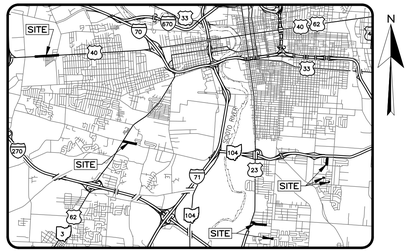
CITY OF COLUMBUS, OHIO
DEPARTMENT OF PUBLIC UTILITIES
DIVISION OF WATER

EDSEL AVENUE AREA WATER LINE IMPROVEMENTS CONTRACT NO. 2128

CAPITAL IMPROVEMENT PROJECT NO. 690236–100104

2020



VICINITY MAP
SCALE: 1" = 10,000'

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

OIL & GAS PRODUCERS UNDERGROUND PROTECTION SERVICE
1-800-925-0988
www.ogpups.com

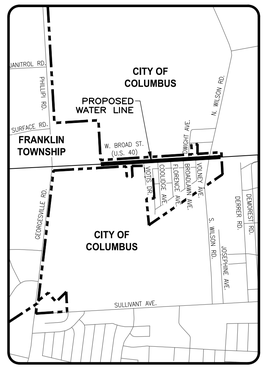
CALL AT LEAST 48 HOURS BUT NO MORE THAN 10 WORKING DAYS (EXCLUDING WEEKENDS AND LEGAL HOLIDAYS)
NON–MEMBERS MUST BE CALLED DIRECTLY

SHEETS 1-13 AND 21-49 PLANS AND DESIGN PREPARED BY:

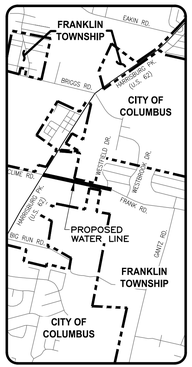
RESOURCE INTERNATIONAL, INC.
6350 PRESIDENTIAL GATEWAY
COLUMBUS, OHIO 43231
(614) 823-4949

SHEETS 14 - 20 PLANS AND DESIGN PREPARED BY:

HDR
2800 CORPORATE EXCHANGE DRIVE, SUITE 100
COLUMBUS, OHIO 43231
(614) 839-5770



LOCATION MAP
SCALE: 1" = 2,000'



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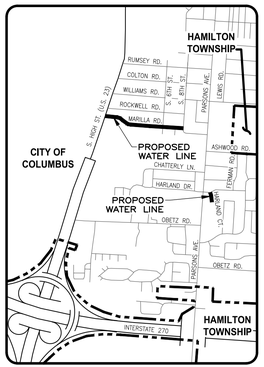

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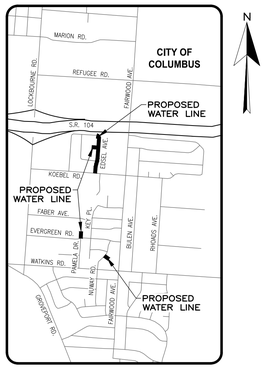

LOCATION MAP
SCALE: 1" = 2,000'

REGISTERED ENGINEER — DATE

FRANKLIN COUNTY

FRANKLIN COUNTY ENGINEER SIGNATURES BELOW SIGNIFY ONLY CONCURRENCE WITH GENERAL PURPOSE AND GENERAL LOCATION OF THE PROJECT. ALL TECHNICAL DETAILS REMAIN THE RESPONSIBILITY OF THE ENGINEER PREPARING THE PLANS. APPROVAL ON THE PART OF FRANKLIN COUNTY ENGINEER'S OFFICE IS GIVEN FOR WORK WITHIN THE FRANKLIN COUNTY R/W ONLY.

FRANKLIN COUNTY ENGINEER — DATE

FRANKLIN COUNTY CHIEF DEPUTY ENGINEER — DATE

75% SUBMITTAL
03–30–2020
NOT FOR CONSTRUCTION

INDEX OF SHEETS

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THE CITY OF COLUMBUS CONSTRUCTION AND MATERIAL SPECIFICATIONS (CMSC), 2018 EDITION, INCLUDING ALL REVISIONS AND SUPPLEMENTS IN EFFECT AT THE TIME OF SIGNATURE BY THE DIRECTOR OF PUBLIC UTILITIES, SHALL GOVERN ALL CONSTRUCTION ITEMS THAT ARE A PART OF THIS PLAN UNLESS NOTED OTHERWISE.

APPROVALS

SIGNATURES BELOW SIGNIFY ONLY CONCURRENCE WITH THE GENERAL PURPOSE AND GENERAL LOCATION OF THE PROJECT. ALL TECHNICAL DETAILS REMAIN THE RESPONSIBILITY OF THE ENGINEER PREPARING THE PLANS.

CITY OF COLUMBUS

DISTRIBUTION ENGINEERING MANAGER, DIVISION OF WATER — DATE

FIRE PREVENTION BUREAU, DIVISION OF FIRE — DATE

ADMINISTRATOR, DIVISION OF POWER — DATE

ADMINISTRATOR, DIVISION OF SEWERAGE AND DRAINAGE — DATE

ADMINISTRATOR, DIVISION OF WATER — DATE

DIRECTOR, DEPARTMENT OF PUBLIC UTILITIES — DATE

CITY ENGINEER/ADMINISTRATOR, DIVISION OF DESIGN AND CONSTRUCTION — DATE

DIRECTOR, DEPARTMENT OF PUBLIC SERVICE — DATE

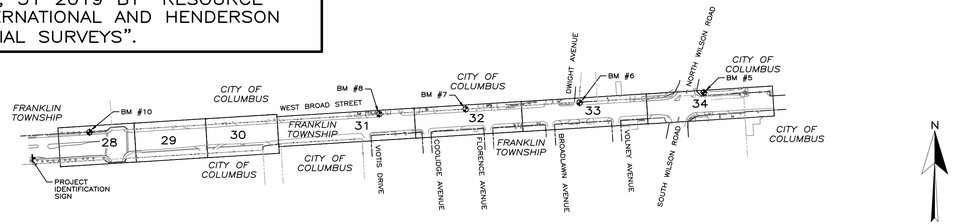
DIRECTOR, DEPARTMENT OF RECREATION AND PARKS — DATE

OHIO DEPARTMENT OF TRANSPORTATION

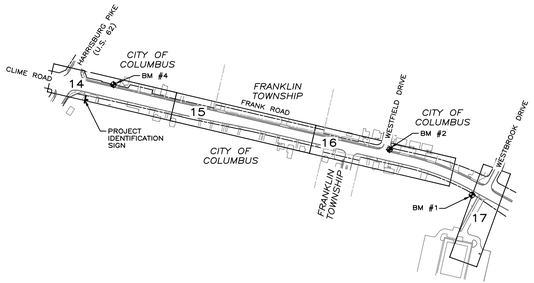
DISTRICT DEPUTY DIRECTOR, OHIO DEPARTMENT OF TRANSPORTATION — DATE

19–083

THIS SURVEY WAS COMPLETED ON MAY, 31 2019 BY "RESOURCE INTERNATIONAL AND HENDERSON AERIAL SURVEYS".



INDEX MAP
SCALE: 1" = 400'



INDEX MAP
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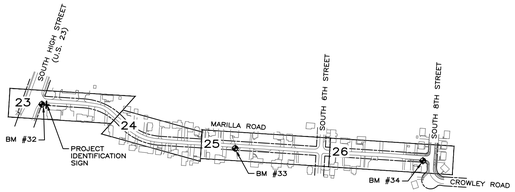

INDEX MAP
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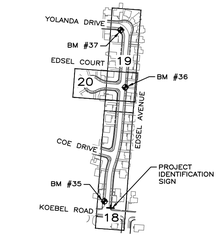
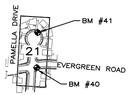
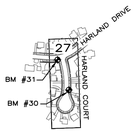
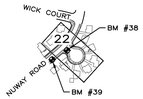








INDEX MAP
SCALE: 1" = 400'

CRITICAL USERS IMPACTED BY PROJECT

DESCRIPTION OF USER	ADDRESS
XXXXXXXXXXXXX	XXXXXXXXXXXXX
XXXXXXXXXXXXX	XXXXXXXXXXXXX
XXXXXXXXXXXXX	XXXXXXXXXXXXX
XXXXXXXXXXXXX	XXXXXXXXXXXXX

BENCHMARK INFORMATION

BM1: BENCH TIE IN THE NORTH SIDE OF POWER POLE #103479 LOCATED ON THE SOUTH SIDE CORNER OF FRANK ROAD AT RESIDENCE #1919.
(699567.15N, 1813309.27E) ELEVATION: 745.00 (NAVD 88)

BM2: BENCH TIE IN THE SOUTH SIDE OF POWER POLE LOCATED ON THE NORTHEAST CORNER OF FRANK ROAD AND WESTFIELD DRIVE.
(699821.61N, 1812848.10E) ELEVATION: 751.09 (NAVD 88)

BM4: BENCH TIE IN THE SOUTH SIDE OF POWER POLE LOCATED ON THE NORTH SIDE OF FRANK ROAD AT RESIDENCE #2182.
(700184.65N, 1811305.15E) ELEVATION: 762.97 (NAVD 88)

BM5: CHISELED SQUARE CUT ON THE SOUTH CORNER OF A CONCRETE PAD LOCATED AT THE NORTHEAST CORNER OF THE INTERSECTION OF WEST BROAD STREET AND WILSON ROAD. PAD IS FOR THE PNC BANK SIGN.
(712310.40N, 1801902.40E) ELEVATION: 838.19 (NAVD 88)

BM6: RAILROAD SPIKE FOUND ON THE SOUTH SIDE OF A POWER POLE LOCATED ON THE NORTH SIDE OF WEST BROAD STREET ACROSS THE STREET FROM THE SPEEDWAY GAS STATION, 300'+/– SOUTHEAST OF THE ADVANCE AUTO PARTS STORE.
(712253.59N, 1801207.32E) ELEVATION: 841.99 (NAVD 88)

BM7: RAILROAD SPIKE FOUND ON THE NORTH SIDE OF A POWER POLE (#61A110) LOCATED ON THE NORTH SIDE OF WEST BROAD STREET, 200'+/– WEST OF THE BURGER KING AND 300'+/– EAST OF JD BYRIDER.
(712217.10N, 1800571.04E) ELEVATION: 844.17 (NAVD 88)

BM8: BENCH TIE IN THE SOUTH SIDE OF POWER POLE (#61A93) LOCATED OF THE NORTH SIDE OF WEST BROAD STREET, 50'+/– SOUTHEAST OF SOLUTIONS STAFFING BUILDING AT #3770 WEST BROAD STREET.
(712189.80N, 1800088.63E) ELEVATION: 849.22 (NAVD 88)

BM10: RAILROAD SPIKE FOUND ON THE SOUTH SIDE OF A POWER POLE LOCATED ON THE NORTH SIDE OF WEST BROAD STREET, 200'+/– SOUTHEAST OF DRIVE TIM BUILDING AT #400 WEST BROAD STREET.
(712087.67N, 1798468.02E) ELEVATION: 864.56 (NAVD 88)

BM30: BENCH TIE IN THE WEST SIDE OF POWER POLE LOCATED ON THE EAST SIDE OF HARLAND DRIVE AT RESIDENCE #3808.
(686469.91N, 1800088.63E) ELEVATION: 732.84 (NAVD 88)

BM31: BENCH TIE IN THE NORTH SIDE OF POWER POLE LOCATED ON THE SOUTHWEST CORNER OF THE INTERSECTION OF HARLAND DRIVE AND HARLAND COURT.
(686638.50N, 1831926.10E) ELEVATION: 732.47 (NAVD 88)

SURVEY CONTROL

HORIZONTAL CONTROL AND AERIAL SURVEY CONTROL PANELS HAVE BEEN ESTABLISHED ON THE OHIO STATE PLANE COORDINATE GRID VALUES UTILIZING ODOT'S VRS SYSTEM. THE AERIAL SURVEY CONTROL PANEL ELEVATIONS WILL BE OBSERVED UTILIZING ODOT'S VRS SYSTEM. VERTICAL CONTROL (ELEVATIONS) FOR THE REMAINDER OF THE PROJECT WILL BE ESTABLISHED ON NAVD88 UTILIZING ODOT'S VRS SYSTEM. ONE CONTROL POINT WILL BE HELD AS GOOD AND THE REMAINING CONTROL POINTS WILL HAVE ELEVATIONS ESTABLISHED USING DIRECT LEVELING METHODS.

BENCHMARK INFORMATION

BM32: BENCH TIE IN THE NORTH SIDE OF POWER POLE LOCATED ON THE SOUTHEAST CORNER OF THE INTERSECTION OF SOUTH HIGH STREET AND MARILLA ROAD.
(688811.22N, 1829012.42E) ELEVATION: 718.96 (NAVD 88)

BM33: BENCH TIE IN THE NORTH SIDE OF POWER POLE #124724 LOCATED ON THE SOUTH SIDE OF MARILLA ROAD AT RESIDENCE #163.
(688564.63N, 1830092.71E) ELEVATION: 718.15 (NAVD 88)

BM34: BENCH TIE IN THE NORTH SIDE OF POWER POLE #124719 LOCATED ON THE SOUTHWEST CORNER OF MARILLA ROAD AND SOUTH 8TH STREET.
(688495.55N, 1831142.22E) ELEVATION: 726.55 (NAVD 88)

BM35: BENCH TIE IN THE EAST SIDE OF POWER POLE #111355 LOCATED ON THE NORTHWEST CORNER OF EDSEL AVENUE AND KOEBEL ROAD.
(696909.59N, 1839508.38E) ELEVATION: 761.78 (NAVD 88)

BM36: BENCH TIE IN THE WEST SIDE OF POWER POLE #125314 LOCATED ON THE EAST SIDE OF THE INTERSECTION OF EDSEL AVENUE AND EDSEL COURT.
(697547.19N, 1839624.61E) ELEVATION: 762.34 (NAVD 88)

BM37: BENCH TIE IN THE NORTH SIDE OF POWER POLE #125316 LOCATED ON THE SOUTHWEST CORNER OF EDSEL AVENUE AND YOLANDA DRIVE.
(697867.45N, 1839599.29E) ELEVATION: 762.23 (NAVD 88)

BM38: BENCH TIE IN THE NORTHEAST SIDE OF POWER POLE #125473 LOCATED ON THE NORTHWEST CORNER OF RESIDENCE #2904 NUWAY ROAD.
(694482.27N, 1839802.63E) ELEVATION: 763.49 (NAVD 88)

BM39: BENCH TIE IN THE NORTHEAST SIDE OF POWER POLE #123174 LOCATED ON THE SOUTH SIDE OF THE NUWAY ROAD AND RESIDENCE #2910 NUWAY ROAD.
(694430.54N, 1839718.84E) ELEVATION: 764.04 (NAVD 88)

BM40: BENCH TIE IN THE NORTH SIDE OF POWER POLE #125481 LOCATED ON THE SOUTHWEST CORNER OF THE INTERSECTION OF PAMELLA DRIVE AND EVERGREEN ROAD.
(694989.82N, 1839146.81E) ELEVATION: 768.53 (NAVD 88)

BM41: BENCH TIE IN THE SOUTH SIDE OF POWER POLE #125482 LOCATED ON THE NORTH SIDE OF PAMELLA DRIVE CUL–DE–SAC AT RESIDENCE #2796 PAMELLA DRIVE.
(695186.28N, 1839151.81E) ELEVATION: 770.10 (NAVD 88)

		CITY OF COLUMBUS DEPARTMENT OF PUBLIC UTILITIES DIVISION OF WATER			INDEX MAP, BENCH MARKS, SURVEY CONTROL AND CRITICAL USERS	DIVISION OF WATER CONTRACT NO. 2128 CAPITAL IMPROVEMENT PROJECT NO. 690236–100104 EDSEL AVENUE AREA WATER LINE IMPROVEMENTS	SCALE 1"=400'	19–083	2 / XX

1. SPECIFICATIONS:
THE CITY OF COLUMBUS, CONSTRUCTION AND MATERIAL SPECIFICATIONS, 2018 EDITION, INLCUDING ALL REVISIONS, SPECIAL PROVISIONS AND SUPPLEMENTAL SPECIFICATIONS LISTED IN THE PROPOSAL AND IN EFFECT AT THE TIME OF BIDDING BY THE DIRECTOR OF PUBLIC UTILITIES, SHALL GOVERN THIS IMPROVEMENT, UNLESS OTHERWISE NOTED.

ALL WATER MAIN MATERIALS AND INSTALLATIONS SHALL BE IN ACCORDANCE WITH THE CURRENT APPROVED MATERIALS LIST AND RULES AND REGULATIONS OF THE CITY OF COLUMBUS, DIVISION OF WATER, UNLESS OTHERWISE SHOWN ON THE PLANS OR ORDERED BY THE ENGINEER. ONLY PRODUCTS LISTED ON THE CURRENT APPROVED MATERIALS LIST WILL BE PERMITTED TO BE INSTALLED.

2. STANDARD DRAWINGS:
ALL CITY OF COLUMBUS STANDARD DRAWINGS SHALL BE CONSIDERED A PART OF THESE PLANS, UNLESS OTHERWISE NOTED.

3. WATER CONTRACTOR LICENSE REQUIREMENT:
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.

4. WATER MAIN EMERGENCIES:
FOR ANY EMERGENCIES THAT OCCUR AFTER NORMAL WORKING HOURS INVOLVING THE WATER DISTRIBUTION SYSTEM, PLEASE CONTACT THE DIVISION OF WATER DISTRIBUTION MAINTENANCE OFFICE AT 614–645–7788.

5. CITY OF COLUMBUS STREET OPENING PERMIT:
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 BETWEEN THE HOURS OF 7:30AM AND 4:00PM MONDAY–FRIDAY. PHONE: (614) 645–7497; FAX: (614) 645–1876; EMAIL: COLSPERMITS@COLUMBUS.GOV. WHEN STEEL PLATES ARE UTILIZED, CONTRACTOR SHALL ENSURE PROPER SIGNAGE IS USED INDICATING THE PLATE LOCATIONS. CONTRACTOR SHALL EMAIL THE LOCATIONS OF THE STEEL PLATES TO COLSPERMITS@COLUMBUS.GOV.

6. SAFETY REQUIREMENTS:
THE CONTRACTOR AND SUB–CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR COMPLYING WITH ALL FEDERAL, STATE AND LOCAL SAFETY REQUIREMENTS, TOGETHER WITH EXERCISING PRECAUTIONS AT ALL TIMES FOR THE PROTECTION OF PERSONS (INCLUDING EMPLOYEES) AND PROPERTY. IT IS ALSO THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND SUB–CONTRACTORS TO INITIATE, MAINTAIN AND SUPERVISE ALL SAFETY REQUIREMENTS, PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK.

7. RIGHTS OF WAY:
IN ADDITION TO THE DIRECT REQUIREMENTS OF THE CONTRACT SPECIFICATIONS, THE CONTRACTOR SHALL OBSERVE AND CONFORM TO THE REQUIREMENTS OF ALL RIGHTS–OF–WAY INCLUDING EASEMENTS, COURT ENTRIES, RIGHTS OF ENTRY OR ACTION FILED IN COURT IN ACCORDANCE WITH THE CODE OF THE APPLICABLE GOVERNING AGENCY. THE COST OF THE OPERATIONS, NECESSARY TO FULFILL SUCH REQUIREMENTS, SHALL BE INCLUDED IN THE PRICE BID FOR THE VARIOUS ITEMS OF THE CONTRACT UNLESS SPECIFIC PROVISION IS MADE IN THE CONTRACT SPECIFICATIONS FOR SUCH COST UNDER SPECIFIC ITEMS OF THE CONTRACT.

8. EXISTING UTILITIES:
THE IDENTITY AND LOCATION OF THE EXISTING UTILITY FACILITIES KNOWN TO BE LOCATED IN THE CONSTRUCTION AREA HAVE BEEN SHOWN ON THE PLANS AS ACCURATELY AS PROVIDED BY THE OWNER OF THE UNDERGROUND UTILITY. THE CITY OF COLUMBUS AND/OR THE ENGINEER ASSUMES NO RESPONSIBILITY AS TO THE ACCURACY OR THE DEPTHS OF THE UNDERGROUND FACILITIES SHOWN ON THE PLANS.

LOCATION, SUPPORT, PROTECTION AND RESTORATION OF ALL EXISTING UTILITIES AND APPURTENANCES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR, PRIOR TO CONSTRUCTION, TO DETERMINE IN THE FIELD THE ACTUAL LOCATION AND ELEVATIONS OF ALL EXISTING UTILITIES WHETHER SHOWN ON THE PLAN OR NOT. FOR PROJECTS INCLUDING THE INSTALLATION OF 20–INCH OR LARGER DIAMETER WATER PIPE, THE CONTRACTOR SHALL VERIFY THE SIZE, LOCATION, DEPTH, AND MATERIAL TYPE OF ALL TIE–IN CONNECTIONS PRIOR TO ORDERING PIPE FROM THE SUPPLIER. CONTRACTOR SHALL NOTIFY THE DIVISION OF WATER ENGINEER OF ANY DISCREPANCIES BETWEEN FIELD CONDITIONS AND THE CONSTRUCTION PLANS. COST TO BE INCLUDED IN THE PRICE BID FOR THE VARIOUS WATER MAIN ITEMS.

THE CONTRACTOR SHALL CAUSE NOTICE TO BE GIVEN TO THE OHIO UTILITIES PROTECTION SERVICE (TELEPHONE 1–800–362–2764 TOLL FREE). THE NOTICE SHALL BE GIVEN AT LEAST 48 HOURS PRIOR TO START OF CONSTRUCTION.

9. EXPOSE:
THE CONTRACTOR SHALL EXPOSE ALL EXISTING UNDERGROUND UTILITIES, SERVICES, AND STRUCTURES SUFFICIENTLY IN ADVANCE OF LAYING THE PROPOSED WATER MAIN IN ORDER TO VERIFY THE PROPOSED LOCATION, ELEVATION, SIZE, AND MATERIAL TYPE. COST TO BE INCLUDED IN THE PRICES BID FOR THE VARIOUS WATER MAIN ITEMS.

10. EXTRA COMPENSATION:
NO EXTRA COMPENSATION WILL BE PAID TO THE CONTRACTOR BY REASON OF COMPLIANCE WITH ANY OF THE REQUIREMENTS INDICATED ON THE PLANS, BUT PAYMENT SHALL BE DEEMED TO BE INCLUDED AMONG THE SEVERAL ITEMS, AS BID UPON, UNLESS OTHERWISE SPECIFICALLY PROVIDED.

11. STATIONING:
ALL STATIONING REFERS TO WATER MAIN STATIONING UNLESS OTHERWISE NOTED ON THE PLANS.

12. NON–RUBBER TIRE VEHICLES:
NON–RUBBER TIRED VEHICLES SHALL NOT BE MOVED ON PUBLIC STREETS. THE CITY ENGINEER MAY GRANT EXCEPTIONS WHEN SHORT DISTANCES AND SPECIAL CIRCUMSTANCES ARE INVOLVED. GRANTING OF EXCEPTIONS MUST BE IN WRITING, AND ANY DAMAGE MUST BE REPAIRED TO THE SATISFACTION OF THE CITY OF COLUMBUS AND THE FRANKLIN COUNTY ENGINEER WHERE COUNTY AND/OR TOWNSHIP ROADS ARE INVOLVED.

13. TREES:
NO PERSON SHALL EXCAVATE ANY DITCH, TUNNEL, TRENCH OR LAY ANY DRIVE WITHIN A RADIUS OF TEN (10) FEET FROM ANY TREE, SHRUB, OR EVERGREEN STANDING ON ANY PUBLIC STREET, PARK OR PUBLIC PLACE WITHOUT FIRST OBTAINING A PERMIT FROM THE RECREATION AND PARKS DEPARTMENT, AS PER TITLE 9, CHAPTER 912 OF CITY OF COLUMBUS CODE (912.20). ALL TREES, WHETHER SHOWN OR NOT SHOWN ON THE PLANS, ARE TO BE PRESERVED UNLESS APPROVAL TO REMOVE IS GIVEN IN WRITING BY THE RECREATION AND PARKS DEPARTMENT OR THEIR REMOVAL HAS BEEN DESIGNATED ON THE PLANS. TREES REMOVED SHALL BE COMPLETED AS SPECIFIED IN ITEM 201 AND DESCRIBED HEREIN.

FOR ANY TREES DESIGNATED FOR REMOVAL THAT MAY BE POTENTIAL INDIANA BAT HABITAT AREAS, REMOVAL SHALL ONLY OCCUR FROM OCTOBER 15 TO MARCH 31. IF THE CONTRACTOR PREFERS TO REMOVE THE TREES OUTSIDE OF THIS TIMEFRAME, A SURVEY MUST BE CONDUCTED ACCORDING TO THE UNITED STATES FISH AND WILDLIFE SERVICE AND BY A BIOLOGIST WITH ALL REQUIRED FEDERAL AND/OR STATE COLLECTION PERMITS TO DETERMINE THE PRESENCE OF ANY INDIANA BATS. THE DATA COLLECTED DURING THE SURVEY MUST BE PROVIDED TO THE CITY ACCORDING TO THE CONDITIONS OF THE PERMIT(S) AND ANY REGULATORY AUTHORITY REQUIREMENTS. IF NO BATS ARE PRESENT, THE TREE SHALL BE REMOVED WITHIN 24 HOURS OF THE SURVEY BEING CONDUCTED. IF BATS ARE FOUND TO BE PRESENT, THEN THE TREE SHALL REMAIN AND A PROTECTION AND ENHANCEMENT PLAN WILL BE REQUIRED.

THE CONTRACTOR SHALL USE SPECIAL PRECAUTIONS TO AVOID DAMAGE TO ALL OTHER TREES. WHEN, IN THE OPINION OF THE CITY FORESTER, TRUNKS OR BRANCHES WOULD BE ENDANGERED BY THE USE OF MECHANICAL DEVICES, HAND EXCAVATION WILL BE REQUIRED. UNLESS OTHERWISE SPECIFICALLY PROVIDED, THE COST OF TREE PROTECTION, REMOVAL, AND ANY REQUIRED REPLACEMENT SHALL BE INCLUDED IN THE PRICE BID FOR THE VARIOUS WATER MAIN ITEMS.

ALL TREES, BRANCHES AND WOOD CHIPS REMOVED FROM PROJECT SHALL BE DELIVERED TO THE CITY OF COLUMBUS FOR BENEFICAL USE. CONTRACTOR SHALL DELIVER TREES TO SOUTHERWESTERLY COMPOSTING FACILITY, 7000 JACKSON PIKE, LOCKBOURNE, OHIO 43137 BETWEEN 7 AM TO 3PM, MONDAY THROUGH FRIDAY. THIS REQUIREMENT MAY ONLY BE WAIVED IF APPROVED IN WRITING BY THE ENGINEER. CONTRACTOR SHALL SUBMIT SCALE TICKETS FROM COMPOSTING FACILITY TO ENGINEER. STUMPS, ROOTS AND DEBRIS SHALL BE DISPOSED OF ACCORDING TO OTHER CONTRACT ITEMS.

14. SAWING PAVEMENT:
ALL EROSION AND SEDIMENT CONTROLS SHALL BE IN–PLACE PRIOR TO SAW CUTTING THE PAVEMENT. WHERE NECESSARY TO DISTURB PAVEMENTS OR DRIVES, THE PAVEMENT SHALL BE SAW CUT TO FULL DEPTH OF PAVEMENT AND IN NEAT STRAIGHT LINES NO MORE THAN 1/8" WIDE. IF THE PAVEMENT IS DAMAGED BEYOND THE ORIGINAL SAW CUT DURING CONSTRUCTION, THE PAVEMENT SHALL BE RE–CUT TO NEAT LINES. COST TO BE INCLUDED IN THE PRICE BID FOR THE VARIOUS PAVEMENT REPLACEMENT ITEMS.

SAW CUTTING WILL BE PERMITTED IN ADVANCE OF THE REQUIRED EXCAVATION WORK UNDER THE CONDITION THAT THE CONTRACTOR ASSUMES THE RISK THAT THE ALIGNMENT MAY CHANGE AS A RESULT OF AN UNFORESEEN CONDITION OR FIELD ORDER. CONTRACTOR WILL RECEIVE NO ADDITIONAL COMPENSATION IF IT IS NECESSARY TO RESAW PAVEMENT DUE TO AN ALIGNMENT CHANGE. WITH THE EXCEPTION OF SAW CUTTING LINES, DISTURBING OR REMOVING THE PAVEMENT WILL NOT BE PERMITTED PRIOR TO THE EXCAVATION WORK.

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 A STORMWATER POLLUTION PREVENTION PLAN (SWP3) OR SPILL PREVENTION/REMEDIATION PLAN, SHALL APPLY TO ALL PAVEMENT CUTTING, SAWING OR EXCAVATION OPERATIONS.

15. TEMPORARY PAVEMENT:
ALL STREETS AND DRIVEWAYS CUT BY THE CONTRACTOR SHALL BE PROVIDED WITH TEMPORARY PAVEMENT ON THE SAME DAY THAT ORIGINAL PAVEMENT IS CUT. IN GENERAL, STREETS SHALL BE PROVIDED WITH TEMPORARY PAVEMENT PER ITEM 615 AND STANDARD DRAWING 2161, EXCEPT AS HEREIN MODIFIED. LIMITING LINES FOR MEASUREMENT OF TEMPORARY PAVEMENT SHALL BE THE DIAMETER OF THE WATER MAIN PLUS TWO FEET (D+2'). PRIVATE DRIVEWAYS SHALL BE TEMPORARILY REPLACED WITH A MINIMUM OF 8 INCHES OF CRUSHED STONE OR GRAVEL AS PER ITEM 815. TRENCH SHALL BE BACKFILLED TO THE TOP OF THE PAVEMENT SUBGRADE USING GRANULAR MATERIAL MEETING THE REQUIREMENTS OF ITEMS 304.02 OR 703.11. PAYMENT WILL BE MADE AT THE CONTRACT UNIT PRICE BID FOR ITEMS 615 AND 815.

16. CURBS AND SIDEWALKS:
SIDEWALK SHALL BE REMOVED FROM EXISTING JOINTS AND REPLACED AS PER STANDARD DRAWING 2300. CURB OR CURB AND GUTTER WILL BE REMOVED PER STANDARD DRAWING 1441 AND REPLACED PER ITEM 609 AND STANDARD DRAWINGS 2000 AND 2010. **UNLESS AN APPROVED ALTERNATE PEDESTRIAN ACCESS ROUTE DETOUR IS PROVIDED, THE CONTRACTOR SHALL REPLACE SIDEWALK PANELS WITH SMOOTH, CONTINUOUS HARD SURFACES WITHIN 48 HOURS OF REMOVING TO MAINTAIN ADA ACCESS AS PER THE OHIO MUTCD. ALL WORK REQUIRED TO INSTALL TEMPORARY SIDEWALK SHALL BE PERFORMED AT NO ADDITIONAL COST TO THE CITY. ALL COSTS FOR REPLACEMENT OF SIDEWALKS SHALL BE INCLUDED IN THE PRICE BID FOR ITEM 608. IF AN APPROVED ALTERNATE PEDESTRIAN ACCESS ROUTE IS PROVIDED, SIDEWALKS MAY BE TEMPORARILY BACKFILLED WITH STONE/GRAVEL.** CONTRACTOR SHALL MATCH THE FINISH OF THE EXISTING CONCRETE WHEN INSTALLING NEW SIDEWALK. COST FOR REMOVAL AND REPLACEMENT OF CURB SHALL BE INCLUDED IN THE PRICE BID FOR ITEM 801 (FOR REPAIRS DUE TO MAIN LINE OR HYDRANT INSTALLATION) AND ITEM 805 (FOR REPAIRS DUE TO WATER TAPS/WATER SERVICE LINE TRANSFERS) UNLESS OTHERWISE DENOTED ON THE PLANS. ANY CURB OR SIDEWALK THAT IS DISTURBED OR DAMAGED SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. NO ADDITIONAL COMPENSATION WILL BE PAID AS A RESULT.

