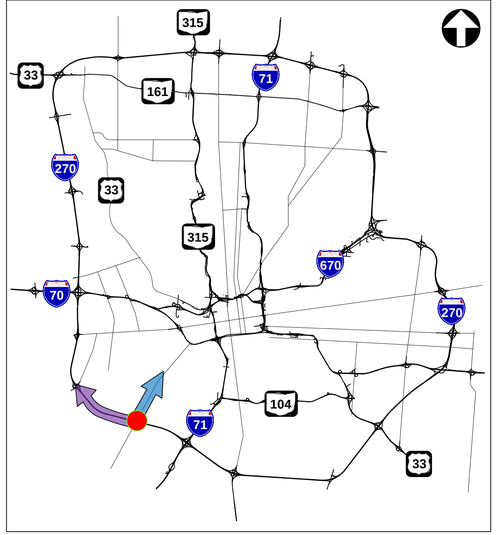
FIBER SPLICING (DARK/LIGHT – PROPOSED/EXISTING)

- 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.

[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 270002.1

REFER TO SHEET 531 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 604 FOR COMMUNICATIONS OVERVIEW

CIP: 540007 - 100005
PID NUMBER: 14522

PROPOSED COMMUNICATION NODE# 270002.1: HARRISBURG PKE. AT IR-270
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

Phase C comm nodes.vsd - 270002.1 layout - last saved 11/28/2018 11:01:42 AM - printed: 11/28/2018 11:01:42 AM

PROPOSED 32" 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 I-270 BACKBONE

TO:
EXISTING COMMUNICATION NODE# 270004.5: GEORGESVILLE RD. AT IR-270
SEE SHEET 885

CLAMSHELL, 288 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE

144SMF CABLE WEST I-270 BACKBONE (CTSS)

144SMF CABLE WEST I-270 BACKBONE (DoT)

MATCHLINE A - SEE THIS SHEET

TO:
INT# 1090: ALKIRE RD. AT HARRISBURG PIKE
SEE SHEET 677

144SMF CABLE NORTH HARRISBURG TRUNK

MATCHLINE A - SEE THIS SHEET

PROPOSED 48" PULL BOX

DOME, 800 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE

144SMF CABLE WEST I-270 BACKBONE (CTSS)

144SMF CABLE WEST I-270 BACKBONE (DoT)

1-6 7-12

1-6 7-12

1-6 7-12

24SMF CABLE ODOT (future)

144SMF DROP CABLE (Dot Trunk)

144SMF DROP CABLE (CTSS Trunk)

144SMF DROP CABLE WEST I-270 BACKBONE (CTSS)

144SMF DROP CABLE WEST I-270 BACKBONE (DoT)

8 Cable Entries
432 Fusion Splices
15 Coiled Buffer Tubes

CAP AND COIL 150' OF 24SMF FIBER OPTIC CABLE FOR FUTURE ODOT CONNECTION

MATCHLINE B - SEE SHEET **881**

LEGEND

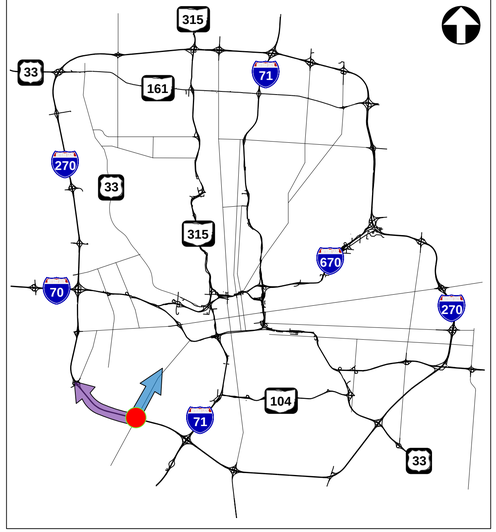
EQUIPMENT CABLE
- FIBER PATCH CABLES Tx/Tx
- CAT 5E CABLE
- FIBER PATCH CABLES Tx/Rx CROSSOVER
- EXISTING FIBER PATCH CABLES

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



CIP: 540007 - 100005
PID NUMBER: 14522

PROPOSED COMMUNICATION NODE# 270002.1: HARRISBURG PKE. AT IR-270
FIBER OPTIC SPLICING DIAGRAM

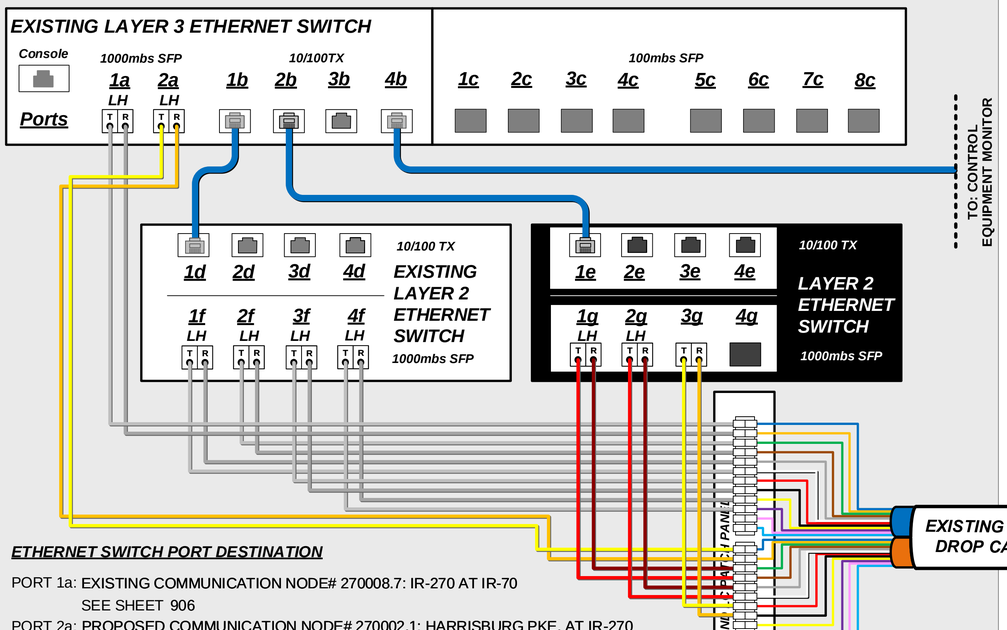
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

COMMUNICATION NODE 270002.1
REFER TO SHEET 531 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 604 FOR COMMUNICATIONS OVERVIEW

882
911

Phase C comm nodes.vsd - 270002.1-2 layout ~ last saved 11/28/2018 11:01:42 AM ~ printed: 11/28/2018 11:01:42 AM

COMMUNICATION NODE EQUIPMENT CABINET (#2)



ETHERNET SWITCH PORT DESTINATION

PORT 1a: EXISTING COMMUNICATION NODE# 270008.7: IR-270 AT IR-70
SEE SHEET 906

PORT 2a: PROPOSED COMMUNICATION NODE# 270002.1: HARRISBURG PKE. AT IR-270
SEE SHEET 881

PORT 1f: INT# 1101: GEORGESVILLE RD. AT PARKWICK DR.

PORT 2f: INT# 1103: GEORGESVILLE RD. AT HALL RD.

PORT 3f: INT# 1100: GEORGESVILLE RD. AT I-270 EB RAMPS

PORT 4f: INT# 1099: GEORGESVILLE RD. AT I-270 NB RAMPS

PORT 1g: INT# 1110: SULLIVANT AVE. AT WEDGEWOOD DR.
SEE SHEET 699

PORT 2g: INT# 1032: HOLLY HILL DR. AT SULLIVANT AVE.
SEE SHEET 698

PORT 3g: PROPOSED COMMUNICATION NODE# 270002.1: HARRISBURG PKE. AT IR-270
SEE SHEET 881

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

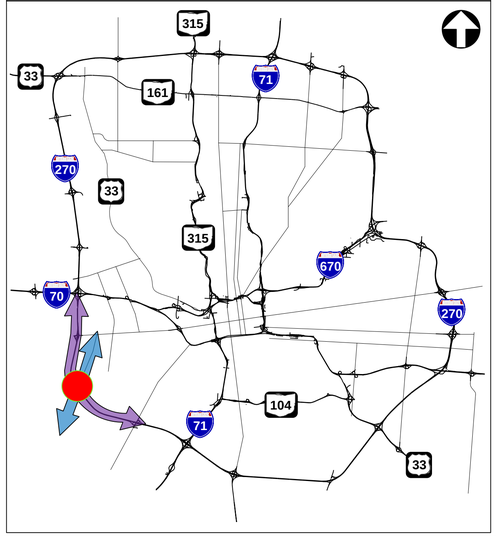
FIBER SPLICING (DARK/LIGHT – PROPOSED/EXISTING)

- FUSION SPLICE – 12 FIBER BUFFER TUBE
- FUSION SPLICE – PARTIAL BUFFER TUBE
- FUSION SPLICE – SINGLE FIBER
- COILED FIBER OR BUFFER TUBE

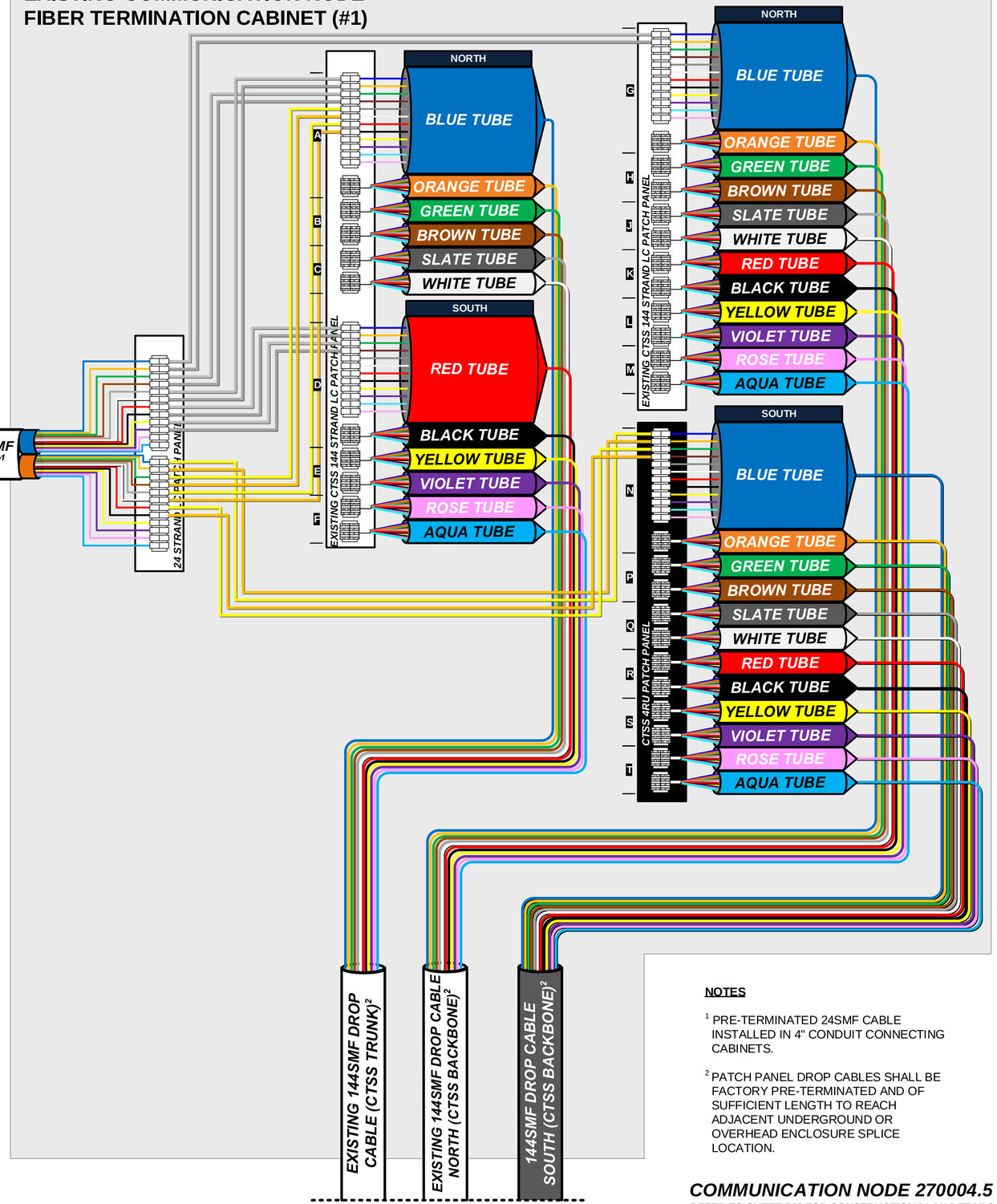
EQUIPMENT AND TERMINATION CABINET

- 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



EXISTING COMMUNICATION NODE FIBER TERMINATION CABINET (#1)



MATCHLINE A - SEE SHEET 885

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 270004.5

REFER TO SHEET 546 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 602 FOR COMMUNICATIONS OVERVIEW

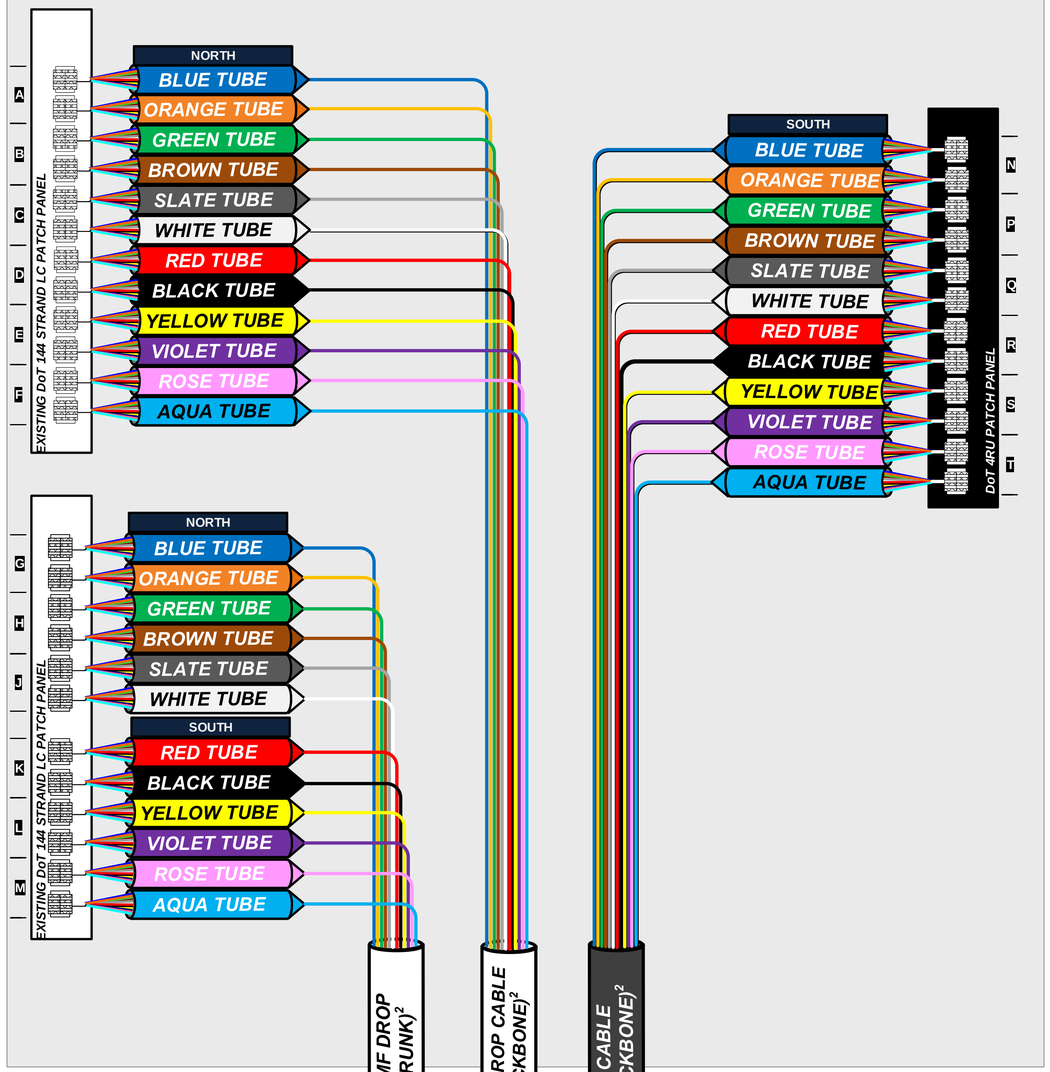
CIP: 540007 - 100005
PID NUMBER: 14522

EXISTING COMMUNICATION NODE# 270004.5: GEORGESVILLE RD. AT IR-270
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

Phase C comm nodes.vsd - 270004.5 layout ~ last saved 11/28/2018 11:01:42 AM ~ printed: 11/28/2018 11:01:42 AM

COMMUNICATION NODE EQUIPMENT 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

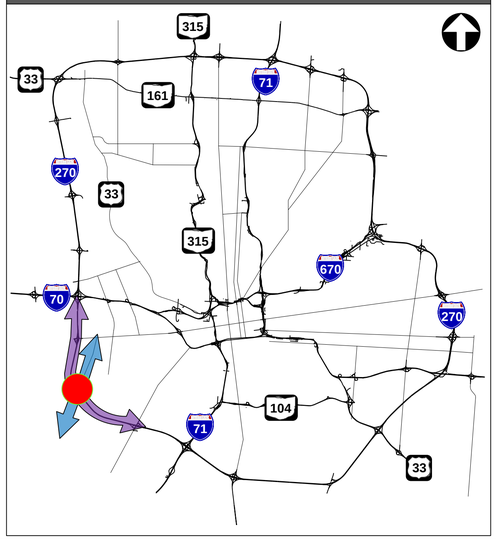
FIBER SPLICING (DARK/LIGHT – PROPOSED/EXISTING)

- 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

[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 270004.5

REFER TO SHEET 546 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 602 FOR COMMUNICATIONS OVERVIEW

CIP: 540007 - 100005
PID NUMBER: 14522

EXISTING COMMUNICATION NODE# 270004.5: GEORGESVILLE RD. AT IR-270
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

Phase C comm nodes.vsd - 270004.5 (DoT) layout ~ last saved 11/28/2018 11:01:42 AM ~ printed: 11/28/2018 11:01:42 AM

EXISTING 150' OF 24SMF FIBER OPTIC CABLE SLACK FOR ODOT CONNECTION

EXISTING 24SMF CABLE ODOT

MATCHLINE A - SEE SHEET 883

EXISTING 144SMF DROP CABLE (CTSS TRUNK)

EXISTING 144SMF DROP CABLE NORTH (CTSS BACKBONE)

144SMF DROP CABLE SOUTH (CTSS BACKBONE)

EXISTING 144SMF DROP CABLE (DoT TRUNK)

MATCHLINE B - SEE SHEET 884

EXISTING 144SMF DROP CABLE NORTH (DoT BACKBONE)

144SMF DROP CABLE SOUTH (DoT BACKBONE)*

CAP AND COIL 150' OF 24SMF FIBER OPTIC CABLE FOR FUTURE ODOT CONNECTION

24SMF CABLE ODOT (future)

*DoT 288 FIBER SPLICING WORK TO BE PERFORMED BY ONGOING DoT PROJECT

PROPOSED 48" PULL BOX

TO:
INT# 1099: GEORGESVILLE RD AT IR-270 NB RAMPS.

