STATE OF OHIO
DEPARTMENT OF TRANSPORTATION

D06 WRONG WAY DETECTION

VARIOUS LOCATIONS

FRANKLIN COUNTY, FAIRFIELD COUNTY

LOCATION MAP

LATITUDE: 39°57'45" LONGITUDE: -82°59'53"

PORTION TO BE IMPROVED
INTERSTATE HIGHWAY
FEDERAL ROUTES
STATE ROUTES
COUNTY & TOWNSHIP ROADS
OTHER ROADS

INDEX OF SHEETS:

FEDERAL PROJECT NUMBER

E220547

RAILROAD INVOLVEMENT

NONE

PROJECT DESCRIPTION

INSTALLATION OF WRONG WAY DETECTION CAMERAS AT VARIOUS EXIT RAMPS THROUGHOUT ODOT DISTRICT 6 AND DISTRICT 5

EARTH DISTURBED AREAS

*PROJECT EARTH DISTURBED AREA: 0.3 ACRES **
*ESTIMATED CONTRACTOR EARTH DISTURBED AREA: 0.0 ACRES **
NOTICE OF INTENT EARTH DISTURBED AREA: 0.3 ACRES (NOI NOT REQUIRED)
** 31 SEPARATE SITE (NOT CONTIGUOUS)*
** ROUTINE MAINTENANCE PROJECT*

LIMITED ACCESS

THIS IMPROVEMENT IS ESPECIALLY DESIGNED FOR THROUGH TRAFFIC AND HAS BEEN DECLARED A LIMITED ACCESS HIGHWAY OR FREEWAY BY ACTION OF THE DIRECTOR IN ACCORDANCE WITH THE PROVISIONS OF SECTION 5511.02 OF THE OHIO REVISED CODE.

2023 SPECIFICATIONS

THE STANDARD SPECIFICATIONS OF THE STATE OF OHIO, DEPARTMENT OF TRANSPORTATION, INCLUDING SUPPLEMENTAL SPECIFICATIONS LISTED IN THE PLANS AND CHANGES LISTED IN THE PROPOSAL SHALL GOVERN THIS IMPROVEMENT.

I HEREBY APPROVE THESE PLANS AND DECLARE THAT THE MAKING OF THIS IMPROVEMENT WILL NOT REQUIRE THE CLOSING TO TRAFFIC OF THE HIGHWAY AND THAT PROVISIONS FOR THE MAINTENANCE AND SAFETY OF TRAFFIC WILL BE AS SET FORTH ON THE PLANS AND ESTIMATES.

Anthony C. Turowski, P.E.
District 06 Deputy Director

Jack Marchbanks, PhD
Director, Department of Transportation

FOR CITY OF COLUMBUS SIGNATURES, PLEASE SEE SHEET P.1A

DESIGN EXCEPTIONS

NONE REQUIRED

ADA DESIGN WAIVERS

NONE REQUIRED

UNDERGROUND UTILITIES
Contact Two Working Days Before You Dig
OHIO811.org Before You Dig
OHIO811, 8-1-1, or 1-800-362-2764
(Non members must be called directly)

PLAN PREPARED BY:

WOOLPERT
ARCHITECTURE | ENGINEERING | GEOSPATIAL

WOOLPERT, INC.
4454 IDEA CENTER BLVD.
DAYTON, OH 45430

STANDARD CONSTRUCTION DRAWINGS							CITY OF COLUMBUS STD. DWG.		SUPPLEMENTAL SPECIFICATIONS		SPECIAL PROVISIONS
MGS-1.1	7/16/21	ITS-14.10	7/19/24	TC-41.20	10/18/13		4164	10/1/20	800-2023	7/19/24	
MGS-2.1	1/19/18	ITS-14.11	7/19/24	TC-41.30	4/21/23				804	1/19/24	
MGS-4.2	7/19/13	ITS-14.20	7/19/24	TC-41.40	10/18/13				809	7/19/24	
MGS-5.2	7/15/16	ITS-14.50	7/19/24	TC-41.41	7/19/19				832	7/21/23	
MGS-5.3	7/15/16	ITS-15.10	7/19/24	TC-41.50	10/18/13				904	7/15/22	
		ITS-15.11	7/19/24	TC-42.20	10/18/13				909	7/19/24	
HL-30.11	7/21/23	ITS-18.00	7/16/21	TC-52.10	10/18/13						
HL-30.21	4/17/20	ITS-50.10	7/15/22	TC-52.20	1/15/21						
HL-30.22	1/15/21	ITS-50.11	7/19/24	TC-61.30	7/19/24						
		ITS-50.12	7/19/24	TC-65.10	1/17/14						
ITS-10.10	7/19/24			TC-65.11	1/19/24						
ITS-10.11	7/19/24	MT-95.31	7/19/19	TC-73.20	7/19/24						
ITS-11.10	7/19/24	MT-98.28	1/17/20	TC-81.11	1/19/24						
ITS-12.10	7/15/22			TC-84.20	1/19/24						
ITS-12.50	7/19/24	TC-17.11	1/19/24	TC-84.21	10/18/13						
ITS-13.10	7/19/24	TC-21.11	7/16/21								

ENGINEER'S SEAL

STATE OF OHIO
JONATHAN G. WILEY
E-54544
REGISTERED
PROFESSIONAL ENGINEER

FLOODPLAIN INFORMATION

FIRM PANEL NUMBER, FLOOD ZONE, EFFECTIVE DATE OF FIRM, BASE FLOOD INFORMATION AND FLOOD PLAIN IMPACTS FOR EACH OF THE 31 SEPARATE SITES ARE SUMMARIZED IN TABLE ON SHEET P.2A.

THERE IS NO FILL OR STRUCTURES PROPOSED IN FLOODWAY.

NO FILL WILL BE ADDED IN THE 100-YEAR FLOODPLAIN

STREAM CORRIDOR PROTECTION ZONE

NO PROPOSED WORK AT THE 31 SITES IS LOCATED WITHIN A STREAM CORRIDOR PROTECTION ZONE.

3970-E

TITLE SHEET

DESIGN AGENCY
WOOLPERT
4454 IDEA CENTER BLVD.
DAYTON, OH 45430
T 937-461-5660
F 937-461-0743

DESIGNER AC
REVIEWER JGW 09/13/24
PROJECT ID 117258
SHEET P.1 TOTAL 71

D06 WRONG WAY DETECTION

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 9/18/2024 TIME: 5:24:54 PM USER: Saldana
G:\DE\Clients\ODOT\Safety Design Projects 112342\Task 9 D6 Wrong Way Detection PID 117258\117258400-Engineering\Roadway\Sheets\117258_GT001.dgn

ITEM 625 - CONDUIT, JACKED OR DRILLED, 725.04, 3", AS PER PLAN

CONDUIT IS JACKED OR DRILLED UNDER PAVEMENT TO MINIMIZE DISRUPTION TO TRAFFIC AND THE PAVEMENT ITSELF. THIS INSTALLATION WILL CROSS UNDERGROUND UTILITIES AS SHOWN ON THE PLANS. THE CONTRACTOR SHALL ACCURATELY IDENTIFY THE PROPOSED LOCATION AND ROUTING OF THE CONDUIT TO BE JACKED OR DRILLED AS SHOWN IN THE PLANS.

THE CONTRACTOR SHALL IDENTIFY ALL CROSSINGS BASED ON THE FIELD MARKING OF UNDERGROUND UTILITY LOCATION AND PLANS. THE CONTRACTOR SHALL PERFORM A TEST HOLE AT EACH CROSSING TO VERIFY LOCATION AND DEPTH OF EXISTING UNDERGROUND UTILITY PRIOR TO JACKED OR DRILLED INSTALLATION OF CONDUIT.

WHEN CROSSING UNDERGROUND UTILITIES, THE CONTRACTOR MUST MAINTAIN A MINIMUM OF 12 INCH VERTICAL CLEARANCE WHEN JACKING OR DRILLING CONDUIT. WHEN 12 INCH CLEARANCE CANNOT BE MAINTAINED, THE CONDUIT MAY BE INSTALLED IN A TRENCH WITHIN THE VICINITY OF THE EXISTING UTILITY AS SHOWN IN ODOT TRAFFIC STANDARD CONSTRUCTION DRAWING HL-30.22 AND ITS-14-10.

THE COST FOR RESTORATION OF IMPACTED SIDEWALK AND OTHER PAVED SURFACES SHALL BE INCIDENTAL TO THE COST OF CONDUIT, 3", JACKED OR DRILLED, AS PER PLAN.

THE COST FOR TRENCH AND INSTALLATION OF CONDUIT IN THESE AREAS SHALL BE INCIDENTAL TO THE COST OF CONDUIT, 3", JACKED OR DRILLED, AS PER PLAN. THE CONTRACTOR WILL BE COMPENSATED FOR EACH TEST HOLE EXCAVATION ACCORDING TO THE BID PRICE FOR ITEM 632 TEST HOLE PERFORMED, CONDUIT, AS PER PLAN.

ITEM 632 - TEST HOLE PERFORMED, CONDUIT, AS PER PLAN

IT IS ANTICIPATED THAT THE CONTRACTOR WILL ENCOUNTER UNDERGROUND UTILITIES WHILE INSTALLING JACKED OR DRILLED CONDUIT.