17. RESTORATION LIMITS FOR WATER MAIN WORK:
THE CONTRACTOR IS REQUIRED TO RESTORE ALL DISTURBED AREAS OF THE PROJECT AS INDICATED IN THE PLANS, STANDARD DRAWINGS, AND SPECIFICATIONS. PAYMENT FOR THE RESTORATION OF THE AREAS LISTED BELOW SHALL BE PER THE APPROPRIATE BID ITEM. ANY AREAS DISTURBED OUTSIDE OF THE DESIGNATED PAYMENT LIMITS SHALL BE RESTORED AT NO ADDITIONAL COST TO THE CITY. RESTORATION PLAN QUANTITIES WERE DEVELOPED UTILIZING THE FOLLOWING RESTORATION LIMITS:

VALVE BOX REMOVAL – 5–FT X 5–FT AREA
FIRE HYDRANT REMOVAL – 5–FT X 5–FT AREA
CUT AND PLUG OF EXISTING WATER MAIN – 5 FT. X 5 FT. AREA
SHORT WATER TAP TRENCH INSTALLATION
- (D+2)–FT FOR ASPHALT, GRAVEL, AND BRICK/PAVERS (PAVEMENT AND DRIVEWAY REPAIR)
- (D+2)–FT FOR GRASS AREAS
- NEAREST JOINT (TBD BY ENGINEER) FOR CONCRETE PAVEMENT AND DRIVEWAY REPAIR
- ASSUME 5–FT X 5–FT PANEL AREA FOR SIDEWALK REPAIR. PAYMENT TO BE MADE AT ACTUAL PANEL DIMENSIONS.

EXISTING CURB BOX REMOVAL (WHEN LOCATION IS DIFFERENT THAN TIE–IN LOCATION)
- 5–FT X 5–FT FOR ASPHALT, GRAVEL, BRICK/PAVERS
- NEAREST JOINT (TBD BY ENGINEER) FOR CONCRETE PAVEMENT AND DRIVEWAY REPAIR
- ASSUME 5–FT X 5–FT PANEL AREA FOR SIDEWALK REPAIR. PAYMENT TO BE MADE AT ACTUAL PANEL DIMENSIONS.
- 5–FT X 5–FT AREA FOR GRASS AREAS

LONG WATER TAP BORE PITS – 5–FT X 5–FT AREA

18. BACKFILL:
ALL CLEANUP AND BACKFILL OPERATIONS SHALL BE DONE WITHIN 300' OF PIPE LAYING OPERATIONS DURING THE WEEK. ON THE WEEKENDS, BACKFILL SHALL BE WITHIN 20' OF THE END OF THE LAST PIPE LAID.

DURING NON–CONSTRUCTION HOURS, ALL EXCAVATIONS SHALL BE FILLED, PLATED OR PROTECTED (BARRELS AND FENCING) IN SUCH A MANNER AS TO POSITIVELY SEPARATE VEHICLES OR PEDESTRIANS FROM THE WORK.

19. LONG AND SHORT WATER TAP INSTALLATIONS/WATER SERVICE LINE TRANSFERS:
WHERE LONG WATER SERVICE LINE TRANSFERS ARE SPECIFIED, I.E., WATER SERVICE LINES ARE ON THE OPPOSITE SIDE OF THE STREET FROM THE PROPOSED WATER MAIN, THE TAPS SHALL BE INSTALLED BY TRENCHLESS METHODS UNLESS OTHERWISE APPROVED BY THE ENGINEER. FOR WATER SERVICE LINE TRANSFERS SPECIFIED AS SHORT, THE TAPS MAY BE INSTALLED BY OPEN–CUT METHODS. ALL WORK REQUIRED TO INSTALL THE WATER TAPS AND PERFORM THE WATER SERVICE LINE TRANSFERS SHALL REMAIN WITHIN THE RIGHT–OF–WAY. **THE CONTRACTOR SHALL FLUSH EACH WATER TAP PRIOR TO MAKING THE SERVICE LINE TRANSFER.**

20. WATER SERVICE LINE TRANSFER AND WATER MAIN ABANDONMENT:
WHERE INDICATED ON PLANS, THE EXISTING WATER MAINS SHALL BE ABANDONED AND EXISTING WATER SERVICE LINES OFF THESE MAINS, INDICATED ON THE PLANS AND SHOWN BY HOUSE NUMBER, SHALL BE TRANSFERRED TO THE NEW WATER MAINS. CONTRACTOR SHALL VERIFY THE SIZE AND LOCATION OF ALL EXISTING WATER TAPS PRIOR TO BEGINNING THE TAP INSTALLATIONS ON THE NEW MAIN. FERRULE BOXES SHALL BE PROVIDED FOR ALL CURB BOXES LOCATED WITHIN TRAVELED AREAS AS PER ITEM 805. FERRULE BOXES WILL BE PAID FOR UNDER ITEM 805 – C.I. FERRULE VALVE BOX AND COVER. PRIOR TO ABANDONMENT OF EXISTING WATER MAINS, THE PROPOSED NEW WATER MAINS SHALL BE TESTED AND CHLORINATED AND THEN THE EXISTING WATER SERVICE LINES, INDICATED ON THE PLANS AND SHOWN BY HOUSE NUMBER, SHALL BE TRANSFERRED TO THE NEW WATER MAINS. **THE CONTRACTOR SHALL FLUSH EACH WATER TAP PRIOR TO MAKING THE SERVICE LINE TRANSFER.** THE CONTRACTOR SHALL MAINTAIN WATER SERVICE TO ALL WATER CUSTOMERS AFFECTED BY TRANSFER OF SERVICE. PAYMENT FOR THE WATER SERVICE LINE TRANSFER WILL NOT BE MADE UNTIL FINAL GRADING AND RESTORATION HAS OCCURRED.

ALL OTHER EXISTING TAPS SHOWN ON THE PLANS AND NOT INDICATED AS WATER SERVICE LINE TRANSFERS SHALL BE ABANDONED IN PLACE.

EXCAVATION PITS LOCATED OUTSIDE OF THE PAVEMENT FOR WATER TAP AND CURB BOX INSTALLATION SHALL BE BACKFILLED IMMEDIATELY. BACKFILL MATERIAL SHALL MEET THE REQUIREMENTS OF THE SPECIFICATIONS AND STANDARD DRAWINGS. ALL OTHER SPOILS SHALL BE HAULED OFF SITE. CONTRACTOR IS NOT PERMITTED TO LEAVE THESE PITS OPEN, NOR WILL THE CONTRACTOR BE PERMITTED TO MOUND DIRT ADJACENT TO THE PIT. STEEL PLATES, PLYWOOD, AND/OR OTHER BARRICADES ARE NOT AN ACCEPTABLE ALTERNATE FOR BACKFILLING. TEMPORARY SEEDING AND MULCHING PER ITEM 207 MUST BE PERFORMED WITHIN SEVEN (7) DAYS FROM THE TIME THE GROUND IS DISTURBED. THE PITS SHALL BE RE–EXCAVATED WHEN THE WATER SERVICE LINE TRANSFER IS TO BE MADE. THE PIT SHALL THEN BE BACKFILLED IMMEDIATELY AFTER PERFORMING THE WATER SERVICE LINE TRANSFER. THE AREA MUST BE SEEDED AND MULCHED PER ITEM 659 WITHIN SEVEN (7) DAYS OF THE TRANSFER. TO ENSURE THAT ALL EXISTING WATER SERVICE LINES ARE TRANSFERRED TO THE NEW WATER MAIN, NO WATER MAIN SHALL BE ABANDONED UNTIL ALL AFFECTED WATER SERVICE LINES HAVE BEEN TRANSFERRED; THE NEW WATER MAIN IS PUT IN SERVICE; AND THE EXISTING WATER MAIN TO BE ABANDONED HAS BEEN SHUT DOWN FOR 24 HOURS.

WATER SERVICE LINE TRANSFERS ARE NOT PERMITTED ON FRIDAYS (OR THURSDAYS IF CONTRACTOR IS ONLY WORKING MONDAY THROUGH THURSDAY) UNLESS THE CONTRACTOR CAN CONFIRM THAT THE CUSTOMER HAS WATER. THIS INCLUDES VERBAL CONFIRMATION WITH THE CUSTOMER AND SHOULD BE ORGANIZED PRIOR TO MAKING THE WATER TAP TRANSFER. ON FRIDAYS (OR THURSDAYS IF CONTRACTOR IS ONLY WORKING MONDAY THROUGH THURSDAY), CONFIRMING WATER SERVICE LINE TRANSFER BY MEANS OF A HOSE BIB ONLY IS NOT PERMITTED. **ALL WATER SERVICE LINE TRANSFERS SHALL BE PERFORMED BETWEEN THE HOURS OF 9:00 A.M. AND 5:00 P.M, UNLESS OTHERWISE APPROVED BY THE DIVISION OF WATER ENGINEER.**

ALL VISIBLE VALVE BOXES, FIRE HYDRANTS, AND CURB BOXES ON THE WATER MAIN TO BE ABANDONED, WHICH WILL NO LONGER BE IN SERVICE, SHALL BE REMOVED. FIRE HYDRANTS SHALL BE DELIVERED TO THE DIVISION OF WATER AT 910 DUBLIN ROAD, COLUMBUS, OHIO. FOR FIRE HYDRANTS LOCATED WITHIN THE FRANKLIN TOWNSHIP LIMITS ALDIE/FRANK ROAD AND W. BROAD STREET, THE CONTRACTOR SHALL DELIVER THE FIRE HYDRANTS TO FRANKLIN TOWNSHIP AT 2193 FRANK ROAD, COLUMBUS, OH. ALL WATER MAINS TO BE ABANDONED SHALL BE MADE WATERTIGHT. THE COST TO ABANDON THE EXISTING WATER MAIN, REMOVE ABANDONED VALVE AND CURB BOXES, REMOVE HYDRANTS, AND DELIVER HYDRANTS TO THE DIVISION OF WATER IS TO BE INCLUDED IN THE PRICE BID UNDER ITEM 801. THE REQUIRED SURFACE RESTORATION SHALL BE PAID FOR UNDER THE APPROPRIATE BID ITEM(S).

21. HYDROSTATIC TESTING:
ALL WATER MAINS SHALL BE PRESSURE TESTED IN ACCORDANCE WITH SECTION 801.14 OF THE CITY OF COLUMBUS CONSTRUCTION AND MATERIAL SPECIFICATIONS, WITH THE FOLLOWING EXCEPTION: **150 PSI OF PRESSURE SHALL BE MAINTAINED FOR AT LEAST TWO HOURS IN ANY TESTED SECTION.**

22. EXISTING PLUGS, CAPS, ETC.:
PLUGS AND CAPS REMOVED FROM EXISTING WATER MAINS SHALL BE DELIVERED TO THE WATER SERVICES CENTER, 910 DUBLIN ROAD, COLUMBUS, OHIO, UNLESS OTHERWISE DIRECTED BY THE ENGINEER. NO ADDITIONAL PAYMENT WILL BE MADE FOR THIS DELIVERY.

23. FIRE HYDRANT REPLACED OR RELOCATED:
NO EXISTING FIRE HYDRANTS TO BE REPLACED OR RELOCATED SHALL BE REMOVED, OR TAKEN OUT OF SERVICE, UNTIL THE NEW WATER MAINS ARE IN SERVICE AND THE NEW FIRE HYDRANTS ARE ACCEPTED BY THE DIVISION OF FIRE. THE CONTRACTOR SHALL CONTACT THE DIVISION OF FIRE AT 645–7641 EXT. 75658 TO SCHEDULE THE INSPECTION OF THE NEW FIRE HYDRANTS. *FOR FIRE HYDRANTS OWNED BY A TOWNSHIP, CONTRACTOR SHALL COORDINATE WITH THE TOWNSHIP FIRE DEPARTMENT REGARDING INSPECTION.*

THE DIVISION OF WATER WILL PROVIDE THE CONTRACTOR "OUT OF SERVICE" RINGS THAT SHALL BE PLACED ON ALL NEW 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 NEW FIRE HYDRANTS. ONCE A WATER MAIN IS ABANDONED, THE "OUT OF SERVICE" RINGS SHALL BE PLACED ON THE ABANDONED FIRE HYDRANTS UNTIL THE HYDRANT IS COMPLETELY REMOVED. ALL "OUT OF SERVICE" RINGS SHALL BE RETURNED TO THE DIVISION OF WATER. ALL COORDINATION AND WORK REQUIRED TO TEST AND ACCEPT NEW FIRE HYDRANTS SHALL BE INCLUDED IN THE PRICE BID FOR ITEM 809.

24. SIGNS, FENCES, DRAINAGE STRUCTURES, CASTINGS, ETC.:
ALL PUBLIC SIGNS, FENCES, DRAINAGE STRUCTURES, CASTINGS, OR OTHER PHYSICAL FEATURES DISTURBED OR DAMAGED DURING WORK UNDER THIS CONTRACT SHALL BE RESTORED TO THEIR ORIGINAL CONDITION BY THE CONTRACTOR. UNLESS OTHERWISE PROVIDED IN THE CONTRACT, THE COST OF ALL SUCH WORK SHALL BE INCLUDED IN THE PRICE BID FOR THE VARIOUS WATER MAIN ITEMS.

25. REPLACEMENT OF DRAIN TILE/UNDERDRAIN AND STORM SEWERS:
ALL DRAIN TILE/UNDERDRAIN AND STORM SEWERS DAMAGED, DISTURBED OR REMOVED AS A RESULT OF THE CONTRACTORS OPERATIONS SHALL BE REPLACED WITH THE SAME QUALITY PIPE OR BETTER, MAINTAINING THE SAME GRADIENT AS EXISTING. REPLACED DRAIN TILE SHALL BE LAID ON COMPACTED GRANULAR BEDDING. COST TO BE INCLUDED IN THE PRICE BID FOR THE VARIOUS WATER MAIN ITEMS.

26. SEEDING AND MULCHING:
IN GENERAL, GRASSY AREAS WITHIN STREET OR HIGHWAY RIGHT–OF–WAY WILL BE CONSIDERED URBAN IN CHARACTER AND SEEDED AS PER ITEM 659, CLASS 1 LAWN MIXTURE. USE OF WOOD FIBER MULCH IS REQUIRED FOR FINAL MULCHING, AND STRAW OR COMPOST MULCH WILL NOT BE PERMITTED. THE CONTRACTOR WILL ONLY BE PAID ONE TIME FOR EACH LOCATION OF FINAL SEEDING AND MULCHING. THE CONTRACTOR WILL BE HELD RESPONSIBLE FOR ANY ADDITIONAL FINAL SEEDING AND MULCHING REQUIRED. PER STANDARD DRAWING L–6309 B & D, PLACEMENT OF 6–INCHES OF TOPSOIL IS TO BE INCLUDED IN THE PRICE BID FOR ITEM 659 SEEDING AND MULCHING.

27. MAINTAINING MAIL SERVICE:
THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING MAIL SERVICE IN THE CONSTRUCTION AREA. PRIOR TO DISTURBING ANY MAIL BOXES THE CONTRACTOR SHALL CONTACT THE POSTAL AUTHORITIES AND SHALL TEMPORARILY RELOCATE MAILBOXES IN ACCORDANCE WITH THE REQUIREMENTS THEREFORE. THE CONTRACTOR SHALL RESTORE MAILBOXES TO THEIR ORIGINAL CONDITION AND LOCATION. COST TO BE INCLUDED IN THE PRICE BID FOR THE VARIOUS WATER MAIN ITEMS.

28. TRACKING OF MUD:
ANY MUD TRACKED OR DEPOSITION OF BUILDING MATERIALS OR DEBRIS UPON PUBLIC RIGHT–OF–WAY SHALL BE CLEANED OFF IMMEDIATELY. ANY WORK DONE BY THE CITY TO CLEAN STREETS AS A RESULT OF NEGLIGENCE BY THE CONTRACTOR SHALL BE AT THE CONTRACTOR'S EXPENSE.

29. SEWER LINES:
ALL EXISTING SEWER LINES MAY OR MAY NOT BE SHOWN ON THE PLAN. INDIVIDUAL SERVICE LINES ARE NOT SHOWN AND SHOULD BE LOCATED BY THE CONTRACTOR PRIOR TO COMMENCING ANY WORK. IN CASE OF ANY CONFLICT BETWEEN THE PROPOSED WATER MAINS AND/OR TAPS AND THE EXISTING SANITARY MAINS AND/OR SERVICES, THE WATER MAINS SHALL BE RAISED OR LOWERED, AS DIRECTED BY THE DIVISION OF WATER, WATER ENGINEERING.

LOCATION, SUPPORT, PROTECTION AND RESTORATION OF ALL SEWER LINES, SERVICES AND APPURTENANCES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. IF A FACILITY IS DAMAGED BY THE CONTRACTOR, ALL REPAIRS SHALL BE MADE IN ACCORDANCE WITH THE CITY OF COLUMBUS' CONSTRUCTION AND MATERIAL SPECIFICATIONS, AT THE CONTRACTOR'S EXPENSE.

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

THE CITY OF COLUMBUS WILL ONLY LOCATE AND MARK MAIN LINE SEWERS. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL SERVICE LATERALS WHETHER SHOWN ON THE PLAN OR NOT. **WHEN A SEWER MAIN/SERVICE (STORM OR SANITARY) IS DAMAGED DURING CONSTRUCTION, PLEASE CALL THE PERMIT OFFICE AT (614) 645–7490 TO REQUEST AN INSPECTION OF THE REPAIR.** IF IT IS AFTER HOURS, LEAVE A MESSAGE WITH THE PERMIT OFFICE, AND COMPLETE THE REPAIR. IF A PERMIT OFFICE INSPECTOR IS UNABLE TO INSPECT THE REPAIR, TAKE SEVERAL PICTURES, DOCUMENT WHAT OCCURRED, AND SUBMIT THE "RECORD ONLY" PERMIT THE NEXT BUSINESS DAY. THE CONTRACTOR WILL NOT BE REQUIRED TO PAY A FEE FOR THE PERMIT. ANY DAMAGE TO MAIN SEWER LINES OR SERVICE LATERALS IS THE RESPONSIBILITY OF THE CONTRACTOR. ALL REPAIRS MUST BE PERFORMED BY A LICENSED SEWER CONTRACTOR.

IN CERTAIN AREAS INDICATED ON THE PLANS, SANITARY SEWER LATERALS MAY BE IN CONFLICT WITH THE WATER MAIN INSTALLATION. THE WATER MAIN PROFILES SHOWN HAVE ACCOUNTED FOR THESE POTENTIAL CONFLICTS BASED ON THE INFORMATION AVAILABLE, AND MAY OR MAY NOT REFLECT ACTUAL FIELD CONDITIONS. THE CONTRACTOR SHALL LOCATE THE SANITARY SERVICE LINES AT LEAST 100 FEET AHEAD OF HIS WORK TO VERIFY HORIZONTAL AND VERTICAL LOCATIONS. THESE LOCATIONS SHALL BE REPORTED TO THE DIVISION OF WATER ENGINEER TO DETERMINE IF ADJUSTMENTS SHALL BE MADE TO THE WATER MAIN PROFILE.

30. FOR THE DIVISION OF POWER:
THE DIVISION OF POWER, CITY OF COLUMBUS, OHIO HAS FACILITIES THROUGHOUT THE SUBJECT IMPROVEMENT. THE CONTRACTOR IS HEREBY REQUIRED TO CONTACT THE DIVISION BY FAX (614) 645–7150 (FAX), FORTY–EIGHT (48) HOURS PRIOR TO CONDUCTING ANY ACTIVITY WITHIN THE CONSTRUCTION AREA. THE DOP DISPATCH OFFICE NUMBER IS: (614) 645–7627 (VOICE).

ANY REQUIRED RELOCATION, SUPPORT, PROTECTION, OR ANY OTHER ACTIVITY CONCERNED WITH THE CITY'S STREET LIGHTING SYSTEM IN THE CONSTRUCTION AREA IS TO BE PERFORMED BY THE CONTRACTOR UNDER THE DIRECTION OF DIVISION OF POWER (DOP) PERSONNEL AND AT THE EXPENSE OF THE PROJECT. DOP SHALL MAKE ALL FINAL CONNECTIONS TO DOP'S EXISTING ELECTRICAL SYSTEM AT THE EXPENSE OF THE PROJECT. THE CONTRACTOR SHALL USE MATERIAL AND MAKE REPAIRS TO A CITY OF COLUMBUS STREET LIGHTING SYSTEM BY FOLLOWING THE DOP "MATERIAL AND INSTALLATION SPECIFICATIONS" (MIS) AND THE CITY OF COLUMBUS "CONSTRUCTION AND MATERIAL SPECIFICATIONS" (CMS). ANY NEW OR RE–INSTALLED UNDERGROUND STREETLIGHT SYSTEM SHALL REQUIRE TESTING AS REFERRED TO IN SECTION 1001.18 OF THE CMS MANUAL. THE CONTRACTOR SHALL CONFORM TO THE DOP'S EXISTING CONDUCTOR SAFETY POLICY AND HOLD CARD SYSTEM (MIS–95 & 177), COPIES OF WHICH ARE AVAILABLE FROM THE DOP. IF YOU HAVE ANY QUESTIONS, CALL CHRIS VOGEL AT (614) 645–6963.

IF ANY ELECTRIC FACILITY BELONGING TO THE DOP IS DAMAGED IN ANY MANNER BY THE CONTRACTOR, ITS AGENTS, SERVANTS, OR EMPLOYEES, AND REQUIRES EMERGENCY REPAIRS, THE DOP SHALL MAKE ALL NECESSARY REPAIRS, AND THE EXPENSE OF SUCH REPAIRS AND OTHER RELATED COSTS SHALL BE PAID BY THE CONTRACTOR TO THE DOP, CITY OF COLUMBUS, OHIO.

31. MAINTAINING TRAFFIC:
UNLESS OTHERWISE PROVIDED FOR IN THE CONTRACT, THE COST OF ALL WORK ASSOCIATED WITH MAINTAINING TRAFFIC NOTES SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 614– MAINTAINING TRAFFIC. SEE SHEETS 45 THROUGH 49 FOR MAINTENANCE OF TRAFFIC NOTES AND DETAILS.

32. CONSTRUCTION SEQUENCING:
THE CONTRACTOR SHALL SEQUENCE CONSTRUCTION AS TO MINIMIZE THE NUMBER OF TIMES THAT CUSTOMERS ARE WITHOUT WATER SERVICE. THE MAXIMUM NUMBER OF SERVICE INTERRUPTIONS TO ANY ONE CUSTOMER DURING THE CONSTRUCTION OF THE PROJECT SHALL BE TWO (2). THE SERVICE INTERRUPTION SHALL LAST NO LONGER THAN 4 HOURS UNLESS APPROVED IN WRITING BY THE CITY. THE CONTRACTOR SHALL GIVE WRITTEN NOTICE TO ALL AFFECTED PROPERTY OWNERS AT LEAST 24 HOURS, BUT NOT MORE THAN 72 HOURS, PRIOR TO ANY DISRUPTION OF WATER SERVICE.

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 NEW MAINS INCLUDING THE SOURCE OF WATER AND LOCATION/SIZE 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.

33. WATER MAIN CONNECTIONS:
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 3–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.

34. COTA:
TWO WEEKS PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL CONTACT PAUL EVANS OF THE CENTRAL OHIO TRANSIT AUTHORITY (COTA) AT 614–308–4373, FAX – 614–275–5933, OR EMAIL – EVANSMP1@COTA.COM TO COORDINATE PROPER BUS MOVEMENTS THROUGH AND AROUND THE JOBSITE DURING CONSTRUCTION. THIS INCLUDES, BUT IS NOT LIMITED TO, THE TEMPORARY RELOCATION OR REMOVAL OF COTA SIGNS AND/OR BUS STOP LOCATIONS.

35. FIRE HYDRANT PAINT COLOR:
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. THIS GENERAL NOTE SHALL SUPERSEDE THE CURRENT PAINT DESCRIPTION SPECIFIED IN ITEM 809.02 IN THE 2018 CMSC SPECIFICATIONS. FOR FIRE HYDRANTS LOCATED WITHIN THE FRANKLIN TOWNSHIP LIMITS ALONG FRANK ROAD AND W. BROAD STREET, THE CONTRACTOR SHALL COORDINATE WITH THE TOWNSHIP REGARDING THE FIRE HYDRANT PAINT COLOR.

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

FOR FIRE HYDRANTS WITHIN THE TOWNSHIP, WRITTEN PERMISSION MUST BE OBTAINED FROM THE TOWNSHIP. THIS WRITTEN PERMISSION MUST BE PROVIDED TO THE CITY OF COLUMBUS PERMIT OFFICE WHEN APPLYING FOR A FIRE HYDRANT PERMIT WITHIN A TOWNSHIP.

37. FIRE HYDRANT MAINTENANCE:
THE BARREL OF ANY FIRE HYDRANT USED BETWEEN THE DATES OF SEPTEMBER 15 AND APRIL 15 SHALL BE PUMPED DRY TO THE FOOT VALVE OF THE HYDRANT OR A MINIMUM OF 5 FEET BELOW SURFACE OF EXISTING GROUND, BY THE CONTRACTOR, IMMEDIATELY AFTER EACH TIME THE HYDRANT IS OPERATED.

38. BRASS FITTINGS:
ALL BRASS FITTINGS ASSOCIATED WITH WATER WORK, INCLUDING REPAIRS TO THE EXISTING SYSTEM, SHALL CONFORM TO THE **REVISED ALLOWABLE LEAD EXTRACTION LIMIT PER THE UPDATED NSF/ANSI 61 STANDARD**. THE DIVISION OF WATER'S APPROVED MATERIALS LIST HAS BEEN UPDATED TO REFLECT THIS REQUIREMENT.

39. FRANKLIN COUNTY NOTIFICATION (FRANK ROAD):
THE CONTRACTOR SHALL NOTIFY THE FRANKLIN COUNTY ENGINEER, TELEPHONE (614) 462–3072, FORTY–EIGHT (48) HOURS IN ADVANCE OF COMMENCING ANY WORK.

40. FRANKLIN COUNTY PERMIT (FRANK ROAD):
ALL WORK OUTSIDE THE CITY OF COLUMBUS, WITHIN THE FRANKLIN COUNTY ROAD RIGHT–OF–WAY, IS SUBJECT TO THE INSPECTION AND APPROVAL OF THE FRANKLIN COUNTY ENGINEER. THE CONTRACTOR SHALL SECURE A WRITTEN PERMIT FROM THE FRANKLIN COUNTY ENGINEER ((614)–525–3063), 970 DUBLIN ROAD, COLUMBUS, OHIO 43215, 48 HOURS IN ADVANCE OF STARTING ANY WORK WITHIN THE COUNTY RIGHT–OF–WAY. THE CONTRACTOR SHALL PROVIDE THE FRANKLIN COUNTY ENGINEER'S OFFICE A RIGHT–OF–WAY RESTORATION SURETY FOR THE PERMIT AND A 24–HOUR TELEPHONE NUMBER TO BE USED IN CASE OF AN EMERGENCY. WHEN STEEL PLATES ARE UTILIZED, CONTRACTOR SHALL ENSURE PROPER SIGNAGE IS USED INDICATING THE PLATE LOCATIONS. CONTRACTOR SHALL REPORT STEEL PLATE LOCATIONS TO THE FRANKLIN COUNTY ENGINEER'S OFFICE AT 614–525–3072.

41. BIKE PATHS:
ANY OR ALL ACTIVITIES THAT MAY BE ADJACENT TO OR COULD POTENTIALLY DISTURB A CITY BIKE PATH OR HAVE ANY IMPACTS TO NORMAL BIKE PATH FLOW MUST CONTACT THE RECREATION AND PARKS DEPT. GREENWAYS PLANNER AT BRWESTALL@COLUMBUS.GOV OR 614–645–2441 AND PROPERTY MANAGER, TINA MOHN AT TMMOHN@COLUMBUS.GOV OR 614–645–3395, PRIOR TO ANY WORK COMMENCING. CONTRACTOR MUST PROVIDE A MINIMUM OF 2 WEEKS COORDINATION TIME FOR ONSITE MEETINGS, SIGNAGE PLACEMENT, RESTORATION PLANNING, DISTURBANCE AND/OR CLEARING LIMIT REVIEW. UNLESS SPECIFICALLY NOTED ON THESE PLANS, ACCESS TO OR USE OF ANY CITY BIKE PATH OR AREA ADJACENT TO A BIKE PATH IS NOT GRANTED OR IMPLIED.

42. CONTRACTOR SUBMITTALS:
THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING THE FOLLOWING SUBMITTALS EITHER AT THE PRE–CONSTRUCTION MEETING OR PRIOR TO BEGINNING CONSTRUCTION, INCLUDING BUT NOT LIMITED TO:

DUE AT PRE–CONSTRUCTION MEETING
- PROJECT SCHEDULE
- SUB–CONTRACTOR AND SUPPLIER LIST
- EMERGENCY CONTACTS LIST
- STORM WATER POLLUTION PREVENTION PLAN (SWPPP)

DUE PRIOR TO BEGINNING CONSTRUCTION
- CONSTRUCTION SEQUENCING PLAN
- ALL PERTINENT MATERIALS AS LISTED ON THE DIVISION OF WATER'S APPROVED MATERIALS LIST. **FOR PROJECTS IN WHICH MATERIALS MUST MEET AMERICAN IRON & STEEL (AIS) REQUIREMENTS, THE CONTRACTOR SHALL SUBMIT A CERTIFIED LETTER FROM THE VENDOR STATING THAT THE MATERIALS BEING SUPPLIED MEET THE AIS REQUIREMENT. THE LETTER SHALL CONTAIN THE PROJECT NAME, LIST OF PRODUCTS, LOCATION OF WHERE THE PRODUCT WAS MANUFACTURED, A REFERENCE TO MEETING AIS REQUIREMENTS, AND A SIGNATURE FROM A REPRESENTATIVE OF THE VENDOR.**
- ANY SPECIAL MATERIALS OR ITEMS REQUIRED BY THE PROJECT SPECIFICATIONS (HORIZONTAL DIRECTIONAL DRILLING ITEMS, CURED IN PLACE PIPING ITEMS, TEMPORARY WATER MAIN ITEMS, ETC.)

43. ITEM SPECIAL – SEDIMENT AND EROSION CONTROL:
IN ADDITION TO THE INFORMATION LISTED IN ITEM 207 OF THE CMSC, THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR PREPARING AND COMPLYING WITH A STORM WATER POLLUTION PREVENTION PLAN (SWPPP). **APPEARING ON THE STORM WATER POLLUTION PREVENTION PLAN SHALL BE A CERTIFICATION (SIGNATURE AND SEAL) BY A PROFESSIONAL ENGINEER, REGISTERED IN THE STATE OF OHIO, THAT THE PLAN HAS BEEN PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF ARTICLE 6.2 OF THE CITY'S EROSION AND SEDIMENT CONTROL REGULATION (ADOPTED JUNE 1, 1994)**. LAND DISTURBANCE AREAS LESS THAN ONE ACRE AND NOT PART OF A LARGER COMMON PLAN OF DEVELOPMENT ARE NOT REQUIRED TO SUBMIT TO THE CITY OF COLUMBUS A FULL SCALE EROSION AND SEDIMENT CONTROL PLAN FOR APPROVAL. HOWEVER, THE PROPOSED LAND DISTURBING ACTIVITIES MUST COMPLY WITH ALL OF THE PROVISIONS OF THE DIVISION OF SEWERAGE AND DRAINAGE EROSION AND SEDIMENT CONTROL REGULATION.

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

ON–SITE CONTACT:
PHONE:
FAX:
E–MAIL:
SITE IS TRIBUTARY TO: SCIOTO RIVER, EDSEL AVENUE AND EDSEL COURT: ALUM CREEK

THE CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING, INSTALLING, INSPECTING, MAINTAINING, AND REMOVING ALL TEMPORARY EROSION AND SEDIMENT CONTROLS FOR THE WORK AS REQUIRED BY GOVERNING LOCAL, STATE AND FEDERAL AGENCIES AS WELL AS ITEM 207 OF THE CMSC. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PAYMENT OF ALL PERMIT FEES ASSOCIATED WITH THE EROSION AND SEDIMENT CONTROLS. ALL EXPENDITURES REQUIRED FOR THIS WORK SHALL BE PAID FOR UNDER THE LUMP SUM CONTRACT PRICE FOR ITEM SPECIAL – SEDIMENT AND EROSION CONTROL. IF NO SPECIFIC ITEM FOR EROSION CONTROL IS LISTED IN THE CONTRACT DOCUMENTS, THEN THE COST SHALL BE INCLUDED IN THE VARIOUS WATER MAIN ITEMS.

