TILDEN AVE., S. BRIDGE ST., COCHRAN RD. WATER DISTRIBUTION IMPROVEMENTS

TOWN MANAGER
JOSH ARNESON

SELECTBOARD
DAVID SANDER, CHAIR
LISA MILLER, VICE-CHAIR
JAY FURR
BARD HILL
ADAM WOOD

WATER/SEWER COMMISSION
MORGAN WOLAVER, CHAIR
ERIN FARR, VICE-CHAIR
BARD HILL
JAY FURR
LISA MILLER

GENERAL & CONSTRUCTION NOTES

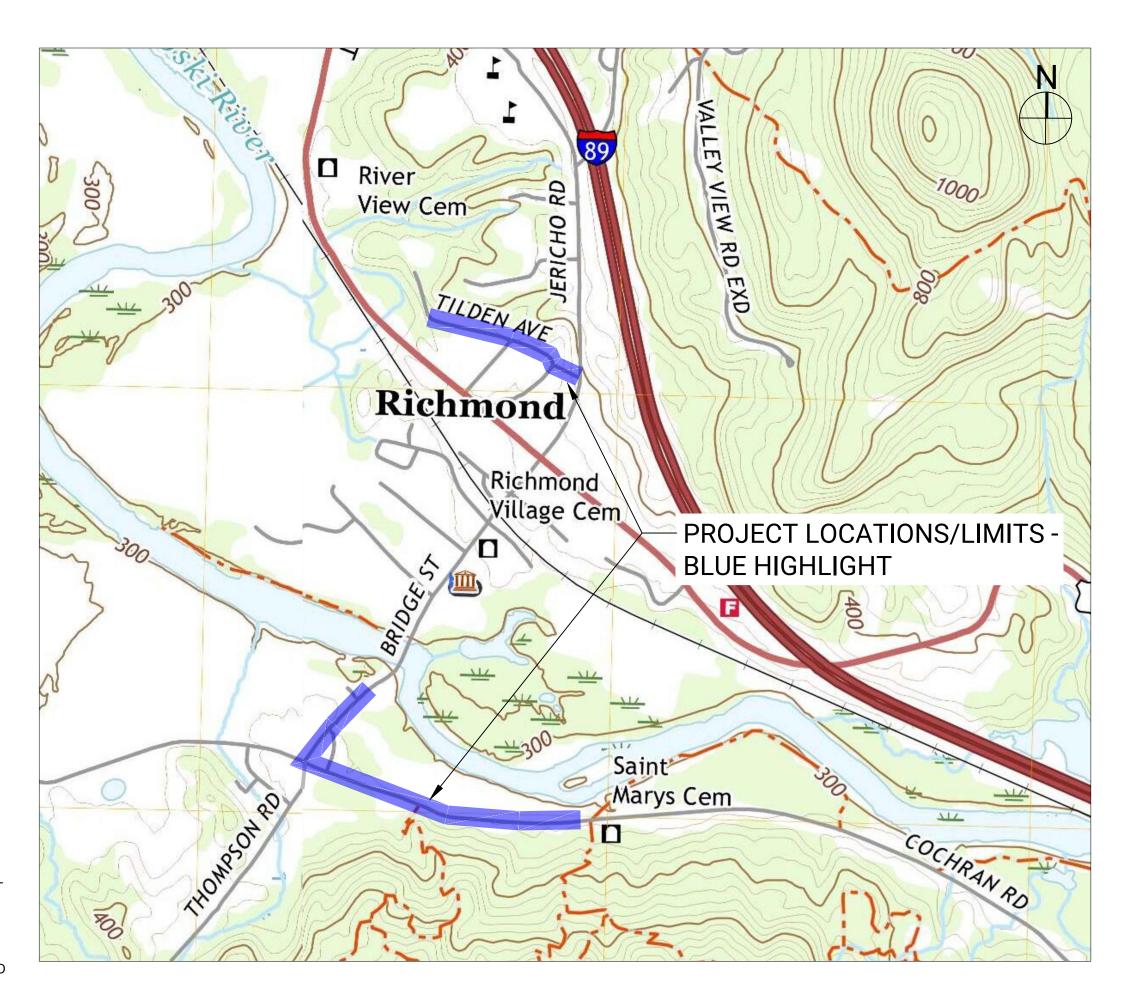
- 1. TO CLARIFY THE PLANS, ALL EXISTING SITE FEATURES ARE SHOWN IN lowercase LETTERS AND ALL PROPOSED IMPROVEMENTS ARE SHOWN IN CAPITAL LETTERS.
- 2. THIS PLAN SHOWS APPROXIMATE SITE FEATURES, UTILITIES, TAX MAP BOUNDARY LINES, BUILDINGS, AND OTHER SITE FEATURES BASED ON A SURVEY COMPLETED BY EAST ENGINEERING. ADDITIONAL DEPICTIONS ARE BASED ON INFORMATION FROM THE VERMONT GEODATA PORTAL, OWNER, AND UTILITY COMPANIES. THIS IS NOT A BOUNDARY SURVEY. WATER AND SEWER SERVICES ARE NOT SHOWN ON THE PLANS, HOWEVER, BOTH MUST BE MAINTAINED BY THE CONTRACTOR DURING CONSTRUCTION.
- 3. TECHNICAL SPECIFICATIONS ACCOMPANY THE PLANS AND ARE ESSENTIAL FOR CONSTRUCTION. UNLESS OTHERWISE NOTED, THE TOWN OF RICHMOND PUBLIC IMPROVEMENTS STANDARDS (2016) SHALL BE STRICTLY ADHERED TO.
- ALL TRAFFIC CONTROL EFFORTS SHALL MEET OR EXCEED MUTCD APPLICABLE STANDARDS. ONE LANE TRAFFIC SHALL BE MAINTAINED
 AT ALL TIMES DURING WORKING HOURS. TWO LANES OF TRAFFIC SHALL BE OPENED AT THE END OF EACH WORKING DAY. TRAFFIC ON
 BRIDGE STREET CANNOT BE REDUCED TO ONE LANE UNTIL 8:30 A.M. AND MUST BE RETURNED TO TWO LANES BY 4:00 P.M. ALL
 DRIVEWAYS SHALL MAINTAIN ACCESS AT ALL TIMES.
- 7. JOBSITE SAFETY, SECURITY, MEANS/METHODS ARE THE RESPONSIBILITY OF THE CONTRACTOR. ALL OSHA/VOSHA RULES AND REGULATIONS SHALL BE ADHERED TO AT ALL TIMES. AT THE END OF EACH WORKING DAY, ALL TRENCHES SHALL BE TEMPORARILY BACKFILLED OR PLATED.
- 3. ALL DISTURBED AREAS SHALL BE RESTORED TO PRE-CONSTRUCTION CONDITIONS, OR BETTER. THIS INCLUDES DRIVEWAYS, WALKWAYS, GARDENS, PLANTINGS/VEGETATION/FLOWERS, MAILBOXES, AND YARDS.
- ALL WORK, STORAGE, AND EQUIPMENT SHALL BE MAINTAINED IN THE TOWN ROAD RIGHT-OF-WAY, UNLESS OTHERWISE NOTED BY THE
 ENGINEER AND TOWN. IF THE CONTRACTOR REQUIRES ADDITIONAL SPACE, THEY MUST OBTAIN AT THEIR OWN COST.
 ALL WASTE ITEMS FROM CONSTRUCTION MUST BE LEGALLY DISPOSED OF THIS INCLUDES ASBESTOS CEMENT PIPE SECTIONS THAT
- ARE REMOVED. ASBESTOS CEMENT DISPOSAL MUST ADHERE TO THE STATE OF VERMONT STANDARDS.

