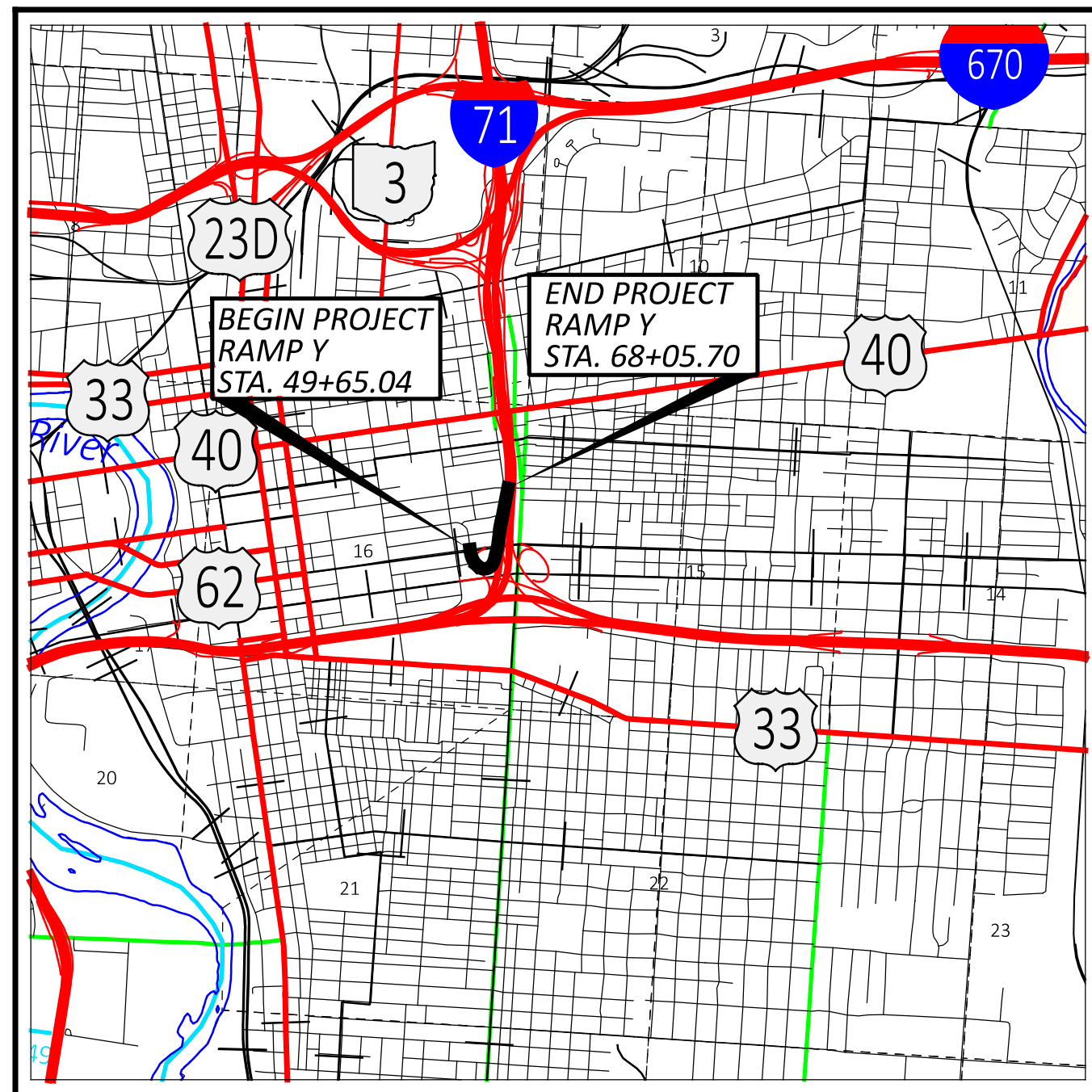


STATE OF OHIO DEPARTMENT OF TRANSPORTATION

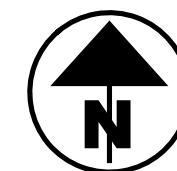
FRA-71-17.22

CITY OF COLUMBUS FRANKLIN COUNTY



LOCATION MAP

LATITUDE: 39° 57' 27" LONGITUDE: 82° 59' 03"



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

DESIGN DESIGNATION

SEE SHEET P.2

DESIGN EXCEPTIONS

DESIGN FEATURE	APPROVAL DATE	SHEET NUMBERS
SHOULDER WIDTH (RAMP Y OUTSIDE SHLDR.)	2025-11-04	P.8-P.9
SUPERELEVATION RATE (RAMP Y)	2025-11-04	P.6, P.77

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:
ms consultants, inc.
ENGINEERS, ARCHITECTS & PLANNERS
2221 SCHROCK ROAD
COLUMBUS, OHIO 43229
PHONE (614) 898-7100

INDEX OF SHEETS:

TITLE SHEET	P.1
DESIGN DESIGNATION INFORMATION	P.2
SCHEMATIC PLAN & CURVE DATA	P.3 - P.4
TYPICAL SECTIONS	P.5 - P.10
GENERAL NOTES	P.11 - P.13, 13A-13B
MAINTENANCE OF TRAFFIC	P.14 - P.35
GENERAL SUMMARIES	P.36 - P.40
SUBSUMMARIES	P.41 - P.45
SITE PLAN	P.46
PLAN AND PROFILE - RAMP Y	P.47 - P.50
PLAN AND PROFILE - E. MAIN ST.	P.51 - P.52
CROSS SECTIONS - RAMP Y	P.53 - P.70
CROSS SECTIONS - E. MAIN ST.	P.71 - P.76
SUPERELEVATION TABLES	P.77
GORE DETAILS	P.78 - P.79
INTERSECTION DETAILS	P.80 - P.81
DRAINAGE DETAILS	P.82 - P.88
WATERLINE/HYDRDANT PROFILE	P.88A
BARRIER DETAILS	P.89
TRAFFIC CONTROL	P.90 - P.107
LIGHTING	P.108 - P.116, 112A, 113A
RETAINING WALLS	P.117 - P.122

STANDARD CONSTRUCTION DRAWINGS								SUPPLEMENTAL SPECIFICATIONS	SPECIAL PROVISIONS	
BP-3.1	1-19-24	HL-10.11	7-21-23	MT-95.30	7-18-25	COLUMBUS RDWY.	COLUMBUS LIGHTING	800	7-18-25	
BP-5.1	7-18-25	HL-10.12	7-21-23	MT-95.45	7-21-23	AA-S119	MIS-1	12-1-23	807	1-17-25
F-1.1	7-18-25	HL-10.13	1-20-23	MT-98.29	1-17-20	AA-S123	MIS-2	12-1-23	813	7-21-23
F-3.1	7-19-13	HL-20.11	7-18-25	MT-99.20	4-19-19	AA-S127	MIS-3	12-11-24	814	7-15-16
MGS-2.1	7-18-25	HL-30.11	7-21-23	MT-99.30	1-17-20		MIS-4	12-18-24	821	4-20-12
MGS-3.2	7-18-25	HL-30.21	4-17-20	MT-101.70	7-19-24	COLUMBUS MOT	MIS-54	7-15-24	832	7-18-25
MGS-4.2	7-18-25	HL-60.11	7-21-17	MT-101.75	7-21-23	1500	MIS-201	12-24-24	850	7-21-23
RM-4.5	7-18-25	TC-22.20	7-18-25	MT-101.90	7-17-20	1510	MIS-300	2-5-24	872	1-17-25
RM-4.6	7-18-25	TC-41.10	7-19-13	MT-102.10	7-21-23	1520	MIS-403	7-15-24	905	1-17-25
CB-3	7-16-21	TC-41.20	10-18-13	MT-105.10	1-17-20		MIS-500	10-2-24	913	4-16-21
CB-3A	7-19-24	TC-41.30	4-21-23			COLUMBUS TC	MIS-700	9-19-24	921	7-19-24
CB-8	7-19-24	TC-41.40	10-18-13			1640	MIS-702	1-1-24	992	4-18-14
I-3B	1-17-25	TC-41.41	7-19-19			1641	MIS-800	8-8-25		
I-3D	7-19-24	TC-41.50	10-18-13				MIS-900	12-21-23	COC 1611	2-1-13
MH-1	7-15-22	TC-42.10	10-18-13			COLUMBUS SIGNALS				
MH-3	7-19-24	TC-42.20	10-18-13			4160				
DM-1.1	1-17-25	TC-51.11	7-18-25			4170				
DM-1.2	1-17-25	TC-52.10	10-18-13			4202				
DM-4.2	7-12-12	TC-52.20	1-15-21			4205				
DM-4.4	4-29-02	TC-52.20	1-15-21			4253				
		TC-61.10	4-21-23			4330				
		TC-61.30	7-19-24			4331				
		TC-65.10	1-17-14							
		TC-65.11	1-17-25			COLUMBUS WATER				
		TC-71.10	7-18-25			L-6637C				
		TC-72.20	7-18-25			L-7001				
		TC-73.20	1-17-25							

FEDERAL PROJECT NUMBER

NON-FEDERAL

RAILROAD INVOLVEMENT

NONE

PROJECT DESCRIPTION

THIS PROJECT CONSISTS OF THE MODIFICATION OF THE I-71 SOUTHBOUND EXIT RAMP TO E. MAIN STREET FROM A ONE-LANE EXIT TO A TWO-LANE EXIT, WITH WIDENING OUT TO TWO RIGHT TURN LANES AND ONE LEFT/THROUGH LANE AND LENGTHENING OF THE THIRD FAR-RIGHT EASTBOUND LANE ON E. MAIN STREET, ALONG WITH NEW CURB. THE PROJECT ALSO INCLUDES NEW SIGNAGE, PAVEMENT MARKINGS AND SIGNAL MODIFICATION.

EARTH DISTURBED AREAS

PROJECT EARTH DISTURBED AREA:	4.89 ACRES
ESTIMATED CONTRACTOR EARTH DISTURBED AREA:	0.13 ACRES
NOTICE OF INTENT EARTH DISTURBED AREA:	5.02 ACRES

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.

TRAFFIC REROUTED FOR BRIEF TIME PERIODS

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

ODOT

THIS PLAN UTILIZES STRUCTURAL BEST MANAGEMENT PRACTICES (BMP'S) FOR POST CONSTRUCTION STORM WATER TREATMENT INCLUDED AS PART OF ODOT PROJECT FRA-70-13.62 PROJECT 2B PID 94303/3171-E.

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

Pamela Boratyn
Director, Department of Transportation

ENGINEER'S SEAL:
ROADWAY & STRUCTURES



CITY OF COLUMBUS SIGNATURES

FOR THE CITY OF COLUMBUS SIGNATURES, SEE THE SEPARATE SIGNATURE PAGE

DESIGN AGENCY

DESIGNER
ACW

REVIEWER
TAZ 09/15/25

PROJECT ID
123987

SHEET TOTAL
P.1 122

4145-E
COC. DOW # : 25-100

FRA-71-17.22

MODEL: Sheet PAPER/SIZE: 34x22 (in.) DATE: 2/24/2026 TIME: 8:53:43 AM PLTDRV: OHDOT_PDF.plt PENTBL: OHDOT_PerC.tbl USER: lzangmeister@msconsultants.com WORKSPACE: OHDOTCEV02 WORKSET: 123987 PRODUCT: OpenRoadsDesigner 24.00.02.25

TITLE SHEET

FOR THE DIVISION OF WATER (CONTD.)

THE CONTRACTOR SHALL OBTAIN THE PROPER HYDRANT PERMIT(S), AND PAY ANY APPLICABLE FEES, FOR ANY APPROVED HYDRANT USAGE DEEMED NECESSARY FOR WORK UNDER THIS IMPROVEMENT. PERMITS MAY BE OBTAINED THROUGH THE DIVISION OF WATER PERMIT OFFICE (614-645-7330). THE CONTRACTOR SHALL ADHERE TO ALL RULES & REGULATIONS GOVERNING SAID PERMIT AND MUST HAVE THE ORIGINAL PERMIT ON SITE ANYTIME IN WHICH THE HYDRANT IS IN USE. PERMITS MAY BE OBTAINED BY ACCESSING [HTTP://PORTAL.COLUMBUS.GOV/PERMITS/](http://portal.columbus.gov/permits/). COST TO BE INCLUDED IN THE VARIOUS BID ITEMS.

THESE DESIGN PLANS HAVE ASSUMED DUCTILE IRON AS THE BASELINE PIPE MATERIAL FOR DESIGN. ALL FITTINGS, DEFLECTIONS, AND OTHER DESIGN ELEMENTS ARE BASED OFF OF THE DUCTILE IRON STANDARDS. IF PVC PIPING IS TO BE UTILIZED IN THE PERMITTED LOCATIONS FOR CONSTRUCTION, A FORMAL PLAN REVISION SHALL BE SUBMITTED FOR REVIEW AND APPROVAL REGARDING ANY CHANGES TO THE DESIGN PLANS. THE REDLINE PLAN REVISION SHALL DISPLAY THE NECESSARY CHANGES TO THE HORIZONTAL AND VERTICAL COMPONENTS OF THE PLANS, TO ACCOUNT FOR THE DIFFERENT ALLOWABLE PIPE DEFLECTIONS ASSOCIATE WITH PVC PIPING.

ALL WATER MAINS SHALL BE CLEANED AND FLUSHED, AND ANY WATER MAIN 12-INCH AND LARGER MUST BE PROPERLY PIGGED, IN ACCORDANCE WITH SECTION 801.15 OF THE CITY OF COLUMBUS, CONSTRUCTION AND MATERIAL SPECIFICATIONS.

ALL WATER MAINS SHALL BE PRESSURE TESTED IN ACCORDANCE WITH SECTION 801.16 OF THE CITY OF COLUMBUS, CONSTRUCTION AND MATERIAL SPECIFICATIONS. THE CITY WILL NOT APPROVE ANY TEST LASTING LESS THAN TWO HOURS, REGARDLESS OF THE AMOUNT OF LEAKAGE.

ALL WATER MAINS SHALL BE DISINFECTED IN ACCORDANCE WITH SECTION 801.17 OF THE CITY OF COLUMBUS, CONSTRUCTION AND MATERIAL SPECIFICATIONS. SPECIAL ATTENTION IS DIRECTED TO APPLICABLE SECTIONS OF A.W.W.A. C-651. WHEN THE WATER MAINS ARE READY FOR DISINFECTION, THE INSPECTOR SHALL SUBMIT AN ELECTRONIC REQUEST FOR CHLORINATION OF THE MAINS THAT NEED DISINFECTED, ELECTRONIC (PDF) COPY OF A REDLINED AS-BUILT (THAT INCLUDE SIGNED TITLE SHEET), THE AS-BUILT SURVEY COORDINATES, WATER SERVICE REPORTS IN SURVEY 123 AND A PRESSURE TEST TO THE CITY OF COLUMBUS, DIVISION OF WATER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH THE DISINFECTION OF ALL WATER MAINS CONSTRUCTED UNDER THIS PLAN.

THE CONTRACTOR SHALL ASSUME A MINIMUM TIMEFRAME OF 30 CALENDAR DAYS IN THE PREPARATION OF THEIR CONSTRUCTION SCHEDULE FOR EACH INDIVIDUAL CHLORINATION REQUEST SUBMITTAL. THIS TIMEFRAME IS ONLY AN ESTIMATE, AND ACTUAL DURATIONS MAY VARY DURING CONSTRUCTION.

ANY SECTION OF WATER MAIN THAT IS LONGER THAN 20 FEET IN LENGTH SHALL BE CHLORINATED. HAND SWABBING METHODS WILL ONLY BE PERMITTED FOR SECTIONS LESS THAN OR EQUAL TO 20 FEET IN LENGTH. USE UNSCENTED HOUSEHOLD BLEACH FOR HAND SWABBING OF PIPE AND FITTINGS. PLEASE NOTE THAT CUT-IN-TEES, SLEEVES, AND ANY OTHER REQUIRED FITTINGS OR PIPING SHALL BE TAKEN INTO ACCOUNT AND ARE INCLUDED IN THE TOTAL LENGTH OF THE SECTION (CUT TO CUT).

ONLY ONE CONNECTION TO AN EXISTING WATER MAIN IS PERMITTED BEFORE DISINFECTION OF A NEW WATER MAIN HAS BEEN COMPLETED. ALL OTHER CONNECTIONS MUST BE MADE AFTER THE MAIN HAS BEEN DISINFECTED.

WHEN A 4-INCH OR LARGER TAP IS TO OCCUR ON A 20-INCH OR LARGER WATER MAIN, THE CONTRACTOR SHALL NOTIFY THE DIVISION OF WATER OPERATIONS CONTROL CENTER AT (614)-645-7168 TWENTY-FOUR (24) HOURS IN ADVANCE OF PERFORMING THE TAP.

ALL FIRE HYDRANTS TO BE INSTALLED IN THE CITY OF COLUMBUS SHALL BE PAINTED WITH THE COLOR "SAFETY ORANGE". THE FIRE HYDRANTS SHALL BE PROVIDED WITH TWO COATS IN A GLOSS ENAMEL OF THE "SAFETY ORANGE" COLOR FOR THE ENTIRE HYDRANT. THE TOPS OF THE FIRE HYDRANTS ARE NO LONGER REQUIRED TO BE PAINTED BLACK. AFTER INSTALLATION OF FIRE HYDRANTS, THE CONTRACTOR IS RESPONSIBLE TO APPLY TOUCH UP PAINT TO ANY DAMAGE TO THE FACTORY APPLIED HYDRANT PAINT. HYDRANTS WILL NOT BE ACCEPTED UNTIL ANY PAINT DAMAGE FROM SHIPPING OR INSTALLATION HAS BEEN REPAIRED. USE HYDRANT TOUCH UP PAINT IN ACCORDANCE WITH THE APPROVED MATERIALS LIST.

ALL FIRE HYDRANTS, WHETHER NEW OR RELOCATED, SHALL BE INSPECTED AND APPROVED BY THE DIVISION OF FIRE PRIOR TO BEING PUT INTO SERVICE. THE CONTRACTOR SHALL CONTACT THE DIVISION OF FIRE AT 614-645-8673 TO SCHEDULE THE INSPECTION OF THE NEW OR RELOCATED FIRE HYDRANTS. THE CITY WILL PROVIDE THE CONTRACTOR "OUT OF SERVICE" RINGS THAT SHALL BE PLACED ON ALL NEW OR RELOCATED FIRE HYDRANTS TO CLEARLY IDENTIFY THEM AS INACTIVE. AFTER WRITTEN NOTIFICATION OF ACCEPTANCE HAS BEEN RECEIVED AND FINAL WATER MAIN CONNECTIONS HAVE OCCURRED, THE CONTRACTOR SHALL REMOVE THE "OUT OF SERVICE" RINGS FROM THE FIRE HYDRANTS. ALL "OUT OF SERVICE" RINGS SHALL BE RETURNED TO THE CITY. ALL COORDINATION AND WORK REQUIRED TO TEST AND ACCEPT THE FIRE HYDRANTS SHALL BE INCLUDED IN THE PRICE BID ITEM 809.

MAINTAIN EIGHTEEN (18) INCHES VERTICAL AND TEN (10) FEET HORIZONTAL SEPARATION BETWEEN ANY SANITARY OR STORM SEWER PIPING AND ALL PROPOSED WATER MAINS.

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.

THE CONTRACTOR SHALL ADHERE TO THE REQUIREMENTS OF THE OHIO ADMINISTRATIVE CODE CHAPTER 3745-83-02 WATER DISRUPTION OF SERVICE RULE. EXCAVATE PITS SUFFICIENTLY BELOW THE AREA TO BE CONNECTED TO IN ORDER TO MAINTAIN WATER LEVELS BELOW THE WATER MAIN. IF WATER FROM THE PIT ENTERS THE EXISTING MAIN, CONTACT DIVISION OF WATER IMMEDIATELY. ENSURE THAT SUFFICIENTLY SIZED PUMPS ARE UTILIZED TO REMOVE WATER FROM THE TRENCH AND BACKUP PUMPS ARE KEPT ON SITE FOR REDUNDANCY.

"ITEM SPECIAL SURVEY COORDINATES" SHALL INCLUDE ALL MATERIAL, EQUIPMENT, AND LABOR NECESSARY TO OBTAIN HORIZONTAL AND VERTICAL (NORTHING, EASTING, AND CENTERLINE OF PIPE ELEVATION) SURVEY COORDINATES FOR THE WATER MAIN IMPROVEMENTS. THE SURVEY COORDINATES SHALL BE OBTAINED FOR THE COMPLETED WATER MAIN CONSTRUCTION AND SHALL INCLUDE ALL VALVES, TEES, CROSSES, BENDS, HORIZONTAL DEFLECTIONS, PLUGS, REDUCERS, TAPPING SLEEVES, FIRE HYDRANTS, AIR RELEASES, CURB STOPS, TRACER WIRE BOXES, AND CASING PIPE TERMINI. ADDITIONAL SURVEY COORDINATES ARE REQUIRED ON THE WATER MAIN EVERY 200 FEET WHERE NO FITTING OR OTHER WATER MAIN STRUCTURE IS BEING INSTALLED WITHIN THAT LENGTH OF THE IMPROVEMENT.

ALL SURVEY COORDINATES SHALL BE REFERENCED TO THE APPLICABLE COUNTY ENGINEER'S MONUMENTS, AND SHALL BE BASED ON THE NORTH AMERICAN DATUM OF 1983 (NAD 83) WITH THE (NSRS2011) ADJUSTMENT, WITH FURTHER REFERENCE MADE TO THE OHIO STATE PLANE SOUTH COORDINATE SYSTEM (GRID), SOUTH ZONE, WITH ELEVATIONS BASED ON NAVD 88 DATUM. ALL COORDINATES (NORTHING, EASTING, AND CENTERLINE OF PIPE ELEVATION) SHALL BE REFERENCED TO THE NEAREST HUNDREDTH (N XXXXX.XX, E XXXXX.XX, C/L ELEV. XXX.XX). ALL SURVEY COORDINATES SHALL BE ACCURATE TO WITHIN 1.0 FOOT HORIZONTAL AND A TENTH OF A FOOT (0.10) OR LESS VERTICAL.