44. ITEM SPECIAL – PERMANENT PAVEMENT:
UNLESS OTHERWISE SHOWN ON THE PLANS, OR WHEN ORDERED BY THE ENGINEER, PERMANENT PAVEMENT REPLACEMENT SHALL BE PROVIDED, FOR ALL STREETS CUT BY THE CONTRACTOR, AS SPECIFIED UNDER ITEM 259 AND STANDARD DRAWING 1441, EXCEPT AS HEREIN MODIFIED. A QUANTITY OF 0.15 GALLONS OF TACK COAT SHALL BE APPLIED PER SQUARE YARD OF PAVEMENT RESURFACING (IF APPLICABLE TO THE PROJECT). LIMITING LINES FOR MEASUREMENT OF PERMANENT PAVEMENT SHALL BE THE DIAMETER OF THE WATER MAIN PLUS TWO FEET (D+2') FOR WATER MAINS LESS THAN 36 INCHES IN DIAMETER. FOR WATER MAINS 36 INCHES IN DIAMETER OR LARGER, LIMITING LINES FOR MEASUREMENT OF PERMANENT PAVEMENT SHALL BE THE DIAMETER OF THE WATER MAIN PLUS FOUR FEET (D+4'). TRENCH SHALL BE BACKFILLED TO THE TOP OF THE PAVEMENT SUBGRADE USING GRANULAR MATERIAL MEETING THE REQUIREMENTS OF ITEMS 304.02 OR 703.11. ALL PERMANENT PAVEMENT MARKINGS (CROSSWALKS, RAISED PAVEMENT MARKERS, ETC.) DISTURBED OR DAMAGED DURING WORK UNDER THIS CONTRACT SHALL BE RESTORED TO THEIR ORIGINAL CONDITION BY THE CONTRACTOR. UNLESS OTHERWISE PROVIDED IN THE CONTRACT, THE COST OF ALL SUCH WORK, WITH THE EXCEPTION OF HEAT WELDING, SHALL BE INCLUDED IN THE PRICE BID FOR ITEM SPECIAL – PERMANENT PAVEMENT. PAYMENT FOR HEAT WELDING PROCESS SHALL BE PAID FOR AS A SEPARATE BID ITEM UNDER ITEM SPECIAL – HEAT WELDING.

ALL PAVEMENT REPLACEMENT LOCATED OUTSIDE OF THE CITY OF COLUMBUS LIMITS AND WITHIN FRANKLIN COUNTY RIGHT–OF–WAY SHALL BE PER CITY OF COLUMBUS STANDARD DRAWING 1441 AND THE GENERAL NOTE FOR ITEM SPECIAL – PERMANENT PAVEMENT WITH THE FOLLOWING EXCEPTIONS:

PAVEMENT REPLACEMENT IN A FLEXIBLE PAVEMENT SECTION SHALL MATCH THE EXISTING MATERIAL TYPE AND THICKNESSES (MINIMUM OF 9" PAVEMENT SECTION). CONCRETE IS NOT PERMITTED AS A REPLACEMENT MATERIAL WITHIN A FLEXIBLE PAVEMENT SECTION. THE REQUIRED OVERLAY THICKNESS SHALL BE 1.5 INCHES OF ITEM 441 ASPHALT CONCRETE IN ALL AREAS OF RESURFACING.

45. ITEM SPECIAL – HEAT WELDING:
WHERE REQUIRED BY THE PLANS AND SPECIFICATIONS, CONTRACTOR SHALL PERFORM HEAT WELDING AS PER STANDARD DRAWING 1441. PAYMENT WILL BE MADE ON A SQUARE YARDAGE BASIS.

46. ITEM SPECIAL – SURVEY COORDINATES:
"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, 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 (NSRS2007) 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 XXXXXX.XX, E XXXXXX.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.

47. ITEM SPECIAL – PROJECT IDENTIFICATION SIGNS:
THE CONTRACTOR SHALL FURNISH, INSTALL AND MAINTAIN *XXXXX (X)* SIGNS AT THE LOCATIONS LISTED BELOW. ALL COSTS FOR PROJECT IDENTIFICATION SIGNS SHALL BE INCLUDED IN ITEM SPECIAL – PROJECT IDENTIFICATION SIGNS.

THE SIGNS SHALL BE PLACED TO FACE TRAFFIC IN THE PUBLIC RIGHT–OF–WAY, SUCH AS THE TREE LAWN OR AREA NEAR THE CURB, WHERE THE SIGN WOULD BE MOST VISIBLE. SIGNS SHALL BE PLACED SUCH AS NOT TO BLOCK THE VISIBILITY OF OTHER SIGNS. SIGNS SHALL BE INSTALLED A MINIMUM OF 2 WEEKS PRIOR TO CONSTRUCTION. PROVIDE SIGNS AT THE LOCATIONS INDICATED IN THE PLAN PER STANDARD DRAWING L–1002.

48. ITEM SPECIAL – TEMPORARY SEEDING AND MULCHING:
THE CONTRACTOR SHALL PROVIDE TEMPORARY SEEDING AND MULCHING AS PER ITEM 207.03 AND WITHIN SEVEN (7) DAYS OF DISTURBANCE. THE EXCAVATIONS SHALL BE GRADED PRIOR TO PLACING THE TEMPORARY SEED AND MULCH. DURING THE MONTHS OF DECEMBER THROUGH FEBRUARY, CONTRACTOR SHALL PLACE MULCH AT A MINIMUM, BUT TEMPORARY SEEDING IS NOT REQUIRED. THE CONTRACTOR WILL ONLY BE REIMBURSED ONE TIME FOR EACH, RAISED PAVEMENT MARKINGS (CROSSWALKS, ETC.) DISTURBED OR DAMAGED DURING WORK UNDER THIS CONTRACT SHALL BE RESTORED TO THEIR ORIGINAL CONDITION BY THE CONTRACTOR. UNLESS OTHERWISE PROVIDED IN THE CONTRACT, THE COST OF ALL SUCH WORK, WITH THE EXCEPTION OF HEAT WELDING, SHALL BE INCLUDED IN THE PRICE BID FOR ITEM SPECIAL – PERMANENT PAVEMENT. PAYMENT FOR HEAT WELDING PROCESS SHALL BE PAID FOR AS A SEPARATE BID ITEM UNDER ITEM SPECIAL – HEAT WELDING.

ALL PAVEMENT REPLACEMENT LOCATED OUTSIDE OF THE CITY OF COLUMBUS LIMITS AND WITHIN FRANKLIN COUNTY RIGHT–OF–WAY SHALL BE PER CITY OF COLUMBUS STANDARD DRAWING 1441 AND THE GENERAL NOTE FOR ITEM SPECIAL – PERMANENT PAVEMENT WITH THE FOLLOWING EXCEPTIONS:

PAVEMENT REPLACEMENT IN A FLEXIBLE PAVEMENT SECTION SHALL MATCH THE EXISTING MATERIAL TYPE AND THICKNESSES (MINIMUM OF 9" PAVEMENT SECTION). CONCRETE IS NOT PERMITTED AS A REPLACEMENT MATERIAL WITHIN A FLEXIBLE PAVEMENT SECTION. THE REQUIRED OVERLAY THICKNESS SHALL BE 1.5 INCHES OF ITEM 441 ASPHALT CONCRETE IN ALL AREAS OF RESURFACING.

49. ITEM SPECIAL – REMOVAL OF RAILROAD TRACKS:
IN THE PAST THERE WAS AN ELECTRIC RAILWAY WITHIN THE WEST BROAD STREET RIGHT–OF–WAY. THE TRACK MAY STILL BE IN EXISTENCE, EITHER BURIED UNDER THE PAVEMENT AND/OR UNDER THE LAWN SURFACE. AT PRESENT THERE ARE NO KNOWN PLANS THAT EXIST OF THE TRACKS LOCATION.

THE CONTRACTOR SHALL REMOVE THE RAILROAD TRACK WHEREVER IT IS EXPOSED WITHIN THE LIMITS OF EXCAVATION TO INSTALL THE IMPROVEMENTS UNDER THIS PROJECT. THE REMOVAL WILL INCLUDE THE RAILS, CROSS TIES, BALLAST AND ANY CONCRETE SUBGRADE.

THE UNIT PRICE BID SHALL INCLUDE ALL LABOR, MATERIALS AND EQUIPMENT NECESSARY FOR THE REMOVAL OF THE RAILROAD TRACK WHICH CONSISTS OF THE RAILS, CROSS TIES, BALLAST AND CONCRETE SUBGRADE AND SHALL ALSO INCLUDE EXCAVATION, PROPER DISPOSAL, BACKFILLING AND REGRADING AS NECESSARY.

THIS ITEM WILL BE PAID AS:
ITEM SPECIAL – REMOVAL OF RAILROAD TRACKS – 500 FT

50. CONSTRUCTION MANAGEMENT INFORMATION SYSTEMS (CMIS):
THE CONSTRUCTION MANAGEMENT INFORMATION SYSTEMS (CMIS) IS A WEB BASED ELECTRONIC CONSTRUCTION MANAGEMENT SYSTEM THAT HAS BEEN DESIGNED SPECIFICALLY FOR THE CITY OF COLUMBUS. THE CONTRACTOR SHALL UTILIZE THE CMIS AS PART OF THIS CONTRACT FOR ITEMS SUCH AS, BUT NOT LIMITED TO, SUBMITTALS, QUANTITY REVIEWS, DAILY INSPECTION REPORT REVIEWS, PAY APPLICATIONS, REQUESTS FOR INFORMATION, CHANGE ORDERS, REQUESTS FOR PROPOSALS, AND OTHER SUCH ITEMS THAT ARE INCLUDED IN THE CONSTRUCTION PROCESS. THE CONTRACTOR IS REQUIRED TO ATTEND TRAINING ON THE CMIS PRIOR TO BEGINNING ANY CONTRACT WORK AND SHALL COORDINATE WITH THE CITY TO SCHEDULE ANY TRAINING SESSIONS.

51. AMERICAN IRON AND STEEL (AIS) REQUIREMENTS, IF APPICABLE:
FOR PROJECTS IN WHICH MATERIALS MUST MEET AMERICAN IRON & STEEL (AIS) REQUIREMENTS, THE CONTRACTOR SHALL SUBMIT A CERTIFIED LETTER FROM THE VENDOR STATING THAT THE MATERIALS BEING SUPPLIED MEET THE AIS REQUIREMENT. THE LETTER SHALL CONTAIN THE PROJECT NAME, LIST OF PRODUCTS, LOCATION OF WHERE THE PRODUCT WAS MANUFACTURED, A REFERENCE TO MEETING AIS REQUIREMENTS, AND A SIGNATURE FROM A REPRESENTATIVE OF THE VENDOR. ALL LETTERS MUST BE RECEIVED PRIOR TO INSTALLATION.

52. REPAIRS TO DAMAGED POLYETHYLENE ENCASEMENT:
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.

53. NEW VALVE BOX ADJUSTMENTS:
RISER RINGS WILL NOT BE PERMITTED ON ANY NEWLY INSTALLED VALVE BOXES TO BRING VALVES TO FINAL GRADE. THE CONTRACTOR SHALL ENSURE THAT THE BOXES ARE INSTALLED AT THE CORRECT GRADE FOR FINAL PAVING OPERATIONS AND THAT THEIR PAVING CONTRACTOR INSTALLS PAVEMENT CORRECTLY AT LIDS DURING PAVING OPERATIONS. VALVE LIDS ARE NOT PERMITTED TO SET ABOVE FINAL GRADE AND SHALL BE A MAXIMUM OF 1/4" BELOW FINAL GRADE.

54. TRENCH DEWATERING:
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.

55. HAND SWABBING AND CHLORINATIONS:
ANY SECTION OF WATER MAIN THAT IS LONGER THAN 20 FEET IN LENGTH SHALL BE CHLORINATED. HAND SWABBING METHODS WILL ONLY BE PERMITTED FOR SECTION LESS THAN OR EQUAL TO 20 FEET IN LENGTH. USE UNSCENTED HOUSEHOLD BLEACH FOR HAND SWABBING OF PIPE AND FITTINGS.

56. PIPING AND FITTINGS FOR CONNECTIONS AND ABANDONMENTS:
ALL PIPING AND FITTINGS ASSOCIATED WITH CONNECTIONS TO EXISTING WATER MAINS AND/OR ABANDONMENTS OF EXISTING WATER MAINS SHALL BE INCLUDED IN THE BID PRICE FOR ITEM 801, UNLESS OTHERWISE NOTED. THIS WORK WILL NOT BE QUANTIFIED SEPARATELY, AND NO ADDITIONAL PAYMENT WILL BE MADE FOR PERFORMING THIS WORK.

ESTIMATE OF QUANTITIES

ITEM	DESCRIPTION	TOTAL	UNIT	SHEET XX	SHEET XX	SHEET XX
254	PAVEMENT PLANING, ASPHALT CONCRETE	X,XXX	SY	XX	XXX	XXX
259	DRIVEWAY PAVEMENT REPLACEMENT, TYPE X	XX	CY			
407	TACK COAT	XXX	GAL			
441	ASPHALT CONCRETE SURFACE COURSE (XXXXX TRAFFIC), PG64-22	XXX	CY			
608	CONCRETE WALK (X")	X	SF			
614	MAINTAINING TRAFFIC	1	LS			
615	TEMPORARY PAVEMENT	XXX	SY			
632	DETECTOR LOOP	XXX	EA			
659	SEEDING AND MULCHING	XXX	SY			
801	6 INCH WATER PIPE & FITTINGS	XX	LF			
801	8 INCH WATER PIPE & FITTINGS	XX	LF			
801	12 INCH WATER PIPE & FITTINGS	XXX	LF			
801	24 INCH WATER PIPE & FITTINGS	XXX	LF			
801	30 INCH WATER PIPE & FITTINGS	XXX	LF			
801	36 INCH WATER PIPE & FITTINGS	XXX	LF			
801	48 INCH WATER PIPE & FITTINGS	X,XXX	LF			
801	CORROSION PROTECTION (20" DIAMETER AND GREATER)	1	LS			
801*	CONCRETE BACKING CLASS COC 6, INCREASE OR DECREASE	XXX	CY			
801*	DUCTILE IRON FITTINGS, INCREASE OR DECREASE	X,XXX	LB			
801*	EXTRA FITTINGS, PCCP CONCRETE OR STEEL, COMPLETE IN PLACE	X,XXX	LB			
801	CATHODIC PROTECTION SYSTEM DESIGN & INSTALLATION – STEEL PIPE	X	LS			
802	6 INCH VALVE & APPURTENANCES	X	EA			
802	8 INCH VALVE & APPURTENANCES	X	EA			
802	12 INCH VALVE & APPURTENANCES	X	EA			
802	24 INCH BUTTERFLY VALVE & APPURTENANCES	X	EA			
802	30 INCH BUTTERFLY VALVE & APPURTENANCES	X	EA			
802	36 INCH BUTTERFLY VALVE & APPURTENANCES	X	EA			
802	48 INCH BUTTERFLY VALVE & APPURTENANCES	X	EA			
803	12 INCH X 6 INCH TAPPING SLEEVE AND VALVE AND APPURTENANCES	X	EA			
805	3/4 INCH WATER SERVICE LINE TRANSFER, LONG	X	EA			
805	1 INCH WATER SERVICE LINE TRANSFER, SHORT	X	EA			

ESTIMATE OF QUANTITIES

ITEM	DESCRIPTION	TOTAL	UNIT	SHEET XX	SHEET XX	SHEET XX
805	2 INCH WATER SERVICE LINE TRANSFER, LONG	X	EA			
805	3 INCH WATER SERVICE LINE TRANSFER	1	EA			
805	4 INCH WATER SERVICE LINE TRANSFER	1	EA			
805	6 INCH WATER SERVICE LINE TRANSFER	1	EA			
805	8 INCH WATER SERVICE LINE TRANSFER	1	EA			
805	X INCH CURB STOP	XX	EA			
805*	CURB BOX	XX	EA			
805*	C.I. FERRULE VALVE BOX AND COVER	XX	EA			
806	X INCH CASING PIPE	XX	LF			
808	CUT AND PLUG (CAP) X INCH WATER MAIN OR WATER TAP	XX	EA			
808	X INCH WATER MAIN ABANDONED	XX	EA			
809	FIRE HYDRANT	XX	EA			
810*	6 INCH HYDRANT EXTENSIONS	XX	EA			
810*	12 INCH HYDRANT EXTENSIONS	XX	EA			
810*	18 INCH HYDRANT EXTENSIONS	XX	EA			
810*	24 INCH HYDRANT EXTENSIONS	XX	EA			
811*	INCREASE OR DECREASE IN EXCAVATION AND BACKFILL	XX	CY			
812	X INCH AIR RELEASE OUTLET	X	EA			
815	CRUSHED STONE OR GRAVEL	XX	CY			
SPEC	PERMANENT PAVEMENT	XX	CY			
SPEC	HEAT WELDING	XX	SY			
SPEC	SURVEY COORDINATES	1	LS			
SPEC	PROJECT IDENTIFICATION SIGNS	X	EA			
SPEC	TEMPORARY SEEDING AND MULCHING	XX	SY			
SPEC	SEDIMENT AND EROSION CONTROLS	1	LS			
SPEC	STANDARD SPEED HUMP REPLACEMENT	XX	EA			
SPEC	INTERSECTION SPEED TABLE REPLACEMENT	XX	EA			
SPEC	BRICK DRIVEWAY REPLACEMENT	XX	SY			
SPEC	X INCH COPPER TUBING AND FITTINGS	XX	LF			
SPEC	TREE REMOVAL AND MITIGATION	XX	ALLOW			

ESTIMATE OF QUANTITIES

ITEM	DESCRIPTION	TOTAL	UNIT	SHEET XX	SHEET XX	SHEET XX
	HORIZONTAL DIRECTIONAL DRILLING (HDD) ITEMS					
SPEC	X INCH DUCTILE IRON WATER PIPE AND FITTINGS, HORIZONTAL DIRECTIONAL DRILLING (HDD)	XX	LF			
SPEC*	ADDITIONAL HORIZONTAL DIRECTIONAL DRILLING (HDD) ACCESS PIT	XX	EA			
	CURED-IN-PLACE PIPING (CIPP) ITEMS					
SPEC	X INCH WATER MAIN CLEANING AND CIPP REHABILITATION	XX	LF			
SPEC*	REMOVAL AND REPLACEMENT OF EXISTING X-INCH VALVE	XX	EA			
SPEC*	REMOVE AND REPLACE CURB STOP, 2 INCHES AND SMALLER	XX	EA			
SPEC	TEMPORARY WATER MAIN AND SERVICE CONNECTIONS	1	LS			
SPEC*	TEMPORARY WATER SERVICE CONNECTION WITHIN BUILDINGS	XX	EA			
SPEC*	TEMPORARY WATER SERVICE CONNECTION AT CURB STOP	XX	EA			
SPEC*	ADDITIONAL CIPP ACCESS PIT	XX	EA			

*** DENOTES CONTINGENCY QUANTITY TO BE USED WITH APPROVAL OF DIVISION OF WATER ONLY.**

ITEM SPECIAL – SURVEY COORDINATES

				AS-BUILT		
SHEET	DESCRIPTION	STATION	OFFSET	NORTHING	EASTING	℄ ELEV.
	MAIN ST.					
8	CUT OUT EX TEE AND INSTALL 12" SLEEVE	XX+XX	5' RT			
8	12" X 8" TEE	XX+XX				
8	8" VALVE	XX+XX				
8	8" X 6" ANCHORING TEE (FOR HYDRANT)	XX+XX				
8	6" VALVE (FOR HYDRANT)	XX+XX	2' RT			
8	FIRE HYDRANT	XX+XX	12' RT			
8	CURB BOX, 3/4" WATER TAP (XXX MAIN STREET)	–	–			N/A
8	CURB BOX, 3/4" WATER TAP (XXX MAIN STREET)	–	–			N/A
8	CURB BOX, 3/4" WATER TAP (XXX MAIN STREET)	–	–			N/A
8	CURB BOX, 3/4" WATER TAP (XXX MAIN STREET)	–	–			N/A
8	CURB BOX, 3/4" WATER TAP (XXX MAIN STREET)	–	–			N/A
8	CURB BOX, 3/4" WATER TAP (XXX MAIN STREET)	–	–			N/A
8	CURB BOX, 3/4" WATER TAP (XXX MAIN STREET)	–	–			N/A
8	CURB BOX, 3/4" WATER TAP (XXX MAIN STREET)	–	–			N/A
8	CURB BOX, 3/4" WATER TAP (XXX MAIN STREET)	–	–			N/A
8	CURB BOX, 3/4" WATER TAP (XXX MAIN STREET)	–	–			N/A
8	8" X 6" ANCHORING TEE	XX+XX				
8	3/4" CURB BOX (XXX MAIN STREET)	–	–			N/A
8	3/4" CURB BOX (XXX MAIN STREET)	–	–			N/A
8	8" X 6" ANCHORING TEE (FOR HYDRANT)	XX+XX				
8	6" VALVE (FOR HYDRANT)	XX+XX	2' RT			
8	FIRE HYDRANT	XX+XX	12' RT			
8	CURB BOX, 3/4" WATER TAP (XXX MAIN STREET)	–	–			N/A
8	CURB BOX, 3/4" WATER TAP (XXX MAIN STREET)	–	–			N/A
8	CURB BOX, 3/4" WATER TAP (XXX MAIN STREET)	–	–			N/A
8	CURB BOX, 3/4" WATER TAP (XXX MAIN STREET)	–	–			N/A
8	CURB BOX, 3/4" WATER TAP (XXX MAIN STREET)	–	–			N/A
8	CURB BOX, 3/4" WATER TAP (XXX MAIN STREET)	–	–			N/A
8	CURB BOX, 3/4" WATER TAP (XXX MAIN STREET)	–	–			N/A
8	CURB BOX, 3/4" WATER TAP (XXX MAIN STREET)	–	–			N/A
8	CURB BOX, 3/4" WATER TAP (XXX MAIN STREET)	–	–			N/A
8	8" X 6" TEE	XX+XX				
8	6" VALVE	XX+XX				

ITEM SPECIAL – SURVEY COORDINATES

				AS-BUILT		
SHEET	DESCRIPTION	STATION	OFFSET	NORTHING	EASTING	℄ ELEV.
	THIRD ST.					
9	REMOVE EX TEE AND INSTALL 12" SLEEVE	XX+XX	12' LT			
9	12" X 8" TEE	XX+XX				
9	8" VALVE	XX+XX				
9	8" X 6" ANCHORING TEE (FOR HYDRANT)	XX+XX				
9	6" VALVE (FOR HYDRANT)	XX+XX	2' LT			
9	6" 45° VERT. BEND (FOR HYDRANT)	XX+XX	8' LT			
9	6" 45° VERT. BEND (FOR HYDRANT)	XX+XX	11' LT			
9	6" 45° VERT. BEND (FOR HYDRANT)	XX+XX	19' LT			
9	6" 90° BEND RTG (FOR HYDRANT)	XX+XX	22' LT			
9	6" VALVE (FOR HYDRANT)	XX+XX	22' LT			
9	FIRE HYDRANT	XX+XX	22' LT			
9	CURB BOX, 3/4" WATER TAP (XXX THIRD STREET)	–	–			N/A
9	8" X 4" TEE (XXX THIRD STREET WS)	XX+XX				
9	4" VALVE (RTT) (XXX THIRD STREET WS)	XX+XX	2' LT			
9	4" VALVE (XXX THIRD STREET WS)	XX+XX	23' LT			
9	4" 45° HORZ. BEND (XXX THIRD STREET WS)	XX+XX	33' LT			
9	4" 45° HORZ. BEND (XXX THIRD STREET WS)	XX+XX	38' LT			
9	CURB BOX, 3/4" WATER TAP (XXX THIRD STREET)	–	–			N/A
9	CURB BOX, 3/4" WATER TAP (XXX THIRD STREET)	–	–			N/A
9	CURB BOX, 3/4" WATER TAP (XXX THIRD STREET)	–	–			N/A
9	CURB BOX, 3/4" WATER TAP (XXX THIRD STREET)	–	–			N/A
9	CURB BOX, 3/4" WATER TAP (XXX THIRD STREET)	–	–			N/A
9	CURB BOX, 3/4" WATER TAP (XXX THIRD STREET)	–	–			N/A
9	CURB BOX, 3/4" WATER TAP (XXX THIRD STREET)	–	–			N/A
9	8" 22.5° VERT. BEND	XX+XX				
9	8" 22.5° VERT. BEND	XX+XX				
9	18" BEGIN CASING PIPE	XX+XX				
9	18" END CASING PIPE	XX+XX				
9	8" 22.5° VERT. BEND	XX+XX				
9	8" 22.5° VERT. BEND	XX+XX				
9	CURB BOX, 3/4" WATER TAP (XXX THIRD STREET)	–	–			N/A
9	8" X 6" ANCHORING TEE (FOR HYDRANT)	XX+XX	2' RT			
9	6" VALVE (FOR HYDRANT)	XX+XX	8' RT			
9	FIRE HYDRANT	XX+XX				
9	CURB BOX, 3/4" WATER TAP (XXX THIRD STREET)	–	–			N/A
9	CURB BOX, 3/4" WATER TAP (XXX THIRD STREET)	–	–			N/A
9	CURB BOX, 3/4" WATER TAP (XXX THIRD STREET)	–	–			N/A
9	CURB BOX, 3/4" WATER TAP (XXX THIRD STREET)	–	–			N/A

ITEM SPECIAL – SURVEY COORDINATES

				AS-BUILT		
SHEET	DESCRIPTION	STATION	OFFSET	NORTHING	EASTING	℄ ELEV.
9	CURB BOX, 3/4" WATER TAP (XXX THIRD STREET)	–	–			N/A
9	CURB BOX, 3/4" WATER TAP (XXX THIRD STREET)	–	–			N/A
9	CURB BOX, 3/4" WATER TAP (XXX THIRD STREET)	–	–			N/A
9	CURB BOX, 3/4" WATER TAP (XXX THIRD STREET)	–	–			N/A
9	8" VALVE	XX+XX				
XX	CURB BOX, 1-1/2" WATER TAP (XXX MAIN STREET)	–	–			N/A
XX	12" X 8" REDUCER	XX+XX	XX+XX			
XX	8" CROSS	XX+XX				
XX	3° HORIZ. DEFLECTION (RT)	XX+XX				
XX	6" VALVE	XX+XX				
XX	6" 45° HORIZ. BEND (LT)	XX+XX				
XX	6" 45° HORIZ. BEND (RT)	XX+XX				
XX	6" VALVE (FOR HYDRANT)	XX+XX				
XX	FIRE HYDRANT	XX+XX				
XX	3/4" AIR RELEASE OUTLET BOX	XX+XX	XX+XX			
XX	4° HORIZ. DEFLECTION (RT)	XX+XX				
XX	24" X 8" TAPPING SLEEVE	XX+XX				
XX	8" TAPPING VALVE	XX+XX				

LINE TYPES

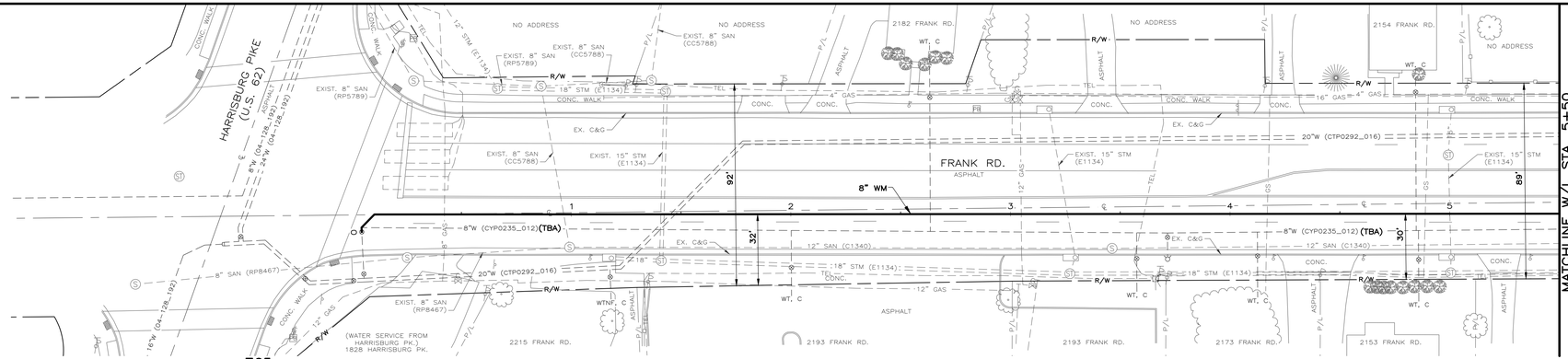
——℄——	CENTERLINE OF ROAD
——P/L——	EX. PROPERTY LINE
——R/W——	EX. RIGHT-OF-WAY
— — —GAS— — —	EX. GAS
— — — GS — — —	EX. GAS SERVICE
— — —SAN— — —	EX. SANITARY
— — —STM— — —	EX. STORM
— — —W— — —	EX. WATER
— — —UGE— — —	EX. UNDERGROUND ELECTRIC
— —ELE-OH— —	EX. ELECTRIC-OVERHEAD
— —ELE/TEL-OH— —	EX. ELEC/TEL-OVERHEAD
— — — TEL — — —	EX. TELEPHONE
— —TEL-OH— —	EX. TELEPHONE-OVERHEAD
— — —COM— — —	EX UNDERGROUND COMMUNICATION
— —COM-OH— —	EX. COMMUNICATION-OVERHEAD
— COM/TEL-OH —	EX. COMM/TEL-OVERHEAD
— — — —TRA— — — —	EX. TRAFFIC CONTROL
	EX. CURB
	EX. CURB & GUTTER
	EX. FENCE
	EX. SIDEWALK
	PROPOSED WATER MAIN
	PROPOSED WATER TAP

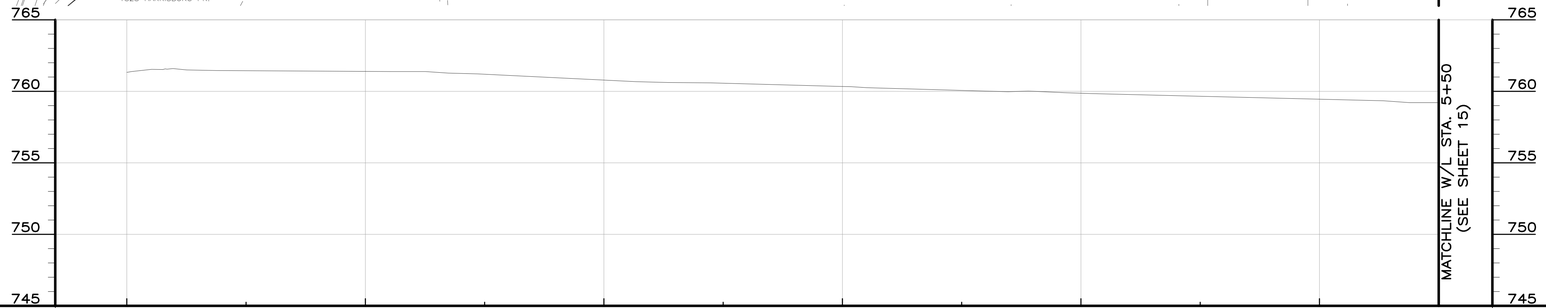
SYMBOLS

	BENCH MARK
	SURVEY MARKER
	EX. CONCRETE MONUMENT
	IRON PIN FOUND
	NAIL FOUND
	EX. SIGN
	EX. STREET LIGHT
	EX. ELEC. METER
	EX. ELEC. MANHOLE
	EX. ELEC. POLE
	EX. ELEC. & TELE. POLE
	EX. ELEC. TELE. & LIGHT POLE
	EX. TRAFFIC POLE
	EX. GAS METER
	EX. GAS VALVE
	EX. SANITARY MANHOLE
	EX. STORM MANHOLE
	EX. STORM CATCH BASIN
	EX. CURB & GUTTER INLET
	EX. FIRE HYDRANT
PRV	EX. PRESSURE RELEASE VALVE
	EX. WATER VALVE
	EX. CONIFER (PINE) TREE
	EX. DECIDUOUS TREE
	EX. SHRUB
	EX. PULL BOX
	PR. FIRE HYDRANT
	PR. WATER MAIN VALVE
	PR. WATER TAP VALVE

ABBREVIATIONS

(ATG)	ADJUST TO GRADE
C	COPPER
CI	CAST IRON
CTV	CABLE TELEVISION
DI	DUCTILE IRON
(DND)	DO NOT DISTURB
E/P	EDGE OF PAVEMENT
EX	EXISTING
FH	FIRE HYDRANT
G	GALVANIZED
GAS	GAS MAIN
GV	GAS SERVICE VALVE
(L)	LONG SERVICE LINE TRANSFER
LE	LEAD
OHC	OVERHEAD COMMUNICATIONS
OHCT	OVERHEAD COMM/TEL
OHE	OVERHEAD ELECTRIC
P	PLASTIC
PVMT	PAVEMENT
(R&R)	REMOVE AND REPLACE
(RTG)	ROTATE TO GRADE
(RTT)	RESTRAIN TO TEE
(S)	SHORT SERVICE LINE TRANSFER
SAN	SANITARY SEWER
STM	STORM SEWER
(TBA)	TO BE ABANDONED
(TBL)	TO BE LOWERED
(TBR)	TO BE REMOVED
(TBRL)	TO BE RELOCATED
UGE	UNDERGROUND ELECTRIC
UGL	UNDERGROUND LIGHTING
UGT	UNDERGROUND TELEPHONE
WM	WATER MAIN
WST	WATER SERVICE LINE TRANSFER
WT	WATER TAP
WTNF	WATER TAP NOT FOUND





WM STATION	0		1		2		3		4		5		WM STATION
GROUND	761.32	761.44	761.39	761.19	760.78	760.57	760.34	760.07	759.87	759.66	759.45	759.21	GROUND
C/L OF PIPE	756.43	756.48	756.52	756.45	756.32	756.20	756.07	755.95	755.85	755.78	755.71	755.64	C/L OF PIPE
CUT TO INVERT	4.90	4.97	4.87	4.75	4.46	4.37	4.27	4.12	4.01	3.87	3.74	3.57	CUT TO INVERT

NOTES:

1. * = MAINTAIN A MINIMUM OF 18 INCHES OF CLEARANCE BETWEEN OUTSIDE OF SEWER PIPE TO OUTSIDE OF WATER MAIN PIPE
2. ** = MAINTAIN A MINIMUM OF 12 INCHES OF CLEARANCE BETWEEN EXISTING AND PROPOSED WATER MAINS.
3. REFER TO SHEET XX FOR RESTORATION PLAN.

