

**BEFORE
PENNSYLVANIA PUBLIC UTILITY COMMISSION**

In RE: Application of Pennsylvania American Water for approval of the alteration of the crossing DOT # 588 602 S by the installation of 12" ductile iron water main and 15" polyvinyl chloride sanitary sewer main where Main Street crosses at-grade tracks operated by Norfolk Southern, located in Royersford Borough in Montgomery County, Pennsylvania.	Application Docket No.:
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To the Pennsylvania Public Utility Commission:

1. The name and address of applicant are:

Pennsylvania American Water
171 W Johnson Hwy.
Norristown, PA 19401

2. The name and address of the applicant's attorney is:

Elizabeth Rose Triscari
Pennsylvania-American Water Company
852 Wesley Drive
Mechanicsburg, PA 17055

3. The applicant is Pennsylvania American Water Company, a private utility company.
4. The alteration of the crossing involves the installation of a replacement water main which will be 12" ductile iron carrier pipe within a 20" steel casing using the jack and bore method. The alteration also involves the installation of a replacement sanitary sewer main which will be 15" PVC carrier pipe within a 36" steel casing using the jack and bore method.
5. Affected utilities are: Pennsylvania American Water, Norfolk Southern, and Royersford Borough. No other utilities will be altered. A list of facility owners in the immediate area can be found on the Certificate of Service (attached hereto) and all owners will be notified per that document. The new water main will be installed around the existing utilities.
6. The cost of this portion of the project is estimated to be \$320,000.00.
7. The alteration is necessary or proper for the following reasons: to improve operation, distribution and maintenance of safe, reliable drinking water and fire suppression.

Wherefore, applicant asks your Honorable Commission to approve the application.

Date: 3/20/2024



(Signature)

§ 1.36. Verification

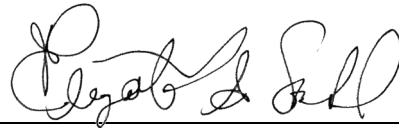
- (a) Applications, petitions, formal complaints, motions and answers thereto containing an averment of fact not appearing of record in the action or containing a denial of fact shall be personally verified by a party thereto or by an authorized officer of the party if a corporation or association. Verification means a signed written statement of fact supported by oath or affirmation or made subject to the penalties of 18 Pa. C.S. §4904 (relating to unsworn falsification to authorities). If verification is required, notarization is not necessary.

- (b) The Verification form should comply substantially with the following:

VERIFICATION

I, Elizabeth Sobel hereby state that the facts above set forth are true and correct (or are true and correct to the best of my knowledge, information and belief) and that I expect to be able to prove the same at a hearing held in this matter. I understand that the statements herein are made subject to the penalties of 18 Pa. C.S. § 4904 (relating to unsworn falsification to authorities).

Date: 3/20/2024

A handwritten signature in cursive script, appearing to read "Elizabeth Sobel", written over a horizontal line.

(Signature)

CERTIFICATE OF SERVICE

I hereby certify that I have this day served a true copy of the foregoing document upon the participants, listed below, in accordance with the requirements of §1.54.

Via Electronic Mail (e-mail) Delivery

PECO
2301 Market St
P.O. Box 8699
Philadelphia, PA 19101
Attn: Engineering Department

Royersford Borough
Public Works Department
300 Main St
Royersford, PA 19468
Attn: Craig Keffer

Pennsylvania American Water
171 W Johnson Hwy
Norristown, PA 19401
Attn: Jim Carr

Verizon Pennsylvania, LLC
7000 Weston Parkway
Cary, NC 27513
Attn: Victor Wood

Verizon Business formerly MCI
400 International Pkwy
Richardson, TX 75081
Attn: Dean Boyers

Lumen formerly Level 3
1025 Eldorado Blvd
Broomfield, CO 80021
Attn: Nolan Snyder

Windstream Enterprise/Wholesale
4005 N Rodney Parham Rd
Little Rock, AR 72212
Attn: Bradley Hahn

Comcast
1250 Haddonfield-Berlin Rd
Cherry Hill, NJ 08034
Attn: Mike Kimberly

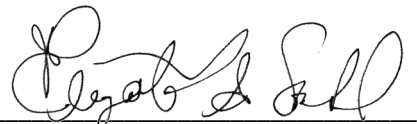
Norfolk Southern
218 Enola Rd
Enola, PA 17025
Attn: Alicia Ruscitto

Montgomery County
Chief Operating Officer
1 Montgomery Plaza, Suite 800
Norristown, PA 19404
Attn: Lauren Lambugo