THE COORDINATES SHALL BE DOCUMENTED TO THE ENGINEER IN DIGITAL SPREADSHEET FORM AND SHALL INCLUDE THE APPLICABLE ITEM, STATION, NORTHING, EASTING, AND CENTERLINE OF PIPE ELEVATION. COORDINATES SHALL BE SUBMITTED TO THE ENGINEER ON A BI-WEEKLY BASIS. COORDINATES SHALL ALSO BE REQUIRED TO BE SUBMITTED TO THE DIVISION OF WATER AS PART OF THE REQUEST FOR CHLORINATION.

LUMP SUM PAYMENT IS FULL COMPENSATION FOR ALL WORK INVOLVED IN OBTAINING AND DOCUMENTING THE SURVEY COORDINATES AS DESCRIBED IN THIS SPECIFICATION.

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

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.

A MINIMUM OF 4 FEET OF COVER IS REQUIRED PRIOR TO PRESSURE TESTING ANY WATER MAIN. A SUFFICIENT AMOUNT OF BACKFILL SHALL BE INSTALLED TO PROVIDE THE ADEQUATE RESTRAINT IN AREAS WHERE REQUIRED.

THE PROPOSED WATER MAIN SHALL BE LOCATED A MINIMUM DISTANCE OF TWENTY (20) FEET AWAY FROM ANY EXISTING OR PROPOSED STRUCTURE, OVERHANG OR FOOTER.

DURING CONSTRUCTION, THE CONTRACTOR SHALL USE EXTREME CAUTION NOT TO DAMAGE THE EXISTING 8 INCH WATER MAIN DUE TO MINIMAL COVER.

WHERE INDICATED ON THE PLANS, THE EXISTING WATER MAIN SHALL BE ABANDONED; AND ANY EXISTING WATER SERVICE LINES OFF THIS MAIN SHALL BE TRANSFERRED TO THE NEW WATER MAIN. PRIOR TO ABANDONMENT OF THE EXISTING WATER MAIN, THE PROPOSED WATER MAIN SHALL BE PIGGED (IF REQUIRED), TESTED, CHLORINATED AND PUT IN SERVICE AND THEN THE EXISTING WATER SERVICE LINES SHALL BE TRANSFERRED. THE CONTRACTOR SHALL MAINTAIN WATER SERVICE TO ALL PROPERTIES DURING CONSTRUCTION OF THE NEW WATER MAIN AND SHALL NOTIFY ALL CUSTOMERS AFFECTED BY THE TRANSFER OF WATER SERVICE LINES. TO ENSURE THAT ALL EXISTING WATER SERVICE LINES ARE TRANSFERRED TO THE NEW MAIN, NO WATER MAIN SHALL BE ABANDONED UNTIL THE NEW WATER MAIN HAS BEEN PUT IN SERVICE; ALL AFFECTED WATER SERVICE LINES HAVE BEEN TRANSFERRED; AND THE EXISTING WATER MAIN TO BE ABANDONED HAS BEEN SHUT DOWN FOR 24 HOURS. ALL VISIBLE VALVE BOXES, FIRE HYDRANTS, AND WATER TAP BOXES ON THE WATER MAIN TO BE ABANDONED, WHICH WILL NO LONGER BE IN SERVICE, SHALL BE REMOVED. ALL WATER MAINS TO BE ABANDONED SHALL BE MADE WATER TIGHT. THE REQUIRED SURFACE RESTORATION SHALL BE PAID FOR UNDER THE APPROPRIATE BID ITEM(S).

FIRE HYDRANT RELOCATIONS SHALL CONFORM TO APPLICABLE SECTIONS OF ITEM 809 OF THE CITY OF COLUMBUS CONSTRUCTION AND MATERIAL SPECIFICATIONS. WORK SHALL CONSIST OF REMOVING THE EXISTING HYDRANT, INSTALLING NEW 6" PIPE AND FITTING AS REQUIRED TO LOCATE THE FIRE HYDRANT 2 FEET FROM BACK OF PROPOSED CURB OR 8 FEET OFF EDGE OF PAVEMENT, RESETTING HYDRANT AND BLOCKING AS REQUIRED. ALL 6" PIPE SHALL BE INSTALLED AT 4'-0" MINIMUM COVER. HYDRANT EXTENSIONS SHALL BE PROVIDED PER ITEM 810, AS REQUIRED. RELOCATED FIRE HYDRANTS SHALL BE ADJUSTED TO PROPER GRADE AND FACED IN THE PROPER DIRECTION. WHEN A HYDRANT IS RELOCATED FIFTEEN (15) FEET OR MORE FROM THE "TYPICAL HYDRANT SETTING" VALVE LOCATION (SEE L-6409 & L-6637), AN ADDITIONAL VALVE SHALL BE INSTALLED, AND RESTRAINED, WITHIN TWO (2) FEET OF THE RELOCATED HYDRANT. PAYMENT IS TO BE INCLUDED UNDER ITEM 809, FIRE HYDRANT RELOCATED.

RELOCATED FIRE HYDRANTS SHALL BE PUT BACK IN SERVICE AS SOON AS POSSIBLE. THE CONTRACTOR SHALL NOTIFY THE DIVISION OF FIRE ALARM OFFICE, 614-221-3132, WHENEVER FIRE HYDRANTS ARE TAKEN OUT OF SERVICE AND PLACED BACK IN SERVICE. NO TWO (2) ADJACENT FIRE HYDRANTS SHALL BE TAKEN OUT OF SERVICE CONCURRENTLY.

THE CONTRACTOR IS REQUIRED TO SUBMIT A SEQUENCE OF CONSTRUCTION TO THE CITY AT THE PRECONSTRUCTION CONFERENCE. THIS SEQUENCE OF CONSTRUCTION SHOULD ALSO DETAIL THE CONTRACTOR'S PLANS FOR TESTING AND CHLORINATION OF THE NEW MAINS, INCLUDING THE SOURCE OF THE WATER AND LOCATION OF TEMPORARY CHLORINATION AND BLOW-OFF TAPS. THE CITY SHALL HAVE THE RIGHT TO APPROVE, REJECT OR MODIFY THE CONSTRUCTION SEQUENCE TO ENSURE THAT THE INTERRUPTIONS ARE HELD TO A MINIMUM. NOTE: THE CITY MAY TAKE UP TO 10 WORKING DAYS TO RESPOND TO THIS SUBMITTAL.

SITE UTILITY CONTRACTOR SHALL CONTACT THE COLUMBUS PLUMBING INSPECTION GROUP AT 614-645-8355, OR PLUMBINGINFO@COLUMBUS.GOV, FOR INSPECTION OF ANY LOWERINGS/RELOCATIONS OF THE PRIVATE DOMESTIC AND/OR FIRE SYSTEMS, AFTER THE CITY WATER METER, BEFORE COVERING.

PERMITS: WHEN EXCAVATING WITHIN COLUMBUS PUBLIC RIGHT OF WAY LIMITS, THE CONTRACTOR SHALL OBTAIN AN EXCAVATION PERMIT FROM CITY OF COLUMBUS, DEPARTMENT OF PUBLIC SERVICE PERMIT OFFICE; PHONE: (614) 645-7497; FAX: (614) 645-1876; EMAIL: COLSPERMITS@COLUMBUS.GOV

THE DEVELOPER SHALL ENTER INTO AN AGREEMENT WITH THE CITY OF COLUMBUS, DIVISION OF WATER IN ACCORDANCE WITH SECTION 1105.15 OF THE COLUMBUS CITY CODES PRIOR TO CONSTRUCTING ANY WATER MAINS.

THE DEVELOPER SHALL DEPOSIT WITH THE CITY OF COLUMBUS THE TOTAL ESTIMATED COST FOR CONSTRUCTION INSPECTION PRIOR TO ANY CONSTRUCTION OPERATION. CONTACT THE DPU PERMIT OFFICE AT (614) 645-7330 TO PAY STANDBY INSPECTION FEES. A COMPLETED WATER AGREEMENT FORM WILL ALSO NEED SUBMITTED TO THE DPU PERMIT OFFICE AT THAT TIME.

THE CITY OF COLUMBUS INSPECTION WILL BE PERFORMED BY THE DEPARTMENT OF PUBLIC SERVICE (DPS). CONTACT DPS AT (614) 645-0433 FOR ADDITIONAL INFORMATION.

COORDINATE TABLE							
REF	C/L STATION	OFFSET	AS-BUILT STATION	DESCRIPTION	AS BUILT		
					NORTHING	EASTING	ELEVATION
1	0+00			8"x8" TEE			
2	0+04			22.5" VERT. BEND			
3	0+05			6" VALVE			
4	0+23			6" VALVE			
5	0+25			FIRE HYDRANT			

DESIGN AGENCY



DESIGNER
ACW

REVIEWER
JAZ 09/15/25

PROJECT ID
123987

SHEET TOTAL
P.13A | 122

FOR THE DIVISION OF FORESTRY

PUBLIC TREE IMPACT NOTE

ANY WORK ON OR WITHIN THE CRITICAL ROOT ZONE OF A PUBLIC TREE IS CONSIDERED AN IMPACT TO THE PUBLIC TREE. A PUBLIC TREE PLAN AND PERMIT FROM COLUMBUS RECREATION & PARKS FORESTRY IS REQUIRED FOR ANY PLAN WITH PUBLIC TREES IN THE WORK LIMITS. THE PUBLIC TREE PLAN SHALL DENOTE ALL PUBLIC TREES IN THE PROJECT'S WORK LIMITS. TREE INFORMATION SHALL CONFORM TO THE COLUMBUS TREE TECHNICAL MANUAL REQUIREMENTS AND BE PROVIDED BY A NATURAL RESOURCE PROFESSIONAL. FAILURE TO CONTACT THE CITY FORESTRY REPRESENTATIVE IN ADVANCE OF CONSTRUCTION WILL RESULT IN THE CONTRACTOR REIMBURSING FORESTRY FOR THE COST OF ANY AND ALL DAMAGE TO PUBLIC TREES.

PUBLIC TREE REMOVAL AND MITIGATION NOTE

NO PUBLIC TREE REMOVAL SHALL BE ATTEMPTED BY CONSTRUCTION PERSONNEL OR EQUIPMENT, ONLY UNDER THE SUPERVISION OF A CERTIFIED ARBORIST. ALL TREES REMOVED SHALL INCLUDE STUMP REMOVAL GROUND TO 18 INCHES; IF THE REMOVED TREE IS WITHIN 36" OF A PROTECTED TREE THE STUMP SHALL ONLY BE GROUND TO 2" DEPTH. ALL WOOD DEBRIS ON CITY OF COLUMBUS PROPERTY SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR BY THE END OF EACH WORK DAY. TREES APPROVED FOR REMOVAL BY CRPD FORESTRY SHALL BE MITIGATED IN ACCORDANCE WITH THE COLUMBUS TREE TECHNICAL MANUAL AND COLUMBUS CITY CODES CHAPTER 912.

FORESTRY PERMIT NOTE

ANY WORK ON OR WITHIN THE CRITICAL ROOT ZONE OF A PUBLIC TREE REQUIRES A FORESTRY PERMIT. ALL APPLICABLE FEES MUST BE PAID PRIOR TO PERMIT ISSUANCE. REFER TO THE CRPD TREE TECHNICAL MANUAL FOR TREE REMOVAL, PRUNING, PROTECTION, AND MITIGATION STANDARDS.

OAK WILT NOTE

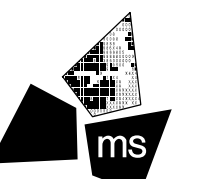
TO PREVENT THE SPREAD OF OAK WILT, A FUNGAL DISEASE, OAK TREES SHALL ONLY BE PRUNED FROM NOVEMBER 1 TO MARCH 1.

FOR THE DIVISION OF PUBLIC UTILITIES

THIS PROJECT'S DISTURBANCE OF IMPERVIOUS AREA IS INTENDED TO BE TEMPORARY, AS THE DURATION OF THE DISTURBANCE IS INTENDED TO BE LESS THAN ONE YEAR. THEREFORE, THIS PROJECT SHALL NOT BE CONSIDERED APPLICABLE FOR FLOOD CONTROL REQUIREMENTS PER PAGE 5 OF THE STORMWATER DRAINAGE MANUAL.

GENERAL NOTES

DESIGN AGENCY



ms consultants, inc.

DESIGNER

ACW

REVIEWER

TAZ 02/24/26

PROJECT ID

123987

SHEET TOTAL

P.13B | 122

CROSSINGS AND CONNECTIONS TO EXISTING PIPES AND UTILITIES

WHERE PLANS PROVIDE FOR A PROPOSED CONDUIT TO BE CONNECTED TO, OR CROSS OVER OR UNDER AN EXISTING SEWER OR UNDERGROUND UTILITY, LOCATE THE EXISTING PIPES OR UTILITIES BOTH AS TO LINE AND GRADE BEFORE STARTING TO LAY THE PROPOSED CONDUIT.

IF IT IS DETERMINED THAT THE ELEVATION OF THE EXISTING CONDUIT, OR EXISTING APPURTENANCE TO BE CONNECTED, DIFFERS FROM THE PLAN ELEVATION OR RESULTS IN A CHANGE IN THE PLAN CONDUIT SLOPE, NOTIFY THE ENGINEER BEFORE STARTING CONSTRUCTION OF ANY PORTION OF THE PROPOSED CONDUIT WHICH WILL BE AFFECTED BY THE VARIANCE IN THE EXISTING ELEVATIONS.

IF IT IS DETERMINED THAT THE PROPOSED CONDUIT WILL INTERSECT AN EXISTING SEWER OR UNDERGROUND UTILITY IF CONSTRUCTED AS SHOWN ON THE PLAN, NOTIFY THE ENGINEER BEFORE STARTING CONSTRUCTION OF ANY PORTION OF THE PROPOSED CONDUIT WHICH WOULD BE AFFECTED BY THE INTERFERENCE WITH AN EXISTING FACILITY.

PAYMENT FOR ALL THE OPERATIONS DESCRIBED ABOVE IS INCLUDED IN THE CONTRACT PRICE FOR THE PERTINENT 611 CONDUIT ITEM.

CASTING STRUCTURES

ALL MANHOLES, WATER VALVES, TRAFFIC PULL BOXES, ELECTRIC VAULTS OR ANY OTHER CASTING STRUCTURES SHALL HAVE A TOLERANCE OF NO MORE THAN ¼ INCH DOWN FROM THE TOP OF THE SURFACE COURSE.

ITEM 611 - INLET NO. 3D, AS PER PLAN

PER ODOT STANDARD CONSTRUCTION DRAWING I-3D, SHEET P.2, THE INLET BOX HAS A MINIMUM 32 INCH DIMENSION BETWEEN THE PCJ / BOTTOM OF TROUGH AND THE TOP OF BOTTOM SLAB IN SECTION C-C. IN ORDER TO TIE INTO THE EXISTING 12" STORM SEWER CONDUIT, THE MINIMUM DIMENSION SHALL BE 30.2 INCHES

ITEM 442 - ANTI-SEGREGATION EQUIPMENT

PROVIDE ANTI-SEGREGATION EQUIPMENT FOR ALL COURSES OF UNIFORM THICKNESS IN ACCORDANCE WITH CMS 401.12, FOR THE FREEWAY AND FREEWAY RAMP.

CITY OF COLUMBUS NOTES

PUBLIC TREE PROTECTION NOTE

ALL PUBLIC TREES AND THE GROUND IN THE CRITICAL ROOT ZONE, WHETHER SHOWN OR NOT SHOWN ON THE PLANS, ARE TO BE PROTECTED UNLESS A PERMIT TO REMOVE IS GIVEN BY COLUMBUS RECREATION & PARKS (CRPD) FORESTRY. THE CONTRACTOR SHALL PROTECT TREES NEAR OR ADJACENT TO THE WORK AREA TO AVOID DAMAGE TO ALL TREES THAT ARE TO REMAIN. HEAVY EQUIPMENT WILL NOT BE ALLOWED TO COMPACT THE SOIL OVER THE CRITICAL ROOT ZONE OF EXISTING PUBLIC TREES. RESTRICTED EQUIPMENT ACCESS ROUTES SHALL BE COORDINATED WITH CRPD FORESTRY AT FORESTRY@COLUMBUS.GOV BEFORE WORK BEGINS. TEMPORARY PAVING MATERIALS, SUCH AS PLYWOOD, LUMBER OR RUBBER MATTING, SPREAD OVER THE ROOT ZONE OF PUBLIC TREES MAY BE REQUIRED TO PREVENT COMPACTION. CONSTRUCTION MATERIALS, EXCAVATION DEBRIS, FUEL, EQUIPMENT, OR VEHICLES ARE NOT TO BE STOCKPILED, STORED, DUMPED, OR PARKED WITHIN THE CRITICAL ROOT ZONE OF PUBLIC TREES. ALL TREES MUST BE PROTECTED AGAINST INJURY OR DAMAGE TO BRANCHES, TRUNKS, OR ROOTS FROM CONSTRUCTION AND EXCAVATION, AS DESCRIBED IN THE CRPD TREE TECHNICAL MANUAL. IF THERE IS A QUESTION REGARDING TREE PROTECTION NEEDS, THE CONTRACTOR MUST CONTACT THE CITY FORESTRY SECTION AT FORESTRY@COLUMBUS.GOV.

CITY OF COLUMBUS STANDARD DRAWING LOCATIONS

[HTTPS://WWW.COLUMBUS.GOV/SERVICES/COLUMBUS-WATER-POWER/ABOUT-COLUMBUS-WATER-POWER/THE-DIVISION-OF-SEWERAGE-DRAINAGE/WASTEWATER-TREATMENT/SEWER-OVERFLOW-DISCHARGE-INFORMATION-SSOCSO/SEWER-STANDARD-DRAWINGS](https://www.columbus.gov/services/columbus-water-power/about-columbus-water-power/the-division-of-sewerage-drainage/wastewater-treatment/sewer-overflow-discharge-information-ssocso/sewer-standard-drawings)

[HTTPS://WWW.COLUMBUS.GOV/SERVICES/COLUMBUS-WATER-POWER/ABOUT-COLUMBUS-WATER-POWER/THE-DIVISION-OF-SEWERAGE-DRAINAGE/WASTEWATER-TREATMENT/WATER-DISTRIBUTION-SYSTEM-STANDARD-DETAIL-DRAWINGS](https://www.columbus.gov/services/columbus-water-power/about-columbus-water-power/the-division-of-sewerage-drainage/wastewater-treatment/water-distribution-system-standard-detail-drawings)

[HTTPS://WWW.COLUMBUS.GOV/BUSINESS-DEVELOPMENT/BUILDING-ZONING-SERVICES/DOCUMENTS-FORMS/DESIGN-AND-CONSTRUCTION-DOCUMENTS/DOCUMENT-LIBRARY/STANDARD-DRAWINGS](https://www.columbus.gov/business-development/building-zoning-services/documents-forms/design-and-construction-documents/document-library/standard-drawings)

[HTTPS://WWW.COLUMBUS.GOV/SERVICES/COLUMBUS-WATER-POWER/ABOUT-COLUMBUS-WATER-POWER/COLUMBUS-WATER-POWER-FAQS/POWER-SPECIFICATIONS-STREET-LIGHTING-MIS-SPECIFICATIONS](https://www.columbus.gov/services/columbus-water-power/about-columbus-water-power/columbus-water-power-faqs/power-specifications-street-lighting-mis-specifications)

FOR THE DIVISION OF POWER

WHEN EXCAVATING WITHIN COLUMBUS PUBLIC RIGHT OF WAY LIMITS,

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

ANY PROJECT, BOTH PUBLIC OR PRIVATE, WITH IMPACTS REQUIRING RELOCATION, SUPPORT, PROTECTION, OR ANY OTHER ACTIVITY CONCERNED WITH THE CITY'S ELECTRICAL FACILITIES IN THE CONSTRUCTION AREA IS TO BE PERFORMED BY THE CONTRACTOR UNDER THE DIRECTION OF DOP PERSONNEL AND AT THE EXPENSE OF THE PROJECT.

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

ANY PROJECT, BOTH PUBLIC OR PRIVATE, WITH IMPACTS REQUIRING RELOCATION, SUPPORT, PROTECTION, OR ANY OTHER ACTIVITY CONCERNED WITH THE CITY'S ELECTRICAL FACILITIES IN THE CONSTRUCTION AREA IS TO BE PERFORMED BY THE CONTRACTOR UNDER THE DIRECTION OF DOP PERSONNEL AND AT THE EXPENSE OF THE PROJECT.

UNLESS PREVIOUSLY AUTHORIZED, DOP SHALL MAKE ALL FINAL CONNECTIONS TO DOP'S EXISTING ELECTRICAL SYSTEM AT THE EXPENSE OF THE PROJECT.

NO PERSON SHALL WORK ON DOP FACILITIES UNLESS THEY HAVE COMPLETED CONTRACTOR SAFETY ORIENTATION WITH DOP. ANY PERSON WORKING ON DOP FACILITIES ON LIVE CONDUCTORS OR CONDUCTORS THAT MAY BECOME LIVE SHALL COMPLY WITH DOP'S CONDUCTOR SAFETY POLICY (TDMIS-1603), HOLD CARD SYSTEM (TDMIS-1604) AND STREET LIGHT LOCK OUT TAG OUT PROCEDURE (MIS-1). PRIOR TO BEGINNING WORK ON DOP FACILITIES, EACH PERSON SHALL CONTACT DOP'S DISPATCH OFFICE AT 614-645-7627 AND PROVIDE THEIR NAME, PHONE NUMBER, LOCATION, DESCRIPTION OF WORK AND CIRCUIT NUMBER. AT COMPLETION OF WORK, EACH PERSON SHALL NOTIFY DOP'S DISPATCH OFFICE.

THE CONTRACTOR SHALL USE MATERIAL AND MAKE REPAIRS TO A CITY OF COLUMBUS STREET LIGHTING SYSTEM BY FOLLOWING DOP'S "MATERIAL AND INSTALLATION SPECIFICATIONS" (MIS) AND THE CITY OF COLUMBUS "CONSTRUCTION AND MATERIAL SPECIFICATIONS" (CMSC). ANY NEW OR RE-INSTALLED STREET LIGHT SYSTEM SHALL REQUIRE TESTING AS REFERRED TO IN SECTION 1001.18 OF THE CMSC MANUAL. CONTRACTORS WORKING ON STREET LIGHTING SHALL CONFORM TO DOP'S EXISTING STREET LIGHT LOCKOUT/TAGOUT (LOTO) PROCEDURE, MIS-1, COPIES OF WHICH ARE AVAILABLE FROM DOP AND ON THE CITY WEBSITE.