 11. CONTRACTOR IS REQUIRED TO MAINTAIN RECORD DRAWINGS. ALL WATERMAIN FITTINGS AND VALVES SHALL HAVE A MINIMUM OF THREE SWING TIES, CLEARLY MARKED AND MEASURED. AT THE END OF CONSTRUCTION HAND-WRITTEN RECORD DRAWINGS WILL BE
- THREE SWING TIES, CLEARLY MARKED AND MEASURED. AT THE END OF CONSTRUCTION HAND-WRITTEN RECORD DRAWINGS WILL E GIVEN TO THE ENGINEER FOR DIGITIZING.

 12. UNFORESEEN SUBSURFACE CONDITIONS SHALL REPORTED TO THE ENGINEER IMMEDIATELY. ENGINEER WILL REVIEW AND PROVIDE
- DIRECTION TO CONTRACTOR.

 13. CONTRACTOR SHALL IMPLEMENT EROSION PREVENTION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES IN THE DISTURBED
- AREAS. THIS INCLUDES CATCH BASIN INLET FILTER FABRIC ON ALL CATCH BASINS ADJACENT TO THE WORK AREA.

 14. NEW MAINS AND SERVICES SHALL HAVE ALL TESTING PROCEDURES PASSING (FLUSHING, PRESSURE/LEAKAGE, CHLORINATION, BACTERIOLOGICAL TESTING) PRIOR TO EXISTING WATER MAINS BEING DECOMMISSIONED. ALL WORK ON THE WATER DISTRIBUTION SYSTEM SHALL BE IN COMPLIANCE WITH AWWA STANDARDS AND THE VERMONT WATER SUPPLY RULE.



TOWN OF RICHMOND, VERMONT DECEMBER 2022

Sheet List Table		
Sheet	Sheet Title	
G-1.0	TITLE PAGE	
C-1.0	SITE PLAN/PROFILE - TILDEN AVE	
C-1.1	SITE PLAN/PROFILE - TILDEN AVE	
C-2.0	SITE PLAN/PROFILE - S. BRIDGE ST	
C-3.0	SITE PLAN/PROFILE - COCHRAN RD (WEST)	
C-3.1	SITE PLAN/PROFILE - COCHRAN RD (WEST)	
C-3.2	SITE PLAN/PROFILE - COCHRAN RD (EAST)	
C-4.0	DETAILS	
C-4.1	DETAILS	

ABBREVIATIONS:

DUCTILE IRON

POLYVINYL CHLORIDE

VERMONT AGENCY OF TRANSPORTATION MANUAL ON UN. TRAFFIC CONTROL DEVICES

SEWER MANHOLE

TEMPORARY MINIMUM

MAXIMUM

APPROX

TO BE REMOVED TO BE ABANDONED

APPROXIMATE

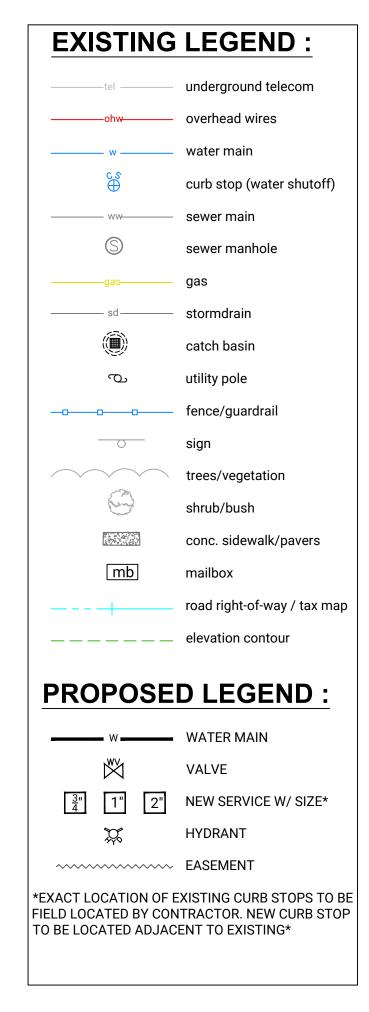
RIGHT-OF-WAY

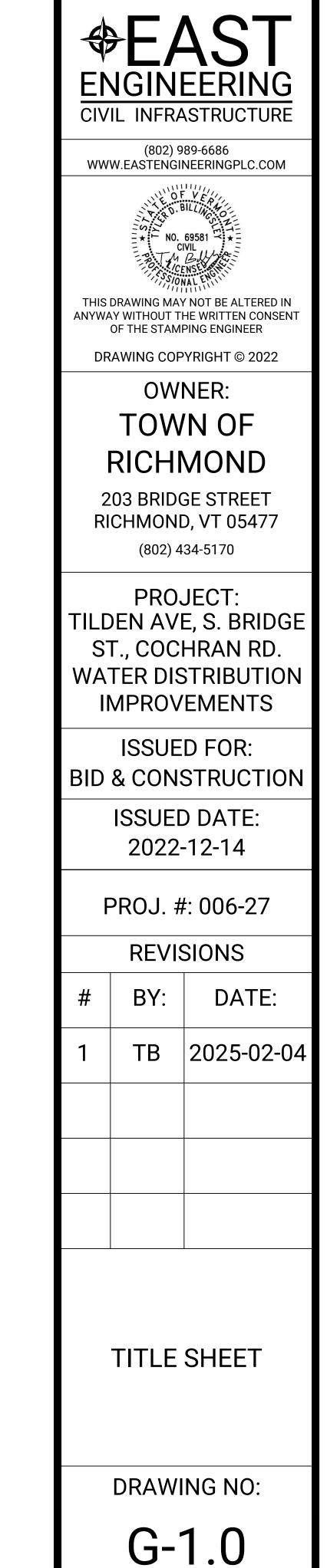
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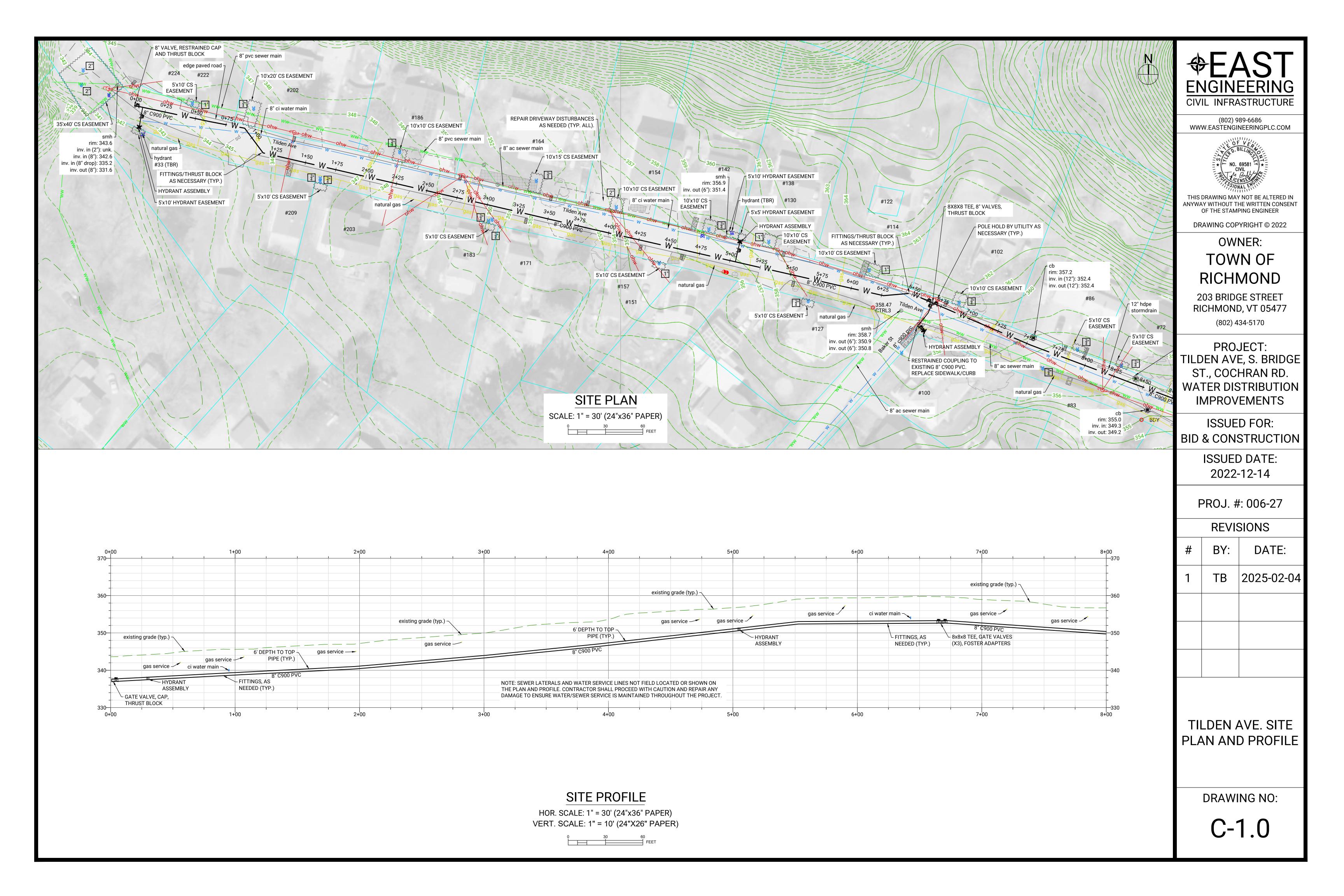
CONTROL POINT