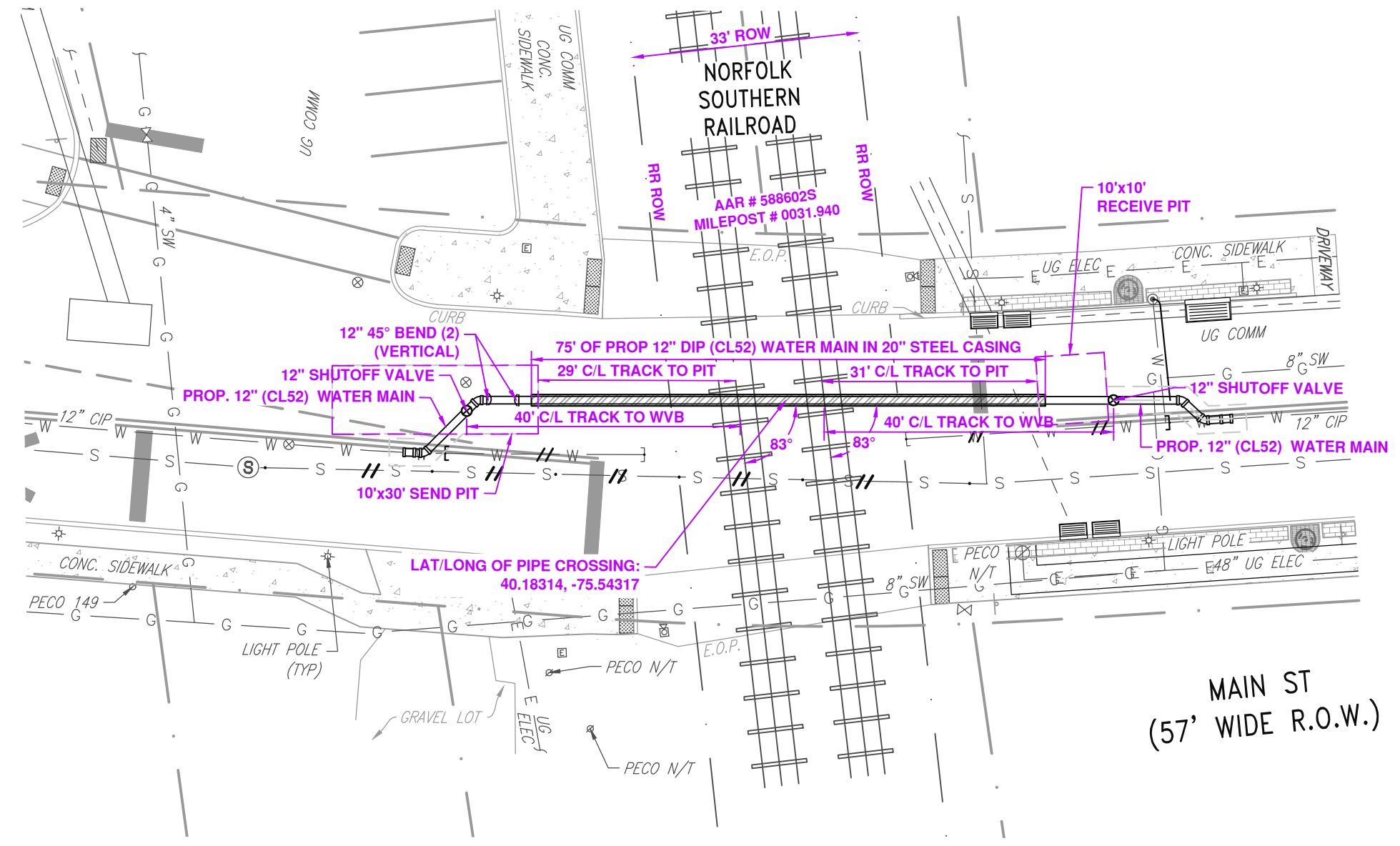
PennDOT District 6-0
7000 Geerdes Boulevard
King of Prussia, PA 19406-1525
Attn: Mary Ann Lang

Department of Transportation
Office of the Chief Counsel
9th Floor, P.O. Box 8212
Harrisburg, PA 17105-8212
Assistant Counsel in Charge: Karen Cummings