CITY OF COLUMBUS
DEPARTMENT OF PUBLIC UTILITIES
DIVISION OF WATER

PLAN AND PROFILE
FRANK ROAD

DIVISION OF WATER CONTRACT NO. 2128
CAPITAL IMPROVEMENT PROJECT NO. 690236-100104
EDSEL AVENUE AREA WATER LINE IMPROVEMENTS

SCALE
HORIZ. 1"=30'
VERT. 1"=5'

19-083

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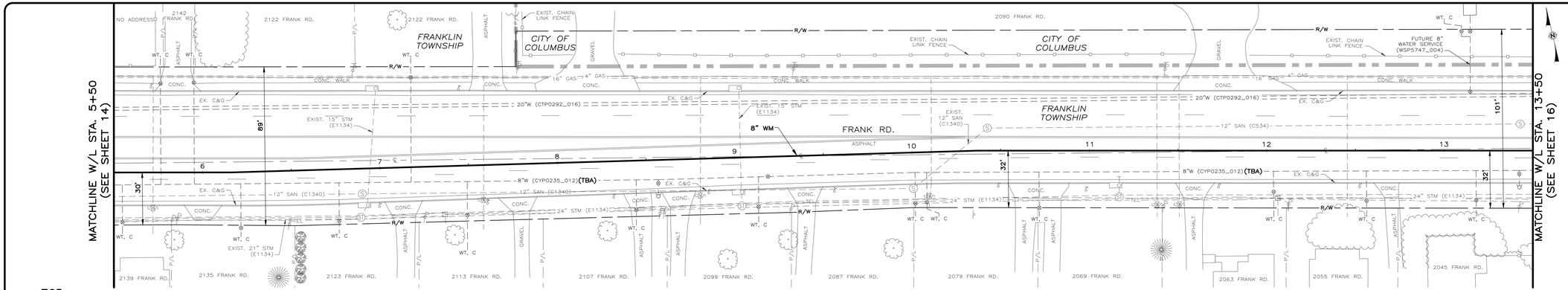

NOTES:

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2. ** = MAINTAIN A MINIMUM OF 12 INCHES OF CLEARANCE BETWEEN EXISTING AND PROPOSED WATER MAINS.
3. REFER TO SHEET XX FOR RESTORATION PLAN.

WM STATION	6			7			8			9			10			11			12			13			WM STATION
GROUND	759.21	759.03	758.83	758.68	758.52	758.38	758.13	758.03	757.94	757.79	757.51	757.31	757.09	756.70	756.31	755.90	755.32	GROUND
C/L OF PIPE	755.64	755.56	755.24	754.92	754.60	754.28	753.96	753.65	753.34	753.03	752.72	752.41	752.11	751.82	751.54	751.25	750.96	C/L OF PIPE
CUT TO INVERT	3.57	3.47	3.59	3.76	3.92	4.10	4.17	4.38	4.60	4.76	4.79	4.91	4.98	4.88	4.77	4.65	4.36	CUT TO INVERT

CITY OF COLUMBUS
DEPARTMENT OF PUBLIC UTILITIES
DIVISION OF WATER

PLAN AND PROFILE
FRANK ROAD

DIVISION OF WATER CONTRACT NO. 2128
CAPITAL IMPROVEMENT PROJECT NO. 690236-100104
EDSEL AVENUE AREA WATER LINE IMPROVEMENTS

SCALE
HORIZ. 1"=30'
VERT. 1"=5'

19-083

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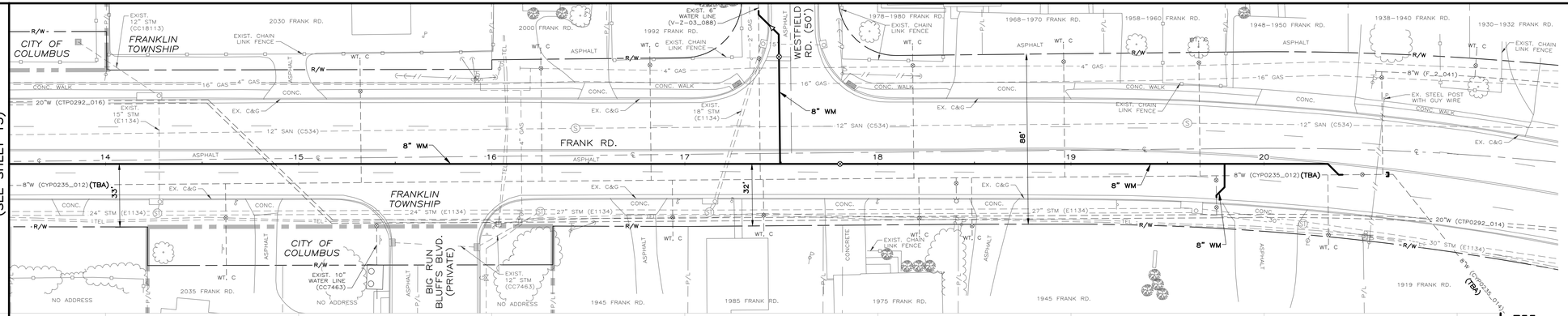

WM STATION	14		15		16		17		18		19		20	WM STATION
GROUND	755.32	754.60	754.03	753.44	752.90	752.21	751.53	750.90	750.47	749.77	749.12	748.44	747.97	747.41	GROUND
C/L OF PIPE	750.96	750.47	749.88	749.29	748.70	748.11	747.49	746.81	746.12	745.44	744.73	743.82	742.92	742.01	C/L OF PIPE
CUT TO INVERT	4.36	4.14	4.15	4.15	4.20	4.10	4.04	4.09	4.35	4.33	4.39	4.62	5.06	5.40	CUT TO INVERT

NOTES:

1. * = MAINTAIN A MINIMUM OF 18 INCHES OF CLEARANCE BETWEEN OUTSIDE OF SEWER PIPE TO OUTSIDE OF WATER MAIN PIPE
2. ** = MAINTAIN A MINIMUM OF 12 INCHES OF CLEARANCE BETWEEN EXISTING AND PROPOSED WATER MAINS.
3. REFER TO SHEET XX FOR RESTORATION PLAN.

CITY OF COLUMBUS
DEPARTMENT OF PUBLIC UTILITIES
DIVISION OF WATER

PLAN AND PROFILE
FRANK ROAD

DIVISION OF WATER CONTRACT NO. 2128
CAPITAL IMPROVEMENT PROJECT NO. 690236-100104
EDSEL AVENUE AREA WATER LINE IMPROVEMENTS

SCALE
HORIZ. 1"=30'
VERT. 1"=5'

19-083

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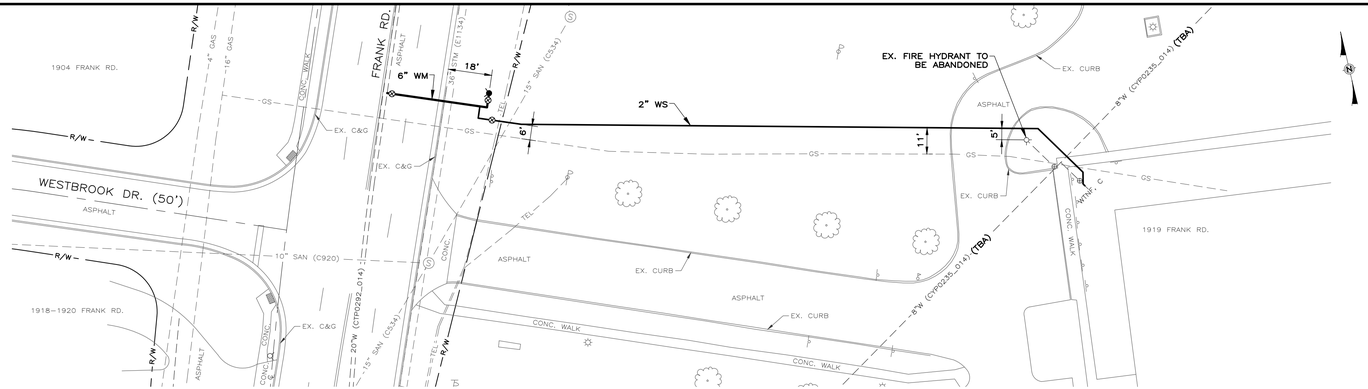

NOTES:

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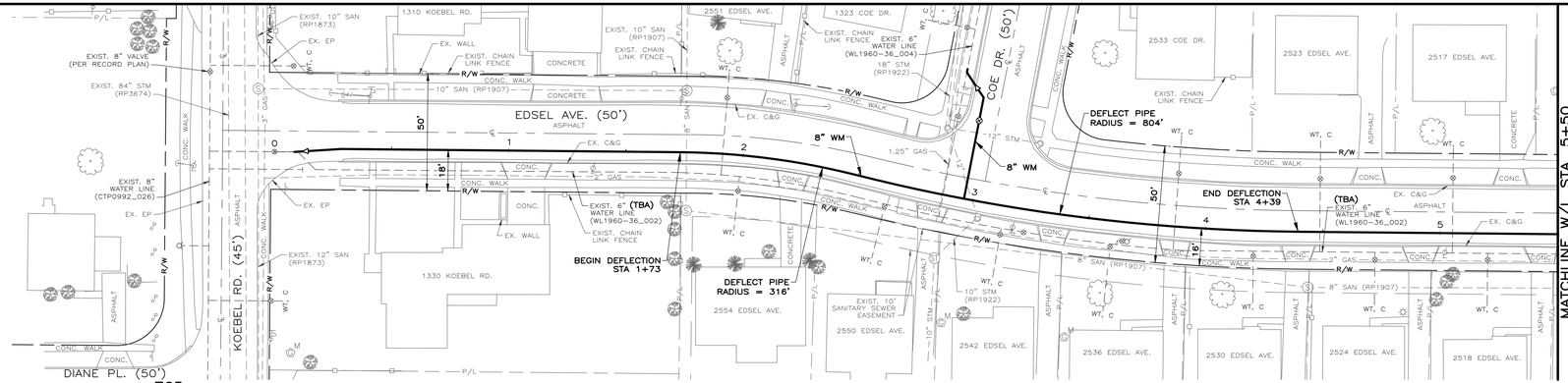
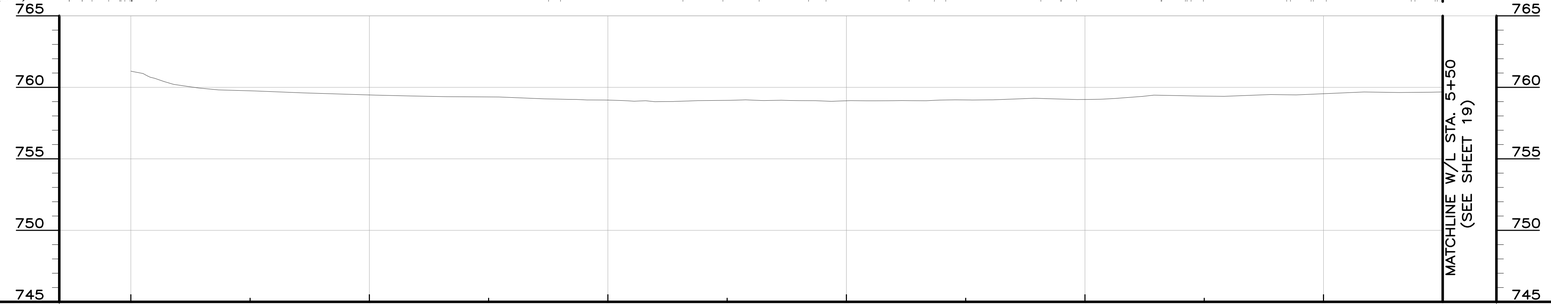
2. ** = MAINTAIN A MINIMUM OF 12 INCHES OF CLEARANCE BETWEEN EXISTING AND PROPOSED WATER MAINS.
3. REFER TO SHEET XX FOR RESTORATION PLAN.

		CITY OF COLUMBUS DEPARTMENT OF PUBLIC UTILITIES DIVISION OF WATER				PLAN AND PROFILE FRANK ROAD	DIVISION OF WATER CONTRACT NO. 2128 CAPITAL IMPROVEMENT PROJECT NO. 690236–100104 EDSEL AVENUE AREA WATER LINE IMPROVEMENTS	SCALE HORIZ. 1"=30' VERT. 1"=5'	19–083	17 / XX





WM STATION	0		1		2		3		4		5	WM STATION
GROUND	761.13	759.76	759.47	759.33	759.11	759.09	759.06	759.12	759.15	759.39	759.55	GROUND
C/L OF PIPE	755.71	755.61	755.52	755.47	755.42	755.37	755.32	755.27	755.45	755.75	756.05	C/L OF PIPE
CUT TO INVERT	5.42	4.15	3.95	3.86	3.69	3.72	3.74	3.85	3.70	3.64	3.50	CUT TO INVERT

NOTES:

1. * = MAINTAIN A MINIMUM OF 18 INCHES OF CLEARANCE BETWEEN OUTSIDE OF SEWER PIPE TO OUTSIDE OF WATER MAIN PIPE
2. ** = MAINTAIN A MINIMUM OF 12 INCHES OF CLEARANCE BETWEEN EXISTING AND PROPOSED WATER MAINS.
3. REFER TO SHEET XX FOR RESTORATION PLAN.

CITY OF COLUMBUS
DEPARTMENT OF PUBLIC UTILITIES
DIVISION OF WATER

PLAN AND PROFILE
EDSEL AVENUE

DIVISION OF WATER CONTRACT NO. 2128
CAPITAL IMPROVEMENT PROJECT NO. 690236-100104
EDSEL AVENUE AREA WATER LINE IMPROVEMENTS

SCALE
HORIZ. 1"=30'
VERT. 1"=5'

19-083

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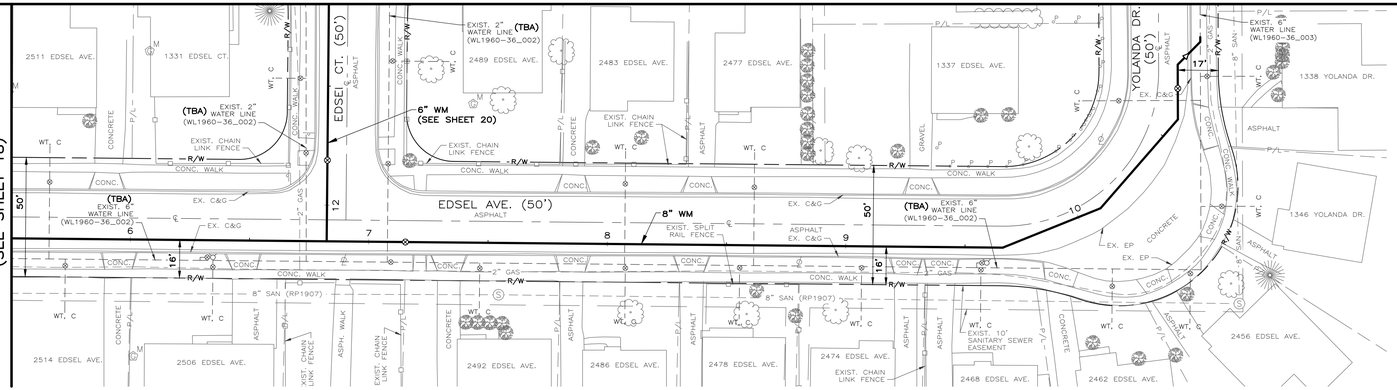
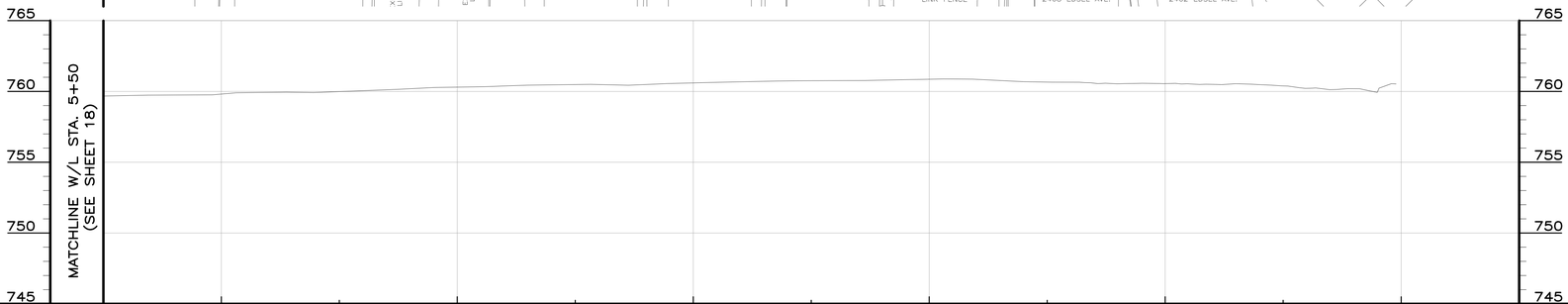




WM STATION	6		7		8		9		10		11	WM STATION
GROUND	759.81	759.99	760.30	760.49	760.60	760.75	760.86	760.66	760.55	760.39		GROUND
C/L OF PIPE	756.51	756.54	756.58	756.61	756.65	756.68	756.72	756.75	756.79	756.65		C/L OF PIPE
CUT TO INVERT	3.31	3.45	3.73	3.88	3.96	4.07	4.14	3.91	3.76	3.74		CUT TO INVERT

NOTES:

1. * = MAINTAIN A MINIMUM OF 18 INCHES OF CLEARANCE BETWEEN OUTSIDE OF SEWER PIPE TO OUTSIDE OF WATER MAIN PIPE
2. ** = MAINTAIN A MINIMUM OF 12 INCHES OF CLEARANCE BETWEEN EXISTING AND PROPOSED WATER MAINS.
3. REFER TO SHEET XX FOR RESTORATION PLAN.

CITY OF COLUMBUS
DEPARTMENT OF PUBLIC UTILITIES
DIVISION OF WATER

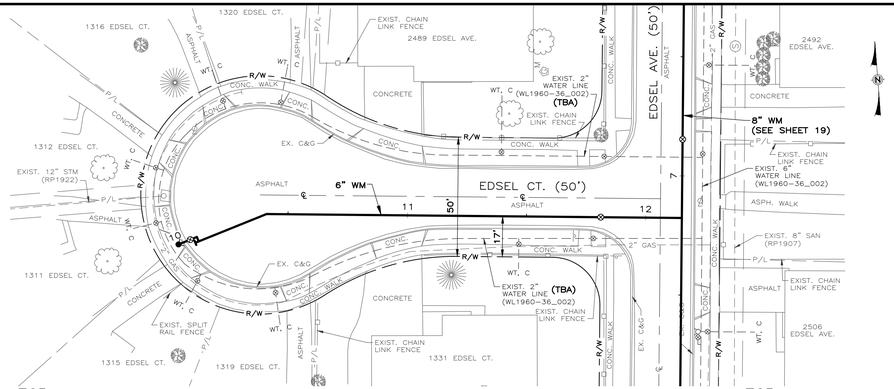
PLAN AND PROFILE
EDSEL AVENUE

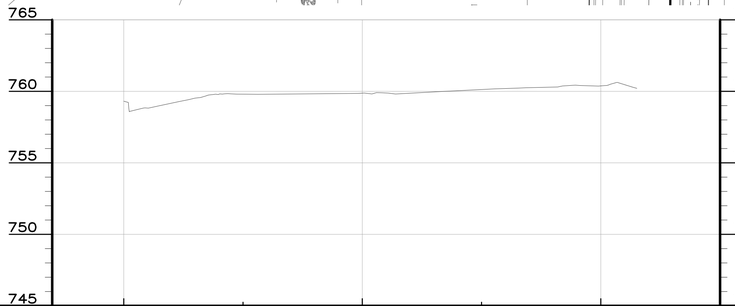
DIVISION OF WATER CONTRACT NO. 2128
CAPITAL IMPROVEMENT PROJECT NO. 690236-100104
EDSEL AVENUE AREA WATER LINE IMPROVEMENTS

SCALE
HORIZ. 1"=30'
VERT. 1"=5'

19-083

19
XX





WM STATION	10		11		12	WM STATION
GROUND	759.31	759.80	759.87	760.13	760.38	GROUND
C/L OF PIPE	755.45	755.70	755.94	756.01	755.87	C/L OF PIPE
CUT TO INVERT	3.86	4.10	3.93	4.12	4.51	CUT TO INVERT

NOTES:

1. * = MAINTAIN A MINIMUM OF 18 INCHES OF CLEARANCE BETWEEN OUTSIDE OF SEWER PIPE TO OUTSIDE OF WATER MAIN PIPE
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3. REFER TO SHEET XX FOR RESTORATION PLAN.

CITY OF COLUMBUS
DEPARTMENT OF PUBLIC UTILITIES
DIVISION OF WATER

PLAN AND PROFILE
EDSEL COURT

DIVISION OF WATER CONTRACT NO. 2128
CAPITAL IMPROVEMENT PROJECT NO. 690236-100104
EDSEL AVENUE AREA WATER LINE IMPROVEMENTS

SCALE
HORIZ. 1"=30'
VERT. 1"=5'

19-083

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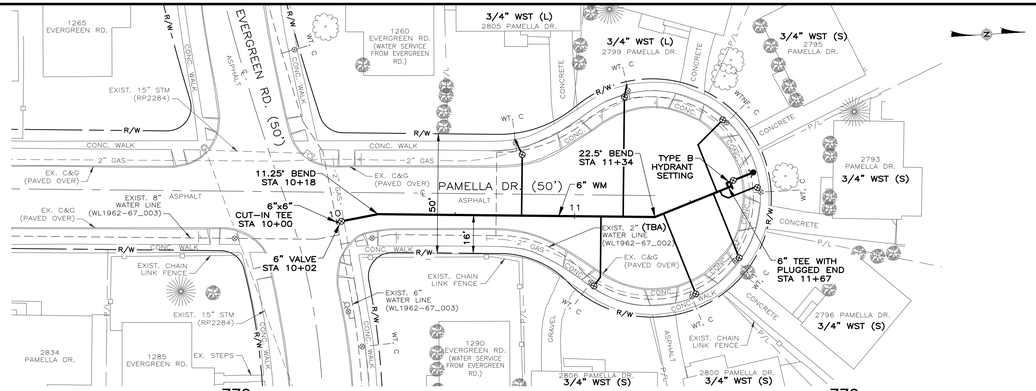

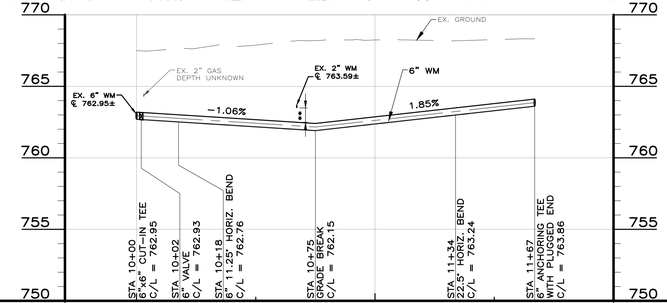

WM STATION	10		11		WM STATION
GROUND	767.49	767.88	768.24	768.26	GROUND
C/L OF PIPE	762.95	762.42	762.62	763.54	C/L OF PIPE
CUT TO INVERT	4.79	5.71	5.87	4.97	CUT TO INVERT

NOTES:

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2. ** = MAINTAIN A MINIMUM OF 12 INCHES OF CLEARANCE BETWEEN EXISTING AND PROPOSED WATER MAINS.
3. REFER TO SHEET 38 FOR RESTORATION PLAN.

CITY OF COLUMBUS
DEPARTMENT OF PUBLIC UTILITIES
DIVISION OF WATER

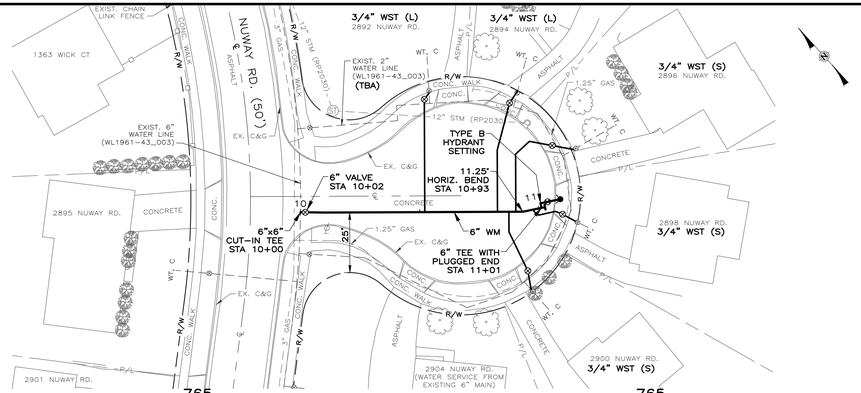
PLAN AND PROFILE
PAMELLA DRIVE

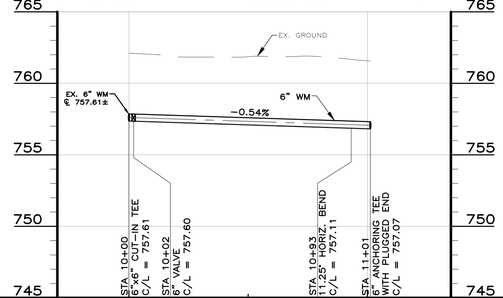
DIVISION OF WATER CONTRACT NO. 2128
CAPITAL IMPROVEMENT PROJECT NO. 690236-100104
EDSEL AVENUE AREA WATER LINE IMPROVEMENTS

SCALE
HORIZ. 1"=30'
VERT. 1"=5'

19-083

21
XX





WM STATION	10		11	WM STATION
GROUND	762.11	761.86	761.57	GROUND
C/L OF PIPE		757.34	757.07	C/L OF PIPE
CUT TO INVERT	4.75	4.77	4.75	CUT TO INVERT

NOTES:

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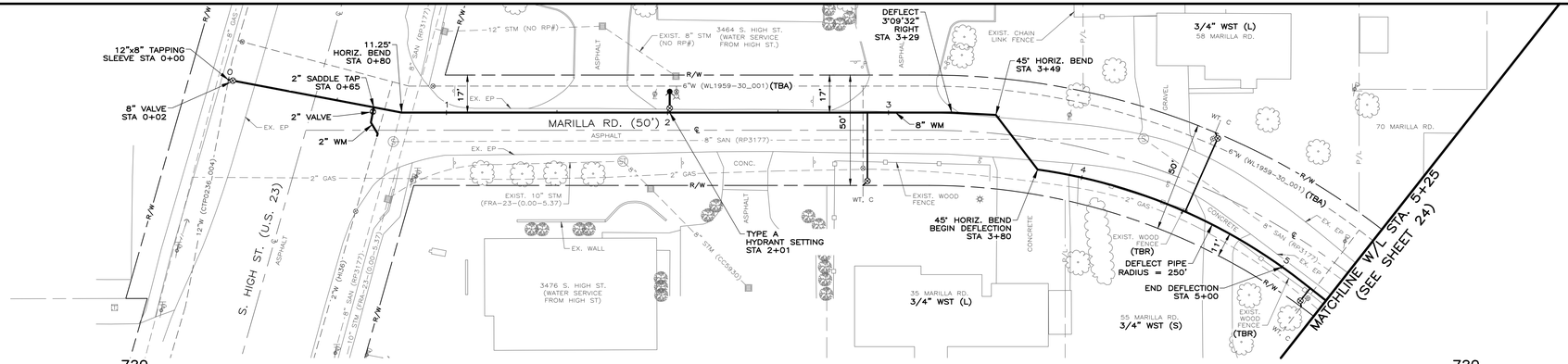
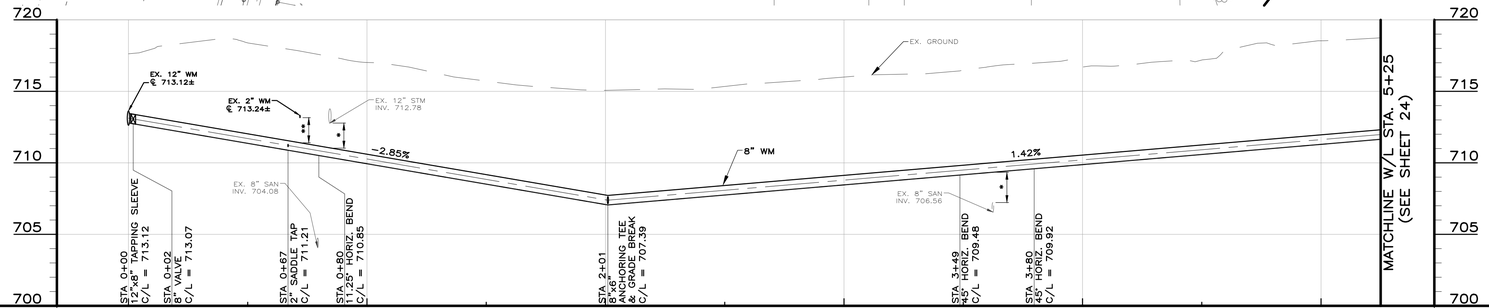
3. REFER TO SHEET 38 FOR RESTORATION PLAN.

		CITY OF COLUMBUS DEPARTMENT OF PUBLIC UTILITIES DIVISION OF WATER		PLAN AND PROFILE NUWAY ROAD	DIVISION OF WATER CONTRACT NO. 2128 CAPITAL IMPROVEMENT PROJECT NO. 690236-100104 EDSEL AVENUE AREA WATER LINE IMPROVEMENTS	SCALE HORIZ. 1"=30' VERT. 1"=5'	19-083	22 / XX





WM STATION	0		1		2		3		4		5	WM STATION
GROUND	717.62	718.39	717.02	715.72	715.07	715.34	716.00	716.49	716.70	717.19	718.54	GROUND
C/L OF PIPE	713.12	711.70	710.27	708.84	707.42	708.08	708.79	709.50	710.21	710.92	711.62	C/L OF PIPE
CUT TO INVERT		7.02	7.08	7.21	7.99	7.59	7.54	7.33	6.83	6.61	7.25	CUT TO INVERT

NOTES:

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3. REFER TO SHEET 39 FOR RESTORATION PLAN.