EXISTING 24SMF DROP CABLE

TO:
INT# 1101: GEORGESVILLE RD AT PARKWICK DR.

EXISTING 144SMF CABLE NORTH GEORGESVILLE TRUNK

TO:
INT# 1100: GEORGESVILLE RD AT IR-270 EB RAMPS.

EXISTING 144SMF CABLE SOUTH GEORGESVILLE TRUNK

EXISTING SPLICE ENCLOSURE

EXISTING SPLICE ENCLOSURE

CLAMSHELL, 288 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE

4 Cable Entries
288 Fusion Splices
2 Coiled Buffer Tubes

EXISTING 24SMF CABLE ODOT

EXISTING 288SMF CABLE NORTH I-270 BACKBONE

288SMF CABLE SOUTH I-270 BACKBONE

TO:
EXISTING COMMUNICATION NODE# 270008.7: IR-270 AT IR-70

TO:
PROPOSED COMMUNICATION NODE# 270002.1: HARRISBURG PKE. AT IR-270
SEE SHEET 882

EXISTING 150' OF 24SMF FIBER OPTIC CABLE SLACK FOR ODOT CONNECTION

LEGEND

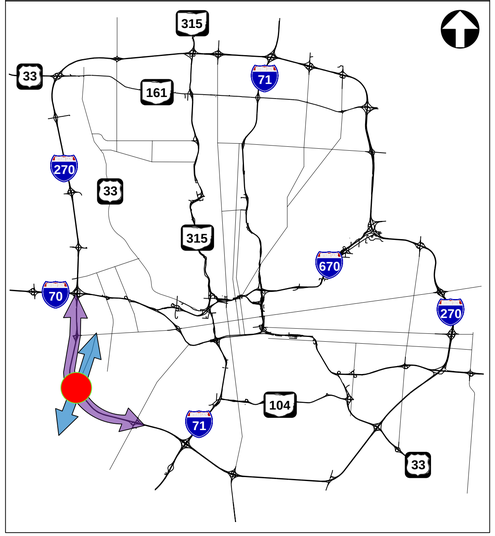
EQUIPMENT CABLE
- FIBER PATCH CABLES Tx/Tx
- CAT 5E CABLE
- FIBER PATCH CABLES Tx/Rx CROSSOVER
- EXISTING FIBER PATCH CABLES

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



COMMUNICATION NODE 270004.5
REFER TO SHEET 546 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 602 FOR COMMUNICATIONS OVERVIEW

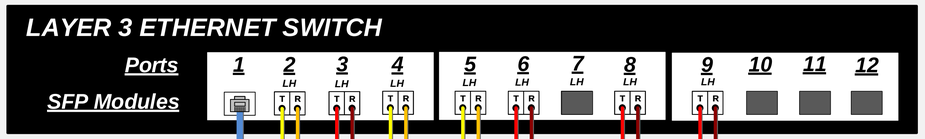
CIP: 540007 - 100005
PID NUMBER: 14522

EXISTING COMMUNICATION NODE# 270004.5: GEORGESVILLE RD. AT IR-270
FIBER OPTIC SPLICING DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

Phase C comm nodes.vsd - 270004.5-2 layout ~ last saved 11/28/2018 11:01:42 AM ~ printed: 11/28/2018 11:01:42 AM

COMMUNICATION NODE EQUIPMENT CABINET (#2)



TO: CONTROL EQUIPMENT MONITOR

24 STRAND LC PATCH PANEL

24SMF DROP CABLE[1]

24 STRAND LC PATCH PANEL

ETHERNET SWITCH PORT DESTINATION

PORT 2: EXISTING COMMUNICATION NODE# 270010.5: IR-270 AT ROBERTS RD.
SEE SHEET 907

PORT 3: EXISTING COMMUNICATION NODE# 270008.7: IR-270 AT IR-70
SEE SHEET 906

PORT 4: PROPOSED COMMUNICATION NODE# 070094.1: IR-70 AT WILSON RD.
SEE SHEET 865

PORT 5: INT# SIG4165: HAGUE AVE. AT TRABUE RD.
SEE SHEET 638

PORT 6: INT# 4236: TRABUE RD. AT WILSON RD.
SEE SHEET 631

PORT 8: INT# SIG4895: TRABUE RD. AT TRABUE WOODS BLVD. / WESTBELT DR.
SEE SHEET 630

PORT 9: INT# SIG4895: TRABUE RD. AT TRABUE WOODS BLVD. / WESTBELT DR.
SEE SHEET 630

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

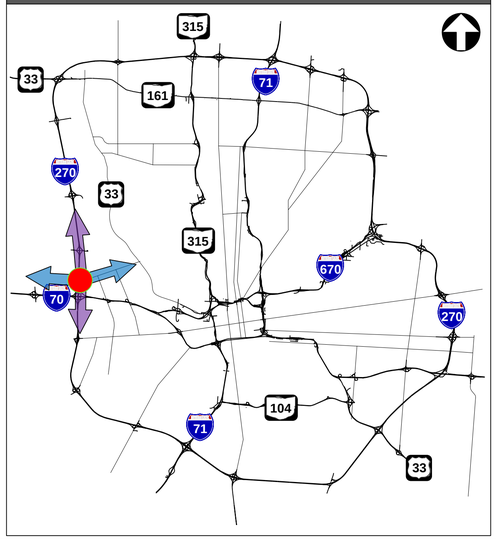
FIBER SPLICING (DARK/LIGHT – PROPOSED/EXISTING)

- 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 FIBER TERMINATION CABINET (#1)

MATCHLINE B - SEE SHEET 887

144SMF DROP CABLE[2] (DoT TRUNK)

144SMF DROP CABLE[2] (CTSS TRUNK)

24SMF DROP CABLE I-270 BACKBONE (CTSS)

144SMF DROP CABLE NORTH I-270 BACKBONE (DoT)

144SMF DROP CABLESOUTH 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

DoT 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

DoT 4RU PATCH PANEL

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

CTSS 1RU PATCH PANEL

NORTH
BLUE TUBE

SOUTH
ORANGE 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 270009.3

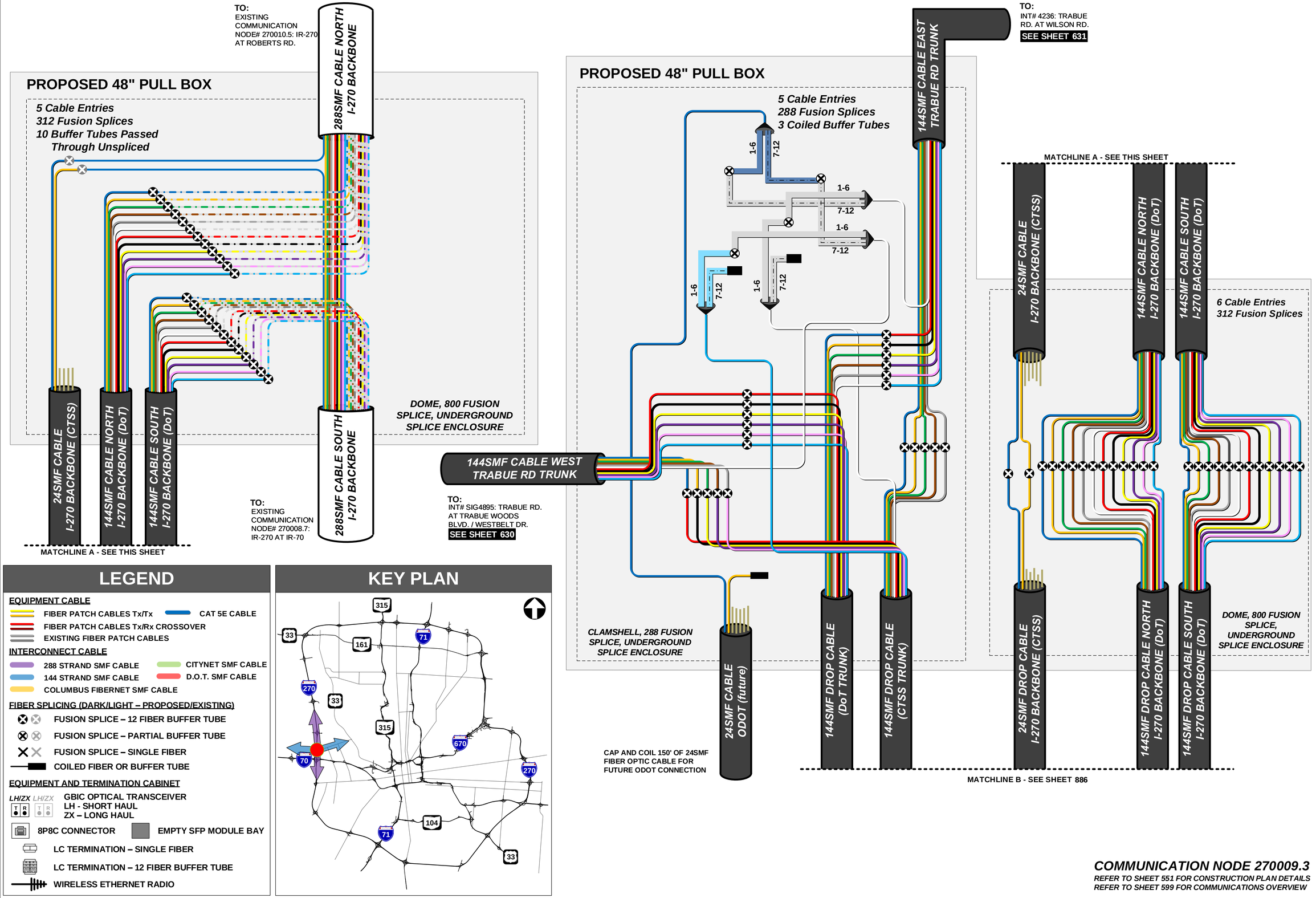
REFER TO SHEET 551 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 599 FOR COMMUNICATIONS OVERVIEW

CIP: 540007 - 100005
PID NUMBER: 14522

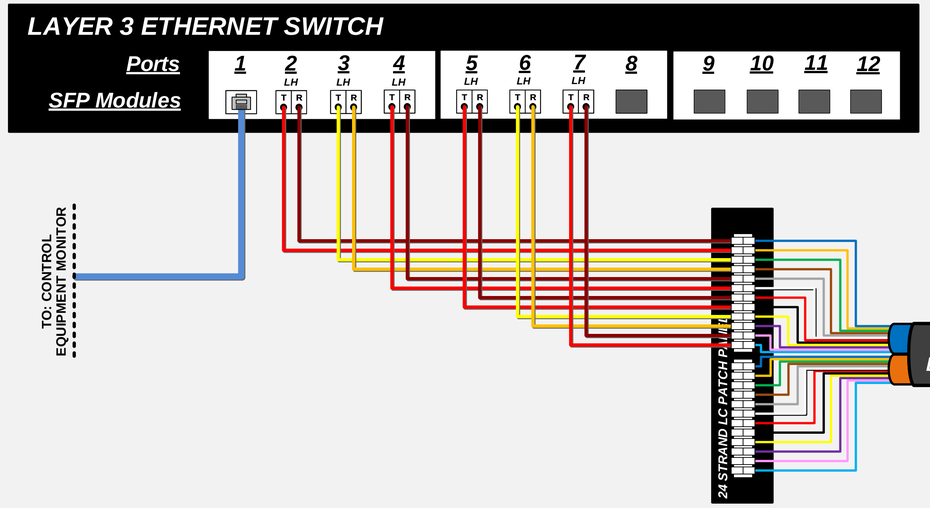
PROPOSED COMMUNICATION NODE# 270009.3: IR-270 AT TRABUE RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

Phase C comm nodes.vsd - 270009.3 layout ~ last saved 11/28/2018 11:01:42 AM ~ printed: 11/28/2018 11:01:42 AM


TO:
EXISTING COMMUNICATION NODE# 270010.5: IR-270 AT ROBERTS RD.
288SMF CABLE NORTH I-270 BACKBONE
PROPOSED 48" PULL BOX
5 Cable Entries
312 Fusion Splices
10 Buffer Tubes Passed Through Unspliced
DOME, 800 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE
288SMF CABLE SOUTH I-270 BACKBONE
24SMF CABLE I-270 BACKBONE (CTSS)
144SMF CABLE NORTH I-270 BACKBONE (DoT)
144SMF CABLE SOUTH I-270 BACKBONE (DoT)
MATCHLINE A - SEE THIS SHEET
TO:
EXISTING COMMUNICATION NODE# 270008.7: IR-270 AT IR-70
144SMF CABLE WEST TRABUE RD TRUNK
TO:
INT# SIG4895: TRABUE RD. AT TRABUE WOODS BLVD. / WESTBELT DR.
SEE SHEET 630
TO:
INT# 4236: TRABUE RD. AT WILSON RD.
SEE SHEET 631
144SMF CABLE EAST TRABUE RD TRUNK
PROPOSED 48" PULL BOX
5 Cable Entries
288 Fusion Splices
3 Coiled Buffer Tubes
1-6
7-12
CLAMSHELL, 288 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE
24SMF CABLE ODOT (future)
144SMF DROP CABLE (DoT TRUNK)
144SMF DROP CABLE (CTSS TRUNK)
CAP AND COIL 150' OF 24SMF FIBER OPTIC CABLE FOR FUTURE ODOT CONNECTION
MATCHLINE A - SEE THIS SHEET
24SMF CABLE I-270 BACKBONE (CTSS)
144SMF CABLE NORTH I-270 BACKBONE (DoT)
144SMF CABLE SOUTH I-270 BACKBONE (DoT)
6 Cable Entries
312 Fusion Splices
DOME, 800 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE
24SMF DROP CABLE I-270 BACKBONE (CTSS)
144SMF DROP CABLE NORTH I-270 BACKBONE (DoT)
144SMF DROP CABLE SOUTH I-270 BACKBONE (DoT)
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
315
33
161
71
270
33
315
670
70
270
104
71
33
COMMUNICATION NODE 270009.3
REFER TO SHEET 551 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 599 FOR COMMUNICATIONS OVERVIEW
CIP: 540007 - 100005
PID NUMBER: 14522
PROPOSED COMMUNICATION NODE# 270009.3: IR-270 AT TRABUE RD.
FIBER OPTIC SPLICING DIAGRAM
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT
887
911
Phase C comm nodes.vsd - 270009.3-2 layout ~ last saved 11/28/2018 11:01:42 AM ~ printed: 11/28/2018 11:01:42 AM

COMMUNICATION NODE EQUIPMENT CABINET (#2)



ETHERNET SWITCH PORT DESTINATION

PORT 2: EXISTING COMMUNICATION NODE# 270032.3: IR-270 AT MORSE RD.
SEE SHEET 909

PORT 3: EXISTING COMMUNICATION NODE# 270027.7: IR-270 AT CLEVELAND AVE.
SEE SHEET 908

PORT 4: INT# SIG4439: SUNBURY RD. AT VALLEY QUAIL BLVD. SOUTH
SEE SHEET 851

PORT 5: INT# SIG4439: SUNBURY RD. AT VALLEY QUAIL BLVD. SOUTH
SEE SHEET 851

PORT 6: INT# SIG4670: DEMPSEY RD. AT HEMPSTEAD RD.
SEE SHEET 850

PORT 7: INT# SIG4095: CAIRO RD. AT DEMPSEY 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

