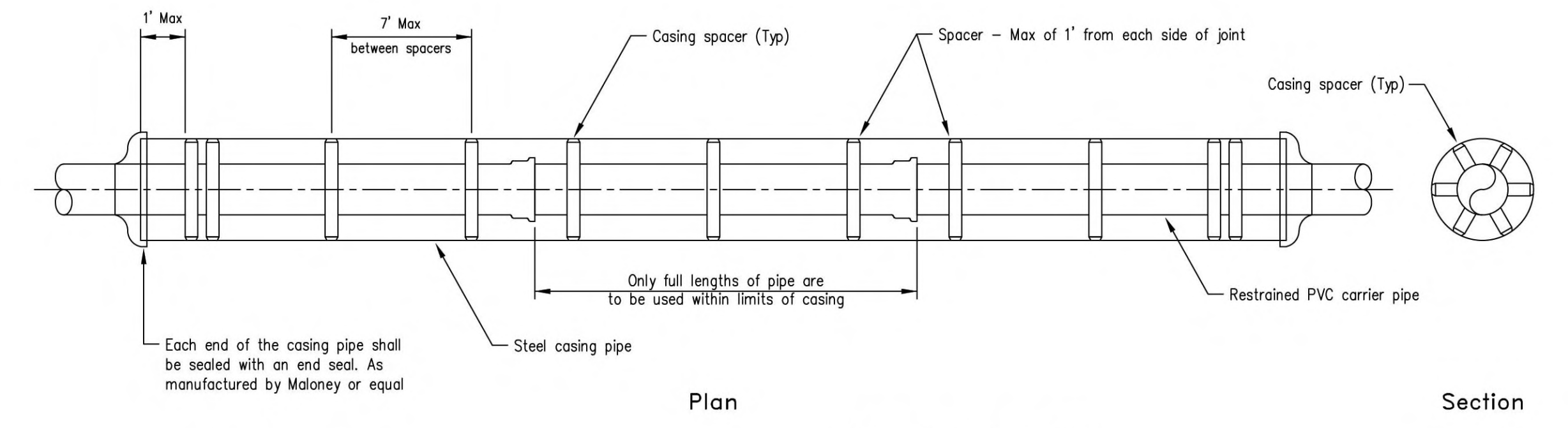




SEPTA ELEVATED RAIL
DOT AAR # 592 997 X
RR MILEPOST #9.22

CUT, PLUG (M), & FILL EXISTING 6" CI MAIN
(6" CI 4994-E C-5499) WITHIN THE LIMITS
SHOWN. FILL SHALL MEET THE REQUIREMENTS
OF SEPTA AND SHALL BE A MINIMUM OF 2,000
PSI GROUT OR FLOWABLE FILL.

TYPICAL PVC WATER MAIN WITH STEEL CASING AND SPACERS



STEEL CASING PIPE NOTES:

- ALL CASING PIPE UP TO 24" DIAMETER SHALL BE ASTM A53 GRADE B, 0.50" WALL THICKNESS, STANDARD WEIGHT, MANUFACTURED IN ACCORDANCE WITH AWWA C200.
- CASING PIPE SHALL BE REQUIRED FOR WATER MAINS CROSSING OVER AND UNDER HIGHWAYS, RAILROADS, OR ANY OTHER LOCATION WHERE A LEAKING PIPE CAN CREATE A HAZARDOUS CONDITION. IN GENERAL, CASING PIPE IS NOT REQUIRED FOR MAINS CROSSING BODIES OF WATER.
- ALL EXPOSED CASING PIPE SHALL BE SHOP BLASTED AND COATED EXTERNALLY IN ACCORDANCE WITH THE STATE DOT PAINT SPECIFICATION FOR STRUCTURAL STEEL.
- ALL STEEL PIPE BELOW GRADE SHALL BE WRAPPED WITH PROTECTO-WRAP 310, COLD APPLIED PIPE TAPE OR CARBOLINE COATING. IN CASES WHERE STEEL PIPE RUNS ABOVE GRADE, COATING SHALL EXTEND TO A MINIMUM OF 18" BEYOND FINISHED GRADE. IF APPLICABLE, REFER TO THE CATHODIC PROTECTION PLAN FOR ADDITIONAL CORROSION PROTECTION MEASURES.
- IN CASES WHERE STEEL PIPE IS TO BE WELDED IN THE FIELD, PIPE SHALL BE ORDERED WITHOUT COATING 6" FROM EACH END TO ALLOW FOR BEVELING AND WELDING IN THE FIELD.
- ALL WELDERS SHALL BE CERTIFIED IN ACCORDANCE WITH THE API 1104 CODE OR AN APPROVED EQUAL. CONTRACTOR SHALL PROVIDE OWNER WITH EVIDENCE OF CURRENT WELDER QUALIFICATION PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
- ALL PRODUCTION WELDS SHALL BE PERFORMED, TESTED AND INSPECTED IN CONFORMANCE WITH THE CURRENT EDITION OF AWWA C206.
- ANY WELDER WHO MAKES A PRODUCTION WELD THAT FAILS TO COMPLY WITH THE REQUIREMENTS OF AWWA C206 MAY BE IMMEDIATELY DISQUALIFIED FROM CURRENT AND/OR FUTURE WORK AT THE DISCRETION OF THE OWNER.
- STEEL CASING SHALL BE SO CONSTRUCTED AS TO PREVENT LEAKAGE OF ANY SUBSTANCE FROM THE CASING THROUGHOUT ITS LENGTH EXCEPT AT ENDS. CASING SHALL BE SO INSTALLED AS TO PREVENT THE FORMATION OF A WATERWAY UNDER THE RAILROAD, WITH AN EVEN BEARING THROUGHOUT ITS LENGTH, AND SHALL SLOPE TO ONE END.

SEPTA CONSTRUCTION REQUIREMENTS

- OSHA RULE AND REGULATIONS MUST BE ADHERED TO FOR SAFETY IN EXCAVATIONS, THE DESIGN AND THE SHORING OF THE BORING PITS. ADDITIONALLY, 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.
- SUPPORT OF EXCAVATION (SOE) DESIGN IS THE RESPONSIBILITY OF THE CONTRACTOR. SOE DESIGN TO BE SUBMITTED TO SEPTA FOR REVIEW PRIOR TO CONSTRUCTION.
- PROVIDE EVIDENCE THAT SEPTA'S INSURANCE REQUIREMENTS, AS DETERMINED BY SEPTA'S RISK MANAGEMENT OFFICE, HAVE BEEN MET.
- ALL PERSONNEL INVOLVED IN THE FIELD WORK PORTION OF THE PROJECT, AND WHO'S DUTIES MIGHT INVOLVE ENTERING THE SEPTA RIGHT-OF-WAY, WILL BE REQUIRED TO ATTEND A FOUR HOUR SEMINAR IN ORDER TO OBTAIN SAFETY CERTIFICATION, AS MANDATED BY SEPTA AND THE FEDERAL RAILROAD ADMINISTRATION. THE ROADWAY WORKER SAFETY SEMINAR IS HELD BI-WEEKLY AT SEPTA'S MAIN OFFICE, 1234 MARKET STREET IN PHILADELPHIA. CONTACT SEPTA A MINIMUM OF 3 WEEKS IN ADVANCE OF WORK COMMENCING TO SCHEDULE ATTENDANCE FOR PROJECT PERSONNEL.
- PROVIDE NOTIFICATION PRIOR TO THE START OF CONSTRUCTION, INCLUDING UPDATED PROJECT SCHEDULES.
- STAINLESS STEEL CASING SPACERS SPECIFIED SHALL HAVE TWO PIECE STAINLESS BAND WITH POLYETHYLENE RUNNER HEIGHT OF ONE AND A HALF INCHES. RECOMMENDED PLACEMENT OF SPACERS ARE 3 PER 18-20 FT. LENGTH OF PIPE. SPACERS SHALL BE ADVANCED PRODUCT SYSTEMS, (337) 322-6116 OR APPROVED EQUAL.
- A RIGHT OF ENTRY PERMIT MUST BE SECURED PRIOR TO START OF CONSTRUCTION.
- A SIGN IDENTIFYING THE BURIED UTILITY AND EMERGENCY SHUTOFF VALVES WILL BE INSTALLED AT THE PIPE LOCATION. THE SIGN SHALL INCLUDE THE FACILITY OWNER NAME (AQUA) AND CONTACT NUMBER.