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

THE CONTRACTOR SHALL USE MATERIAL AND MAKE REPAIRS TO A CITY OF COLUMBUS STREET LIGHTING SYSTEM BY FOLLOWING DOP'S "MATERIAL AND INSTALLATION SPECIFICATIONS"(MIS) AND THE CITY OF COLUMBUS "CONSTRUCTION AND MATERIAL SPECIFICATIONS" (CMSC). ANY NEW OR RE-INSTALLED STREET LIGHT SYSTEM SHALL REQUIRE TESTING AS REFERRED TO IN SECTION 1001.18 OF THE CMSC MANUAL. CONTRACTORS WORKING ON STREET LIGHTING SHALL CONFORM TO DOP'S EXISTING STREET LIGHT LOCKOUT/TAGOUT (LOTO) PROCEDURE, MIS-1, COPIES OF WHICH ARE AVAILABLE FROM DOP AND ON THE CITY WEBSITE.

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

FOR THE DIVISION OF WATER RECLAMATION

THE CONTRACTOR SHALL NOTIFY THE FOLLOWING DIVISIONS AT LEAST 24-HOURS IN ADVANCE OF ANTICIPATED START OF CONSTRUCTION: DIVISION OF SEWERAGE AND DRAINAGE (614) 645-7102 DIVISION OF DESIGN AND CONSTRUCTION (CONSTRUCTION SECTION) (614) 645-0433

THE CONTRACTOR SHALL REQUEST INSPECTION BY EMAILING THE FOLLOWING INFORMATION TO PRIVATEDevelopment@COLUMBUS.GOV BY 2PM THE WORKING DAY PRIOR TO YOUR NEEDED INSPECTION: CONTACT NAME AND NUMBER CID AGREEMENT OR CC #, AGR OR DRAWER E #, EP# PROJECT NAME DATE THE INSPECTION IS NEEDED

THE CONTRACTOR IS RESPONSIBLE FOR THE INVESTIGATION, LOCATION, SUPPORT, PROTECTION, AND RESTORATION OF ALL EXISTING UTILITIES AND APPURTENANCES WHETHER SHOWN ON THESE PLANS OR NOT. THE CONTRACTOR SHALL EXPOSE ALL UTILITIES OR STRUCTURES PRIOR TO CONSTRUCTION TO VERIFY THE VERTICAL AND HORIZONTAL EFFECT ON THE PROPOSED CONSTRUCTION. THE CONTRACTOR SHALL CALL, TOLL FREE, THE OHIO UTILITIES PROTECTION SERVICE (1-800-362-2764) 48-HOURS PRIOR TO CONSTRUCTION AND SHALL NOTIFY ALL UTILITY COMPANIES AT LEAST 48-HOURS PRIOR TO WORK IN THE VICINITY OF THEIR UNDERGROUND LINES.

ANY MODIFICATION TO THE WORK AS SHOWN ON THESE DRAWINGS MUST HAVE PRIOR WRITTEN APPROVAL BY THE ADMINISTRATOR, DIVISION OF WATER RECLAMATION.

ALL CONCRETE PIPE, STORM AND SANITARY SEWER STRUCTURES WILL BE STAMPED OR HAVE SUCH IDENTIFICATION NOTING THAT SAID PIPE, STORM AND SANITARY STRUCTURES HAVE BEEN INSPECTED BY THE CITY OF COLUMBUS AND MEETS THEIR SPECIFICATIONS. PIPE AND STRUCTURES WITHOUT PROPER IDENTIFICATION WILL NOT BE PERMITTED FOR INSTALLATION.

IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE CITY OF COLUMBUS TWO WORKING DAYS PRIOR TO COMMENCEMENT OF INITIAL SITE LAND DISTURBANCE ON ANY SITE OF ONE OR MORE ACRES. THIS INCLUDES SITE CLEARING, GRUBBING AND ANY EARTH MOVING. PRIMARY EROSION AND SEDIMENT CONTROL PRACTICES ARE MANDATED BY REGULATION TO BE IN PLACE FROM THE BEGINNING OF THE CONSTRUCTION ACTIVITY. PLEASE CONTACT THE STORMWATER AND REGULATORY MANAGEMENT SECTION AT (614) 645- 6311. DETAILS OF THIS REQUIREMENT MAY BE FOUND IN THE REGULATION FOR CONTROL OF STORMWATER POLLUTION FROM LAND DISTURBANCE. FAILURE TO COMPLY MAY RESULT IN ENFORCEMENT ACTION.

THE CONTRACTOR SHALL ENSURE THERE IS A SURVEYOR'S LEVEL AND ROD ON THE PROJECT FOR USE IN PERFORMING GRADE CHECKS WHENEVER SEWER LINE STRUCTURES OR PIPE ARE BEING INSTALLED. THE CONTRACTOR SHALL MAKE THIS EQUIPMENT AVAILABLE FOR USE AND ASSIST THE CITY INSPECTOR IN PERFORMING GRADE CHECKS WHEN REQUESTED BY THE INSPECTOR. THE INSPECTOR WILL MAKE ALL REASONABLE ATTEMPTS TO CONFINE REQUESTS FOR ASSISTANCE IN PERFORMING GRADE CHECKS TO TIMES CONVENIENT TO THE CONTRACTOR. THESE CHECKS WILL BE PERFORMED TO ENSURE THE FOLLOWING:
 1. PROPER PLACEMENT OF EACH STRUCTURE.
 2. PROPER INSTALLATION OF INITIAL RUNS OF PIPE FROM A STRUCTURE.
 3. GRADE, AFTER AN OVERNIGHT OR LONGER SHUTDOWN.
 4. GRADE, AT ANY OTHER TIME THE INSPECTOR HAS REASON TO QUESTION GRADE OF INSTALLATION.

GRADE CHECKS PERFORMED BY THE CITY INSPECTOR IN NO WAY RELIEVE THE CONTRACTOR OF THE ULTIMATE RESPONSIBILITY TO ENSURE CONSTRUCTION TO THE PLAN GRADE.

FOR THE DIVISION OF WATER

THE CITY OF COLUMBUS, CONSTRUCTION AND MATERIAL SPECIFICATIONS, 2018 EDITION AND ALL REVISIONS, INCLUDING ALL SUPPLEMENTS THERETO, SHALL GOVERN ALL CONSTRUCTION ITEMS (WITHIN THE CITY'S ROW) THAT ARE A PART OF THIS PLAN, UNLESS OTHERWISE NOTED.

ALL WATER MAIN MATERIALS AND INSTALLATIONS SHALL BE IN ACCORDANCE WITH THE CURRENT RULES AND REGULATIONS OF THE CITY OF COLUMBUS, DIVISION OF WATER. ALL CITY OF COLUMBUS, DIVISION OF WATER STANDARD DRAWINGS SHALL APPLY TO THE PROJECT, UNLESS OTHERWISE NOTED.

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

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

NO PERSON SHALL BEGIN CONSTRUCTION OR INSTALLATION OF A PUBLIC WATER MAIN UNTIL PLANS HAVE BEEN APPROVED BY THE STATE OF OHIO ENVIRONMENTAL PROTECTION AGENCY (OEPA).

DESIGN AGENCY



DESIGNER

ACW

REVIEWER

TAZ 11/20/25

PROJECT ID

123987

SHEET

P.13

TOTAL

122

SHEET NUMBER											PART.	ITEM	ITEM	GRAND	UNIT	DESCRIPTION	SEE SHEET NO.
P.15	P.16	P.18	P.22	P.42	P.92	P.104	P.120				01/SAF/03	EXT	TOTAL				
					1,308						1,308	807	14410	1,308	FT	TRAFFIC CONTROL (CONT.) WET REFLECTIVE THERMOPLASTIC PAVEMENT MARKING, DOTTED LINE, 6"	
					1						1	814	00010	1	EACH	INTERSTATE ELONGATED ROUTE SHIELD SYMBOL MARKING, TYPE B125	
					1.43						1.43	850	10010	1.43	MILE	GROOVING FOR 6" RECESSED PAVEMENT MARKING, (ASPHALT)	
					1,308						1,308	850	10110	1,308	FT	GROOVING FOR 6" RECESSED PAVEMENT MARKING, (ASPHALT)	
					3,497						3,497	850	10130	3,497	FT	GROOVING FOR 12" RECESSED PAVEMENT MARKING, (ASPHALT)	
																TRAFFIC SIGNALS	
						4					4	625	32000	4	EACH	GROUND ROD	
						8					8	632	05006	8	EACH	VEHICULAR SIGNAL HEAD, (LED), 3-SECTION, 12" LENS, 1-WAY, POLYCARBONATE	
						8					8	632	25000	8	EACH	COVERING OF VEHICULAR SIGNAL HEAD	
						435					435	632	30300	435	FT	MESSENGER WIRE, 7 STRAND, 3/16" DIAMETER WITH ACCESSORIES	
						435					435	632	30600	435	FT	TETHER WIRE, WITH ACCESSORIES	
						478					478	632	40700	478	FT	SIGNAL CABLE, 7 CONDUCTOR, NO. 14 AWG	
						84					84	632	62810	84	FT	INTERCONNECT CABLE, MISC.: CAT 5E CABLE, OUTDOOR RATED	P.103
						1					1	632	62820	1	EACH	INTERCONNECT, MISC.: SPREAD SPECTRUM RADIOS ASSEMBLY RELOCATED	P.103
						4					4	632	64000	4	EACH	STRAIN POLE FOUNDATION, AS PER PLAN, 20' DEEP	P.103
						4					4	632	83600	4	EACH	STRAIN POLE, MISC.:TYPE 4170, DESIGN 11	P.103
						1					1	632	90100	1	EACH	REMOVAL OF TRAFFIC SIGNAL INSTALLATION	
						1					1	632	90400	1	EACH	SIGNALIZATION, MISC.:FOUNDATION PRE-EXCAVATION	P.103
						1					1	632	90400	1	EACH	SIGNALIZATION, MISC.:STOP LINE RADAR DETECTION	P.103
																RETAINING WALLS	
							LS				LS	503	21300	LS		UNCLASSIFIED EXCAVATION	
							LS				LS	505	11100	LS		PILE DRIVING EQUIPMENT MOBILIZATION	
							1,770				1,770	507	00200	1,770	FT	STEEL PILES HP12X53, FURNISHED	
							960				960	507	92200	960	FT	PREBORED HOLES	
							8,550				8,550	509	10000	8,550	LB	EPOXY COATED STEEL REINFORCEMENT	
							28				28	511	71100	28	CY	CONCRETE, MISC.: 8"x 24"x 69" PRECAST CONCRETE LAGGING	P.118
							25				25	511	71100	25	CY	CONCRETE, MISC.: 8"x 36"x 69" PRECAST CONCRETE LAGGING	P.118
							1				1	511	71100	1	CY	CONCRETE, MISC.: 8"x 24"x 117" PRECAST CONCRETE LAGGING	P.118
							3				3	511	71100	3	CY	CONCRETE, MISC.: 8"x 36"x 117" PRECAST CONCRETE LAGGING	P.118
							219				219	518	21200	219	CY	POROUS BACKFILL WITH GEOTEXTILE FABRIC	
																MISCELLANEOUS STRUCTURE	
					1,638						1,638	512	10000	1,638	SY	SEALING OF CONCRETE SURFACES	
																MAINTENANCE OF TRAFFIC	
											1	SPECIAL	61411300	1	EACH	WORK ZONE TRAFFIC SIGNAL	P.20
											136	614	11110	136	HOUR	LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE	
											2,704	614	11630	2,704	FT	INCREASED BARRIER DELINEATION	
											3	614	12380	3	EACH	WORK ZONE IMPACT ATTENUATOR, 24" WIDE HAZARDS, (UNIDIRECTIONAL)	
LS											LS	614	12420	LS		DETOUR SIGNING	
											536	614	12801	536	EACH	WORK ZONE RAISED PAVEMENT MARKER, AS PER PLAN	P.17
											26	614	13310	26	EACH	BARRIER REFLECTOR, TYPE 1, ONE WAY	
											20	614	13312	20	EACH	BARRIER REFLECTOR, TYPE 2, ONE WAY	
											90	614	13350	90	EACH	OBJECT MARKER, ONE WAY	
											28	614	18601	28	SNMT	PORTABLE CHANGEABLE MESSAGE SIGN, AS PER PLAN	P.16
											0.19	614	20010	0.19	MILE	WORK ZONE LANE LINE, CLASS I, 6"	
											0.17	614	21000	0.17	MILE	WORK ZONE CENTER LINE, CLASS I	
											0.25	614	22010	0.25	MILE	WORK ZONE EDGE LINE, CLASS I, 6"	
											1.22	614	22056	1.22	MILE	WORK ZONE EDGE LINE, CLASS I, 6", 807 PAINT	
											6,857	614	23110	6,857	FT	WORK ZONE CHANNELIZING LINE, CLASS I, 12", 807 PAINT	
											74	614	24000	74	FT	WORK ZONE DOTTED LINE, CLASS I	
											268	614	25000	268	FT	WORK ZONE TRANSVERSE/DIAGONAL LINE, CLASS I	
											81	614	26000	81	FT	WORK ZONE STOP LINE, CLASS I	
											87	614	28000	87	FT	WORK ZONE GORE MARKING, CLASS II	
											22	614	30000	22	EACH	WORK ZONE ARROW, CLASS I	
											81	615	20000	81	SY	PAVEMENT FOR MAINTAINING TRAFFIC, CLASS A	
53											53	616	10000	53	MGAL	WATER	
											2,600	622	41100	2,600	FT	PORTABLE BARRIER, UNANCHORED	

GENERAL SUMMARY

DESIGN AGENCY

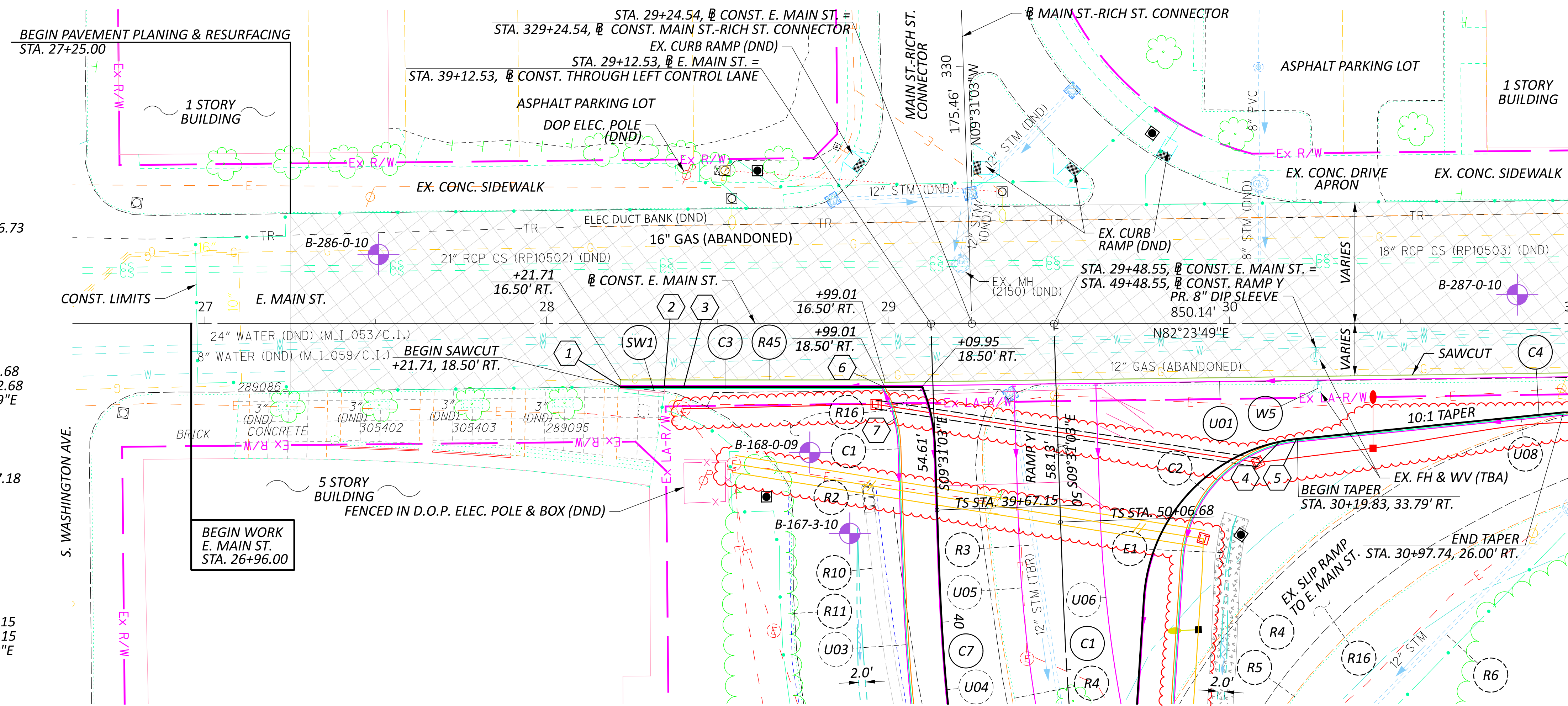
 ms consultants - inc.
 DESIGNER
 ACW
 REVIEWER
 TAZ 11/30/25
 PROJECT ID
 123987
 SHEET TOTAL
 P.39 | 122

C1

P.I. = STA. 51+46.73
 Ls = 206.00'
 Os = 34°36'16"
 LT = 140.05'
 ST = 71.15'
 x = 198.61'
 y = 40.40'
 k = 101.76'
 p = 10.23'
 C = 202.68'
 TS = STA. 50+06.68
 SC = STA. 52+12.68
 C.B. = S21°00'59"E

C7

P.I. = STA. 40+17.18
 Ls = 75.00'
 Os = 06°47'55"
 LT = 50.04'
 ST = 25.03'
 x = 74.89'
 y = 2.96'
 k = 37.48'
 p = 0.74'
 C = 74.95'
 TS = STA. 39+67.15
 SC = STA. 40+42.15
 C.B. = S11°47'00"E



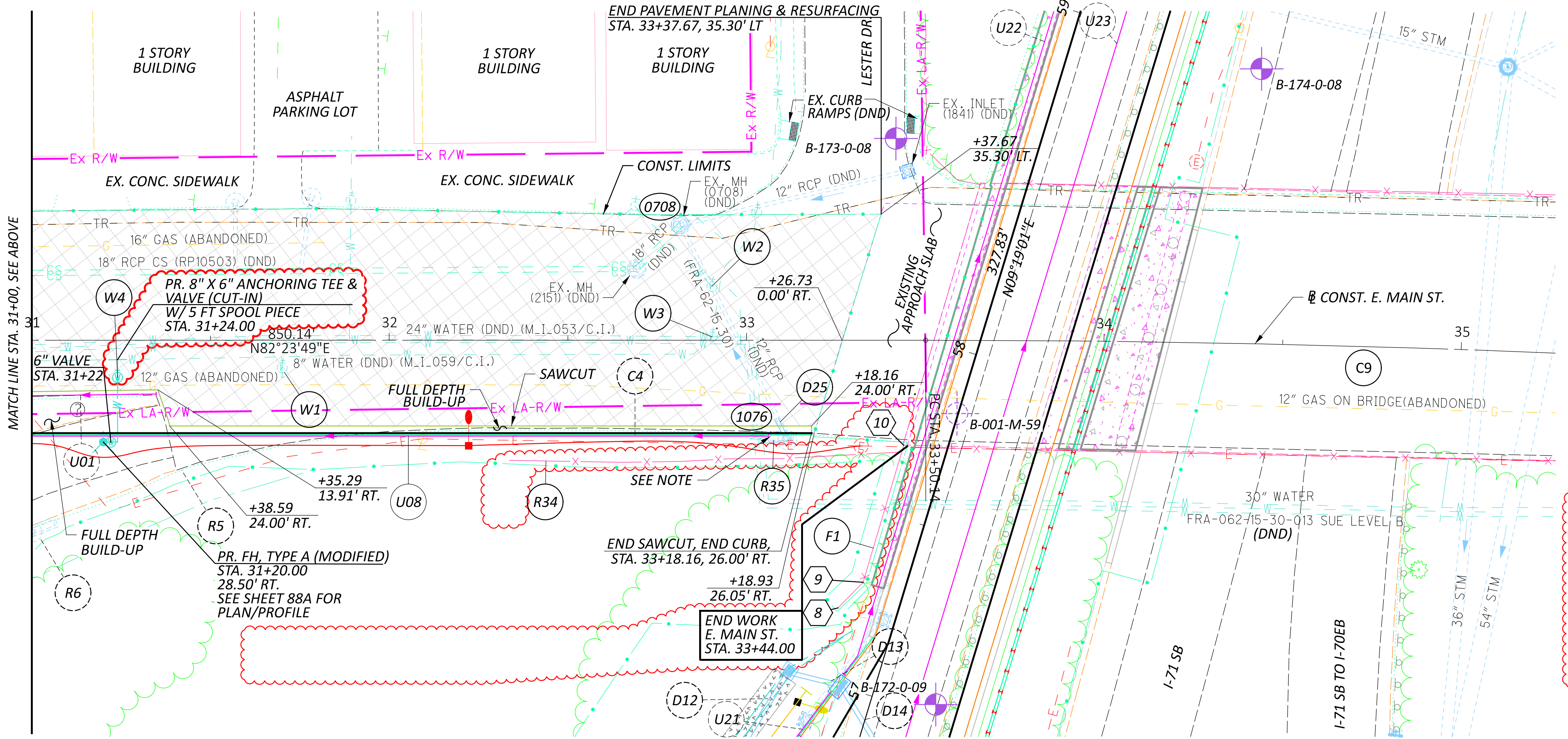
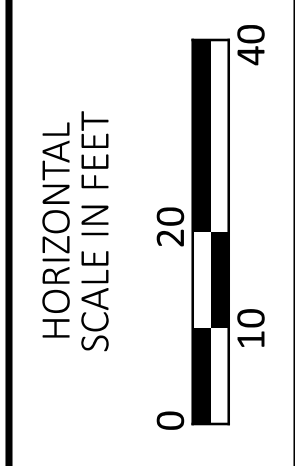
FOR INTERSECTION DETAIL SEE SHEETS P.80 & P.81.
 FOR PROFILE, SEE SHEET P.52.