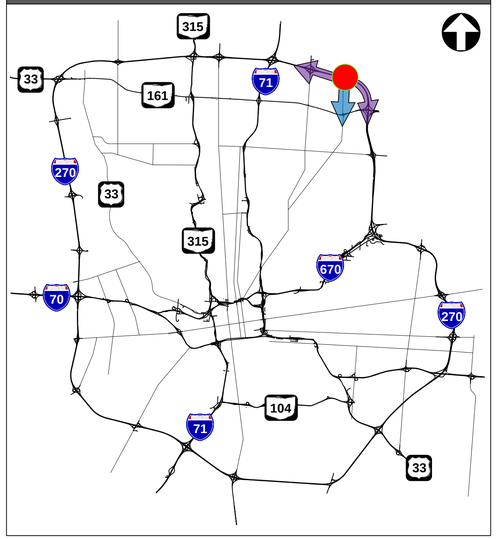
FIBER SPLICING (DARK/LIGHT – PROPOSED/EXISTING)

- FUSION SPLICE – 12 FIBER BUFFER TUBE
- FUSION SPLICE – PARTIAL BUFFER TUBE
- FUSION SPLICE – SINGLE FIBER
- COILED FIBER OR BUFFER TUBE

EQUIPMENT AND TERMINATION CABINET

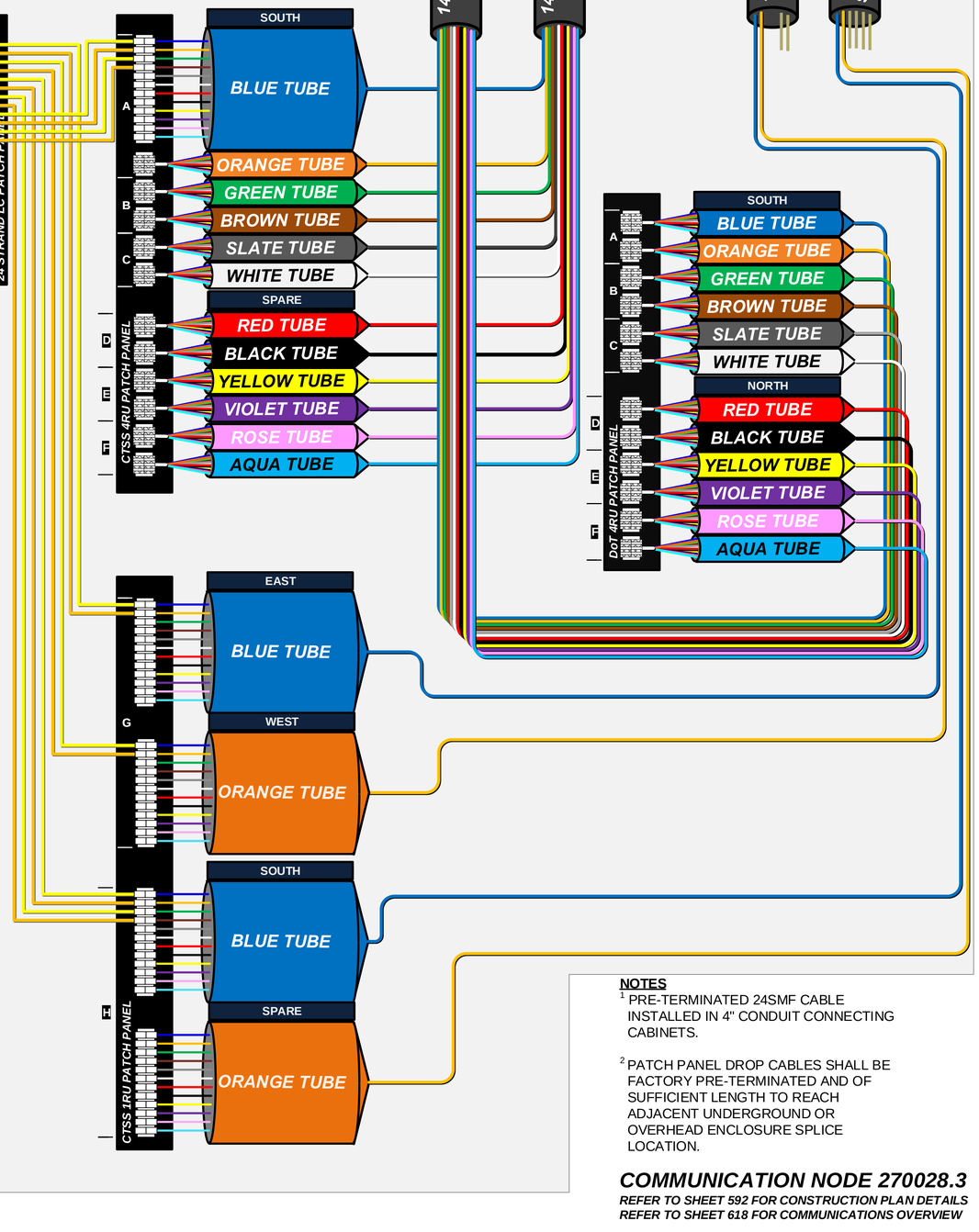
- LH/ZX LH/ZX GBIC OPTICAL TRANSCEIVER
  LH - SHORT HAUL
  ZX – LONG HAUL
- 8P8C CONNECTOR
- EMPTY SFP MODULE BAY
- LC TERMINATION – SINGLE FIBER
- LC TERMINATION – 12 FIBER BUFFER TUBE
- WIRELESS ETHERNET RADIO

KEY PLAN



MATCHLINE B - SEE SHEET 889

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 270028.3

REFER TO SHEET 592 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 618 FOR COMMUNICATIONS OVERVIEW

CIP: 540007 - 100005
PID NUMBER: 14522

PROPOSED COMMUNICATION NODE# 270028.3: IR-270 AT WESTERVILLE RD.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

Phase C comm nodes.vsd - 270028.3 layout ~ last saved 11/28/2018 11:01:42 AM ~ printed: 11/28/2018 11:01:42 AM

EXISTING 32" PULL BOX

5 Cable Entries
60 Fusion Splices
2 Coiled Buffer Tubes
20 Buffer Tubes Passed Through Unspliced

EXISTING UNDERGROUD SPLICE ENCLOSURE

EXISTING 24SMF CABLE ODOT

150' OF 24SMF FIBER OPTIC CABLE CAP AND COILED FOR ODOT CONNECTION

288SMF CABLE WEST I-270 BACKBONE

288SMF CABLE EAST I-270 BACKBONE

TO:
EXISTING COMMUNICATION NODE# 270027.7: IR-270 AT CLEVELAND AVE.

TO:
SPLICE-09: I-270 AT SR-161
SEE SHEET 854

24SMF DROP CABLE (I-270 BACKBONE)

24SMF DROP CABLE SOUTH (I-270 BACKBONE)

MATCHLINE A - SEE THIS SHEET

PROPOSED 48" PULL BOX

4 Cable Entries
144 Fusion Splices
15 Coiled Buffer Tubes

CLAMSHELL, 144 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE

CAP AND COIL 150' OF 24SMF FIBER OPTIC CABLE FOR FUTURE ODOT CONNECTION

24SMF CABLE ODOT (Future)

1-6 7-12
1-6 7-12
1-6 7-12

144SMF CABLE SOUTH DEMPSEY RD TRUNK

TO:
SPLICE-10: DEMPSEY RD. AT WESTERVILLE RD.
SEE SHEET 847

144SMF DROP CABLE (DoT TRUNK)

144SMF DROP CABLE (CTSS TRUNK)

24SMF DROP CABLE (I-270 BACKBONE)

24SMF DROP CABLE SOUTH (I-270 BACKBONE)

MATCHLINE A - SEE THIS SHEET

MATCHLINE B - SEE SHEET 888

LEGEND

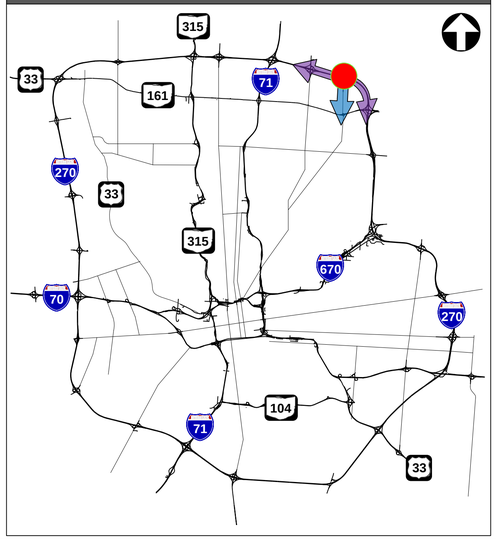
EQUIPMENT CABLE
- FIBER PATCH CABLES Tx/Tx
- CAT 5E CABLE
- FIBER PATCH CABLES Tx/Rx CROSSOVER
- EXISTING FIBER PATCH CABLES

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 592 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 618 FOR COMMUNICATIONS OVERVIEW

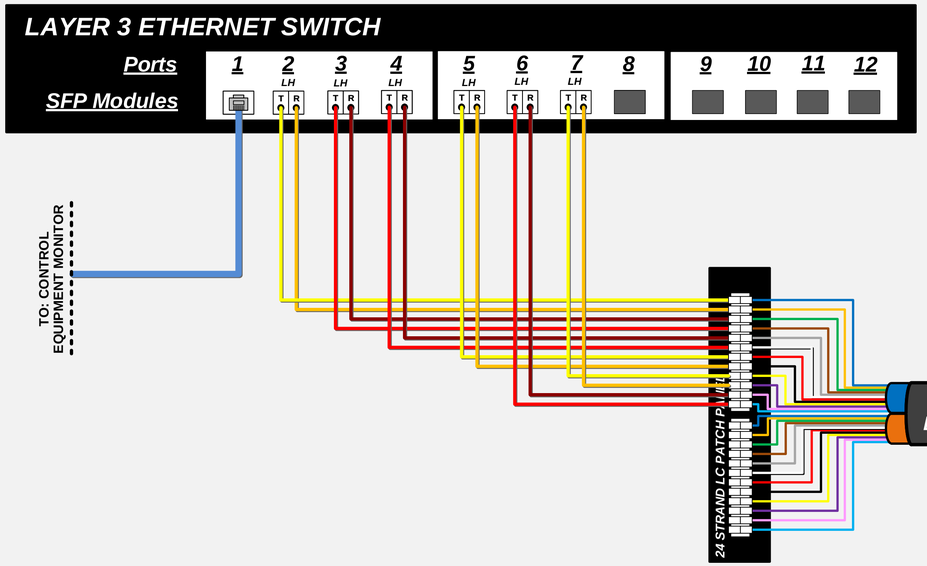
CIP: 540007 - 100005
PID NUMBER: 14522

PROPOSED COMMUNICATION NODE# 270028.3: IR-270 AT WESTERVILLE RD.
FIBER OPTIC SPLICING DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

Phase C comm nodes.vsd - 270028.3-2 layout - last saved 11/28/2018 11:01:42 AM - printed: 11/28/2018 11:01:42 AM

COMMUNICATION NODE EQUIPMENT CABINET (#2)



ETHERNET SWITCH PORT DESTINATION

PORT 2: EXISTING COMMUNICATION NODE# 270043.0: IR-270 AT IR-70
SEE SHEET 898

PORT 3: PROPOSED COMMUNICATION NODE# 070109.9: BRICE RD. AT IR-70
SEE SHEET 878

PORT 4: INT# 2160: HAMILTON RD. AT REFUGEE RD.
SEE SHEET 844

PORT 5: INT# 2217: REFUGEE RD. AT TENNYSON BLVD.
SEE SHEET 843

PORT 6: INT# 2190: GENDER RD. AT REFUGEE RD.
SEE SHEET 827

PORT 7: INT# 2208: GENDER RD. AT UPPERRIDGE DR.
SEE SHEET 826

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

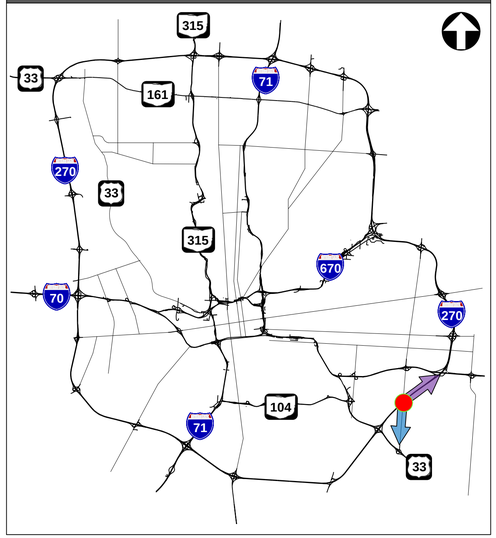
FIBER SPLICING (DARK/LIGHT – PROPOSED/EXISTING)

- FUSION SPLICE – 12 FIBER BUFFER TUBE
- FUSION SPLICE – PARTIAL BUFFER TUBE
- FUSION SPLICE – SINGLE FIBER
- COILED FIBER OR BUFFER TUBE

EQUIPMENT AND TERMINATION CABINET

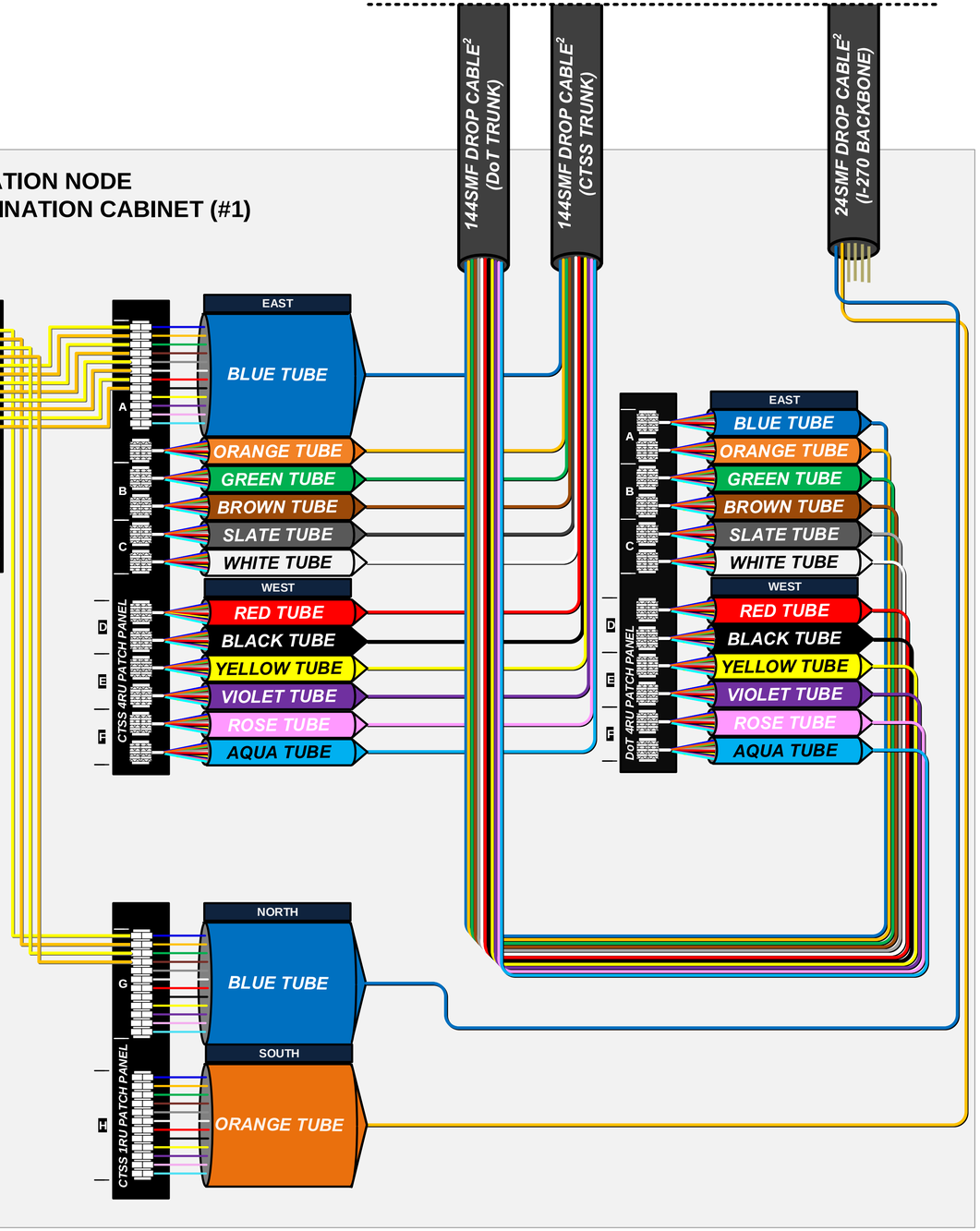
- LH/ZX LH/ZX — GBIC OPTICAL TRANSCEIVER; LH - SHORT HAUL; ZX – LONG HAUL
- 8P8C CONNECTOR
- EMPTY SFP MODULE BAY
- LC TERMINATION – SINGLE FIBER
- LC TERMINATION – 12 FIBER BUFFER TUBE
- WIRELESS ETHERNET RADIO