Date: 3/20/2024

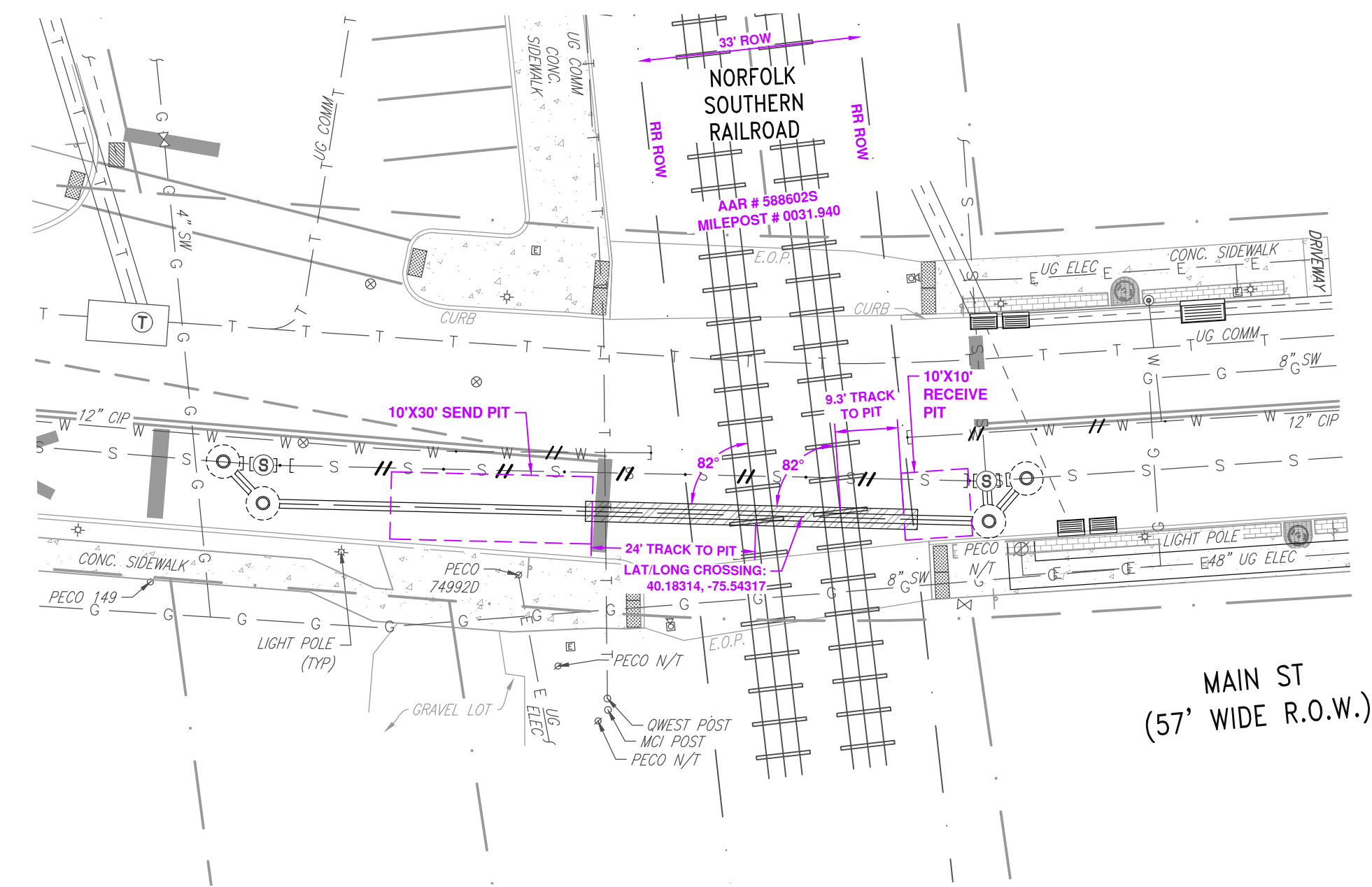


(Signature)



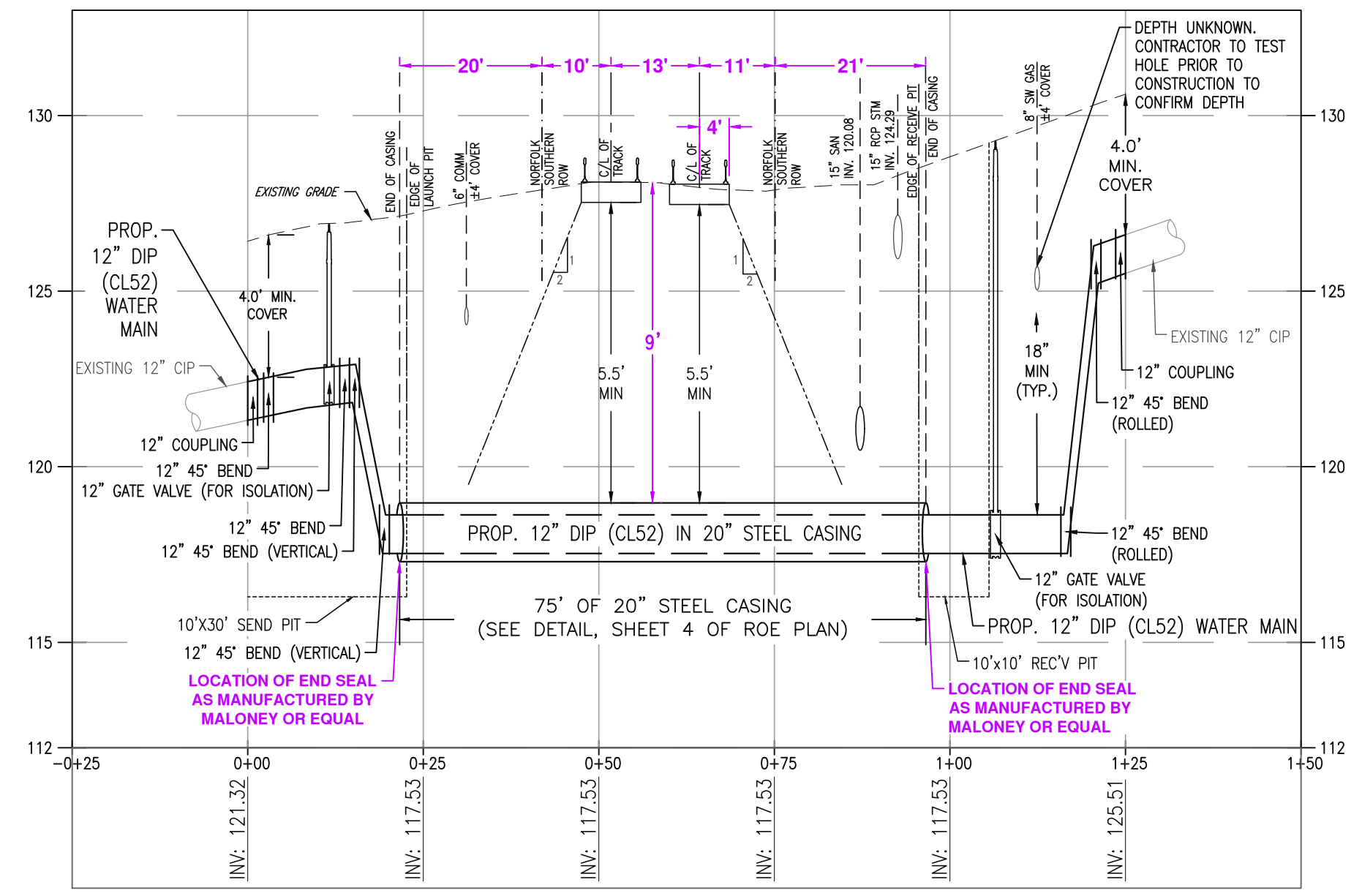
PLAN
SCALE: 1"=20'

MAIN ST
(57' WIDE R.O.W.)