IF, AFTER ACCURATELY IDENTIFYING THE PROPOSED LOCATION OF THE CONDUIT, AS SHOWN IN THE PLANS AND AFTER MODIFYING THAT LOCATION, IF NECESSARY, BASED ON THE FIELD MARKING OF UNDERGROUND UTILITY LOCATION, THE CONTRACTOR DISCOVERS A UTILITY CONFLICT DURING THE JACKED OR DRILLED OPERATION, THE CONTRACTOR WILL BE COMPENSATED FOR EACH PARTIAL EXCAVATION ACCORDING TO THE BID PRICE.

BEFORE THE CONTRACTOR BEGINS THE EXCAVATION AT THE MODIFIED LOCATION, THE CONTRACTOR SHALL VERIFY THAT THERE WILL BE NO OVERHEAD UTILITY CONFLICTS RESULTING FROM THE NEW CONDUIT LOCATION. NEW CONDUIT LOCATIONS ARE TO BE APPROVED BY THE ENGINEER.

THE WORK WILL INCLUDE BACKFILLING, COMPACTING, AND RESTORATION OF THE EXCAVATION TO THE SITE'S ORIGINAL CONDITION.

EXCAVATIONS SHALL NOT BE LEFT OPEN OVERNIGHT.

THE FOLLOWING QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY:

ITEM 632 TEST HOLE PERFORMED, CONDUIT, AS PER PLAN 44 EACH

PAYMENT FOR THIS ITEM SHALL BE AT THE UNIT PRICE BID PER EACH ITEM 632 TEST HOLE PERFORMED, CONDUIT, AS PER PLAN TO BE USED AT THE DIRECTION OF THE ENGINEER.

ITEM 632 - TEST HOLE PERFORMED, WORK PADS AND FOUNDATIONS, AS PER PLAN

IT IS ANTICIPATED THAT THE CONTRACTOR WILL ENCOUNTER UNDERGROUND UTILITIES WHILE EXCAVATING FOR ITS WORK PADS, OR POLE FOUNDATIONS FOR ITS CAMERAS.

IF, AFTER ACCURATELY IDENTIFYING THE PROPOSED LOCATION OF THE WORK, AS SHOWN IN THE PLANS AND AFTER MODIFYING THAT LOCATION, IF NECESSARY, BASED ON THE FIELD MARKING OF UNDERGROUND UTILITY LOCATION, THE CONTRACTOR DISCOVERS A UTILITY CONFLICT DURING THE EXCAVATION OPERATION, THE CONTRACTOR WILL BE COMPENSATED FOR EACH PARTIAL FOUNDATION EXCAVATION ACCORDING TO THE BID PRICE.

BEFORE THE CONTRACTOR BEGINS THE EXCAVATION AT THE MODIFIED LOCATION, THE CONTRACTOR SHALL VERIFY THAT THERE WILL BE NO OVERHEAD UTILITY CONFLICTS RESULTING FROM THE NEW WORK LOCATION. NEW WORK LOCATIONS ARE TO BE APPROVED BY THE ENGINEER.

THE WORK WILL INCLUDE BACKFILLING, COMPACTING, AND RESTORATION OF THE EXCAVATION TO THE SITE'S ORIGINAL CONDITION.

EXCAVATIONS SHALL NOT BE LEFT OPEN OVERNIGHT.

THE FOLLOWING QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY:

ITEM 632 TEST HOLE PERFORMED, WORK PADS AND FOUNDATIONS, AS PER PLAN 42 EACH

PAYMENT FOR THIS ITEM SHALL BE AT THE UNIT PRICE BID PER EACH ITEM 632 TEST HOLE PERFORMED, WORK PADS AND FOUNDATIONS TO BE USED AT THE DIRECTION OF THE ENGINEER.

ITEM 809 - ITS CABINET, GROUND MOUNTED, AS PER PLAN

IN ADDITION TO THE REQUIREMENTS OF SS 809/SS 909, THIS ITEM SHALL INCLUDE THE INSTALLATION OF A CONTROLLER WORK PAD FOR PROPOSED ITS DEVICES. REFERENCE SCD ITS-10.11.

CONSTRUCT WORK PAD PER DIMENSIONS FOUND IN THE FOLLOWING TABLE. FOR WORK PADS INCLUDING A CCTV POLE AND FOUNDATION, CONSTRUCT THE WORK PAD SEPARATELY FROM THE POLE/FOUNDATION.

ITEM 809 - ITS CABINET, GROUND MOUNTED, AS PER PLAN (CONT.)

THE FOLLOWING TABLE IDENTIFIES PROPOSED WORK PAD DIMENSIONS AND CCTV POLE TYPE (AS APPLICABLE):

LOC. #	WIDTH (W) (FT)	LENGTH (L) (FT)	POLE TYPE (WITHIN WORK PAD)
1	10	13	NO CCTV POLE
2	13	17	TC-81.11 DES. 8
3	13	17	TC-81.11 DES. 8
4	13	17	70 FT CCTV POLE
5	10	13	NO CCTV POLE
6	10	13	NO CCTV POLE
7	10	13	NO CCTV POLE
8	13	21	70 FT CCTV POLE
9	10	13	NO CCTV POLE
10	9	10	NO CCTV POLE
11	10	13	NO CCTV POLE
12			
13	10	13	NO CCTV POLE
14 (1)	10	13	NO CCTV POLE
14 (2)	10	20	ENCOMPASS EX. CCTV
15	13	17	TC-81.11 DES. 8
16			
17			
18			
19	6	18	NO CCTV POLE
20	10	13	NO CCTV POLE
21			
22	10	13	NO CCTV POLE
23			
24	10	13	NO CCTV POLE
25	10	13	NO CCTV POLE
26	10	13	NO CCTV POLE
27	10	13	NO CCTV POLE
28	13	17	TC-81.11 DES. 8
29	10	13	NO CCTV POLE
30	10	13	NO CCTV POLE
31	10	13	NO CCTV POLE

PAYMENT FOR EACH COMPLETE, INSTALLED, AND ACCEPTED WORK PAD SHALL BE MADE AT THE UNIT BID PRICE FOR ITEM 633, CONTROLLER WORK PAD, AS PER PLAN.

1342-8 ITEM 809E24500: CONDUIT, 4", MULTICELL, HDPE WITH 4 – 1" INNERDUCTS
ITEM 809E24000: CONDUIT, MULTICELL, JACKED OR DRILLED, 4" AS PER PLAN

DESCRIPTION

THIS CONDUIT IS INTENDED FOR THE USE IN UNDERGROUND OR ENCASED SITUATIONS REQUIRING MORE THAN ONE SINGLE CONDUIT. THIS INCLUDES THE MAIN CONDUIT RACEWAY ALONG THE FREEWAY, CONNECTION FROM PULL BOXES TO THE ROAD SIDE CABINETS AND FOR RUNS OF CONDUIT FOR MULTIPLE PURPOSES, E.G., AT RAMP METER INSTALLATIONS, FOR LOOP LEAD-IN CABLE, SIGNALS CABLE FOR RAMP METER DISPLAYS, SIGNAL CABLE FOR RAMP METER SIGNING FLASHERS & ILLUMINATION AND POWER. THE CONTRACTOR SHALL PLUG ALL UNUSED CELLS WITH CONDUIT CAPS TO ASSURE AIR AND WATER INTEGRITY OF EACH INDIVIDUAL INNERDUCT.

MATERIALS

THE TRAFFIC SURVEILLANCE RACEWAY SHALL CONSIST OF A FACTORY-ASSEMBLED SYSTEM OF (4) INNERDUCTS ASSEMBLED WITHIN A PROTECTIVE OUTER DUCT HIGH DENSITY POLYETHYLENE OR APPROVED EQUIVALENT. THE INNERDUCTS SHALL BE A MINIMUM 1 INCH INSIDE DIAMETER. THE OUTER DUCT SHALL BE NOMINAL 4 INCH INSIDE DIAMETER AND A MAXIMUM OUTSIDE DIAMETER OF 4.8 INCH.

1342-8 ITEM 809E24500: CONDUIT, 4", MULTICELL, HDPE WITH 4 – 1" INNERDUCTS (CON'T)
ITEM 809E24000: CONDUIT, MULTICELL, JACKED OR DRILLED, 4" (CON'T)

THE HDPE CONDUIT SHALL BE COILABLE ON REELS. WHERE INNERDUCT(S) WITHIN A MULTI-CELL DUCT ARE TO REMAIN EMPTY, ONE FLAT WOVEN POLYESTER TAPE WITH 2500 LB PULLING STRENGTH AND FOOTAGE MARKS SHALL BE INSTALLED IN EACH OF THE OPEN INNERDUCTS, THE ROPE WILL REMAIN TO BE USED FOR A FUTURE CABLE INSTALLATION. ALSO, EACH INNERDUCT SHALL BE PLUGGED TO MAINTAIN THE AIR AND WATER INTEGRITY. IN ADDITION, THE OUTER DUCT SHALL BE CAPPED TO MAINTAIN THE AIR AND WATER INTEGRITY OF THE ENTIRE SYSTEM.

INSTALLATION IN TRENCH

INSTALLATION WILL BE IN 30" DEEP TRENCH, DRILLED OR PLOWED TO A MINIMUM OF 30" DEEP, ENCASED INSIDE CONCRETE BARRIER WALL OR AS NOTED ON THE PLANS.

THE HDPE CONDUIT SHALL BE INSTALLED IN CONTINUOUS LENGTHS WITHOUT JOINTS OR COUPLINGS BETWEEN PULL BOXES OR JUNCTION BOXES.