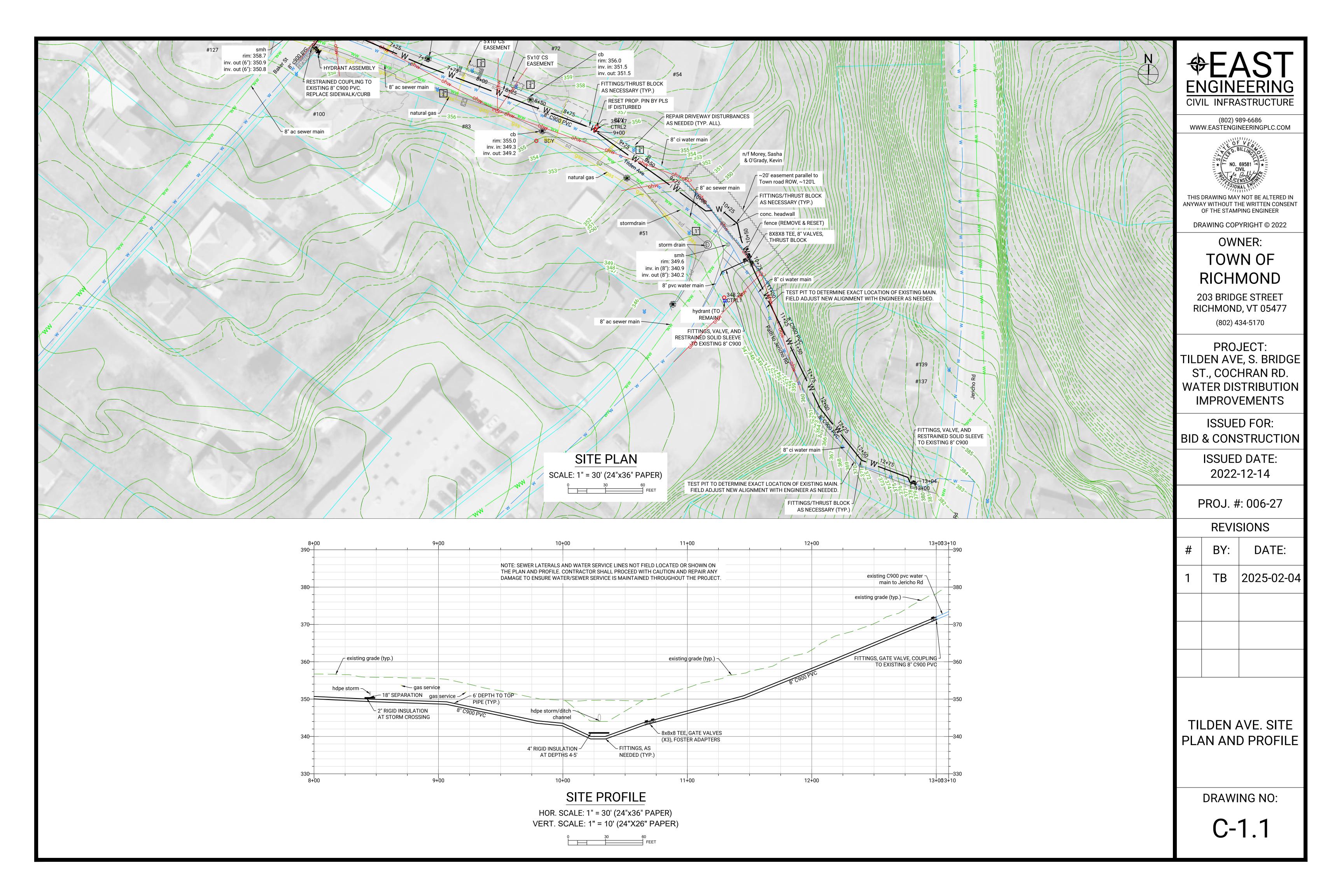
NOW OR FORMERLY

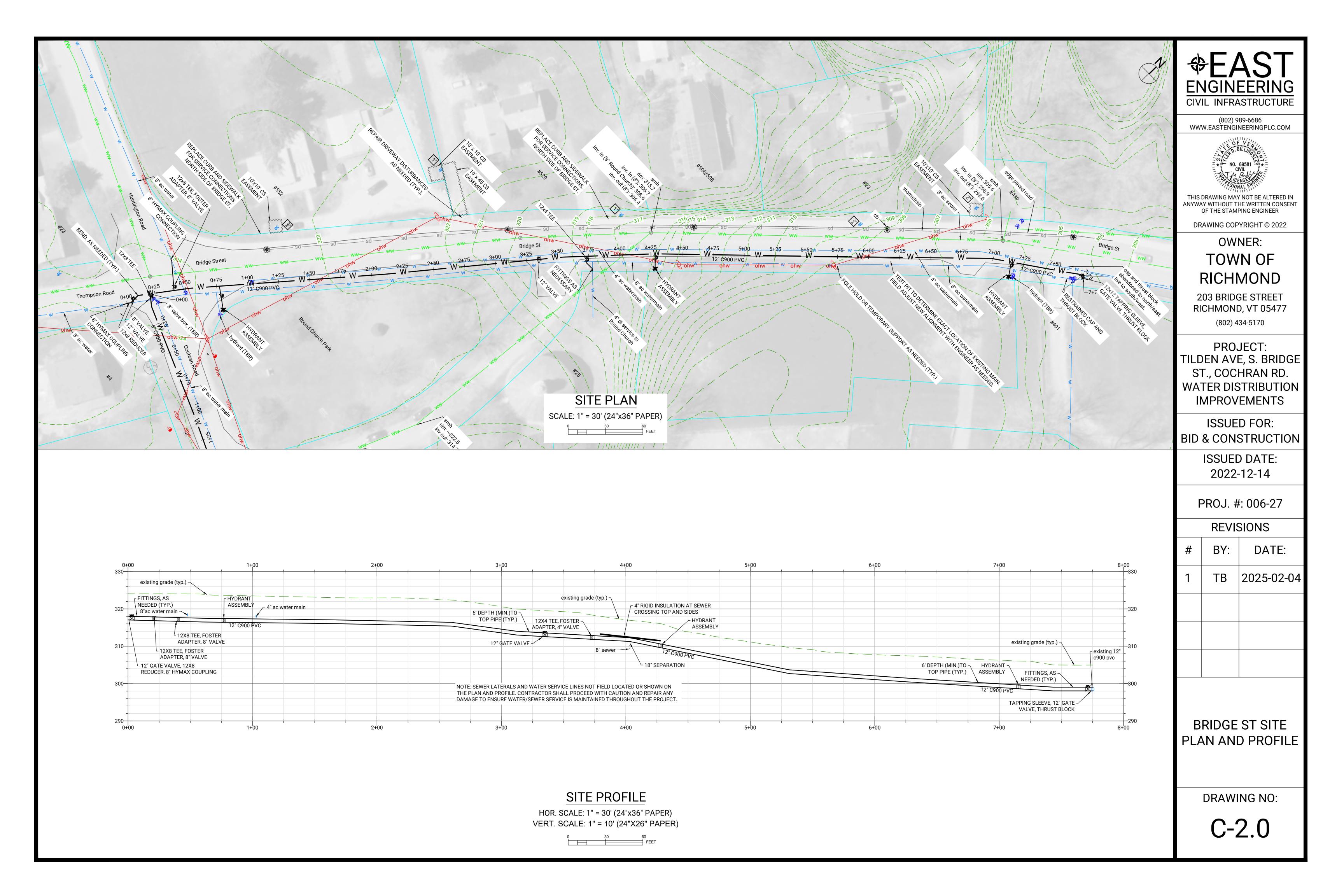
ELEVATION

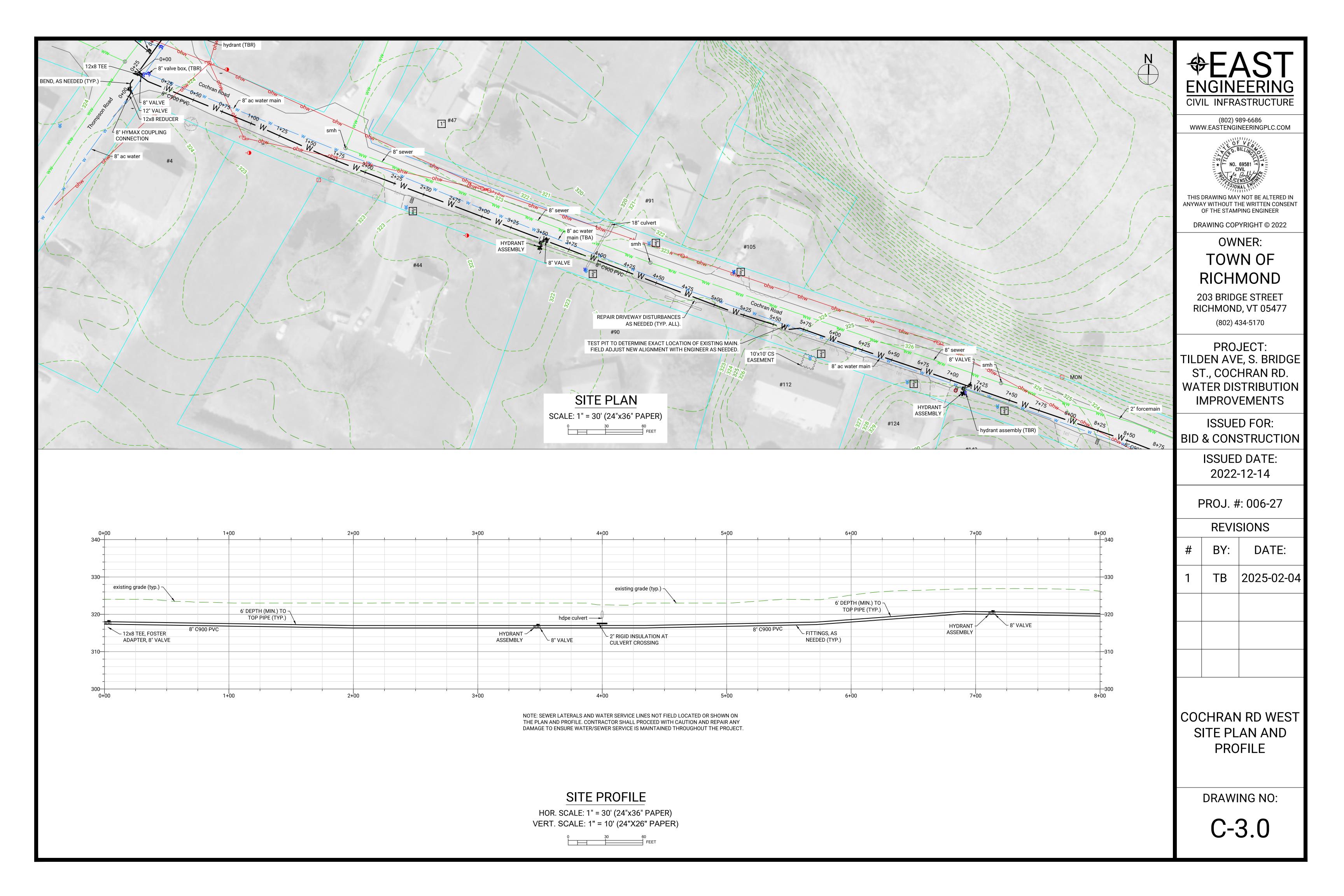


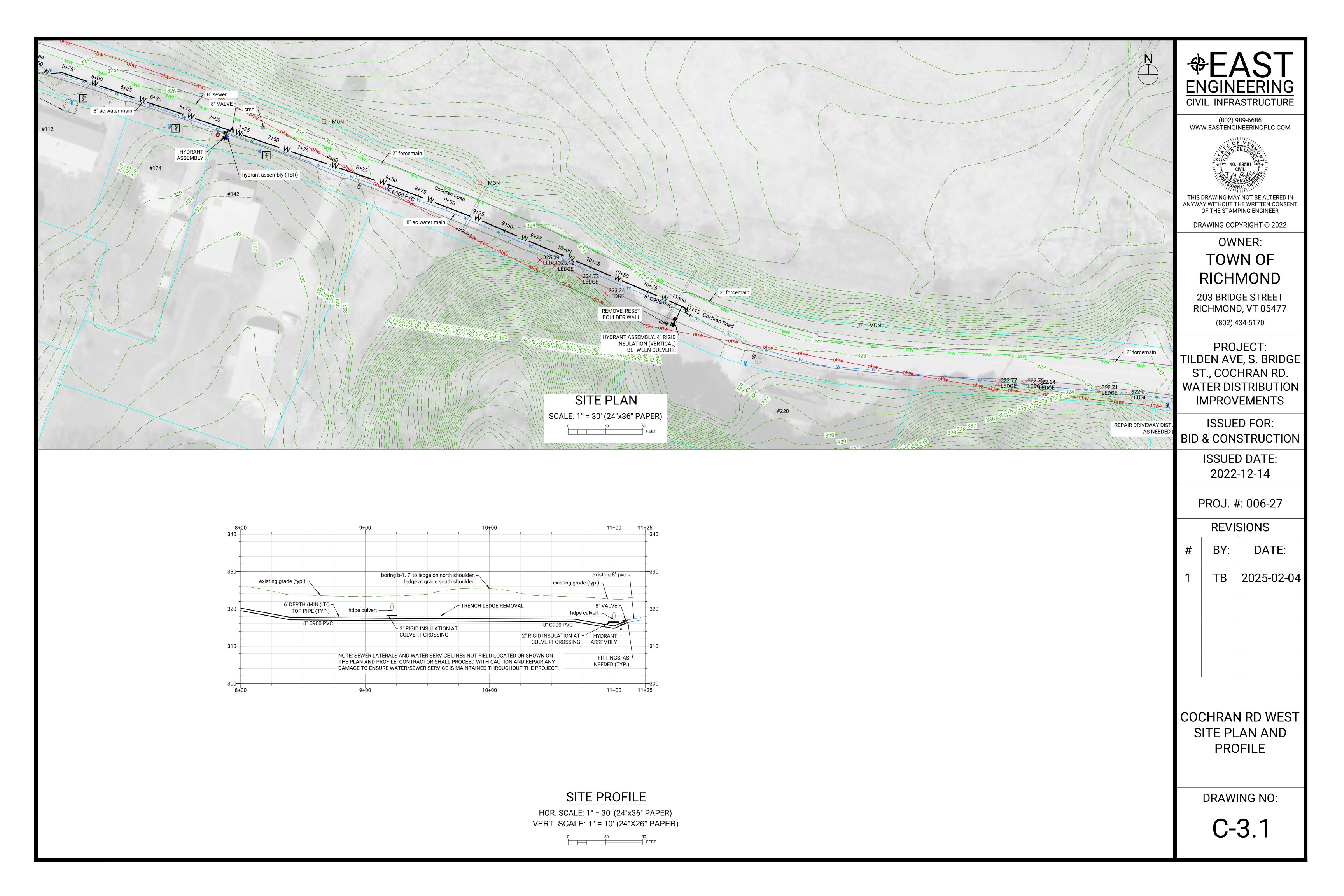


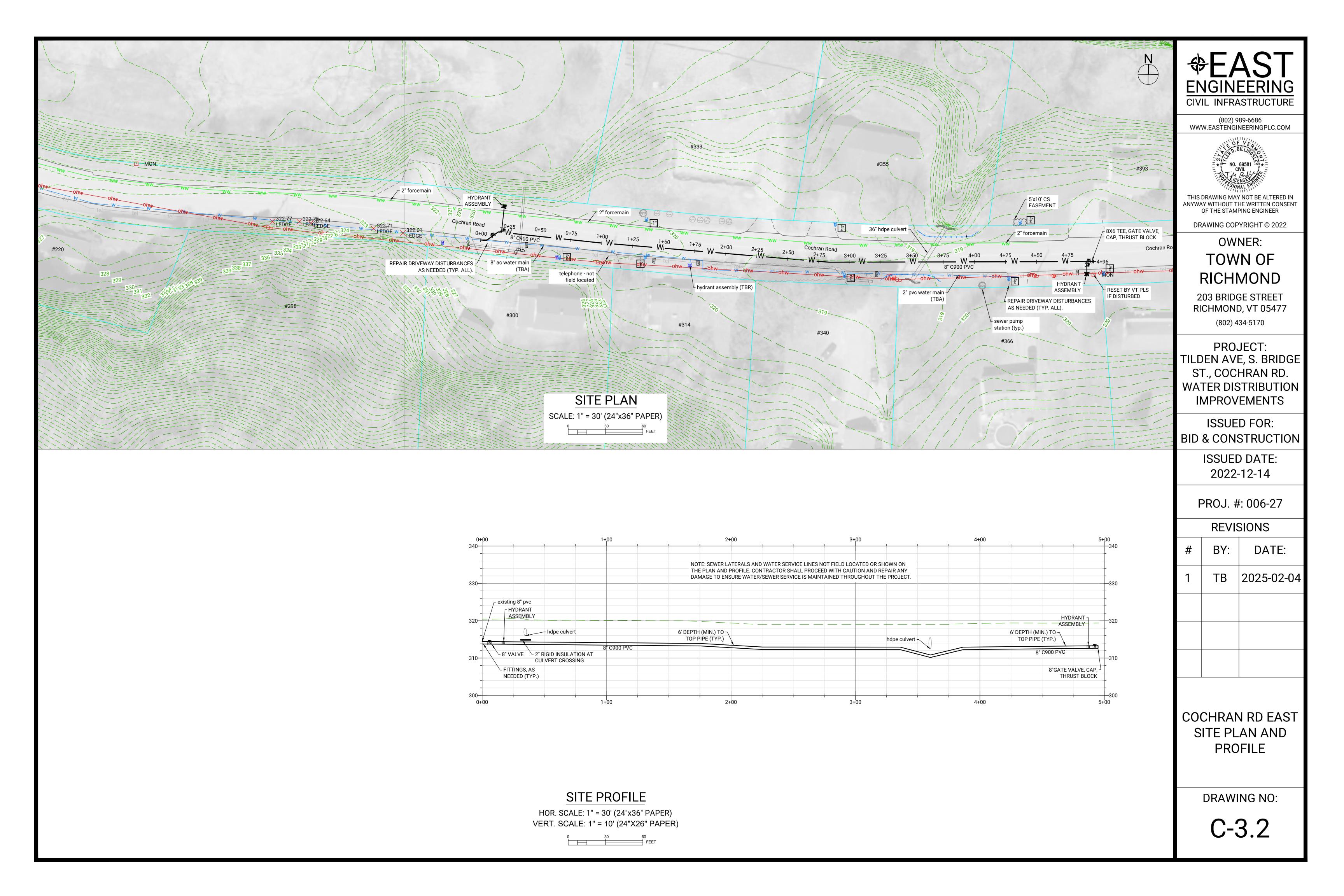


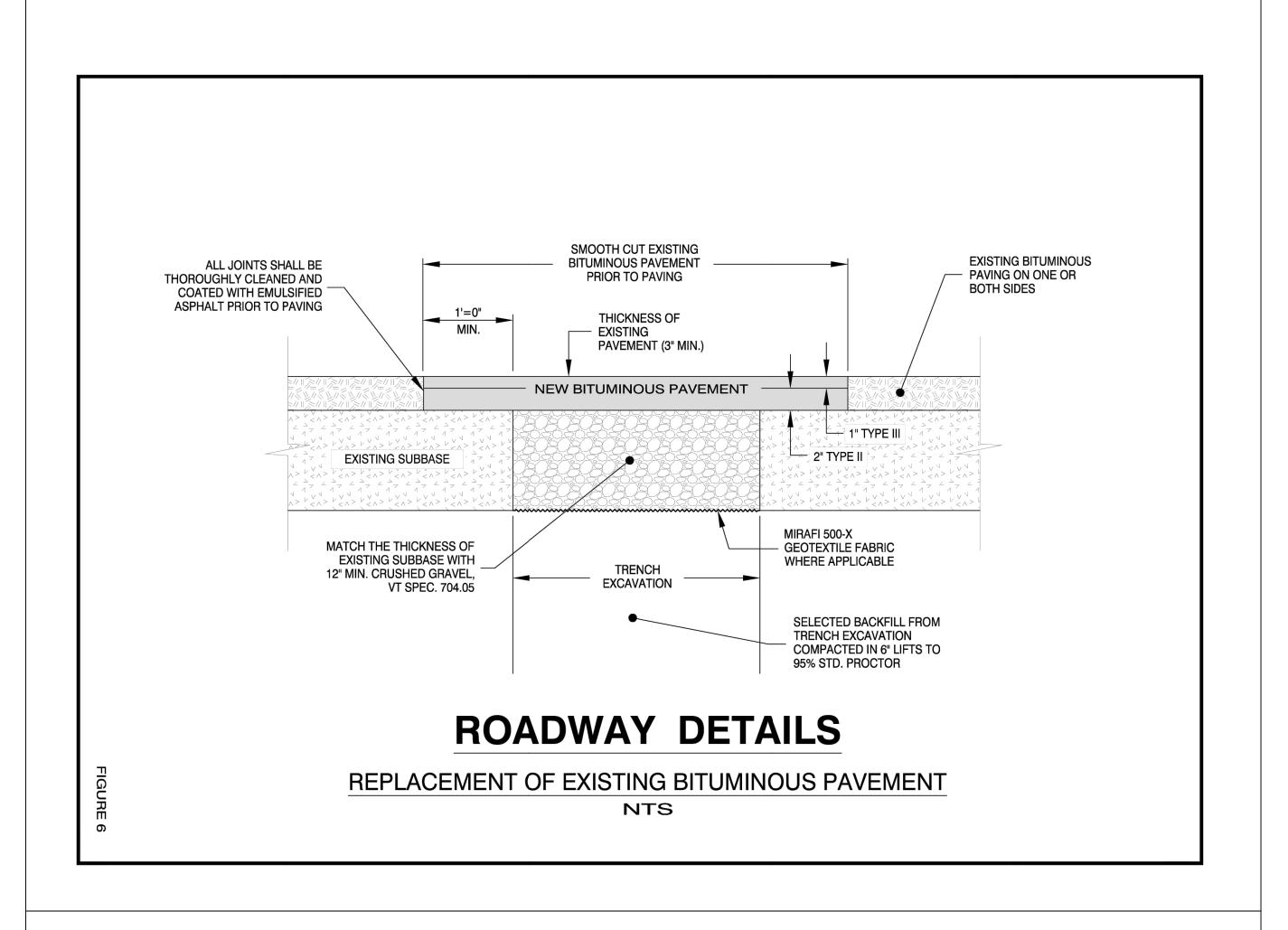


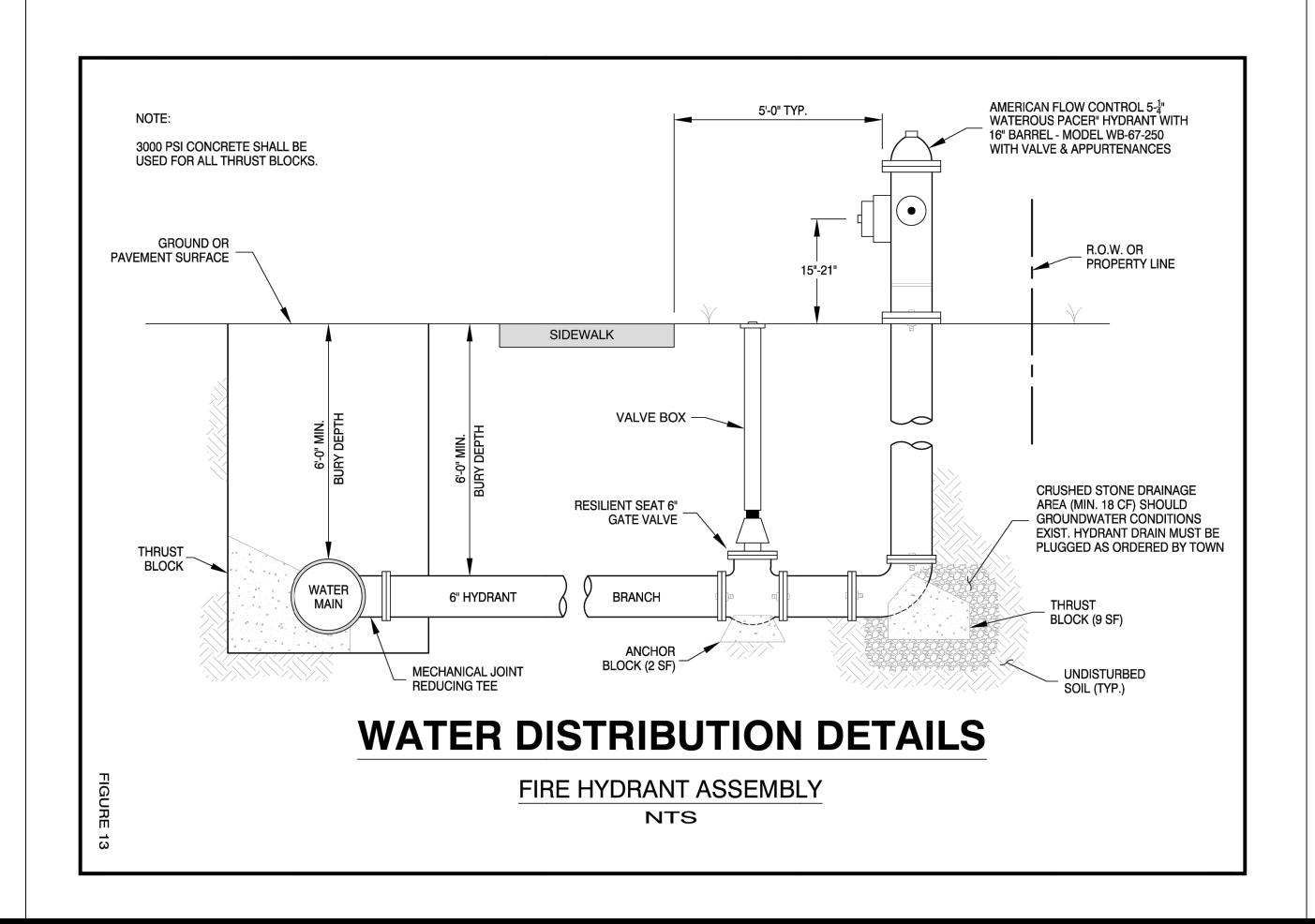


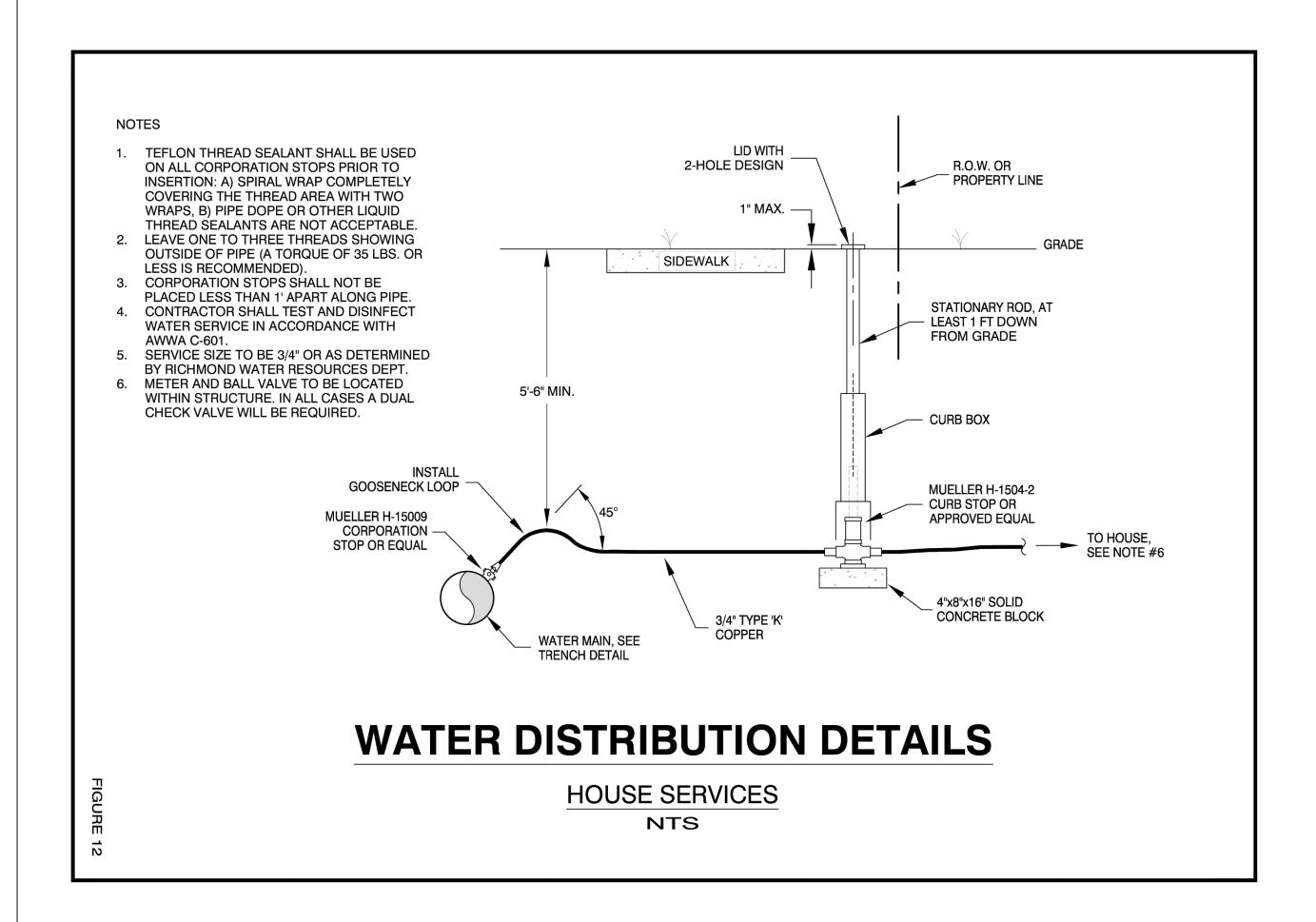