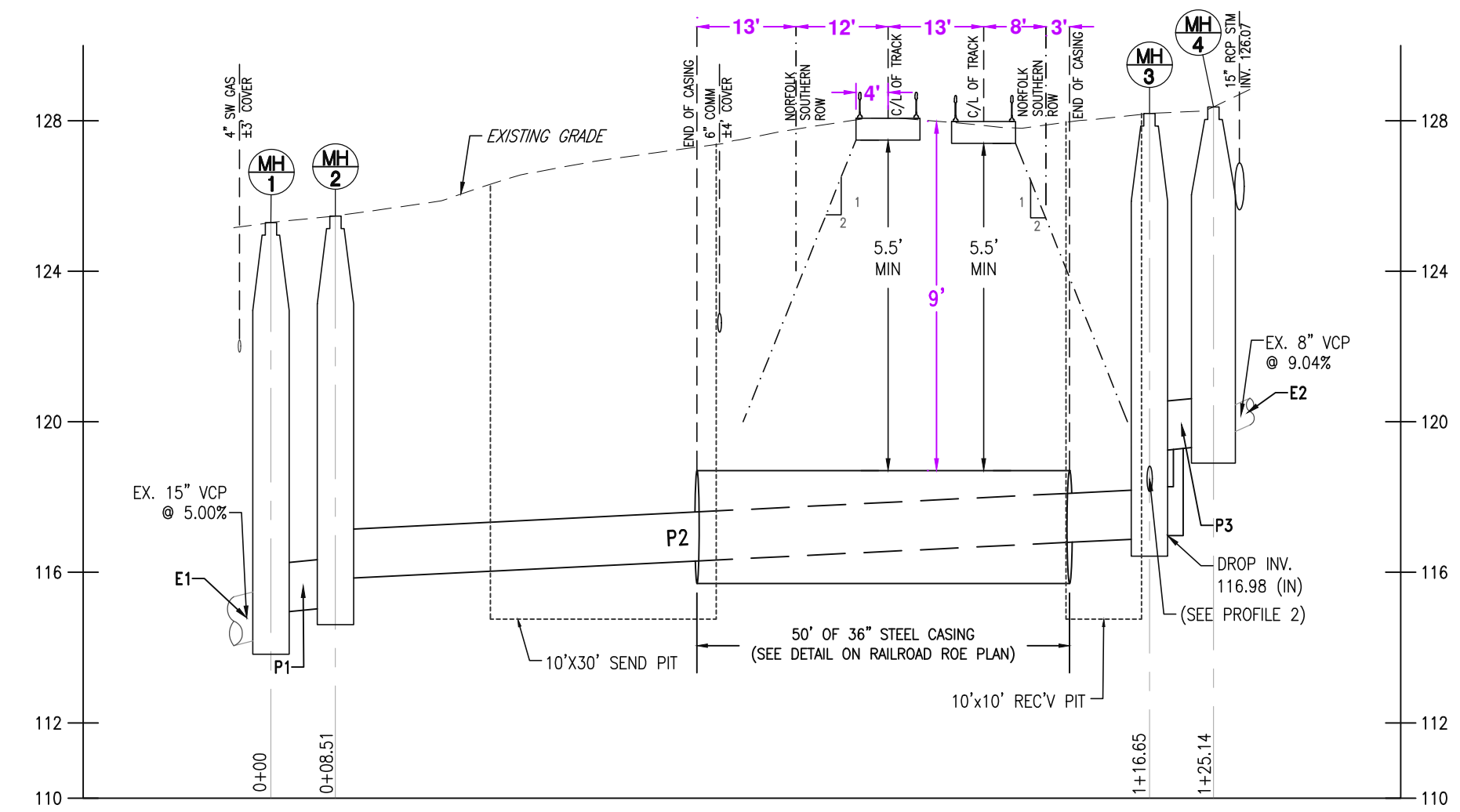


PLAN
SCALE: 1"=20'

MAIN ST
(57' WIDE R.O.W.)