LEGEND

- 1 STA. 28+21.71, 18.50' RT., BEGIN 6" CURB TRANSITION TO 3.67".
- 2 STA. 28+34.46, 18.50' RT. END CURB HEIGHT TRANSITION TO 3.67", BEGIN TRANSITION TO 6".
- 3 STA. 28+40.00, 18.50' RT., END CURB HEIGHT TRANSITION TO 6".
- 4 STA. 30+14.90, 34.61' RT., BEGIN 4" CURB HEIGHT TRANSITION TO 6"
- 5 STA. 30+19.83, 33.79' RT., END 4" CURB HEIGHT TRANSITION TO 6"
- 6 STA. 25+98.71, 18.50' RT., BEGIN 6" CURB HEIGHT TRANSITION TO 4"
- 7 STA. 49+74.52, 46.93' RT., END 6" CURB HEIGHT TRANSITION TO 4"

NOTE
 PRIOR TO THE CONTRACTOR ORDERING THE NEW INLET STRUCTURE (1076), THE CONTRACTOR SHALL VERIFY THE EXISTING 12" OUTLET INVERT AND ADJUST THE PROPOSED STRUCTURE ACCORDINGLY.

THE CONSTRUCTION LIMITS IS OUTSIDE OF THE CRITICAL ROOT ZONE OF PUBLIC TREES. NO PUBLIC TREE IMPACTS EXPECTED.

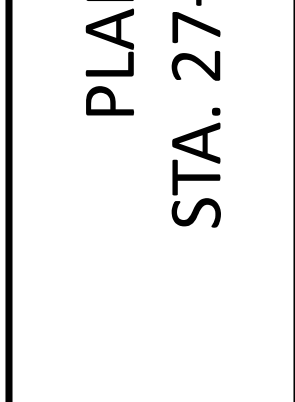


C9

P.I. = STA. 36+97.25
 Δ = 09°14'11" RT
 Dc = 01°20'00"
 R = 4,297.18'
 T = 347.12'
 L = 692.73'
 E = 14'
 V (des) = 25 MPH
 e_d (max) = NC
 WIDENING = N/A

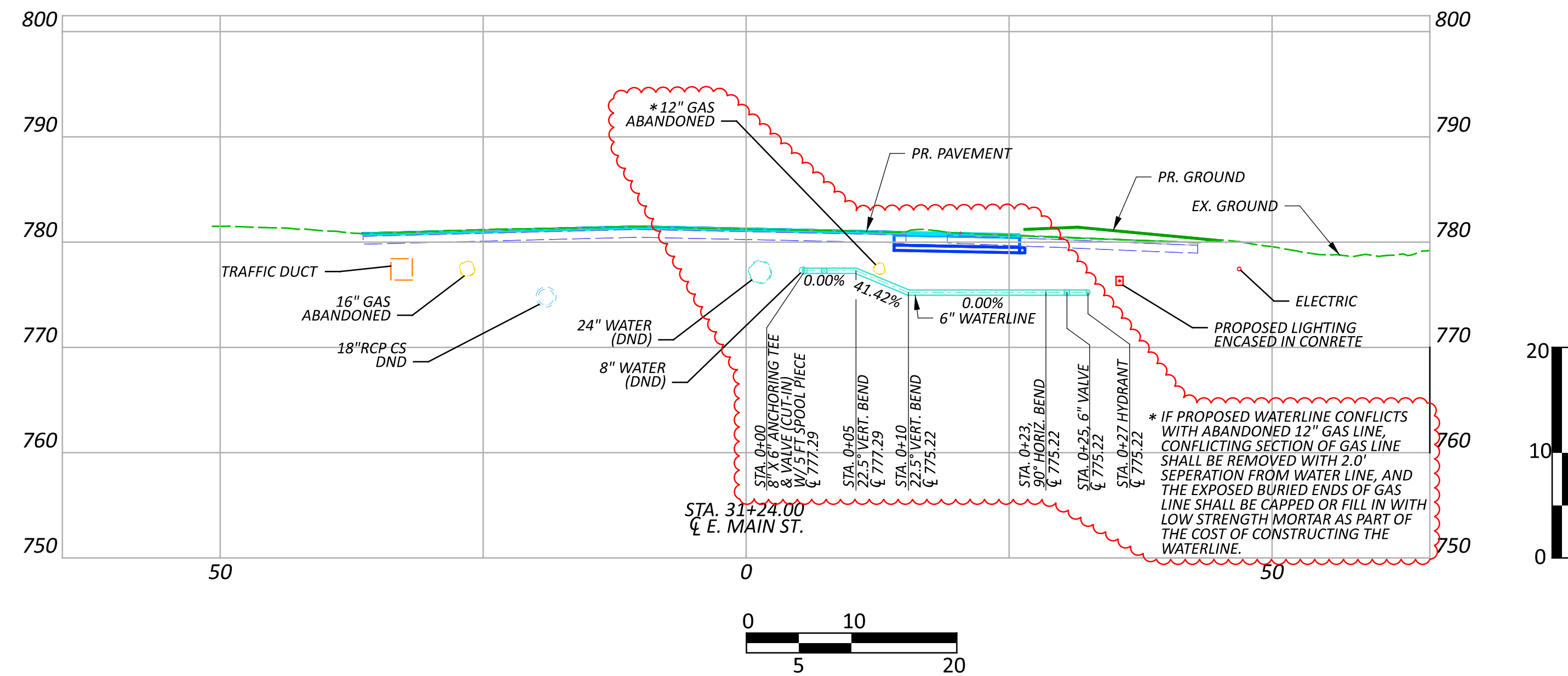
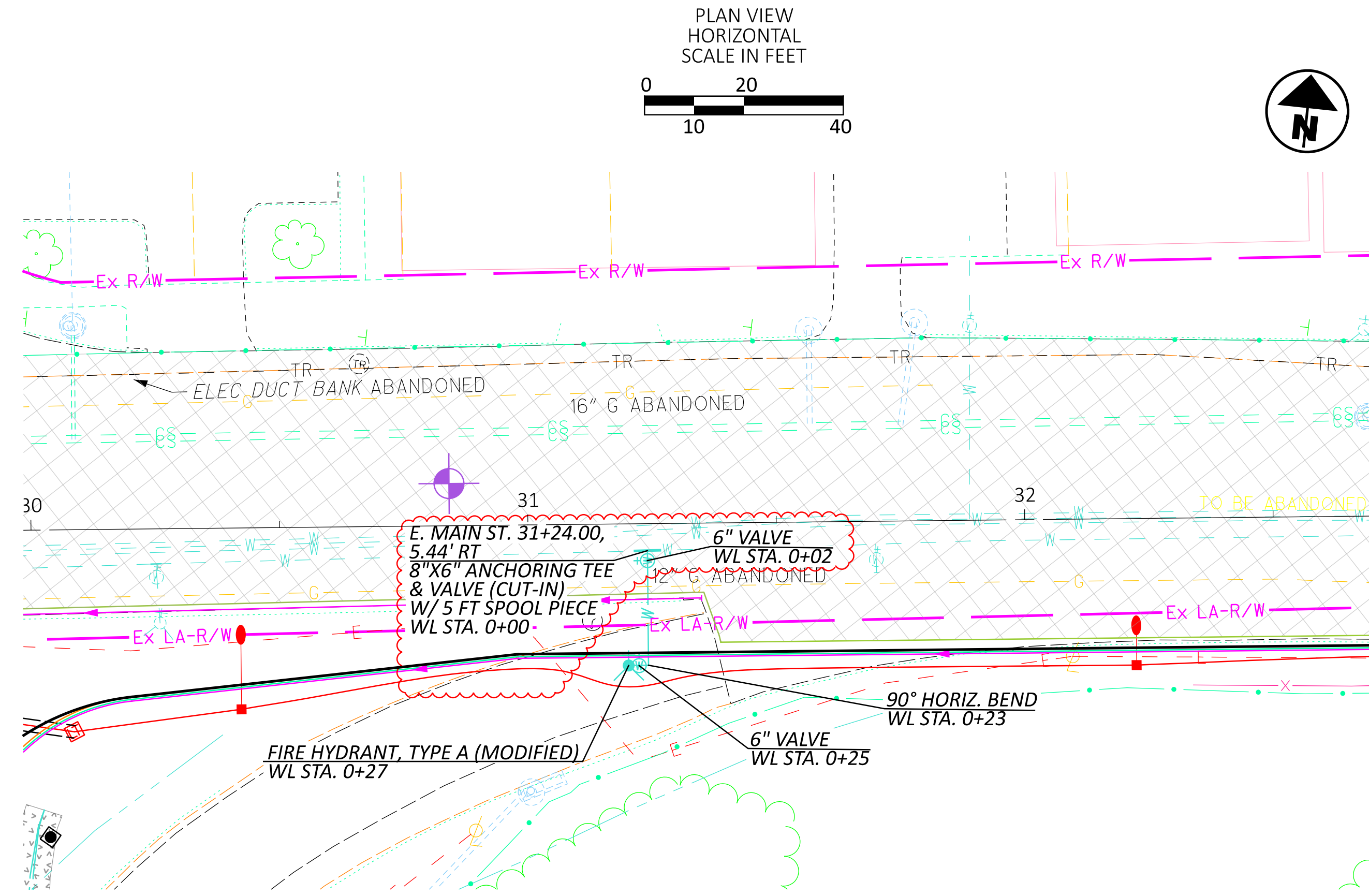
- 8 BEGIN PR. TYPE CLT FENCE STA. 57+20.92, 16.31' LT.
- 9 PR. TYPE CLT FENCE STA. 57+29.80, 11.71' LT. DEF. ANG. 27° 48' 42"
- 10 PR. TYPE CLT FENCE STA. 33+43.98, 29.42' RT. TIE INTO EX. BRIDGE PARAPET

PAVEMENT PLANING & RESURFACING



PLAN - E. MAIN ST.
 STA. 27+00 TO STA. 35+00

DESIGN AGENCY	
DESIGNER	ACW
REVIEWER	TAZ
PROJECT ID	09/25/25
SHEET	123987
TOTAL	P.51 122



6" WATERLINE TO FIRE HYDRANT PLAN & PROFILE
 STA. 31+24.00 - E. MAIN ST.

DESIGN AGENCY

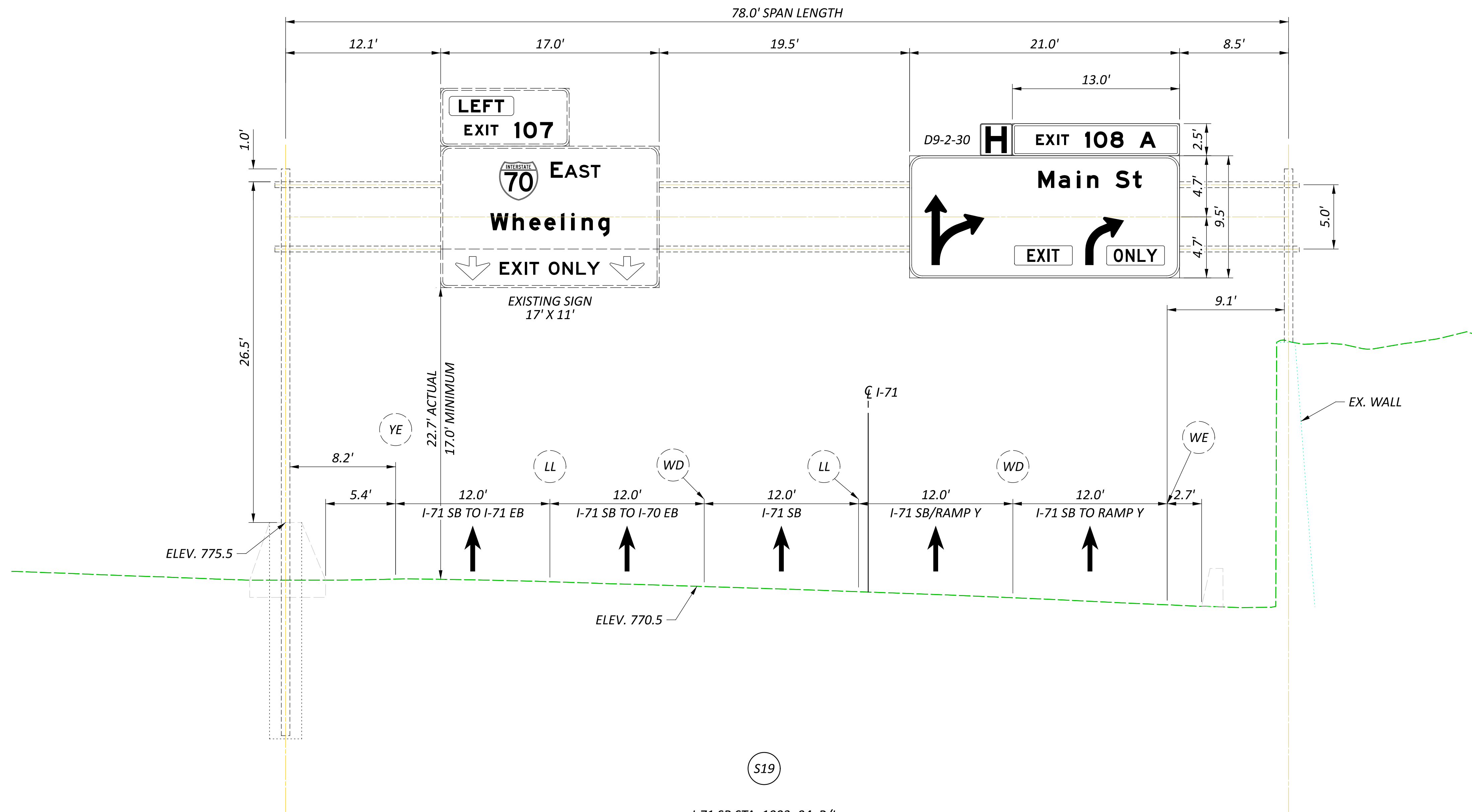


DESIGNER
 ACW

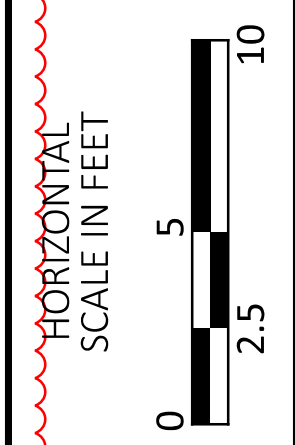
REVIEWER
 CH 12-5-25

PROJECT ID
 123987

SHEET TOTAL
 P.88A 122



(S19)
 I-71 SB STA. 1003+04, R/L
 EXISTING TRUSS TYPE TC-7.65 DESIGN 8
 (LOOKING SOUTHBOUND)



SIGN ELEVATION DETAILS
 SIGN SUPPORT NO. S19

DESIGN AGENCY	
DESIGNER	CLM
REVIEWER	KWR 11/18/25
PROJECT ID	123987
SHEET	P.101
TOTAL	122

ITEM 630 SIGNING, MISC.: TRAFFIC SIGNAL SIGNS

WHEN USED, THE CONTRACTOR SHALL INSTALL W3-3-36 "SIGNAL AHEAD" SIGNS WITH W16-15P-24 "NEW" SUPPLEMENTAL PLACARDS AND POSTS IF REQUIRED JUST PRIOR TO THE SIGNAL BEING PLACED ON FLASH. THE "NEW SIGNAL" AND "SIGNAL AHEAD" SIGNS SHALL BE COVERED UNTIL THE SIGNAL IS PLACED ON REGULAR OPERATION AT WHICH TIME THE CONTRACTOR SHALL UNCOVER THEM.

WHEN USED, THE CONTRACTOR SHALL INSTALL THE W23-H2B-30 "SIGNAL OPERATION CHANGED" SIGN JUST PRIOR TO ACTIVATING THE CHANGE IN SIGNAL OPERATION. THE "SIGNAL OPERATION CHANGED" SIGN SHALL BE COVERED UNTIL THE SIGNAL OPERATION CHANGE IS IN EFFECT AT WHICH TIME THE CONTRACTOR SHALL UNCOVER IT. IN ORDER TO INSTALL THE "SIGNAL OPERATION CHANGED" SIGN AS SHOWN IN THE PLANS, THE CONTRACTOR SHALL SHIFT AN ADJACENT PERMANENT SIGN, WHEN NECESSARY, TO CREATE ENOUGH SPACE TO INSTALL THE "SIGNAL OPERATION CHANGED" SIGN IN THE LOCATION SHOWN IN THE PLANS.

THE CONTRACTOR SHALL REMOVE THESE ITEMS 3 WEEKS AFTER THEY ARE UNCOVERED. AT THE SAME TIME, THE CONTRACTOR SHALL RETURN ANY PERMANENT SIGN, WHICH HAS BEEN TEMPORARILY SHIFTED IN ORDER TO ACCOMMODATE THE "SIGNAL OPERATION CHANGED" SIGN, TO THE LOCATION SPECIFIED IN THE PLANS. FAILURE TO REMOVE THESE ITEMS AND RELOCATE PERMANENT SIGNS SHALL RESULT IN THE CITY REMOVING THEM, ALONG WITH RELOCATING PERMANENT SIGNS, AND BILLING THE CONTRACTOR FOR ALL COSTS INVOLVED. ALL REMOVED MATERIAL SHALL BE CONSIDERED FORFEITED TO THE CITY.

MOUNTING HARDWARE AND POSTS SHALL BE INCIDENTAL TO THIS BID ITEM.

PAYMENT SHALL BE PER THE UNIT PRICE BID TO INSTALL AND REMOVE ALL NECESSARY SIGNS AT EACH INTERSECTION. 11/5/15

ITEM 632 SIGNALIZATION, MISC.: FOUNDATION PRE-EXCAVATION

THE SIGNAL SUPPORT FOUNDATION FOR MAIN ST. S/W-1 SHALL BE EXCAVATED OR VACUUM EXCAVATED TO TEST FOR CONFLICTS PRIOR TO SHOP DRAWINGS APPROVAL.

PAYMENT FOR ITEM 632 SIGNALIZATION, MISC.: FOUNDATION PRE-EXCAVATION SHALL BE MADE AT THE CONTRACT UNIT PRICE FOR EACH FOUNDATION REQUIRING PRE-EXCAVATION. 3/16/18

ITEM 632 INTERCONNECT CABLE, MISC.:CAT 5E CABLE, OUTDOOR RATED

THE CONTRACTOR SHALL INSTALL OUTDOOR RATED CATEGORY 5E CABLE FOR ALL OUTDOOR APPLICATIONS SUSCEPTIBLE TO WATER OR MOISTURE PENETRATION. OUTDOOR RATED CATEGORY 5E CABLE SHALL BE USED TO PROVIDE INTERCONNECTION BETWEEN THE ETHERNET SWITCHES, ITS DEVICES, AND NETWORK INTERFACES AS SHOWN ON THE PLANS.

THE SPECIFICATIONS FOR THE OUTDOOR RATED CATEGORY 5E CABLES SHALL MEET THE FOLLOWING SPECIFICATIONS:

- DOUBLE SHIELD
- ALUMINUM ARMORED
- BARE (AKA PURE) COPPER CONDUCTORS
- CM PVC JACKET
- BLACK COLOR
- 24 AWG
- SOLID CONDUCTOR
- TIA/EIA-568A,ISO/IEC11801,YD/T1019-2001

ALL COMPLETE CABLES (INCLUDING CABLE AND CONNECTORS) SHALL BE CAT 5E CERTIFIED AND TESTED. THE CONTRACTOR SHALL TEST AND CERTIFY EACH CAT 5E CABLE (EXCLUDING PATCH CABLES 10 FEET OR LESS).

ALL CABLING SHALL BE CUT TO PROPER LENGTH BEFORE ASSEMBLY. CABLES SHALL BE NEATLY LASHED TO THE MESSENGER WIRE CABLE WHERE SHOWN IN THE PLANS.

OUTDOOR RATED CATEGORY 5E CABLE WILL BE MEASURED TO THE CABINET, OR DEVICE, PLUS AN ALLOWANCE OF FIVE (5) FEET ON EACH END.

OUTDOOR RATED CATEGORY 5E CABLE WILL BE PAID FOR PER LINEAR FOOT, AND WILL INCLUDE FURNISHING ALL MATERIALS, EQUIPMENT, LABOR AND INCIDENTALS NECESSARY TO COMPLETE THE WORK SPECIFIED. 3/4/16

ITEM 632 INTERCONNECT, MISC.:SPREAD SPECTRUM RADIOS ASSEMBLY RELOCATED

THIS ITEM OF WORK SHALL CONSIST OF RELOCATING THE EXISTING SPREAD SPECTRUM RADIOS ASSEMBLY FROM THE EXISTING TRAFFIC SIGNAL POLE TO THE PROPOSED TRAFFIC SIGNAL POLE AS SHOWN ON THE PLAN. THE CONTRACTOR SHALL RELOCATE THE TWO EXISTING SPREAD SPECTRUM RADIOS, POST, BRACKETS, MOUNTING HARDWARE, AND ANY OTHER MISCELLANEOUS ITEMS ASSOCIATED WITH THE ABOVE LISTED RADIOS ASSEMBLY.

PRIOR TO RELOCATION, THE CONTRACTOR AND THE ENGINEER SHALL INSPECT THE EQUIPMENT AND DOCUMENT ANY EXISTING DAMAGE. ANY DAMAGE IDENTIFIED AFTER THE RELOCATION PROCESS AND NOT PREVIOUSLY DOCUMENTED WILL BE PRESUMED TO HAVE BEEN CAUSED BY THE CONTRACTOR. ANY DAMAGED EQUIPMENT WILL BE REPAIRED OR REPLACED AS DIRECTED BY THE ENGINEER AT THE CONTRACTOR'S EXPENSE.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING A COMPLETE, FUNCTIONAL SYSTEM INCLUDING ALL APPURTENANCES NECESSARY TO ATTACH THE RADIOS ASSEMBLY TO THE PROPOSED POLE.