KEY PLAN



MATCHLINE A - SEE SHEET 891

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 270045.5

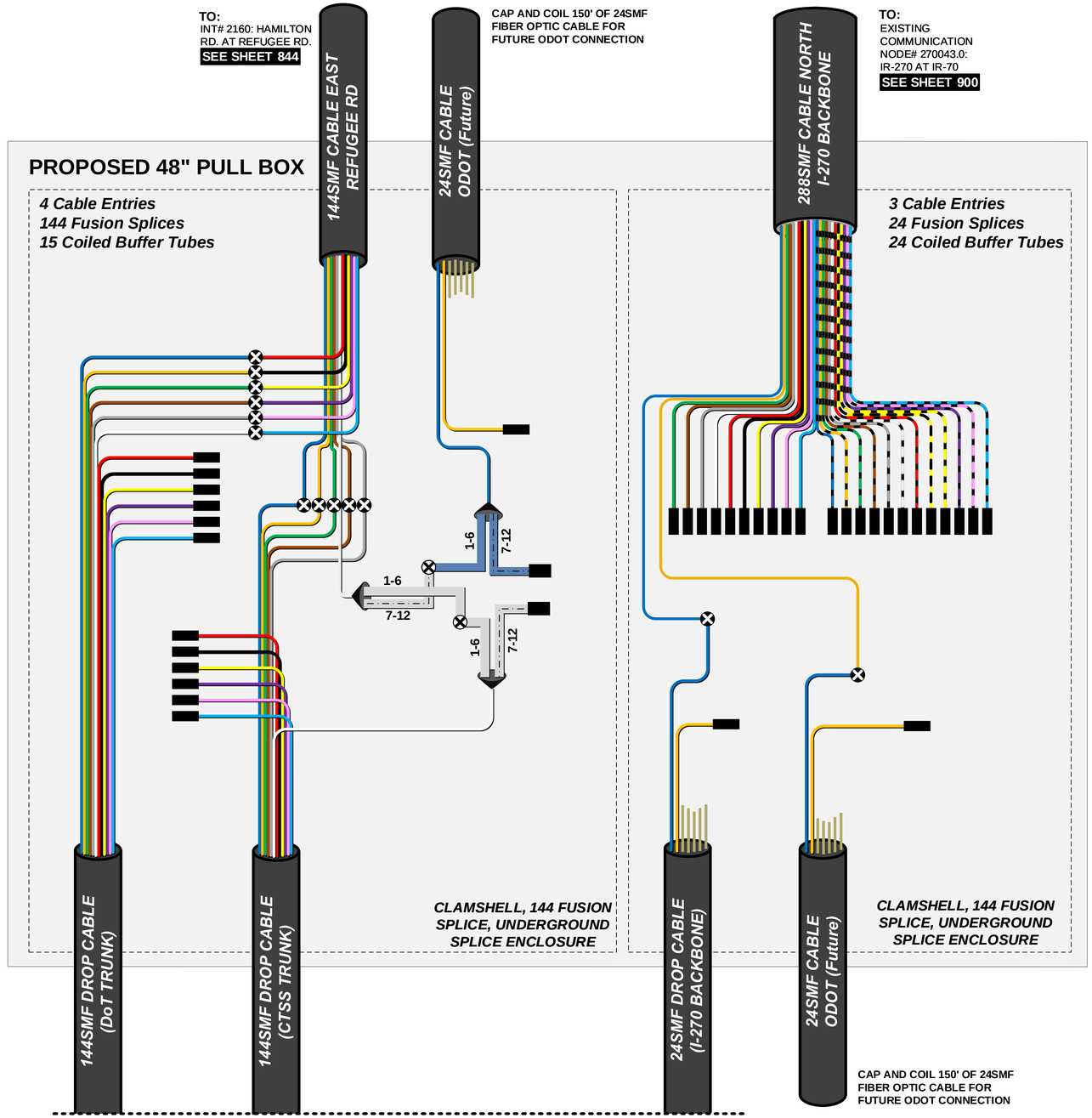
REFER TO SHEET 569 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 615 FOR COMMUNICATIONS OVERVIEW

CIP: 540007 - 100005
PID NUMBER: 14522

PROPOSED COMMUNICATION NODE# 270045.5: HAMILTON RD. AT IR-270
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

Phase C comm nodes.vsd - 270045.5 layout ~ last saved 11/28/2018 11:01:42 AM ~ printed: 11/28/2018 11:01:42 AM



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

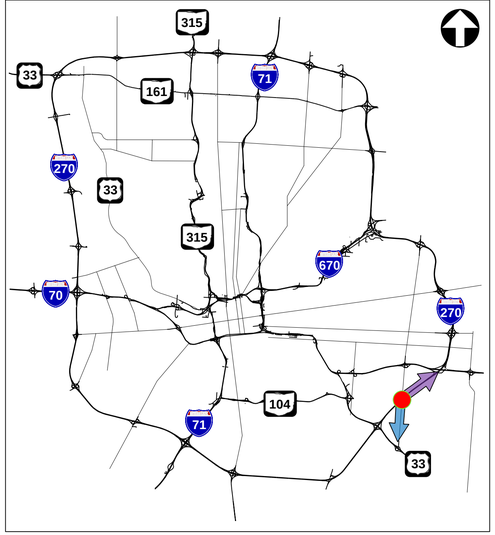
FIBER SPLICING (DARK/LIGHT – PROPOSED/EXISTING)

- 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 270045.5

REFER TO SHEET 569 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 615 FOR COMMUNICATIONS OVERVIEW

CIP: 540007 - 100005
PID NUMBER: 14522

PROPOSED COMMUNICATION NODE# 270045.5: HAMILTON RD. AT IR-270
FIBER OPTIC SPLICING DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

891
911

Phase C comm nodes.vsd - 270045.5-2 layout ~ last saved 11/28/2018 11:01:42 AM ~ printed: 11/28/2018 11:01:42 AM

COMMUNICATION NODE EQUIPMENT CABINET (#2)

LAYER 3 ETHERNET SWITCH

Ports: 1 | 2 LH | 3 LH | 4 LH | 5 LH | 6 LH | 7 LH | 8 LH | 9 LH | 10 | 11 | 12

SFP Modules

TO: CONTROL EQUIPMENT MONITOR

24 STRAND LC PATCH PANEL

24SMF DROP CABLE[1]

24 STRAND LC PATCH PANEL

ETHERNET SWITCH PORT DESTINATION

PORT 2: PROPOSED COMMUNICATION NODE# 315000.9: SR-315 AT W. BROAD ST.
SEE SHEET 905

PORT 3: EXISTING COMMUNICATION NODE# 315001.3: SR-315 AT IR-670
SEE SHEET 894

PORT 4: EXISTING COMMUNICATION NODE# 070096.0: IR-70 AT IR-670
SEE SHEET 903

PORT 5: INT# 4129: GRANDVIEW AVE. AT I-670 WB RAMPS / WATERMARK DR.
SEE SHEET 692

PORT 6: INT# 4232: DUBLIN RD. AT I-670 EB RAMPS
SEE SHEET 695

PORT 7: INT# 4128: GRANDVIEW AVE. AT McKINLEY AVE.
SEE SHEET 690

PORT 8: INT# 4130: GRANDVIEW AVE. AT I-670 EB RAMPS
SEE SHEET 691

MATCHLINE B - SEE SHEET 893

144SMF DROP CABLE[2] (DoT TRUNK)

144SMF DROP CABLE[2] (CTSS TRUNK)

24SMF DROP CABLE[2] I-670 BACKBONE (CTSS)

144SMF DROP CABLE WEST I-670 BACKBONE (DoT)

144SMF DROP CABLE EAST I-670 BACKBONE (DoT)

CTSS 4RU PATCH PANEL (A–F)

- 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 (G)

- EAST: BLUE TUBE
- WEST: ORANGE TUBE

DoT 4RU PATCH PANEL (G–T)

- 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)

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

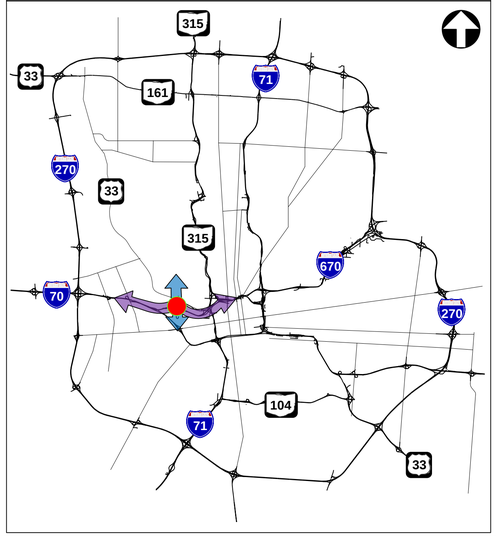
FIBER SPLICING (DARK/LIGHT – PROPOSED/EXISTING)

- 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



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 670001.4

REFER TO SHEET 554 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 601 FOR COMMUNICATIONS OVERVIEW

CIP: 540007 - 100005
PID NUMBER: 14522

PROPOSED COMMUNICATION NODE# 670001.4: GRANDVIEW AVE. AT IR-670 COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM (CTSS) PHASE C – CONSTRUCTION AS-BUILT

Phase C comm nodes.vsd - 670001.4 layout ~ last saved 11/28/2018 11:01:42 AM ~ printed: 11/28/2018 11:01:42 AM

PROPOSED 48" PULL BOX

5 Cable Entries
312 Fusion Splices
10 Buffer Tubes Passed Through Unspliced

288SMF CABLE WEST I-670 BACKBONE

288SMF CABLE EAST I-670 BACKBONE

TO:
EXISTING COMMUNICATION NODE# 070096.0: IR-70 AT IR-670

TO:
EXISTING COMMUNICATION NODE# 315001.3: SR-315 AT IR-670

24SMF CABLE I-670 BACKBONE (CTSS)

144SMF CABLE WEST I-670 BACKBONE (DoT)

144SMF CABLE EAST I-670 BACKBONE (DoT)

DOME, 800 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE

MATCHLINE A - SEE THIS SHEET

TO:
INT# 4129: GRANDVIEW AVE. AT I-670 WB RAMPS / WATERMARK DR.
SEE SHEET 692

144SMF CABLE NORTH GRANDVIEW TRUNK

CAP AND COIL 150' OF 24SMF FIBER OPTIC CABLE FOR FUTURE ODOT CONNECTION

24SMF CABLE ODOT (Future)

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

MATCHLINE A - SEE THIS SHEET

PROPOSED 48" PULL BOX

5 Cable Entries
288 Fusion Splices
3 Coiled Buffer Tubes

1-6, 7-12, 7-12, 1-6, 1-6, 7-12, 1-6, 7-12, 1-6, 7-12

6 Cable Entries
312 Fusion Splices

24SMF CABLE I-670 BACKBONE (CTSS)

144SMF CABLE WEST I-670 BACKBONE (DoT)

144SMF CABLE EAST I-670 BACKBONE (DoT)

144SMF CABLE SOUTH GRANDVIEW TRUNK

CLAMSHELL, 288 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE

144SMF DROP CABLE (DoT TRUNK)

144SMF DROP CABLE (CTSS TRUNK)

24SMF DROP CABLE I-670 BACKBONE (CTSS)

144SMF DROP CABLE WEST I-670 BACKBONE (DoT)

144SMF DROP CABLE EAST I-670 BACKBONE (DoT)

DOME, 800 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE

TO:
INT# 4130: GRANDVIEW AVE. AT I-670 EB RAMPS
SEE SHEET 691

MATCHLINE B - SEE SHEET 892

LEGEND

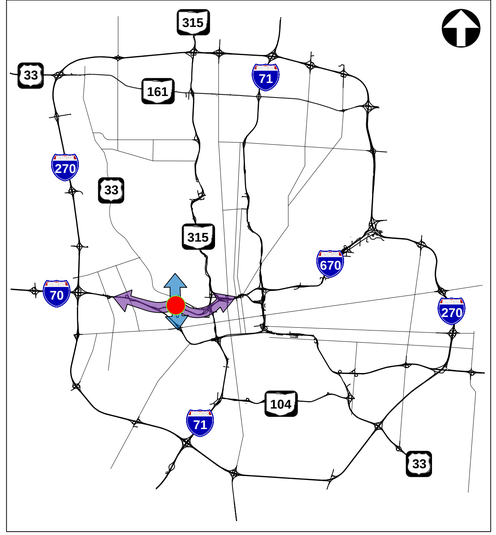
EQUIPMENT CABLE
- FIBER PATCH CABLES Tx/Tx
- FIBER PATCH CABLES Tx/Rx CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE

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



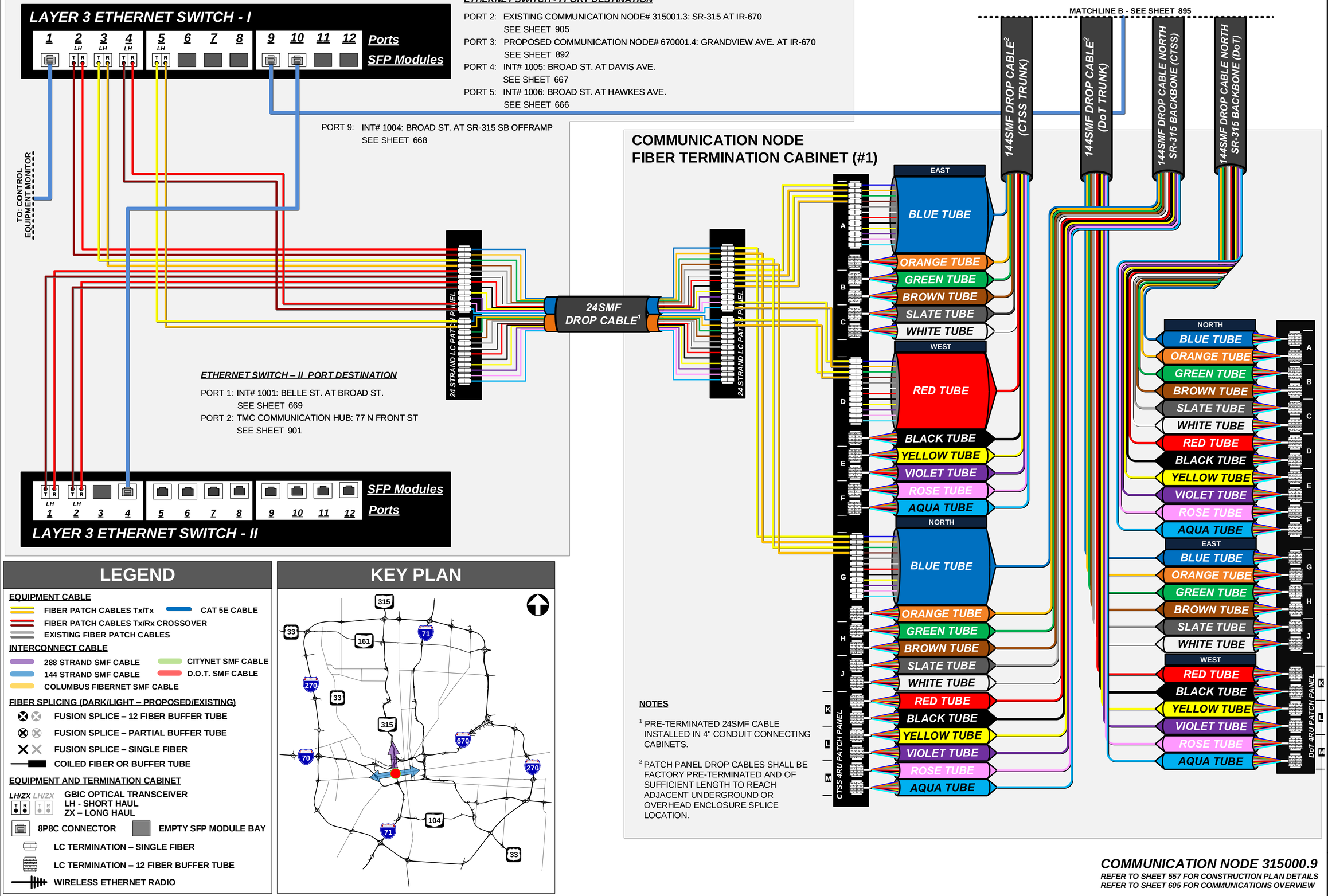
COMMUNICATION NODE 670001.4
REFER TO SHEET 554 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 601 FOR COMMUNICATIONS OVERVIEW

CIP: 540007 - 100005
PID NUMBER: 14522

PROPOSED COMMUNICATION NODE# 670001.4: GRANDVIEW AVE. AT IR-670
FIBER OPTIC SPLICING DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

Phase C comm nodes.vsd - 670001.4-2 layout ~ last saved 11/28/2018 11:01:42 AM ~ printed: 11/28/2018 11:01:42 AM



CIP: 540007 - 100005
PID NUMBER: 14522

PROPOSED COMMUNICATION NODE# 315000.9: SR-315 AT W. BROAD ST.
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

COMMUNICATION NODE 315000.9

REFER TO SHEET 557 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 605 FOR COMMUNICATIONS OVERVIEW

Phase C comm nodes.vsd - 315000.9 layout ~ last saved 11/28/2018 11:01:42 AM ~ printed: 11/28/2018 11:01:42 AM