WHEN ENTERING A PULL BOX, CONDUIT SHALL BE BROUGHT IN 3 INCHES MINIMUM AND A MAXIMUM OF 6 INCHES FROM THE EDGE OF THE PULL BOX AND KNOCKOUT.

JACKED OR DRILLED INSTALLATION

THIS INSTALLATION WILL CROSS UNDERGROUND UTILITIES AS SHOWN ON THE PLANS. THE CONTRACTOR SHALL ACCURATELY IDENTIFY THE PROPOSED LOCATION AND ROUTING OF THE CONDUIT TO BE JACKED OR DRILLED AS SHOWN IN THE PLANS.

FOR JACKED OR DRILLED INSTALLATION, THE CONTRACTOR SHALL IDENTIFY ALL CROSSINGS BASED ON THE FIELD MARKING OF UNDERGROUND UTILITY LOCATION AND PLANS. THE CONTRACTOR SHALL PERFORM A TEST HOLE AT EACH CROSSING TO VERIFY LOCATION AND DEPTH OF EXISTING UNDERGROUND UTILITY PRIOR TO JACKED OR DRILLED INSTALLATION.

WHEN CROSSING UNDERGROUND UTILITIES, THE CONTRACTOR MUST MAINTAIN A MINIMUM OF 12 INCH VERTICAL CLEARANCE WHEN JACKING OR DRILLING CONDUIT. WHEN 12 INCH CLEARANCE CANNOT BE MAINTAINED, THE CONDUIT MAY BE INSTALLED IN A TRENCH WITHIN THE VICINITY OF THE EXISTING UTILITY AS SHOWN IN ODOT TRAFFIC STANDARD CONSTRUCTION DRAWING HL-30.22 AND ITS-14-10.

THE COST FOR RESTORATION OF IMPACTED SIDEWALK AND OTHER PAVED SURFACES SHALL BE INCIDENTAL TO THE COST OF CONDUIT, MULTICELL, JACKED OR DRILLED, 4" AS PER PLAN.

THE COST FOR TRENCH AND INSTALLATION OF CONDUIT IN THESE AREAS SHALL BE INCIDENTAL TO THE COST OF CONDUIT, 4", MULTICELL, HDPE, JACKED OR DRILLED, AS PER PLAN. THE CONTRACTOR WILL BE COMPENSATED FOR EACH TEST HOLE EXCAVATION ACCORDING TO THE BID PRICE FOR ITEM 632 TEST HOLE PERFORMED, CONDUIT, AS PER PLAN.

METHOD OF MEASUREMENT

THE CONDUIT WILL BE MEASURED BY THE AMOUNT OF CONDUIT IN FEET FURNISHED AND INSTALLED, MEASURED FROM CENTER-TO CENTER OF PULL BOXES, FOUNDATION, ETC., AND WILL INCLUDE ALL FITTING AND APPURTENANCES, JOINTS, BENDS, GROUNDS, AND CONCRETE ENCASEMENT WHERE SPECIFIED.

BASIS OF PAYMENT

THE PAYMENT FOR THESE ITEMS WILL BE MADE FOR THE ACCEPTED LINER FOOT QUANTITIES AT THE CONTRACT BID PRICE.

GENERAL NOTES

D06 WRONG WAY DETECTION

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 9/18/2024 TIME: 5:25:09 PM USER: Saldana
G:\DE\Clients\ODOT\Safety Design Projects 112342\Task 9 D6 Wrong Way Detection PID 117258\117258\400-Engineering\Roadway\Sheets\117258_GN003.dgn

DESIGN AGENCY
WOOLPERT
ARCHITECTURE ENGINEERING GEOSPATIAL
4454 IDEA CENTER BLVD.
DAYTON, OH 45430
T 937-461-5660
F 937-461-0743

DESIGNER AC
REVIEWER JGW 07/19/24
PROJECT ID 117258
SHEET P.5 TOTAL 71

1342-9 UNDERGROUND WARNING/MARKING TAPE

THE CONTRACTOR SHALL FURNISH AND INSTALL THIS ITEM ACCORDING TO ODOT SUPPLEMENTAL SPECIFICATIONS 804/904 AND CMS 725.22.

1342-15 MAINTAINING ITS DURING CONSTRUCTION

THE CONTRACTOR SHALL MAINTAIN ALL PREEXISTING OR NEWLY INSTALLED PERMANENT ITS/TRAFFIC DEVICES AND INFRASTRUCTURE DURING CONSTRUCTION ACCORDING TO ODOT SUPPLEMENTAL SPECIFICATION 809.

1342-16 CCTV CONCRETE POLE WITH LOWERING UNIT, 70 FEET

THE CONTRACTOR SHALL FURNISH AND INSTALL THIS ITEM ACCORDING TO ODOT SUPPLEMENTAL SPECIFICATION 809, AS WELL AS ANY STANDARD CONSTRUCTION DRAWINGS NOTED ON THE PLANS. IN ADDITION, THE CONTRACTOR SHALL INCLUDE A 1/2" ISOLATION JOINT MATERIAL BETWEEN THE CONCRETE POLE AND CONCRETE WORK PAD. THE CONTRACTOR SHALL PROVIDE 1 COMPLETE LOWERING UNIT TOOL ASSEMBLY PER CAMERA FOR LOWERING CAMERAS PER SUPPLEMENTAL SPECIFICATION 809 TO ODOT AT THE END OF THE PROJECT.

ODOT AND THE OFFICE OF GEOTECHNICAL ENGINEERING HAVE OBTAINED AND ANALYZED THE SOIL BORING DATA FOR THIS SITE, LOCATED AT LOCATION #4 AND LOCATION #8 (SEE TABLE BELOW), AND DETERMINED THAT THE POLE HEIGHT SHALL BE 70 FT ABOVE GROUND AND THE EMBEDMENT DEPTH SHALL BE 12 FT.

MIXED COHESIVE (SILT AND CLAY) AND GRANULAR (SAND AND GRAVEL) SOIL CONDITIONS, ALL BELOW THE LOCAL GROUND WATER TABLE WERE ENCOUNTERED IN THE NEARBY SOIL BORINGS. GRANULAR SOIL LAYERS WILL BE SATURATED AND SUBJECT TO POTENTIAL COLLAPSE AND MINING DURING DRILLING OPERATIONS. DRILLING BY THE 524.04.B WET CONSTRUCTION METHOD OR 524.04.C TEMPORARY CASING CONSTRUCTION METHOD SHOULD BE ANTICIPATED.

THE CONTRACTOR SHALL FURNISH/INSTALL POLES WITH THE CORRECT LENGTH/EMBEDMENT AND ALL COUPLINGS, HANDHOLES, ETC., IN THE APPROPRIATE LOCATION ABOVE GROUND ACCORDING TO SCD ITS-12.10. THE CONTRACTOR MAY FURNISH/INSTALL LONGER OVERALL LENGTH POLES AT A DEEPER EMBEDMENT DEPTH IF IT IS MORE BENEFICIAL FOR MANUFACTURING, SHIPPING, ETC., AS LONG AS ALL ABOVE GROUND COMPONENTS MAINTAIN APPROPRIATE HEIGHT LEVEL. IF NEEDED DUE TO UNFORESEEN CIRCUMSTANCES ARISING WITH BEDROCK, ETC., AND WITH APPROVAL FROM THE ODOT PROJECT ENGINEER, THE CONTRACTOR MAY FIELD CUT AN APPROPRIATE AMOUNT FROM THE BASE OF THE CONCRETE POLE WHICH WOULD REQUIRE LESS EMBEDMENT DEPTH IN ORDER TO MAINTAIN APPROPRIATE LEVELS ABOVE GROUND. IF A POLE IS CUT, THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO NOT DAMAGE THE INTEGRITY OF THE POLE PER MANUFACTURER RECOMMENDATIONS AND ANY EXPOSED STEEL STRANDS SHALL BE COATED WITH EPOXY.

THE CONTRACTOR SHALL SUBMIT ALL POLE MANUFACTURER FABRICATION DRAWING SUBMITTALS, AS WELL AS INSTALLATION PROCEDURES AND BACKFILL MATERIAL, TO THE ODOT PROJECT ENGINEER FOR ACCEPTANCE BEFORE ORDERING.

PAYMENT FOR EACH POLE COMPLETE, INSTALLED, AND ACCEPTED CONCRETE POLE WITH LOWERING UNIT, SHALL BE MADE AT THE UNIT BID PRICE FOR ITEM 809, CCTV CONCRETE POLE WITH LOWERING UNIT, 70 FEET

ITEM 809E60070, EACH CCTV IP-CAMERA SYSTEM, WRONG WAY DETECTION

THE CONTRACTOR SHALL PROVIDE AND INSTALL A FIXED VIEW CAMERA CAPABLE OF WRONG WAY ANALYTICS PER SUPPLEMENTAL SPECIFICATION 809 AND 909.

THE CAMERA SHALL HAVE A VARIFOCAL LENS WITH ADJUSTMENT BETWEEN 4MM AND 13MM. THE CAMERA SHALL BE INSTALLED AS SHOWN ON THE PLANS AND ORIENTED AND FOCUSED TO VIEW THE EXIT RAMP AS MUCH AS POSSIBLE, UNLESS OTHERWISE NOTED. THE CONTRACTOR SHALL CONNECT THE CAMERAS TO THE ITS CABINET WITH AN OUTDOOR ETHERNET CABLE (SEPARATE PAY ITEM) AND RJ-45 CONNECTORS WHICH SHALL BE TERMINATED IN ACCORDANCE WITH TIA-EIA-568-B.