THE WORK AS DESCRIBED WILL BE MEASURED AS ONE UNIT FOR EACH SPECIFIED RADIOS ASSEMBLY TO BE RELOCATED AND SHALL INCLUDE ALL MATERIALS, EQUIPMENT, AND INCIDENTALS, COMPLETE IN PLACE. MOUNTING HARDWARE AND OTHER MISCELLANEOUS ITEMS AND MATERIALS SHALL BE CONSIDERED INCIDENTAL TO THIS WORK AND NO SEPARATE PAYMENT WILL BE MADE.

ITEM 632 SIGNALIZATION, MISC.: STOP LINE RADAR DETECTION SYSTEM

THIS ITEM OF WORK SHALL CONSIST OF FURNISHING AND INSTALLING A STOP LINE RADAR DETECTION SYSTEM. EACH RADAR DETECTOR UNIT SHALL BE MOUNTED DIRECTLY TO A POLE, MAST ARM, OR BRACKET ARM AS SHOWN ON THE PLAN OR AS RECOMMENDED BY THE MANUFACTURER. MOUNTING HARDWARE AND CABLE CONNECTIONS SHALL BE INSTALLED PER CURRENT MANUFACTURER SPECIFICATIONS. THE SENSOR SHALL BE GROUNDED TO THE GROUND LUG OF THE SIGNAL POLE PER CURRENT MANUFACTURER SPECIFICATIONS.

THE DETECTION SYSTEM SHALL INCLUDE THE FOLLOWING:

1. RADAR DETECTOR UNITS APPROVED THROUGH THE OHIO DEPARTMENT OF TRANSPORTATION'S TRAFFIC AUTHORIZED PRODUCTS LIST AND AS SHOWN IN THE PLANS.
2. SHELF-MOUNTED CABINET INTERFACE DEVICE WITH FOUR (4) RADAR UNIT CABLE INPUTS, COMPATIBLE WITH ITEM 1 IN THIS NOTE, TO PROVIDE POWER, SURGE PROTECTION, AND ETHERNET CONNECTIVITY FOR THE RADAR DETECTOR UNITS.
3. CONTACT CLOSURE DEVICES IF NECESSARY OR AS RECOMMENDED BY THE MANUFACTURER TO CONNECT TO THE TRAFFIC CONTROLLER AND BE COMPATIBLE WITH CITY OF COLUMBUS SIGNAL CABINETS. IF USED, THE DEVICES SHALL BE SECURED TO A SINGLE PANEL THAT CAN BE MOUNTED INTERIOR TO THE TRAFFIC SIGNAL CABINET.
4. SENSOR CABLE(S) SHALL BE PROVIDED AS REQUIRED AND AS RECOMMENDED BY THE MANUFACTURER. THE CABLE SHALL BE SUITABLE FOR INSTALLATION IN CONDUIT AND OVERHEAD WITH APPROPRIATE SPAN WIRE. THE DETECTOR CABLE SHALL BE RUN CONTINUOUSLY FROM THE DETECTOR UNIT TO THE CONTROLLER CABINET (NO SPLICES).
5. AN ETHERNET CABLE (MINIMUM 7 FEET).

A CITY SIGNAL MAINTENANCE REPRESENTATIVE SHALL BE ON SITE DURING INSTALLATION AND TESTING OF THE UNIT.

PAYMENT FOR ITEM 632 SIGNALIZATION, MISC.: STOP LINE RADAR DETECTION SYSTEM SHALL BE MADE AT THE CONTRACT UNIT PRICE FOR EACH SYSTEM, COMPLETE AND IN PLACE INCLUDING ALL REQUIRED DETECTOR UNITS, CABINET HARDWARE, MOUNTING BRACKETS, CABLES, AND CONNECTIONS TESTED AND ACCEPTED. 6/8/18

TRAFFIC CONDUIT CONTROLLER CABINET DAMAGE

THE EXISTING TRAFFIC SIGNAL CONTROLLER CABINET AND CONDUITS SHALL NOT BE DISTURBED. CAUTION SHALL BE USED TO AVOID DAMAGING THE EXISTING CABINET, CABINET FOUNDATION, CONDUITS, AND CABLES CONTAINED WITHIN.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR OR REPLACEMENT OF THE ABOVE ITEMS IN THE EVENT THAT THEY ARE DAMAGED, AS DETERMINED BY THE CITY OF COLUMBUS DIVISION OF TRAFFIC MANAGEMENT. IF FULL CABINET REPLACEMENT IS NECESSARY AS A RESULT OF THE DAMAGE, DETAILED PLANS FOR THE CABINET WILL BE REQUIRED AND WILL BE PROVIDED AT THE CONTRACTOR'S EXPENSE.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY REPAIRS RESULTING FROM EXCAVATION IN WHICH THE SOIL SURROUNDING THE CABINET BECOMES COMPROMISED CAUSING THE CABINET TO LEAN OR SHIFT FROM ITS ORIGINAL LOCATION AS DETERMINED BY THE CITY OF COLUMBUS DIVISION OF TRAFFIC MANAGEMENT.

IN THE EVENT THAT DAMAGE CAUSES THE TRAFFIC SIGNAL TO BECOME NON-OPERATIONAL, A LAW ENFORCEMENT OFFICER SHALL BE USED AT THE CONTRACTOR'S EXPENSE TO DIRECT TRAFFIC AT THE SIGNAL UNTIL THE SIGNAL IS RETURNED TO FULL OPERATION. 3/3/17

ITEM 632 STRAIN POLE FOUNDATION, AS PER PLAN, (BY DEPTH)

FOR SIGNAL POLES MOUNTED TO DEEP FOUNDATIONS CONSTRUCTED UNDER THIS ITEM, THE ALUMINUM POLE IDENTIFICATION TAG, AS REQUIRED AND IN ACCORDANCE WITH 732.11 AND 732.12, SHALL ALSO BE LABELED WITH "DEEP FOUNDATION" FOLLOWED BY THE DEPTH OF THE FOUNDATION (E.G. DEEP FOUNDATION, 18 FT). THE FOUNDATION SHALL BE CONSTRUCTED IN ACCORDANCE WITH 632.14, SCD 4160, AND SCD 4161. 5/15/18

ITEM 632 STRAIN POLE, MISC.: TYPE 4170, (BY DESIGN)

THIS ITEM OF WORK SHALL COMPLY WITH CITY OF COLUMBUS STANDARD CONSTRUCTION DRAWING 4170 AND CMSC REQUIREMENTS OF 732.11 AND 732.12.

THIS ITEM OF WORK SHALL BE MEASURED AS EACH COMPLETE SIGNAL SUPPORT OR STRAIN POLE IN PLACE IN ESSENTIALLY A VERTICAL POSITION UNDER FULL PLAN LOADING. ALL LABOR, EQUIPMENT, AND MATERIALS NECESSARY TO PURCHASE, TRANSPORT, STORE, ERECT, ADJUST, AND REPAIR THE SIGNAL SUPPORT OR STRAIN POLE SHALL BE INCLUDED FOR PAYMENT IN THE BID ITEM. PAYMENT SHALL BE AS PER ITEM 632.

DESIGN AGENCY



DESIGNER
CLM

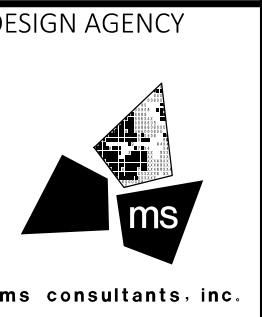
REVIEWER
KWR 11/12/25

PROJECT ID
123987

SHEET TOTAL
P.103 | 122

REF NO.	SHEET NO.	STATION TO STATION	625	630	630	630	630	632	632	632	632	632	632	632	632	632	632	632	632	632	
			GROUND ROD	SIGN HANGER ASSEMBLY, SPAN WIRE	SIGN SUPPORT ASSEMBLY, POLE MOUNTED	SIGN, FLAT SHEET	SIGNING, MISC.:TRAFFIC SIGNAL SIGNS	COVERING OF VEHICULAR SIGNAL HEAD	MESSENGER WIRE, 7 STRAND, 7/16" DIAMETER WITH ACCESSORIES	TETHER WIRE, WITH ACCESSORIES	SIGNAL CABLE, 7 CONDUCTOR, NO. 14 AWG	VEHICULAR SIGNAL HEAD, (LED), 3-SECTION, 12" LENS, 1-WAY, POLYCARBONATE	INTERCONNECT CABLE, MISC.:CAT 5E CABLE, OUTDOOR RATED	INTERCONNECT, MISC.:SPREAD SPECTRUM RADIOS ASSEMBLY RELOCATED	STRAIN POLE FOUNDATION, AS PER PLAN, 20' DEEP	STRAIN POLE, MISC.:TYPE 4170, DESIGN 11	REMOVAL OF TRAFFIC SIGNAL INSTALLATION	SIGNALIZATION, MISC.:FOUNDATION PRE-EXCAVATION	SIGNALIZATION, MISC.:STOP LINE RADAR DETECTION		
EACH	EACH	EACH	EACH	SF	EACH	EACH	EACH	FT	FT	FT	EACH	FT	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	
P.105		MAIN ST. INTERSECTION	4	3	1	25	1	8	435	435	478	8	84	1	4	4	1	1	1		
TOTALS CARRIED TO GENERAL SUMMARY			4	3	1	25	1	8	435	435	478	8	84	1	4	4	1	1	1		

TRAFFIC SIGNAL
SUB-SUMMARY



DESIGNER: CLM
 REVIEWER: JML 11/12/25
 PROJECT ID: 123987
 SHEET: P.104 TOTAL: 122

TRAFFIC SIGNAL INSTALLATION REMOVAL CHART

ALL EXISTING SIGNAL ITEMS NOT LISTED IN THE REMOVAL CHART ARE EXISTING TO REMAIN

QUANTITY	REMOVED ITEM DESCRIPTION	DISPOSED OF BY PROJECT	RELOCATED BY THE PROJECT
LUMP	SIGNAL CABLE, CONDUIT & MESSENGER WIRE	X	
2	VEHICULAR SIGNAL HEAD, 1-WAY	X	
2	VEHICULAR SIGNAL HEAD, 2-WAY	X	
2	SPAN MTD. SIGN	X	
1	EMBEDDED SIGNAL POLE	X	
1	POLE FOUNDATION	X	
1	SPREAD SPECTRUM RADIOS ASSEMBLY		X

EX. PEDESTAL (TO REMAIN)
W/(1) - EX. PEDESTRIAN SIGNAL HEAD (TO REMAIN)
STA. 28+84.4, 52.2' LT.

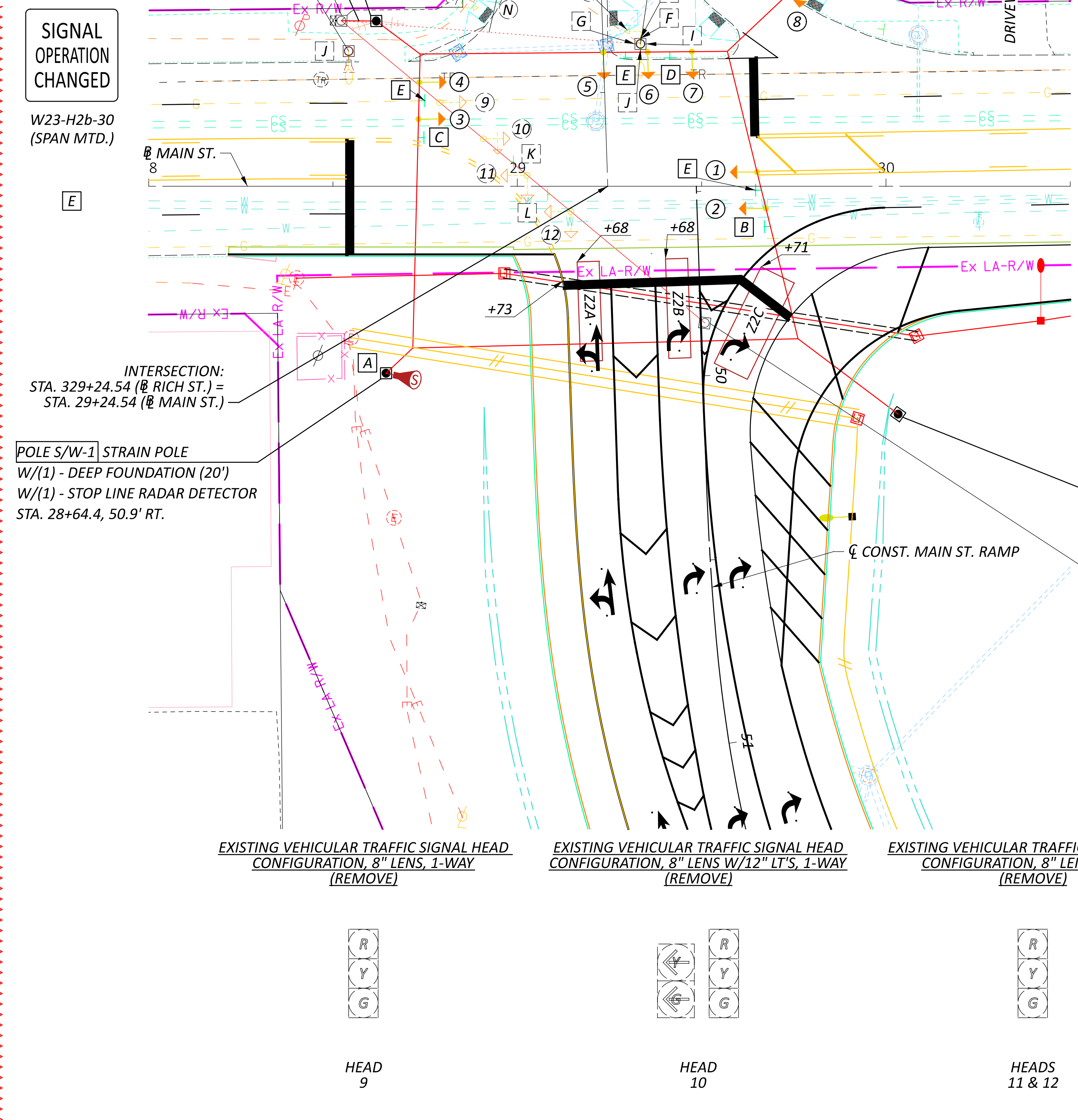
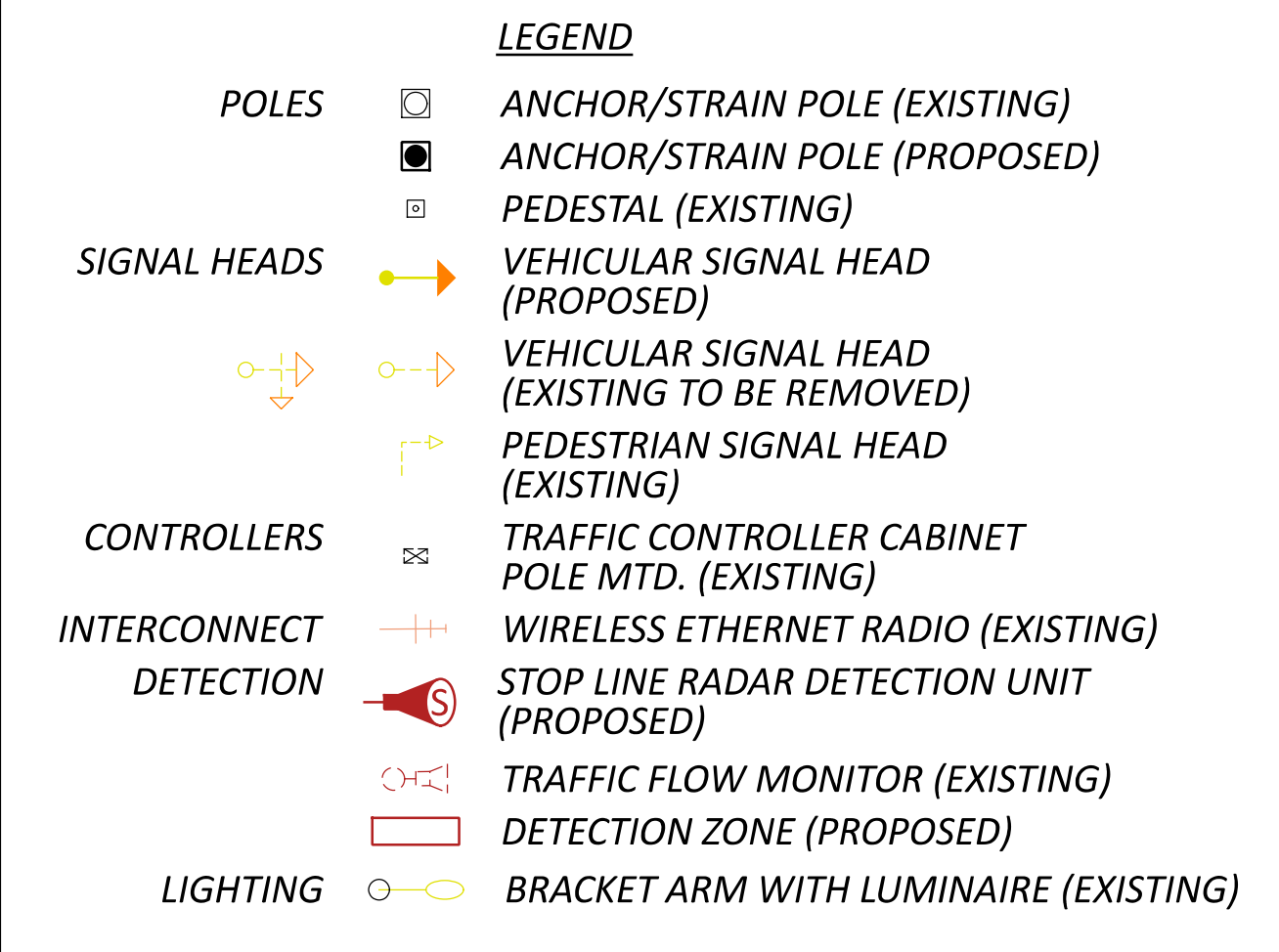
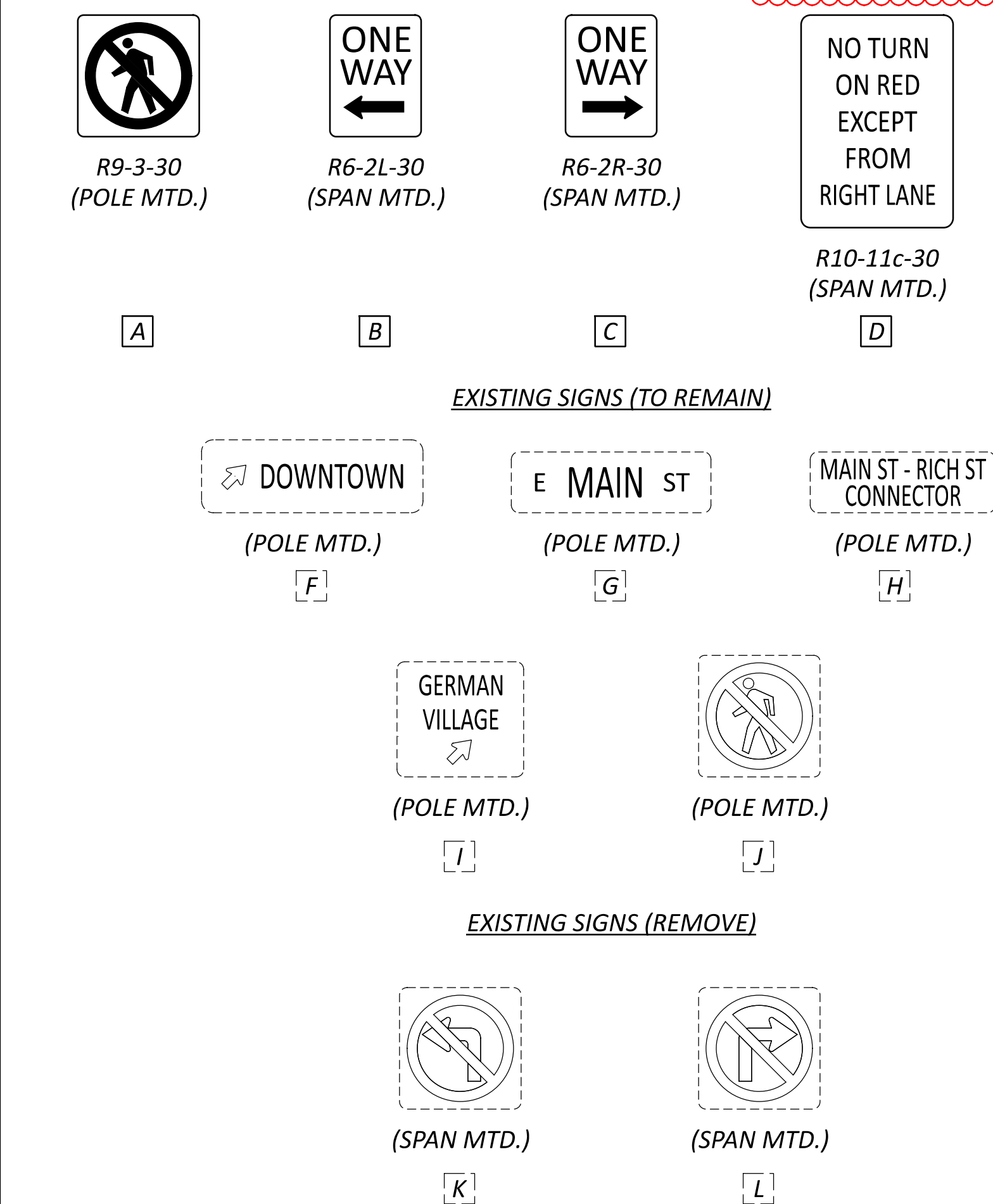
EX. CONDUIT (DO NOT DISTURB)
W/ - EX. SIGNAL CABLE (TO REMAIN)

POLE N/W-1 STRAIN POLE
W/(1) - DEEP FOUNDATION (20')
W/(2) - EX. WIRELESS ETHERNET RADIOS (RELOCATED)
STA. 28+61.7, 44.8' LT.