PROFILE
SCALE: HORIZ 1"=20' VERT 1"=4'



PROFILE 1
SCALE: HORIZ 1"=20' VERT 1"=4'



REVISIONS	
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Dial 8-1-1 or 1-800-242-1776
Ticket Serial No. - 20240682271
Date of Ticket - 03/08/2024

NOTICE:
PAWC ADVISES THAT IT HAS COMPLIED WITH THE PROVISIONS OF THE UNDERGROUND UTILITY LINE PROTECTION LAW, ACT 287 OF 1974 AS AMENDED, IN PREPARING THESE DRAWINGS REQUIRING EXCAVATION OR DEMOLITION WORK AT SITES WITHIN THE COMMONWEALTH OF PENNSYLVANIA. PAWC DOES NOT MAKE ANY REPRESENTATION, WARRANTY, ASSURANCE OR GUARANTY THAT THE INFORMATION RECEIVED PURSUANT TO SAID ACT AND REFLECTED ON THESE DRAWINGS IS CORRECT OR ACCURATE OR THAT ALL SUBSURFACE UTILITIES AND STRUCTURES ARE SHOWN, BUT IS REFLECTING SAID INFORMATION ON THESE DRAWINGS IN ACCORDANCE WITH THE REQUIREMENT OF SUCH ACT. CONTRACTORS ARE REMINDED OF THEIR OBLIGATION TO NOTIFY 1-800-242-1776 OR 8-1-1 NOT LESS THAN 3 OR MORE THAN 10 WORKING DAYS PRIOR TO BEGINNING EXCAVATION.
DATE: 04/04/2024 CREATED BY: AJ
REVIEWED BY: JMM

SIGNATURE
PA LICENSED PROFESSIONAL ENGINEER
NO.

Total Engineering
1547 Dekalb Street
Norristown, PA 19401
267.434.1919
TEC
TOTAL ENGINEERING
& CONSULTING SERVICES, LLC
DRAWN BY AJ
PROJECT ENG'R JMM
DATE 04/04/2024
PROJECT

MAIN STREET RAILROAD CROSSING
SEWER AND WATER MAIN REPLACEMENT
ROE PLAN - MAIN STREET
Pennsylvania American Water
ROYERSFORD SERVICE AREA
USE APPROVED DRAWINGS ONLY
FOR CONSTRUCTION PURPOSES
FINAL
USE DIMENSIONS ONLY
SCALE AS SHOWN
SHEET 1 OF 2

GENERAL CONSTRUCTION REQUIREMENTS:

- PROVIDE NOTIFICATION PRIOR TO THE START OF CONSTRUCTION, INCLUDING UPDATED PROJECT SCHEDULE.
- RIGHT OF ENTRY PERMIT MUST BE SECURED PRIOR TO START OF CONSTRUCTION.
- OSHA RULES AND REGULATIONS MUST BE ADHERED TO FOR SAFETY IN EXCAVATIONS, DESIGN, AND SHORING AND SHEETING, ADDITIONALLY, JACK AND BORE PITS SHALL BE FENCED WITH ADEQUATE LIGHTING FOR PUBLIC SAFETY.
- THE TRACK AND RIGHT-OF-WAY MUST BE PROTECTED FROM ANY EROSION CAUSED BY THE PROJECT FIELD WORK.
- THE APPLICANT MUST MAINTAIN ALL SIGNS ON NORFOLK SOUTHERN RIGHT-OF-WAY AS LONG AS THE OCCUPATIONAL AGREEMENT IS IN EFFECT.
- CONSTRUCTION SHALL BE ACCOMPLISHED SO THAT ADEQUATE AND UNINTERRUPTED DRAINAGE IN NORFOLK SOUTHERN RIGHT-OF-WAY IS MAINTAINED.
- ALL PIPELINES (EXCEPT THOSE IN STREETS OR ACCESS ROADS WHERE IT WOULD NOT BE PRACTICAL TO DO SO) SHALL BE PROMINENTLY MARKED AT THE RIGHT-OF-WAY LINES (ON BOTH SIDES OF TRACK FOR CROSSINGS) BY DURABLE, WEATHERPROOF SIGNS LOCATED OVER THE CENTERLINE OF THE PIPE. SIGNS SHALL SHOW THE FOLLOWING:
 - NAME AND ADDRESS OF APPLICANT
 - CONTENTS OF PIPE
 - PRESSURE IN PIPE
 - EMERGENCY TELEPHONE NUMBER
- BORED, JACKED OR TUNNELED INSTALLATIONS SHALL HAVE A BORE HOLE ESSENTIALLY THE SAME AS THE OUTSIDE DIAMETER OF THE PIPE PLUS THE THICKNESS OF THE PROTECTIVE COATING.
- THE USE OF WATER OR OTHER LIQUIDS TO FACILITATE CASING EMBLACEMENT AND SPOIL REMOVAL IS PROHIBITED EXCEPT WHEN USED IN CONJUNCTION WITH DIRECTIONAL BORING METHOD "A". SEE SECTION 5.1.6 OF "SPECIFICATIONS FOR PIPELINE OCCUPANCY OF NORFOLK SOUTHERN CORPORATION PROPERTY".
- IF DURING INSTALLATION AN OBSTRUCTION IS ENCOUNTERED WHICH PREVENTS INSTALLATION OF THE PIPE IN ACCORDANCE WITH THIS SPECIFICATION, THE PIPE SHALL BE ABANDONED IN PLACE AND IMMEDIATELY FILLED WITH GROUT. A NEW INSTALLATION PROCEDURE AND REVISED PLANS MUST BE SUBMITTED TO, AND APPROVED BY, NORFOLK SOUTHERN BEFORE WORK CAN RESUME.
- TRACK AND GROUND MONITORING IS REQUIRED IN ACCORDANCE WITH SECTION 5.1.2 OF THE "SPECIFICATIONS FOR PIPELINE OCCUPANCY FOR NORFOLK SOUTHERN CORPORATION PROPERTY".
- BORE AND JACK OPERATION SHALL BE PROGRESSED ON A 24-HOUR BASIS WITHOUT STOPPAGE IN ZONE 1,2, AND 3 AS INDICATED IN PLATE VIII (EXCEPT FOR ADDING LENGTHS OF PIPE) UNTIL THE LEADING EDGE OF THE PIPE HAS REACHED THE RECEIVING PIT. SEE SECTION 5.1.4 OF THE "PIPELINE OCCUPANCY OF NORFOLK SOUTHERN CORPORATION PROPERTY" FOR REQUIREMENTS.
- CASINGS FOR CARRIER PIPES OF NON-FLAMMABLE SUBSTANCES SHALL HAVE BOTH OF THE CASING BLOCKED UP IN SUCH A WAY AS TO PREVENT THE ENTRANCE OF FOREIGN MATERIAL BUT ALLOWING LEAKAGE TO PASS IN THE EVENT OF A CARRIER BREAK.
- ACCESSIBLE EMERGENCY SHUT OFF VALVES SHALL BE INSTALLED WITHIN EFFECTIVE DISTANCES EACH SIDE OF THE RAILROAD AT LOCATIONS SELECTED BY NS WHERE HAZARD TO LIFE AND PROPERTY MUST BE GUARDED AGAINST. NO ADDITIONAL VALVES WILL BE REQUIRED WHERE PIPELINES ARE PROVIDED WITH AUTOMATIC CONTROL STATIONS AND WITHIN DISTANCES APPROVED BY NS.
- BLASTING NOT PERMITTED.
- ALL OPERATIONS SHALL BE CONDUCTED SO AS NOT TO INTERFERE WITH, INTERRUPT, OR ENDANGER THE OPERATION OF TRAINS NOR DAMAGE, DESTROY, OR ENDANGER THE INTEGRITY OF RAILROAD FACILITIES. ALL WORK ON OR NEAR NORFOLK SOUTHERN PROPERTY SHALL BE CONDUCTED IN ACCORDANCE WITH NORFOLK SOUTHERN SAFETY RULES AND REGULATIONS. THE CONTRACTOR SHALL SECURE AND COMPLY WITH THE NORFOLK SOUTHERN SAFETY RULES AND REGULATIONS. THE CONTRACTOR SHALL GIVE WRITTEN ACKNOWLEDGEMENT TO NORFOLK SOUTHERN THAT THEY HAVE BEEN RECEIVED, READ AND UNDERSTOOD BY THE CONTRACTOR AND ITS EMPLOYEES. OPERATIONS WILL BE SUBJECT TO NORFOLK SOUTHERN MONITORING AT ANY AND ALL TIMES.