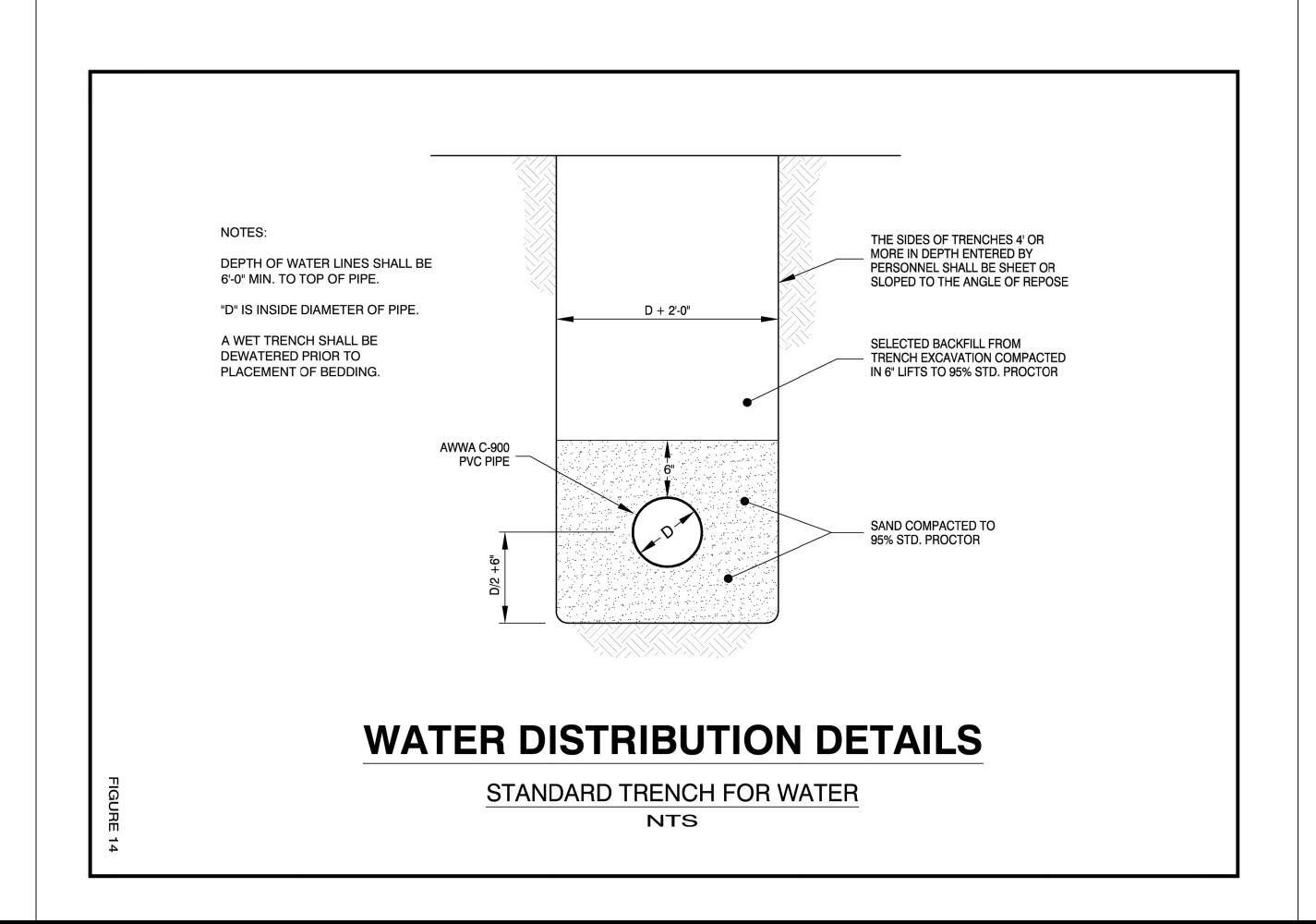


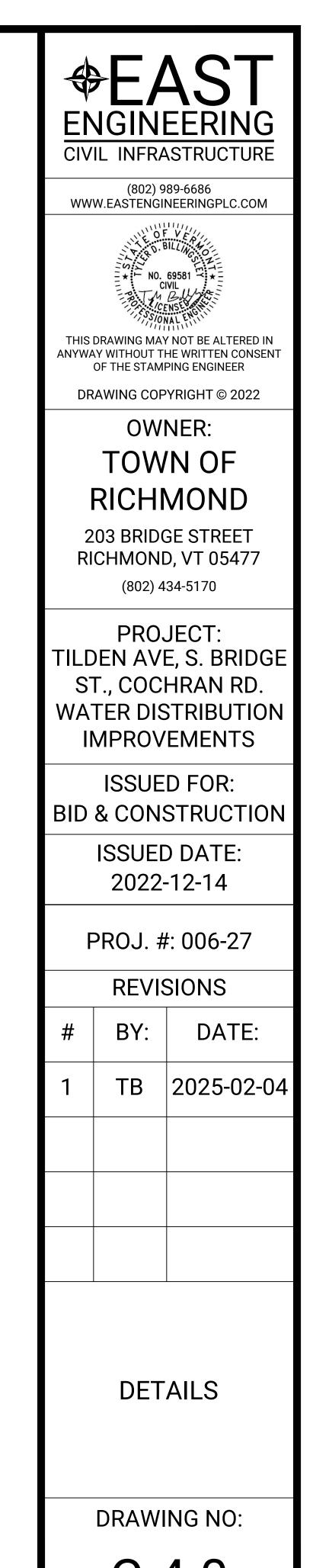


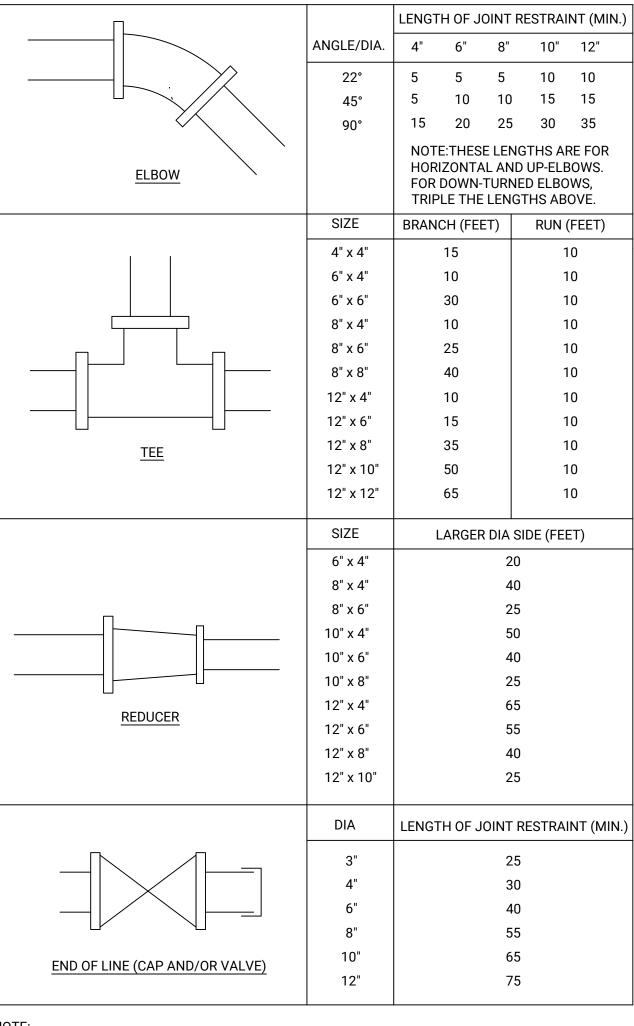












- NOTE:

 1. LENGTHS ABOVE ARE BASED ON DIPRA CALCULATIONS IN GRANULAR SOILS AT 5'+ DEPTH. FOR
- SIZES/TYPES NOT LISTED ABOVE, CONSULT WITH THE ENGINEER. 2. CONTRACTOR SHALL USE JOINT RESTRAINT IN CONJUNCTION WITH CONCRETE THRUST BLOCKS,