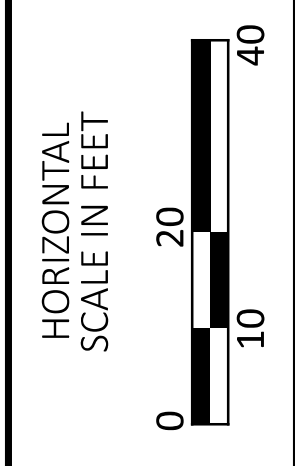
MESSENGER WIRE W/ (3)-7/C, (2)-CAT5E, & (1)-RADAR AERIAL = 9'

EX. STRAIN POLE (TO REMAIN)
W/(1) - EX. POLE MOUNTED CABINET AND CONTROLLER (TO REMAIN)
STA. 28+52.3, 44.9' LT.

EX. POLE (TO REMAIN)
W/(1) - EX. BRACKET ARM WITH LUMINIARE (TO REMAIN)
W/(1) - EX. TRAFFIC FLOW MONITOR (TO REMAIN)
STA. 28+54.3, 36.6' LT.



- NOTES:**
- CENTER ALL LOOPS OR DETECTION ZONES IN THE CENTER OF THEIR LANE, UNLESS SPECIFIED OTHERWISE. INSTALL LOOPS AFTER THE ASPHALT SURFACE COURSE IS LAID.
 - DO NOT ENCASE THE GROUND ROD, THE GROUNDING WIRE, OR THE CONDUIT ENDS IN CONCRETE THAT FALL OUTSIDE OF THE FOUNDATION. FULL ACCESS TO THESE ITEMS MUST BE MAINTAINED AT ALL TIMES. PERMANENTLY MARK THE TOP OF FOUNDATION CONCRETE, WITH A MARKER OR SYMBOL SO THE ROD LOCATION CAN BE IDENTIFIED BY OTHERS.
 - THE CONTRACTOR SHALL NOT INSTALL POLE FOUNDATIONS UNTIL THE POLE LOCATION AREA IS AT FINISHED GRADE.
 - EXPANSION MATERIAL SHALL BE USED BETWEEN ALL FOUNDATIONS AND ADJACENT SIDEWALKS.
 - N/A.
 - N/A.
 - N/A.
 - N/A.
 - TAGGING OF CABLE IN THE PULL BOX IMMEDIATELY ADJACENT TO THE CONTROLLER CABINET IS NOT REQUIRED EXCEPT FOR TAGGING OF CERTAIN CABLE AS DIRECTED BY THE PROJECT ENGINEER, OR AS PER PLAN.
 - ALL CABLES, UNLESS SPECIFIED IN THE PLANS, ARE TO BE ROUTED INSIDE THE ANCHOR BASE SIGNAL SUPPORT POLE OR PEDESTAL. CABLES NOT SERVING A GIVEN POLE OR PEDESTAL SHALL NOT BE ROUTED THROUGH THE POLE.
 - N/A.
 - N/A.
 - ALL CLAMPS AND BANDING MATERIAL SHALL BE PAINTED TO MATCH THE SIGNAL SUPPORTS.



TRAFFIC SIGNAL MODIFICATION PLAN
I-71 SOUTHBOUND EXIT RAMP AT MAIN ST.

DESIGN AGENCY

DESIGNER: CLM

REVIEWER: JML 08/14/25

PROJECT ID: 123987

SHEET: P.105 TOTAL: 122

FIELD WIRING HOOK-UP CHART

SIGNAL HEAD #	INDICATION	FIELD TERMINAL	FLASH
1, 2, 3, 4 (EB, WB)	R	Ø1 R	R
	Y	Ø1 Y	
	G	Ø1 G	
5, 6, 7, 8 (NB)	R	Ø2 R	R
	Y	Ø2 Y	
	G	Ø2 G	
N (NORTH)	WALK	G (Ø1) - W (EXISTING)	OFF
	DON'T WALK	G (Ø1) - DW (EXISTING)	

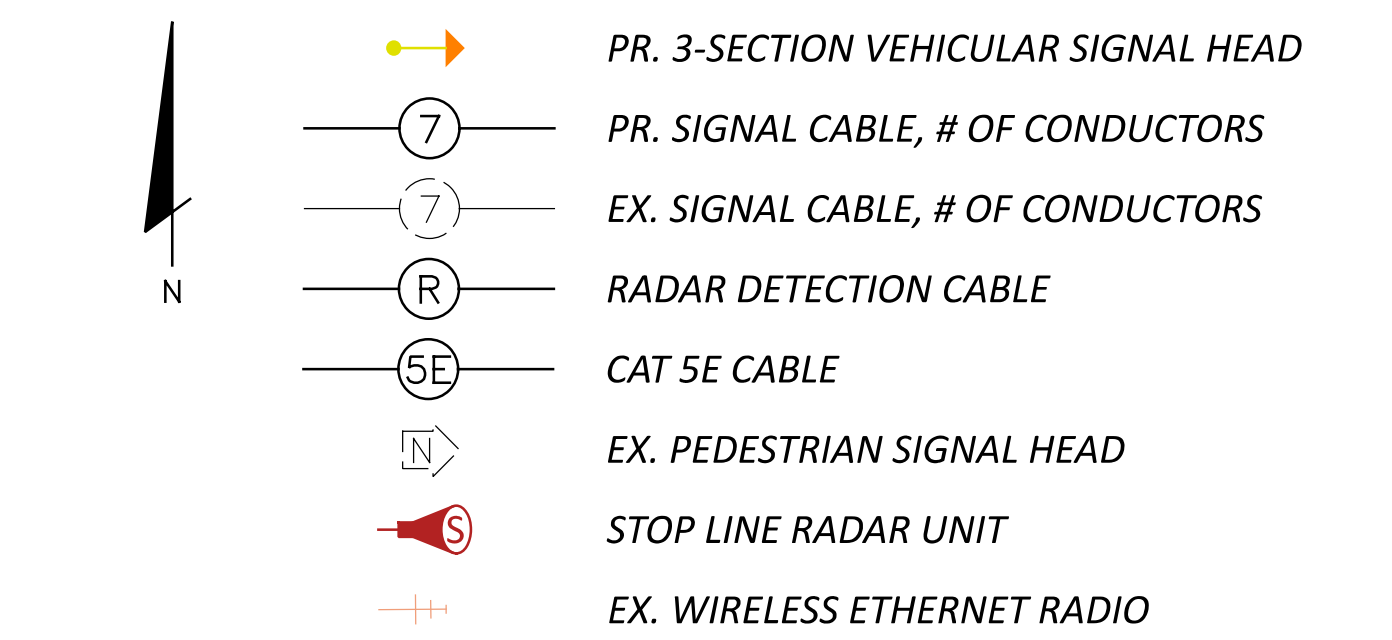
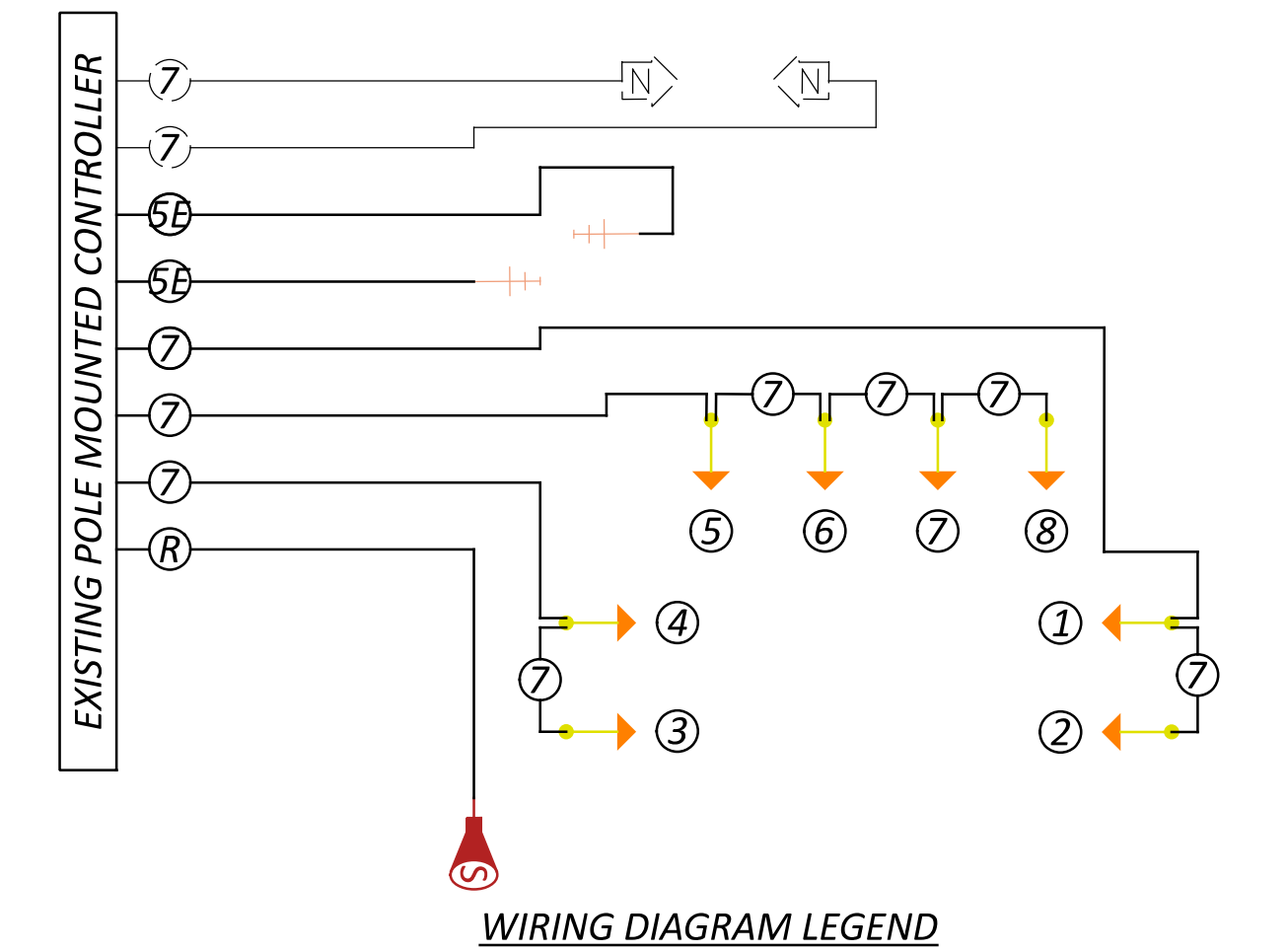
DETECTOR ASSIGNMENTS

DETECTION ZONE (#)	RADAR DETECTOR (#)	PHASE	DETECTION ZONE SIZE (W' X L')	PRESENCE	PURPOSE	DELAY DATA	
						DELAY (SEC.)	INHIBIT DELAY DURING GREEN (PHASE)
Z2A	1	Ø2	6' X 40'	X	CALL/EXTEND	0	2
Z2B	1	Ø2	6' X 40'	X	CALL/EXTEND	0	2
Z2C	1	Ø2	5.5' X 40'	X	CALL/EXTEND	12	2

TIMING CHART

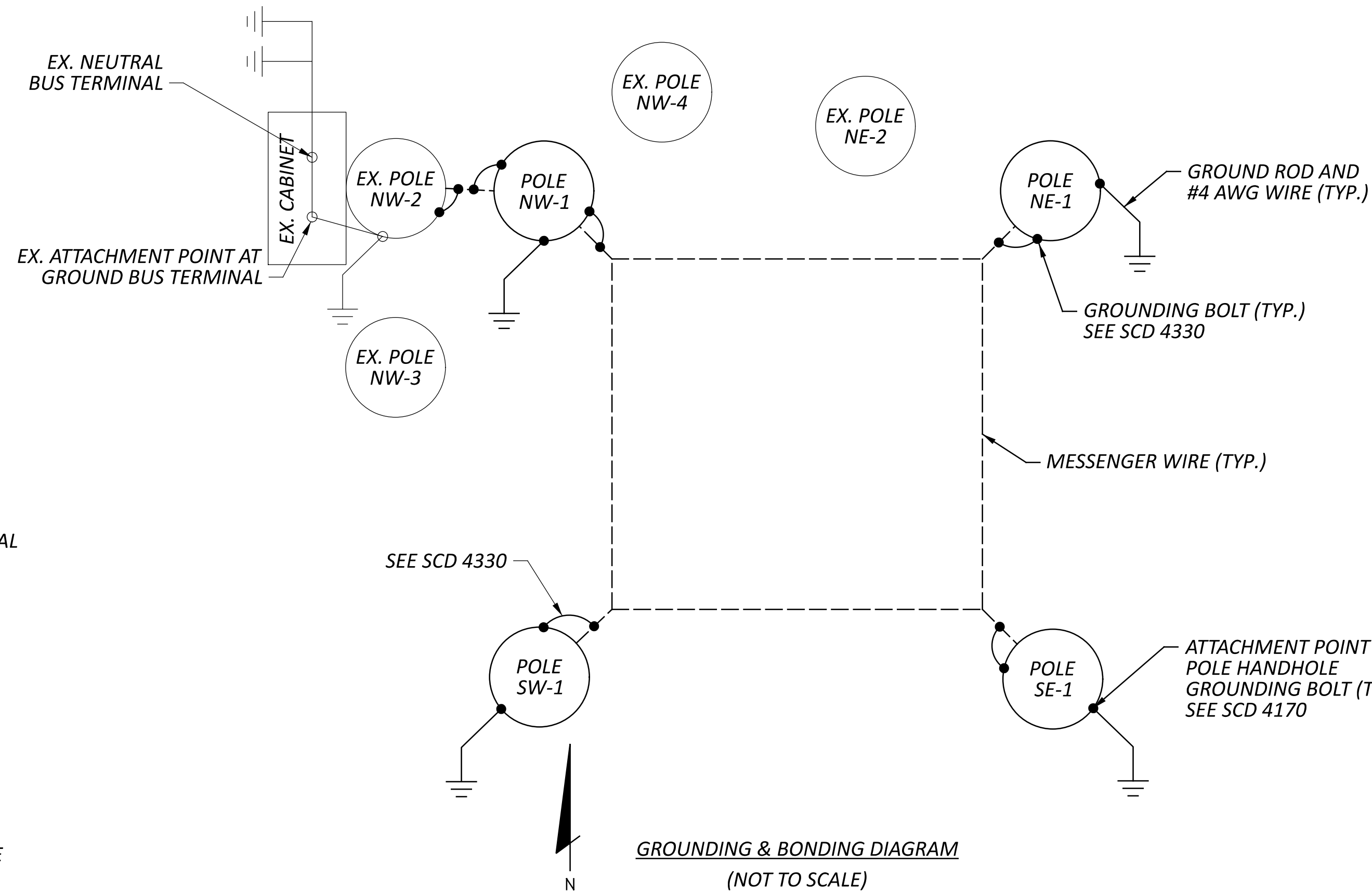
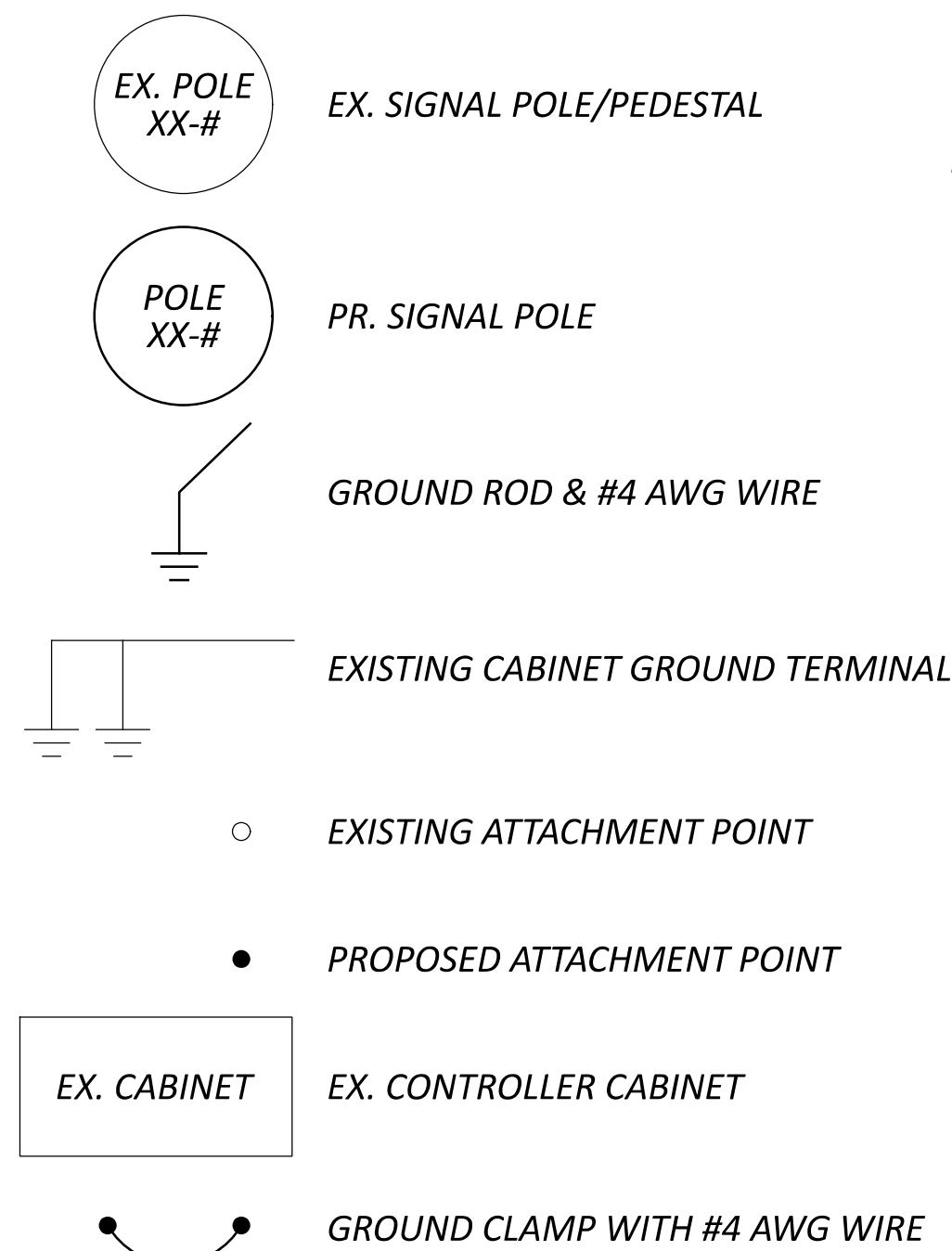
PHASE	Ø1	Ø2	Ø3	Ø4
MOVEMENT	WB/EB	NB	-	-
MIN INITIAL	20	10	-	-
WALK	7	-	-	-
PED CHANGE	4	-	-	-
PASS / EXIT	-	3.7	-	-
YELLOW	3.4	3.2	-	-
RED CL	2.3	1	-	-
MAX GRN 1	45	35	-	-
MAX GRN 2	60	35	-	-
MAX GRN 3	30	35	-	-
PED RECAL	ON	OFF	-	-
VEH RECALL	MAX	OFF	-	-
MEMORY	ON	OFF	-	-

WIRING DIAGRAM



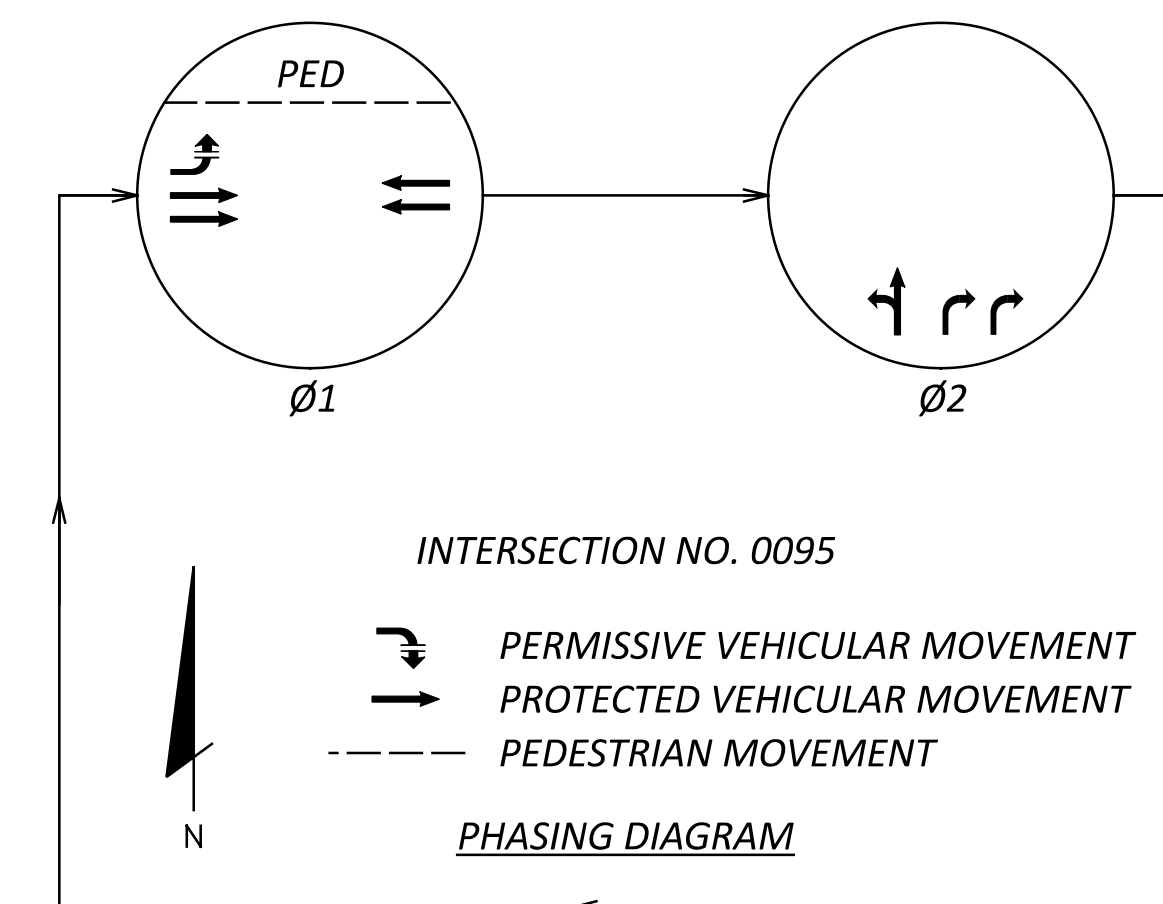
NOTE: ONLY PROPOSED SIGNAL ITEMS AND EXISTING PEDESTRIAN SIGNALS ARE SHOWN. ALL OTHER SIGNAL ITEMS, INCLUDING POWER AND INTERCONNECT, ARE EXISTING TO REMAIN.