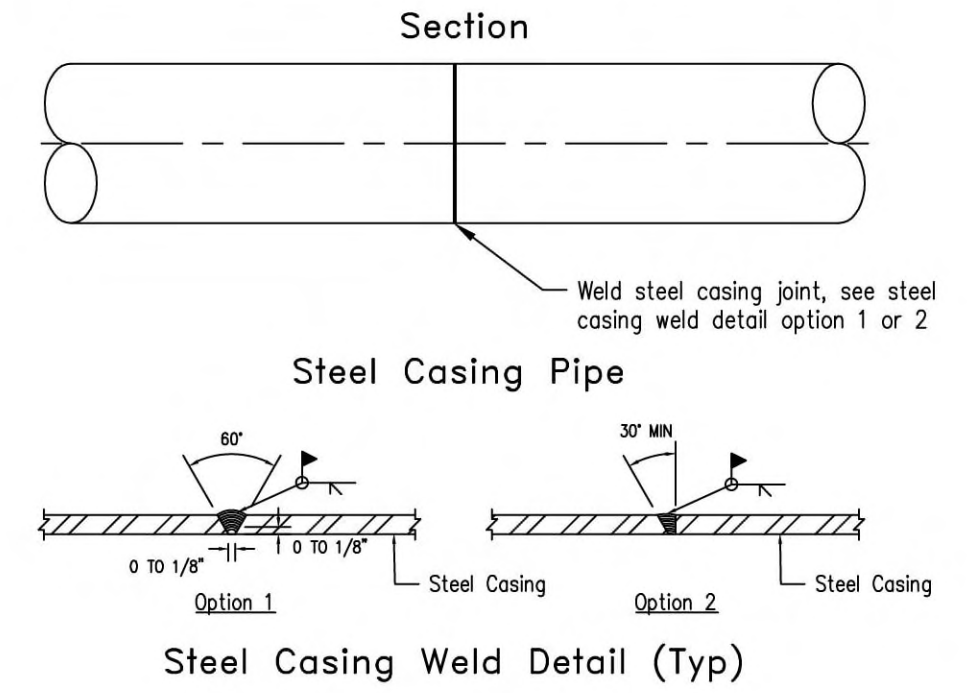
TOOL BOX MEETINGS:

THE CONTRACTOR'S SUPERINTENDENT OR SAFETY OFFICER SHALL HOLD DAILY "TOOL BOX" JOB BRIEFINGS WITH ALL CONTRACTOR PERSONNEL. SUBJECTS, TIME, AND LOCATION CAN BE SET AT THE CONTRACTOR'S CONVENIENCE. SEPTA REQUIRES 3 BUSINESS DAYS PRIOR NOTICE, OR A SCHEDULE OF SUCH TOOL BOX MEETINGS. THIS NOTICE SHALL INCLUDE LOCATION AND AGENDA.

