

7/12/2012 12:03:20 PM - S:\03-PROJECTS\FEDERAL\START REGION 3 (VI)\03 - PROJECTS\01 - ACTIVE\01 - REMOVAL-AREA-PLANNING\T601-20-07-001 - BAGHURST DR REMOVAL\FIGURES-GRAPHICS\SHEET FILES\CIVIL\G-1 PHASE 2.DWG - PIAZZA, LIZ



3



N.T.S.

LIST OF DRAWINGS

LIST OF DRAWINGS

[illegible]

USEPA UPPER SALFORD TOWNSHIP, MONTGOMERY CO., PA BAGHURST ALLEY SITE NEW WATER MAIN COVER SHEET	
PROJ:	103I903401001
DESN:	EJP
DRWN:	JEC
CHKD:	EJP

C-100



TETRA TECH

240 CONTINENTAL DRIVE, SUITE 200
NEWARK, DE 19713
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LEGEND			
CONCRETE MONUMENT FOUND		OVERHEAD WIRES	
IRON PIN FOUND		UNDERGROUND WIRES	
SITE BENCHMARK		STREET LIGHT	
PROPERTY LINE		UTILITY POLE	
LEGAL RIGHT OF WAY		UTILITY GUY	
EASEMENT LINE		ELECTRIC BOX	
STREAM		ELECTRIC METER	
BUFFERS		ELECTRIC MANHOLE	
CENTERLINE OF ROAD		TRANSFORMER	
EDGE OF PAVE/DRIVE		TV BOX	
EDGE OF GRAVEL		TELEPHONE BOX	
FENCE LINE		TELEPHONE MANHOLE	
CONTOURS		FLAG POLE	
SPOT ELEVATION		BOLLARD	
WOOD/BRUSH LINE		PERK HOLE	
TREES		PIPE CAP	
SOILS AND TEXT		SIGN1	
SANITARY SEWER CLEANOUT		SIGN2	
SANITARY SEWER MANHOLE		SIGN3	
SANITARY SEWER VALVE		WETLAND FLAG	
STORM SEWER		MAILBOX	
M&C TYPE INLETS		GUIDERAIL	
ENDWALL		PROPOSED EASEMENT LINE	
STORM SEWER MANHOLE		NEW BOUNDARY CORNER	
WATER VALVE		NEW WATER MAIN	
WATER SERVICE		NEW WATER SERVICE LINE	
WATER METER		NEW LATERAL BALL VALVE AND VALVE BOX	
WATER MANHOLE		NEW FIRE HYDRANT	
WATER WELL		NEW WATER MAIN GATE VALVE AND VALVE BOX	
MONITORING WELL		BORINGS	
EXISTING WATER SERVICE LINE		SLANTED TEXT DENOTES EXISTING FEATURE	
EXISTING WATER MAIN			

PURPOSE NOTE:

- THE PURPOSE OF THIS PLAN SET IT TO PROVIDE THE INFORMATION NEEDED FOR CONSTRUCTION OF A WATERLINE EXTENSION FROM BAVINGTON ROAD TO THE NEW WATER DISTRIBUTION PLANT OFF OF SALFORD STATION ROAD. THIS PLAN INCLUDES PROFILES AND DETAILS FOR THE CONNECTION TO THE EXISTING WATERLINE IN BAVINGTON ROAD, THE INSTALLATION ACROSS THE PERKIOMENT CREEK AND THEN CONNECTION TO THE WATERLINE AT THE DISTRIBUTION PLANT.

GENERAL SURVEY NOTES:

- BOUNDARY AND TOPOGRAPHY PROVIDED BY BURSICH ASSOCIATES, INC. ON NOVEMBER 15, 2011. THE SOLE PURPOSE OF THESE PLANS IS TO DEPICT THE EXISTING CONDITIONS WITHIN THE BAGHURST ALLEY COMMUNITY. THE BOUNDARY LINES AS SHOWN ARE FROM DEEDS & PLANS OF RECORD AND ARE NOT TO BE CONSTRUCTED AS THE RESULT OF A BOUNDARY SURVEY.
- VERTICAL DATUM: NAVD88
- REFERENCE PLANS: "PLAN OF SUBDIVISION MADE FOR J. GORDON BURKE AND DAVID YOUELLS", BY URWILER AND WALTER, DATED AUGUST 14, 1973, LAST REVISED OCTOBER 1, 1973, RECORDED IN PLAN BOOK B-24 PAGE 48.
- THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.
- ACT 181 SERIAL No. 20112971852
COMCAST CABLE COMMUNICATIONS INC CLEAR - NO FACILITIES
NORTH PENN WATER AUTHORITY CLEAR - NO FACILITIES
PECO ENERGY CLEAR - NO FACILITIES
VERIZON PENNSYLVANIA CLEAR - NO FACILITIES

GENERAL WATER LINE INSTALLATION NOTES:

- WATER MAIN INSTALLATION:
 - WATER MAIN INSTALLED UNDER A CREEK BED, A GAS MAIN OR IN CORROSIVE SOIL WILL REQUIRE EACH SECTION OF WATER MAIN TO BE ENCASED WITH POLYETHYLENE FILM. THE POLYETHYLENE FILM SHOULD BE FITTED WITH MINIMUM SPACE BETWEEN THE FILM AND THE PIPE. OVERLAPS AND ENDS SHOULD BE SECURED WITH ADHESIVE TAPE OR PLASTIC TIE STRAPS.
 - PIPE STOCKPILED FOR MORE THAN 24 HOURS ON THE JOB SITE WILL HAVE THE BELLS AND SPIGOTS WRAPPED WITH A POLYETHYLENE FILM AND/OR TARP TO PREVENT CONTAMINATION, UNLESS FIELD CONDITIONS DICTATE IMMEDIATE WRAPPING.
- DUCTILE IRON PIPE AND FITTINGS:
 - DUCTILE IRON PIPE SHALL BE MANUFACTURED IN ACCORDANCE WITH ANSI A21.51 (AWWA C151) AMERICAN STANDARD FOR DUCTILE IRON PIPE. PIPE SHALL BE CLASS 52 THICKNESS IN ACCORDANCE WITH ANSI A21.51 (AWWA C151).
 - ALL DUCTILE IRON PIPE AND FITTINGS SHALL BE CEMENT LINED AND COATED OUTSIDE WITH BITUMINOUS SEAL COAT IN ACCORDANCE WITH ANSI A21.4 (AWWA C104) OR EPOXY COATED.
 - THE FITTINGS SHALL BE SHORT BODY MECHANICAL JOINT FITTINGS AND SHALL CONFORM TO AWWA 153SSB EXCEPT WHERE DETAILED OTHERWISE ON THE DRAWINGS. ALL MECHANICAL JOINT FITTINGS SHALL BE SECURED WITH MEGA LUGS.
 - REQUIRED FIELD LOCK USAGE WILL BE DETERMINED BY FIELD INSPECTOR.
- VALVES AND VALVE BOXES:
 - ALL GATE VALVES REQUIRED FOR 4" THRU 16" DIAMETER MAIN SHALL BE EITHER OR APPROVED EQUAL:
 - MUELLER #H-615 AND T-2360-16D GATE VALVE MANUFACTURED BY MUELLER CO. DECATUR, ILLINOIS.
 - U.S. PIPE T-9 AND METRO SEAL 250 MANUFACTURED BY U.S. PIPE AND FOUNDRY CO., BIRMINGHAM, AL.
 - KENNEDY KENSEAL III RESILIENT WEDGE VALVE MANUFACTURED BY KENNEDY VALVE, ELMIRA, NY.
 - AMERICAN FLOW CONTROL SERIES 2500 RESILIENT WEDGE VALVE MANUFACTURED BY AFC, LATHAM NY.
 - VALVES SHALL BE MOUNTED VERTICALLY, EXCEPT IF OTHERWISE NOTED ON THE DRAWINGS AND SHALL HAVE MECHANICAL JOINT ENDS.
 - ALL VALVES SHALL OPEN BY TURNING COUNTERCLOCKWISE AND SHALL HAVE A STANDARD 2" OPERATING NUT.
 - ALL BURIED VALVES SHALL BE FURNISHED WITH A CAST IRON VALVE BOX. ALL VALVE BOXES SHALL BE EITHER:
 - BUFFALO TYPE-TWO (2) PIECE SCREW TYPE 5-1/4" SHAFT.
 - TYLER SERIES 6850, MANUFACTURED BY TYLER PIPE COMPANY.
 - VALVE BOXES SHALL BE TWO-PIECE, SCREW TYPE INSTALLED OVER THE BONNET AND OPERATING NUT. VALVE BOXES SHALL BE OF SUFFICIENT LENGTH TO REACH THE SURFACE OF THE GROUND BUT NOT EXTEND ABOVE THE GROUND SURFACE. VALVE NUT EXTENSIONS SHALL BE INSTALLED AS NECESSARY TO INSURE THE VALVE CAN BE TURNED FROM GROUND LEVEL WITH A 6' LONG VALVE NUT KEY WRENCH.
 - DEVELOPERS AND THEIR CONTRACTORS SHALL BE RESPONSIBLE FOR PROPER INSTALLATION AND MAINTENANCE OF VALVE BOXES. VALVE BOXES SHALL BE IN A VERTICAL OPERABLE CONDITION. ALL BROKEN, BURIED OR FILLED VALVE BOXES WILL BE DUG OUT AND REPAIRED AT THEIR EXPENSE.
- FIRE HYDRANTS
 - ALL FIRE HYDRANTS SHALL BE EITHER
 - MUELLER CENTURION 5 1/2-INCH AWWA TYPE FIRE HYDRANT MANUFACTURED BY MUELLER CO, DECATUR, ILLINOIS.
 - KENNEDY K-810, 5 1/2-INCH AWWA TYPE FIRE HYDRANT MANUFACTURED BY KENNEDY VALVE, ELMIRA, NEW YORK.
 - ALL FIRE HYDRANTS SHALL HAVE:
 - 8-INCH MECHANICAL JOINT INLET CONNECTION
 - ONE (1) 4 1/2-INCH STEAMER NOZZLE
 - TWO (2) 2 1/2-INCH HOSE NOZZLE
 - OPEN LEFT HYDRANT OPERATING & NOZZLE CAP NUTS; FIRE HYDRANT STEAMER AND HOSE THREADS TO BE NATIONAL STANDARD OR NORTH PENN THREADS AS NOTED ON DRAWING.
 - NON-METERED WATER FROM HYDRANTS MAY NOT BE USED FOR ANY PURPOSE BY THE DEVELOPER OR THE CONTRACTOR. METERS MAY BE OBTAINED BY CONTACTED NPWA'S CUSTOMER SERVICE DEPARTMENT BETWEEN APRIL 1ST AND NOVEMBER 1ST. UNAUTHORIZED USE OF WATER FROM HYDRANTS IS SUBJECT TO CRIMINAL CHARGES.
- CHLORINE DOSAGES:
65% TABLETS

DIAMETER OF PIPE IN INCHES	2	3	4	6	8	10	12	16
NO. OF 65% Ca(Ocl) ₂ TABLETS/PIPE	1	1	1	1	2	3	4	6

 - TABLETS WILL BE ATTACHED WITH A FDA APPROVED FOOD GRADE ADHESIVE (POLY GRIP) IN EACH PIECE OF PIPE INSTALLED
 - CALCIUM HYPO CHLORITE CONFORMING TO NSI/AWWA B300 IS AVAILABLE IN 5-g TABLETS, AND CONTAINS APPROX. 65 PERCENT CHLORINE BY WEIGHT.