UPON INSTALLATION, THE CONTRACTOR SHALL INSTALL THE CAMERA AND CONNECT THE ETHERNET CABLE INTO THE ODOT NETWORK SWITCH PORT, AS INFORMED BY ODOT ITS. THE CONTRACTOR SHALL CALL THE ODOT ITS LAB TO VERIFY THE CAMERA CONNECTION AND VIEWS WHILE ON SITE INSTALLING THE CAMERA. THE CONTRACTOR SHALL ADJUST THE CAMERA ORIENTATION OR LENSES AS NEEDED FOR OPTIMAL VIEWS.

EROSION AND SEDIMENT CONTROL

ALL PUBLIC AGENCIES AND PRIVATE CONTRACTORS PERFORMING PAVEMENT-CUTTING OPERATIONS ON CITY OF COLUMBUS STREETS AND ROADWAYS SHALL PROTECT THE ENVIRONMENT FROM DISCHARGES CREATED BY THEIR PAVEMENT CUTTING OPERATIONS. NOTE THAT COLUMBUS CITY CODE 1145 PROHIBITS NON-STORMWATER DISCHARGE INTO THE CITY OF COLUMBUS SEWER SYSTEM, CURB INLETS AND ANY PART OF ITS MS4 (MUNICIPAL SEPARATE STORM SEWER SYSTEM). THE REQUIREMENT INCLUDES BUT IS NOT LIMITED TO WET OR DRY SAW-CUTTING, JACK HAMMERING, EXCAVATION EQUIPMENT USE, ETC.

THE PUBLIC AGENCY AND/OR PRIVATE CONTRACTOR WORK CREWS SHALL RECOVER AND DISPOSE OF DETRITUS, POLLUTED WATERS, OR OTHER SUCH DISCHARGES RESULTING FROM THEIR PAVEMENT CUTTING OPERATIONS AND PROTECT ALL STORM SEWER INLETS FROM RECEIVING ANY DISCHARGES FROM THE CONSTRUCTION OPERATIONS. THE AGENCY OR CONTRACTOR RESPONSIBLE FOR EACH PAVEMENT CUTTING ACTIVITY SHALL BE SOLELY LIABLE FOR NOTICE OF VIOLATIONS (NOV/S) AND FINES ISSUED BY CITY OF COLUMBUS AND/OR STATE OF OHIO AUTHORITIES.

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

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

SITE	LOCATION	LATITUDE	LONGITUDE	BORING TYPE	POLE LENGTH	FOUNDATION DEPTH	LENGTH
4	I-670 WB EXIT RAMP AT NEIL AVE.	39.973689	-83.009936	HISTORIC	70 FT.	12 FT.	82 FT.
8	I-70 WB EXIT RAMP AT S. CENTRAL AVE.	39.951256	-83.038903	HISTORIC	70 FT.	12 FT.	82 FT.

EROSION AND SEDIMENT CONTROL (CON'T.)

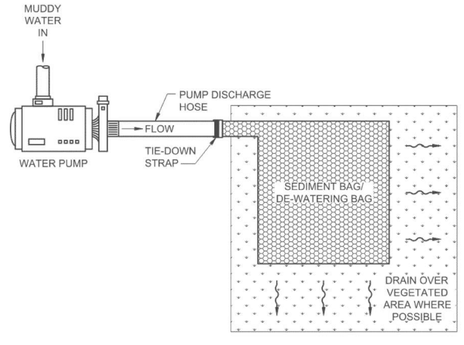
EROSION AND SEDIMENT CONTROL MEASURES SPECIFIC TO THIS SITE ARE TO BE PROVIDED BY ODOT SS-832. THE PROPOSED LAND DISTURBING ACTIVITIES WITHIN THE CITY OF COLUMBUS MUST COMPLY WITH ALL OF THE PROVISIONS OF THE DIVISION OF SEWERAGE AND DRAINAGE EROSION AND SEDIMENT CONTROL REGULATION.

ALL LAND DISTURBING ACTIVITIES SHALL BE SUBJECT TO INSPECTION AND SITE INVESTIGATION BY THE CITY OF COLUMBUS TO DETERMINE COMPLIANCE WITH CITY STANDARDS AND REGULATIONS. FAILURE TO COMPLY WITH THESE REGULATIONS MAY SUBJECT THE SITE TO ENFORCEMENT ACTION BY THE CITY. QUESTIONS REGARDING EROSION AND SEDIMENT CONTROL MAY BE REFERRED TO THE STORMWATER MANAGEMENT OFFICE AT 645-6311.

ON-SITE CONTACT:
PHONE:
FAX:
E-MAIL: OEPA NPDES GENERAL PERMIT NOI NUMBER: N/A
SITE IS TRIBUTARY TO : VARIOUS WATERCOURSES (MULTIPLE SITES)

THE PUMPING OR DIRECT DISCHARGE OF SEDIMENT-LADEN (MUDDY) WATER TO THE CITY'S SEWER SYSTEM OR RECEIVING STREAM IS A VIOLATION OF OHIO EPA AND CITY OF COLUMBUS REGULATIONS. ALL INLETS RECEIVING FLOW FROM RUNOFF, PUMPING ACTIVITIES, OR OTHER DIRECT DISCHARGES SHALL BE FITTED WITH AND INLET PROTECTION DEVICE THAT IS PROPERLY SIZED AND SECURED TO REDUCE THE DISCHARGE OF SEDIMENT INTO THE STORM SEWER AND RECEIVING STREAM. INLET PROTECTION IS REQUIRED ON ALL INLETS RECEIVING DISCHARGE REGARDLESS OF WHETHER OR NOT THE INLET IS TRIBUTARY TO ANY DOWNSTREAM EROSION AND SEDIMENT CONTROLS.

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



CITY OF COLUMBUS WATER GENERAL NOTES

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

WHEN CROSSING THE EXISTING WATER MAIN, AND LOW STRENGTH MORTAR (ITEM 613) IS TO BE USED AS BACKFILL, THE CONTRACTOR SHALL PROVIDE SIZE NO. 57 CRUSHED CARBONATE STONE (CCS) 1 FOOT BELOW TO 1 FOOT ABOVE THE EXISTING WATER MAIN.

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

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

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

ITEM 625 - PULL BOX, MISC.: PULL BOX, 12" X 18" (COC 725.06) TRAFFIC

CONTRACTOR TO PROVIDE PULL BOX OF THE SIZE AND TYPE SPECIFIED, IN ACCORDANCE WITH CITY OF COLUMBUS TRAFFIC STANDARDS.

PROVIDE THE BODY OF THE BOX AS OFONE PIECE CONSTRUCTION. PROVIDE SMOOTH SURFACES OF THE BOX AND COVER AND THE COVER WITH A MOLDED SLIP RESISTANT SURFACE. LABEL THE COVER IN CLEARLY LEGIBLE BLOCK LETTERS 1 INCH TO 2 INCHES (25 MM - 50 MM) IN HEIGHT INTEGRAL TO THE COVER WITH THE WORD "TRAFFIC" TO DESIGNATE THE CIRCUIT(S) CONTAINED. MATERIAL TYPE, INSTALLATION AND PLACEMENT TO BE IN ACCORDANCE WITH ODOT AND CITY OF COLUMBUS STANDARD SPECIFICATIONS.

PAYMENT WILL BE MADE AT THE UNIT BID PRICE OF EACH FOR ITEM 625 – PULL BOX, MISC.: PULL BOX, 12" X 18" (CITY OF COLUMBUS 725.06) TRAFFIC WHICH SHALL BE FULL COMPENSATION FOR ALL LABOR, MATERIALS, AND INCIDENTALS REQUIRED TO COMPLETE THIS ITEM IN A SATISFACTORY AND WORKMANLIKE MANNER.

GENERAL NOTES

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DESIGNER
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REVIEWER
JGW 07/19/24

PROJECT ID
117258

SHEET P.6 TOTAL 71

D06 WRONG WAY DETECTION

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 9/18/2024 TIME: 5:25:10 PM USER: Saldana
G:\DE\Clients\ODOT\Safety Design Projects 112342\Task 9 D6 Wrong Way Detection PID 117258\117258400-Engineering\Roadway\Sheets\117258_GN004.dgn