MAIN STREET PIPE DATA TABLE (WATER)

PIPE CROSSING DATA	CARRIER PIPE	CASING PIPE
CONTENTS TO BE HANDLED	WATER	NONE
MAX. OPERATING PRESSURE (PSI)	100	N/A
NOMINAL PIPE SIZE (")	12.00	20.00
O.S. DIAMETER (")	13.20	19.00
I.S. DIAMETER (")	12.46	0.50
WALL THICKNESS (")	0.37	83
WEIGHT PER FOOT (LBS)	45.60	104.30
MATERIAL	DUCTILE IRON	STEEL
PROCESS OF MANUFACTURE	CENTRIFUGALLY CAST	WELDED ROUND PIPE
SPECIFICATION	AWWA C150/C151	ASTM 53 & AWWA C200
GRADE OR CLASS	THICKNESS CLASS 52	A53 GRADE B
TEST PRESSURE (PSI)	200	N/A
TYPE OF JOINT	MECHANICAL	WELDED
TYPE OF COATING	BITUMASTIC	BITUMASTIC
DETAILS OF CATHODIC PROTECTION	COATING	WRAP OR COATING
DETAILS OF SEAL OR PROTECTION AT ENDS OF CASING	N/A	FLEXIBLE OIL/WATER RESISTANT RUBBER END SEALS
CHARACTER OF SUBSURFACE MATERIAL	N/A	N/A
APPROXIMATE GROUND WATER LEVEL	N/A	N/A
SOURCE OF INFORMATION ON SUBSURFACE CONDITIONS	N/A	N/A
METHOD OF INSTALLATION	OTHER: PUSHING	BORE AND JACK

MAIN STREET PIPE DATA TABLE (SANITARY)

PIPE CROSSING DATA	CARRIER PIPE	CASING PIPE
CONTENTS TO BE HANDLED	SANITARY SEWER	NONE
MAX. OPERATING PRESSURE (PSI)	N/A	N/A
NOMINAL PIPE SIZE (")	15.00	36.00
O.S. DIAMETER (")	15.30	36.00
I.S. DIAMETER (")	14.12	35.38
WALL THICKNESS (")	0.59	0.31
WEIGHT PER FOOT (LBS)	18.90	119.03
MATERIAL	POLYVINYL CHLORIDE	STEEL
PROCESS OF MANUFACTURE	EXTRUSION & INJECTION MOLDING	WELDED ROUND PIPE
SPECIFICATION	ASTM D3034	ASTM 53 & AWWA C200
GRADE OR CLASS	SDR 26	A53 GRADE B
TEST PRESSURE (PSI)	N/A	N/A
TYPE OF JOINT	GASKET	WELDED
TYPE OF COATING	N/A	BITUMASTIC
DETAILS OF CATHODIC PROTECTION	N/A	WRAP OR COATING
DETAILS OF SEAL OR PROTECTION AT ENDS OF CASING	N/A	FLEXIBLE OIL/WATER RESISTANT RUBBER END SEALS
CHARACTER OF SUBSURFACE MATERIAL	N/A	N/A
APPROXIMATE GROUND WATER LEVEL	N/A	N/A
SOURCE OF INFORMATION ON SUBSURFACE CONDITIONS	N/A	N/A
METHOD OF INSTALLATION	OTHER: PUSHING	BORE AND JACK

TRENCH EXCAVATION SIZING:

THE EXCAVATION AND BACK-FILL WORK SHALL CONFORM TO THE AWWA STANDARD C-600 FOR THE INSTALLATION OF DUCTILE IRON WATER MAINS AND THEIR APPURTENANCES, PLUS CHANGES AND ADDITIONS THERETO.