- TRAFFIC CONTROL:
 - TRAFFIC CONTROL ON ALL STATE, TOWNSHIP AND BOROUGH ROADWAYS WILL BE IN ACCORDANCE WITH PENNDOT SPECIFICATIONS; PUBLICATION 203, FIG. 10A & 10B.
 - ROADWAY RIGHT OF WAY RESTORATION WILL BE IN ACCORDANCE WITH TOWNSHIP AND BOROUGH SPECIFICATION ON LOCAL MUNICIPALLY MAINTAINED ROADWAYS.
- TAPS:
 - ALL SERVICE TRENCHES ARE REQUIRED TO HAVE 2A MODIFIED STONE BACKFILL.
 - ALL TAPS ARE INSTALLED BY CONTRACTOR.
 - SERVICES WILL BE INSTALLED AT THE LOCATION DETERMINED BY DEVELOPER.
 - SERVICE TAPS WILL BE INSTALLED ONLY WHEN THE FOLLOWING REQUIREMENTS ARE MET:
 - A PRESSURE TEST WITH A MINIMUM PRESSURE OF 150 PSI FOR FOUR (4) HOURS WITHOUT LEAKS, CONDUCTED BY THE CONTRACTOR AND WITNESSED BY WESTON.
 - A BACTERIA TEST IS TAKEN AFTER THE LINES ARE FLUSHED WITH RESIDUAL CHLORINE OF 1.0 PPM OR LESS, CONDUCTED BY WESTON.
 - CURB BOXES WILL BE MAINTAINED IN A VERTICAL OPERABLE CONDITION. IT IS THE CONTRACTORS RESPONSIBILITY TO REPAIR, REPLACE AND RESTORE ALL DAMAGED, DESTROYED OR BURIED CURB BOXES.
 - ALL BRASS CORPORATIONS & CURB STOPS SHALL BE A COMPRESSION TYPE MEETING THE STANDARD MUELLER #B-25008 & MUELLER #B25209 WITH PRESSURE RATING OF 300 PSI.
 - CURB BOXES WILL BE TELESOPING TYPE WITH PENTAGON PLUG IN CENTER OF LID. RISER PIPE WILL BE 1" DIAMETER TO ACCOMMODATE THE STAINLESS STEEL CURB ROD.
 - SERVICE LINES SHALL BE TYPE "K" COPPER.
- TAPPING VALVES:

TAPPING VALVES SHALL BE IN ACCORDANCE WITH AWWA C500, LATEST REVISION. AFFIDAVIT FROM MANUFACTURER REQUIRED CERTIFYING THAT THE VALVES FURNISHED COMPLY WITH ALL APPLICABLE PROVISIONS OF AWWA C500. FLANGED VALVE ENDS - INLET FLANGE SHALL BE CLASS 125 AND THE OUTLET FLANGE SHALL BE MECHANICAL JOINT. COMPANION FLANGES SHALL BE MADE FROM A CORROSION-RESISTANT MATERIAL AND ALL MECHANICAL JOINT BOLTS AND NUTS SHALL BE COR-10. STEM SEAL SHALL BE O-RING TYPE. EPOXY-COATED RESILIENT WEDGE GATE VALVES SHALL BE MUELLER TYPE H-667, H-642, H-541 OR APPROVED EQUAL. ALL VALVES SHALL BE OF DOMESTIC MANUFACTURE.
- TAPPING SLEEVES:

4" - 24" STAINLESS STEEL TAPPING SLEEVES SPECIFICATION

 - ALL TAPPING SLEEVES SHALL BE THE SPLIT SLEEVE, DROP-IN BOLT DESIGN. ONCE INSERTED THE BOLTS SHALL BE 'CAPTURED' TO PREVENT THEM FROM SPINNING DURING TIGHTENING. THE SLEEVE DESIGN SHALL ALLOW THE BOLTS TO BE REVERSED TO EASE INSTALLATION.
 - THE TAPPING SLEEVE SHELL SHALL BE FULL BODIED AND MANUFACTURED OF 304L STAINLESS STEEL TO MINIMIZE THE POTENTIAL FOR CARBIDE PRECIPITATION CORROSION.
 - THE TAPPING SLEEVE OUTLET SHALL BE AT LEAST 12 GAUGE MATERIAL AND 1/2" OVERSIZED TO ALLOW THE USE OF A FULL SIZE SHELL CUTTER. THE OUTLET SHALL BE PROVIDED WITH A 3/4" NPT TEST PLUG WITH A SQUARE HEAD FOR QUICK AND EASY REMOVAL. THE PLUG SHALL BE COMPOSED OF BRASS.
 - THE TAPPING SLEEVE SHALL HAVE A CLASS 125 OUTLET FLANGE WITH DRILLING AND DIMENSIONS THAT FULLY COMPLY WITH ANSI B16.1 THE OUTLET SHALL ALSO HAVE A MACHINED RECESS TO MATCH THE MACHINED PROJECTIONS ON STANDARD TAPPING VALVES TO ASSURE CORRECT ALIGNMENT IN ACCORDANCE WITH MSS-SP 60. THE FLANGE MATERIAL SHALL BE 304 STAINLESS.
 - ALL 10 INCH AND LARGER SLEEVES SHALL HAVE AN ANTI-EXTRUSION RING WELDED TO EACH END OF THE SLEEVE BODY IN ORDER TO PREVENT THE GASKET FROM COLD-FLOWING PAST THE SLEEVE BODY ENDS.
 - THE TAPPING SLEEVE SHALL HAVE A RATED WORKING PRESSURE OF 250 PSIG IN THE SIZES 4" - 12" AND 200 PSIG IN SIZES 14" - 24".
 - THE TAPPING SLEEVE SHALL HAVE A COMPLETE CIRCLE GASKET ON THE INTERIOR OF THE SHELL. THE GASKET SHALL BE COMPOSED OF NBR (NITRILE) VIRGIN RUBBER AND BE OF THE WAFFLE DESIGN. THE SHELL GASKET SHALL BE INTEGRAL AND PROVIDE A COMPLETE 360° SEAL. THE OUTLET GASKET SHALL BE PROVIDED WITH A MINIMUM OF TWO CONCENTRIC RAISED SURFACES TO MAXIMIZE SEALING ON THE PIPE SURFACE.
 - THE TAPPING SLEEVE BOLTS, NUTS, AND WASHERS SHALL BE TYPE 304 STAINLESS STEEL. THE NUTS SHALL BE OF THE HEAVY HEX TYPE. THE BOLTS SHALL BE ROLLED THREAD, DROP-IN STYLE, COATED WITH AN ANTI-GALLING COMPOUND.
 - THE TAPPING SLEEVE SHALL HAVE AN INTEGRAL GAP BRIDGING THAT ELIMINATES SEPERATE GAP BRIDGES AND REDUCES DEFORMATION OF THE BRIDGE UNDER HIGH TORQUES ON SLEEVES UP TO 12". TAPPING SLEEVES IN LARGER SIZES SHALL HAVE GAP BRIDGES.
 - THE TAPPING SLEEVE WELDS SHALL BE PASSIVATED, IN ADDITION TO THE ENTIRE SLEEVE, TO MAINTAIN OPTIMUM CORROSION RESISTANCE, IN ACCORDANCE WITH ASTM A380.
 - THE TAPPING SLEEVES SHALL BE MUELLER H304 OR APPROVED EQUAL.



BY

DATE

MARK

DESCRIPTION

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4/23/21

5/10/21

7/9/21

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USEFA

UPPER SALFORD TOWNSHIP, MONTGOMERY CO. PA

BAGHURST ALLEY SITE

NEW WATER MAIN

PHASE 2

NOTES AND LEGEND PLAN

PROJ:

DESIGN:

DRWN:

CHKD:

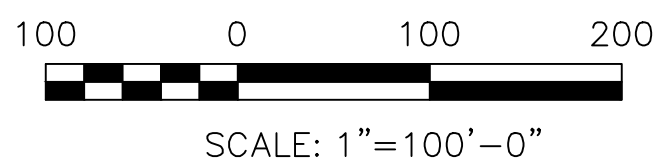
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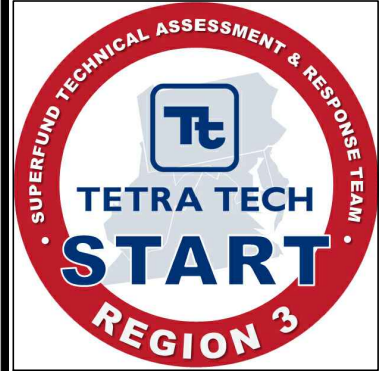
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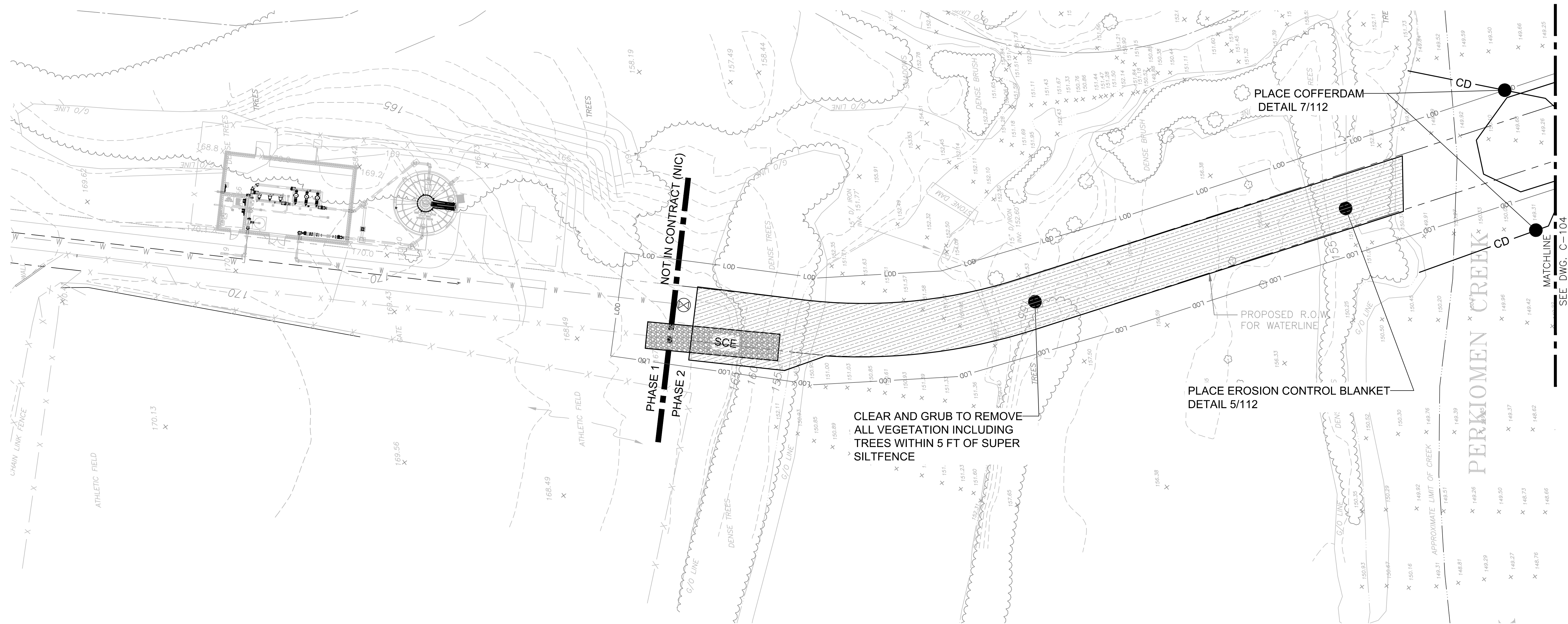
DRAWING C-104 & C-106

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US EPA
UPPER SALFORD TOWNSHIP, MONTGOMERY CO, PA
BAGHURST ALLEY SITE
NEW WATER MAIN
PHASE 2
OVERALL INDEX PLAN

C-102



PLAN
SCALE: 1"=20'-0"

- NOTES:**
1. FOR LEGEND AND NOTES SEE DRAWING C-101.
 2. FOR WATERLINE ROCK PROFILES SEE DRAWINGS C-107 TO C-109
 3. FOR EROSION AND SEDIMENT CONTROL PLANS, NOTES AND DETAILS SEE DRAWINGS C-111 TO C-112