TO:
INT# 1001: BELLE ST. AT BROAD ST.
SEE SHEET 669

TO:
INT# 1004: BROAD ST. AT SR-315 SB OFFRAMP
SEE SHEET 668

TO:
EXISTING COMMUNICATION NODE# 315001.3: SR-315 AT IR-670

CAP AND COIL 150' OF 24SMF FIBER OPTIC CABLE FOR FUTURE ODOT CONNECTION

24SMF CABLE ODOT (Future)

288SMF CABLE EAST W BROAD ST TRUNK

288SMF CABLE NORTH SR-315 BACKBONE

PROPOSED 48" PULL BOX

5 Cable Entries
288 Fusion Splices
15 Coiled Buffer Tubes

1-6
7-12
1-6
7-12
1-6
7-12
1-6
7-12

4 Cable Entries
288 Fusion Splices
2 Coiled Buffer Tubes

TO:
INT# 1005: BROAD ST. AT DAVIS AVE.
SEE SHEET 667

288SMF CABLE WEST W BROAD ST TRUNK

144SMF DROP CABLE (CTSS TRUNK)

144SMF DROP CABLE (DoT TRUNK)

144SMF DROP CABLE NORTH SR-315 BACKBONE (CTSS)

144SMF DROP CABLE NORTH SR-315 BACKBONE (DoT)

24SMF CABLE ODOT (Future)

CAP AND COIL 150' OF 24SMF FIBER OPTIC CABLE FOR FUTURE ODOT CONNECTION

CLAMSHELL, 288 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE

CLAMSHELL, 288 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE

MATCHLINE B - SEE SHEET 894

LEGEND

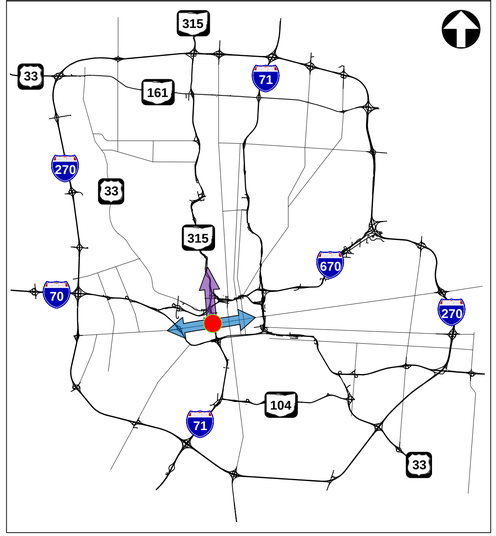
EQUIPMENT CABLE
- FIBER PATCH CABLES Tx/Tx
- CAT 5E CABLE
- FIBER PATCH CABLES Tx/Rx CROSSOVER
- EXISTING FIBER PATCH CABLES

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 315000.9

REFER TO SHEET 557 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 605 FOR COMMUNICATIONS OVERVIEW

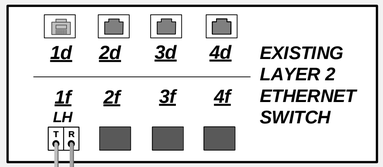
CIP: 540007 - 100005
PID NUMBER: 14522

PROPOSED COMMUNICATION NODE# 315000.9: SR-315 AT W. BROAD ST.
FIBER OPTIC SPLICING DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

Phase C comm nodes.vsd - 315000.9-2 layout ~ last saved 11/28/2018 11:01:42 AM ~ printed: 11/28/2018 11:01:42 AM

EXISTING COMMUNICATION NODE EQUIPMENT CABINET (#2)



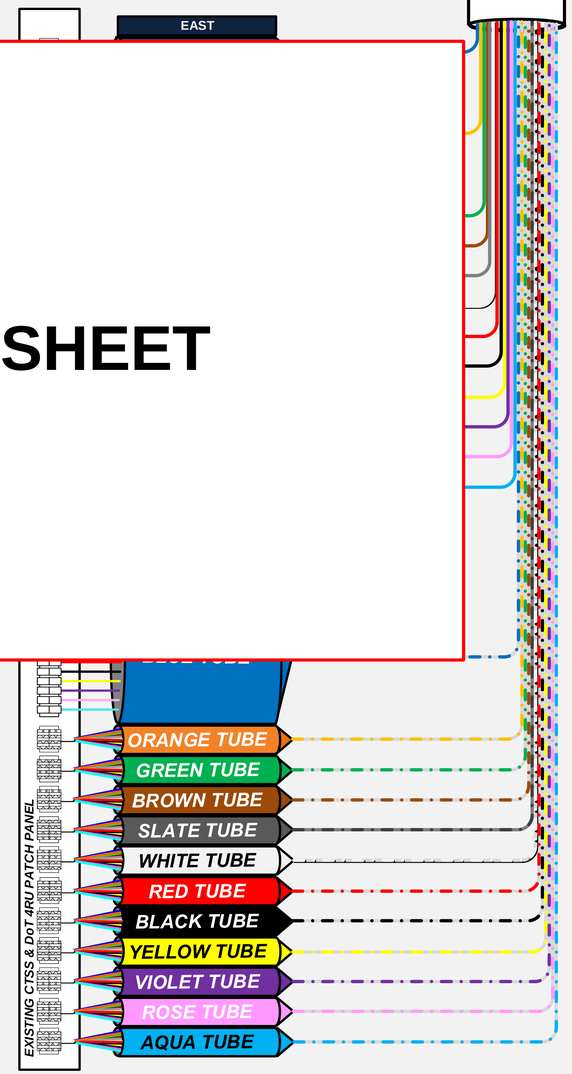
NO WORK ON THIS SHEET

ETHERNET SWITCH PORT DESTINATION

PORT 1: EXISTING COMMUNICATION NODE# 315001.3: SR-315 AT IR-67
SEE SHEET 905

EXISTING COMMUNICATION NODE FIBER TERMINATION CABINET (#1)

MATCHLINE A - 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

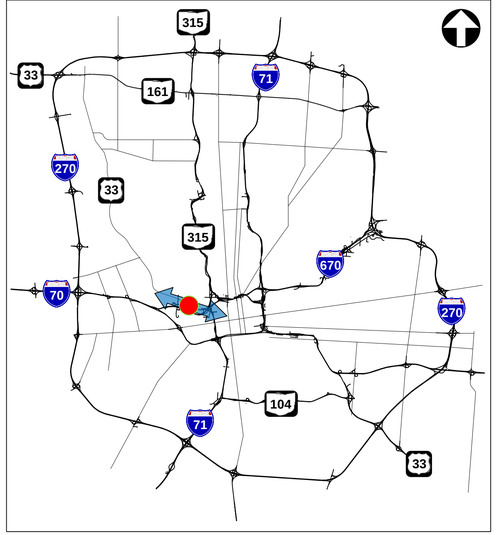
FIBER SPLICING (DARK/LIGHT – PROPOSED/EXISTING)

- 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



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.

FRANKLIN CO ENGINEER OFFICE

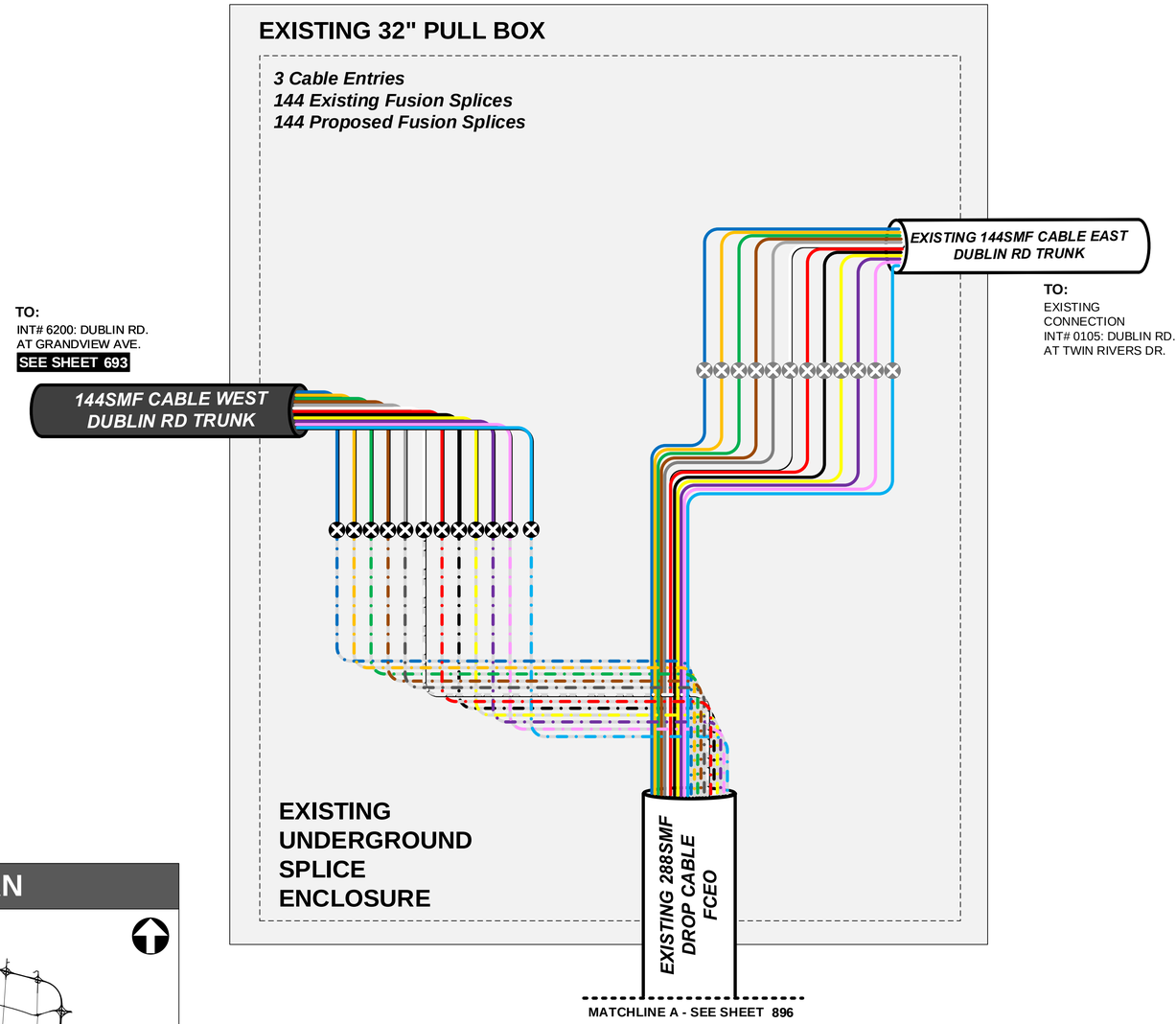
REFER TO SHEET 235 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 601 FOR COMMUNICATIONS OVERVIEW

CIP: 540007 - 100005
PID NUMBER: 14522

INT# FCEO: DUBLIN RD. AT FCEO
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

Phase C comm nodes.vsd - FCEO layout ~ last saved 11/28/2018 11:01:42 AM ~ printed: 11/28/2018 11:01:42 AM



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

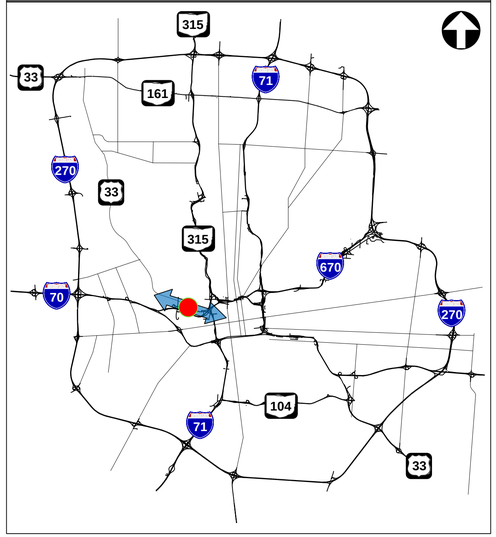
FIBER SPLICING (DARK/LIGHT – PROPOSED/EXISTING)

- 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 (T R / T R) 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



CIP: 540007 - 100005
PID NUMBER: 14522

INT# FCEO: DUBLIN RD. AT FCEO
FIBER OPTIC CABLE SPLICING DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

FRANKLIN CO ENGINEER OFFICE

REFER TO SHEET 235 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 601 FOR COMMUNICATIONS OVERVIEW

Phase C comm nodes.vsd - FCEO-2 layout ~ last saved 11/28/2018 11:01:42 AM ~ printed: 11/28/2018 11:01:42 AM

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					LH	LH	LH	LH				

TO: CONTROL EQUIPMENT MONITOR

24 STRAND LC PATCH PANEL

24SMF DROP CABLE

24 STRAND LC PATCH PANEL

ETHERNET SWITCH PORT DESTINATION

PORT 5: EXISTING COMMUNICATION NODE# 270039.5: IR-270 AT E BROAD ST.

PORT 6: PROPOSED COMMUNICATION NODE# 070107.6: HAMILTON RD. AT IR-70
SEE SHEET 876

PORT 7: PROPOSED COMMUNICATION NODE# 270045.5: HAMILTON RD. AT IR-270
SEE SHEET 890

PORT 8: PROPOSED COMMUNICATION NODE# 070109.9: BRICE RD. AT IR-70
SEE SHEET 878

COMMUNICATION NODE FIBER TERMINATION CABINET (#1)

MATCHLINE A - SEE SHEET 900

144SMF DROP CABLE WEST (CTSS BACKBONE)[2]

144SMF DROP CABLE NORTH (CTSS BACKBONE)[2]

144SMF DROP CABLE SOUTH (CTSS BACKBONE)[2]

144SMF DROP CABLE EAST (CTSS BACKBONE)[2]

3

CTSS 4RU PATCH PANEL (A–M)

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
RED TUBE
BLACK TUBE
YELLOW TUBE
VIOLET TUBE
ROSE TUBE
AQUA TUBE

CTSS 4RU PATCH PANEL (N–Z, AA–MM)

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

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

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

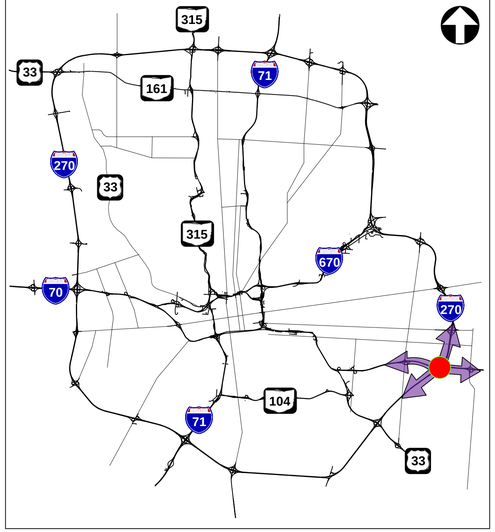
FIBER SPLICING (DARK/LIGHT – PROPOSED/EXISTING)

- 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



DoT TERMINATION PANELS SHOWN ON SHEET **899**

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.
4. REPLACE EXISTING ZX SFP MODULE FROM PORT 6 WITH LH SFP MODULE. TURN OVER EXISTING ZX SFP MODULE TO CITY OF COLUMBUS.

COMMUNICATION NODE 270043.0

REFER TO SHEET 581 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 614 FOR COMMUNICATIONS OVERVIEW

CIP: 540007 - 100005
PID NUMBER: 14522

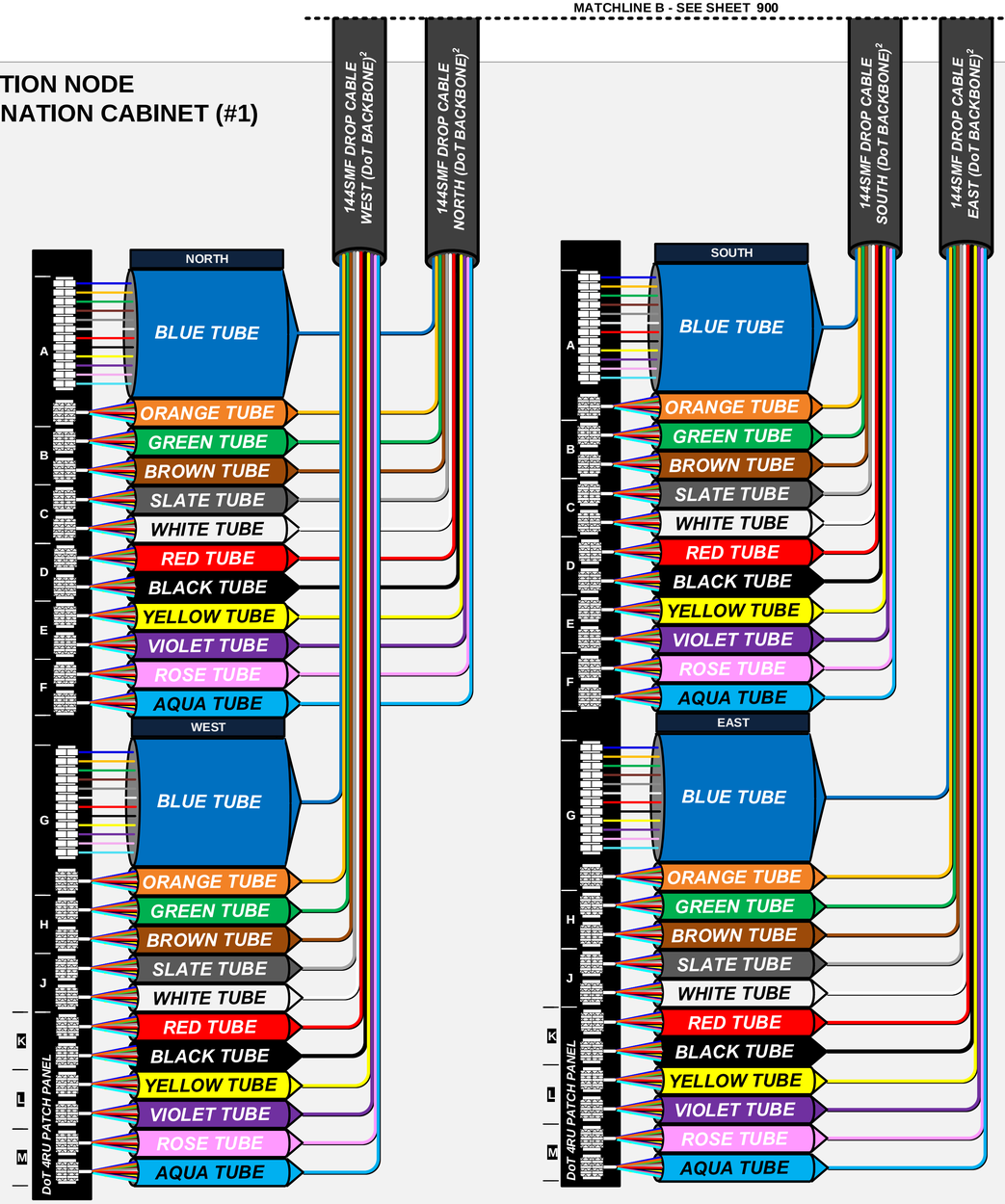
EXISTING COMMUNICATION NODE# 270043.0: IR-270 AT IR-70
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

Phase C comm nodes.vsd - 270043.0 layout - last saved 11/28/2018 11:01:42 AM - printed: 11/28/2018 11:01:42 AM

MATCHLINE B - SEE SHEET 900

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

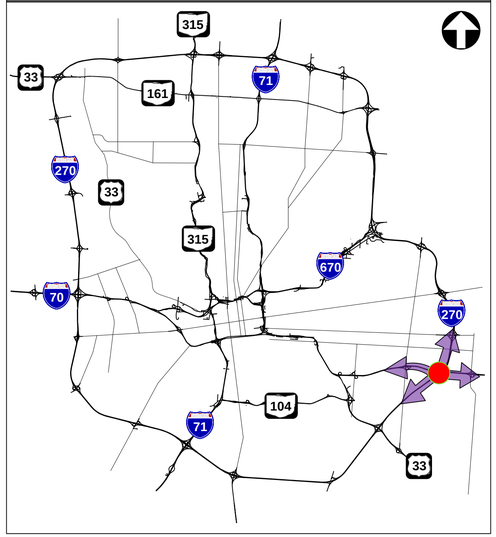
FIBER SPLICING (DARK/LIGHT – PROPOSED/EXISTING)

- 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 **898**

[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 270043.0

REFER TO SHEET 581 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 614 FOR COMMUNICATIONS OVERVIEW

CIP: 540007 - 100005
PID NUMBER: 14522

EXISTING COMMUNICATION NODE# 270043.0: IR-270 AT IR-70
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

Phase C comm nodes.vsd - 270043.0 (DoT) layout ~ last saved 11/28/2018 11:01:42 AM ~ printed: 11/28/2018 11:01:42 AM

MATCHLINE A - SEE SHEET 898

MATCHLINE B - SEE SHEET 899

TO:
EXISTING COMMUNICATION NODE# 270039.5: IR-270 AT E BROAD ST.

EXISTING 48" PULL BOX

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)

EXISTING 12SMF CABLE ODOT

EXISTING 288SMF CABLE NORTH I-270 BACKBONE

CLAMSHELL, 288 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE

144SMF DROP CABLE NORTH (DoT TRUNK)

144SMF DROP CABLE SOUTH (DoT TRUNK)

144SMF DROP CABLE EAST (DoT TRUNK)

TO:
PROPOSED COMMUNICATION NODE# 070105.5: IR-70 AT JAMES RD
SEE SHEET 875

EXISTING 288SMF CABLE WEST I-70 BACKBONE

EXISTING 12SMF CABLE ODOT

CLAMSHELL, 288 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE

288SMF CABLE EAST I-70 BACKBONE

TO:
PROPOSED COMMUNICATION NODE# 070109.9: BRICE RD. AT IR-70
SEE SHEET 879

CLAMSHELL, 288 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE

24SMF CABLE ODOT (Future)

TYPICAL:
CAP AND COIL 150' OF 24SMF FIBER OPTIC CABLE FOR FUTURE ODOT CONNECTION

CLAMSHELL, 288 FUSION SPLICE, UNDERGROUND SPLICE ENCLOSURE

288SMF CABLE SOUTH I-270 BACKBONE

TO:
PROPOSED COMMUNICATION NODE# 270045.5: HAMILTON RD. AT IR-270
SEE SHEET 891

24SMF CABLE ODOT (Future)

TYPICAL:
CAP AND COIL 150' OF 24SMF FIBER OPTIC CABLE FOR FUTURE ODOT CONNECTION

LEGEND

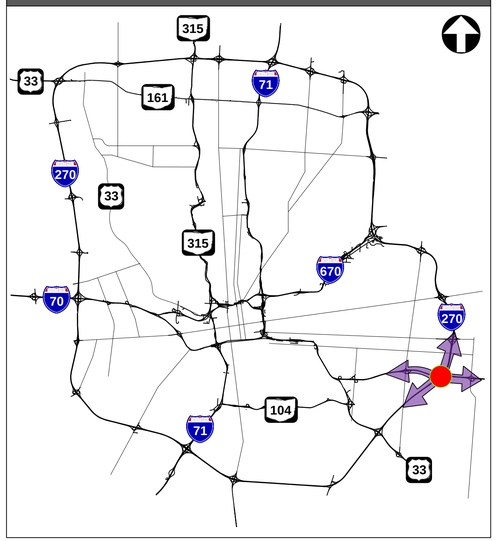
EQUIPMENT CABLE
- FIBER PATCH CABLES Tx/Tx
- FIBER PATCH CABLES Tx/Rx CROSSOVER
- EXISTING FIBER PATCH CABLES
- CAT 5E CABLE

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

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 270043.0

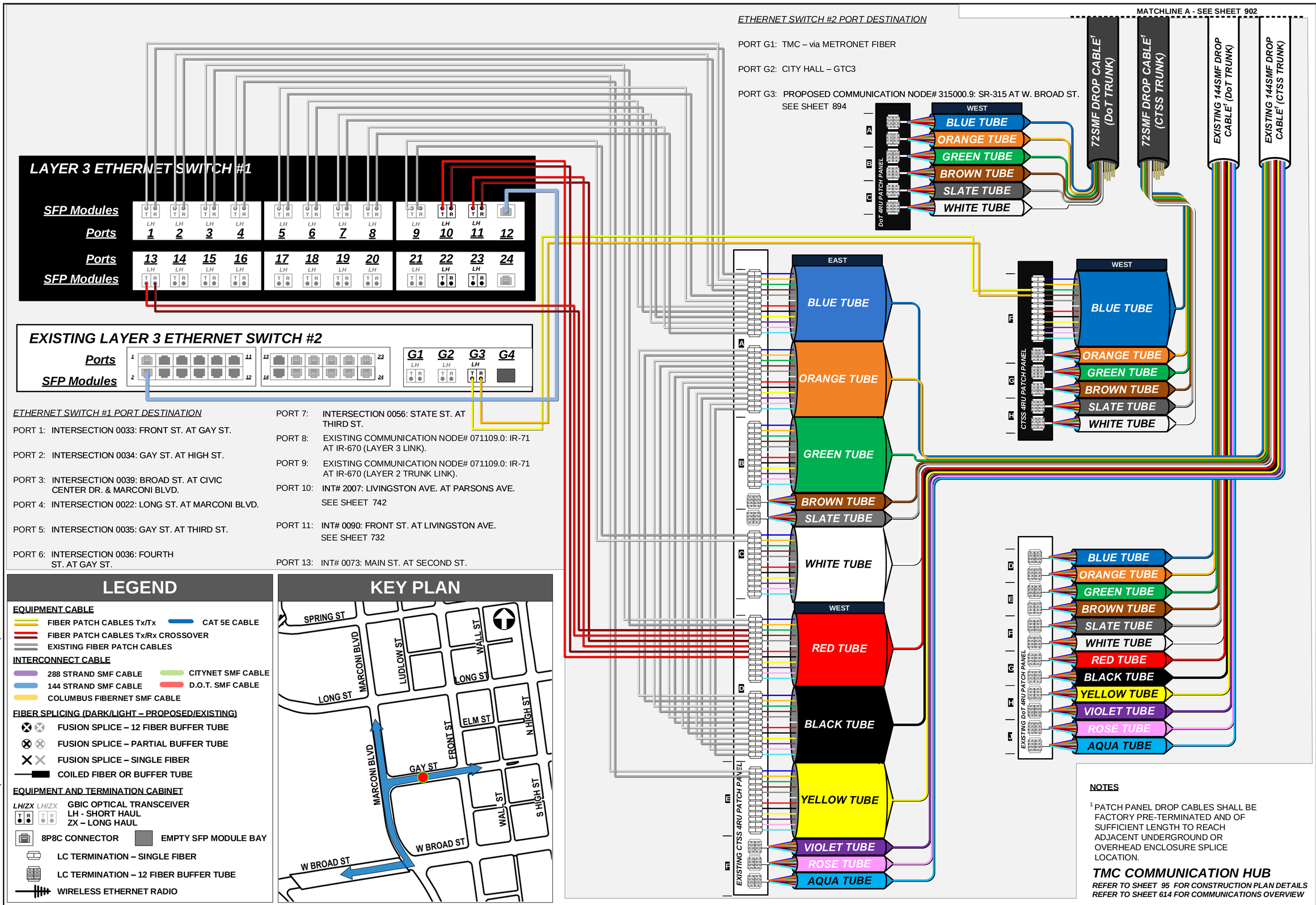
REFER TO SHEET 581 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 614 FOR COMMUNICATIONS OVERVIEW

CIP: 540007 - 100005
PID NUMBER: 14522

EXISTING COMMUNICATION NODE# 270043.0: IR-270 AT IR-70
FIBER OPTIC SPLICING DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

Phase C comm nodes.vsd - 270043.0-3 layout - last saved 11/28/2018 11:01:42 AM - printed: 11/28/2018 11:01:42 AM



ETHERNET SWITCH #1 PORT DESTINATION

PORT 1: INTERSECTION 0033: FRONT ST. AT GAY ST.

PORT 2: INTERSECTION 0034: GAY ST. AT HIGH ST.

PORT 3: INTERSECTION 0039: BROAD ST. AT CIVIC CENTER DR. & MARCONI BLVD.

PORT 4: INTERSECTION 0022: LONG ST. AT MARCONI BLVD.

PORT 5: INTERSECTION 0035: GAY ST. AT THIRD ST.

PORT 6: INTERSECTION 0036: FOURTH ST. AT GAY ST.

PORT 7: INTERSECTION 0056: STATE ST. AT THIRD ST.

PORT 8: EXISTING COMMUNICATION NODE# 071109.0: IR-71 AT IR-670 (LAYER 3 LINK).

PORT 9: EXISTING COMMUNICATION NODE# 071109.0: IR-71 AT IR-670 (LAYER 2 TRUNK LINK).

PORT 10: INT# 2007: LIVINGSTON AVE. AT PARSONS AVE. SEE SHEET 742

PORT 11: INT# 0090: FRONT ST. AT LIVINGSTON AVE. SEE SHEET 732

PORT 13: INT# 0073: MAIN ST. AT SECOND ST.

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] PATCH PANEL DROP CABLES SHALL BE FACTORY PRE-TERMINATED AND OF SUFFICIENT LENGTH TO REACH ADJACENT UNDERGROUND OR OVERHEAD ENCLOSURE SPLICE LOCATION.

TMC COMMUNICATION HUB

REFER TO SHEET 95 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 614 FOR COMMUNICATIONS OVERVIEW

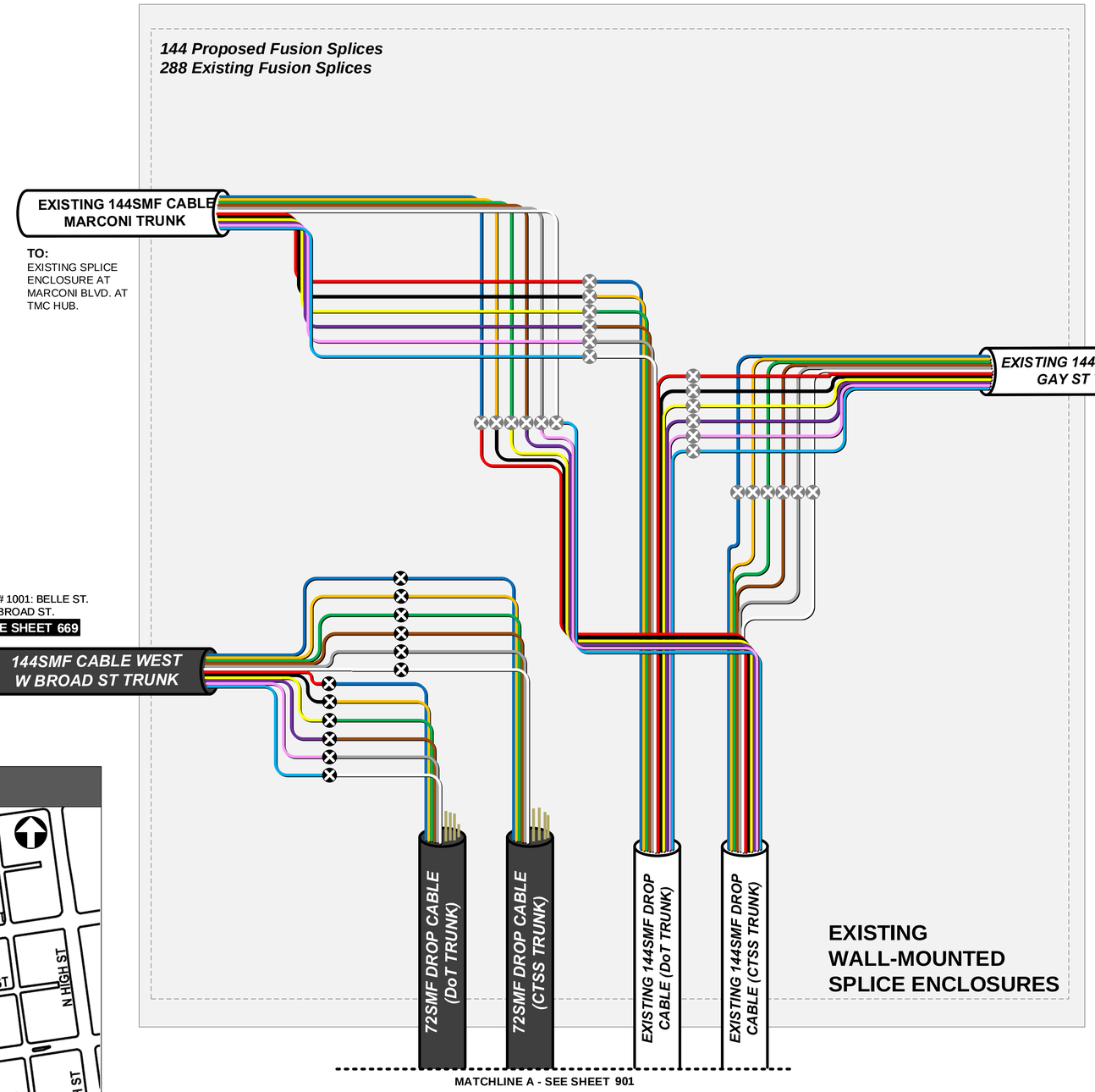
CIP: 540007 - 100005
PID NUMBER: 14522

TMC COMMUNICATION HUB: 77 N FRONT ST
COMMUNICATIONS DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

901
911

Phase C comm nodes.vsd - TMC layout - last saved 11/28/2018 11:01:42 AM - printed: 11/28/2018 11:01:42 AM



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

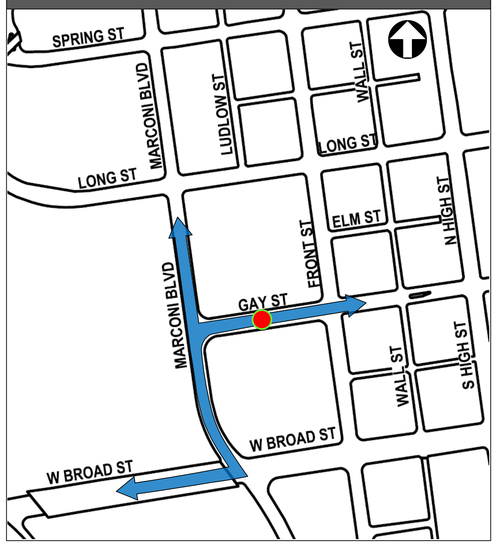
FIBER SPLICING (DARK/LIGHT – PROPOSED/EXISTING)