CITY OF COLUMBUS
DEPARTMENT OF PUBLIC UTILITIES
DIVISION OF WATER

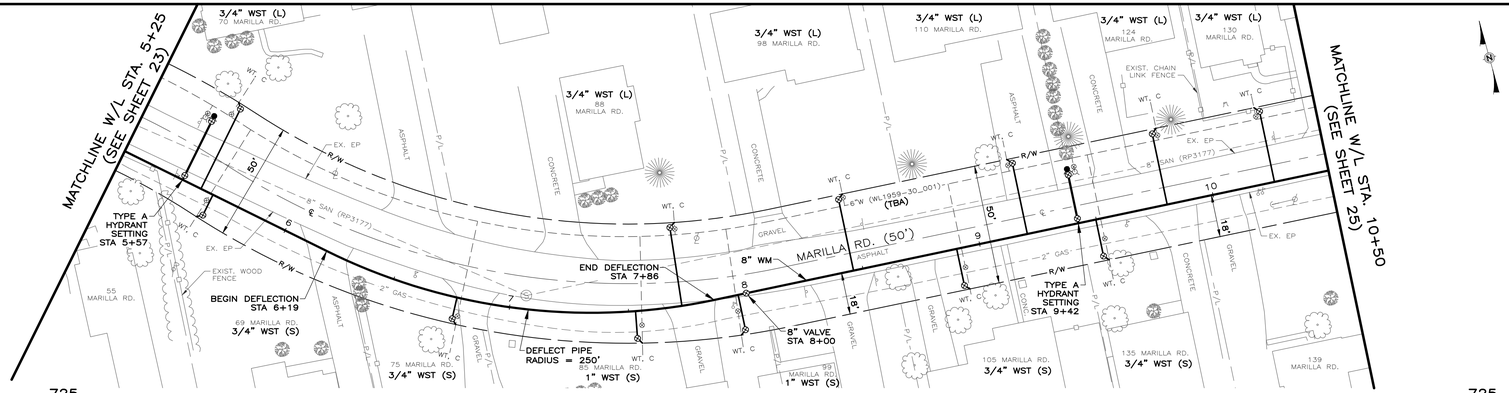
PLAN AND PROFILE
MARILLA ROAD

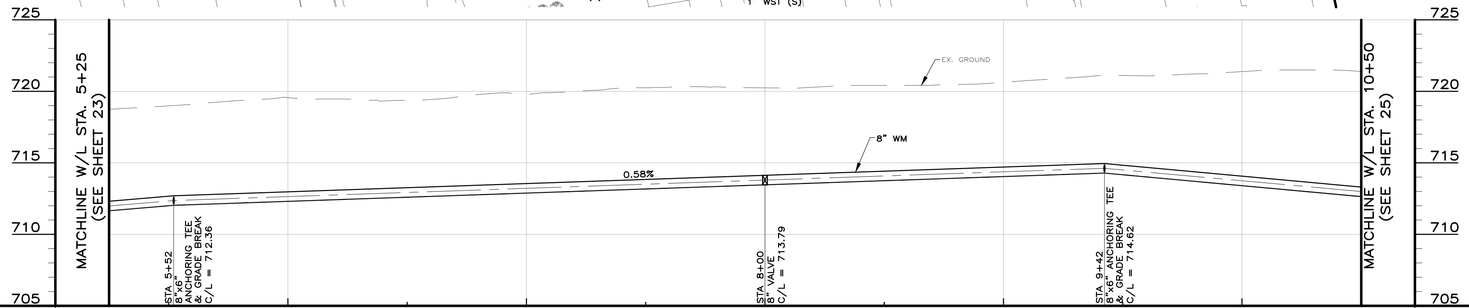
DIVISION OF WATER CONTRACT NO. 2128
CAPITAL IMPROVEMENT PROJECT NO. 690236-100104
EDSEL AVENUE AREA WATER LINE IMPROVEMENTS

SCALE
HORIZ. 1"=30'
VERT. 1"=5'

19-083

23
XX





WM STATION		6		7		8		9		10	WM STATION
GROUND	718.98	719.56	719.37	719.77	720.25	720.24	720.41	720.63	721.11	721.38	GROUND
C/L OF PIPE	712.33	712.64	712.93	713.22	713.51	713.79	714.08	714.37	714.50	713.75	C/L OF PIPE
CUT TO INVERT	6.98	7.25	6.78	6.89	7.07	6.78	6.66	6.59	6.94	7.97	CUT TO INVERT

NOTES:

1. * = MAINTAIN A MINIMUM OF 18 INCHES OF CLEARANCE BETWEEN OUTSIDE OF SEWER PIPE TO OUTSIDE OF WATER MAIN PIPE
2. ** = MAINTAIN A MINIMUM OF 12 INCHES OF CLEARANCE BETWEEN EXISTING AND PROPOSED WATER MAINS.
3. REFER TO SHEET 39 FOR RESTORATION PLAN.

CITY OF COLUMBUS
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DIVISION OF WATER

PLAN AND PROFILE
MARILLA ROAD

DIVISION OF WATER CONTRACT NO. 2128
CAPITAL IMPROVEMENT PROJECT NO. 690236-100104
EDSEL AVENUE AREA WATER LINE IMPROVEMENTS

SCALE
HORIZ. 1"=30'
VERT. 1"=5'

19-083

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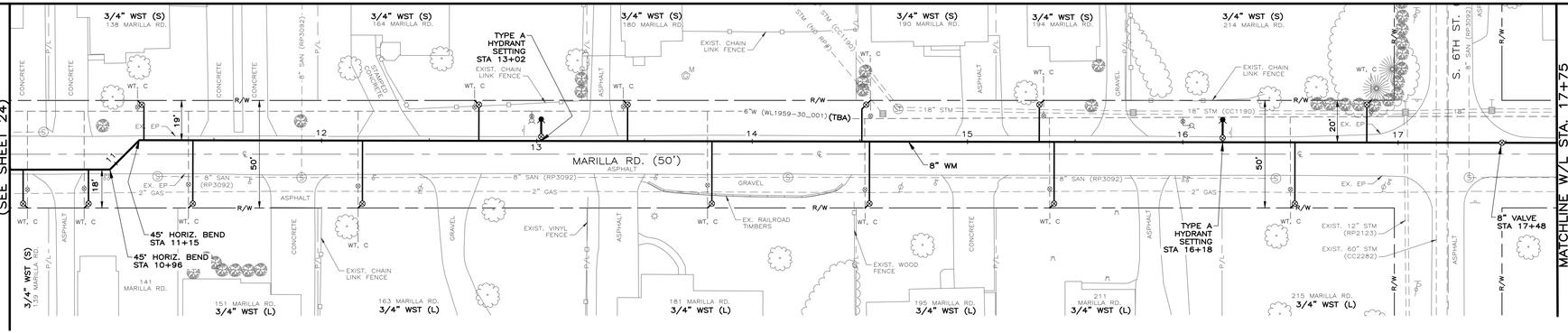
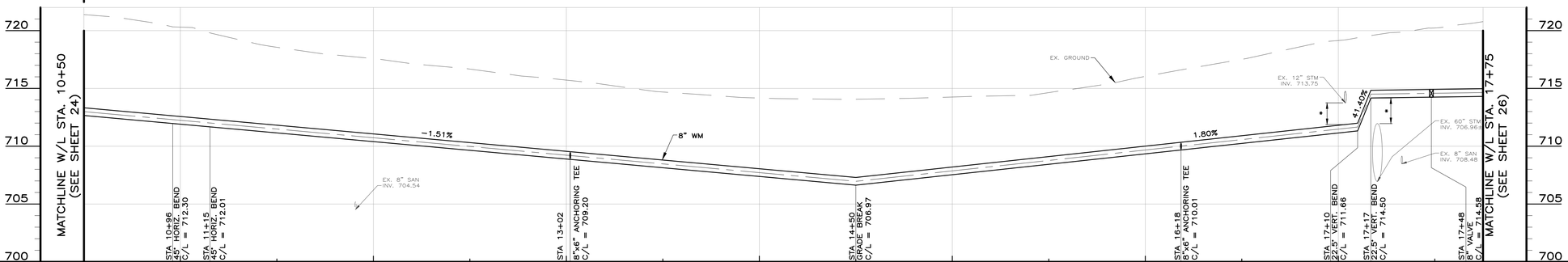


NOTES:

1. * = MAINTAIN A MINIMUM OF 18 INCHES OF CLEARANCE BETWEEN OUTSIDE OF SEWER PIPE TO OUTSIDE OF WATER MAIN PIPE
2. ** = MAINTAIN A MINIMUM OF 12 INCHES OF CLEARANCE BETWEEN EXISTING AND PROPOSED WATER MAINS.
3. REFER TO SHEET 40 FOR RESTORATION PLAN.



WM STATION	11		12		13		14		15		16		17		WM STATION
GROUND	720.30	718.56	717.58	716.67	715.72	714.69	714.17	714.06	714.26	714.64	716.04	717.52	719.14	720.22	GROUND
C/L OF PIPE	712.24	711.49	710.73	709.98	709.23	708.47	707.72	706.97	707.87	708.77	709.67	710.58	711.48	714.58	C/L OF PIPE
CUT TO INVERT	8.39	7.40	7.18	7.03	6.82	6.55	6.78	7.43	6.72	6.20	6.70	7.27	8.00	5.98	CUT TO INVERT

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PLAN AND PROFILE
MARILLA ROAD

DIVISION OF WATER CONTRACT NO. 2128
CAPITAL IMPROVEMENT PROJECT NO. 690236-100104
EDSEL AVENUE AREA WATER LINE IMPROVEMENTS

SCALE
HORIZ. 1"=30'
VERT. 1"=5'

19-083

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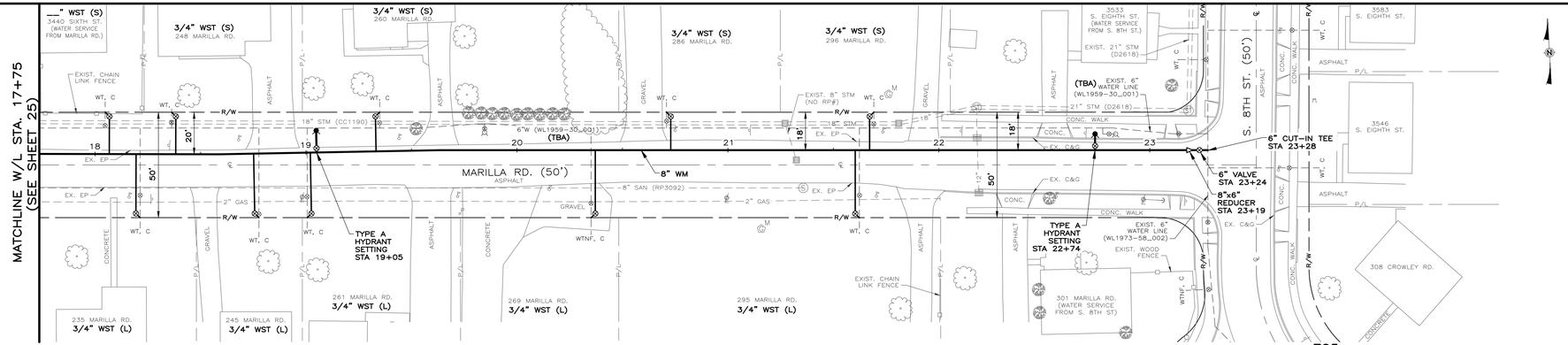
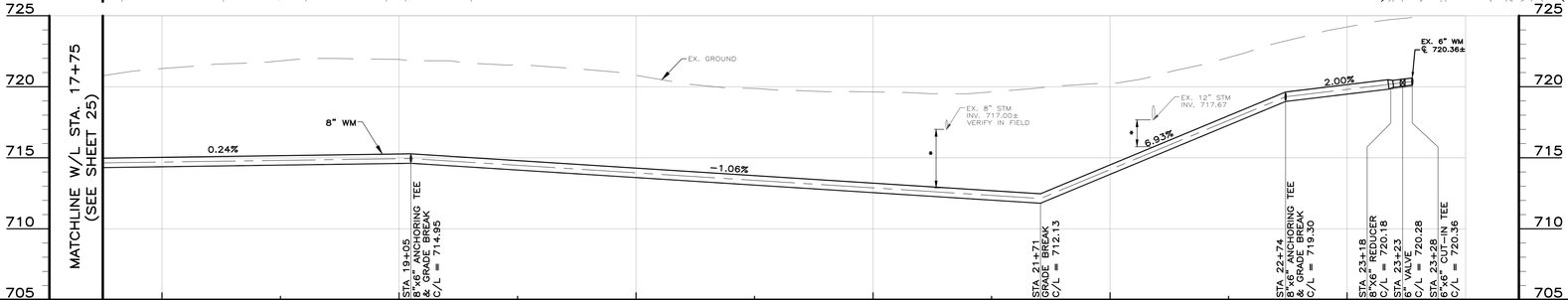
XX





WM STATION	18		19		20		21		22		23	WM STATION
GROUND	721.28	721.82	721.92	721.53	720.80	719.88	719.63	719.64	720.26	722.06	724.20	GROUND
C/L OF PIPE	714.70	714.82	714.94	714.47	713.94	713.41	712.88	712.35	714.17	717.63	719.81	C/L OF PIPE
CUT TO INVERT	6.91	7.34	7.32	7.40	7.19	6.80	7.08	7.62	6.42	4.77	4.72	CUT TO INVERT

NOTES:

1. * = MAINTAIN A MINIMUM OF 18 INCHES OF CLEARANCE BETWEEN OUTSIDE OF SEWER PIPE TO OUTSIDE OF WATER MAIN PIPE
2. ** = MAINTAIN A MINIMUM OF 12 INCHES OF CLEARANCE BETWEEN EXISTING AND PROPOSED WATER MAINS.
3. REFER TO SHEET 40 FOR RESTORATION PLAN.

CITY OF COLUMBUS
DEPARTMENT OF PUBLIC UTILITIES
DIVISION OF WATER

PLAN AND PROFILE
MARILLA ROAD

DIVISION OF WATER CONTRACT NO. 2128
CAPITAL IMPROVEMENT PROJECT NO. 690236-100104
EDSEL AVENUE AREA WATER LINE IMPROVEMENTS

SCALE
HORIZ. 1"=30'
VERT. 1"=5'

19-083

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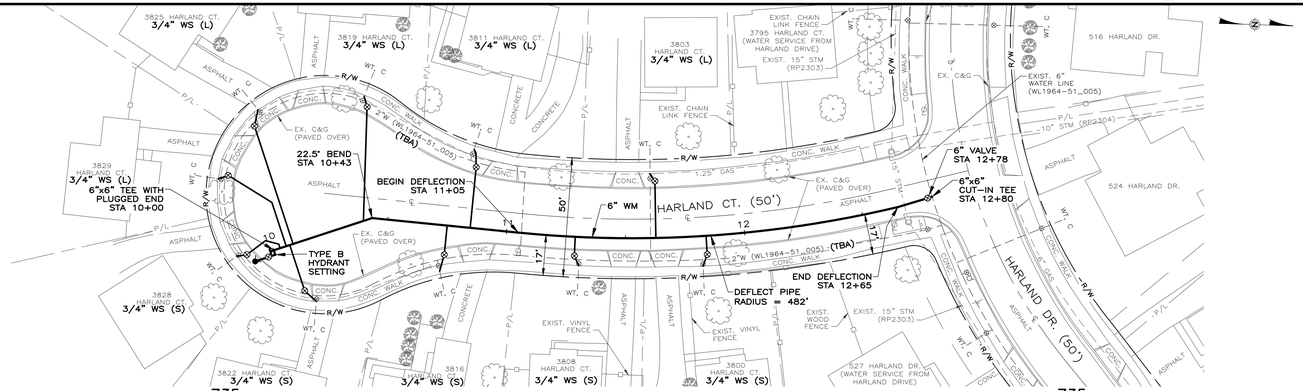
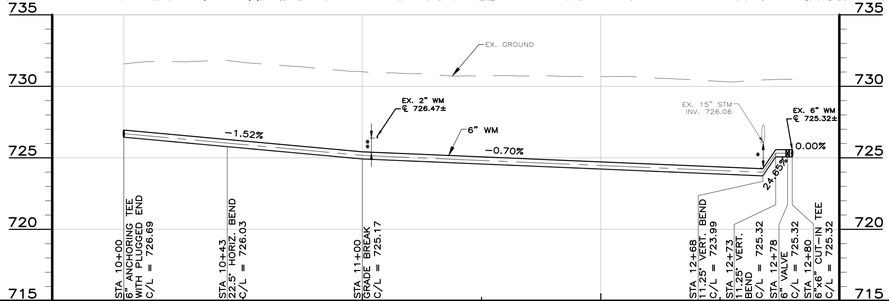
XX





WM STATION	10		11		12		WM STATION
GROUND	731.57	731.67	731.02	730.73	730.68	730.34	GROUND
C/L OF PIPE	726.69	725.93	725.17	724.82	724.46	724.11	C/L OF PIPE
CUT TO INVERT	5.13	5.99	6.10	6.16	6.46	6.48	CUT TO INVERT

NOTES:

1. * = MAINTAIN A MINIMUM OF 18 INCHES OF CLEARANCE BETWEEN OUTSIDE OF SEWER PIPE TO OUTSIDE OF WATER MAIN PIPE
2. ** = MAINTAIN A MINIMUM OF 12 INCHES OF CLEARANCE BETWEEN EXISTING AND PROPOSED WATER MAINS.
3. REFER TO SHEET 38 FOR RESTORATION PLAN.

CITY OF COLUMBUS
DEPARTMENT OF PUBLIC UTILITIES
DIVISION OF WATER

PLAN AND PROFILE
HARLAND COURT

DIVISION OF WATER CONTRACT NO. 2128
CAPITAL IMPROVEMENT PROJECT NO. 690236-100104
EDSEL AVENUE AREA WATER LINE IMPROVEMENTS

SCALE
HORIZ. 1"=30'
VERT. 1"=5'

19-083

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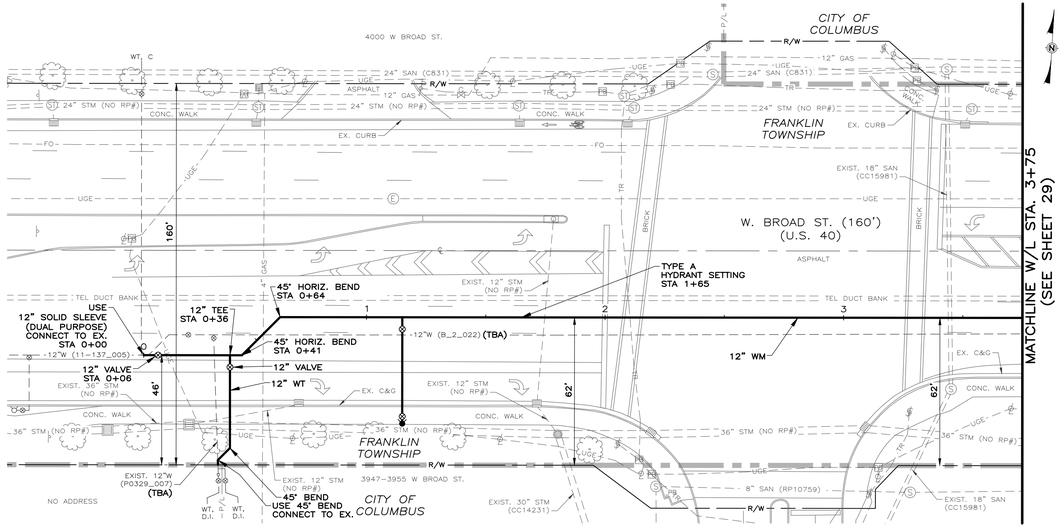
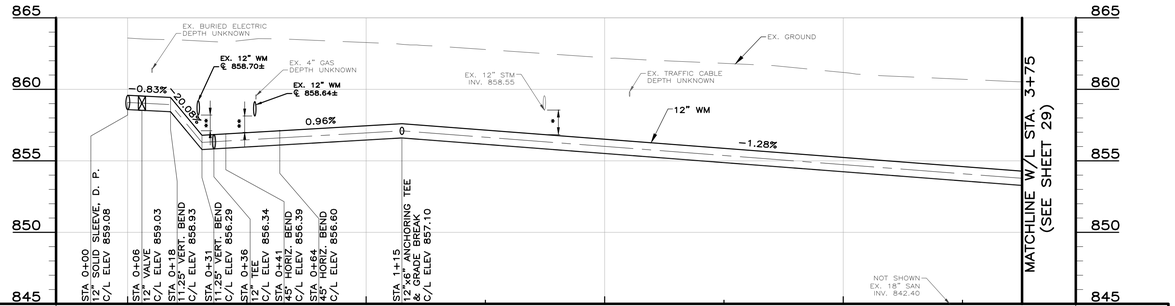
XX



NOTES:

1. * = MAINTAIN A MINIMUM OF 18 INCHES OF CLEARANCE BETWEEN OUTSIDE OF SEWER PIPE TO OUTSIDE OF WATER MAIN PIPE
2. ** = MAINTAIN A MINIMUM OF 12 INCHES OF CLEARANCE BETWEEN EXISTING AND PROPOSED WATER MAINS.
3. REFER TO SHEET 41 FOR RESTORATION PLAN.



WM STATION	0		1		2		3			WM STATION
GROUND	863.59	863.46	863.27	862.78	862.21	861.82	861.18	860.70	860.53	GROUND
C/L OF PIPE	859.08	856.47	856.95	856.65	856.01	855.37	854.74	854.10	853.78	C/L OF PIPE
CUT TO INVERT	5.01	7.49	6.82	6.63	6.70	6.94	6.94	7.11	7.25	CUT TO INVERT

CITY OF COLUMBUS
DEPARTMENT OF PUBLIC UTILITIES
DIVISION OF WATER

PLAN AND PROFILE
WEST BROAD STREET

DIVISION OF WATER CONTRACT NO. 2128
CAPITAL IMPROVEMENT PROJECT NO. 690236-100104
EDSEL AVENUE AREA WATER LINE IMPROVEMENTS

SCALE
HORIZ. 1"=30'
VERT. 1"=5'

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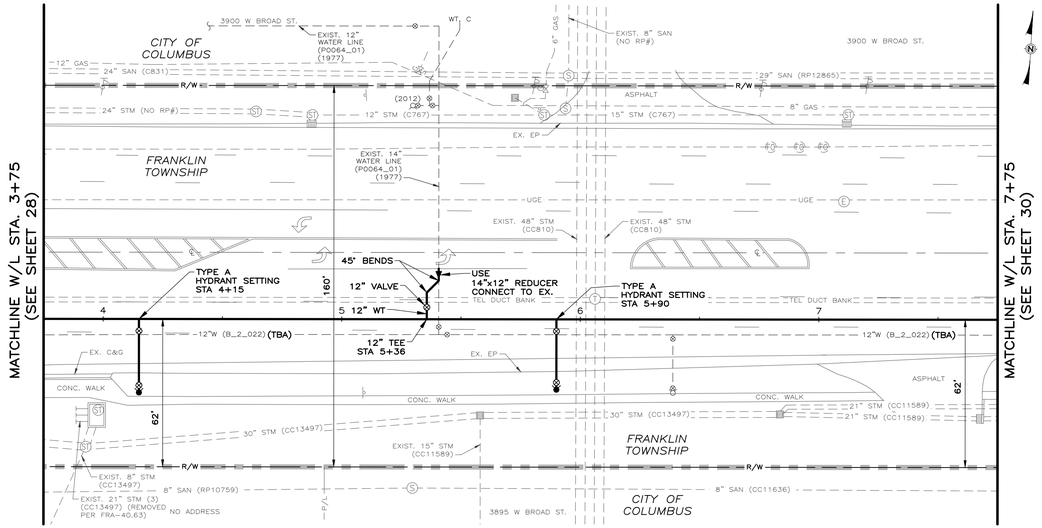
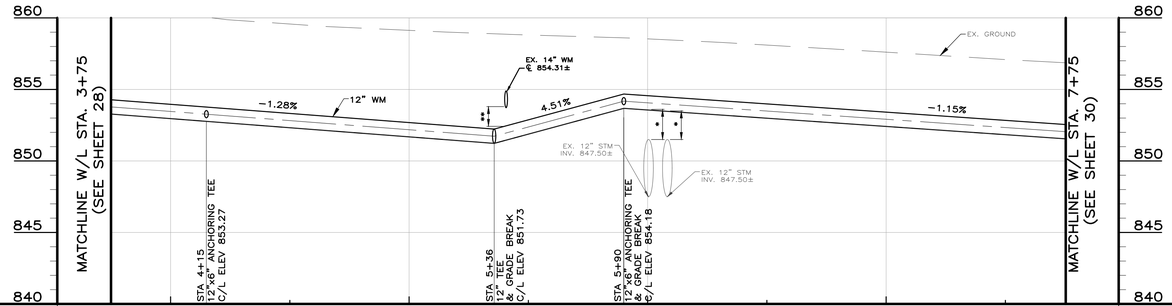


NOTES:

1. * = MAINTAIN A MINIMUM OF 18 INCHES OF CLEARANCE BETWEEN OUTSIDE OF SEWER PIPE TO OUTSIDE OF WATER MAIN PIPE
2. ** = MAINTAIN A MINIMUM OF 12 INCHES OF CLEARANCE BETWEEN EXISTING AND PROPOSED WATER MAINS.
3. REFER TO SHEET 41 FOR RESTORATION PLAN.



WM STATION	4		5		6		7			WM STATION
GROUND	860.29	859.57	859.13	858.80	858.54	858.10	857.61	857.09	856.86	GROUND
C/L OF PIPE	853.46	852.82	852.18	852.37	854.06	853.49	852.91	852.34	852.05	C/L OF PIPE
CUT TO INVERT	7.33	7.25	7.45	6.93	4.97	5.11	5.20	5.25	5.32	CUT TO INVERT

CITY OF COLUMBUS
DEPARTMENT OF PUBLIC UTILITIES
DIVISION OF WATER

PLAN AND PROFILE
WEST BROAD STREET

DIVISION OF WATER CONTRACT NO. 2128
CAPITAL IMPROVEMENT PROJECT NO. 690236-100104
EDSEL AVENUE AREA WATER LINE IMPROVEMENTS

SCALE
HORIZ. 1"=30'
VERT. 1"=5'

19-083

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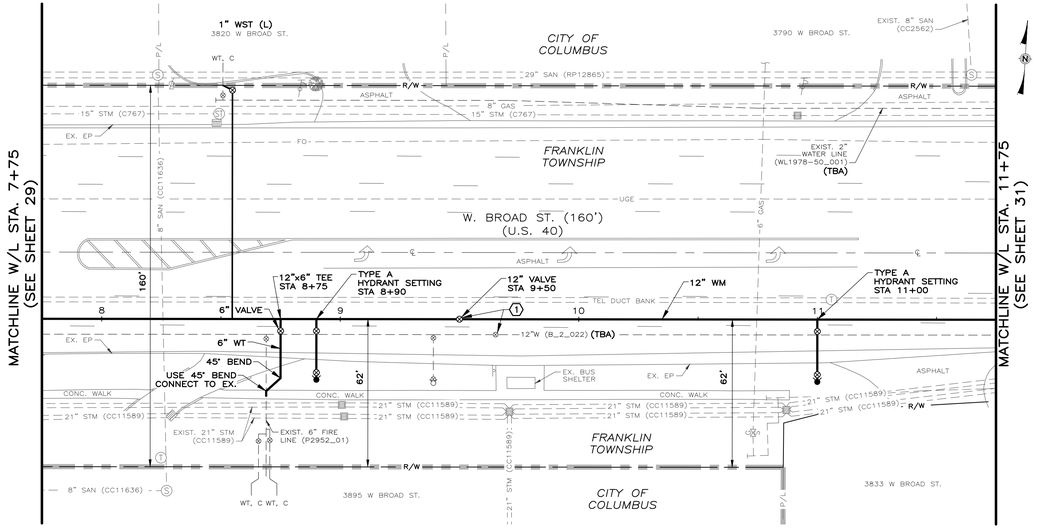
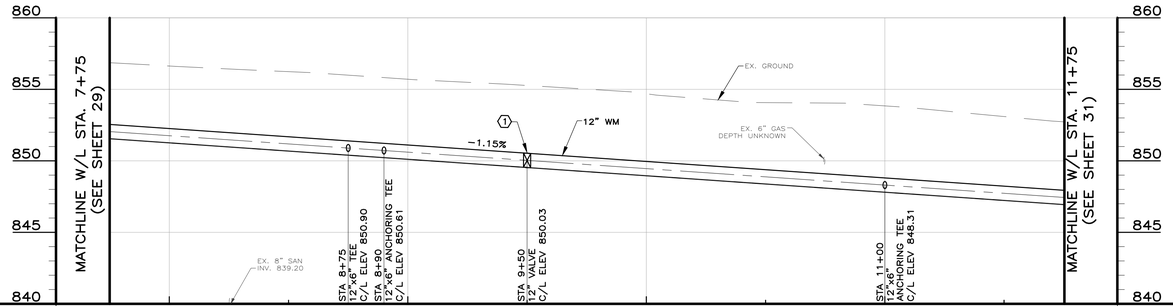
XX





WM STATION	8		9		10		11			WM STATION
GROUND	856.63	856.24	855.71	855.27	854.69	854.07	853.84	853.10	852.73	GROUND
C/L OF PIPE	851.76	851.18	850.61	850.03	849.46	848.88	848.31	847.73	847.44	C/L OF PIPE
CUT TO INVERT	5.37	5.55	5.60	5.74	5.73	5.69	6.04	5.87	5.79	CUT TO INVERT

NOTES:

1. * = MAINTAIN A MINIMUM OF 18 INCHES OF CLEARANCE BETWEEN OUTSIDE OF SEWER PIPE TO OUTSIDE OF WATER MAIN PIPE
2. ** = MAINTAIN A MINIMUM OF 12 INCHES OF CLEARANCE BETWEEN EXISTING AND PROPOSED WATER MAINS.
3. REFER TO SHEET 41–42 FOR RESTORATION PLAN.

CODED NOTES:

(1) THIS IS A PRESSURE BOUNDARY VALVE (MOUND DISTRICT TO THE EAST, FISHER DISTRICT TO THE WEST) AND NEEDS TO REMAIN CLOSED.