ALL FEDERAL, STATE AND MUNICIPAL, INCLUDING OSHA REGULATIONS GOVERNING WORK OF THIS NATURE SHALL BE COMPLIED WITH BY THE CONTRACTOR.

DIMENSIONS FOR EXCAVATION WILL BE ACCORDING TO THE DEPTH AND WIDTH SPECIFIED FOR THE PIPE SIZE. THE DEPTH OF THE TRENCH WILL BE SUCH SO THE PROPOSED MAIN HAS THE DEPTH OF COVER OF (4.00) FOUR FEET, OR AS SHOWN ON THE DRAWINGS.

EXCEPT AT LOCATIONS WHERE ROCK OR UNSUITABLE MATERIAL IS ENCOUNTERED, EXTRA CARE SHOULD BE TAKEN NOT TO EXCEED THE DEPTH SPECIFIED. IF THE EXCAVATION DOES EXCEED THE PROPOSED DEPTH, THE BOTTOM OF THE TRENCH SHOULD BE

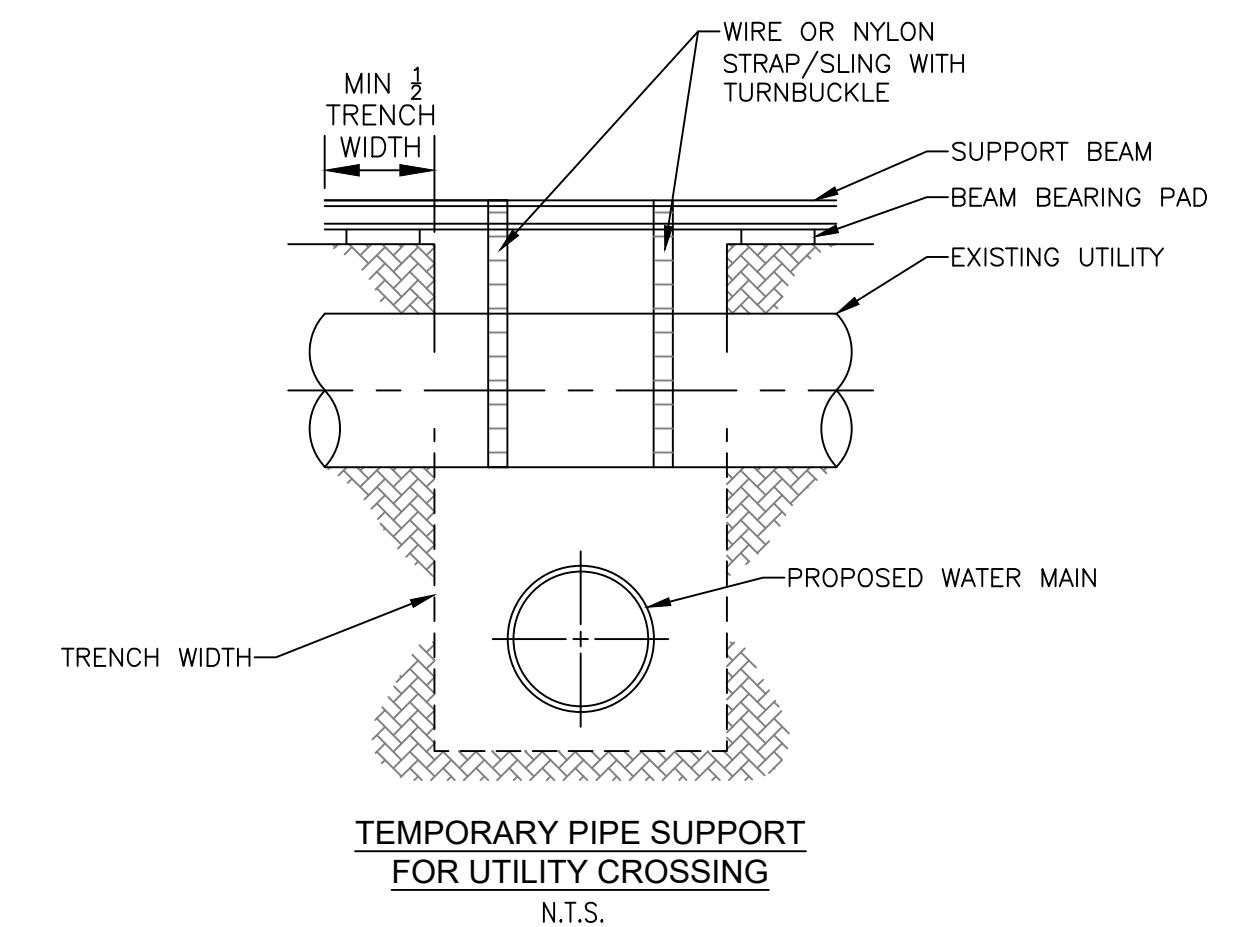
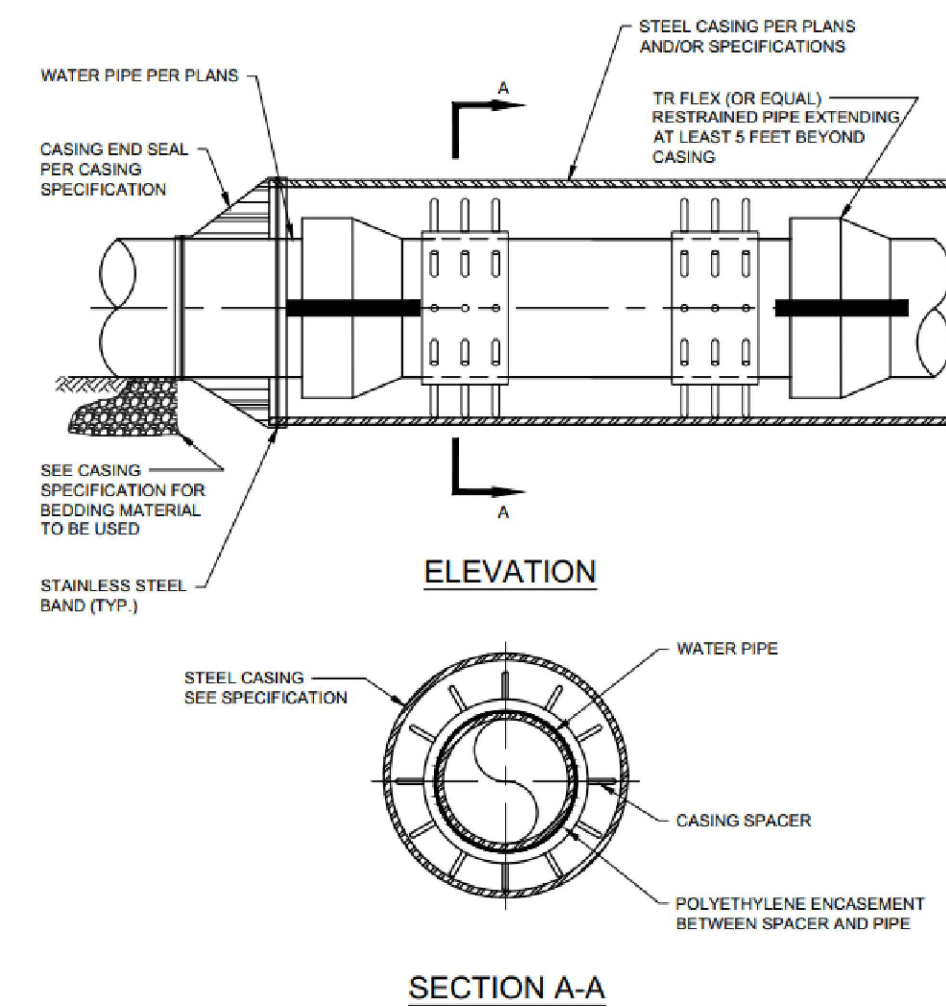
BACK-FILLED IN SIX-INCH LIFTS AND PROPERLY COMPACTED UNTIL THE DESIRED LEVEL IS REACHED TO LAY THE PIPE.