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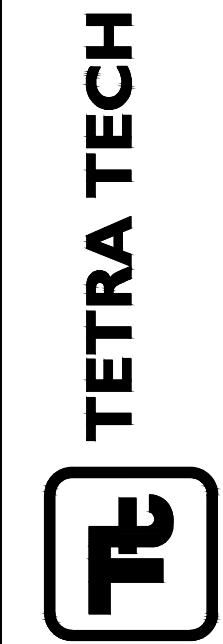


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	0	5/10/21	90% DESIGN REVIEW SUBMISSION	
	0	7/9/21	PERMIT SUBMISSION	

USEPA UPPER SALFORD TOWNSHIP, MONTGOMERY CO, PA	PROJECT: 1031903401001	DATE: 10/1/2010
BAGHURST ALLEY SITE NEW WATER MAIN	DESIGN: EJP	DATE: 10/1/2010
PHASE 2	DRAWN: JEC	DATE: 10/1/2010
EROSION & SEDIMENT CONTROL - DEMOLITION PLAN	CHECKED: JEC	DATE: 10/1/2010



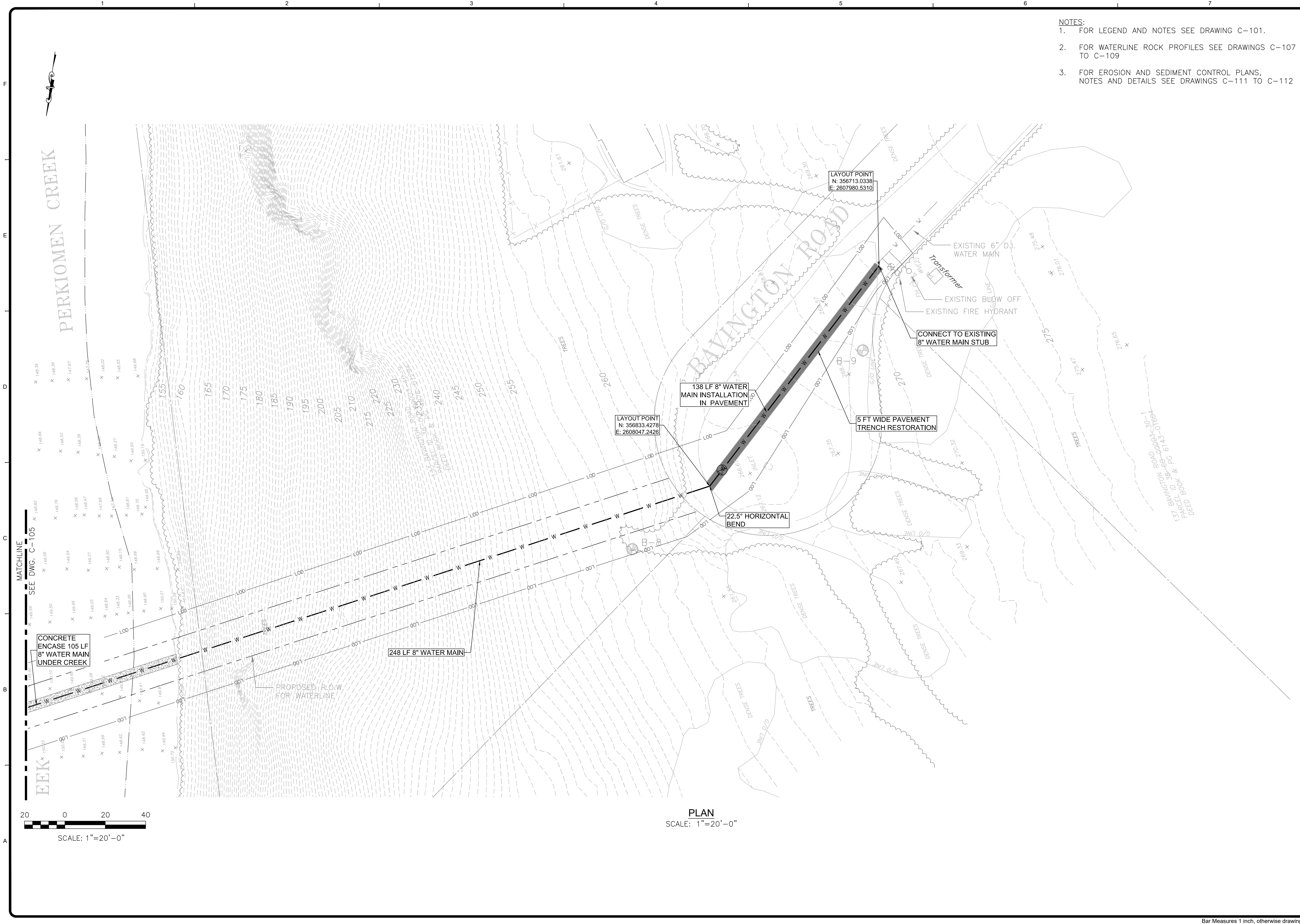
- NOTES:
1. FOR LEGEND AND NOTES SEE DRAWING C-101.
 2. FOR WATERLINE ROCK PROFILES SEE DRAWINGS C-107 TO C-109
 3. FOR EROSION AND SEDIMENT CONTROL PLANS, NOTES AND DETAILS SEE DRAWINGS C-111 TO C-112




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PROJ:	1031903401001	USERA	MARK	DATE	DESCRIPTION	BY
DESIGN:	EJP	UPPER SAFFORD TOWNSHIP, MONTGOMERY CO, PA	0	4/23/21	90% DESIGN REVIEW SUBMISSION	
DRWN:	JEC	BAGHURST ALLEY SITE	0	5/10/21	80% DESIGN REVIEW SUBMISSION	
CHKD:	EJP	NEW WATER MAIN	0	7/9/21	PERMIT SUBMISSION	
		PHASE 2				
		WATER LINE PLAN				

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USEPA UPPER SALFORD TOWNSHIP, MONTGOMERY CO. PA BAGHURST ALLEY SITE NEW WATER MAIN	MARK	DATE	DESCRIPTION	BY
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PHASE 2 WATER LINE PLAN				

PROJ: 1031903401001

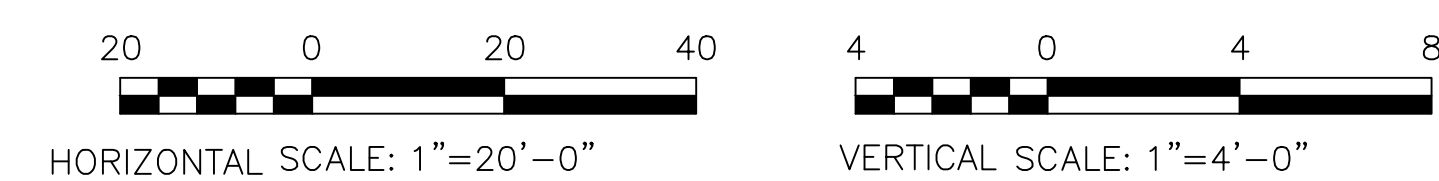
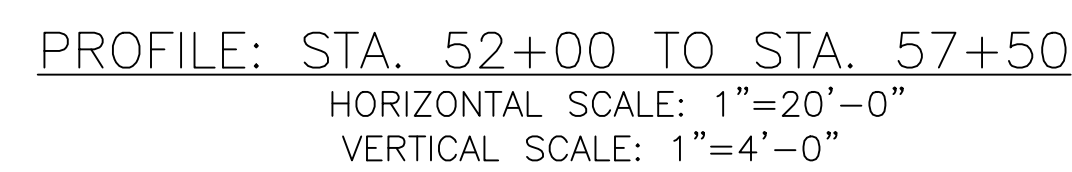
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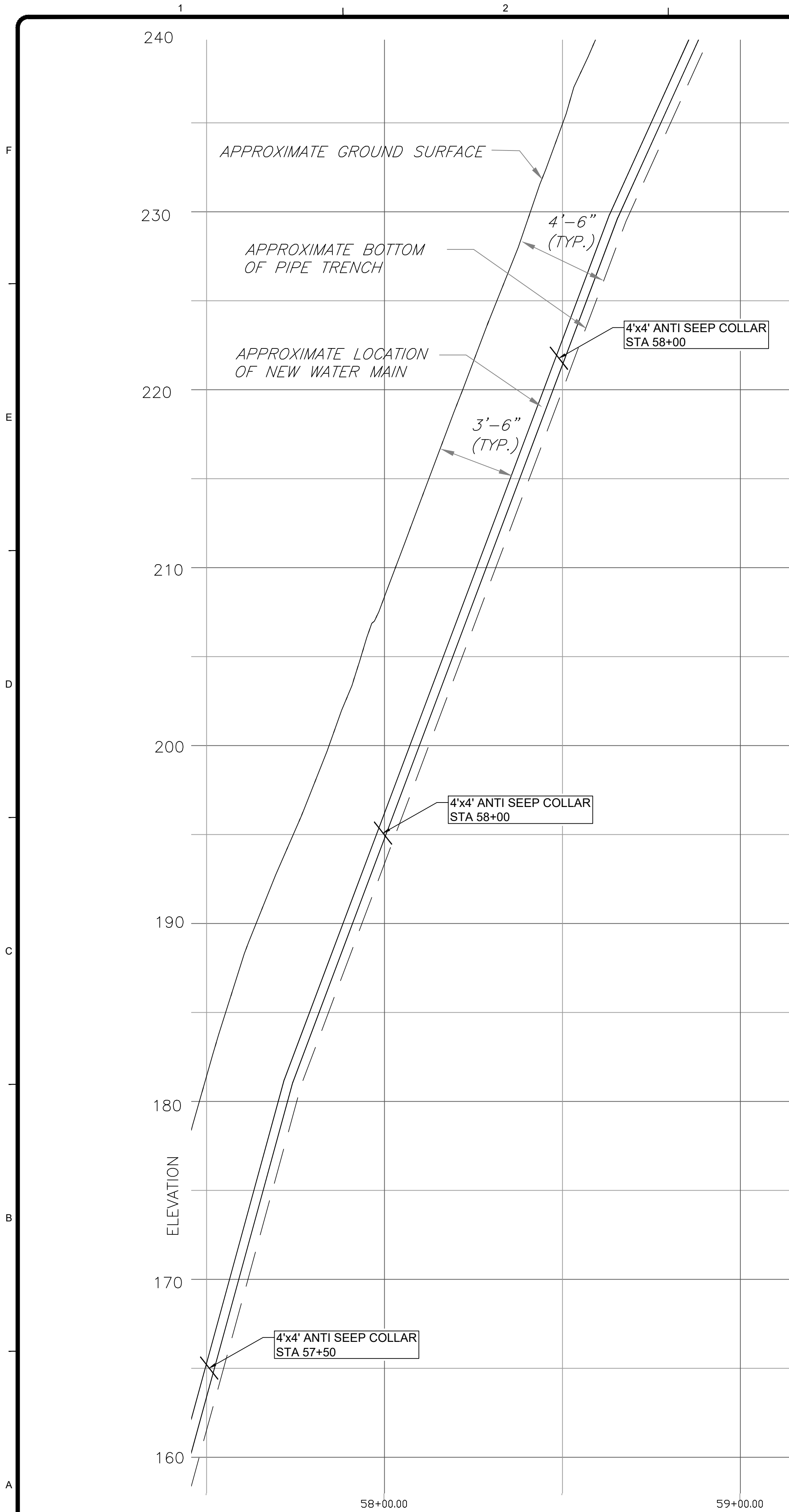
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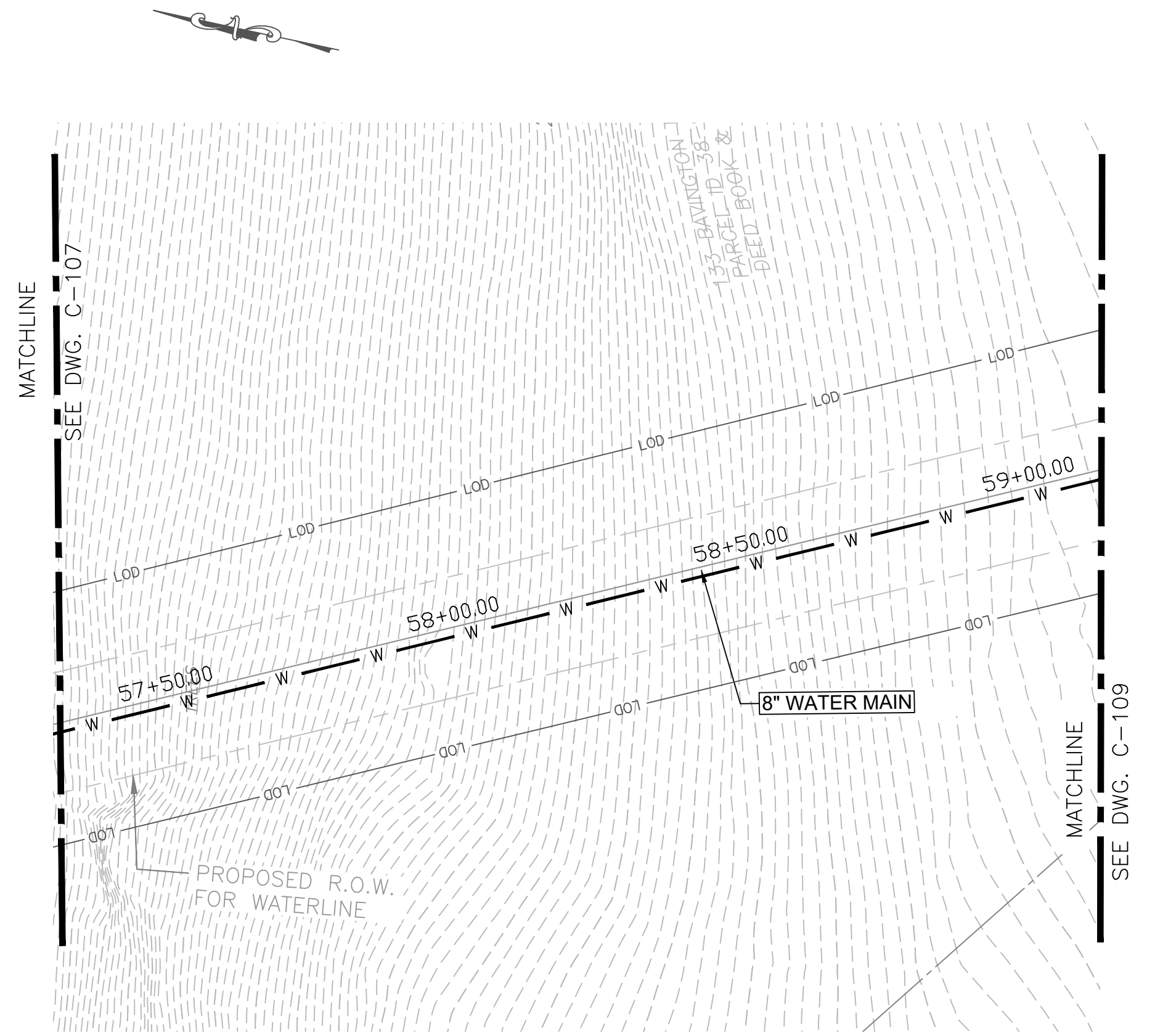
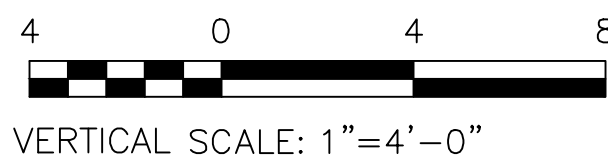
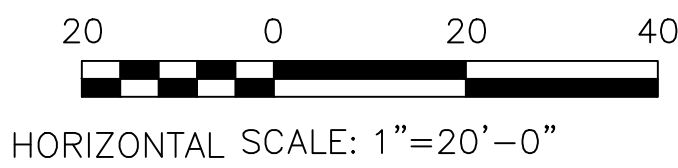
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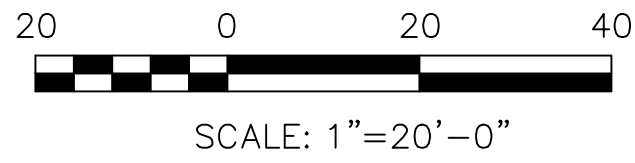
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PROFILE: STA. 57+50 TO STA. 59+00
HORIZONTAL SCALE: 1"=20'-0"
VERTICAL SCALE: 1"=4'-0"