CITY OF COLUMBUS
DEPARTMENT OF PUBLIC UTILITIES
DIVISION OF WATER

PLAN AND PROFILE
WEST BROAD STREET

DIVISION OF WATER CONTRACT NO. 2128
CAPITAL IMPROVEMENT PROJECT NO. 690236–100104
EDSEL AVENUE AREA WATER LINE IMPROVEMENTS

SCALE
HORIZ. 1"=30'
VERT. 1"=5'

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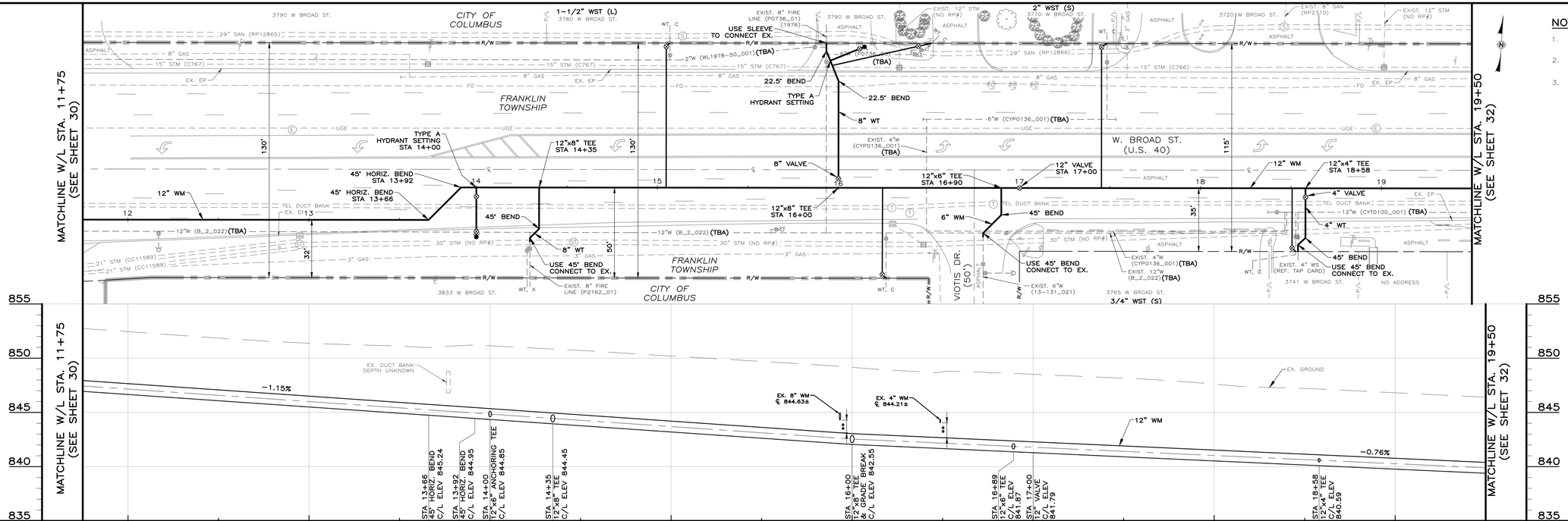

WM STATION	12		13		14		15		16		17		18		19		WM STATION
GROUND	852.45	851.85	851.39	851.11	851.15	850.71	850.20	849.70	849.16	848.75	848.52	848.15	847.62	847.22	846.81	846.40	GROUND
C/L OF PIPE	847.15	846.58	846.00	845.43	844.85	844.27	843.70	843.12	842.55	842.17	841.79	841.41	841.03	840.65	840.27	839.89	C/L OF PIPE
CUT TO INVERT	5.80	5.77	5.88	6.18	6.80	6.94	7.00	7.08	7.11	7.08	7.23	7.24	7.09	7.07	7.04	7.01	CUT TO INVERT

NOTES:

1. * = MAINTAIN A MINIMUM OF 18 INCHES OF CLEARANCE BETWEEN OUTSIDE OF SEWER PIPE TO OUTSIDE OF WATER MAIN PIPE
2. ** = MAINTAIN A MINIMUM OF 12 INCHES OF CLEARANCE BETWEEN EXISTING AND PROPOSED WATER MAINS.
3. REFER TO SHEET 42 FOR RESTORATION PLAN.

CITY OF COLUMBUS
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DIVISION OF WATER

PLAN AND PROFILE
WEST BROAD STREET

DIVISION OF WATER CONTRACT NO. 2128
CAPITAL IMPROVEMENT PROJECT NO. 690236-100104
EDSEL AVENUE AREA WATER LINE IMPROVEMENTS

SCALE
HORIZ. 1"=30'
VERT. 1"=5'

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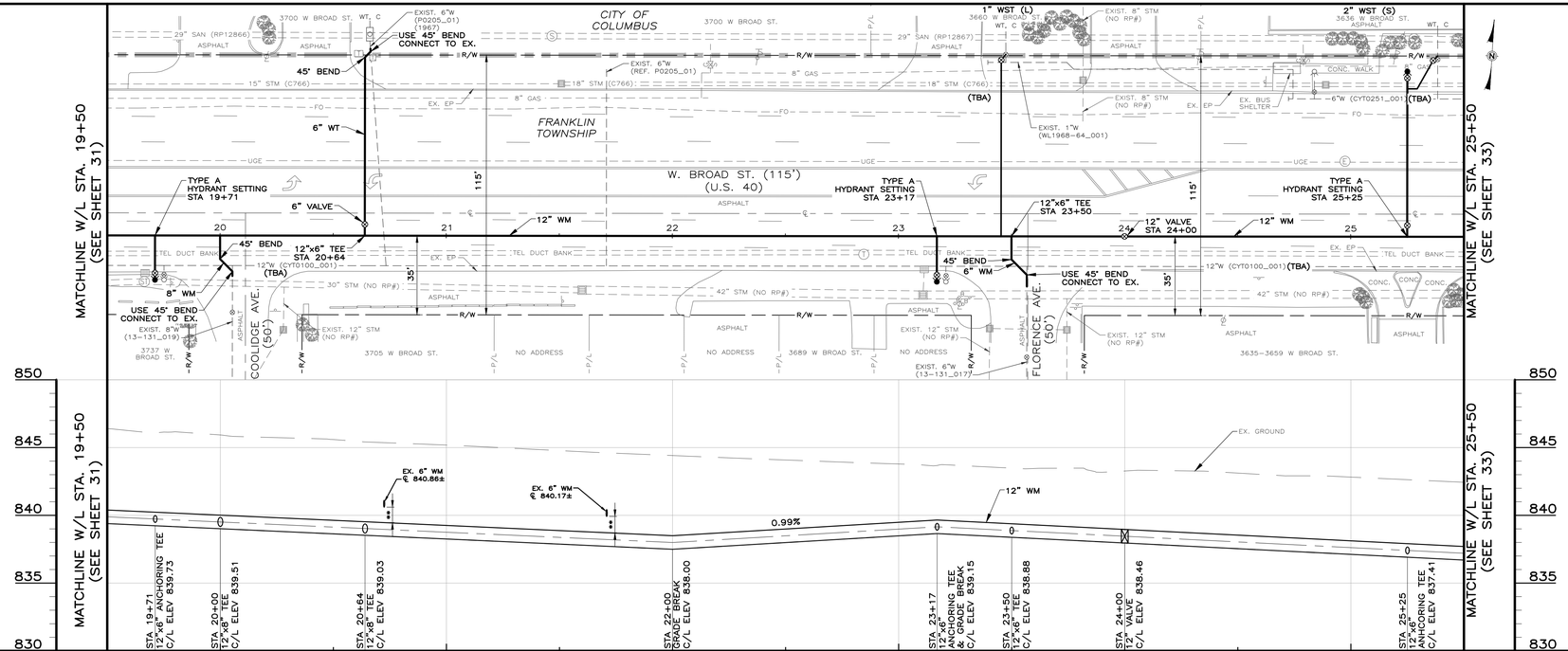

WM STATION	20		21		22		23		24		25		WM STATION
GROUND	845.93	845.60	845.19	844.78	844.41	844.08	843.79	843.49	843.27	843.12	842.82	842.44	GROUND
C/L OF PIPE	839.51	839.13	838.75	838.38	838.00	838.49	838.99	838.88	838.46	838.04	837.62	837.20	C/L OF PIPE
CUT TO INVERT	6.92	6.96	6.93	6.90	6.92	6.09	5.30	5.11	5.31	5.58	5.70	5.74	CUT TO INVERT

NOTES:

1. * = MAINTAIN A MINIMUM OF 18 INCHES OF CLEARANCE BETWEEN OUTSIDE OF SEWER PIPE TO OUTSIDE OF WATER MAIN PIPE
2. ** = MAINTAIN A MINIMUM OF 12 INCHES OF CLEARANCE BETWEEN EXISTING AND PROPOSED WATER MAINS.
3. REFER TO SHEET 43 FOR RESTORATION PLAN.

CITY OF COLUMBUS
DEPARTMENT OF PUBLIC UTILITIES
DIVISION OF WATER

PLAN AND PROFILE
WEST BROAD STREET

DIVISION OF WATER CONTRACT NO. 2128
CAPITAL IMPROVEMENT PROJECT NO. 690236-100104
EDSEL AVENUE AREA WATER LINE IMPROVEMENTS

SCALE
HORIZ. 1"=30'
VERT. 1"=5'

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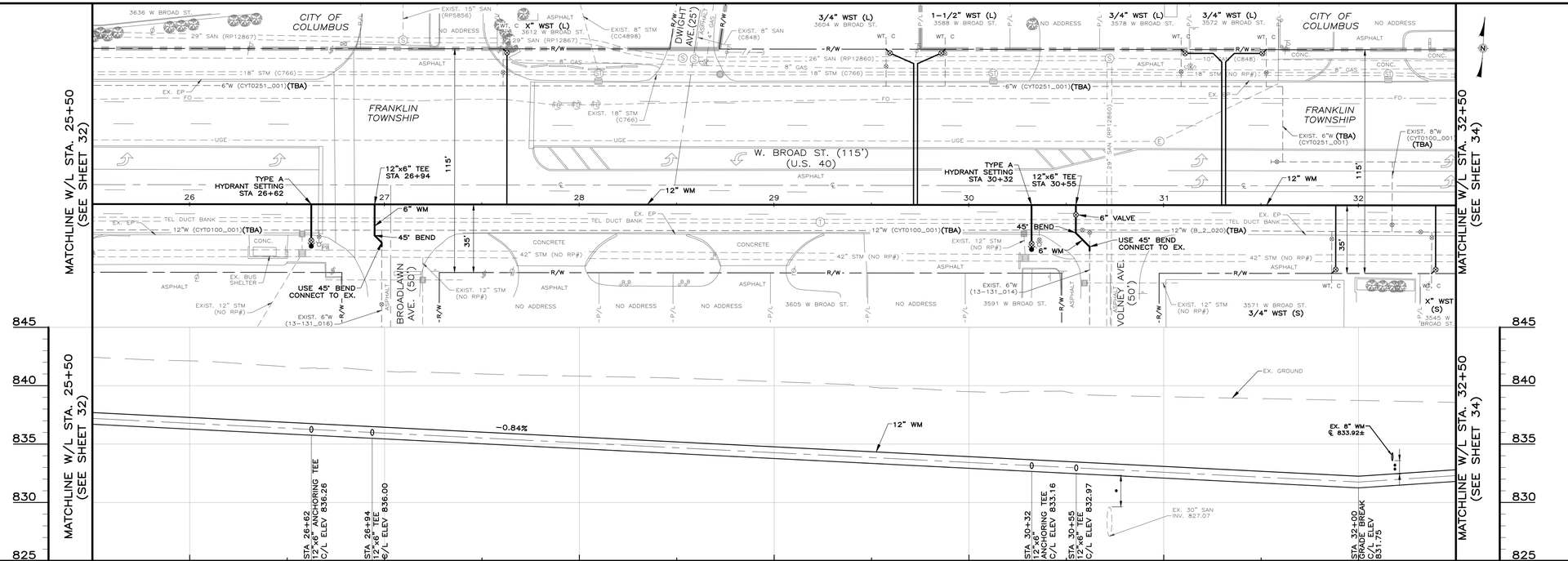

NOTES:

1. * = MAINTAIN A MINIMUM OF 18 INCHES OF CLEARANCE BETWEEN OUTSIDE OF SEWER PIPE TO OUTSIDE OF WATER MAIN PIPE
2. ** = MAINTAIN A MINIMUM OF 12 INCHES OF CLEARANCE BETWEEN EXISTING AND PROPOSED WATER MAINS.
3. REFER TO SHEET 43–44 FOR RESTORATION PLAN.

WM STATION	26		27		28		29		30		31		32		WM STATION
GROUND	842.13	841.61	841.22	841.01	840.82	840.64	840.35	839.89	839.49	839.47	839.06	838.90	838.73	838.57	GROUND
C/L OF PIPE	836.78	836.36	835.94	835.52	835.11	834.69	834.27	833.85	833.43	833.01	832.59	832.17	831.75	832.30	C/L OF PIPE
CUT TO INVERT	5.84	5.75	5.78	5.98	6.21	6.46	6.58	6.54	6.56	6.96	6.97	7.23	7.48	6.77	CUT TO INVERT

CITY OF COLUMBUS
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DIVISION OF WATER

PLAN AND PROFILE
WEST BROAD STREET

DIVISION OF WATER CONTRACT NO. 2128
CAPITAL IMPROVEMENT PROJECT NO. 690236–100104
EDSEL AVENUE AREA WATER LINE IMPROVEMENTS

SCALE
HORIZ. 1"=30'
VERT. 1"=5'

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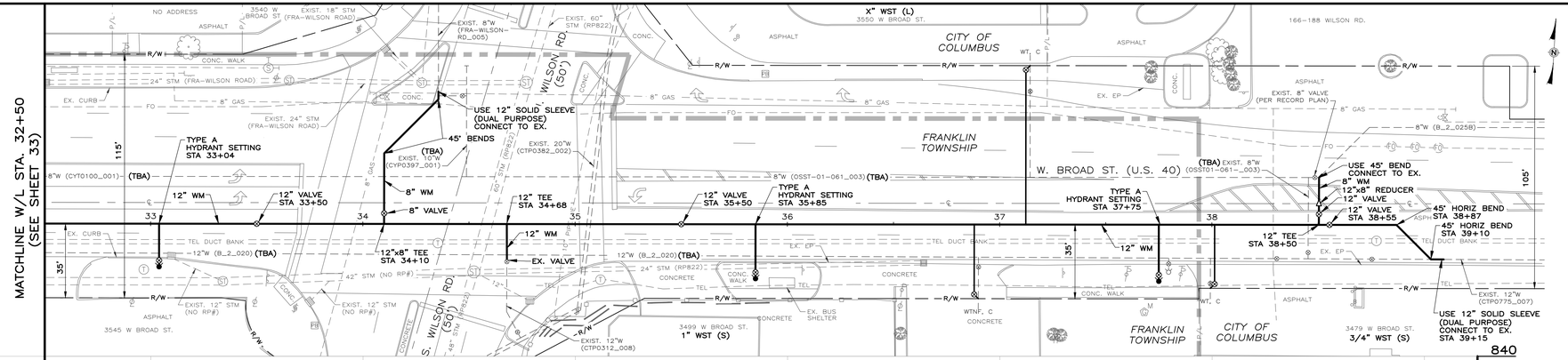

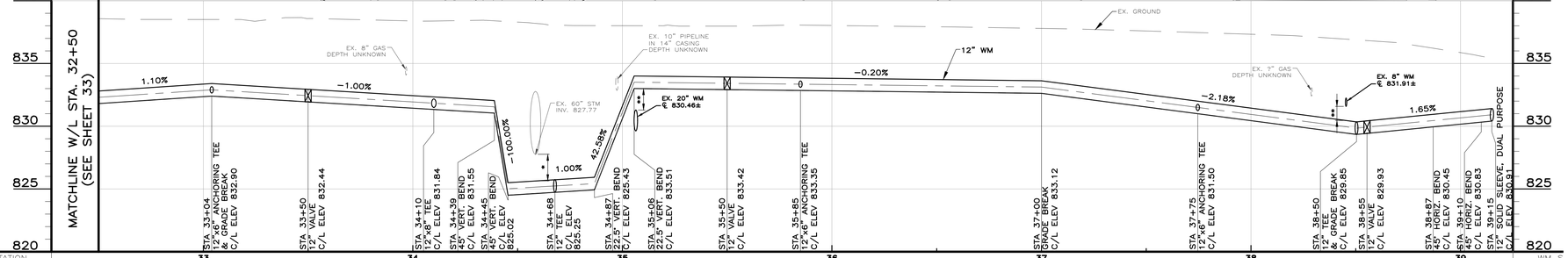

WM STATION	33	34			35			36		37		38		39	WM S
GROUND	838.51	838.58	838.39	838.30	838.01	837.98	838.03	837.93	837.59	837.79	837.33	836.89	835.87		GI
C/L OF PIPE	832.86	832.44	831.94	825.06	831.12	833.42	833.32	833.22	833.12	833.12	832.03	830.94	829.86	830.67	C/L OF
CUT TO INVERT	6.15	6.64	6.95	13.74	7.40	5.06	5.21	5.21	5.17	6.06	6.88	7.53	5.70		CUT TO I

NOTES:

1. * = MAINTAIN A MINIMUM OF 18 INCHES OF CLEARANCE BETWEEN OUTSIDE OF SEWER PIPE TO OUTSIDE OF WATER MAIN PIPE
2. ** = MAINTAIN A MINIMUM OF 12 INCHES OF CLEARANCE BETWEEN EXISTING AND PROPOSED WATER MAINS.
3. REFER TO SHEET 44 FOR RESTORATION PLAN.

CITY OF COLUMBUS
DEPARTMENT OF PUBLIC UTILITIES
DIVISION OF WATER

PLAN AND PROFILE
WEST BROAD STREET

DIVISION OF WATER CONTRACT NO. 2128
CAPITAL IMPROVEMENT PROJECT NO. 690236-100104
EDSEL AVENUE AREA WATER LINE IMPROVEMENTS

SCALE
HORIZ. 1"=30'
VERT. 1"=5'

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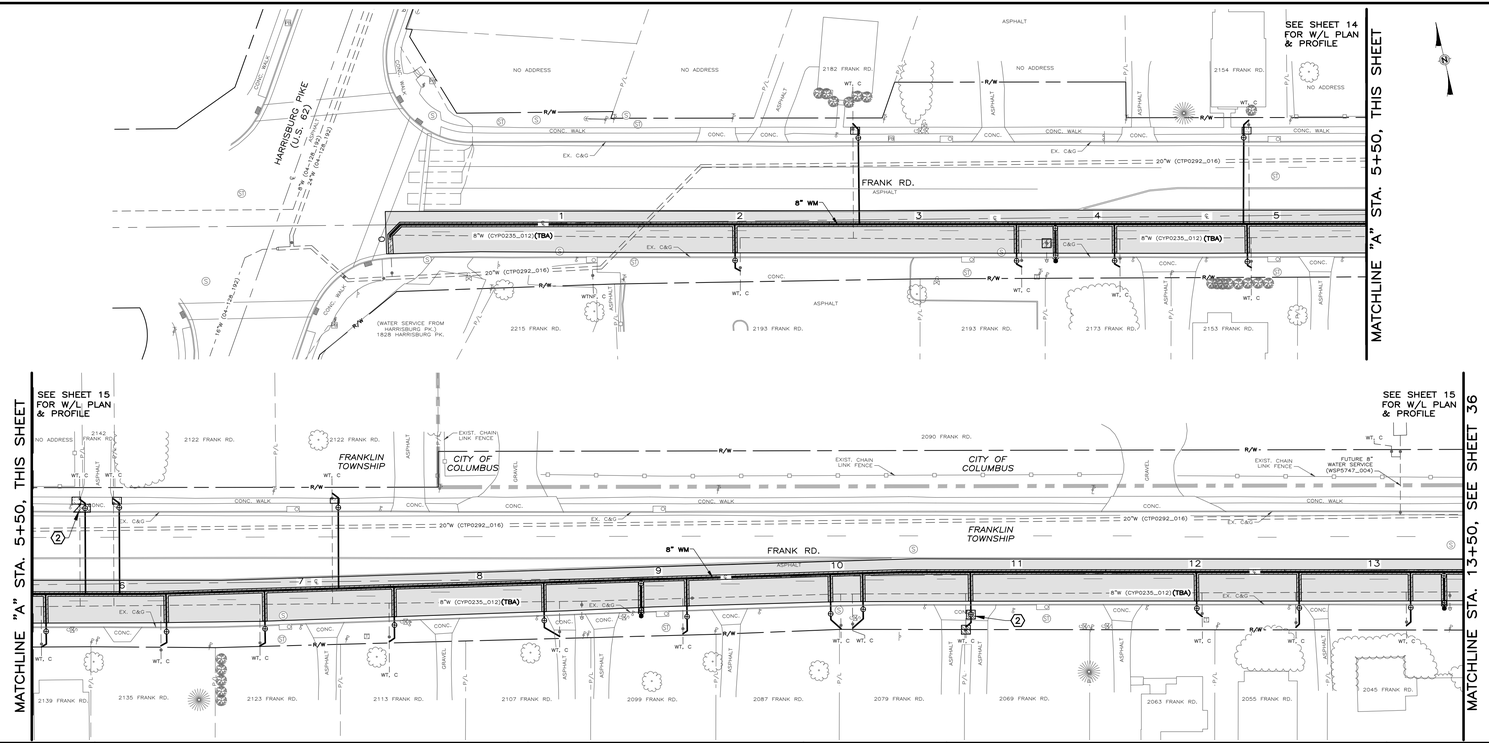
XX



CODED NOTES:

1. DRIVEWAY REPLACEMENT TYPE IIIA (ASPHALT) PER ITEM 259
2. DRIVEWAY REPLACEMENT TYPE IIIB (CONCRETE) PER ITEM 259
3. DRIVEWAY REPLACEMENT TYPE IIIC (GRAVEL) PER ITEM 259

NOTES:

1. REFER TO GENERAL NOTE 17 FOR DETAILS ON RESTORATION LIMITS.
2. ALL DAMAGED PAVEMENT MARKINGS SHALL BE REPLACED TO THEIR ORIGINAL CONDITION.
3. REFER TO GENERAL NOTE 17 FOR DETAILS REGARDING RESTORATION IN GRASS AREAS.

PAVEMENT RESURFACING PER STD DWG 1441

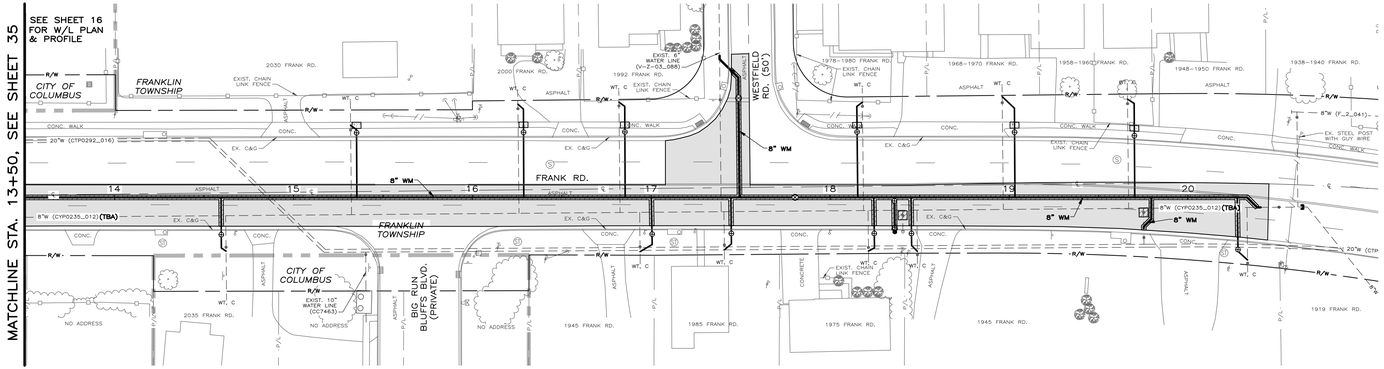
PERMANENT PAVEMENT REPLACEMENT WITHOUT HEAT WELD PER GENERAL NOTE XX

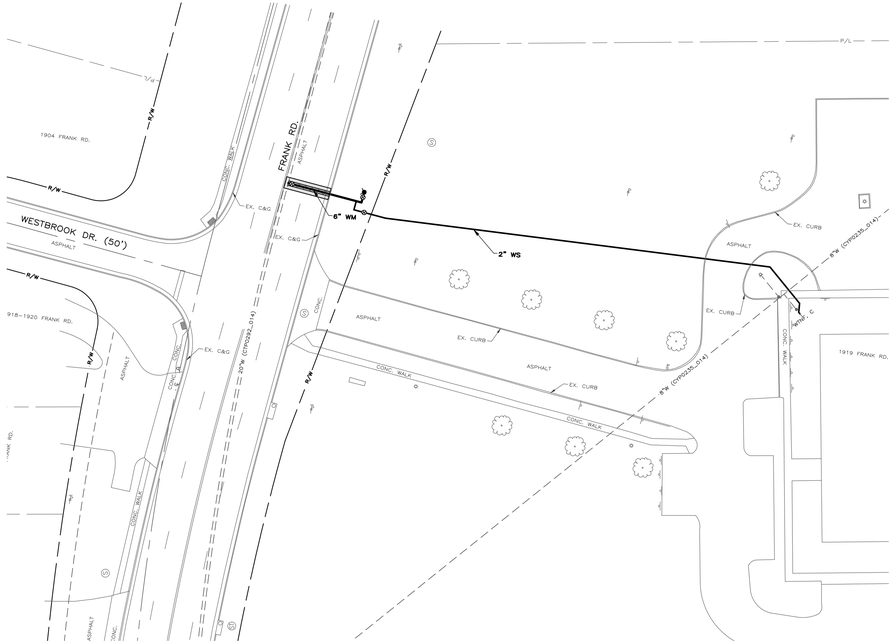
PERMANENT PAVEMENT REPLACEMENT WITH HEAT WELD PER GENERAL NOTE XX

DRIVEWAY PAVEMENT REPLACEMENT PER ITEM 259

CONCRETE SIDEWALK REPAIR PER ITEM 608

		CITY OF COLUMBUS DEPARTMENT OF PUBLIC UTILITIES DIVISION OF WATER			RESTORATION PLAN FRANK ROAD	DIVISION OF WATER CONTRACT NO. 2128 CAPITAL IMPROVEMENT PROJECT NO. 690236–100104 EDSEL AVENUE AREA WATER LINE IMPROVEMENTS	SCALE HORIZ. 1"=40'	19–083	35 / XX



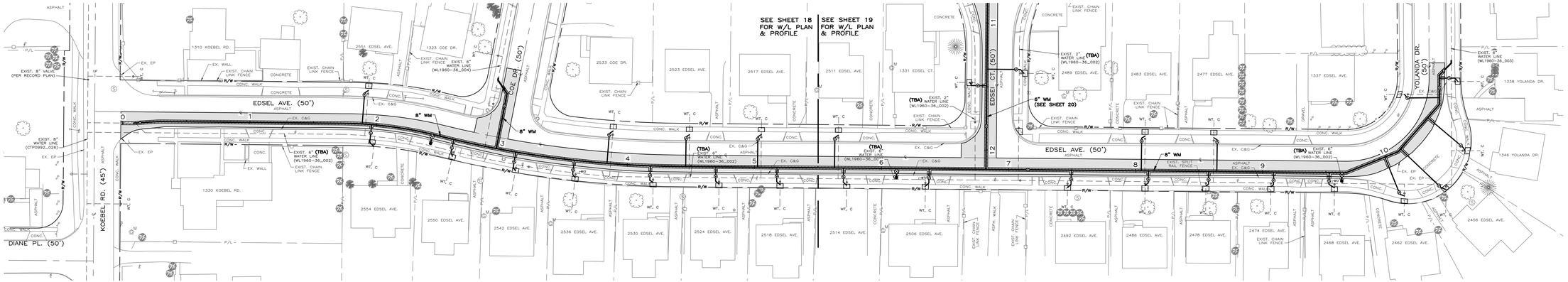


NOTES:

1. REFER TO GENERAL NOTE 17 FOR DETAILS ON RESTORATION LIMITS.
2. ALL DAMAGED PAVEMENT MARKINGS SHALL BE REPLACED TO THEIR ORIGINAL CONDITION.
3. REFER TO GENERAL NOTE 17 FOR DETAILS REGARDING RESTORATION IN GRASS AREAS.

- PAVEMENT RESURFACING PER STD DWG 1441
- PERMANENT PAVEMENT REPLACEMENT WITHOUT HEAT WELD PER GENERAL NOTE XX
- PERMANENT PAVEMENT REPLACEMENT WITH HEAT WELD PER GENERAL NOTE XX
- DRIVEWAY PAVEMENT REPLACEMENT PER ITEM 259
- CONCRETE SIDEWALK REPAIR PER ITEM 608

		CITY OF COLUMBUS DEPARTMENT OF PUBLIC UTILITIES DIVISION OF WATER			RESTORATION PLAN FRANK ROAD	DIVISION OF WATER CONTRACT NO. 2128 CAPITAL IMPROVEMENT PROJECT NO. 690236-100104 EDSEL AVENUE AREA WATER LINE IMPROVEMENTS	SCALE HORIZ. 1"=40'	19-083	36 / XX



PAVEMENT RESURFACING PER STD DWG 1441

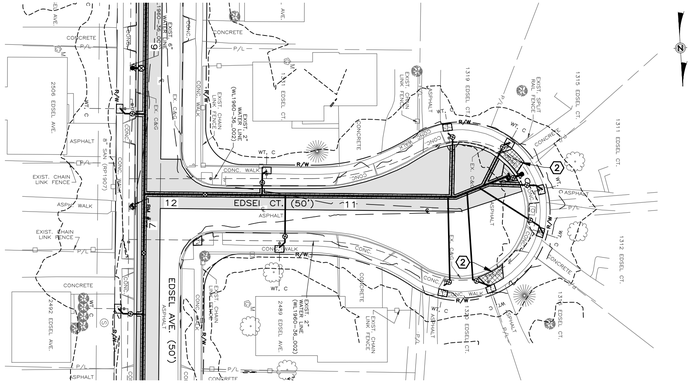
PERMANENT PAVEMENT REPLACEMENT WITHOUT HEAT WELD PER GENERAL NOTE XX

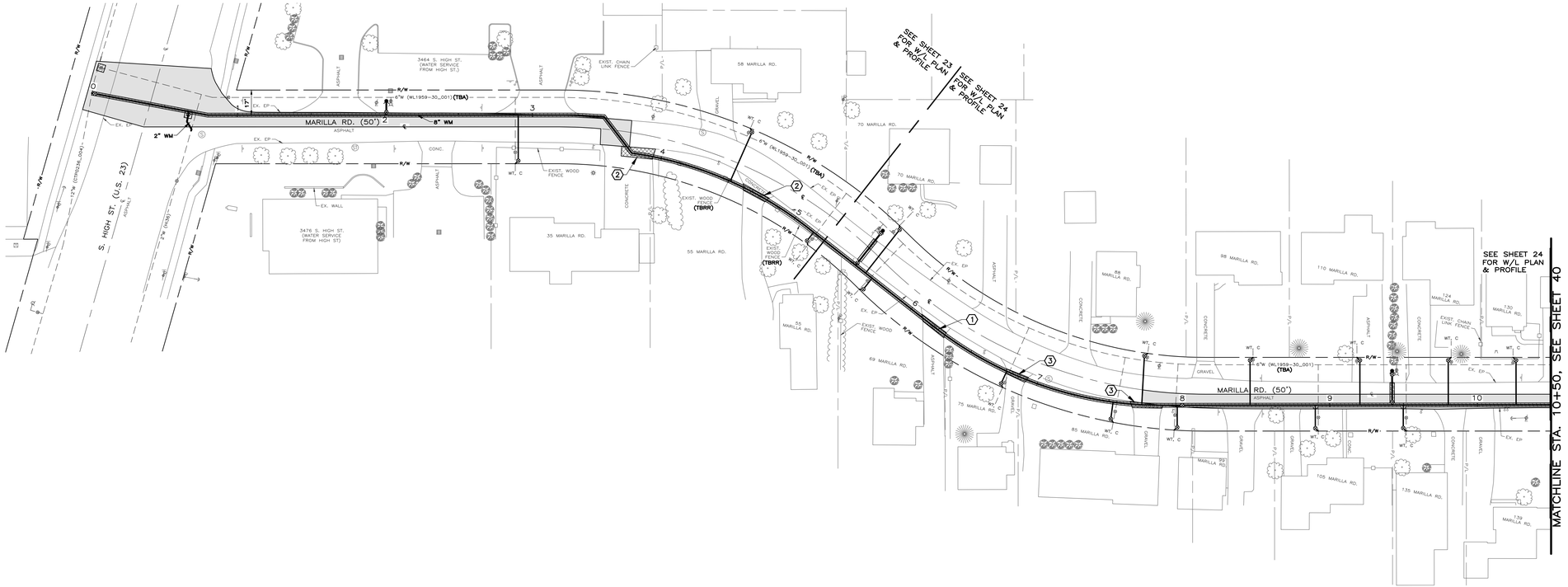
PERMANENT PAVEMENT REPLACEMENT WITH HEAT WELD PER GENERAL NOTE XX

DRIVEWAY PAVEMENT REPLACEMENT PER ITEM 259

CONCRETE SIDEWALK REPAIR PER ITEM 608

		CITY OF COLUMBUS DEPARTMENT OF PUBLIC UTILITIES DIVISION OF WATER			RESTORATION PLAN EDSEL AVENUE	DIVISION OF WATER CONTRACT NO. 2128 CAPITAL IMPROVEMENT PROJECT NO. 690236-100104 EDSEL AVENUE AREA WATER LINE IMPROVEMENTS	SCALE HORIZ. 1"=40'	19-083	37 XX


EDSEL CT. (50')
EDSEL AVE. (50')
EVERGREEN RD.
2506 EDSEL AVE.
2492 EDSEL AVE.
2469 EDSEL AVE.
1312 EDSEL CT.
1313 EDSEL CT.
1314 EDSEL CT.
1316 EDSEL CT.
EXIST. CHAIN LINK FENCE
EXIST. 2" WATER LINE (WL1962-36_002)
EXIST. 6" WATER LINE (WL1962-67_003)
EXIST. 8" WATER LINE (WL1962-67_003)
EXIST. 2" WATER LINE (WL1962-67_003)
EXIST. 6" WATER LINE (WL1964-51_005)
EXIST. 2" WATER LINE (WL1961-43_003)
EXIST. 8" WATER LINE (WL1961-44_003)
EXIST. 2" WATER LINE (WL1962-67_003)
EXIST. 2" WATER LINE (WL1962-36_002)
EXIST. 2" WATER LINE (WL1962-67_003)
EXIST. 2" WATER LINE (WL1962-67_003)
EXIST. 2" WATER LINE (WL1962-67_003



CODED NOTES:

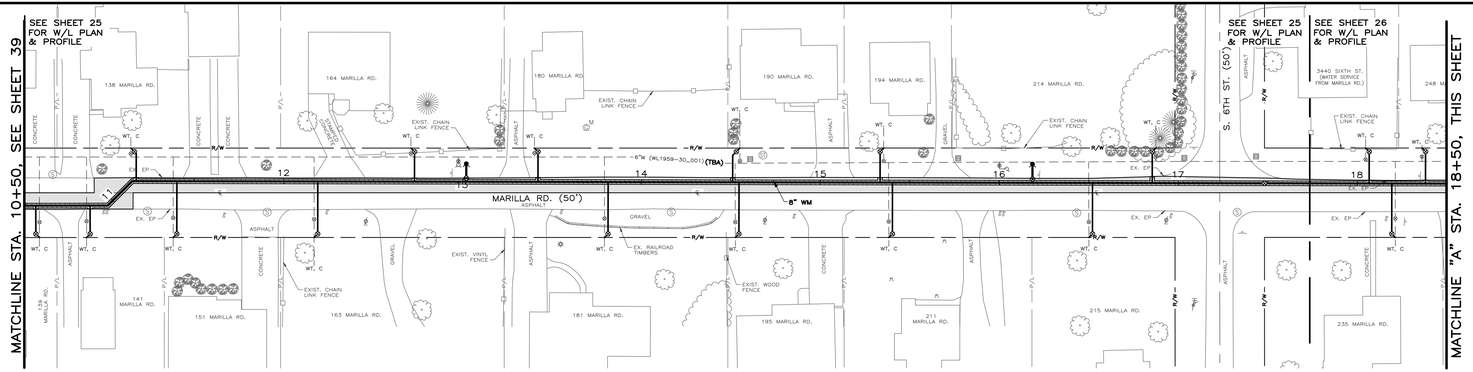
1. DRIVEWAY REPLACEMENT TYPE IIIA (ASPHALT) PER ITEM 259
2. DRIVEWAY REPLACEMENT TYPE IIIB (CONCRETE) PER ITEM 259
3. DRIVEWAY REPLACEMENT TYPE IIIC (GRAVEL) PER ITEM 259

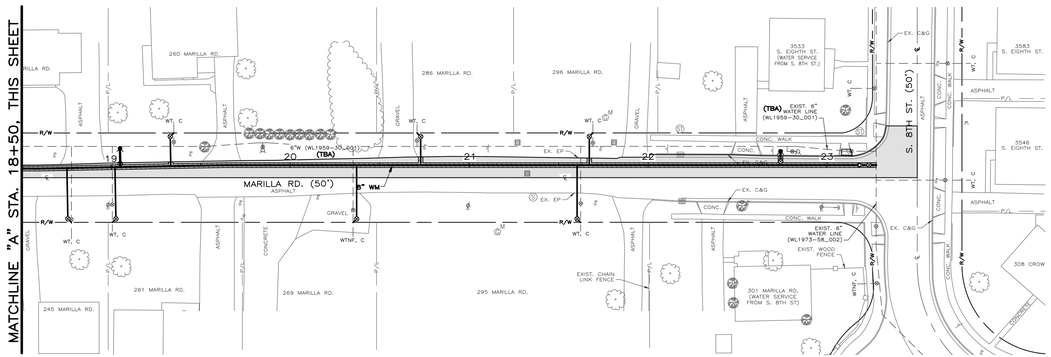
NOTES:

1. REFER TO GENERAL NOTE 17 FOR DETAILS ON RESTORATION LIMITS.
2. ALL DAMAGED PAVEMENT MARKINGS SHALL BE REPLACED TO THEIR ORIGINAL CONDITION.
3. REFER TO GENERAL NOTE 17 FOR DETAILS REGARDING RESTORATION IN GRASS AREAS.