GROUNDING & BONDING DIAGRAM LEGEND



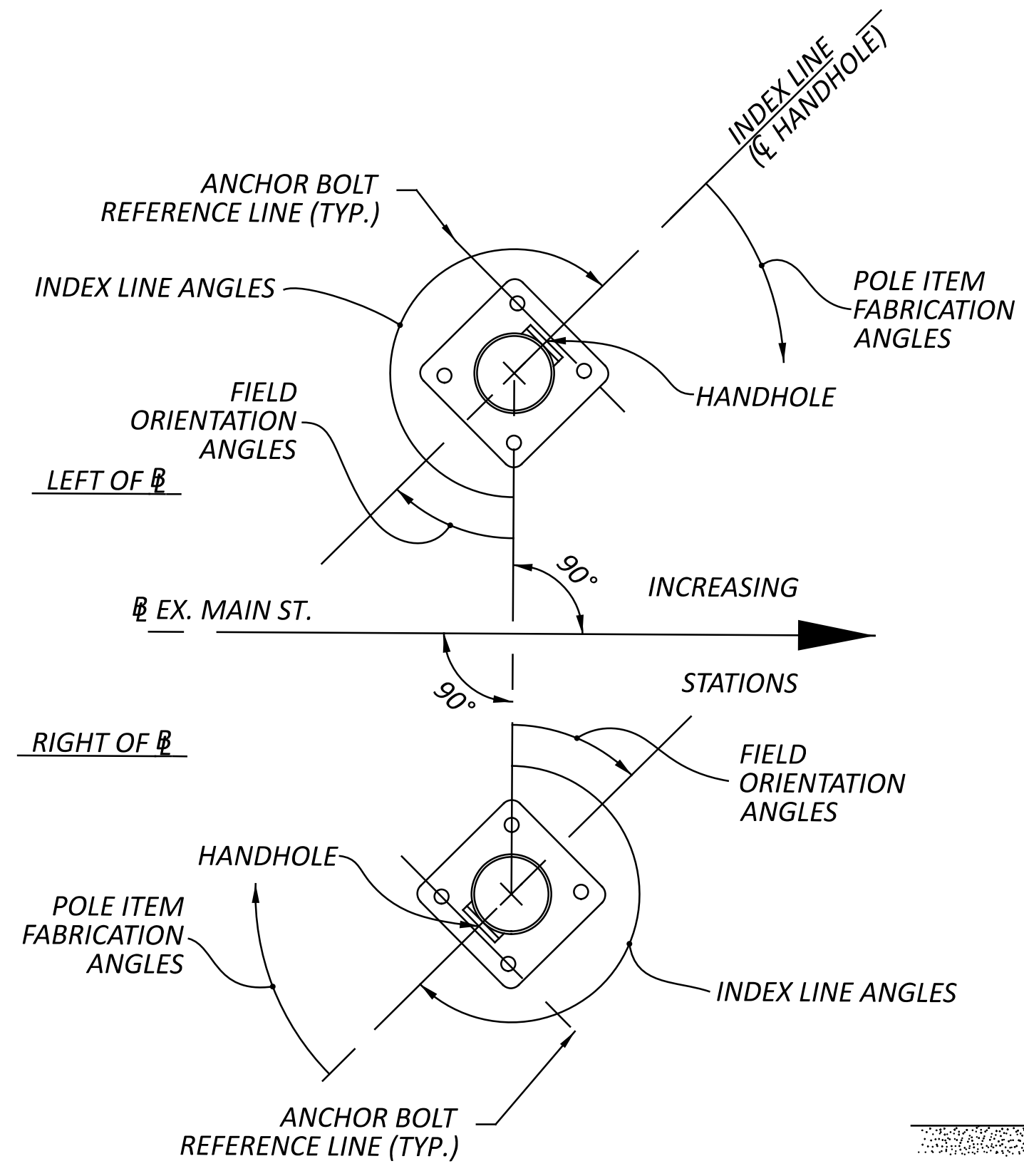
NOTE: ONLY PROPOSED GROUNDING IS SHOWN. ALL OTHER GROUNDING IS EXISTING TO REMAIN.

PHASING DIAGRAM



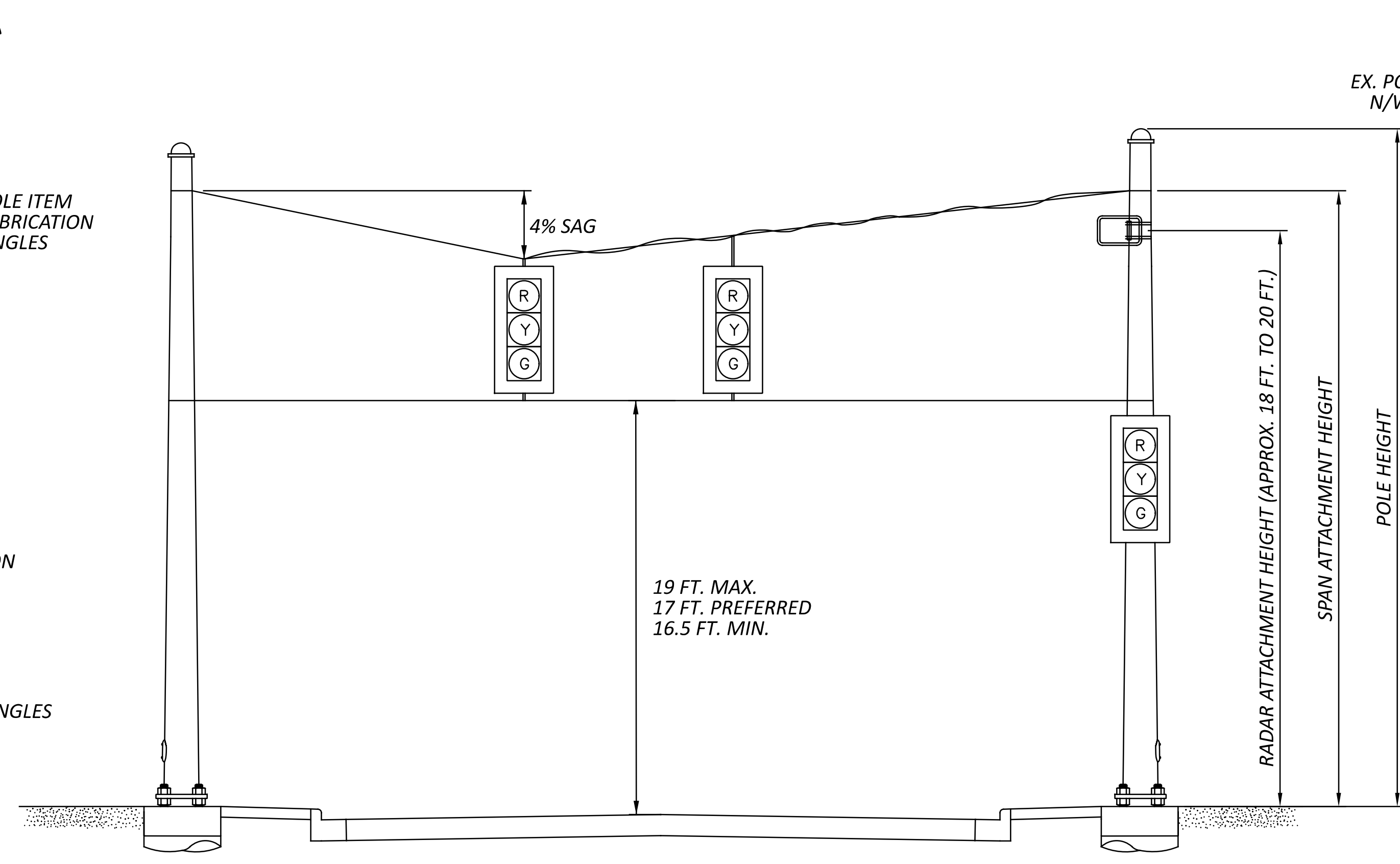
POLE FABRICATION AND ORIENTATION DATA CHART

INTERSECTION	SHEET NO.	POLE SIZES & ATTACHMENT HEIGHTS						POLE FABRICATION DATA CLOCKWISE FROM HANDHOLE AT 0 DEGREES			FIELD ORIENTATION			
		POLE DESIGNATION	POLE COLOR/ FEDERAL STANDARD 595B	POLE DESIGN NO. (STD DWG 4170)	POLE HT. (FT.)	SPAN ATTACHMENT HT. (FT.)	RADAR DETECTOR (FT.)	ANCHOR BOLT REF. LINE	2" BHC ANGLE-HT. DEG.-FT.	3" BHC ANGLE-HT. DEG.-FT.	INDEX LINE ANGLE (HANDHOLE)	ANCHOR BOLT REF. LINE	CAPPED FOUNDATION CONDUIT ELLS 2-2" DIA.	FOUNDATION ELEVATION
I-71 SB EXIT RAMP AT MAIN ST.	P.105	N/W-1	UNCOATED (GALVANIZED)	11	31.0'	27.5'	-	90°	-	180° - 28.5'	127°	37°	270°	778.3
		N/W-2	EXISTING	EXISTING	26.5' (EX.)	26.0'	-	90°	-	EXISTING	EXISTING	EXISTING	EXISTING	778.2
		N/E-1	UNCOATED (GALVANIZED)	11	33.0'	29.0'	-	90°	180° - 30.0'	-	227°	137°	47°	779.2
		S/E-1	UNCOATED (GALVANIZED)	11	34.0'	30.5'	-	90°	180° - 31.5'	-	127°	37°	0°	776.5
		S/W-1	UNCOATED (GALVANIZED)	11	29.0'	26.0'	19.0'	90°	180° - 27.0'	-	227°	137°	0°	778.7

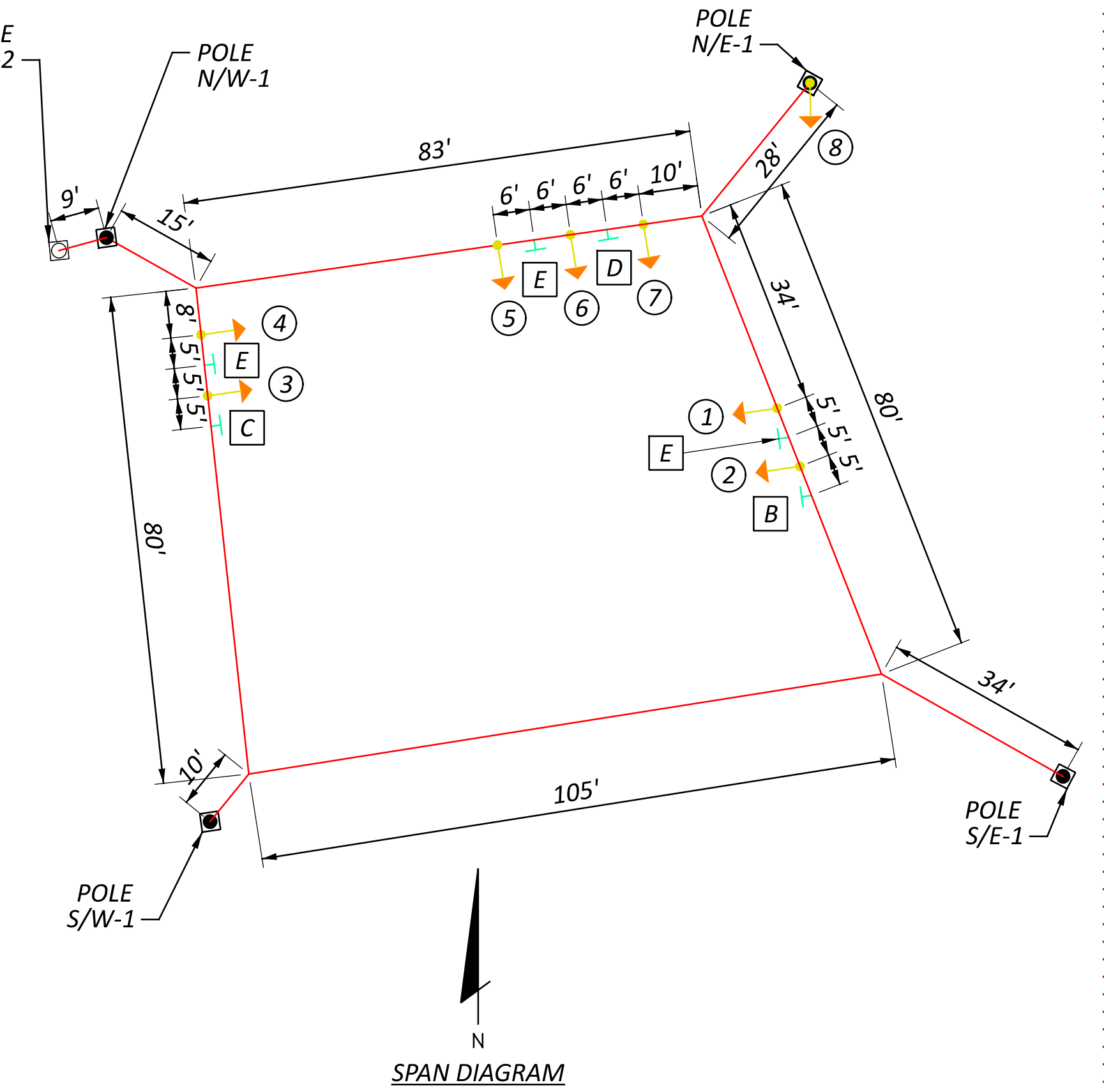


TYPICAL STRAIN POLE ORIENTATION DETAIL
NOT TO SCALE

- NOTES:
- ALL ANGLES ARE MEASURED CLOCKWISE.
 - THE INDEX LINE GOES THROUGH THE CENTER OF THE HANDHOLE.



TYPICAL SIGNAL ELEVATION
NOT TO SCALE



- NOTE:
1. THE LOWEST SIGNAL HEAD HEIGHT IN EACH DIRECTION SHALL BE SET AT 17' PREFERRED, 16.5' MINIMUM. ADJUST THE SPAN ACCORDINGLY.
 2. THE DIMENSIONS SHOWN ON THE SPAN DIAGRAM ARE ESTIMATES. FINAL HEAD POSITIONS SHALL BE ON THE LANE LINE, CHANNEL LINE OR ON THE LANE CENTERLINE. THE DISTANCE BETWEEN THE HEADS SHALL BE AS INDICATED.

FRA-71-17.22

MODEL: Sheet PAPER: 34x22 (in.) DATE: 3/6/2026 TIME: 12:13:18 PM PLOT: PLOTDRY: OHDOT_PDF_Color.plt USER: CMengelkamp@msconsultants.com WORKSPACE: OHDOTCEV02 WORKSET: 123987 PRODUCT: OpenRoadsDesigner 24.00.02.25

TRAFFIC SIGNAL DETAILS
I-71 SOUTHBOUND EXIT RAMP AT MAIN ST.

DESIGN AGENCY
ms consultants, inc.

DESIGNER
CLM

REVIEWER
KWR 11/12/25

PROJECT ID
123987

SHEET TOTAL
P.107 | 122

CITY OF COLUMBUS

THE CITY STREET LIGHT INSTALLATIONS SHALL CONFORM TO THE CITY OF COLUMBUS, DIVISION OF POWER (DOP) MATERIAL AND INSTALLATION SPECIFICATIONS (MIS) SUPPLEMENTED BY THE 2025 CITY OF COLUMBUS CONSTRUCTION AND MATERIAL SPECIFICATIONS (CMSC)

POWER SERVICE

THE POWER SUPPLY AGENCY FOR THE CITY STREETS PORTION OF THIS PROJECT IS:

CITY OF COLUMBUS, DIVISION OF POWER (DOP)
 3500 INDIANOLA AVENUE
 COLUMBUS, OH 43214
 614-645-7627

- EXISTING CONTROL CENTER (CIRCUIT #55) ON S. WASHINGTON AVENUE BETWEEN E. MAIN STREET & E. CHERRY STREET.

FOR THE DIVISION OF POWER

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

ANY PROJECT, BOTH PUBLIC OR PRIVATE, WITH IMPACTS REQUIRING RELOCATION, SUPPORT, PROTECTION, OR ANY OTHER ACTIVITY CONCERNED WITH THE CITY'S ELECTRICAL FACILITIES IN THE CONSTRUCTION AREA IS TO BE PERFORMED BY THE CONTRACTOR UNDER THE DIRECTION OF DOP PERSONNEL AND AT THE EXPENSE OF THE PROJECT.

UNLESS PREVIOUSLY AUTHORIZED, DOP SHALL MAKE ALL FINAL CONNECTIONS TO DOP'S EXISTING ELECTRICAL SYSTEM AT THE EXPENSE OF THE PROJECT.

NO PERSON SHALL WORK ON DOP FACILITIES UNLESS THEY HAVE COMPLETED CONTRACTOR SAFETY ORIENTATION WITH DOP. ANY PERSON WORKING ON DOP FACILITIES ON LIVE CONDUCTORS OR CONDUCTORS THAT MAY BECOME LIVE SHALL COMPLY WITH DOP'S CONDUCTOR SAFETY POLICY (TDMIS-1603), HOLD CARD SYSTEM (TDMIS-1604) AND STREET LIGHT LOCK OUT TAG OUT PROCEDURE (MIS-1). PRIOR TO BEGINNING WORK ON DOP FACILITIES, EACH PERSON SHALL CONTACT DOP'S DISPATCH OFFICE AT 614-645-7627 AND PROVIDE THEIR NAME, PHONE NUMBER, LOCATION, DESCRIPTION OF WORK AND CIRCUIT NUMBER. AT COMPLETION OF WORK, EACH PERSON SHALL NOTIFY DOP'S DISPATCH OFFICE.

THE CONTRACTOR SHALL USE MATERIAL AND MAKE REPAIRS TO A CITY OF COLUMBUS STREET LIGHTING SYSTEM BY FOLLOWING DOP'S "MATERIAL AND INSTALLATION SPECIFICATIONS" (MIS) AND THE CITY OF COLUMBUS "CONSTRUCTION AND MATERIAL SPECIFICATIONS" (CMSC). ANY NEW OR RE-INSTALLED STREET LIGHT SYSTEM SHALL REQUIRE TESTING AS REFERRED TO IN SECTION 1001.18 OF THE CMSC MANUAL. CONTRACTORS WORKING ON STREET LIGHTING SHALL CONFORM TO DOP'S EXISTING STREET LIGHT LOCKOUT/TAGOUT (LOTO) PROCEDURE, MIS-1, COPIES OF WHICH ARE AVAILABLE FROM DOP AND ON THE CITY WEBSITE.

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

STREET LIGHTING NOTES

THE STREET LIGHTING SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CURRENT CITY OF COLUMBUS, OHIO "CONSTRUCTION AND MATERIAL SPECIFICATIONS" (2018 EDITION, SECTION 1001, TITLED "STREET LIGHTING"), INCLUDING ALL SUPPLEMENTS THERETO, IN FORCE ON THE DATE OF THE CONTRACT, SHALL GOVERN ALL MATERIALS AND WORKMANSHIP INVOLVED IN THE IMPROVEMENTS SHOWN ON THESE PLANS, EXCEPT AS SUCH SPECIFICATIONS ARE MODIFIED BY THE FOLLOWING SPECIFICATIONS OR BY THE CONSTRUCTION DETAILS SET FORTH HEREIN.

CIRCUIT VOLTAGE FOR ALL LUMINAIRES SHALL BE 480 VOLT, UNLESS OTHERWISE NOTED.

CENTERLINE OF WOOD POLES AND CONDUIT TRENCH TO BE PLACED IN ACCORDANCE WITH THE PLAN DETAILS.

ALL PROPOSED LUMINAIRES SHALL BE 3000K LED.

NO SPLICES SHALL BE MADE TO CIRCUIT CABLES EXCEPT IN POLES OR PULL BOXES.

TRENCH LOCATION SHALL BE DEFLECTED AROUND OBSTACLES AS NOTED IN THIS PLAN.

WHERE THE TRENCH IS OFFSET FROM THE CENTERLINE OF THE FOUNDATIONS, THE CONDUIT SHALL BE DIRECTED TOWARD THE ELL OF THE FOUNDATION AT APPROXIMATELY 45 DEGREE ANGLE. THE FOUNDATION ELLS MAY BE AIMED OUT OF FOUNDATION AT APPROXIMATELY 45 DEGREE ANGLES TO FACILITATE CONNECTION TO CONDUIT WITH THE LEAST AMOUNT OF BENDS.

THE PLAN DETAILS SHALL BE CONSIDERED SUPPLEMENTAL TO MIS SPECIFICATIONS.

POLES SHALL BE LOCATED APPROXIMATELY WHERE SHOWN ON PLANS WITH EXACT LOCATIONS TO BE DETERMINED IN THE FIELD AFTER CONSIDERATION IS GIVEN TO THE LOCATION OF UNDERGROUND AND OVERHEAD UTILITIES, PAVEMENTS AND GRADES.

ALL ITEMS OF WORK CALLED FOR ON THE PLANS, FOR WHICH NO SPECIFIC METHOD OF PAYMENT IS PROVIDED, SHALL BE PERFORMED BY THE CONTRACTOR AND THE COST OF THESE SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE VARIOUS RELATED ITEMS. THIS INCLUDES, BUT IS NOT LIMITED TO, SUCH INCIDENTAL ITEMS AS RELOCATION OF MAIL BOXES, SAW CUTTING AND REMOVAL AND/OR RELOCATION OF SIGNS, RAILROAD TIES, SPRINKLERS, RELOCATING ROOF OR SUMP DRAINS AROUND LIGHT POLE FOUNDATIONS, HAND DIGGING AROUND UNDERGROUND UTILITIES OR OTHER MISCELLANEOUS ITEMS.