SHEET NUM.											PART.	ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
P.3	P.5	P.11	P.11B	P.42	P.68						01/SAF/21						
																ROADWAY	
												201	11000	LS		CLEARING AND GRUBBING	
					1						1	202	42206	1	EACH	ANCHOR ASSEMBLY REMOVED	
					350						350	606	15050	350	FT	GUARDRAIL, TYPE MGS	
					1						1	606	26150	1	EACH	ANCHOR ASSEMBLY, MGS TYPE E (MASH 2016)	
					2						2	606	26550	2	EACH	ANCHOR ASSEMBLY, MGS TYPE T	
																EROSION CONTROL	
515											515	659	00300	515	CY	TOPSOIL	
4,490											4,490	659	00500	4,490	SY	SEEDING AND MULCHING, CLASS 1	
141											141	659	00530	141	SY	SEEDING AND MULCHING, CLASS 3B	
0.4											0.4	659	20000	0.4	TON	COMMERCIAL FERTILIZER	
1											1	659	31000	1	ACRE	LIME	
12.5											12.5	659	35000	12.5	MGAL	WATER	
											1,000	832	30000	1,000	EACH	EROSION CONTROL	
																PAVEMENT	
				75							75	411	10000	75	CY	STABILIZED CRUSHED AGGREGATE	P.42
																TRAFFIC SIGNALS	
		177									177	625	00480	177	EACH	CONNECTION, UNFUSED PERMANENT	
		1,250									1,250	625	25408	1,250	FT	CONDUIT, 2", 725.051	
		956									956	625	25504	956	FT	CONDUIT, 3", 725.051	
		741									741	625	25903	741	FT	CONDUIT, JACKED OR DRILLED, 725.04, AS PER PLAN, 3"	P.5
		419									419	625	25910	419	FT	CONDUIT CLEANED AND CABLES REMOVED	
		5,126									5,126	625	29010	5,126	FT	TRENCH, 30" DEEP	
		48									48	625	30700	48	EACH	PULL BOX, 725.08, 18"	
		7									7	625	31506	7	EACH	PULL BOX REMOVED AND REPLACED	
		1									1	625	31600	1	EACH	PULL BOX, MISC.: PULL BOX, 12" X 18" (COC 725.06) TRAFFIC	P.6
		87									87	625	32000	87	EACH	GROUND ROD	
		5,126									5,126	625	36010	5,126	FT	UNDERGROUND WARNING/MARKING TAPE	
		1,068									1,068	632	29900	1,068	FT	MESSENGER WIRE, 7 STRAND, 1/4" DIAMETER WITH ACCESSORIES	
		9									9	632	64000	9	EACH	STRAIN POLE FOUNDATION	
	42										42	632	64951	42	EACH	TEST HOLE PERFORMED, WORK PADS AND FOUNDATIONS, AS PER PLAN	P.5
	44										44	632	64951	44	EACH	TEST HOLE PERFORMED, CONDUIT, AS PER PLAN	P.5
		2,746									2,746	632	68300	2,746	FT	POWER CABLE, 3 CONDUCTOR, NO. 6 AWG	
		74									74	632	68400	74	FT	POWER CABLE, 4 CONDUCTOR, NO. 6 AWG	
		3,014									3,014	632	69320	3,014	FT	POWER CABLE, 3 CONDUCTOR, NO. 2 AWG	
		3									3	632	70001	3	EACH	POWER SERVICE, AS PER PLAN (CONNECTION TO EXISTING CITY OF COLUMBUS POWER SERVICE)	P.25B
		5									5	632	70001	5	EACH	POWER SERVICE, AS PER PLAN (CONNECTION TO EXISTING CITY OF COLUMBUS TRAFFIC SIGNAL POWER METER CABINET)	P.25B
		5									5	632	70001	5	EACH	POWER SERVICE, AS PER PLAN (EXISTING ODOT POWER SERVICE, ODOT ITS CABINET)	P.25B
		7									7	632	70001	7	EACH	POWER SERVICE, AS PER PLAN (EXISTING ODOT POWER SERVICE)	P.25B
		1									1	632	70001	1	EACH	POWER SERVICE, AS PER PLAN (NEW CITY OF COLUMBUS POWER SERVICE)	P.25B
		16									16	632	70400	16	EACH	CONDUIT RISER, 2" DIAMETER	
		3									3	632	70600	3	EACH	CONDUIT RISER, 3" DIAMETER	
		8									8	632	86120	8	EACH	STRAIN POLE, TYPE TC-81.11, DESIGN 8	
		5									5	632	89300	5	EACH	WOOD POLE	
		1									1	632	90400	1	EACH	SIGNALIZATION, MISC.: POWER METER CABINET, TYPE I FOUNDATION (COC STD DWG 4164)	
			35,336								35,336	804	32060	35,336	FT	**TRAFFIC SURVEILLANCE** DROP CABLE, 24 FIBER	
			27								27	804	34022	27	EACH	FIBER TERMINATION PANEL, 24 FIBER	
			3								3	804	37000	3	EACH	SPLICE ENCLOSURE, BUTT STYLE	
			6								6	804	37001	6	EACH	SPLICE ENCLOSURE, AS PER PLAN	P.26A
			61								61	809	02000	61	EACH	32" ITS PULL BOX WITH PAD AND STANDARD LID ASSEMBLY	
			4								4	809	02002	4	EACH	32" ITS PULL BOX WITH PAD AND HINGED LID ASSEMBLY	
			4								4	809	02006	4	EACH	48" ITS PULL BOX WITH PAD AND STANDARD LID ASSEMBLY, TYPE 2	
			3,887								3,887	809	24500	3,887	FT	CONDUIT, 4", MULTICELL, HDPE WITH 4 – 1" INNERDUCTS	
			2,163								2,163	809	25000	2,163	FT	CONDUIT, MULTICELL, MISC.: CONDUIT, MULTICELL, JACKED OR DRILLED, 4"	P.5

GENERAL SUMMARY

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DESIGNER
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REVIEWER
JGW 09/13/24

PROJECT ID
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SHEET P.8 TOTAL 71

D06 WRONG WAY DETECTION

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 10/11/2024 TIME: 5:28:59 PM USER: GrahamE
G:\DE\Clients\ODOT\Safety Design Projects 112342\Task 9 D6 Wrong Way Detection PID 117258\117258\400-Engineering\Roadway\Sheets\117258_GG001.dgn

TRAFFIC SIGNAL SUBSUMMARY

SHEET NO.	LOCATION NO.	REFERENCE NO.	625 CONNECTION, UNFUSED PERMANENT (EACH)		625 CONDUIT , 2", 725.051 (FT)	625 CONDUIT, 3", 725.051 (FT)	625 CONDUIT, JACKED OR DRILLED, 725.04, AS PER PLAN, 3" (FT)	625 CONDUIT CLEANED AND CABLES REMOVED (FT)	625 TRENCH, 30" DEEP (FT)	625 PULL BOX, 725.08, 18' (ELECTRIC) (EACH)	625 PULL BOX REMOVED AND REPLACED (EACH)	625 PULL BOX, MISC.: 12" X 18" (COC 725.06) TRAFFIC (EACH)	625 GROUND ROD (EACH)	625 UNDERGROUND WARNING/MARKING TAPE (FT)		632 MESSENGER WIRE, 7 STRAND, 1/4" DIAMETER WITH ACCESSORIES (FT)	632 STRAIN POLE FOUNDATION (EACH)	632 POWER CABLE, 3 CONDUCTOR, NO. 6 AWG (FT)	632 POWER CABLE, 4 CONDUCTOR, NO. 6 AWG (FT)	632 POWER CABLE, 3 CONDUCTOR, NO. 2 AWG (FT)	632 CONDUIT RISER, 2" DIAMETER (EACH)	632 CONDUIT RISER, 3" DIAMETER (EACH)	632 STRAIN POLE, TYPE TC-81.11, DESIGN 8 (EACH)	632 WOOD POLE (EACH)	632 SIGNALIZATION, MISC.: POWER METER CABINET, TYPE I FOUNDATION (COC STD DWG 4164) (EACH)		632 POWER SERVICE, AS PER PLAN (CONNECTION TO EXISTING CITY OF COLUMBUS POWER SERVICE) (EACH)	632 POWER SERVICE, AS PER PLAN (CONNECTION TO EXISTING COC TS POWER METER CABINET) (EACH)	632 POWER SERVICE, AS PER PLAN (EXISTING ODOT POWER SERVICE, ODOT ITS CABINET) (EACH)	632 POWER SERVICE, AS PER PLAN (EXISTING ODOT POWER SERVICE) (EACH)	632 POWER SERVICE, AS PER PLAN (NEW CITY OF COLUMBUS POWER SERVICE) (EACH)	809 ITS POWER SERVICE, GROUND MOUNTED, 120/240V, 100 AMP (EACH)	809 ITS POWER SERVICE, POLE MOUNTED, 120/240V, 100 AMP (EACH)			
P.28	**LOCATION #1**	P1-1								1			1																							
	I-670 WB AT DUBLIN RD (US 33)	P1-2											1				1						1										1			
			9			5	101		5	1			1	5		50		201																		
P.29	**LOCATION #2**	P2-1								1			1																							
	I-670 WB AT GRANDVIEW AVE	P2-2											1				1						1													
			3		233				257	1			1	257				288														1				
P.31	**LOCATION #3**	P3-1								1			3				1						1				1									
	I-670 EB AT GRANDVIEW AVE		6		34				34					34				140																		
P.33	**LOCATION #4**	P4-1								1			2																	1						
	I-670 WB AT NEIL AVE	P4-2											1																							
			6		541				664	1	2		3	664						601																
P.35	**LOCATION #5**	P5-1	3							1			3																	1						
	I-670 WB AT LEONARD AVE		6		14				451					451		100			74																	
P.37	**LOCATION #6**	P6-1								1			1																							
	I-70 WB AT WILSON RD	P6-2																						1												
			3		15				15					15		382		95			3												1			
P.39	**LOCATION #7**	P7-1								1			1																							
	I-70 EB AT WILSON RD	P7-2																																		
			3			374			374				1	374		123	1			429				1												
			9				104		117	2			2	117						199		1											1			
P.42	**LOCATION #8**	P8-1								1			1																							
	I-70 WB AT S CENTRAL AVE	P8-2											1																							
			15			263	48		262	3			3	262		131				416		1											1			
									452					452							1			1												
P.44	**LOCATION #9**	P9-1								1			1																							
	I-70 WB AT W MOUND ST	P9-2											1				1						1													
			3		17				47				1	47				72												1						
P.46	**LOCATION #10**	P10-1								1			1																							
	I-70 EB AT PARSONS AVE		6		31				50	1			1	50						596																
P.47	**LOCATION #11**	P11-1								1			1																							
	I-70 EB AT ALUM CREEK DR		9			22			48	1			2	48		156		195			2						1									
P.48	**LOCATION #12**												1																1							
	I-70 EB AT JAMES RD																																			
P.49	**LOCATION #13**	P13-1								1			1																							
	I-70 EB AT HAMILTON RD (SR 317)		3		101				129				1	129				156										1								
P.50	**LOCATION #14**	P14-1								1			1																							
	I-70 EB AT HILL RD (SR 256)				36				216				1	216				96			1							1								
			6						387					387																						
P.53	**LOCATION #15**	P15-1								1			1																							
	I-71 SB AT FRANK RD	P15-2											2				1						1					1								
			6		14				32	1			1	32				78																		
P.54	**LOCATION #16**												1					50											1							
	I-71 NB AT 17TH AVE																																			
TOTAL THIS SHEET CARRIED TO SHEET P.11			96		1036	664	253	0	3540	25	2	0	46	3540		942	6	1371	74	2241	7	2	5	3	0		2	3	2	3	0	1	4			

D06 WRONG WAY DETECTION

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 10/16/2024 TIME: 10:32:55 AM USER: GrahamE
G:\DE\Clients\ODOT\Safety Design Projects 112342\Task 9 D6 Wrong Way Detection PID 117258\117258\400-Engineering\Traffic\Sheets\117258_TS011.dgn

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PROJECT ID: 117258

SHEET: P.10 TOTAL: 71

D06 WRONG WAY DETECTION

TRAFFIC SIGNAL SUBSUMMARY

SHEET NO.	LOCATION	REFERENCE NO.	625 CONNECTION, UNFUSED PERMANENT (EACH)		625 CONDUIT , 2", 725.051 (FT)	625 CONDUIT, 3", 725.051 (FT)	625 CONDUIT, JACKED OR DRILLED, 725.04, AS PER PLAN, 3" (FT)	625 CONDUIT CLEANED AND CABLES REMOVED (FT)	625 TRENCH, 30" DEEP (FT)	625 PULL BOX, 725.08, 18' (ELECTRIC) (EACH)	625 PULL BOX REMOVED AND REPLACED (EACH)	625 PULL BOX, MISC.: 12" X 18" (COC 725.06) TRAFFIC (EACH)	625 GROUND ROD (EACH)	625 UNDERGROUND WARNING/MARKING TAPE (FT)		632 MESSENGER WIRE, 7 STRAND, 1/4" DIAMETER WITH ACCESSORIES (FT)	632 STRAIN POLE FOUNDATION (EACH)	632 POWER CABLE, 3 CONDUCTOR, NO. 6 AWG (FT)	632 POWER CABLE, 4 CONDUCTOR, NO. 6 AWG (FT)	632 POWER CABLE, 3 CONDUCTOR, NO. 2 AWG (FT)	632 CONDUIT RISER, 2" DIAMETER (EACH)	632 CONDUIT RISER, 3" DIAMETER (EACH)	632 STRAIN POLE, TYPE TC-81.11, DESIGN 8 (EACH)	632 WOOD POLE (EACH)	632 SIGNALIZATION, MISC.: POWER METER CABINET, TYPE I FOUNDATION (COC STD DWG 4164) (EACH)		632 POWER SERVICE, AS PER PLAN (CONNECTION TO EXISTING CITY OF COLUMBUS POWER SERVICE) (EACH)	632 POWER SERVICE, AS PER PLAN (CONNECTION TO EXISTING COC TS POWER METER CABINET) (EACH)	632 POWER SERVICE, AS PER PLAN (EXISTING ODOT POWER SERVICE, ODOT ITS CABINET) (EACH)	632 POWER SERVICE, AS PER PLAN (EXISTING ODOT POWER SERVICE) (EACH)	632 POWER SERVICE, AS PER PLAN (NEW CITY OF COLUMBUS POWER SERVICE) (EACH)	809 ITS POWER SERVICE, GROUND MOUNTED, 120/240V, 100 AMP (EACH)	809 ITS POWER SERVICE, POLE MOUNTED, 120/240V, 100 AMP (EACH)			
P.55	LOCATION #17	P17-1											1				1							1													
	I-71 SB AT SILVER DR/E HUDSON ST								49		1		2	49				50														1					
P.56	LOCATION #18	P18-1											1				1							1													
	I-71 SB AT SILVER DR/E WEBER RD		3						46	1	2		4	46				55														1					
P.57	LOCATION #19	P19-1								1			1																							
	I-71 SB AT SINCLAIR RD		3		10				34				1	34				95				1			1					1						
P.58	LOCATION #20	P20-1								1			1																							
	I-71 NB AT GEMINI PL	P20-2																																		
			3		35				35				1	35				90														1					
P.59	LOCATION #21												1					50														1					
	I-270 WB AT CLEVELAND AVE																																			
P.60	LOCATION #22	P22-1								1			1																							
	SR 161 EB AT SUNBURY RD				33				253				1	253				83				1									1					
									427					427																							
P.63	LOCATION #23	P23-1								1			1																							
	SR 161 EB AT LITTLE TURTLE WAY	P23-2	3		27				19					19								2			1										
																		112																1		
P.64	LOCATION #24	P24-1								1			1																							
	SR 315 NB AT W GOODALE ST		6				39		23				1	23				99													1					
P.65	LOCATION #25	P25-1								1			1																							
	SR 315 SB AT OLENTANGY RIVER RD		6		32				69				1	69				92														1					
P.66	LOCATION #26	P26-1								1			1																							
	SR 315 NB AT N BROADWAY/RIVERSIDE		6		5				53				1	53				70				1									1					
P.67	LOCATION #27	P27-1								1			1																							
	SR 315 NB AT N BROADWAY/OH HEALTH		15			99	182		112	5			5	112						515														1		
P.68	LOCATION #28	P28-1								1	1		2																							
	SR 315 SB AT NB ENTRANCE/BROADWAY	P28-2											1				1							1												
			9			193			193	2			2	193						258																	
P.69	LOCATION #29	P29-1								1			1																							
	SR 315 SB AT O.R.R/JASONWAY AVE	P29-2																																		
			9		10		204	409	214	1			2	214				309				2										1					
P.70	LOCATION #30	P30-1								1			1																							
	SR 104 SB AT REFUGEE RD	P30-2																				2	1													
			9		48				48	1			1	48		126		143																1		
P.71	LOCATION #31	P31-1								1			1																							
	I-70 WB AT E MOUND ST		9		14		63	10	11	1	1	1	2	11				127								1								1		
TOTAL THIS SHEET			81		214	292	488	419	1586	23	5	1	41	1586		126	3	1375	0	773	9	1	3	2	1		1	2	3	4	1	1	2			
TOTAL FROM SHEET P.10			96		1036	664	253	0	3540	25	2	0	46	3540		942	6	1371	74	2241	7	2	5	3	0		2	3	2	3	0	1	4			
TOTALS CARRIED TO GENERAL SUMMARY			177		1250	956	741	419	5126	48	7	1	87	5126		1068	9	2746	74	3014	16	3	8	5	1		3	5	5	7	1	2	6			

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DESIGNER AC

REVIEWER JGW 07/19/24

PROJECT ID 117258

SHEET P.11 TOTAL 71

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 9/16/2024 TIME: 7:52:18 PM USER: Saldana
G:\DE\Clients\ODOT\Safety Design Projects 112342\Task 9 D6 Wrong Way Detection PID 117258\117258\400-Engineering\Traffic\Sheets\117258_TS012.dgn