- PAVEMENT RESURFACING PER STD DWG 1441
- PERMANENT PAVEMENT REPLACEMENT WITHOUT HEAT WELD PER GENERAL NOTE XX
- PERMANENT PAVEMENT REPLACEMENT WITH HEAT WELD PER GENERAL NOTE XX
- DRIVEWAY PAVEMENT REPLACEMENT PER ITEM 259
- CONCRETE SIDEWALK REPAIR PER ITEM 608

		CITY OF COLUMBUS DEPARTMENT OF PUBLIC UTILITIES DIVISION OF WATER				RESTORATION PLAN MARILLA ROAD	DIVISION OF WATER CONTRACT NO. 2128 CAPITAL IMPROVEMENT PROJECT NO. 690236-100104 EDSEL AVENUE AREA WATER LINE IMPROVEMENTS	SCALE HORIZ. 1"=40'	19-083	39 / XX





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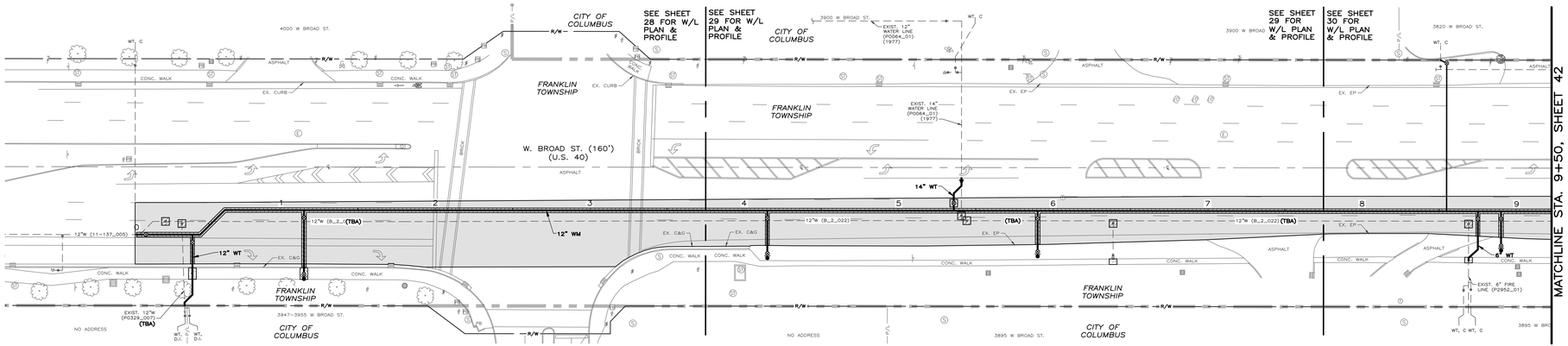
- PAVEMENT RESURFACING PER STD DWG 1441
- PERMANENT PAVEMENT REPLACEMENT WITHOUT HEAT WELD PER GENERAL NOTE XX
- PERMANENT PAVEMENT REPLACEMENT WITH HEAT WELD PER GENERAL NOTE XX
- DRIVEWAY PAVEMENT REPLACEMENT PER ITEM 259
- CONCRETE SIDEWALK REPAIR PER ITEM 608

		CITY OF COLUMBUS DEPARTMENT OF PUBLIC UTILITIES DIVISION OF WATER			RESTORATION PLAN MARILLA ROAD	DIVISION OF WATER CONTRACT NO. 2128 CAPITAL IMPROVEMENT PROJECT NO. 690236-100104 EDSEL AVENUE AREA WATER LINE IMPROVEMENTS	SCALE HORIZ. 1"=40'	19-083	40 / XX



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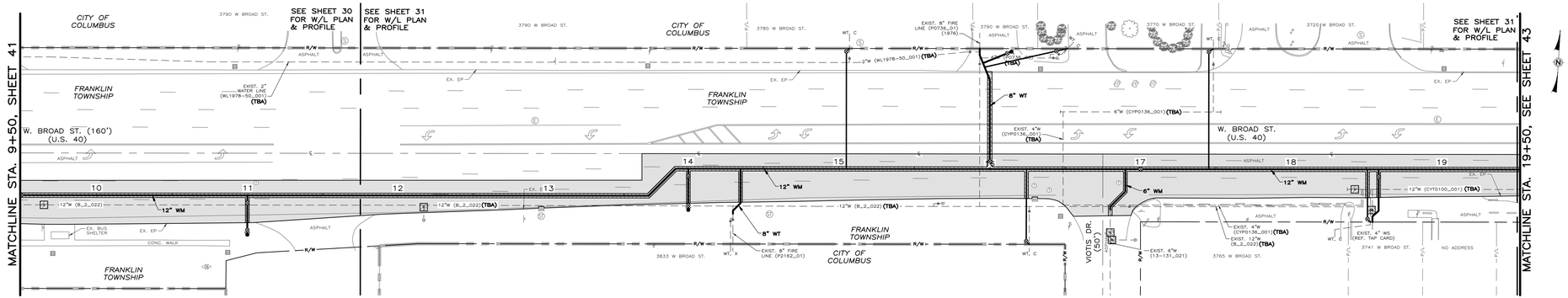
- PERMANENT PAVEMENT REPLACEMENT WITHOUT HEAT WELD PER GENERAL NOTE XX
- PERMANENT PAVEMENT REPLACEMENT WITH HEAT WELD PER GENERAL NOTE XX
- DRIVEWAY PAVEMENT REPLACEMENT PER ITEM 259
- CONCRETE SIDEWALK REPAIR PER ITEM 608

		CITY OF COLUMBUS DEPARTMENT OF PUBLIC UTILITIES DIVISION OF WATER			RESTORATION PLAN WEST BROAD STREET	DIVISION OF WATER CONTRACT NO. 2128 CAPITAL IMPROVEMENT PROJECT NO. 690236-100104 EDSEL AVENUE AREA WATER LINE IMPROVEMENTS	SCALE HORIZ. 1"=40'	19-083	41 / XX



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PAVEMENT RESURFACING PER STD DWG 1441

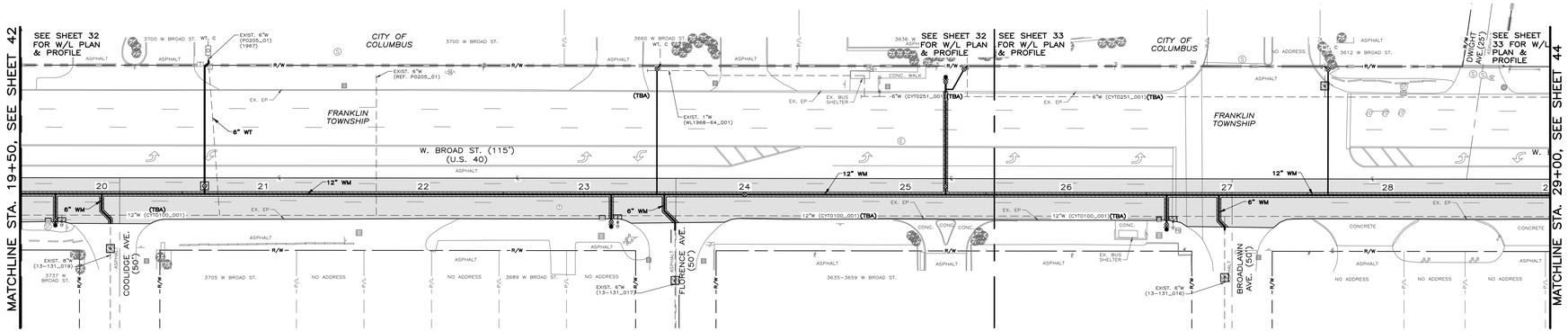
PERMANENT PAVEMENT REPLACEMENT WITHOUT HEAT WELD PER GENERAL NOTE XX

PERMANENT PAVEMENT REPLACEMENT WITH HEAT WELD PER GENERAL NOTE XX

DRIVEWAY PAVEMENT REPLACEMENT PER ITEM 259

CONCRETE SIDEWALK REPAIR PER ITEM 608

	CITY OF COLUMBUS DEPARTMENT OF PUBLIC UTILITIES DIVISION OF WATER			RESTORATION PLAN WEST BROAD STREET	DIVISION OF WATER CONTRACT NO. 2128 CAPITAL IMPROVEMENT PROJECT NO. 690236-100104 EDSEL AVENUE AREA WATER LINE IMPROVEMENTS	SCALE HORIZ. 1"=40'	19-083	42 XX



NOTES:

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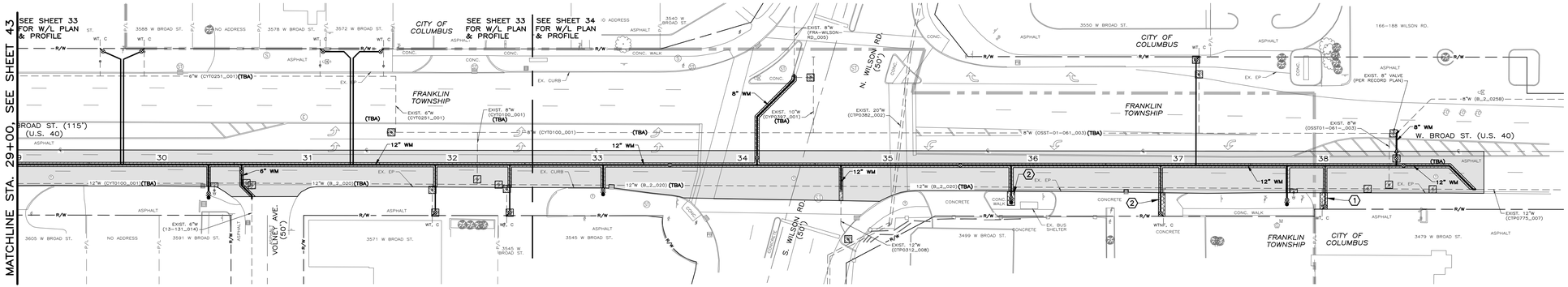
	CITY OF COLUMBUS DEPARTMENT OF PUBLIC UTILITIES DIVISION OF WATER				RESTORATION PLAN WEST BROAD STREET	DIVISION OF WATER CONTRACT NO. 2128 CAPITAL IMPROVEMENT PROJECT NO. 690236-100104 EDSEL AVENUE AREA WATER LINE IMPROVEMENTS	SCALE HORIZ. 1"=40'	19-083	43 XX



CODED NOTES:

1. DRIVEWAY REPLACEMENT TYPE IIIA (ASPHALT) PER ITEM 259
2. DRIVEWAY REPLACEMENT TYPE IIIB (CONCRETE) PER ITEM 259
3. DRIVEWAY REPLACEMENT TYPE IIIC (GRAVEL) PER ITEM 259

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		CITY OF COLUMBUS DEPARTMENT OF PUBLIC UTILITIES DIVISION OF WATER			RESTORATION PLAN WEST BROAD STREET	DIVISION OF WATER CONTRACT NO. 2128 CAPITAL IMPROVEMENT PROJECT NO. 690236-100104 EDSEL AVENUE AREA WATER LINE IMPROVEMENTS	SCALE HORIZ. 1"=40'	19-083	44 / XX

TEMPORARY TRAFFIC CONTROL

1. ALL TEMPORARY TRAFFIC CONTROL (TTC) DEVICES SHALL BE FURNISHED, ERECTED, MAINTAINED AND REMOVED BY THE CONTRACTOR IN ACCORDANCE WITH THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS (CURRENT EDITION). COPIES ARE AVAILABLE FROM THE OHIO DEPARTMENT OF TRANSPORTATION, OFFICE OF CONTRACTS, 1980 WEST BROAD STREET, COLUMBUS, OHIO 43223. NOTE: ALL DEVICES SHALL COMPLY, FOR CONDITION AND LOCATION, WITH THE CURRENT EDITION OF THE NCHRP 350 AND MASH CRASH TESTING GUIDELINES.

2. CONSTRUCTION OPERATIONS SHALL NOT BEGIN UNTIL ALL TRAFFIC CONTROL IS IN PLACE AND APPROVED BY THE DEPARTMENT OF PUBLIC SERVICE INSPECTOR. IF THE CONTRACTOR DOES NOT COMPLY WITH THE STANDARDS, INCLUDING THE INSTALLATION OF TEMPORARY PAVEMENT MARKINGS AND THE REMOVAL OF CONFLICTING TRAFFIC CONTROLS, THEIR WORK PERMIT SHALL BE REVOKED AND ALL WORK SHALL BE TERMINATED. TEMPORARY PAVEMENT MARKINGS TO INCLUDE, BUT NOT LIMITED TO, CHANNELIZING LINES, EDGE LINES, AND CENTERLINES SHALL BE INSTALLED AND MAINTAINED ON ALL CONSTRUCTION OPERATIONS LASTING A MINIMUM OF 14 CALENDAR DAYS OR AS DIRECTED BY THE TEMPORARY TRAFFIC CONTROL COORDINATOR OR THE PROJECT ENGINEER.

3. THE CONTRACTOR SHALL GIVE ADVANCE NOTIFICATION (WRITTEN AND VERBALLY) TO THE TEMPORARY TRAFFIC CONTROL COORDINATOR AT 614-645-0355 OR 614-645-5845 & THE DIVISION OF REFUSE COLLECTION'S OPERATION MANAGER AT 614-645-1675, WRITTEN NOTIFICATION TO PAVING THE WAY AT PAVINGTHEWAY@MORPC.ORG OR VERBAL TO (614)233-4200 , PROJECT ENGINEER, AND THE SENIOR SERVICE PLANNER OF COTA AT 614-308-4373 OR FAX 614-275-5933, INFORMING THEM OF ALL UPCOMING MAINTENANCE OF TRAFFIC CHANGES ON A WEEKLY BASIS. NOTIFICATION SHALL INCLUDE, BUT NOT BE LIMITED TO, WHAT, WHERE, WHEN, AND HOW PEDESTRIAN AND VEHICULAR TRAFFIC WILL BE AFFECTED, AND THE TEMPORARY TRAFFIC CONTROL PROCEDURES THE CONTRACTOR IS PLANNING TO USE. THE TYPE OF TRAFFIC CHANGE SHALL DETERMINE THE LENGTH OF ADVANCE NOTIFICATION REQUIRED:

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

THE COTA SENIOR SERVICE PLANNER SHALL BE CONTACTED 30 DAYS PRIOR TO ANY PLANNED CLOSURE ON ASSIGNED COTA ROUTES. ANY OTHER UNFORESEEN IMPACTS TO TRAFFIC SHALL BE IMMEDIATELY REPORTED AS THEY OCCUR.

4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION AND SAFE MOVEMENT OF PEDESTRIANS THROUGH, AROUND, OR DETOURED AWAY FROM THE CONSTRUCTION SITE. TRAFFIC CONTROL FOR PEDESTRIAN MOVEMENT SHALL BE AS PER CITY OF COLUMBUS CONSTRUCTION AND MATERIAL SPECIFICATIONS, CITY OF COLUMBUS STANDARD CONSTRUCTION DRAWINGS, AND FIGURES 6H-28 (TA-28) AND 6H-29 (TA-29) OF PART VI OF THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. WHEN NOT SHOWN ON A SIGNED PLAN, ALL SIDEWALK DIVERSIONS AND TEMPORARY MID-BLOCK CROSSINGS SHALL BE PRE-APPROVED BY THE PROJECT ENGINEER OR THE TEMPORARY TRAFFIC CONTROL COORDINATOR. ACCESS FOR PEDESTRIAN AND VEHICULAR TRAFFIC TO ALL ADJOINING PROPERTIES SHALL BE MAINTAINED AT ALL TIMES.

5. MAINTAINING TRAFFIC DURING HOLIDAYS AND SPECIAL EVENTS
NO WORK SHALL BE PERFORMED AND ALL EXISTING LANES SHALL BE OPEN TO TRAFFIC DURING DESIGNATED HOLIDAYS OR SPECIAL EVENTS INCLUDING THE OHIO STATE FOOTBALL HOME GAMES. THE PERIOD OF TIME THAT THE LANES ARE TO BE OPEN DEPENDS ON THE DAY OF THE WEEK ON WHICH THE HOLIDAY OR EVENT FALLS. CONTACT THE CITY OF COLUMBUS TEMPORARY TRAFFIC CONTROL COORDINATOR, 614-645-5845 OR CELL, 614-332-7472 FOR EVENT DATES, LOCATIONS, AND SCHEDULE. HOLIDAYS WILL CONSIST OF CHRISTMAS, NEW YEARS, FOURTH OF JULY-RED, WHITE AND BOOM FIREWORKS NIGHT (6:00AM-12MIDNIGHT), MEMORIAL DAY, LABOR DAY, AND THANKSGIVING. RED, WHITE AND BOOM, FIREWORKS CELEBRATION AND A MINIMUM OF ONE DAY PRIOR TO FIREWORKS NIGHT SHALL REQUIRE ALL TEMPORARY TRAFFIC CONTROL DEVICES TO BE REMOVED FROM THE PROJECT AREA AND PLACE EITHER IN A PRE-DETERMINED LOCATION APPROVED BY THE TEMPORARY TRAFFIC CONTROL COORDINATOR OR COMPLETELY REMOVED FROM THE SITE.

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

7. THE CONTRACTOR SHALL MAINTAIN ALL PERMANENT TRAFFIC CONTROLS NOT IN CONFLICT WITH THE TEMPORARY TRAFFIC CONTROLS THROUGHOUT THIS PROJECT. PERMANENT TRAFFIC CONTROLS MAY BE TEMPORARILY RELOCATED OR COVERED, AS APPROVED BY THE ENGINEER. THE CONTRACTOR SHALL ASSUME ALL LIABILITY FOR MISSING, DAMAGED, OR IMPROPERLY PLACED SIGNS.

8. ANY WORK DONE BY THE DEPARTMENT OF PUBLIC SERVICE, INCLUDING INSTALLATION, RELOCATION, REMOVAL AND/OR REPLACEMENT OF TEMPORARY TRAFFIC CONTROL DEVICES AS A RESULT OF WORK DONE BY THE CONTRACTOR OR AS A RESULT OF NEGLIGENCE OF THE CONTRACTOR, SHALL BE AT THE CONTRACTORS' EXPENSE.

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

10. ITEM 614 - MAINTAINING TRAFFIC
ALL COSTS THAT CONSIST OF MAINTAINING AND PROTECTING VEHICULAR AND PEDESTRIAN TRAFFIC ACCORDING TO THE LATEST EDITION OF THE CITY OF COLUMBUS CONSTRUCTION AND MATERIAL SPECIFICATIONS, THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS (OMUTCD), AND PER THE REQUIREMENTS DESIGNATED IN THE PLAN INCLUDING ALL LAW ENFORCEMENT OFFICER (LEO) AND FLAGGER HOURS SHALL BE INCLUDED IN THE LUMP SUM ITEM 614.
IN ADDITION TO THE REQUIREMENTS HEREIN, AND THE LATEST EDITION OF THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, A UNIFORMED LAW ENFORCEMENT OFFICER (LEO) SHALL BE PROVIDED FOR CONTROLLING TRAFFIC UNDER THE FOLLOWING CONDITIONS:

- WORK WITHIN A SIGNALIZED INTERSECTION, DEFINED AS THE AREA BOUNDED BY THE REAR X-WALK LINES
- WHEN FLAGGING WITHIN THE INTERSECTION OF TWO ARTERIAL ROADWAYS
- WHEN SPECIFIED IN THE MAINTENANCE OF TRAFFIC PLAN OR AS WHEN DIRECTED BY THE PROJECT ENGINEER
- WHEN SHIFTING TRAFFIC LEFT OF CENTER, THROUGH A SIGNALIZED INTERSECTION, WITHOUT SHIFTING SIGNAL HEADS

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

FLAGGERS AND LEO'S SHALL BE EQUIPPED ACCORDING TO THE STANDARDS FOR FLAGGING TRAFFIC CONTAINED IN THE OMUTCD. FLAGGING OPERATIONS PERFORMED BY LEO'S OR DESIGNATED FLAGGERS SHALL ONLY BE PERMITTED AS LONG AS ALL TRAFFIC CONTROL IS IN PLACE ACCORDING TO FIGURE 6H-10 (TA-10) IN THE OHIO MANUAL. PATROL CARS SHALL NOT BE USED IN FLAGGING OPERATIONS.

IF THE CONTRACTOR WISHES TO UTILIZE LEO'S WITH OR WITHOUT PATROL CARS FOR TRAFFIC CONTROL OTHER THAN FOR THAT REQUIRED IN THE PLANS, THEY MAY DO SO AT THEIR OWN EXPENSE. THE CONTRACTOR SHALL MAKE ARRANGEMENT THROUGH THE COLUMBUS POLICE DIVISION AT (614) 645-4795.

LEO'S SHALL BE CONSIDERED TO BE EMPLOYED BY THE CONTRACTOR AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR THEIR ACTIONS. ALTHOUGH EMPLOYED BY THE CONTRACTOR, THE CITY REPRESENTATIVE SHALL HAVE CONTROL OVER THEIR PLACEMENT. LEO'S SHALL NOT HAVE THE AUTHORITY TO CHANGE, EDIT OR MODIFY ANY MAINTENANCE OF TRAFFIC SCHEME WITHOUT THE PERMISSION OF THE TEMPORARY TRAFFIC CONTROL COORDINATOR OR PROJECT ENGINEER UNLESS AN EMERGENCY DEVELOPS.

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

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

ITEM 614, LAW ENFORCEMENT OFFICER WITH PATROL CAR, AS PER PLAN- _____ HOURS

12. ITEM 614 - LAW ENFORCEMENT OFFICER (LEO) WITHOUT PATROL CAR, AS PER PLAN
IN ADDITION TO LEO AND FLAGGER HOURS INCLUDED IN ITEM 614 MAINTAINING TRAFFIC, LUMP SUM; THE FOLLOWING QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY TO BE USED AS DIRECTED BY THE ENGINEER OR AN ACCEPTABLE REPRESENTATIVE FOR THE CITY OF COLUMBUS. THE CONTRACTOR SHALL BE PAID FOR THIS BID ITEM ONLY IF DIRECTED BY THE ENGINEER.

ITEM 614, LAW ENFORCEMENT OFFICER WITHOUT PATROL CAR, AS PER PLAN - _____ HOURS

13. PORTABLE CHANGEABLE MESSAGE SIGNS (PCMS) SHALL BE INSTALLED A MINIMUM OF 7 DAYS PRIOR TO CLOSURE OF A ROADWAY. THE MESSAGE SHALL ADVISE THE MOTORIST OF THE DATES, TIMES, AND DURATION OF THE CLOSURE. THE PCMS SHALL REMAIN IN PLACE FOR 7 DAYS AFTER THE START OF THE CLOSURE.

14. WHEN NOT INCLUDED IN A SIGNED PLAN, A TTC PLAN (TTCP) INCLUDING PEDESTRIAN CONTROL SHALL BE SUBMITTED TO THE TTC COORDINATOR AT 614-645-0355 OR 614-645-5845 AT THE PRE-CONSTRUCTION MEETING OR A MINIMUM OF TEN (10) WORKING DAYS PRIOR TO BEGINNING WORK FOR APPROVAL. COPIES OF THE APPROVED TTCP SHALL BE GIVEN TO THE PROJECT ENGINEER AND KEPT ON SITE ALONG WITH THE STREET CLOSURE/OCCUPANCY PERMIT.

15. TYPE C STEADY-BURN OR TYPE D 360-DEGREE STEADY-BURN WARNING LIGHTS SHALL BE REQUIRED ON ALL BARRICADES, DRUMS, AND SIMILAR TRAFFIC CONTROL DEVICES IN USE AT NIGHT. ONLY 42" REFLECTORIZED CHANNELIZING DEVICES (CONES) SHALL BE PERMITTED FOR NIGHTTIME WORK WITH THE APPROVAL OF THE TTC COORDINATOR AT 614-645-0355 OR 614-645-5845 PER O.D.O.T. STANDARDS.

16. A FLASHING ARROW PANEL (48" X 96"-TYPE C) SHALL BE USED IN LANE CLOSURES AS PER THE OHIO MANUAL.

17. ALL TRENCHES WITHIN THE ROAD RIGHT OF WAY SHALL BE BACKFILLED OR SECURELY PLATED PER (CITY OF COLUMBUS GENERAL POLICY ON STEEL PLATE USAGE DATED 11/15/2006 AND STD. DWG. 1441, LATEST EDITION) DURING NON-WORKING HOURS.

18. TEMPORARY TRAFFIC CONTROL SHALL BE PROVIDED AS DETAILED ON SHEETS 47 THROUGH 49

19. TEMPORARY "EMERGENCY NO PARKING" SIGNS SHALL BE INSTALLED AT 50' C/C MINIMUM BY USE OF ANY OF THE FOLLOWING ITEMS: EXISTING SIGN POSTS, EXISTING UTILITY POLES, DRUMS AND/OR 42" CONES AND REMOVED BY THE CONTRACTOR IN AREAS WITH NO PARKING METERS. THE SIGNS SHALL HAVE THE INSTALLATION DATE, WORKING DATES, AND HOURS OF RESTRICTION SHOWN ON EACH SIGN. THESE SIGNS MAY BE OBTAINED FROM THE DEPARTMENT OF PUBLIC SERVICE'S PERMIT OFFICE. THE POLICE DIVISION REQUIRES THE "EMERGENCY NO PARKING" SIGNS BE POSTED A MINIMUM OF SEVENTY-TWO (72) HOURS PRIOR TO ANY VEHICLES BEING TOWED. WITHIN TWENTY-FOUR (24) HOURS OF POSTING, THE CONTRACTOR SHALL SUPPLY THE DEPARTMENT OF PUBLIC SERVICE WITH A WRITTEN RECORD OF POSTED LOCATIONS (FAX: 614-645-3298).

20. THE CONTRACTOR SHALL CONTACT OHIO UTILITY PROTECTION SERVICE (OUPS) TO LOCATE AND MARK ALL UNDERGROUND TRAFFIC CONTROL CABLES PRIOR TO THE BEGINNING OF ANY WORK WITHIN 450 FEET OF ANY SIGNALIZED INTERSECTION(S) OR WITHIN ANY POSTED AREA WHERE THE DEPARTMENT HAS UNDERGROUND CABLE. THE SIGNAL OPERATION ENGINEER (614-EGHT-6418) SHALL BE NOTIFIED SIX (6) WEEKS IN ADVANCE FOR SIGNAL REVISIONS OR POLE RELOCATIONS.

21. NO EXCAVATION SHALL BE MADE WITHIN FIVE (5) FEET OF ANY FOUNDATION THAT SUPPORTS SIGNAL POLES, TRAFFIC SIGNAL DISPLAYS OR SIGNS BY MAST ARM OR SIGNAL SPAN. EXCAVATION WITHIN EIGHT (8) FEET, BUT MORE THAN FIVE (5) FEET SHALL REQUIRE ADDITIONAL SUPPORT (DOWN GUY, HEAD GUY, BASE GUY, ETC.). THE CONTRACTOR SHALL CONTACT SIGNAL OPERATION PERSONNEL AT 614-645-0423(CELL 614-419-4501) AT LEAST FORTY-EIGHT (48) HOURS (EXCLUDING SAT. & SUN.) PRIOR TO THE BEGINNING OF SUCH EXCAVATION SO THAT THE CITY CAN APPROVE THE STABILIZATION SETUP BY THE CONTRACTOR. IF UNABLE TO MAKE CONTACT THROUGH ABOVE NUMBERS, CALL 614-645-7393. STABILIZATION WILL BE DONE BY THE CONTRACTOR AT THE OWNERS'/CONTRACTING AGENCY'S EXPENSE.