AS BUILT RECORD

THE CONTRACTOR SHALL MAINTAIN A SET OF PROJECT RECORD DOCUMENTS. THESE DOCUMENTS SHALL INCLUDE REVIEWED SHOP DRAWINGS, CHANGE ORDERS, EQUIPMENT OPERATING INSTRUCTIONS, FIELD TEST RECORDS, AND AS BUILT DRAWINGS. THE AS BUILT DRAWING SHALL BE MARKED LEGIBLY IN RED, THE ACTUAL LOCATION OF EQUIPMENT AND CONDUITS AS CONSTRUCTED. ALL EQUIPMENT AND UNDERGROUND CONDUITS INSTALLED SHALL HAVE LOCATIONS MARKED IN DISTANCES OFF A LANDMARK AT LEAST EVERY 25 FEET AND AS NECESSARY AT BENDS FOR LOCATION AT A LATER DATE. ADDITIONALLY, THE CONTRACTOR SHALL FILL-IN THE AS-BUILT COORDINATE TABLE AS SHOWN BELOW.

As-Built Coordinate Table			
Reference No.	Proposed Item	As-Built	
		Northing	Easting
55-B-1	Street Light Pole		
55-B-2	Street Light Pole		
PB-1	Pull Box		
PB-2	Pull Box		

UTILITY CLEARANCE REQUIREMENTS AND CONFLICT RESOLUTION

OUPS- THE CONTRACTOR SHALL CAUSE NOTICE TO BE GIVEN TO THE OHIO UTILITY PROTECTION SERVICE (OUPS- PHONE: 1-800-362-2764, TOLL FREE) AND THE OWNERS OF UNDERGROUND FACILITIES LOCATED WITHIN THE PROJECT AREA WHO ARE NOT MEMBERS OF THE REGISTERED UNDERGROUND PROTECTION SERVICE IN ACCORDANCE WITH SECTION 153.64 OF THE OHIO REVIEW CODE. THE ABOVE-MENTIONED NOTICE SHALL BE GIVEN AT LEAST TWO WORKING DAYS PRIOR TO THE START OF CONSTRUCTION.

NON-PAYMENT ITEMS (MIS-01, MIS-02, MIS-03, AND MIS-04)

THE CONTRACTOR SHALL CONFORM TO THE REQUIREMENTS OF MIS-01 (LOCKOUT/TAGOUT SAFETY POLICY), MIS-02 (INSPECTION & ACCEPTANCE GUIDELINES), MIS-03 (MATERIALS FOR APPROVAL SUBMITTAL GUIDELINES), AND MIS-04 (INSPECTION CHECKLIST). DETAILS CAN BE FOUND ON THE CITY OF COLUMBUS WEBSITE: www.columbus.gov/Services/Columbus-Water-Power/About-Columbus-Water-Power/Columbus-Water-Power-FAQs/Power-Specifications-Street-Lighting-MIS-Specifications

ITEM 625 - LIGHTING, MISC.: 13 INCH X 24 INCH PULL BOX (MIS-54)

THIS ITEM OF WORK SHALL COMPLY WITH CITY OF COLUMBUS, DIVISION OF POWER (DOP) MATERIAL AND INSTALLATION SPECIFICATION MIS-54.

ITEM 625 - LIGHTING, MISC.: STREET LIGHT FOUNDATION, 6' (MIS-201)

THIS ITEM OF WORK SHALL COMPLY WITH CITY OF COLUMBUS, DIVISION OF POWER (DOP) MATERIAL AND INSTALLATION SPECIFICATION MIS-201.

ITEM 625 - LIGHTING, MISC.: POLE, ALUMINUM, 8' BRACKET, T-BASE, 30' MOUNTING HEIGHT (MIS-300)
ITEM 625 - LIGHTING, MISC.: POLE, ALUMINUM, 15' BRACKET, T-BASE, 30' MOUNTING HEIGHT (MIS-300)

THIS ITEM OF WORK SHALL COMPLY WITH CITY OF COLUMBUS, DIVISION OF POWER (DOP) MATERIAL AND INSTALLATION SPECIFICATION MIS-300.

ITEM 625 - LIGHTING, MISC.: UNDERGROUND CIRCUIT, 2 WIRE (MIS-403)

THIS ITEM OF WORK SHALL COMPLY WITH CITY OF COLUMBUS, DIVISION OF POWER (DOP) MATERIAL AND INSTALLATION SPECIFICATION MIS-403.

ITEM 625 - LIGHTING, MISC.: POLE TO BE WIRED, 2-WIRE (MIS-500)

THIS ITEM OF WORK SHALL COMPLY WITH CITY OF COLUMBUS, DIVISION OF POWER (DOP) MATERIAL AND INSTALLATION SPECIFICATION MIS-500.

ITEM 625 - LIGHTING, MISC.: 2" CONDUIT, CONCRETE ENCASED (MIS-700)

THIS ITEM OF WORK SHALL COMPLY WITH CITY OF COLUMBUS, DIVISION OF POWER (DOP) MATERIAL AND INSTALLATION SPECIFICATION MIS-700.

ITEM 625 - LIGHTING, MISC.: 3" RIGID STEEL WITH 2" CONDUIT INSERT (MIS-702)

THIS ITEM OF WORK SHALL COMPLY WITH CITY OF COLUMBUS, DIVISION OF POWER (DOP) MATERIAL AND INSTALLATION SPECIFICATION MIS-702.

DESIGN AGENCY



DESIGNER

KWR

REVIEWER

JML 01-30-26

PROJECT ID

123987

SHEET TOTAL

P.108 122

ITEM 625 - LIGHTING, MISC.: LUMINAIRE, LED, COBRA HEAD (MIS-800)

THIS ITEM OF WORK SHALL COMPLY WITH CITY OF COLUMBUS, DIVISION OF POWER (DOP) MATERIAL AND INSTALLATION SPECIFICATION MIS-800. THE COOPER LIGHTING ARCHEON SERIES (ARCH-L-PA3-150-730-8-T3) WAS USED AS THE BASIS OF DESIGN FOR THIS PROJECT.

ITEM 625 - LIGHTING, MISC.: FOUNDATION REMOVAL (MIS-900)

THIS ITEM OF WORK SHALL COMPLY WITH CITY OF COLUMBUS, DIVISION OF POWER (DOP) MATERIAL AND INSTALLATION SPECIFICATION MIS-900.

ITEM 625 - LIGHTING, MISC.: EXISTING UNDERGROUND SYSTEM REMOVAL (MIS-902)

THIS ITEM OF WORK SHALL COMPLY WITH CITY OF COLUMBUS, DIVISION OF POWER (DOP) MATERIAL AND INSTALLATION SPECIFICATION MIS-902.

MISCELLANEOUS WORK ITEMS

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

ITEM 625 - LIGHTING, MISC.: MAINTAIN EXISTING AND TEMPORARY LIGHTING

STREET LIGHTING OUTAGES DURING THE COURSE OF CONSTRUCTION ARE PROHIBITED WITHOUT PRIOR APPROVAL FROM THE DIVISION OF POWER. ADEQUATE LIGHT LEVELS ARE TO BE MAINTAINED TO THE SATISFACTION OF THE CITY OF COLUMBUS THROUGHOUT THE COURSE OF CONSTRUCTION OF THE PROJECT.

EXISTING ROADWAYS WHICH ARE TO REMAIN OPEN TO TRAFFIC DURING THE CONSTRUCTION OF THE PROJECT AND LIGHTED SHALL HAVE THE LIGHTING MAINTAINED.

WHEN THE SEQUENCE OF CONSTRUCTION ACTIVITIES REQUIRES, OR SHOULD THE CONTRACTOR DESIRE, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING TEMPORARY LIGHTING WHEN THE REMOVAL OF THE EXISTING LIGHTING OCCURS BEFORE THE NEW LIGHTING IS FULLY OPERATIONAL.

BEFORE INSTALLING SUCH LIGHTING, THE CONTRACTOR SHALL PREPARE AND SUBMIT A TEMPORARY LIGHTING PLAN TO THE DESIGNER FOR REVIEW AND APPROVAL BY THE DIVISION OF POWER. THIS PLAN SHALL SHOW THE LOCATIONS OF POLES, LENGTHS OF BRACKET ARMS, DETAILS OF LUMINAIRES, MOUNTING HEIGHTS, WIRING METHODS, AND OTHER PERTINENT INFORMATION. MOUNTING HEIGHT FOR TEMPORARY LUMINAIRES SHALL NOT BE LESS THAN 28 FEET, AND MINIMUM OVERHEAD CONDUCTOR CLEARANCE SHALL BE ABOVE NESC MINIMUM.

THE TEMPORARY LIGHTING SHALL MATCH THE EXISTING OR PROPOSED AVERAGE FOOT-CANDLE INTENSITY AND AVERAGE MINIMUM UNIFORMITY RATIO, AS DIRECTED BY THE DESIGNER. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REMOVE AND DISPOSE OF THE TEMPORARY LIGHTING MATERIAL ONCE THE PROPOSED STREET LIGHTING IS OPERATIONAL.

THE CONTRACTOR SHALL PROVIDE INSTALLATIONS IN ACCORDANCE WITH THE IEEE, NATIONAL ELECTRICAL SAFETY CODE, AND CONFORM TO LOCAL LAWS AND CODES GOVERNING SUCH WORK. WOOD POLES WITH OVERHEAD WIRING MAY BE USED. HOWEVER, TEMPORARY LIGHTING SHALL MEET FEDERAL AND STATE SAFETY CRITERIA. IF BREAKAWAY POLES ARE USED TO MEET THESE CRITERIA, THEN UNDERGROUND WIRING SHALL BE USED. RECONDITIONED OR USED MATERIALS MAY BE FURNISHED FOR A TEMPORARY LIGHTING SYSTEM. WHERE NEW ELECTRICAL SERVICE IS NECESSARY TO POWER TEMPORARY LIGHTING, THE CONTRACTOR IS RESPONSIBLE FOR ARRANGING NEW SERVICE AND PAYING ALL ELECTRICAL COSTS. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING POLE OWNER PERMISSION FOR ATTACHMENTS. THESE COSTS SHALL BE PAID FOR UNDER THE LUMP SUM ITEM 625 "LIGHTING, MISC.: MAINTAIN EXISTING AND TEMPORARY LIGHTING". WHEN NO LONGER NEEDED THE TEMPORARY LIGHTING INSTALLATION SHALL BE TOTALLY REMOVED AND PROPERLY DISPOSED OF BY THE CONTRACTOR.

DESIGN AGENCY



DESIGNER

KWR

REVIEWER

JML 01-30-26

PROJECT ID

123987

SHEET TOTAL

P.109 | 122

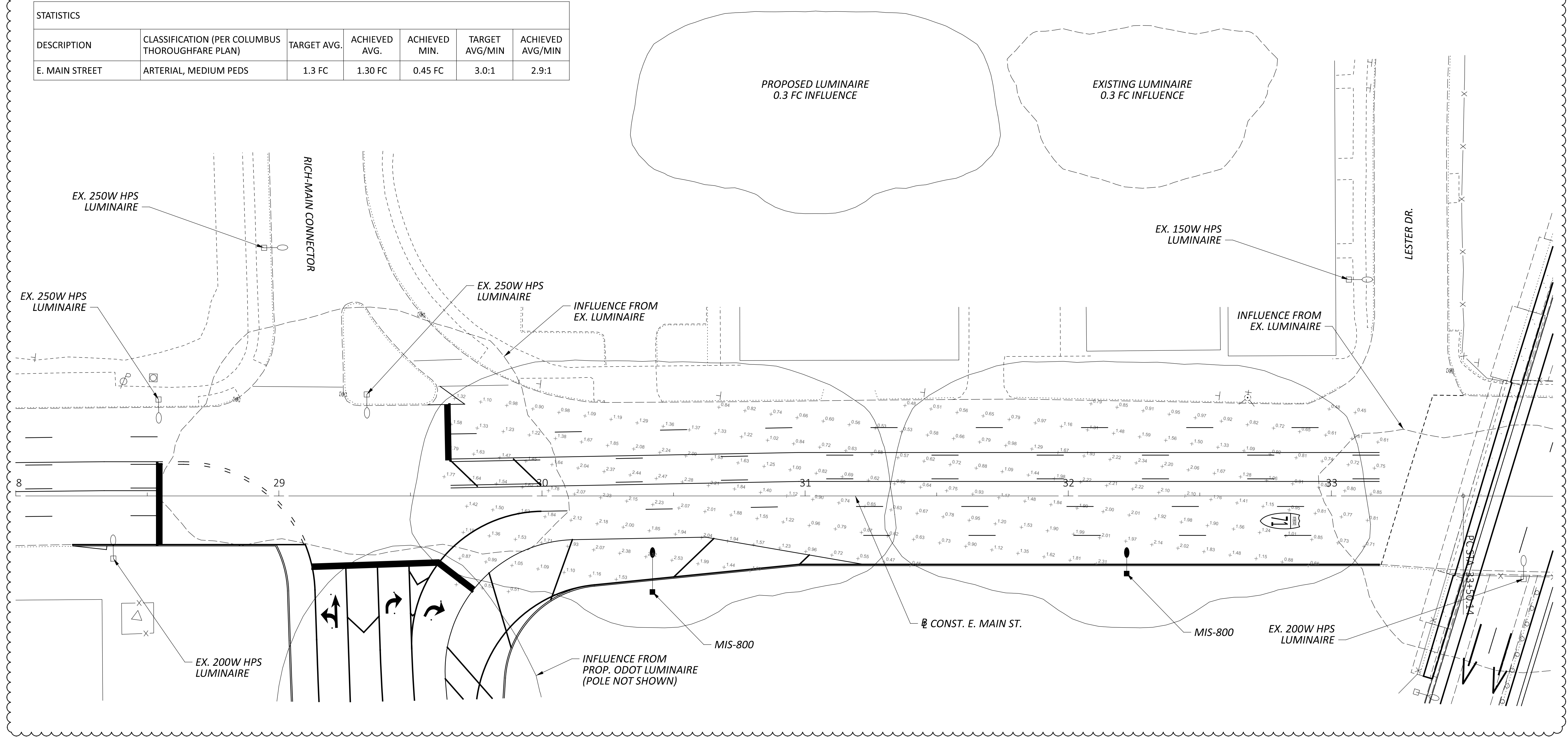
SUB-SUMMARY OF LIGHTING ITEMS					
ITEM NO. (ODOT)	ITEM NAME (ODOT)	ITEM NO. (COC)	QTY	UNIT	ITEM DESCRIPTION
625	LIGHTING, MISC.:	1001	2	EACH	13 INCH X 24 INCH PULL BOX (MIS-54)
625	LIGHTING, MISC.:	1001	2	EACH	STREET LIGHT FOUNDATION, 6' (MIS-201)
625	LIGHTING, MISC.:	1001	1	EACH	POLE, ALUMINUM, 8' BRACKET, T-BASE, 30' MOUNTING HEIGHT (MIS-300)
625	LIGHTING, MISC.:	1001	1	EACH	POLE, ALUMINUM, 15' BRACKET, T-BASE, 30' MOUNTING HEIGHT (MIS-300)
625	LIGHTING, MISC.:	1001	546	CIRCUIT FOOT	UNDERGROUND CIRCUIT, 2 WIRE (MIS-403)
625	LIGHTING, MISC.:	1001	2	EACH	POLE TO BE WIRED, 2-WIRE (MIS-500)
625	LIGHTING, MISC.:	1001	381	LINEAR FOOT	2" CONDUIT, CONCRETE ENCASED (MIS-700)
625	LIGHTING, MISC.:	1001	113	LINEAR FOOT	3" RIGID STEEL WITH 2" CONDUIT INSERT (MIS-702)
625	LIGHTING, MISC.:	1001	2	EACH	LUMINAIRE, LED, COBRA HEAD (MIS-800)
625	LIGHTING, MISC.:	1001	3	EACH	FOUNDATION REMOVAL (MIS-900)
625	LIGHTING, MISC.:	1001	LS	LUMP SUM	EXISTING UNDERGROUND SYSTEM REMOVAL (MIS-902)
625	LIGHTING, MISC.:	1001	LS	LUMP SUM	MAINTAIN EXISTING AND TEMPORARY LIGHTING

NON-PAYMENT MIS SPECIFICATIONS	
MIS	ITEM DESCRIPTION
1	STREET LIGHT LOCKOUT/TAGOUT (LOTO)
2	GUIDELINES FOR INSPECTION & ACCEPTANCE OF STREET LIGHTING SYSTEMS
3	GUIDELINES FOR STREET LIGHTING "MATERIALS FOR APPROVAL" SUBMITTAL PACKAGES
4	INSPECTION CHECKLIST
58	MINIMUM TREE CLEARANCE FOR DOWNTOWN, URBAN, & RURAL AREAS



LUMINAIRE SCHEDULE							
STYLE	MANUFACTURER	CATALOG NUMBER	DESCRIPTION	FILE NAME	LUMENS PER LAMP	LIGHT LOSS FACTOR	WATTAGE
COBRA HEAD (MIS-800)	COOPER	ARCH-L-PA3-150-730-8-T3-AP	ARCHEON-L ROADWAY AND AREA LUMINAIRE (3) 70 CRI, 3000K, 705MA LIGHT ENGINES WITH 24 LEDS AND TYPE III OPTICS	ARCH-L-PA3-150-730-U-T3.IES	21,672	0.88	153

STATISTICS						
DESCRIPTION	CLASSIFICATION (PER COLUMBUS THOROUGHFARE PLAN)	TARGET AVG.	ACHIEVED AVG.	ACHIEVED MIN.	TARGET AVG/MIN	ACHIEVED AVG/MIN
E. MAIN STREET	ARTERIAL, MEDIUM PDS	1.3 FC	1.30 FC	0.45 FC	3.0:1	2.9:1

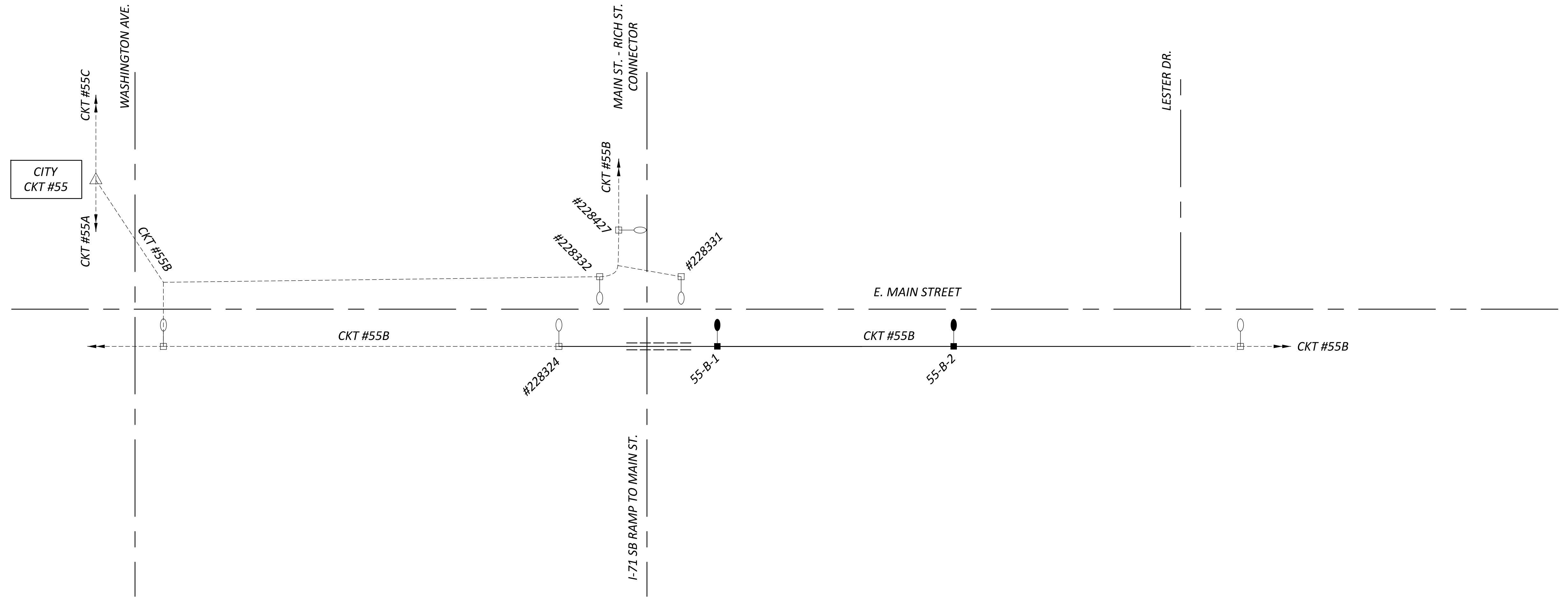


PHOTOMETRIC PLAN SHEET - E. MAIN STREET
 STA. 28+00 TO STA. 34+00

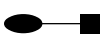
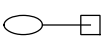
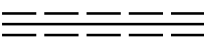

DESIGN AGENCY



DESIGNER
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 REVIEWER
JML 01-30-26
 PROJECT ID
123987
 SHEET TOTAL
P.113A 122



LEGEND

-  **PROPOSED LIGHT POLE (MIS-302)**
W/ LED COBRA HEAD LUMINAIRE (MIS-800)
-  **EXISTING LIGHT POLE (TO REMAIN)**
W/ EXISTING COBRA HEAD LUMINAIRE (TO REMAIN)
- **PROPOSED 2" ENCASED CONDUIT (MIS-700)**
W/ 2-WIRE UNDERGROUND CIRCUIT CABLE (MIS-403)
-  **PROPOSED 3" RIGID STEEL CONDUIT WITH 2" CONDUIT INSERT (MIS-702)**
W/ 2-WIRE UNDERGROUND CIRCUIT CABLE (MIS-403)
- **EXISTING UNDERGROUND CONDUIT (TO REMAIN)**
W/ EX. 2-WIRE UNDERGROUND CIRCUIT CABLE (TO REMAIN)
-  **EXISTING POLE MOUNTED LIGHTING CONTROL CENTER (TO REMAIN)**

CIRCUIT SCHEMATIC - MAIN STREET (CITY)

DESIGN AGENCY



DESIGNER
KWR

REVIEWER
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PROJECT ID
123987

SHEET TOTAL
P.115 | 122