SHEET NO.	LOCATION	REFERENCE NO.	804 DROP CABLE, 24 FIBER FT	804 FIBER TERMINATION PANEL, 24 FIBER EACH	804 SPLICE ENCLOSURE, BUTT STYLE EACH	804 SPLICE ENCLOSURE, AS PER PLAN EACH		809 32" ITS PULL BOX WITH PAD AND STANDARD LID ASSEMBLY EACH	809 32" ITS PULL BOX WITH PAD AND HINGED LID ASSEMBLY EACH	809 48" ITS PULL BOX WITH PAD AND STANDARD LID ASSEMBLY, TYPE 2 EACH	809 CONDUIT, MULTICELL, JACKED OR DRILLED, 4", AS PER PLAN FT	809 CONDUIT, 4", MULTICELL, HDPE WITH 4-1" INTERDUCTS FT	809 CCTV IP-CAMERA SYSTEM, QUAD MULTI-VIEW FIXED WITH PTZ EACH	809 CCTV IP-CAMERA SYSTEM, WRONG WAY DETECTION EACH	809 CCTV CONCRETE POLE, 70 FEET EACH	809 CCTV LOWERING UNIT EACH	809 ETHERNET CABLE, OUTDOOR RATED FT	809 ITS CABINET, GROUND MOUNTED, AS PER PLAN EACH	809 STEP-DOWN TRANSFORMER, 3KVA EACH
P.55	**LOCATION #17**	P17-1											1						
	I-71 SB AT SILVER DR/E HUDSON ST		300					2		1	198	49				512			
P.56	**LOCATION #18**	P18-1											1						
	I-71 SB AT SILVER DR/E WEBER RD		300					2		1	109	46				230			
P.57	**LOCATION #19**	P19-1		1				1									1		
	I-71 SB AT SINCLAIR RD		1650					1			88	24		1		303			
P.58	**LOCATION #20**	P20-1		1				1			126						1		
	I-71 NB AT GEMINI PL	P20-2																	
			726										1			351			
P.59	**LOCATION #21**		600										1			195			
	I-270 WB AT CLEVELAND AVE																		
P.60	**LOCATION #22**	P22-1		1				1									1		
	SR 161 EB AT SUNBURY RD											230	1						
			2185						3		290	427				209			
P.63	**LOCATION #23**			1				1									1		
	SR 161 EB AT LITTLE TURTLE WAY												1						
			564													203			
			1611																
P.64	**LOCATION #24**	P24-1		1				1									1		
	SR 315 NB AT W GOODALE ST		1341									23	1			411			
P.65	**LOCATION #25**	P25-1		1				1									1		
	SR 315 SB AT OLENTANGY RIVER RD		787									32	1			385			
P.66	**LOCATION #26**	P26-1		1				1									1		
	SR 315 NB AT N BROADWAY/RIVERSIDE		605			1		1			112	40	1			383			
P.67	**LOCATION #27**	P27-1		1				1									1		
	SR 315 NB AT N BROADWAY/OH HEALTH		1026									13	1			500			
P.68	**LOCATION #28**	P28-1		1				1		1							1		
	SR 315 SB AT NB ENTRANCE/BROADWAY	P28-2											2						
			672													195			
P.69	**LOCATION #29**	P29-1		1				1									1		
	SR 315 SB AT O.R.R/JASONWAY AVE	P29-2																	
			2450					3			112	250	1			380			
P.70	**LOCATION #30**	P30-1		1				1									1		
	SR 104 SB AT REFUGEE RD	P30-2																	
			983			1		1				48	1			389			
P.71	**LOCATION #31**	P31-1		1	1			1									1		
	I-70 WB AT E MOUND ST		3368					2		1	73	271	1			189			
					1			1			154	185							
TOTAL THIS SHEET			19168	12	2	2		25	3	4	1262	1638	0	16	0	0	4835	12	0
TOTAL FROM SHEET P.11A			16168	15	1	4		36	1	0	901	2249	1	16	2	2	4466	15	1
TOTALS CARRIED TO GENERAL SUMMARY			35336	27	3	6		61	4	4	2163	3887	1	32	2	2	9301	27	1

TRAFFIC SURVEILENCE SUBSUMMARY

D06 WRONG WAY DETECTION

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 10/16/2024 TIME: 11:56:05 AM USER: GrahamE
G:\DE\Clients\ODOT\Safety Design Projects 112342\Task 9 D6 Wrong Way Detection PID 117258\117258\400-Engineering\Traffic\Sheets\117258_TS014.dgn

DESIGN AGENCY
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DESIGNER AC

REVIEWER JGW 09/13/24

PROJECT ID 117258

SHEET P.11B TOTAL 71

PROP. ITS-10.11 WORK PAD (10' W x 13' L)
W/ (1) ITS CABINET
W/ (1) PULL BOX, 18" (ELECTRIC)
W/ (1) 32" ITS PULL BOX WITH PAD AND STANDARD LID ASSEMBLY, 300' SLACK CAPPED AND COILED FOR TERMINATION BY ODOT

P31-1

(1)-4" MULTICELL CONDUIT
W/ (1) ETHERNET CABLE, OUTDOOR RATED
JACKED OR DRILLED = 13'

EX. CITY OF COLUMBUS SIGNAL POLE, TRAFFIC
W/ (1) CCTV IP-CAMERA SYSTEM, WRONG WAY DETECTION (LOOKING TOWARDS EXIT RAMP)
W/ (1) ETHERNET CABLE, OUTDOOR RATED

EX. 2" CITY OF COLUMBUS CONDUIT (EMPTY) = 6'
W/ (1) ETHERNET CABLE, OUTDOOR RATED
ROUTE ETHERNET CABLE INTO EX. SIGNAL POLE

CAUTION:
EXPOSE EXISTING WATER AND EX. 18" STORM TO VERIFY EXACT DEPTH CONDUIT/TRENCH INSTALLATION ACCORDING TO RECORD PLANS, TOP OF EX. STORM IS APPROX. UNK AND WATER IS 48 IN. +/- PROP. TRAFFIC CONDUIT IS MIN. 24" DEEP.

EX. PULL BOX DOP

EX. PULL BOX DOP

RIM EL. 775.10
INVERT EL. 765.20

EX. PULL BOX DOP

ONE WAY

(1)-4" MULTICELL CONDUIT
W/ (1) FIBER OPTIC CABLE, 24 FIBER
JACKED OR DRILLED = 46'

32" ITS PULL BOX WITH PAD AND STANDARD LID ASSEMBLY

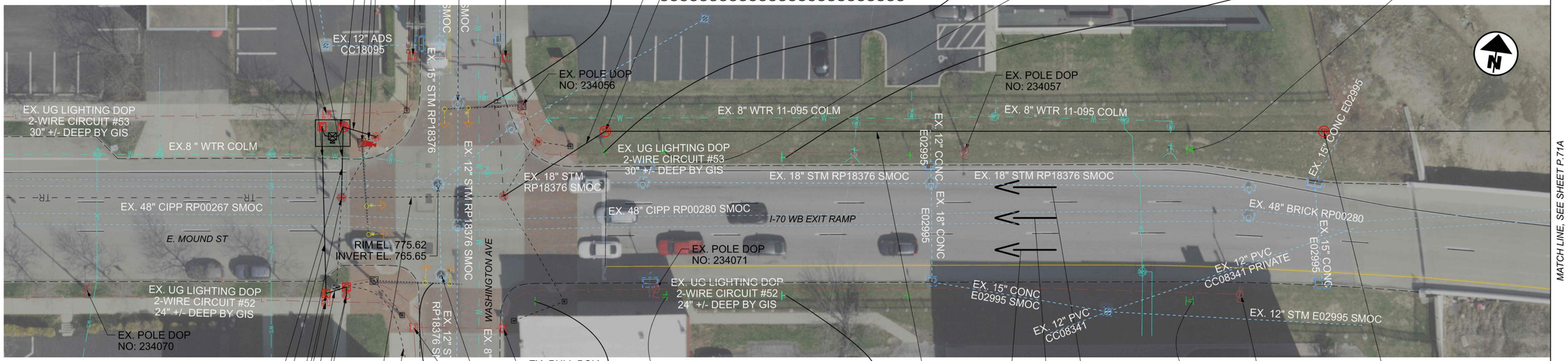
P31-S1

DO NOT ENTER
ONE WAY
R5-1-48
R6-1L-54
R6-1R-54

ONLY

P31-S4

WRONG WAY
R5-1-48
R5-1a-42



(1)-4" MULTICELL CONDUIT
W/ (1) FIBER OPTIC CABLE, 24 FIBER (TO CTSS)
JACKED OR DRILLED = 27'

(1)-3" CONDUIT (725.04)
W/ (1) POWER CABLE, 3 CONDUCTOR, NO. 6 AWG
JACKED OR DRILLED = 63'

EX. CITY OF COLUMBUS PULL BOX (TRAFFIC)
REMOVED AND REPLACED
PROP. 48" ITS PULL BOX WITH PAD AND STANDARD LID ASSEMBLY, TYPE 2
PROP. SPLICE ENCLOSURE, BUTT STYLE
SPOOL 75' SLACK
PULL BOX, 725.08, 18" (ELECTRIC)

EX. PULL BOX DOP

(1)-3" CONDUIT (725.04)
W/ (1) POWER CABLE, 3 CONDUCTOR, NO. 6 AWG
IN TRENCH = 9'

(2)-2" CONDUIT (COC 725.051)
SEE DETAIL BELOW, RIGHT

PROP. POWER METER CABINET, TYPE I FOUNDATION (COC STD DWG 4164)
CONNECT SIGNAL POWER TO 1ST 30 AMP BREAKER
CONNECT ODOT POWER CABLE TO 2ND 30 AMP BREAKER
SEE DETAIL BELOW, RIGHT

CONDUIT BANK:
EX. (1) - 2" CONDUIT W/SIGNAL CABLE (DND)
EX. (1) - 2" CONDUIT (EMPTY)
EX. (1) - 1.5" CONDUIT (DND)
EX. (4) - 3" CONDUITS W/ INTERCONNECT
INSTALL (1) FIBER OPTIC CABLE, 24 FIBER IN (1)
EX. 3" CONDUIT = 62'

EX. CONDUIT
W/ EX. POWER CABLE
CABLES REMOVED AND CONDUIT CLEANED
W/ (1) POWER CABLE, 3 CONDUCTOR, NO. 6 AWG
(TO CONDUIT RISER ON EX. MELP POLE 60' SOUTH OF SIGNAL)

ONE WAY

RIM EL. 775.61
INVERT EL. 767.98

EX. PULL BOX DOP

P31-S2

DO NOT ENTER
ONE WAY
R5-1-48
R6-1L-54
R6-1R-54

ONLY

WRONG WAY
R5-1-48
R5-1a-42

P31-S3

ODOT ITS

(1)-3" CONDUIT (725.04)
POWER CABLE, 3 CONDUCTOR, NO. 6 AWG
TO ODOT ITS CABINET
JACKED AND DRILLED = 59'

COC CONTROLLER CABINET

(1)-2" CONDUIT (COC 725.051)
W/ (1) POWER CABLE, 3 CONDUCTOR, NO. 6 AWG
TO ODOT ITS CABINET
IN TRENCH = 8'

PROP. POWER METER CABINET, TYPE I DOUNDATION (COC STD DWG 4164)
CONNECT SIGNAL POWER TO 1ST 30 AMP BREAKER
CONNECT ODOT POWER CABLE TO 2ND 30 AMP BREAKER