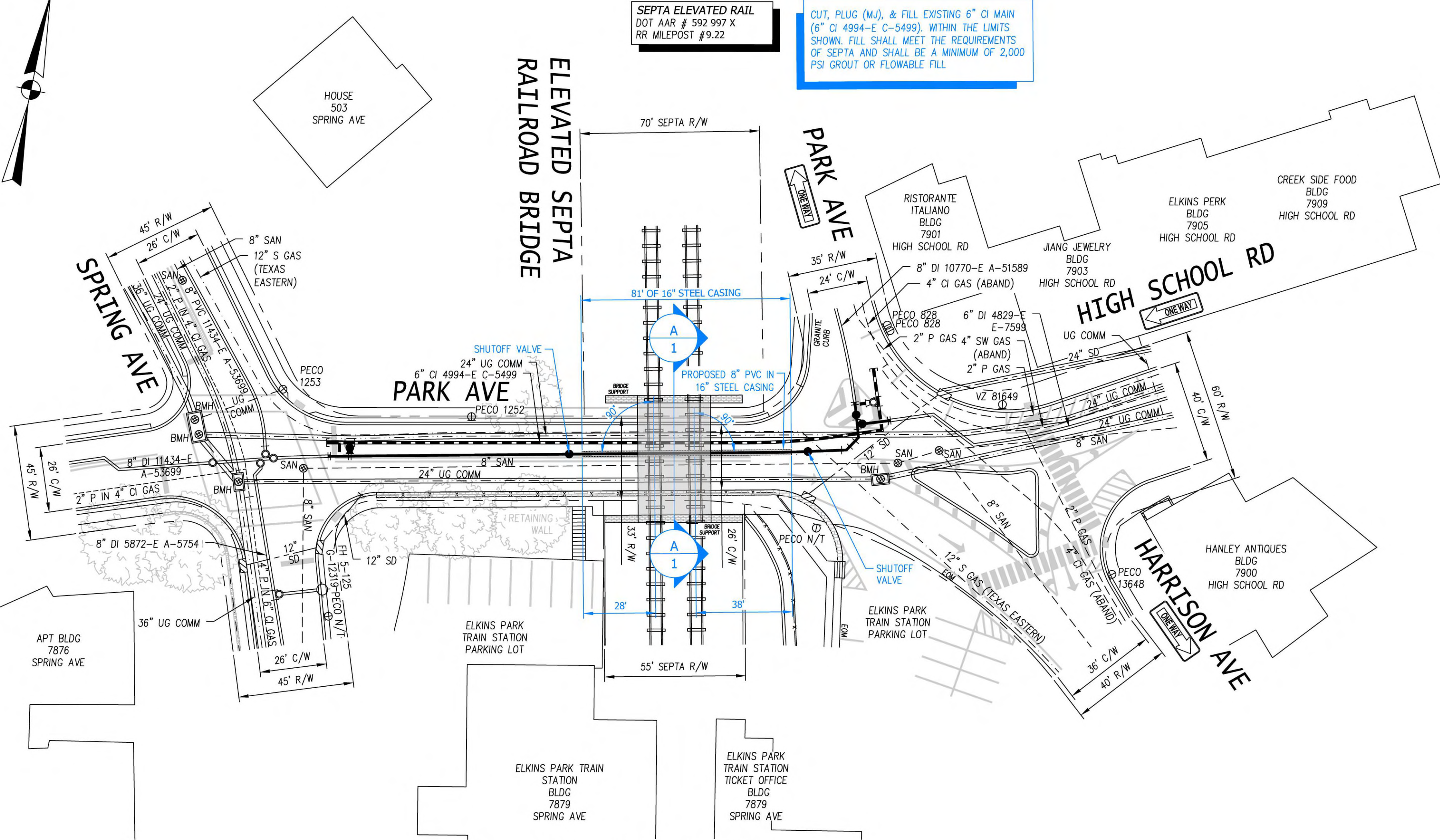
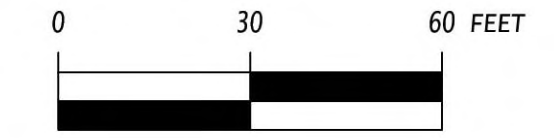
PVC CARRIER PIPE NOTES:

- ALL RESTRAINED PVC PIPE SHALL BE AWWA C900-16 UL 1285 (MIN.).

Nominal Pipe Diameter	Minimum Nominal Casing I.D.
8"	16"
10"	18"
12"	20"
16"	24"
20"	36"