UNLESS OTHERWISE APPROVED BY THE ENGINEER.

PIPE JOINT RESTRAINT DETAIL

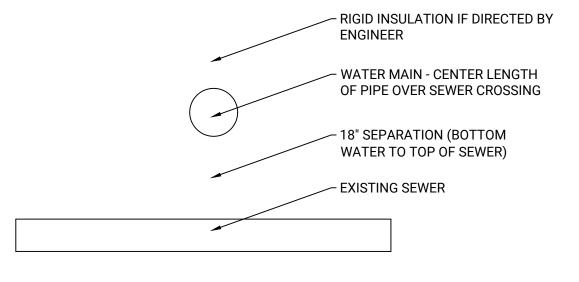
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FITTING DIA.	WELL GRADED GRANULAR MATERIAL - SQUARE FOOTAGE OF BEARING	
22 ELBOW		
4 - 8	4	
10	4	SE
12	6	
45 ELBOW		
4 - 8	4	<u> </u>
10	6	
12	12	J
90 ELBOW		s \
4 - 8	10	
10	15	<u>V</u> .
12	20	
TEE OR CAP		
4 - 8	8	
10	10	
12	15	777777777777777777777777777777777777777
	REDUCER	///////////////////////////////////////
8 X 6	6	SF/
10 X 8	6	
12 X 8	12	SF
12 X 10	15	7/////////////////////////////////////

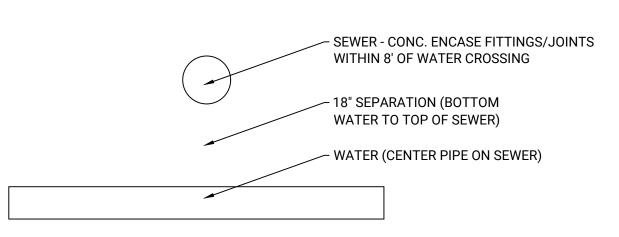
- 1. FITTING SHALL BE WRAPPED IN POLY SHEETING. DO NOT COVER BOLTS WITH