PLAN
SCALE: 1"=20'-0"





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USEPA
UPPER SALFORD TOWNSHIP, MONTGOMERY CO. PA
BAGHURST ALLEY SITE
NEW WATER MAIN

PHASE 2
WATER LINE ROCK PROFILE

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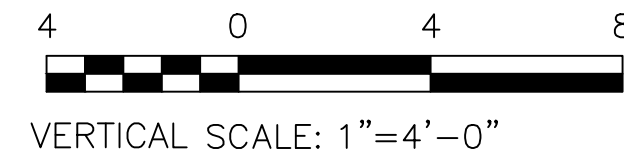
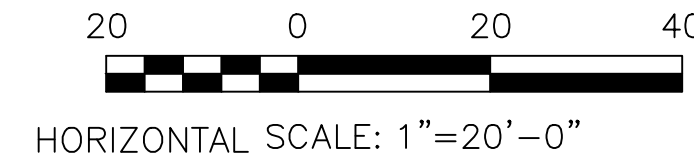
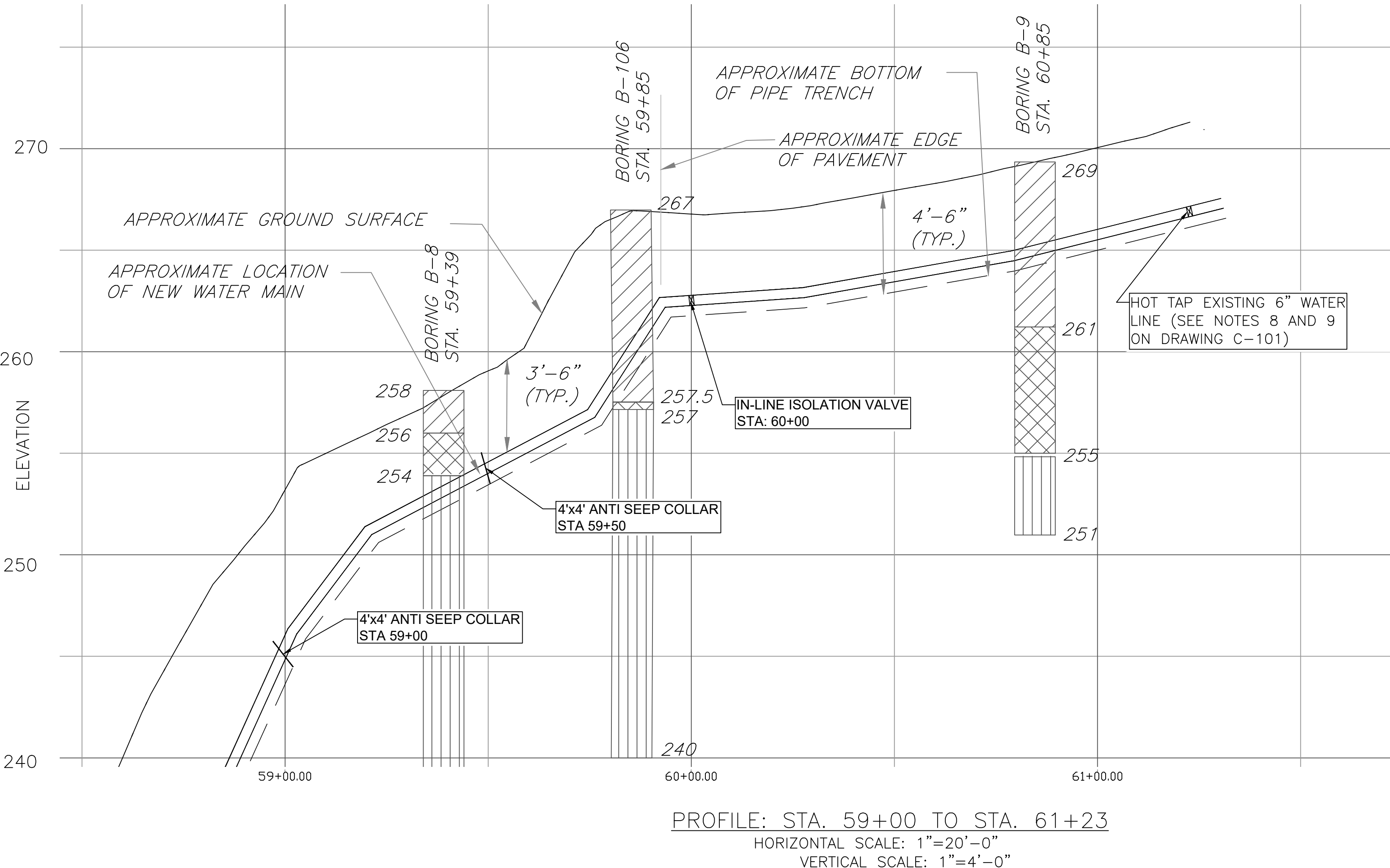
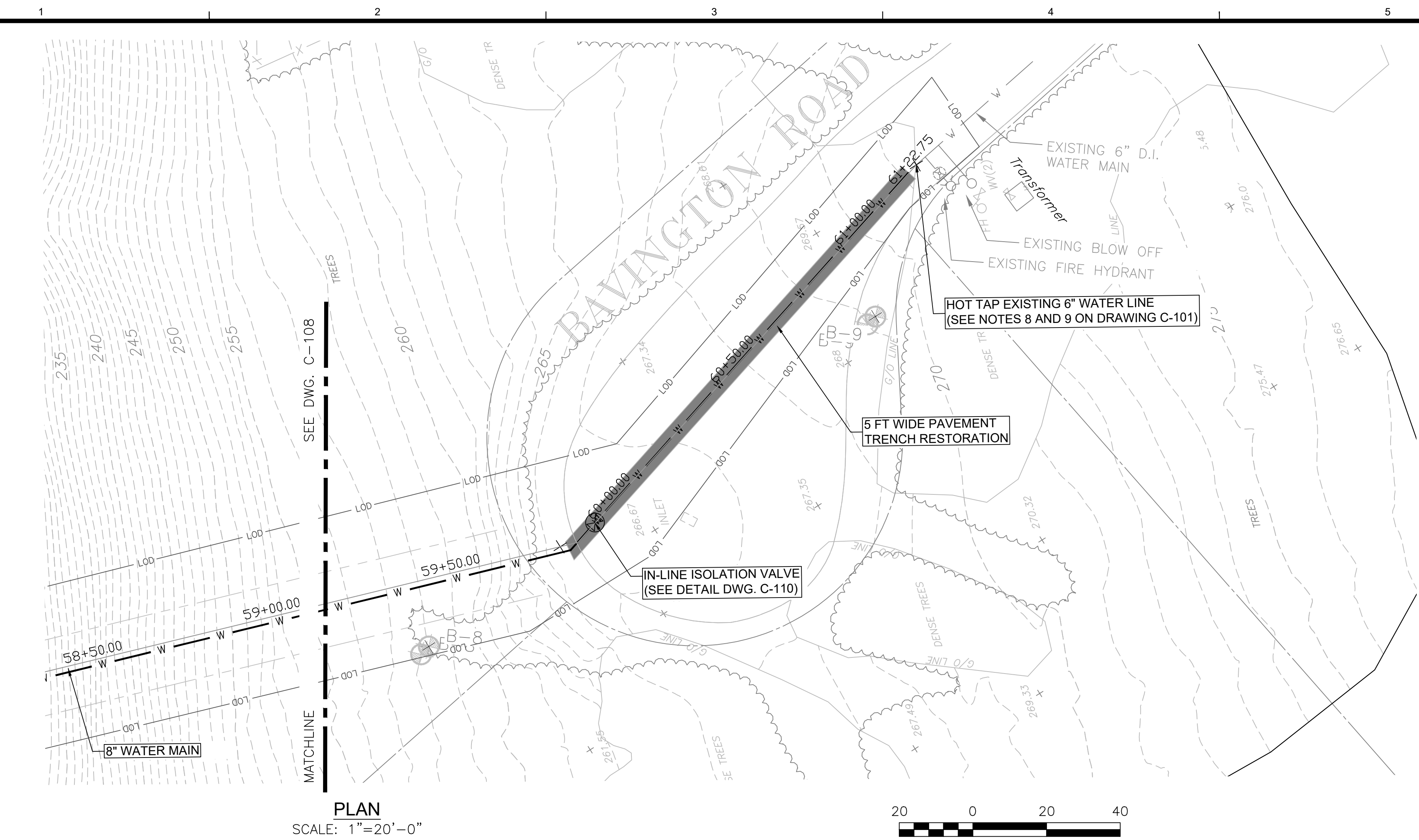
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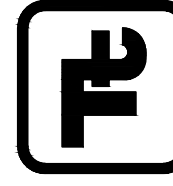
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WATER LINE ROCK PROFILE		

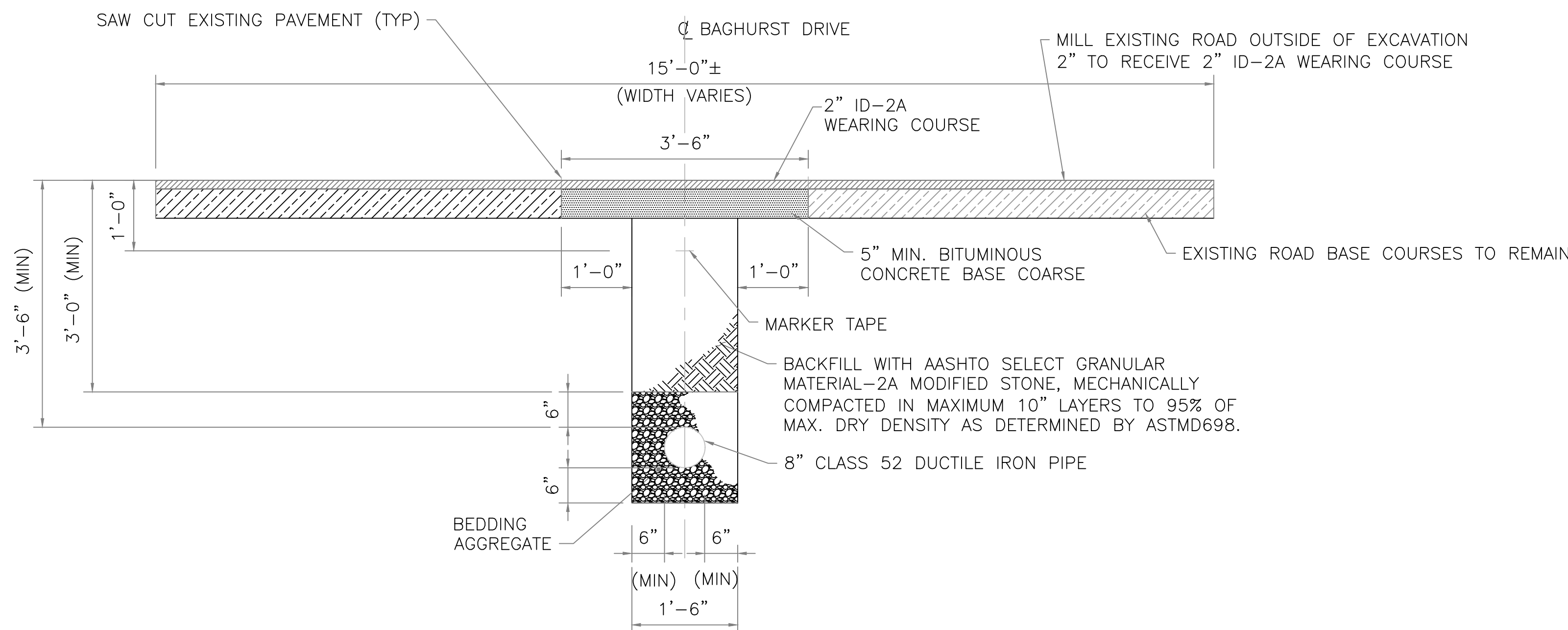
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TYPICAL WATER MAIN TRENCH SECTION (UNPAVED AREAS) 1
110

TYPICAL WATER MAIN TRENCH SECTION (UNPAVED AREAS) (1)
3/4"=1'-0"



BAGHURST DRIVE
STATION 16+95 THROUGH 26+40

FULL WIDTH BITUMINOUS PAVEMENT RESTORATION SECTION 2
3/4"=1'-0" 110

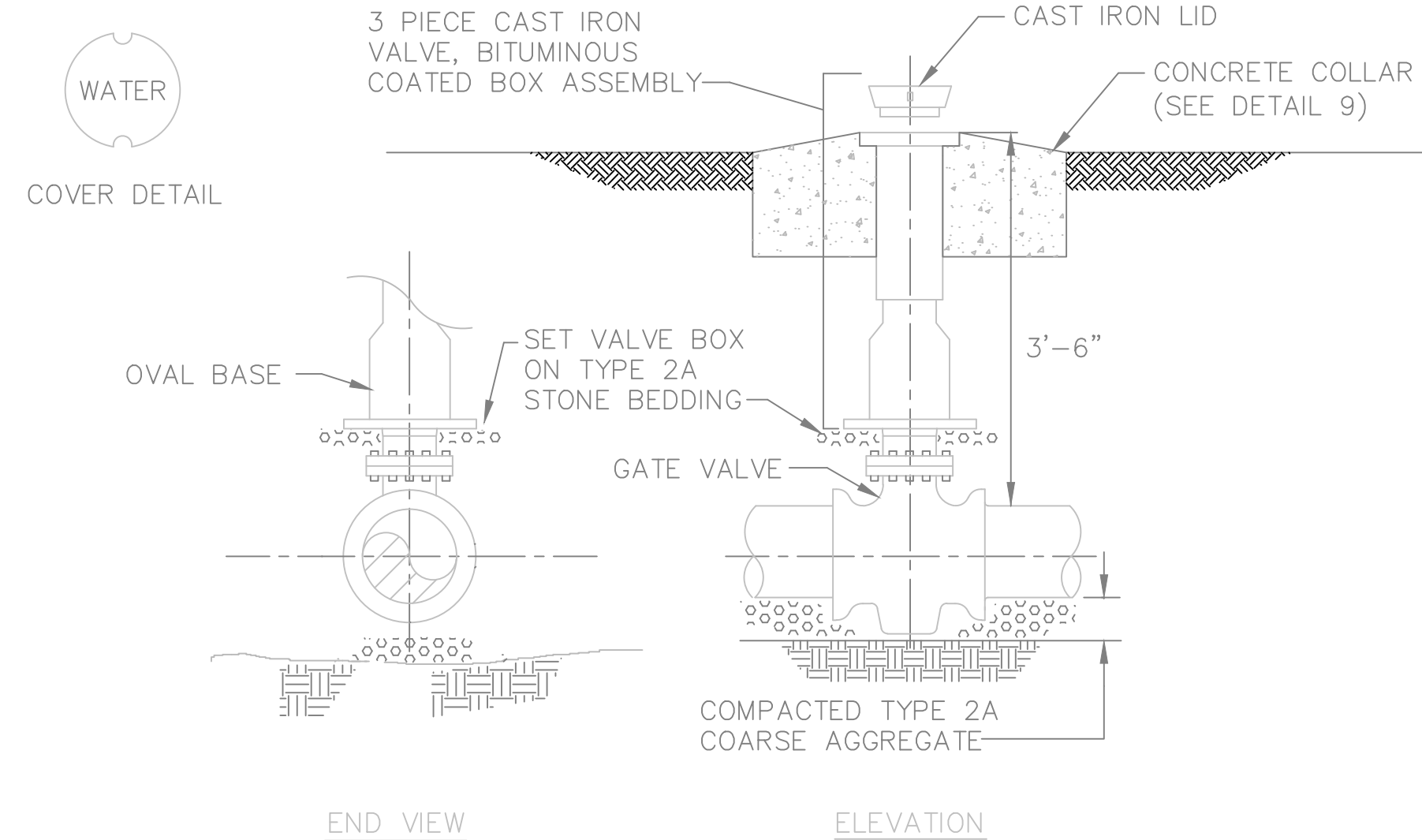
ONE LENGTH OF POLYETHYLENE TUBE, WITH 1' OVERLAP AT THE JOINTS FOR EACH LENGTH OF PIPE

The diagram shows a horizontal assembly of three sections of polyethylene tube. Each section is represented by two parallel lines with a slight outward flare at the ends. The sections are joined by two vertical rectangular components, likely clamps or couplings. The first joint connects the first and second sections, and the second joint connects the second and third sections. The second section is shorter than the first and third sections, creating an overlap at both joints. The text below the diagram states: "ONE LENGTH OF POLYETHYLENE TUBE, WITH 1' OVERLAP AT THE JOINTS FOR EACH LENGTH OF PIPE".

TYPICAL POLYETHYLENE WRAPPING DETAIL

N.T.S.

3
110



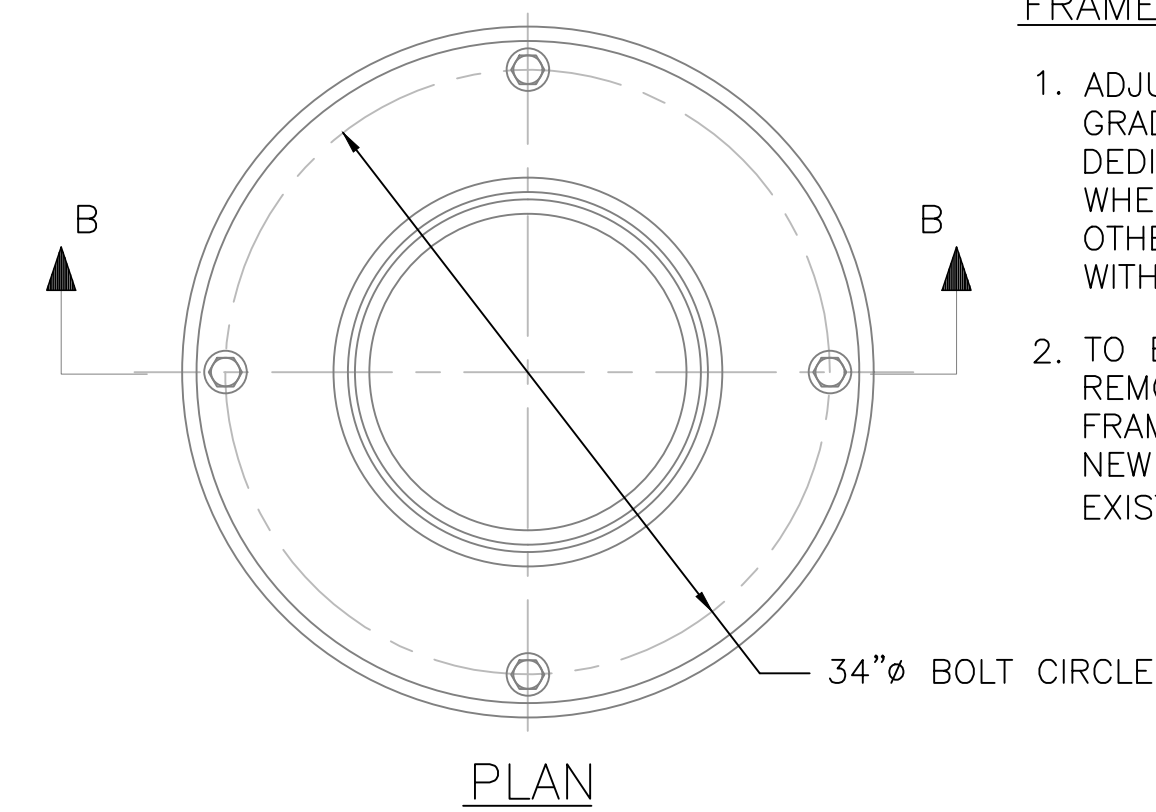
IN-LINE VALVE NOTES:

IN-LINE GATE VALVES AND VALVE
BOXES SHALL BE PROVIDED EVERY
800 FEET ALONG THE WATER MAIN.

TYPICAL IN-LINE GATE VALVE AND VALVE BOX DETAIL 4
N.T.S. 110

THRUST BLOCKS FOR TEES, HORIZ. & VERTICAL BENDS AND PLUGS						
DESCRIPTION	DIMENSION	6"Ø	8"Ø	10"Ø	12"Ø	16"Ø
TEES	N	0-10"	1'-2"	1'-5"	1'-5"	2'-1"
	O	0-10"	1'-2"	1'-5"	1'-5"	2'-1"
	P	1-10"	1'-4"	1'-8"	1'-11"	2'-4"
90° BENDS	N	0-10"	1'-2"	1'-5"	1'-5"	2'-1"
	O	0-10"	1'-4"	1'-8"	1'-11"	2'-4"
	P	0-8"	1'-0"	1'-3"	1'-8"	1'-8"
45° BENDS	N	0-8"	1'-0"	1'-3"	1'-8"	1'-8"
	O	0-8"	1'-0"	1'-3"	1'-8"	1'-8"
	P	0-8"	1'-0"	1'-3"	1'-8"	1'-8"
22 1/2° BENDS	N	0-7"	0-9"	0-11"	0-11"	0-13"
	O	0-7"	0-9"	0-11"	0-11"	0-13"
	P	0-5"	0-6"	0-8"	0-8"	1-0"
11 1/4° BENDS	N	0-5"	0-5"	0-8"	0-8"	1-0"
	O	0-5"	0-5"	0-8"	0-8"	1-0"
	P	0-5"	0-5"	0-8"	0-8"	1-0"
PLUGS	N	1'-8"	2'-4"	2'-10"	3'-4"	4'-2"
	O	1'-8"	2'-4"	2'-10"	3'-4"	4'-2"
	P	1'-8"	2'-4"	2'-10"	3'-4"	4'-2"

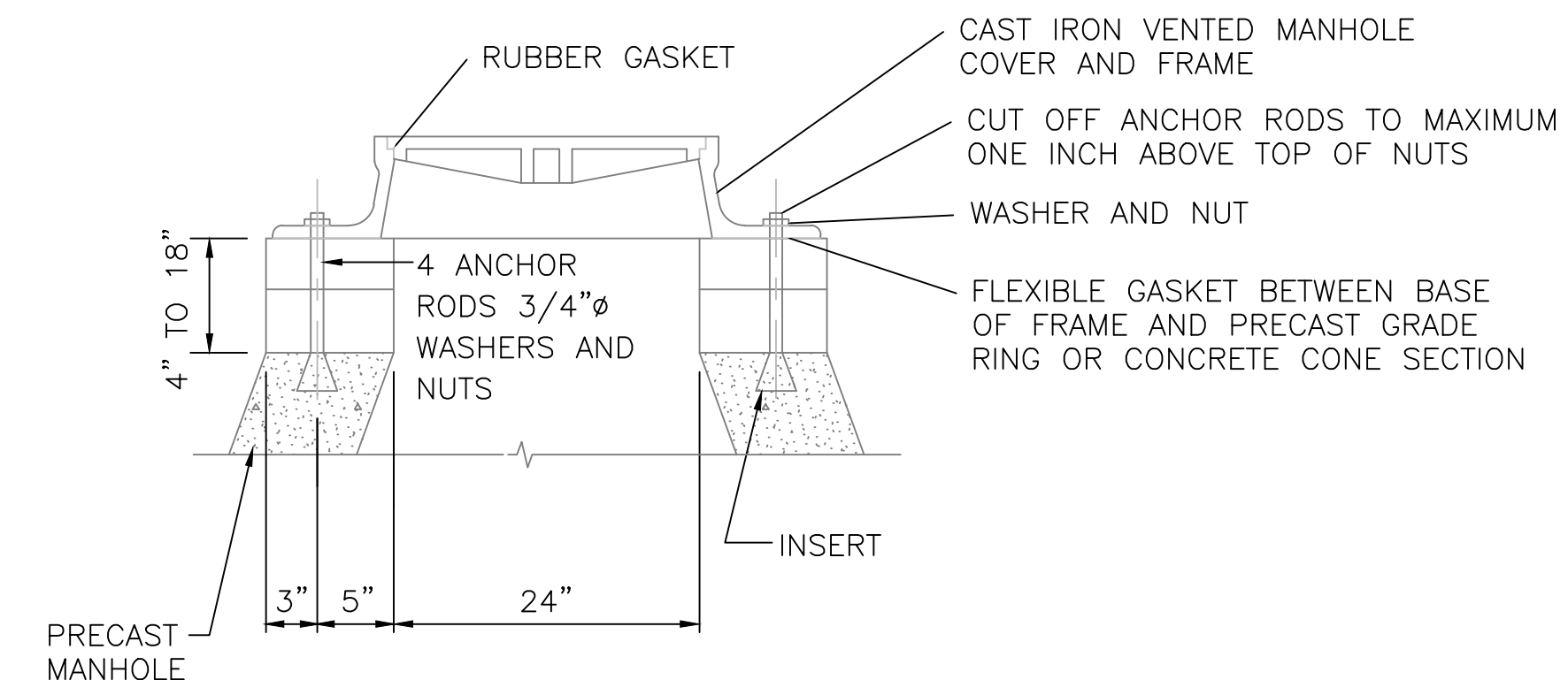
THRUST BLOCKS DESIGNED FOR 200 LBS. PER SQ. IN. TEST
PRESSURE AND 2000 LBS. PER SQ. FT. SOIL PRESSURE
WRAP ALL FITTINGS IN PLASTIC BEFORE POURING CONCRETE.



PLAN

FRAME AND COVER NOTES:

1. ADJUST MANHOLE FRAME AND COVER TO PROPER GRADE, CROSS SLOPE, AND ELEVATION IN SPACE DEDICATED TO PUBLIC USE, TRAVELED WAY, OR WHEN DESIGNATED TO MEET EXISTING GRADE. OTHERWISE PRECAST MANHOLE TO BE BUILT WITHOUT TRANSITION.
2. TO BRING AN INTERIM SETTING TO FINAL GRADE, REMOVE EXISTING ANCHOR RODS, WASHERS, NUTS, FRAME AND COVER, AND FLEXIBLE GASKET. INSTALL NEW ANCHOR RODS, GRADE RINGS AND REINSTALL EXISTING FRAME/COVER, AND NEW WASHERS/NUTS.

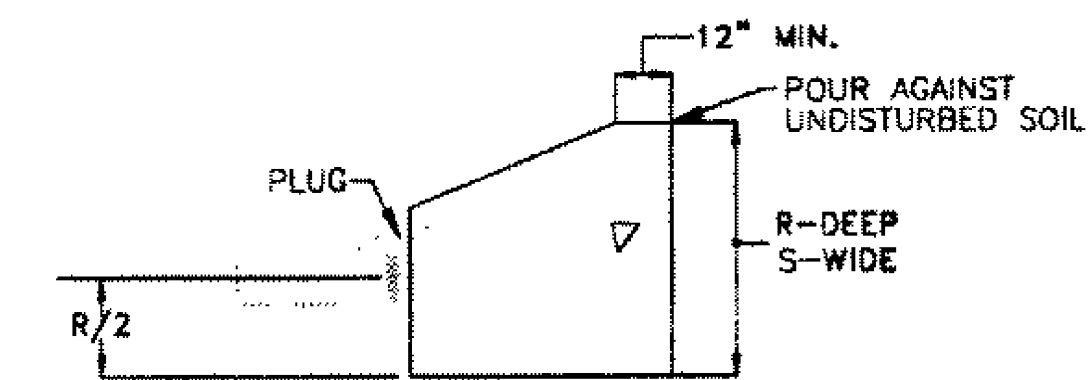


SECTION B-B

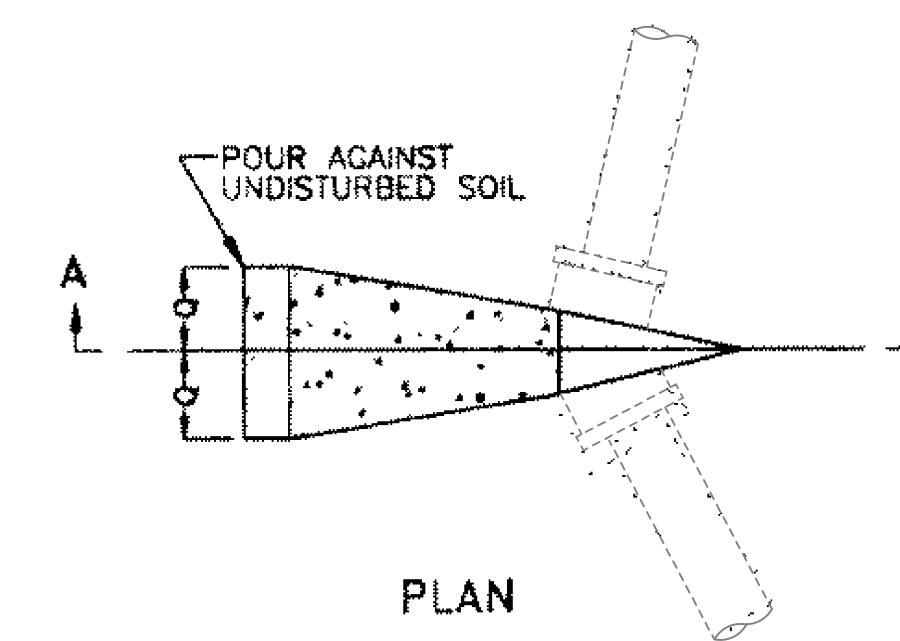
MANHOLE ADJUSTING DETAIL

N.T.S.

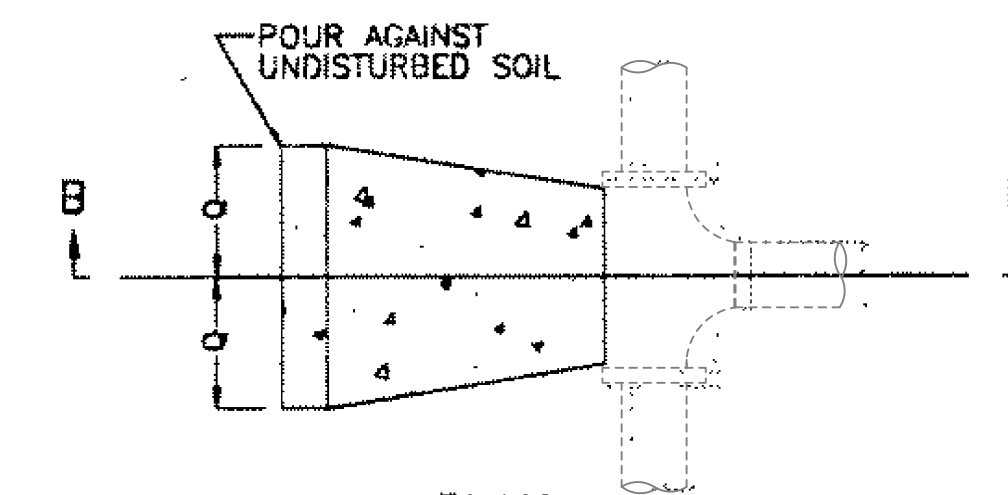
5
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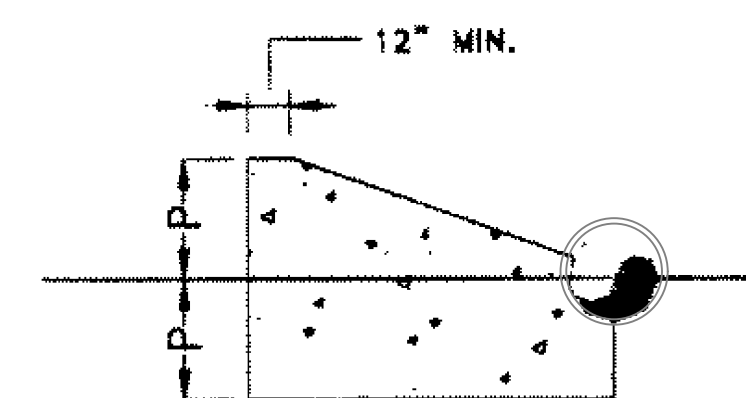
PLUGS



PLAN

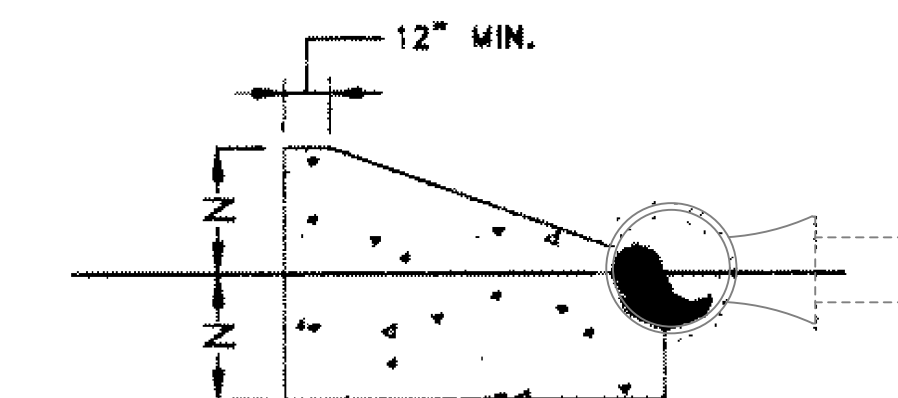


PLAN

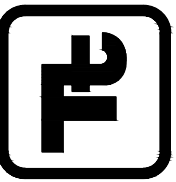


THRUST BLOCK DETAILS

N.T.S.



TETRA TECH



0	4/23/21	90% DESIGN REVIEW SUBMISSION
0	5/10/21	90% DESIGN REVIEW SUBMISSION
0	7/9/21	PERMIT SUBMISSION

BAGHURST ALLEY SITE
 NEW WATER MAIN
 PHASE 2
 WATER LINE SECTIONS AND DETAILS

OJ:	103I903401001
SN:	EJP
WN:	JEC
KD:	EJP

C-110

Copyright: Tetra Tech

7/12/2021 11:52:37 AM - S:\03-PROJECTS\FEDERAL\START REGION 3 (VI)\03 - PROJECTS\01 - ACTIVE\01 - REMOVAL-AREA PLANNING\T601-20-07-001 - BAGHURST DR REMOVAL\FIGURES\GRAPHICS\SHEET FILES\CIVIL\DETAILS-2.DWG - PIAZZA.LIZ

GENERAL E&S NOTES

1.

ALL EARTH DISTURBANCES, INCLUDING CLEARING AND GRUBBING AS WELL AS CUTS AND FILLS SHALL BE DONE IN ACCORDANCE WITH THE APPROVED E&S PLAN. A COPY OF THE APPROVED DRAWINGS (STAMPED, SIGNED AND DATED BY THE REVIEWING AGENCY) MUST BE AVAILABLE AT THE PROJECT SITE AT ALL TIMES. THE REVIEWING AGENCY SHALL BE NOTIFIED OF ANY CHANGES TO THE APPROVED PLAN PRIOR TO IMPLEMENTATION OF THOSE CHANGES. THE REVIEWING AGENCY MAY REQUIRE A WRITTEN SUBMITTAL OF THOSE CHANGES FOR REVIEW AND APPROVAL AT ITS DISCRETION.
2.

AT LEAST 7 DAYS PRIOR TO STARTING ANY EARTH DISTURBANCE ACTIVITIES, INCLUDING CLEARING AND GRUBBING, THE OWNER AND/OR OPERATOR SHALL INVITE ALL CONTRACTORS, THE LANDOWNER, APPROPRIATE MUNICIPAL OFFICIALS, THE E&S PLAN PREPARER, THE PCSM PLAN PREPARER, THE LICENSED PROFESSIONAL RESPONSIBLE FOR OVERSIGHT OF CRITICAL STAGES OF IMPLEMENTATION OF THE PCSM PLAN, AND A REPRESENTATIVE FROM THE LOCAL CONSERVATION DISTRICT TO AN ON-SITE PRECONSTRUCTION MEETING.
3.

AT LEAST 3 DAYS PRIOR TO STARTING ANY EARTH DISTURBANCE ACTIVITIES, OR EXPANDING INTO AN AREA PREVIOUSLY UNMARKED, THE PENNSYLVANIA ONE CALL SYSTEM INC. SHALL BE NOTIFIED AT 1-800-242-1776 FOR THE LOCATION OF EXISTING UNDERGROUND UTILITIES.
4.

ALL EARTH DISTURBANCE ACTIVITIES SHALL PROCEED IN ACCORDANCE WITH THE SEQUENCE PROVIDED ON THE E&S PLAN DRAWINGS. DEVIATION FROM THAT SEQUENCE MUST BE APPROVED IN WRITING FROM THE LOCAL CONSERVATION DISTRICT OR BY THE DEPARTMENT PRIOR TO IMPLEMENTATION.
5.

AREAS TO BE FILLED ARE TO BE CLEARED, GRUBBED AND STRIPPED OF TOPSOIL TO REMOVE TREES, VEGETATION, ROOTS AND OTHER OBJECTIONABLE MATERIAL.
6.

CLEARING, GRUBBING AND TOPSOIL STRIPPING SHALL BE LIMITED TO THOSE AREAS DESCRIBED IN EACH STAGE OF THE CONSTRUCTION SEQUENCE. GENERAL SITE CLEARING, GRUBBING AND TOPSOIL STRIPPING MAY NOT COMMENCE IN ANY STAGE OR PHASE OF THE PROJECT UNTIL THE E&S BMP'S SPECIFIED BY THE BMP SEQUENCE FOR THAT STAGE OR PHASE HAVE BEEN INSTALLED AND ARE FUNCTIONING AS DESCRIBED IN THIS E&S PLAN.
7.

AT NO TIME SHALL CONSTRUCTION VEHICLES BE ALLOWED TO ENTER AREAS OUTSIDE THE LIMITS OF DISTURBANCE BOUNDARIES SHOWN ON THE PLAN MAPS. THESE AREAS MUST BE CLEARLY MARKED AND FENCED OFF BEFORE CLEARING AND GRUBBING OPERATIONS BEGIN.
8.

TOPSOIL REQUIRED FOR THE ESTABLISHMENT OF VEGETATION SHALL BE STOCKPILED AT THE LOCATION(S) SHOWN ON THE PLAN MAP(S) IN THE AMOUNT NECESSARY TO COMPLETE THE FINISH GRADING OF ALL EXPOSED AREAS THAT ARE TO BE STABILIZED BY VEGETATION. EACH STOCKPILE SHALL BE PROTECTED IN THE MANNER SHOWN ON THE E&S PLAN DRAWINGS. STOCKPILE HEIGHTS SHALL NOT EXCEED 35 FEET. STOCKPILE SLOPES SHALL BE 2H:1V OR FLATTER.
9.

IMMEDIATELY UPON DISCOVERING UNFORESEEN CIRCUMSTANCES POSING THE POTENTIAL FOR ACCELERATED EROSION AND/OR SEDIMENT POLLUTION, THE OPERATOR SHALL IMPLEMENT APPROPRIATE BEST MANAGEMENT PRACTICES TO MINIMIZE THE POTENTIAL FOR EROSION AND SEDIMENT POLLUTION AND NOTIFY THE LOCAL CONSERVATION DISTRICT AND/OR THE REGIONAL OFFICE OF THE DEPARTMENT.
10.

ALL BUILDING MATERIALS AND WASTES SHALL BE REMOVED FROM THE SITE AND RECYCLED OR DISPOSED OF IN ACCORDANCE WITH THE DEPARTMENT'S SOLID WASTE MANAGEMENT REGULATIONS AT 25 PA. CODE 260.1 ET SEQ., 271.1 AND 287.1 ET. SEQ. NO BUILDING MATERIALS OR WASTES OR UNUSED BUILDING MATERIALS SHALL BE BURNED, BURIED, DUMPED, OR DISCHARGED AT THE SITE.
11.

ALL OFF-SITE WASTE AND BORROW AREAS MUST HAVE AN E&S PLAN APPROVED BY THE LOCAL CONSERVATION DISTRICT OR THE DEPARTMENT FULLY IMPLEMENTED PRIOR TO BEING ACTIVATED.
12.

THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ANY MATERIAL BROUGHT ON SITE IS CLEAN FILL. FORM FP-001 MUST BE RETAINED BY THE PROPERTY OWNER FOR ANY FILL MATERIAL AFFECTED BY A SPILL OR RELEASE OF A REGULATED SUBSTANCE BUT QUALIFYING AS CLEAN FILL DUE TO ANALYTICAL TESTING.
13.

ALL PUMPING OF WATER FROM ANY WORK AREA SHALL BE DONE ACCORDING TO THE PROCEDURE DESCRIBED IN THIS E&S PLAN, OVER UNDISTURBED VEGETATED AREAS.
14.

UNTIL THE SITE IS STABILIZED, ALL EROSION AND SEDIMENT BMPS SHALL BE MAINTAINED PROPERLY. MAINTENANCE SHALL INCLUDE INSPECTIONS OF ALL EROSION AND SEDIMENT BMPS AFTER EACH RUNOFF EVENT AND ON A WEEKLY BASIS. ALL PREVENTATIVE AND REMEDIAL MAINTENANCE WORK, INCLUDING CLEAN OUT, REPAIR, REPLACEMENT, REGRADING, RESEEDING, REMULCHING AND RENETTING MUST BE PERFORMED IMMEDIATELY. IF THE E&S BMPS FAIL TO PERFORM AS EXPECTED, REPLACEMENT BMPS, OR MODIFICATIONS OF THOSE MATERIALS WILL BE REQUIRED.
15.

A LOG SHOWING DATES THAT E&S BMPS WERE INSPECTED AS WELL AS ANY DEFICIENCIES FOUND AND THE DATE THEY WERE CORRECTED SHALL BE MAINTAINED ON THE SITE AND BE MADE AVAILABLE TO REGULATORY AGENCY OFFICIALS AT THE TIME OF INSPECTION.
16.

SEDIMENT TRACKED ONTO ANY PUBLIC ROADWAY OR SIDEWALK SHALL BE RETURNED TO THE CONSTRUCTION SITE BY THE END OF EACH WORK DAY AND DISPOSED IN THE MANNER DESCRIBED IN THIS E&S PLAN. IN NO CASE SHALL THE SEDIMENT BE WASHED, SHOVELED, OR SWEEPED INTO ANY ROADSIDE DITCH, STORM SEWER, OR SURFACE WATER.
17.

ALL SEDIMENT REMOVED FROM BMPS SHALL BE DISPOSED OF IN MANNER DESCRIBED ON THE E&S PLAN DRAWINGS.
18.

AREAS WHICH ARE TO BE TOPSOILED SHALL BE SCARIFIED TO A MINIMUM DEPTH OF 3 TO 5 INCHES - 6 TO 12 INCHES ON COMPACTED SOILS - PRIOR TO PLACEMENT OF TOPSOIL. AREAS TO BE VEGETATED SHALL HAVE A MINIMUM 4 INCHES OF TOPSOIL IN PLACE PRIOR TO SEEDING AND MULCHING. FILL OUTSLOPES SHALL HAVE A MINIMUM OF 2 INCHES OF TOPSOIL.
19.

ALL FILLS SHALL BE COMPACTED AS REQUIRED TO REDUCE EROSION, SLIPPAGE, SETTLEMENT, SUBSIDENCE OR OTHER RELATED PROBLEMS. FILL INTENDED TO SUPPORT BUILDINGS, STRUCTURES AND CONDUITS, ETC. SHALL BE COMPACTED IN ACCORDANCE WITH LOCAL REQUIREMENTS OR CODES, OR AS DIRECTED BY THE ENGINEER.
20.

ALL EARTHEN FILLS SHALL BE PLACED IN COMPACTED LAYERS NOT TO EXCEED 9 INCHES IN THICKNESS.
21.

FILL MATERIALS SHALL BE FREE OF FROZEN PARTICLES, BRUSH, ROOTS, SOD, OR OTHER FOREIGN OR OBJECTIONABLE MATERIALS THAT WOULD INTERFERE WITH OR PREVENT CONSTRUCTION OF SATISFACTORY FILLS.
22.

FROZEN MATERIALS OR SOFT, MUCKY, OR HIGHLY COMPRESSIBLE MATERIALS SHALL NOT BE INCORPORATED INTO FILLS.
23.

FILL SHALL NOT BE PLACED ON SATURATED OR FROZEN SURFACES.
24.

SEEPS OR SPRINGS ENCOUNTERED DURING CONSTRUCTION SHALL BE HANDLED IN ACCORDANCE WITH THE STANDARD AND SPECIFICATION FOR SUBSURFACE DRAIN OR OTHER APPROVED METHOD.

26.

IMMEDIATELY AFTER EARTH DISTURBANCE ACTIVITIES CEASE IN ANY AREA OR SUBAREA OF THE PROJECT, THE OPERATOR SHALL STABILIZE ALL DISTURBED AREAS. DURING NON-GERMINATING MONTHS, MULCH OR PROTECTIVE BLANKETING SHALL BE APPLIED AS DESCRIBED IN THE E&S PLAN. AREAS NOT AT FINISHED GRADE, WHICH WILL BE REACTIVATED WITHIN 1 YEAR, MAY BE STABILIZED IN ACCORDANCE WITH THE TEMPORARY STABILIZATION SPECIFICATIONS. THOSE AREAS WHICH WILL NOT BE REACTIVATED WITHIN 1 YEAR SHALL BE STABILIZED IN ACCORDANCE WITH THE PERMANENT STABILIZATION SPECIFICATIONS.
27.

PERMANENT STABILIZATION IS DEFINED AS A MINIMUM UNIFORM, PERENNIAL 70% VEGETATIVE COVER OR OTHER PERMANENT NON-VEGETATIVE COVER WITH A DENSITY SUFFICIENT TO RESIST ACCELERATED EROSION. CUT AND FILL SLOPES SHALL BE CAPABLE OF RESISTING FAILURE DUE TO SLUMPING, SLIDING, OR OTHER MOVEMENTS.
28.

E&S BMPS SHALL REMAIN FUNCTIONAL AS SUCH UNTIL ALL AREAS TRIBUTARY TO THEM ARE PERMANENTLY STABILIZED OR UNTIL THEY ARE REPLACED BY ANOTHER BMP APPROVED BY THE LOCAL CONSERVATION DISTRICT OR THE DEPARTMENT.
29.

UPON COMPLETION OF ALL EARTH DISTURBANCE ACTIVITIES AND PERMANENT STABILIZATION OF ALL DISTURBED AREAS, THE OWNER AND/OR OPERATOR SHALL CONTACT THE LOCAL CONSERVATION DISTRICT FOR AN INSPECTION PRIOR TO REMOVAL/CONVERSION OF THE E&S BMPS.
30.

AFTER FINAL SITE STABILIZATION HAS BEEN ACHIEVED, TEMPORARY EROSION AND SEDIMENT BMPS MUST BE REMOVED OR CONVERTED TO PERMANENT POST CONSTRUCTION STORMWATER MANAGEMENT BMPS. AREAS DISTURBED DURING REMOVAL OR CONVERSION OF THE BMPS SHALL BE STABILIZED IMMEDIATELY. IN ORDER TO ENSURE RAPID REVEGETATION OF DISTURBED AREAS, SUCH REMOVAL/CONVERSIONS ARE TO BE DONE ONLY DURING THE GERMINATING SEASON, UNLESS OTHERWISE APPROVED BY THE ENGINEER.
31.

UPON COMPLETION OF ALL EARTH DISTURBANCE ACTIVITIES AND PERMANENT STABILIZATION OF ALL DISTURBED AREAS, THE OWNER AND/OR OPERATOR SHALL CONTACT THE LOCAL CONSERVATION DISTRICT TO SCHEDULE A FINAL INSPECTION.
32.

FAILURE TO CORRECTLY INSTALL E&S BMPS, FAILURE TO PREVENT SEDIMENT-LADEN RUNOFF FROM LEAVING THE CONSTRUCTION SITE, OR FAILURE TO TAKE IMMEDIATE CORRECTIVE ACTION TO RESOLVE FAILURE OF E&S BMPS MAY RESULT IN ADMINISTRATIVE, CIVIL, AND/OR CRIMINAL PENALTIES BEING INSTITUTED BY THE DEPARTMENT AS DEFINED IN SECTION 602 OF THE PENNSYLVANIA CLEAN STREAMS LAW. THE CLEAN STREAMS LAW PROVIDES FOR UP TO \$10,000 PER DAY IN CIVIL PENALTIES, UP TO \$10,000 IN SUMMARY CRIMINAL PENALTIES, AND UP TO \$25,000 IN MISDEMEANOR CRIMINAL PENALTIES FOR EACH VIOLATION.

SEQUENCE OF CONSTRUCTION

1.

NOTIFY MONTGOMERY COUNTY CONSERVATION DISTRICT SEDIMENT AND STORMWATER PROGRAM IN WRITING AT LEAST (5) DAYS PRIOR TO THE START OF CONSTRUCTION.
2.

THE CONTRACTOR SHALL AT ALL TIMES PROTECT AGAINST SEDIMENT OR DEBRIS LADEN RUNOFF OR WIND FROM LEAVING THE SITE. PERIMETER CONTROLS SHOULD BE CHECKED DAILY AND ADJUSTED AND OR REPAIRED TO FULLY CONTAIN AND CONTROL SEDIMENTATION ON THE SITE. ACCUMULATED SEDIMENT SHALL BE REMOVED WHEN IT HAS REACHED HALF OF THE EFFECTIVE CAPACITY OF THE CONTROL. IN ADDITION, THE CONTRACTOR MAY NEED TO ADJUST OR REPAIR MEASURES IN TIMES OF ADVERSE WEATHER CONDITIONS.
3.

IT IS THE CONTRACTORS RESPONSIBILITY TO MAINTAIN AND REPAIR ALL EROSION AND SEDIMENT CONTROL MEASURES DURING CONSTRUCTION AND UTILITY INSTALLATION.
4.

PLACE STABILIZED CONSTRUCTION ENTRANCE, PERIMETER CONTROLS INCLUDING SUPERS SILT FENCE AND INLET PROTECTION.
5.

CLEAR AND GRUB AREA WITHIN THE PERIMETER CONTROLS.
6.

ACCESS FOR THE CONSTRUCTION SHALL BE FROM BAVINGTON ROAD OR THROUGH THE TOWNSHIP PROPERTY OFF OF SALFORD STATION ROAD.
7.

CREEK CROSSING INSTALLATION SHALL BE DONE IN TWO SECTIONS. COFFER DAMS SHALL BE PLACED AROUND THE AREA OF WATERLINE INSTALLATION ON EAST AND WEST SIDE OF THE PERKIOMEN CREEK FOR THE TWO SECTIONS OF THE CREEK CROSSING.
8.

APPROXIMATE LOCATION OF THE COFFER DAM IS SHOWN ON THE PLANS. ACCESS FOR THE CREEK CROSSING MAY BE EASIER FROM SALFORD STATION ROAD OR EAST SIDE OF THE CREEK. IF ACCESS IS FROM THE EASTERN SIDE OF THE CREEK COFFER DAM AND EQUIPMENT MAY NEED TO BE PLACED IN A STEP PROCESS TO ENSURE NO MORE THAN 50% OF THE CREEK BED IS UNDER CONSTRUCTION AT ONE TIME.
9.

EXCAVATE AND INSTALL WATER LINE AS PER PLAN, PROFILE AND DETAILS CONTAINED IN THIS SET.
10.

WATERLINE ON THE STEEP SLOPE BETWEEN BAVINGTON ROAD AND THE PERKIOMEN CREEK SHALL BE BACKFILLED WITH SOIL HAVING A 40-60% CLAY CONTENT AND THEN STABILIZED WITH EROSION BLANKETS, AND PERMANENT SEED.
11.

CONTRACTOR TO PLACE COFFER DAM FOR CREEK CROSSING INSTALLATION.
12.

CONTRACTOR TO USE FILTER BAG FOR ANY PUMPED WATER OR DISCHARGE ASSOCIATED WITH COFFER DAM PLACEMENT OR EXCAVATION. FILTER BAG DISCHARGE SHALL BE PLACED DOWNSTREAM AND OR DOWNSLOPE OF THE AREA BEING PUMPED. FOR LARGE VOLUME PUMPING, THE DISCHARGE PIPE SHALL BE PLACED ON A FLAT AREA OF CLEAN WASHED 57 STONE TO DISAPATE FLOW AND AVOID EROSION CAUSED BY THE HIGH VELOCITY DISCHARGE.
13.

WATERLINE INSTALLED ACROSS THE PERKIOMEN CREEK SHALL BE CONCRETE ENCASED. THE MATERIAL EXCAVATEDD IN THE CREEK CROSSING SHALL BE STOCKPILED WITHIN THE COFFER DAM, AND THEN PLACED AND COMPACTED IN THE TRENCH PER THE DETAIL. RIVER ROCK SHALL BE PLACED ON THE TOP 6 INCHES OF THE CREEK CROSSING TRENCH.
14.

REMOVE COFFER DAM ONCE CREEK CROSSING INSTALLATION IS COMPLETE.
15.

WATERLINE INSTALLATION ON THE EASTERN SIDE OF THE CREEK SHALL BE BACKFILLED ACCORDING TO THE TRENCH DETAIL AND STABILIZED WITH EROSION BLANKETS AND SEED.
16.

STABILIZE ALL DISTURBED AREAS OUTSIDE OF THE CREEK WITH TOPSOIL, SEED AND EROSION BLANKETS WITHIN 14 CALENDAR DAYS.
17.

WATERLINE INSTALLATION IN BAVINGTON ROAD SHALL BE RESTORED WITH PAVEMENT PER THE DETAIL. CONTRACTOR SHOULDL WORK TO MINIMIZE IMPACT TO THE RESIDENTIAL CUSTOMERS AS MUCH AS POSSIBLE.
18.

PERIMETER CONTROL MEASURES MAY BE REMOVED ONLY AFTER WORK IN AN AREA HAS BEEN COMPLETED AND STABILIZED.

USE/FA		MARK	DATE	DESCRIPTION	BY
PROJ:	103I903401001				
UPPER SALFORD TOWNSHIP, MONTGOMERY CO. PA					
DESN:	EJP	0	4/23/21	90% DESIGN REVIEW SUBMISSION	
DRWN:	JEC	0	5/10/21	90% DESIGN REVIEW SUBMISSION	
CHKD:	EJP	0	7/9/21	PERMIT SUBMISSION	
PHASE 2					
EROSION AND SEDIMENT CONTROL NOTES					

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