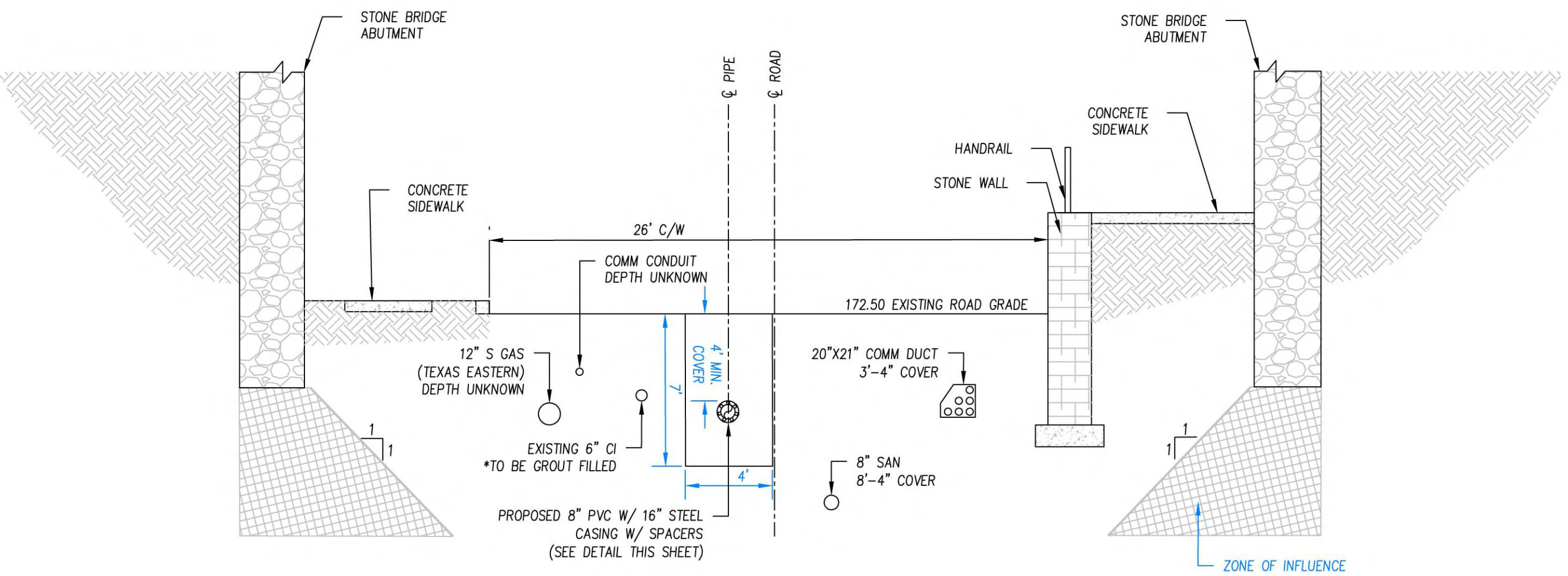


SCALE



PLAN FOR WATERMAIN REPLACEMENT
PARK AVE AT RAILROAD BRIDGE
SCALE - 1"=30'

PIPE CROSSING DATA	CARRIER PIPE	CASING PIPE
CONTENTS TO BE HANDLED	WATER	NONE
OPERATING PRESSURE (PSI)	100	N/A
NOMINAL PIPE SIZE (")	8"	16"
O.S. DIAMETER (")	9.05"	17.40"
I.S. DIAMETER (")	7.68"	16.60"
WALL THICKNESS (")	0.646" (MIN.)	0.500
WEIGHT PER FOOT (LBS)	11.60	186
MATERIAL	POLYVINYL CHLORIDE (PVC)	STEEL
PROCESS OF MANUFACTURE	EXTRUSION - MOLDED	WELDED ROUND PIPE
SPECIFICATION	AWWA C900	ASTM A53 & AWWA C200
GRADE OR CLASS	SDR 14	A53 GRADE B
WORKING PRESSURE (PSI)	305	N/A
TYPE OF JOINT	RESTRAINED	WELDED
TYPE OF COATING	N/A	BITUMASTIC
DETAILS OF CATHODIC PROTECTION	N/A	WRAP OR COATING
DETAILS OF SEAL OR PROTECTION AT ENDS OF COATING	N/A	FLEXIBLE OIL/WATER RESISTANT RUBBER END SEALS
METHOD OF INSTALLATION	PUSHING	TRENCHING
SPECIFIC MIN. YIELD STRENGTH	15,000 PSI	35,000 PSI



SECTION A-A (LOOKING EAST)
PARK AVE AT RAILROAD BRIDGE
US DOT AAR # 592 997 X
MILEPOST 9.22
SCALE 1"=5'

A-2025-3059480

CERTIFIED CORRECT PLANS
Professional Engineer
Approved by Bureau of Technical Utility Services
PA PUBLIC UTILITY COMMISSION
ATTEST
Secretary



NO	DATE	REVISION	INTL
0		ISSUED FOR CONSTRUCTION	
0		DESIGN COMPLETION	

AQUA PENNSYLVANIA, INCORPORATED
762 LANCASTER AVENUE, BRYN MAWR, PA., 19010

PROJECT PLAN FOR:
ELKINS PARK SEPTA CROSSING PROJECT
PARK AVE & HIGH SCHOOL RD
CHELTONHAM TOWNSHIP, MONTGOMERY COUNTY

DRAWN BY: CAP	CHK'D BY: JMM/AJC	EXT No: 21030-E
DATE: 02/11/2025	SCALE: 1"=30'	PLATE: R18
PROJECT No: 400.19	CPA ID No: 11082849	A - 68962
APPROVED		SHEET 3 OF 10