- 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



TMC COMMUNICATION HUB

REFER TO SHEET 95 FOR CONSTRUCTION PLAN DETAILS
REFER TO SHEET 614 FOR COMMUNICATIONS OVERVIEW

CIP: 540007 - 100005
PID NUMBER: 14522

TMC COMMUNICATION HUB: 77 N FRONT ST
FIBER OPTIC SPLICING DIAGRAM

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

902
911

Phase C comm nodes.vsd - TMC-2 layout - last saved 11/28/2018 11:01:42 AM - printed: 11/28/2018 11:01:42 AM

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: 1 2 3 4 (LH) 5 (LH) 6 (LH) 7 8 9 10 11 12

TO: CONTROL EQUIPMENT MONITOR

24 STRAND LC PATCH PANEL

BLUE TUBE (EAST)

ORANGE TUBE (WEST)

24SMF CABLE I-70 BACKBONE (CTSS)

ETHERNET SWITCH PORT DESTINATION

PORT 4: PROPOSED COMMUNICATION NODE# 070094.1: IR-70 AT WILSON RD.
SEE SHEET 865

PORT 5: PROPOSED COMMUNICATION NODE# 070097.3: BROAD ST. AT IR-70
SEE SHEET 867

PORT 6: PROPOSED COMMUNICATION NODE# 670001.4: GRANDVIEW AVE. AT IR-670
SEE SHEET 892

COMMUNICATION NODE FIBER TERMINATION CABINET (#1)

MATCHLINE A - SEE SHEET 864

24SMF CABLE I-70 BACKBONE (CTSS)

144SMF DROP CABLE WEST I-70 BACKBONE (DoT)

144SMF DROP CABLE EAST I-70 BACKBONE (DoT)

144SMF DROP CABLE EAST I-670 BACKBONE (DoT)

DoT 4RU PATCH PANEL

WEST 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

EAST 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

DoT 4RU PATCH PANEL

EAST I-670: BLUE TUBE, ORANGE TUBE, GREEN TUBE, BROWN TUBE, SLATE TUBE, WHITE TUBE, RED TUBE, BLACK TUBE, YELLOW TUBE, VIOLET TUBE, ROSE TUBE, AQUA TUBE

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

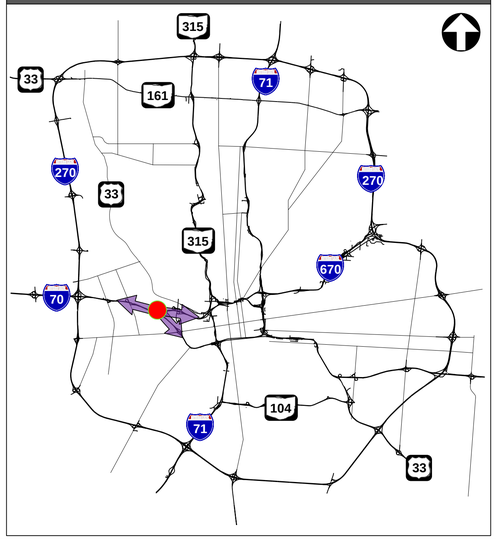
FIBER SPLICING (DARK/LIGHT – PROPOSED/EXISTING)

- 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 070096.0

CIP: 540007 - 100005
PID NUMBER: 14522

EXISTING COMMUNICATION NODE# 070096.0: IR-70 AT IR-670

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

903
911

Connections to Existing Nodes.vsd - 070096.0 layout ~ last saved 11/28/2018 11:05:32 AM ~ printed: 11/28/2018 11:05:32 AM

EXISTING COMMUNICATION NODE EQUIPMENT CABINET (#2)

LAYER 3 ETHERNET SWITCH

Ports	1	2	3	4	5	6	7	8	9	10	11	12
SFP Modules		LH	LH	LH	LH	LH	LH	LH	LH	LH		

TO: CONTROL EQUIPMENT MONITOR

24 STRAND LC PATCH PANEL

24 STRAND LC PATCH PANEL

ETHERNET SWITCH PORT DESTINATION

PORT 2: EXISTING CONNECTION – COMMUNICATION HUB: 77 N. FRONT ST. (LAYER 2 TRUNK LINK)

PORT 3: EXISTING CONNECTION – NODE 315001.3: SR-315 AT US-33/DUBLIN RD.

PORT 4: EXISTING CONNECTION – COLUMBUS TMC – 1881 E 25TH AVE COMMUNICATIONS ROOM

PORT 5: EXISTING CONNECTION – COMMUNICATIONS NODE 670006.5

PORT 6: NODE# 070103.1: IR-70 AT LIVINGSTON AVE.
SEE SHEET 560

PORT 7: EXISTING CONNECTION – INTERSECTION 0116: LESTER DR. AT SPRING ST.

PORT 8: EXISTING CONNECTION – COMMUNICATIONS HUB: 77 N. FRONT ST.

PORT 9: EXISTING CONNECTION – INTERSECTION 0001: CLEVELAND AVE. AT JACK GIBBS BLVD.

PORT 10: EXISTING CONNECTION – INTERSECTION 0042: BROAD ST. AT FOURTH ST.

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

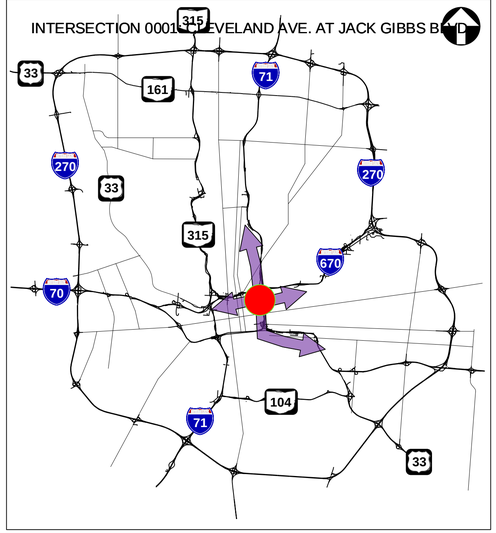
FIBER SPLICING (DARK/LIGHT – PROPOSED/EXISTING)

- 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



EXISTING EAST 288 STRAND CABLE

CTSS 144 STRAND LC PATCH PANEL

BLUE TUBE

EXISTING SOUTH 288 STRAND CABLE

CTSS 144 STRAND LC PATCH PANEL

BLUE TUBE

GREEN TUBE

RED TUBE

EXISTING NORTH 288 STRAND CABLE

CTSS 144 STRAND LC PATCH PANEL

BLUE TUBE

EXISTING WEST 288 STRAND CABLE

CTSS 144 STRAND LC PATCH PANEL

BLUE TUBE

GREEN TUBE

NOTES

1. INACTIVE FIBERS, PATCHING, AND PATCH PANEL CONNECTIONS ARE NOT SHOWN ON THIS SHEET FOR CLARITY.
2. REPLACE EXISTING ZX SFP MODULE FROM PORT 6 WITH LH SFP MODULE. TURN OVER EXISTING ZX SFP MODULE TO CITY OF COLUMBUS.

COMMUNICATION NODE FIBER TERMINATION CABINET (#1)

COMMUNICATION NODE 071109.0

REFER TO SHEET 605 FOR COMMUNICATIONS OVERVIEW

CIP: 540007 - 100005
PID NUMBER: 14522

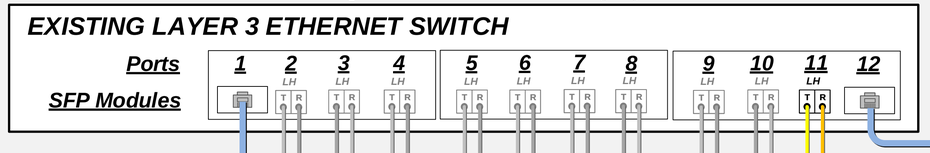
EXISTING COMMUNICATION NODE 071109.0: I-71 AT I-670

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

Connections to Existing Nodes.vsd - 071109.0 layout ~ last saved 11/28/2018 11:05:32 AM ~ printed: 11/28/2018 11:05:32 AM

COMMUNICATION NODE EQUIPMENT CABINET (#2)

EXISTING LAYER 3 ETHERNET SWITCH



TO:
INTERSECTION 0101:
DUBLIN RD. AT SR-315 NB

TO: CONTROL EQUIPMENT MONITOR

24 STRAND LC PATCH PANEL

EXISTING 24SMF DROP CABLE

ETHERNET SWITCH PORT DESTINATION

PORT 2: EXISTING CONNECTION –
INTERSECTION 0004: FRONT ST. AT NATIONWIDE BLVD.

PORT 3: EXISTING CONNECTION –
INTERSECTION 0012 & 0032: LONG ST. AND SPRING ST. AT NEIL AVE.

PORT 4: **REVISED CONNECTION** – COMMUNICATION NODE 670001.4: I-670 AT GRANDVIEW AVE.
SEE SHEET 892

PORT 5: EXISTING CONNECTION – COMMUNICATION NODE 315005.2: SR-315 AT ACKERMAN RD.

PORT 6: EXISTING CONNECTION – INTERSECTION 0103: DUBLIN RD. AT SR 315 SB ON RAMP & I-670 EB OFF RAMP

PORT 7: EXISTING CONNECTION – COMMUNICATION NODE 071109.0: I-71 AT I-670

PORT 8: EXISTING CONNECTION – INTERSECTION 0099: NATIONWIDE BLVD. AT NEIL AVE.

PORT 9: EXISTING CONNECTION – INTERSECTION 0113: BRODBELT LN. AT NEIL AVE.

PORT 10: EXISTING CONNECTION – INTERSECTION 0102: DUBLIN RD. AT SOUDER AVE.

PORT 11: PROPOSED COMMUNICATION NODE# 315000.9: SR-315 AT W. BROAD ST.
SEE SHEET 894

PORT 12: EXISTING CONNECTION – 0101: DUBLIN RD. AT SR-315 NB

COMMUNICATION NODE EQUIPMENT CABINET (#1)

TO EXISTING TRUNK AND BACKBONE FOC PATCH PANELS (DO NOT DISTURB)

24 STRAND LC PATCH PANEL

EXISTING CTSS LC 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

EXISTING 144SMF DROP CABLE I-670 WEST (CTSS BACKBONE)

EXISTING 144SMF DROP CABLE SR-315 SOUTH (CTSS BACKBONE)

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

LEGEND

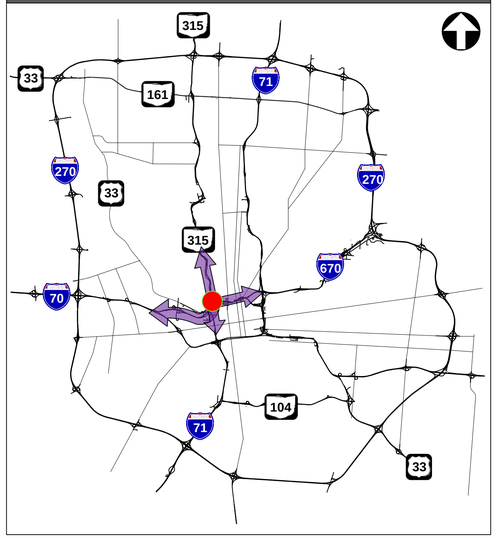
EQUIPMENT CABLE
- FIBER PATCH CABLES Tx/Tx
- CAT 5E CABLE
- FIBER PATCH CABLES Tx/Rx CROSSOVER
- EXISTING FIBER PATCH CABLES

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

SOME EXISTING FOC DROP CABLE AND TERMINATION PANELS NOT SHOWN ON THIS SHEET FOR CLARITY.

COMMUNICATION NODE 315001.3

REFER TO SHEET 605 FOR COMMUNICATIONS OVERVIEW

CIP: 540007 - 100005
PID NUMBER: 14522

EXISTING COMMUNICATION NODE# 315001.3: SR-315 AT IR-670

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

905
911

Connections to Existing Nodes.vsd - 315001.3 layout - last saved 11/28/2018 11:05:32 AM - printed: 11/28/2018 11:05:32 AM

EXISTING 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: 5 LH, 6 LH, 7 LH (T R)

TO: CONTROL EQUIPMENT MONITOR

24 STRAND LC PATCH PANEL

EXISTING 24SMF DROP CABLE

24 STRAND LC PATCH PANEL

TO EXISTING 48" PULLBOX AT NODE #270008.7: IR-70 AT IR-270

EXISTING 144SMF DROP CABLE SOUTH (CTSS TRUNK)

EXISTING 144SMF DROP CABLE EAST (CTSS TRUNK)

EXISTING 144SMF DROP CABLE NORTH (CTSS TRUNK)

EXISTING COMMUNICATION NODE FIBER TERMINATION CABINET (#1)

EXISTING CTSS144 STRAND LC 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

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

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

ETHERNET SWITCH PORT DESTINATION

PORT 5: PROPOSED COMMUNICATION NODE# 070094.1: IR-70 AT WILSON RD.
SEE SHEET 865

PORT 6: PROPOSED COMMUNICATION NODE# 270009.3: IR-270 AT TRABUE RD.
SEE SHEET 886

PORT 7: EXISTING COMMUNICATION NODE# 270004.5: GEORGESVILLE RD. AT IR-270
SEE SHEET 883

LEGEND

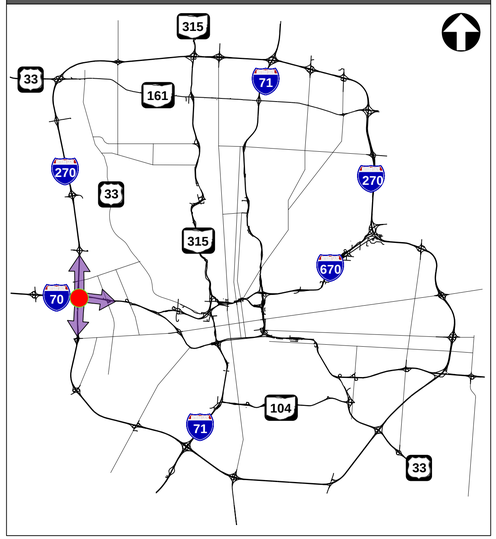
EQUIPMENT CABLE
- FIBER PATCH CABLES Tx/Tx
- CAT 5E CABLE
- FIBER PATCH CABLES Tx/Rx CROSSOVER
- EXISTING FIBER PATCH CABLES

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 (T R T R) 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. 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.
2. NO NEW SPLICING OR PATCHING AT THIS COMMUNICATION NODE SITE. SHEET UPDATED TO REFLECT REVISED PORT DESTINATIONS TO PATCH CHANGES AT OTHER LOCATIONS.

COMMUNICATION NODE 270008.7

REFER TO SHEET 599 FOR COMMUNICATIONS OVERVIEW

CIP: 540007 - 100005
PID NUMBER: 14522

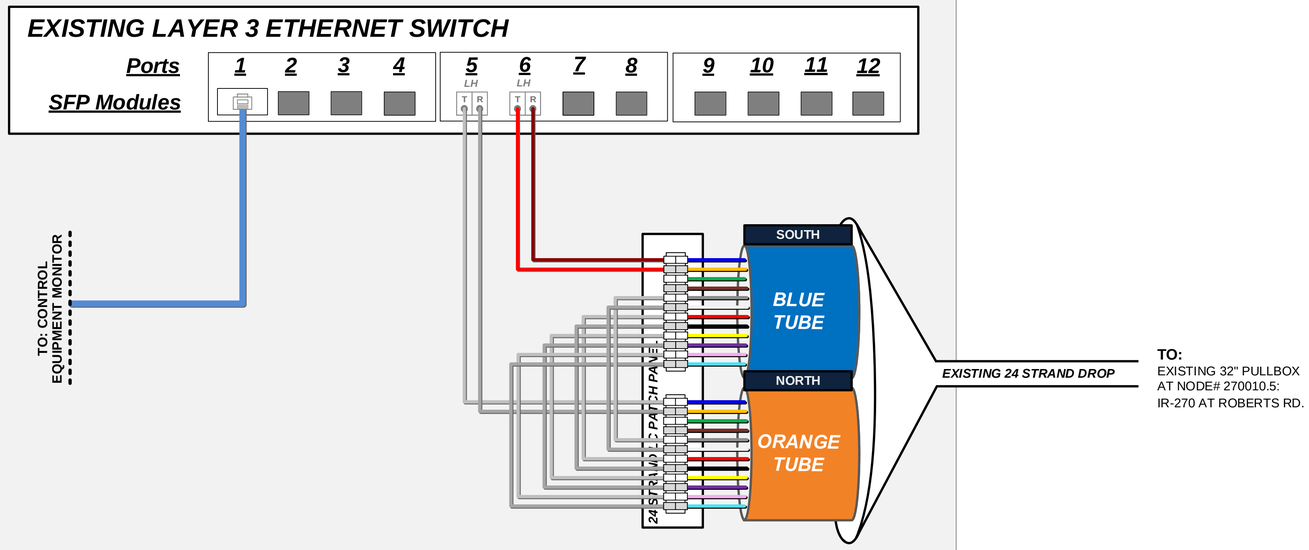
EXISTING COMMUNICATION NODE# 270008.7: IR-270 AT IR-70

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

906
911

Connections to Existing Nodes.vsd - 270008.7 layout - last saved 11/28/2018 11:05:32 AM - printed: 11/28/2018 11:05:32 AM

COMMUNICATION NODE EQUIPMENT CABINET (#2)



ETHERNET SWITCH PORT DESTINATION

PORT 5: EXISTING COMMUNICATION NODE# 270012.6: IR-270 AT CEMETERY RD.