WIRING DETAIL
NOT TO SCALE

EX. CONDUIT
CONDUIT CLEANED AND CABLES REMOVED
W/ (1) POWER CABLE, 2 CONDUCTOR, NO. 6 AWG (TO COC SIGNAL)
W/ (1) POWER CABLE, 1 CONDUCTOR, NO. 4 AWG (GND) (TO COC SIGNAL)

PULL BOX, 12" x 18" (COC 725.06), TRAFFIC INTERCEPT EX. POWER CONDUIT ENTERING TRAFFIC CABINET ENCASED IN TRENCH
TYPE A (COC STD DWG 4001)

EX. CONDUIT
W/ EX. SERVICE ENTRY CABLE

(1)-2" CONDUIT (COC 725.051)
W/ (1) POWER CABLE, 3 CONDUCTOR, NO. 6 AWG
TO CITY OF COLUMBUS METER CABINET
IN TRENCH = 3'

(1)-2" CONDUIT (COC 725.051)
W/ (1) POWER CABLE, 3 CONDUCTOR, NO. 6 AWG (TO ODOT ITS)
W/ (1) POWER CABLE, 2 CONDUCTOR, NO. 6 AWG (TO COC SIGNAL)
W/ (1) POWER CABLE, 1 CONDUCTOR, NO. 4 AWG (GND) (TO COC SIGNAL)
IN TRENCH = 3'

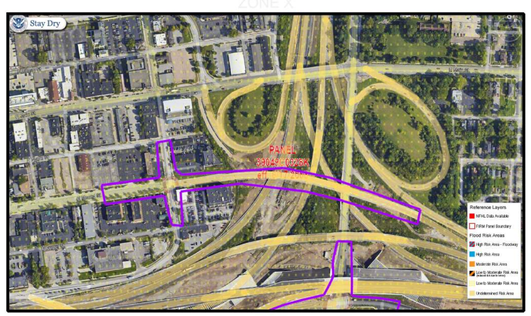
WW-1 WW-2 WW-3

(1)-4" MULTICELL CONDUIT
W/ (1) FIBER OPTIC CABLE, 24 FIBER
IN TRENCH = 271'

EX. POLE DOP NO: 234072

32" ITS PULL BOX WITH PAD AND STANDARD LID ASSEMBLY

NOT IN FLOODPLAIN
CITY OF COLUMBUS
39049C0328K 6/17/2008
ZONE X



HORIZONTAL SCALE IN FEET
0 10 20 40

TRAFFIC CONTROL PLAN
LOCATION #31 - I-70 WB AT E MOUND ST

DESIGN AGENCY	WOOLPERT
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DESIGNER	AC
REVIEWER	JGW 07/19/24
PROJECT ID	117258
SHEET	P.71
TOTAL	71

D06 WRONG WAY DETECTION

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 9/18/2024 TIME: 5:44:01 PM USER: Saldana
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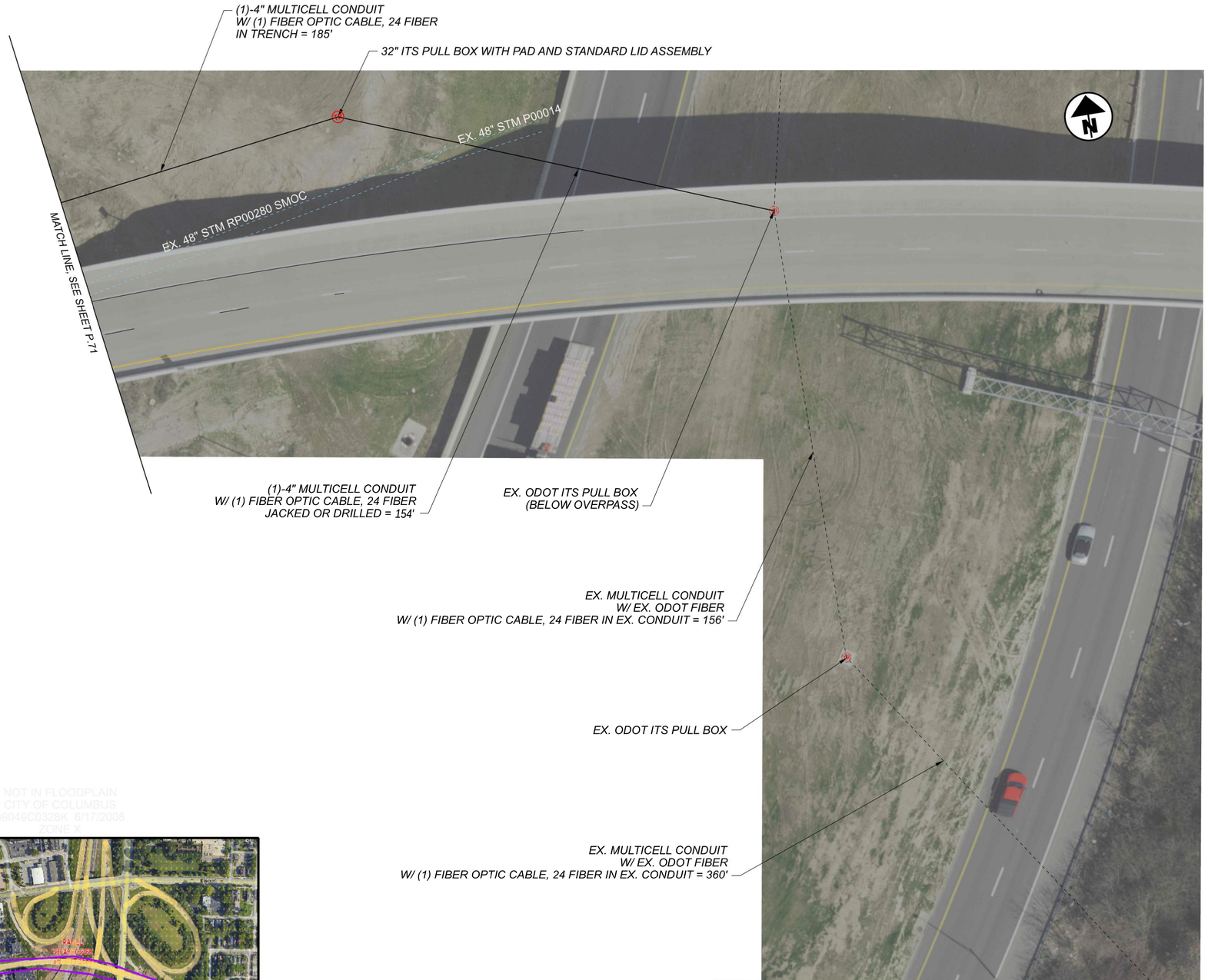
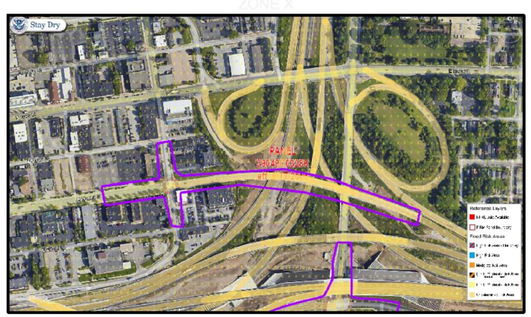


NOT IN FLOODPLAIN
CITY OF COLUMBUS
39049C0328K 6/17/2008
ZONE X



HORIZONTAL
SCALE IN FEET
0 10 20 40

TRAFFIC CONTROL PLAN
LOCATION #31 - I-70 WB AT E MOUND ST

DESIGN AGENCY
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F 937-461-0743

DESIGNER
AC

REVIEWER
JGW 09/13/24

PROJECT ID
117258

SHEET P.71A | TOTAL 71

D06 WRONG WAY DETECTION

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 9/18/2024 TIME: 5:44:35 PM USER: Saldana
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D06 WRONG WAY DETECTION

MODEL: Sheet PAPERSIZE: 34x22 (in) DATE: 9/18/2024 TIME: 5:44:49 PM USER: Saldana
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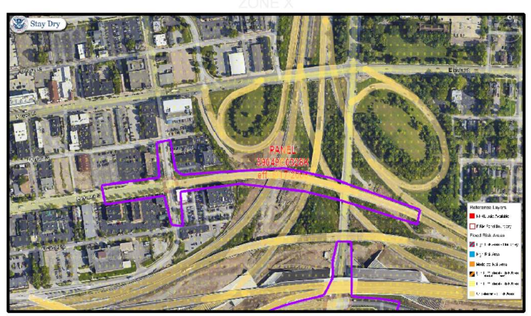
MATCH LINE, SEE SHEET P.71A

EX. ODOT ITS PULL BOX

EX. MULTICELL CONDUIT
W/ EX. ODOT FIBER
W/ (1) FIBER OPTIC CABLE, 24 FIBER IN EX. CONDUIT = 7'

EX. ODOT ITS PULL BOX
SPOOL 300' SLACK FOR FUTURE INTERCONNECT (BY ODOT)

NOT IN FLOODPLAIN
CITY OF COLUMBUS
39049C0328K 6/17/2008
ZONE X



HORIZONTAL
SCALE IN FEET
0 10 20 40

TRAFFIC CONTROL PLAN
LOCATION #31 - I-70 WB AT E MOUND ST

DESIGN AGENCY

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REVIEWER	JGW 09/13/24
PROJECT ID	117258
SHEET	P.71B
TOTAL	71