SUB-GRADE MATERIAL MUST BE SUITABLE.

THE FOLLOWING ARE THE REQUIRED TRENCH SIZES FOR THE RESPECTIVE PIPE DIAMETERS: UP TO AND INCLUDING:

SERVICES -	2.50' TRENCH WIDTH	20" PIPE -
4.50' TRENCH WIDTH	6" PIPE -	24" PIPE -
4.50' TRENCH WIDTH	8" PIPE -	30" PIPE -
5.00' TRENCH WIDTH	12" PIPE -	36" PIPE -
5.50' TRENCH WIDTH	16" PIPE -	42" PIPE -
6.00' TRENCH WIDTH		

IN AREAS OF EXISTING ROADWAY, THE EXCAVATION SHALL BE COMPLETELY CLOSED AT THE END OF EACH WORK DAY. THE CONTRACTOR SHALL PROVIDE TEMPORARY RESTORATION OF ROADWAY IMMEDIATELY UPON BACK-FILLING THE TRENCH.



REVISIONS	
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Dial 8-1-1 or 1-800-242-1776
Ticket Serial No. - 20240682271

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DATE: 04/04/2024 CREATED BY: AJ
REVIEWED BY: JMM

SIGNATURE
PA LICENSED PROFESSIONAL ENGINEER
NO. PE076094

Total Engineering
1547 Dekalb Street
Norristown, PA 19401
267.434.1919



DRAWN BY AJ
PROJECT ENG'R JMM

DATE 04/04/2024

PROJECT

**MAIN STREET RAILROAD CROSSING
SEWER AND WATER MAIN REPLACEMENT
ROE DETAILS - MAIN STREET**

Pennsylvania American Water

ROYERSFORD SERVICE AREA

USE DIMENSIONS ONLY
SCALE AS SHOWN

USE APPROVED DRAWINGS ONLY
FOR CONSTRUCTION PURPOSES

FINAL

SHEET 2 OF 2