PORT 6: PROPOSED COMMUNICATION NODE# 270009.3: IR-270 AT TRABUE RD.
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

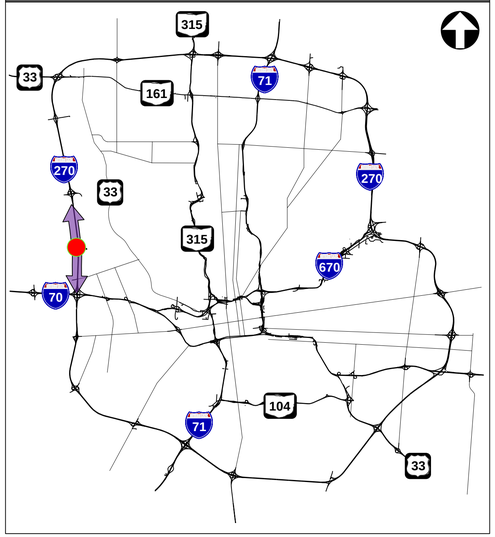
FIBER SPLICING (DARK/LIGHT – PROPOSED/EXISTING)

- 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



NOTES:

1. NO NEW SPLICING OR PATCHING AT THIS COMMUNICATION NODE SITE. SHEET UPDATED TO REFLECT REVISED PORT DESTINATIONS TO PATCH CHANGES AT OTHER LOCATIONS.

COMMUNICATION NODE 270010.5

REFER TO SHEET 605 FOR COMMUNICATIONS OVERVIEW

CIP: 540007 - 100005
PID NUMBER: 14522

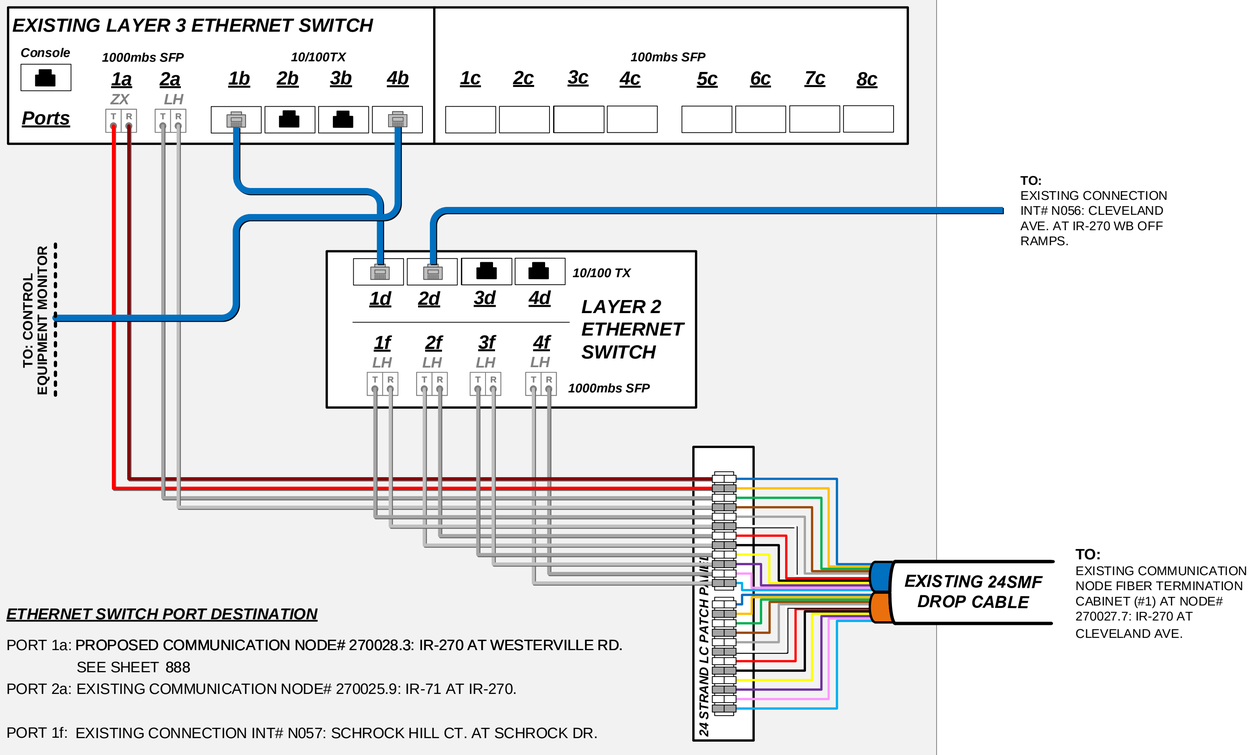
EXISTING COMMUNICATION NODE# 270010.5: IR-270 AT ROBERTS RD.

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

907
911

Connections to Existing Nodes.vsd - 270010.5 layout ~ last saved 11/28/2018 11:05:32 AM ~ printed: 11/28/2018 11:05:32 AM

COMMUNICATION NODE EQUIPMENT CABINET (#2)



TO:
EXISTING CONNECTION INT# N056: CLEVELAND AVE. AT IR-270 WB OFF RAMPS.

TO:
EXISTING COMMUNICATION NODE FIBER TERMINATION CABINET (#1) AT NODE# 270027.7: IR-270 AT CLEVELAND AVE.

ETHERNET SWITCH PORT DESTINATION

PORT 1a: PROPOSED COMMUNICATION NODE# 270028.3: IR-270 AT WESTERVILLE RD.
SEE SHEET 888

PORT 2a: EXISTING COMMUNICATION NODE# 270025.9: IR-71 AT IR-270.

PORT 1f: EXISTING CONNECTION INT# N057: SCHROCK HILL CT. AT SCHROCK DR.

PORT 2f: EXISTING CONNECTION INT# N049: CLEVALAND AVE. AT SCHROCK DR.

PORT 3f: EXISTING CONNECTION INT# N051: CLEVALAND AVE. AT CORPORATE EXCHANGE DR.

PORT 4f: EXISTING CONNECTION INT# N050: CLEVALAND AVE. AT COMMUNITY PARK DR.

PORT 2d: EXISTING CONNECTION INT# N056: CLEVELAND AVE. AT IR-270 WB OFF RAMPS.

LEGEND

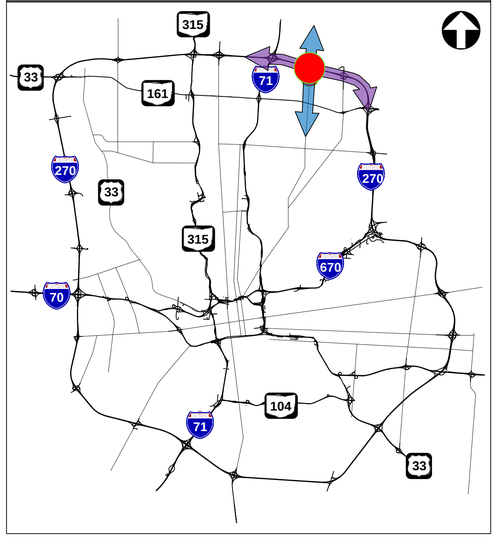
EQUIPMENT CABLE
- FIBER PATCH CABLES Tx/Tx
- CAT 5E CABLE
- FIBER PATCH CABLES Tx/Rx CROSSOVER
- EXISTING FIBER PATCH CABLES

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 TO PATCH CHANGES AT OTHER LOCATIONS.

COMMUNICATION NODE 270027.7

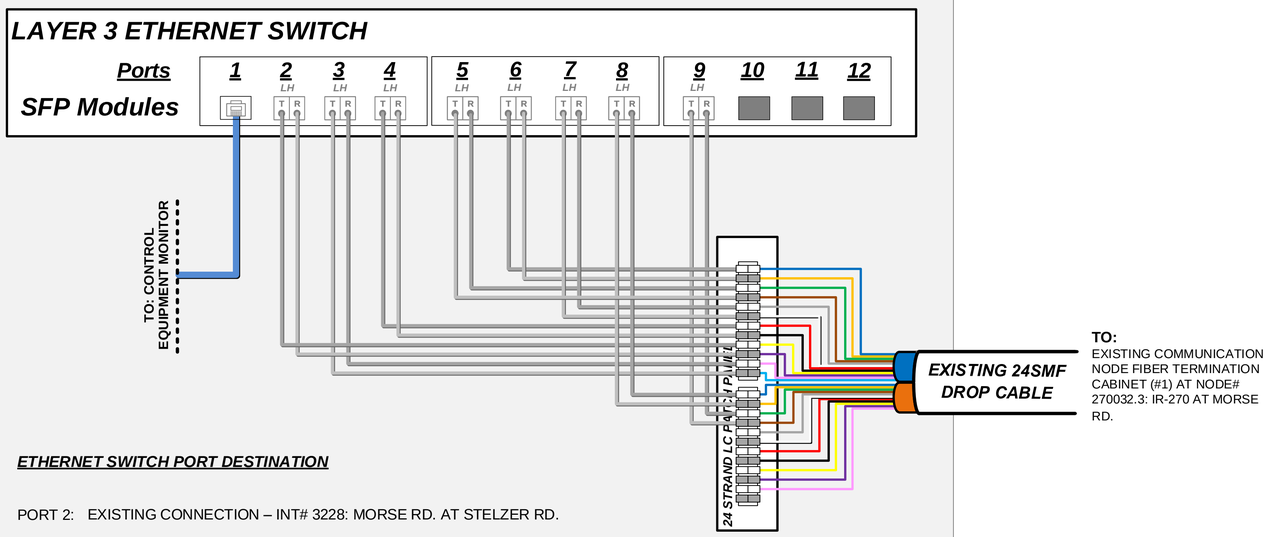
CIP: 540007 - 100005
PID NUMBER: 14522

EXISTING COMMUNICATION NODE# 270027.7: IR-270 AT CLEVELAND AVE.

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

Connections to Existing Nodes.vsd - 270027.7 layout - last saved 11/28/2018 11:05:32 AM - printed: 11/28/2018 11:05:32 AM

COMMUNICATION NODE EQUIPMENT CABINET (#2)



ETHERNET SWITCH PORT DESTINATION

PORT 2: EXISTING CONNECTION – INT# 3228: MORSE RD. AT STELZER RD.

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: EXISTING CONNECTION – COMMUNICATION NODE 270028.3: IR-270 AT WESTERVILLE RD.

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.

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

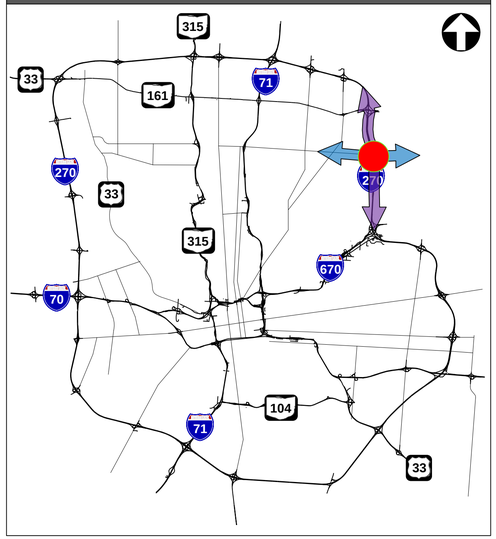
FIBER SPLICING (DARK/LIGHT – PROPOSED/EXISTING)

- 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 (T R) 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 TO PATCH CHANGES AT OTHER LOCATIONS.

COMMUNICATION NODE 270032.3

CIP: 540007 - 100005
PID NUMBER: 14522

EXISTING COMMUNICATION NODE# 270032.3: IR-270 AT MORSE RD.

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

Connections to Existing Nodes.vsd - 270032.3 layout - last saved 11/28/2018 11:05:32 AM - printed: 11/28/2018 11:05:32 AM

NO WORK TO BE PERFORMED

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

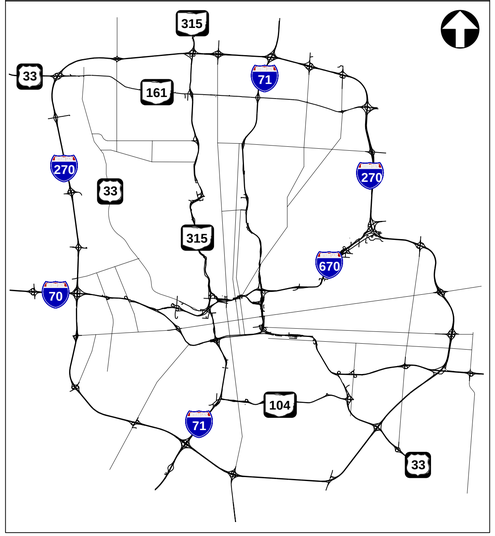
FIBER SPLICING (DARK/LIGHT – PROPOSED/EXISTING)

- 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. ORIGINAL DESIGN CALLED FOR NEW COMMUNICATIONS LINKS WHICH ARE BEING NON-PERFORMED DUE TO ISSUES WITH EXISTING FIBER OPTIC CABLE ALONG GAHANNA FOC TRUNK 5.

COMMUNICATION NODE 270037.4

CIP: 540007 - 100005
PID NUMBER: 14522

EXISTING COMMUNICATION NODE# 270037.4: IR-270 AT HAMILTON RD.

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

910
911

Connections to Existing Nodes.vsd - 270037.4 layout ~ last saved 11/28/2018 11:05:32 AM ~ printed: 11/28/2018 11:05:32 AM

EXISTING 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		LH	LH		LH	LH	LH					
		T R	T R		T R	T R	T R					

TO: CONTROL EQUIPMENT MONITOR

24 STRAND LC PATCH PANEL

EXISTING 24SMF DROP CABLE[1]

24 STRAND LC PATCH PANEL

EXISTING COMMUNICATION NODE# 270037.4: IR-270 AT HAMILTON RD.

ETHERNET SWITCH PORT DESTINATION

PORT 2: EXISTING CONNECTION – INT# 3080: E. BROAD ST. AT TAYLOR STATION RD.

PORT 3: EXISTING CONNECTION – INT# 3081: E. BROAD ST. AT McNAUGHTEN RD.

PORT 5: EXISTING CONNECTION – COMMUNICATION NODE 270043.0: IR-70 AT IR-270
SEE SHEET 898

PORT 6: EXISTING CONNECTION – COMMUNICATION NODE 270037.4: IR-270 AT HAMILTON RD.
SEE SHEET 910

PORT 7: INT# SIG4815: TAYLOR RD. AT TAYLOR STATION RD.
SEE SHEET 855

EXISTING COMMUNICATION NODE FIBER TERMINATION CABINET (#1)

TO:
EXISTING 32" PULLBOX AT NODE# 270039.5:
IR-270 AT E. BROAD ST.

EXISTING 144SMF DROP CABLE (CTSS & DoT TRUNK)[2]

EXISTING 24SMF DROP CABLE (I-270 BACKBONE)[2]

CTSS 144 STRAND LC PATCH PANEL

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

DoT 144 STRAND LC PATCH PANEL

EXISTING CTSS 24 STRAND LC PATCH PANEL

NORTH
- BLUE TUBE

SOUTH
- ORANGE TUBE

LEGEND

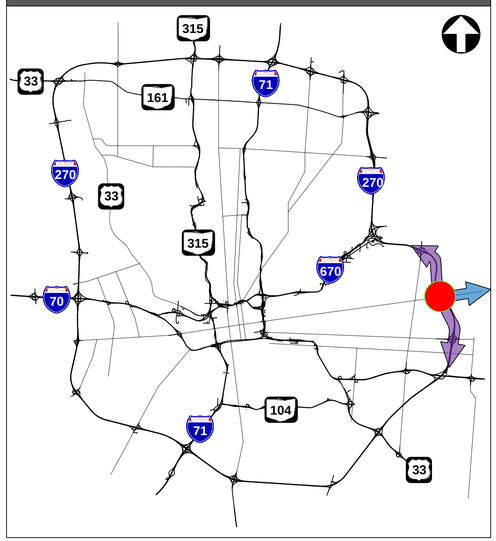
EQUIPMENT CABLE
- FIBER PATCH CABLES Tx/Tx
- CAT 5E CABLE
- FIBER PATCH CABLES Tx/Rx CROSSOVER
- EXISTING FIBER PATCH CABLES

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



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.

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.

REFER TO SHEET **530** FOR QUANTITIES FOR THE PROPOSED WORK SHOWN ABOVE.

COMMUNICATION NODE 270039.5
REFER TO SHEET 617 FOR COMMUNICATIONS OVERVIEW

CIP: 540007 - 100005
PID NUMBER: 14522

EXISTING COMMUNICATION NODE# 270039.5: IR-270 AT E. BROAD ST.

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

911
911

Connections to Existing Nodes.vsd - 270039.5 layout ~ last saved 11/28/2018 11:05:32 AM ~ printed: 11/28/2018 11:05:32 AM