22. SIGNAL CONDUIT CLEARANCE 3' HORIZONTAL AND 1' VERTICAL FROM ADJACENT UTILITIES SHALL BE MAINTAINED AT ALL TIMES.

23. WHEN ANY TRAFFIC CONTROL DEVICE, CONDUIT, OR CABLE IS DAMAGED, THE CONTRACTOR SHALL NOTIFY SIGNAL OPERATION PERSONNEL AT 614-645-0423 (CELL 614-419-4501) BETWEEN 7:00 AM AND 4:00 PM, MONDAY THROUGH FRIDAY. IF UNABLE TO MAKE CONTACT THROUGH THE OTHER NUMBERS, CALL 614-645-7393.

24. THE ROADWAY OR ANY SECTION OF ROADWAY SHALL NOT BE OPENED TO NON-CONSTRUCTION TRAFFIC UNTIL ALL TEMPORARY, NON-REFLECTIVE, BLACKOUT TAPE HAS BEEN COMPLETELY REMOVED FROM NON-CONFLICTING PERMANENT PAVEMENT MARKINGS FOR THAT AREA OF THE ROADWAY, OR UNLESS OTHERWISE DIRECTED IN WRITING BY THE ENGINEER. THIS IS SUPPLEMENTAL TO CITY OF COLUMBUS, CMS-614.11- G, AND SHALL BE PAID FOR THROUGH THE 614-LUMP SUM.

25. WHENEVER YELLOW CENTERLINES OR TURN-LANE LINES ARE PAVED OVER, REMOVED, OR OTHERWISE UNSERVICEABLE, THE CONTRACTOR SHALL INSTALL CLASS II TEMPORARY STRIPING (MINIMUM 4' LONG SEGMENTS). TEMPORARY PAINT SHALL BE USED ON ALL MILLED SURFACES. TEMPORARY TAPE SHALL BE USED ON ALL FINAL COURSES OF ASPHALT. PAINT OR TAPE MAY BE USED ON INTERMEDIATE COURSES OF ASPHALT. IF APPROVED BY THE ENGINEER, DRUMS WITH STEADY BURNING TYPE C OR TYPE D 360 DEGREE WARNING LIGHTS AND "KEEP RIGHT" SIGNS MAY BE SUBSTITUTED FOR CENTERLINE MARKINGS.

26. CLASS II TEMPORARY STRIPING (MINIMUM 4' LONG SEGMENTS) SHALL BE AS PER ITEM 614 - WORK ZONE PAVEMENT MARKING AND SHALL BE PLACED WITHIN ONE (1) FOOT LONGITUDINAL TOLERANCE OF THE PERMANENT STRIPE(S). ALL TEMPORARY STRIPING NOT TO WITHIN ONE (1) FOOT TOLERANCE SHALL BE REMOVED AND REPLACED IN THE PROPER LOCATION BY THE CONTRACTOR. CLASS II TEMPORARY STRIPING SHALL BE OF THE APPROPRIATE COLOR AND SPACED A MAXIMUM OF FORTY (40) FEET CENTER TO CENTER.

EXISTING PERMANENT TRAFFIC CONTROL

1. ANY WORK DONE BY THE DEPARTMENT OF PUBLIC SERVICE, INCLUDING INSTALLATION, RELOCATION, REMOVAL AND/OR REPLACEMENT OF PERMANENT TRAFFIC CONTROL DEVICES AS A RESULT OF WORK DONE BY THE CONTRACTOR OR AS A RESULT OF NEGLIGENCE OF THE CONTRACTOR, SHALL BE AT THE CONTRACTORS' EXPENSE.

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

3. THE CONTRACTOR SHALL REPLACE ALL PAVEMENT MARKINGS, INCLUDING RAISED PAVEMENT MARKERS (RPM) SHOWN IN CONFLICT, REMOVED DUE TO CONSTRUCTION OR MAINTENANCE OF TRAFFIC SET UP, DESTROYED, OR RENDERED UNSERVICEABLE BY THE PROJECT ENGINEER OR THE PUBLIC SERVICE PAVEMENT MARKING MANAGER. ALL PAVEMENT MARKING MATERIALS SHALL BE REPLACED IN-LIKE KIND IF NOT SHOWN IN THE PLAN OR PERMIT INCLUDING RAISED PAVEMENT MARKERS. ALL PAVEMENT MARKINGS SHALL BE REPLACED IN FULL. NO PARTIAL LENGTH OR SECTIONS OF PAVEMENT MARKINGS SHALL BE REPLACED WITHOUT REMOVING THE ENTIRE MARKING BY USE OF THE WATER BLAST METHOD. REMOVAL BY ABRASIVE WHEEL GRINDING SHALL ONLY BE APPROVED BY THE PUBLIC SERVICE PAVEMENT MARKING MANAGER.

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

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

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

7. IF THE DEPARTMENT OF PUBLIC SERVICE IS TO INSTALL PERMANENT STRIPING, THE PROJECT ENGINEER SHALL BE NOTIFIED TO DIRECT APPROPRIATE PERSONNEL A MINIMUM OF TEN (10) WORKING DAYS PRIOR TO THE APPLICATION OF THE FINAL COURSE OF PAVEMENT.

8. AT ANY LOCATION WHERE THE CONTRACTOR DAMAGES DETECTORS AND/OR THEIR LEAD-IN CABLES THE CONTRACTOR SHALL REPLACE THEM. AT ANY LOCATION WHERE DETECTION IS CHANGED FROM MAG PROBE UNITS TO LOOPS, THE CONTRACTOR SHALL REPLACE THE PROBE LEAD-IN WITH LOOP LEAD-IN CABLE. ALL REPAIRS TO DETECTION SHALL BE COMPLETED WITHIN 21 DAYS FROM DAMAGE TO DETECTION ON A PER INTERSECTION BASIS. IF THE 21DAY REPAIR REQUIREMENT CANNOT BE SATISFIED AT ANY LOCATION WHERE THE CONTRACTOR DAMAGES DETECTORS AND/OR THEIR LEAD-IN CABLES, THE CONTRACTOR, AT THE DISCRETION OF SIGNAL OPERATIONS PERSONNEL, MAY BE REQUIRED TO INSTALL A VERSICAM FLEX CAMERA SYSTEM, A WAVETRONIX RADAR SYSTEM, OR TEMPORARY LOOP DETECTION. ANY CONTRACTOR FAILING TO COMPLY WITH THESE GUIDELINES SHALL BE SUBJECT TO PENALTY TO THE SUM OF $100.00 PER DAY FOR EACH DAY BEYOND THE 21 DAY REPAIR PERIOD ON A PER INTERSECTION BASIS, UNTIL CONDITIONS ARE MET TO THE SATISFACTION OF THE SIGNAL OPERATIONS PERSONNEL. THIS PENALTY DEDUCTION SHALL BE SPECIFIC FOR EACH SIGNALIZED INTERSECTION EFFECTED BY THIS PROJECT AND SEPARATE FROM ANY LIQUIDATED DAMAGES FOR THE PROJECT AS A WHOLE. THE WORK TO INSTALL THE DETECTION SHALL CONFORM TO THE CITY OF COLUMBUS STANDARD DRAWING 4300 AND THE CITY OF COLUMBUS CONSTRUCTION AND MATERIAL SPECIFICATIONS, LATEST EDITION, WITH THE FOLLOWING PROVISIONS:

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

   B. LOCATIONS OF THE REPLACEMENT DETECTION SHALL BE FIELD MARKED OR DIMENSIONED DRAWINGS SHALL BE SUBMITTED TO THE CONSTRUCTION SECTION BY DEPARTMENT OF PUBLIC SERVICE PERSONNEL. LOCATION OF FINAL PAVEMENT MARKINGS OR THE MARKINGS THEMSELVES SHALL BE CLEARLY INDICATED ON THE ASPHALT PRIOR TO DETECTOR LOCATIONS BEING MARKED. THE CONTRACTOR SHALL LAYOUT THE LOOPS ON THE PAVEMENT IF DRAWINGS ARE SUBMITTED. IF DRAWINGS HAVE NOT BEEN PROVIDED, CONTACT SIGNAL OPERATIONS PERSONNEL AT 614-645-0423 (CELL 614-419-4501) AT LEAST TWO WORKING DAYS PRIOR TO NEEDING THE LOCATION MARKED. IF UNABLE TO MAKE CONTACT THROUGH THE ABOVE NUMBERS, CALL 614-645-7393.

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

   D. EACH LOOP SHALL HAVE ITS OWN CONDUIT FROM EDGE OF PAVEMENT TO PULL BOX UNLESS SPECIFIED OTHERWISE BY THE DEPARTMENT OF PUBLIC SERVICE INSPECTOR.

   E. THE PULLBOX ASSEMBLY SHALL BE RATED AS MEDIUM TO HEAVY DUTY, TO BE INSTALLED IN CONCRETE WALKWAYS, AND SHALL HAVE ALL STAINLESS STEEL HARDWARE. THE PULLBOX COVER SHALL HAVE THE WORD "TRAFFIC" ON IT. THE COVER SHALL BE BOLTED TO THE BOX AND SHALL BE POLYMER CONCRETE. THE COVER PLUS HOUSING AS A UNIT SHALL BE RATED TO WITHSTAND A MINIMUM 20,000 LB. STATIC LOAD OVER A 10"X10" AREA AS PER ASTM C-857. THE BOX DEPTH SHALL BE 15 INCHES MINIMUM TO 30 INCHES MAXIMUM. IF THE PROJECT DOES NOT SPECIFY 725.06 POLYMER CONCRETE PULL BOXES, THE SUPPLIED ASSEMBLIES SHALL BE AS FOLLOWS: CDR SYSTEMS MODEL SA32-1015-18, OR SYNERTECH MODEL S1118B18FA. SIX (6) INCHES OF #57 AGGREGATE SHALL BE PLACED AT THE BOTTOM OF THE PULLBOX. NO CONDUIT SHALL PROTRUDE MORE THAN THREE (3) INCHES INSIDE THE PULLBOX. CONDUIT ELLS OR EXTENSIONS MAY BE USED TO ALIGN THE CONDUIT WITH THE HOUSING. THE COST FOR EXTENSIONS OR ELLS IF NEEDED SHALL BE INCIDENTAL TO THE PER UNIT PRICE.

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

   G. THE CONTRACTOR SHALL NOT MAKE ANY WIRING CONNECTIONS OR ADJUSTMENTS INSIDE THE CONTROL CABINET. WHEN SUCH CONNECTIONS ARE REQUIRED, THE CONTRACTOR SHALL NOTIFY THE TRAFFIC OPERATIONS SHOP 614-645-7393, MON.-FRI., 8 AM TO 4 PM, TO SCHEDULE CITY FORCES FOR MAKING THE ACTUAL CONNECTIONS. THE CONTRACTOR SHALL BE AVAILABLE AT THE AGREED TIME. THE CONTRACTOR WILL BE BILLED FOR ANY TIME THAT CITY FORCES ARE REQUIRED TO WAIT FOR THE CONTRACTORS' WORK TO BE COMPLETED.

   H. CONDUIT PLACED IN "RIGHT OF WAY" AREAS BEARING NO TRAFFIC FOR DETECTOR LEAD IN SHALL BE ITEM 725.051, CITY OF COLUMBUS CONSTRUCTION AND MATERIAL SPECIFICATIONS, LATEST EDITION. CONDUIT PLACED UNDER A ROADWAY OR IN AREAS THAT MAY BEAR TRAFFIC SHALL BE CONCRETE ENCASED (SIZES AND TYPE TO BE DETERMINED BY THE DEPARTMENT OF PUBLIC SERVICE'S REPRESENTATIVE. ALL CONDUITS SHALL BE PLACED AT A MINIMUM DEPTH OF 24".

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

   J. THE ITEMS AND ESTIMATED QUANTITIES FOR THE REPLACEMENT OF THE DEPARTMENT OF PUBLIC SERVICE'S DETECTION ITEMS SHALL BE INCLUDED IN THESE PLANS WHEN DIRECTED BY THE PLAN REVIEWER. THESE ESTIMATES ARE FOR THE PURPOSE OF BIDDING THE PROJECT. THE FOLLOWING IS A LIST OF THE ITEMS AND QUANTITIES PROJECTED FOR USE IN DETECTOR REPLACEMENT FOR THIS PROJECT:

ITEM	QUANTITY	UNIT	ITEM DESCRIPTION
202		SF	WALK REMOVED
608		SF	4" CONCRETE WALK
632		LF	CONDUIT RISER, 1 OR 2 INCH DIAMETER
625		LF	CONDUIT 1, 1-1/2, OR 2 INCH (AS PER PLAN)
625		LF	TRENCH
625		EA	PULLBOX, 12"x18", (AS PER PLAN)
632		EA	DETECTOR LOOP
632		LF	LOOP DETECTOR LEAD-IN CABLE
632		LF	LASH/UNLASH CABLE

   K. THE CONTRACTOR SHALL NOTIFY SIGNAL OPERATION PERSONNEL AT 614-645-0423 (CELL 614-419-4501) AFTER ALL LOOPS HAVE BEEN INSTALLED AT EACH INTERSECTION. IF UNABLE TO MAKE CONTACT THROUGH THE ABOVE NUMBER, CALL 614-645-7393. THE DEPARTMENT OF PUBLIC SERVICE SHALL INSPECT ALL SENSORS AND TEST AS NECESSARY. THE CONTRACTOR SHALL REPLACE ALL LOOPS NOT MEETING SPECIFICATIONS.

Table 6H-2. Meaning of Symbols on Typical Application Diagrams

	Arrow board		Shadow vehicle
	Arrow board support or trailer (shown facing down)		Sign (shown facing left)
	Changeable message sign or trailer		Surveyor
	Channelizing device		Temporary barrier
	Crash cushion		Temporary barrier with warning light
	Direction of temporary traffic detour		Traffic or pedestrian signal
	Direction of traffic		Truck-mounted attenuator
	Flagger		Type 3 barricade
	High-level warning device (Flag tree)		Warning light
	Longitudinal channelizing device		Work space
	Luminaire		Work Vehicle
	Pavement markings that should be removed for a long-term project		

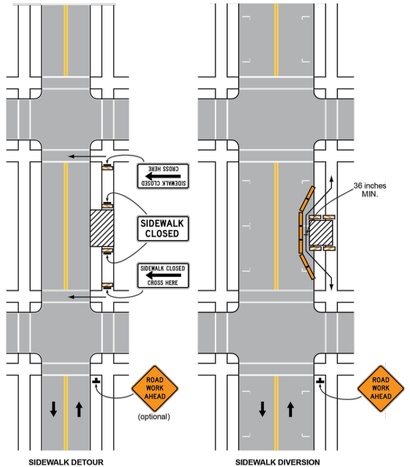
Table 6H-3. Meaning of Letter Codes on Typical Application Diagrams

Road Type	Distance Between Signs (Feet) **		
	A	B	C
Urban (low speed) *	100	100	100
Urban (high speed) *	350	350	350
Rural	500	500	500
Expressway / Freeway	1,000	1,500	2,640

* Speed category to be determined by highway agency.

** The column headings A, B, and C are the dimensions shown in Figures 6H-1 through 6H-46. The A dimension is the distance from the transition or point of restriction to the first sign. The B dimension is the distance between the first and second signs. The C dimension is the distance between the second and third signs. (The "first sign" is the sign in a three-sign series that is closest to the TTC zone. The "third sign" is the sign that is furthest upstream from the TTC zone.)

Figure 6H-28. Sidewalk Detour or Diversion (TA-28)



Typical Application 28

Note: See Tables 6H-2 and 6H-3 for the meaning of the symbols and/or letter codes used in this figure.

Notes for Figure 6H-28—Typical Application 28
Sidewalk Detour or Diversion

Standard:

1. **When crosswalks or other pedestrian facilities are closed or relocated, temporary facilities shall be detectable and shall include accessibility features consistent with the features present in the existing pedestrian facility.**

Guidance:

2. *Where high speeds are anticipated, a temporary traffic barrier and, if necessary, a crash cushion should be used to separate the temporary sidewalks from vehicular traffic.*
3. *Audible information devices should be considered where midblock closings and changed crosswalk areas cause inadequate communication to be provided to pedestrians who have visual disabilities.*

Option:

4. Street lighting may be considered.
5. Only the TTC devices related to pedestrians are shown. Other devices, such as lane closure signing or ROAD NARROWS signs, may be used to control vehicular traffic.
6. For nighttime closures, Type A Flashing warning lights may be used on barricades that support signs and close sidewalks.
7. Type C Steady-Burn or Type D 360-degree Steady-Burn warning lights may be used on channelizing devices separating the temporary sidewalks from vehicular traffic flow.
8. Signs, such as KEEP RIGHT (LEFT), may be placed along a temporary sidewalk to guide or direct pedestrians.

Notes for Figure 6H-29—Typical Application 29
Crosswalk Closures and Pedestrian Detours

Standard:

1. **When crosswalks or other pedestrian facilities are closed or relocated, temporary facilities shall be detectable and shall include accessibility features consistent with the features present in the existing pedestrian facility.**
2. **Curb parking shall be prohibited for at least 50 feet in advance of the midblock crosswalk.**

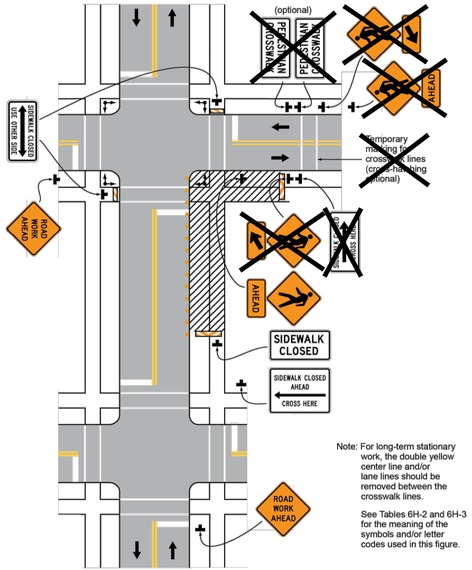
Guidance:

3. *Audible information devices should be considered where midblock closings and changed crosswalk areas cause inadequate communication to be provided to pedestrians who have visual disabilities.*
4. *Pedestrian traffic signal displays controlling closed crosswalks should be covered or deactivated.*

Option:

5. Street lighting may be considered.
6. Only the TTC devices related to pedestrians are shown. Other devices, such as lane closure signing or ROAD NARROWS signs, may be used to control vehicular traffic.
7. For nighttime closures, Type A Flashing warning lights may be used on barricades supporting signs and closing sidewalks.
8. Type C Steady-Burn or Type D 360-degree Steady-Burn warning lights may be used on channelizing devices separating the work space from vehicular traffic.
9. In order to maintain the systematic use of the fluorescent yellow-green background for pedestrian, bicycle, and school warning signs in a jurisdiction, the fluorescent yellow-green background for pedestrian, bicycle, and school warning signs may be used in TTC zones.

Figure 6H-29. Crosswalk Closures and Pedestrian Detours (TA-29)



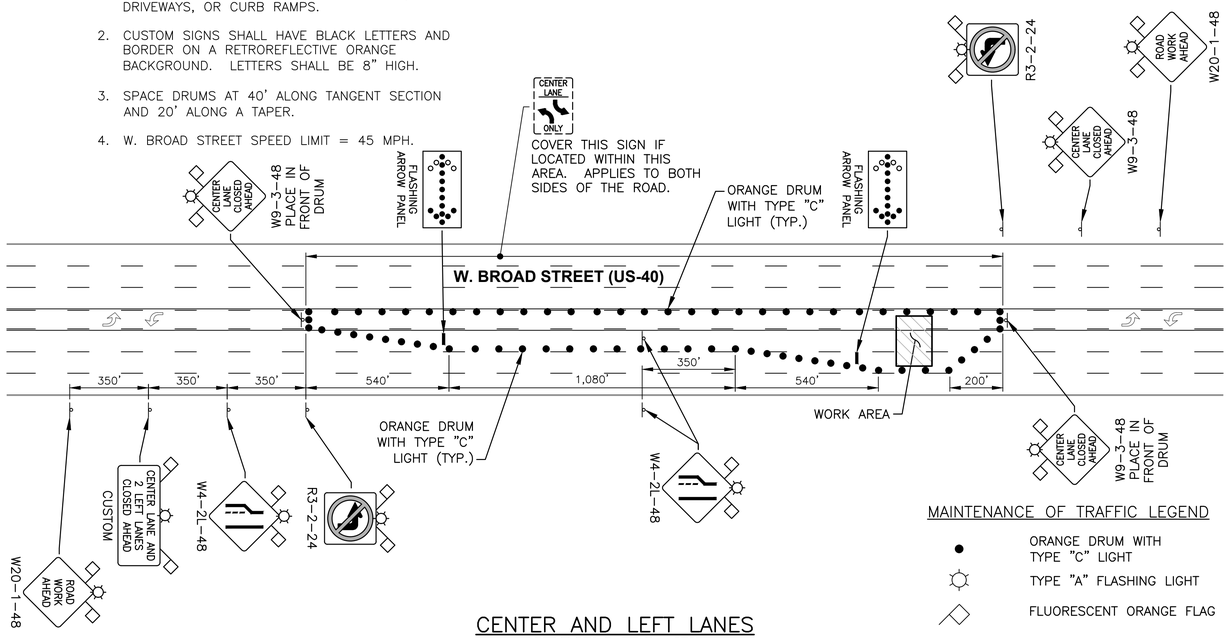
Typical Application 29

Note: For long-term stationary work, the double yellow center line and/or lane lines should be removed between the crosswalk lines.

See Tables 6H-2 and 6H-3 for the meaning of the symbols and/or letter codes used in this figure.

NOTES

1. ADJUST THE LOCATION OF SIGNS AS NEEDED SO THAT THEY ARE NOT LOCATED IN STREETS, DRIVEWAYS, OR CURB RAMPS.
2. CUSTOM SIGNS SHALL HAVE BLACK LETTERS AND BORDER ON A RETROREFLECTIVE ORANGE BACKGROUND. LETTERS SHALL BE 8" HIGH.
3. SPACE DRUMS AT 40' ALONG TANGENT SECTION AND 20' ALONG A TAPER.
4. W. BROAD STREET SPEED LIMIT = 45 MPH.



CENTER AND LEFT LANES CLOSURE DETAIL

NOT TO SCALE

		CITY OF COLUMBUS DEPARTMENT OF PUBLIC UTILITIES DIVISION OF WATER			MAINTENANCE OF TRAFFIC DETAILS	DIVISION OF WATER CONTRACT NO. 2128 CAPITAL IMPROVEMENT PROJECT NO. 690236-100104 EDSEL AVENUE AREA WATER LINE IMPROVEMENTS	SCALE NOT TO SCALE	19-083	48 / XX

Maintenance of Traffic Table for Multiple Locations

EXISTING CONDITIONS								MAINTENNACE OF TRAFFIC						
STREET NAME	WORK LIMITS	SIGNALIZED INTERSECTIONS	PAVEMENT WIDTH	LANE WIDTH(S)	ON STREET PARKING	COTA BUS ROUTE	TRAFFIC PATTERN	TRAFFIC PATTERN	LEO REQUIRED	DETAIL NAME	DETAIL PAGE #	WEEKDAY WORK HOURS	WEEKEND WORK HOURS	NOTES
FRANK ROAD	HARRISBURG PIKE (US-62) to 310' East of WESTFIELD ROAD	Y	48' (60')	12'	N	N	2W-4L (2W-5L at HARRISBURG PIKE)	2W-2L	N	"LANE CLOSURES", STD DWG 1510, SHEETS 4 and 5	----	9AM-4PM	7AM-7PM SAT & SUN	Maximum work area shall be 500' long. Move maintennace of traffic accordingly.
FRANK ROAD	at HARRISBURG PIKE (US-62)	N	60'	12'	N	N	2W-5L	2W-2L	Y	"LANE CLOSURES", STD DWG 1510, SHEET 5	----	9AM-4PM	7AM-7PM SAT & SUN	Maintenance of traffic to be removed during non-working hours.
BIG RUN BLUFFS BOULEVARD (PRIVATE)	at FRANK ROAD	N	44' (blvd.)	18'	N	N	2W-2L	Big Run Bluffs Boulevard is temporarily closed	N	"STREET CLOSURES", STD DWG 1540, SHEET 4	----	9AM-4PM	7AM-7PM SAT & SUN	
WESTFIELD ROAD	at FRANK ROAD	N	23'	11.5'	Y	N	2W-2L	Westfield Road is temporarily closed in Phase 2	N	1. STD DWG 1510, SHEET 4 2. STD DWG 1510, SHEET 4 and STD DWG 1540, SHEET 6 combined	----	9AM-4PM	7AM-7PM SAT & SUN	Phase #1 will redirect eastbound traffic. Phase #2 will redirect westbound traffic. Maintenance of traffic to be removed during non-working hours.
FRANK ROAD	60' EAST OF WESTBROOK DRIVE	N	48'	12'	N	N	2W-4L	2W-2L	N	"LANE CLOSURES", STD DWG 1510, SHEET 5	----	9AM-4PM	7AM-7PM SAT & SUN	Maintenance of traffic to be removed during non-working hours.
EDSEL AVENUE	KOEBEL ROAD to YOLANDA DRIVE	N	23'	11.5'	Y	N	2W-2L	2W-1L	N	"FLAGGING OPERATION", STD DWG 1550, SHEET 1	----	9AM-4PM	----	Maintenance of traffic to be removed during non-working hours.
COE DRIVE	at EDSEL AVENUE	N	24'	12'	Y	N	2W-2L	Coe Drive and Edsel Avenue are temporarily closed	N	"STREET CLOSURES", STD DWG 1540, SHEET 9	----	9AM-4PM	----	Maintenance of traffic to be removed during non-working hours.
EDSEL COURT	at EDSEL AVENUE	N	24'	12'	Y	N	2W-2L	Edsel Court and Edsel Avenue are temporarily closed	N	"STREET CLOSURES", STD DWG 1540, SHEET 9	----	9AM-4PM	----	Maintenance of traffic to be removed during non-working hours.
EDSEL COURT	EDSEL AVENUE to Terminus	N	24'	12'	Y	N	2W-2L	Edsel Court is temporarily closed	N	"STREET CLOSURES", STD DWG 1540, SHEET 2	----	9AM-4PM	----	Residents shall be notified of closure 72 hours in advance. Parking shall be made available on Edsel Avenue. Maintenance of traffic to be removed during non-working hours.
PAMELA DRIVE	EVERGREEN ROAD to Terminus	N	26'	13'	Y	N	2W-2L	Pamela Drive is temporarily closed	N	"STREET CLOSURES", STD DWG 1540, SHEET 2	----	9AM-4PM	----	Residents shall be notified of closure 72 hours in advance. Parking shall be made available on Evergreen Road. Maintenance of traffic to be removed during non-working hours.
NUWAY ROAD (court)	NUWAY ROAD to Terminus	N	26'	13'	Y	N	2W-2L	Nuway Road (court) is temporarily closed	N	"STREET CLOSURES", STD DWG 1540, SHEET 2	----	9AM-4PM	----	Residents shall be notified of closure 72 hours in advance. Parking shall be made available on Nuway Road. Maintenance of traffic to be removed during non-working hours.
MARILLA ROAD	S. HIGH STREET (US-23) to S. 8TH STREET	N	19'	9.5'	Y	N	2W-2L	2W-1L	N	"FLAGGING OPERATION", STD DWG 1550, SHEET 1	----	9AM-4PM	----	Maintenance of traffic to be removed during non-working hours.
S. HIGH STREET (US-23)	at MARILLA ROAD	N	60'	12'	N	Y	2W-5L	2W-2L	N	1. STD DWG 1510, SHEET 5 2. STD DWG 1510, SHEET 5 and STD DWG 1540, SHEET 6 combined	----	9AM-4PM	7AM-7PM SAT & SUN	Phase #1 will redirect southbound traffic. Phase #2 will redirect northbound traffic. Maintenance of traffic to be removed during non-working hours.
S. 6TH STREET	at MARILLA ROAD	N	20	10'	Y	N	2W-2L	S. 6th Street is temporarily closed	N	"STREET CLOSURES", STD DWG 1540, SHEET 4	----	9AM-4PM	----	Maintenance of traffic to be removed during non-working hours.

Maintenance of Traffic Table for Multiple Locations

EXISTING CONDITIONS								MAINTENNACE OF TRAFFIC						
HARLAND COURT	HARLAND DRIVE to Terminus	N	26'	13'	Y	N	2W-2L	Harland Court is temporarily closed	N	"STREET CLOSURES", STD DWG 1540, SHEET 2	----	9AM-4PM	----	Residents shall be notified of closure 72 hours in advance. Parking shall be made available on Harland Drive. Maintenance of traffic to be removed during non-working hours.
W. BROAD STREET (US-40)	935' East of GEORGESVILLE ROAD to 460' East of N. WILSON ROAD	Y	78'	11'	N	Y	2W-7L	2W-5L 3 lanes westbound 1 lane eastbound	N	"CLOSING RIGHT LANES", ODOT SCD MT-95.31, SHEETS 2 and 3	----	9AM-4PM	7AM-7PM SAT & SUN	Maximum work area shall be 500' long. Move maintennace of traffic accordingly.
VOITS DRIVE	at W. BROAD STREET (US-40)	N	28'	14'	Y	N	2W-2L	Voits Drivels temporarily closed	N	"STREET CLOSURES", STD DWG 1540, SHEET 4	----	9AM-4PM	7AM-7PM SAT & SUN	
COOLIDGE AVENUE	at W. BROAD STREET (US-40)	N	23'	11.5'	Y	N	2W-2L	Coolidge Avenue is temporarily closed	N	"STREET CLOSURES", STD DWG 1540, SHEET 4	----	9AM-4PM	7AM-7PM SAT & SUN	
FLORENCE AVENUE	at W. BROAD STREET (US-40)	N	29'	14.5'	Y	N	2W-2L	Florence Avenue is temporarily closed	N	"STREET CLOSURES", STD DWG 1540, SHEET 4	----	9AM-4PM	7AM-7PM SAT & SUN	
BROADLAWN AVENUE	at W. BROAD STREET (US-40)	Y	27'	13.5'	Y	N	2W-2L	Broadlawn Avenue is temporarily closed	N	"STREET CLOSURES", STD DWG 1540, SHEET 4	----	9AM-4PM	7AM-7PM SAT & SUN	
VOLNEY AVENUE	at W. BROAD STREET (US-40)	N	30'	15'	Y	N	2W-2L	Volney Avenue is temporarily closed	N	"STREET CLOSURES", STD DWG 1540, SHEET 4	----	9AM-4PM	7AM-7PM SAT & SUN	
N. WILSON ROAD	at W. BROAD STREET (US-40)	Y	82' (north) 80' (south)	82' (north) 11' (south)	N	Y (north) N (south)	2W-6L (north) 2W-7L (south)	----	Y	1. STD DWG 1520, SHEET 6 2. STD DWG 1520, SHEET 7 3. STD DWG 1520, SHEET 1 4. STD DWG 1520, SHEET 2	----	9AM-4PM	7AM-7PM SAT & SUN	INSTALLING WATER LINE ACROSS N. WILSON ROAD Phases #1 and #2 will redirect southbound traffic. Phases #3 and #4 will redirect northbound traffic. Maintenance of traffic to be removed during non-working hours.
								----	Y	1. ODOT SCD MT-95.31, SHEETS 2 and 3 2. CENTER AND LEFT LANES CLOSURE DETAIL 3. CENTER AND LEFT LANES CLOSURE DETAIL 4. ODOT SCD MT-95.31, SHEETS 2 and 3	----	9AM-4PM	7AM-7PM SAT & SUN	INSTALLING WATER LINE ACROSS W. BROAD STREET (US-40) Phases #1 and #2 will redirect eastbound traffic. Phases #3 and #4 will redirect westbound traffic. Maintenance of traffic to be removed during non-working hours.
Commercial Drives (south side)	at W. BROAD STREET (US-40)	----	----	----	----	----	----	----	----	----	----	9AM-4PM	7AM-7PM SAT & SUN	Only one commercial drive can be closed at a time.
W. BROAD STREET (US-40)	Mid-block 6" and 8" Water Line Crossings (3 Locations)	Y	78'	11'	N	Y	2W-7L	----	N	1. CENTER AND LEFT LANES CLOSURE DETAIL 2. CENTER AND LEFT LANES CLOSURE DETAIL 3. ODOT SCD MT-95.31, SHEETS 2 and 3	CENTER AND LEFT LANES CLOSURE DETAIL is on Sheet 50	9AM-4PM	7AM-7PM SAT & SUN	Phase #1 will redirect eastbound traffic. Phases #2 and #3 will redirect westbound traffic. Maintenance of traffic to be removed during non-working hours.