- CONCRETE TO ALLOW FOR FUTURE REMOVAL. 2. FOR TRENCH MATERIALS THAT ARE NOT LISTED IN THIS TABLE, CONSULT WITH
- ENGINEER FOR MIN. BEARING SQUARE FOOTAGE.
- 3. PRECAST CONCRETE THRUST BLOCKS MAY BE UTILIZED, PENDING REVIEW FROM ENGINEER AND OWNER.

THRUST BLOCK DETAIL

NOT TO SCALE



PREFERRED CROSSING - WATER OVER SEWER

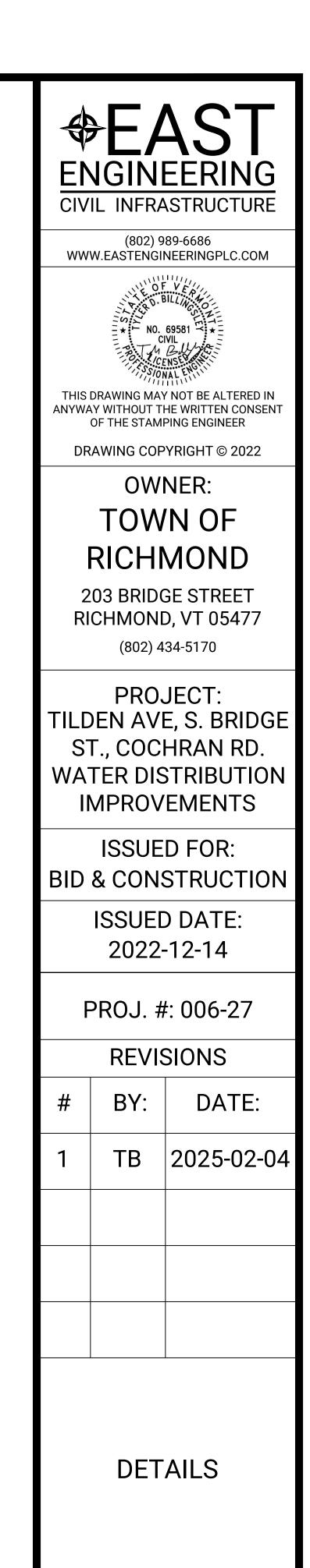


OPTIONAL CROSSING - SEWER OVER WATER

- 1. HORIZONTAL SEPARATION BETWEEN SEWER AND WATER SHALL BE 10' MIN.
- HORIZONTAL SEPARATION BETWEEN STORM AND WATER SHALL BE 5' MIN. 2. CONTRACTOR SHALL REVIEW CROSSINGS WITH ENGINEER PRIOR TO ANY
- DEVIATIONS FROM THIS DETAIL.

WATER/SEWER CROSSING DETAIL

NOT TO SCALE



DRAWING NO: