

HORIZONTAL AND VERTICAL DATUM

HORIZONTAL DATUM: NAD 83/91

VERTICAL DATUM NAVD 88

SOURCE OF DATA WGS SURVEY DATA WAREHOUSE, SURVEY CONTROL POINT STANDARD DATA SHEET POINT DESIGNATION NO. 6333: REBAR WITH 2” ALUMINUM DISK, SET FLUSH WITH GRADE, AT THE BEGINNING OF THE NORTH ENTRANCE TO THE ROCK CREEK ELEMENTARY SCHOOL GROUNDS ON THE PAINTED CENTERLINE.
NORTHING: 138,074.551
EASTING: 1,345,611.811

MIC	MONUMENT IN CASE
MON	SURFACE MONUMENT
△	PK NAIL
RC	REBAR & CAP
□	CATCH BASIN
⊕	DOWNSPOUT
SD	STORM DRAIN CLEAN-OUT
^	CULVERT
⊖	POWER POLE
⊖	POWER POLE W/UNDERGROUND CONNECT
P	POWER VAULT LID
△	POWER TRANSFORMER
⊞	POWER METER
⊕	POWER OUTLET
→	GUY ANCHOR
⊞	JUNCTION BOX
⊞	WATER VALVE
⊞	WATER METER
⊞	FIRE HYDRANT
⊞	HOSE BIB
⊞	IRRIGATION CONTROL VALVE
U	UTILITY VAULT LID (GENERIC/UNKNOWN)
GP	GUARD POST
+	SIGN
⊞	SHRUB
⊞	STUMP, DIAMETER
⊞	DECIDUOUS TREE, DIAMETER (# OF TRUNKS)
⊞	CONIFEROUS TREE, DIAMETER (# OF TRUNKS)

NOTES

- THE PURPOSE OF THIS TOPOGRAPHIC SURVEY IS FOR CIVIL ENGINEERING DESIGN. THIS IS NOT A BOUNDARY SURVEY. SOURCES OF BOUNDARY INFORMATION AS SHOWN INCLUDE FIELD-TIED MONUMENTATION, PLATS, COUNTY RECORDS OF SURVEY, AND AUDITOR INDEXING INFORMATION.
- THE LOCATIONS OF EXISTING UNDERGROUND UTILITY SYSTEMS, AS SHOWN HEREON, ARE TAKEN FROM UTILITY LOCATE PAINT MARKS OR AS-BUILT PLANS AND ARE SHOWN IN AN APPROXIMATE WAY ONLY.
- 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. ALL LOCATOR SERVICES SHOULD BE CONTACTED PRIOR TO ANY CONSTRUCTION OR SUBSURFACE EXPLORATION. CALL 1-800-424-5555.
- FIELD SURVEY: KPG, OCTOBER, 2024. LICENSEE MICHAEL R. BOWEN, P.L.S. NO. 29294/RONALD D. REICHEL, P.L.S. NO. 38015.
- CONTOUR INTERVAL = 1 FOOT, ±0.5 FOOT PER NATIONAL MAPPING STANDARDS. CONTOURS DERIVED FROM DIRECT FIELD OBSERVATIONS.
- STORM AND SEWER CONNECTIONS HAVE BEEN DRAWN FROM CENTER OF LID TO CENTER OF LID.
- THE LOCATIONS AND DIMENSIONS OF UNDERGROUND VAULTS HAVE NOT BEEN VERIFIED AND ARE APPROXIMATE.
- DUCTS ARE NOTED AS INDICATED IN THE FIELD BY UTILITY LOCATORS. MULTIPLE LINES AND/OR UTILITIES MAY SHARE DUCT RUNS; THIS MAY NOT BE SHOWN IN THE DRAWING.

WATER LEGEND:

⌋	⌋	CAP/PLUG	⌋	⌋	ADAPTER, FLxM.J.
⌋	⌋	COUPLING (CPL)	⌋	⌋	BENDS:
⌋	⌋	REDUCER (RED)	⌋	⌋	90 DEGREE BEND, FL.
⌋	⌋	THRUST BLOCK (TB)	⌋	⌋	45 DEGREE BEND, FL.
⌋	⌋	WATER METER (WM)	⌋	⌋	22.5 DEGREE BEND, FL.
			⌋	⌋	11.25 DEGREE BEND, FL.
			⌋	⌋	90 DEGREE BEND, M.J.
			⌋	⌋	45 DEGREE BEND, M.J.
			⌋	⌋	22.5 DEGREE BEND, M.J.
			⌋	⌋	11.25 DEGREE BEND, M.J.
			⌋	⌋	VERTICAL BEND, FL.
			⌋	⌋	VERTICAL BEND, M.J.
			⌋	⌋	REDUCERS:
			⌋	⌋	REDUCER, FL.
			⌋	⌋	REDUCER, M.J.
			⌋	⌋	REDUCER, M.J.xFL.
			⌋	⌋	REDUCER, M.J.xP.E.
			⌋	⌋	REDUCER, P.E.xM.J./FL.xM.J.
			⌋	⌋	TEES:
			⌋	⌋	TAPPING TEE & VALVE, FLxM.J.
			⌋	⌋	TEE, FL.
			⌋	⌋	TEE, M.J.
			⌋	⌋	TEE, M.J.xFL.
			⌋	⌋	VALVES:
			⌋	⌋	BUTTERFLY VALVE, FLxM.J.
			⌋	⌋	BUTTERFLY VALVE, M.J.
			⌋	⌋	GATE VALVE, FLxM.J.
			⌋	⌋	GATE VALVE, M.J.

50 LF 8" D.I.	WATER MAIN
	WATER SERVICE
W	EX WATER MAIN
---	EX WATER SERVICE
---	EASEMENT

COVINGTON WATER DISTRICT GENERAL NOTES

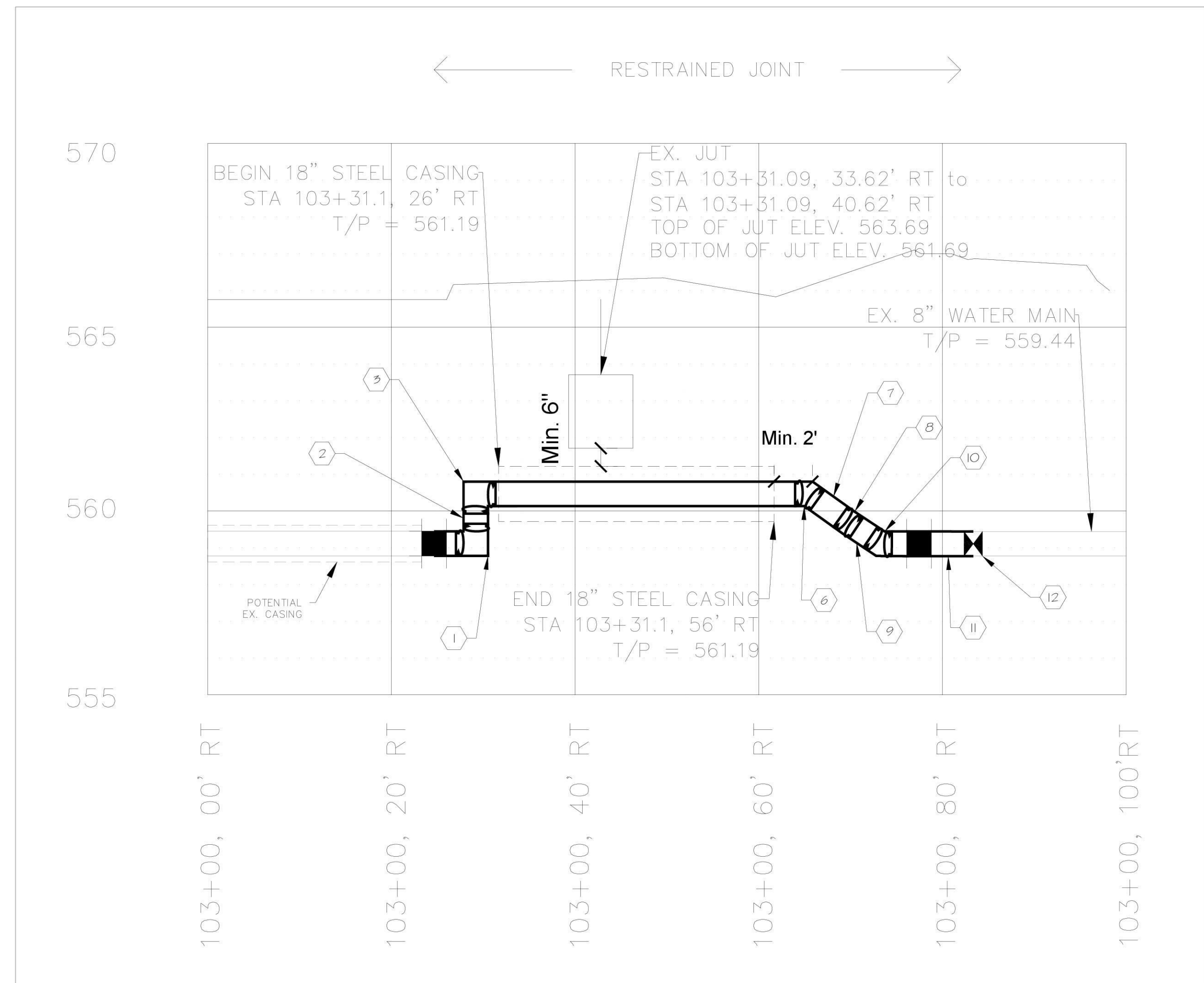
- ALL WORK SHALL BE IN ACCORDANCE WITH APPROVED PLANS AND DISTRICT STANDARDS AND SPECIFICATIONS. ANY CHANGES TO THE DESIGN WITHOUT DISTRICT APPROVAL MAY JEOPARDIZE THE ACCEPTANCE OF THE PROJECT BY THE DISTRICT.
- THE DEVELOPER/CONTRACTOR SHALL SCHEDULE A PRE-CONSTRUCTION CONFERENCE WITH COVINGTON WATER DISTRICT AT LEAST TWO WEEKS IN ADVANCE OF DELIVERY OF MATERIALS ON-SITE OR START OF ANY WORK.
- THE CONTRACTOR SHALL KEEP A COPY OF THE APPROVED PLANS, STANDARDS AND SPECIFICATIONS ON THE JOBSITE AT ALL TIMES DURING CONSTRUCTION.
- ALL MATERIALS SHALL CONFORM TO THE DISTRICT STANDARDS AND SPECIFICATIONS AND SHALL BE APPROVED BY THE DISTRICT PRIOR TO DELIVERY TO THE JOB SITE.
- THE DISTRICT SHALL HAVE FIRST RIGHT OF REFUSAL FOR SALVAGE OF ANY WATER SYSTEM FEATURES. SPECIFIC ITEMS OF SALVAGE MAY BE CALLED OUT ON THE PLANS OR WITHIN CONTRACT DOCUMENTS.
- ALL SERVICE LOCATIONS SHALL BE FIELD APPROVED BY THE DISTRICT PRIOR TO INSTALLATION.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO LOCATE UNDERGROUND UTILITIES BY CALLING ONE-CALL UNDERGROUND UTILITY LOCATOR (1-800-424-5555 OR 811) 48 HOURS PRIOR TO CONSTRUCTION.
- THE DISTRICT SHALL BE NOTIFIED AT LEAST 48 HOURS PRIOR TO COMMENCING WORK ON THE WATER SYSTEM AND CONFIRM CONTACT WITH THE DISTRICT'S CONSTRUCTION INSPECTOR. FAILURE TO PROVIDE ADEQUATE NOTICE WILL RESULT IN DELAY OF WORK ON THE SYSTEM.
- ADEQUATE TRENCH SHEETING AND/OR SHORING SHALL BE PROVIDED BY THE CONTRACTOR AS REQUIRED BY OSHA AND WSHA.
- THE PIPE SHALL BE INSTALLED BY FOLLOWING THE FINISHED GRADE PROFILE WHEREVER POSSIBLE. THE COVER DEPTHS SHALL BE TYPICALLY 42 INCHES (3.5 FEET) TYPICAL, 36 INCHES (3 FEET) MINIMUM, AND 60 INCHES (5 FEET) MAXIMUM WHEN APPROVED BY THE DISTRICT ENGINEER. WATER MAINS UNDER STATE HIGHWAYS TRAVEL LANES SHALL BE 60 INCHES (5 FEET) MINIMUM COVER DEPTHS WHEN REQUIRED BY THE JURISDICTIONAL PERMIT; OR AS OTHERWISE REQUIRED BY WSDOT. COVER DEPTH IS MEASURED FROM FINISHED GRADE TO THE TOP OF PIPE.
- PIPE JOINT DEFLECTIONS SHALL NOT EXCEED 3-DEGREES OF DEFLECTION FOR UNRESTRAINED PIPE AND 1- 1/2 DEGREES FOR RESTRAINED PIPE AND NO MORE THAN 11-INCHES DEFLECTION PER 18- FEET OF HORIZONTAL PIPE. BENDS MAY BE REQUIRED TO MAINTAIN PROPER WATER MAIN ALIGNMENT WITHIN EASEMENTS OR PUBLIC RIGHT-OF-WAY.
- WATER MAIN SHALL NOT BE PLACED UNDER SIDEWALK, CURBS, GUTTERS, OR ANY PERMANENT STRUCTURES WITHOUT THE PRIOR APPROVAL OF THE DISTRICT ENGINEER.
- NO CONNECTIONS TO THE DISTRICT'S SYSTEM ARE ALLOWED UNTIL THE NEW CONSTRUCTION PASSES PRESSURE AND PURITY TESTS. NO MORE THAN 5 WORKING DAYS SHALL PASS BETWEEN TESTING OF EXTENSIONS AND CONNECTION TO THE SYSTEM. ALL PIPE DISINFECTION AND VERIFICATION SHALL CONFORM TO AWWA 651. VERIFICATION SHALL BE REPEATED IF MORE THAN 5 DAYS PASS BETWEEN TESTING AND CONNECTION TO THE SYSTEM.
- PRIOR TO MAKING CONNECTIONS TO THE EXISTING SYSTEM, CONTRACTOR SHALL FIELD VERIFY THE LOCATION, DEPTH AND MATERIAL OF EXISTING WATER MAINS AT THE POINT OF CONNECTION. ALL MAIN LINE VALVES SHALL BE MAINTAINED SO AS TO BE ACCESSIBLE DURING PROJECT CONSTRUCTION AND ALL VALVE STEM TOPS HAVING OVER 48 INCHES OF COVER REQUIRE AN EXTENSION IN ACCORDANCE WITH CWD STANDARDS.
- ALL WATER LINES SHALL BE A MINIMUM OF 10 FEET HORIZONTAL CLEARANCE FROM SANITARY SEWERS. WHEN WATER LINES CROSS SEWER LINES, THE MINIMUM VERTICAL CLEARANCE SHALL BE 1.5 FEET (WALL TO WALL).
- CONTRACTOR SHALL CONTACT THE DISTRICT FOR INSPECTION OF FLUSHING, PRESSURE TEST AND PURITY TESTING PROCESS. TO FILL THE MAIN FOR FLUSHING, PRESSURE AND PURITY TESTS, THE CONTRACTOR IS REQUIRED TO RENT A HYDRANT CART FROM THE DISTRICT. THE HYDRANT SHALL REMAIN IN THE FULL OPEN POSITION DURING USE TO PREVENT BACK-SIPHON THROUGH THE DRAIN HOLE. AFTER SUCCESSFUL TESTING, AS DETERMINED BY THE DISTRICT INSPECTOR, THE CONTRACTOR WILL TIE INTO THE EXISTING SYSTEM, USING DISINFECTED SLEEVES AND SPOOL PIECES. CONNECTION TO THE DISTRICT WATER SYSTEM SHALL BE IN ACCORDANCE WITH AWWA 651.
- THE CONTRACTOR SHALL CONTACT THE DISTRICT FOR VALVE OPERATION. ONLY AUTHORIZED REPRESENTATIVES OF THE DISTRICT CAN OPERATE VALVES IN THE DISTRICT WATER SYSTEM.
- TAPPING - TAPPING SLEEVES SHALL BE PRESSURE TESTED IN AN APPROVED MANNER IN THE FIELD IN THE PRESENCE OF THE DISTRICT CONSTRUCTION INSPECTOR, PRIOR TO TAPPING THE MAIN LINE. TAPPING OF THE MAIN LINE SHALL NOT PROCEED UNLESS A DISTRICT INSPECTOR IS PRESENT. EXISTING MAIN EXTERIOR MUST BE THOROUGHLY CLEANED AND DISINFECTED BEFORE INSTALLING TAPPING SLEEVE. NO SIZE-ON-SIZE TAPPING IS ALLOWED.
- SHUT DOWN OR TAPPING OF EXISTING WATER LINES TO FACILITATE CONNECTION TO THE EXISTING FACILITIES SHALL BE COORDINATED WITH THE DISTRICT INSPECTOR AT LEAST 72 HOURS IN ADVANCE TO ALLOW FOR CUSTOMER NOTICE OF SERVICE INTERRUPTION. ANY RELOCATION OF EXISTING FACILITIES IS SUBJECT TO APPROVAL OF THE DISTRICT ENGINEER.
- WATER WILL BE SUPPLIED ONLY THROUGH A HYDRANT WITH PROPER BACKFLOW PREVENTION AND METER. CONTRACTOR SHALL OBTAIN THE HYDRANT CART APPARATUS AT DISTRICT HEADQUARTERS UPON PAYMENT OF A DEPOSIT. WATER USAGE AND DAILY FEE FOR USE WILL BE BILLED IN ACCORDANCE WITH CURRENT RATE STRUCTURE.
- THE CONTRACTOR IS HEREBY NOTIFIED THAT, SINCE FILLING AND FLUSHING WILL BE DONE THROUGH A CROSS-CONNECTION CONTROL DEVICE, LOW VELOCITY FLOWS MAY BE ENCOUNTERED. THEREFORE, EVERY ATTEMPT SHALL BE MADE TO KEEP THE PIPE CLEAN DURING INSTALLATION. THIS MAY INCLUDE SWABBING THE PIPE WITH CHLORINATED WATER.
- THE CONTRACTOR SHALL PERFORM TEMPORARY SOIL EROSION AND SEDIMENTATION CONTROL, DUST CONTROL, NOISE CONTROL, AND TRAFFIC CONTROL AS REQUIRED BY THE DISTRICT AND APPLICABLE JURISDICTIONAL PERMITS.
- CUTTING AND PATCHING OF PUBLIC ROAD RIGHTS-OF-WAY SHALL CONFORM TO THE REQUIREMENTS OF THE PERMIT AGENCY.
- WATER SERVICE SHALL BE MAINTAINED FOR COMMERCIAL SERVICES DURING THEIR NORMAL BUSINESS HOURS. THE CONTRACTOR SHALL COORDINATE SERVICE INTERRUPTION IMPACTING COMMERCIAL CUSTOMERS TO OCCUR DURING NON-OPERATING BUSINESS HOURS.
- DISINFECTION OF NEWLY CONSTRUCTED MAIN SHALL BE PERFORMED THROUGH A CHLORINE INJECTION APPARATUS WHICH ACCURATELY DOSES CHLORINE INTO THE MAIN. THIS APPARATUS SHALL BE RENTED FROM THE DISTRICT AND OBTAINED AT DISTRICT HEADQUARTERS BY CONTACTING CUSTOMER SERVICE AND PAYING DEPOSITS FOR DAMAGE AND A DAILY USE FEE.
- THE PROJECT SHALL FOLLOW THE DISTRICT'S LATEST VERSION OF PREMISE ISOLATION PROGRAM REQUIREMENTS. THE MANUAL IS AVAILABLE VIA THE DISTRICT'S WEBSITE.
- CONNECTIONS TO EXISTING WATER MAINS SHALL BE VIA A CUT-IN TEE. ALL JOINTS MUST BE RESTRAINED UNLESS OTHERWISE APPROVED BY THE DISTRICT ENGINEER.
- THE DEVELOPER/CONTRACTOR SHALL ARRANGE FOR COMPACTION TESTING TO BE PERFORMED BY A CERTIFIED TECHNICIAN. THE DEVELOPER/CONTRACTOR SHALL PROVIDE THE ENGINEER AND THE DISTRICT WITH ONE COPY OF THE COMPACTION TEST REPORT WITHIN 24 HOURS OF TEST COMPLETION.
- THE DEVELOPER/CONTRACTOR SHALL MAINTAIN CONSTRUCTION REDLINE PLANS WITH ACTUAL FIELD MEASUREMENTS, FIELD CHANGES, AND TOP OF PIPE ELEVATION EVERY 50 LINEAR FEET AND AT EVERY FITTING INSTALLED. CONSTRUCTION REDLINES SHALL BE SENT TO THE DISTRICT. INCOMPLETE, INACCURATE, ILLEGIBLE OR POOR-QUALITY DRAWINGS WILL BE REJECTED.

UTILITY CONFLICT NOTE:
CAUTION:

THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION, DIMENSION, AND DEPTH OF ALL EXISTING UTILITIES WHETHER SHOWN ON THESE PLANS OR NOT BY POTHOLING THE UTILITIES AND SURVEYING THE HORIZONTAL AND VERTICAL LOCATION PRIOR TO CONSTRUCTION. THIS SHALL INCLUDE CALLING UTILITY LOCATE @ 1-800-424-5555 AND THEN POTHOLES ALL OF THE EXISTING UTILITIES AT LOCATIONS OF NEW UTILITY CROSSINGS TO PHYSICALLY VERIFY WHETHER OR NOT CONFLICTS EXIST. LOCATIONS OF SAID UTILITIES AS SHOWN ON THESE PLANS ARE BASED UPON THE UNVERIFIED PUBLIC INFORMATION AND ARE SUBJECT TO VARIATION. IF CONFLICTS SHOULD OCCUR, THE CONTRACTOR SHALL CONSULT CWD ENGINEER DEPT. TO RESOLVE ALL PROBLEMS PRIOR TO PROCEEDING WITH CONSTRUCTION.

COVINGTON WATER DISTRICT AS-BUILT RECORD/RECORD INFORMATION SHOWN ON THESE DOCUMENTS PROVIDED BY CONTRACTOR WATER DISTRICT. WATER ELEMENTS SHOWN ON THESE DOCUMENTS ARE OWNED BY COVINGTON WATER DISTRICT.		Auditor's Recording Number A		Recording Date	
COVINGTON WATER DISTRICT THESE DOCUMENTS HAVE BEEN REVIEWED FOR CONFORMANCE TO DISTRICT DESIGN AND CONSTRUCTION STANDARDS AND ARE HEREBY APPROVED FOR CONSTRUCTION		District Engineer		Date	
STATE OF WASHINGTON JULY 1906 PROFESSIONAL ENGINEER					
DATE: 11/22/2025					
REVISIONS: PRELIMINARY DESIGN					
ISSUED FOR BID					
PROJECT NO.: CIP 2026-06		DESIGNED BY: J.J.XI		DRAWN BY: J.N.SERL	
CITY OF MAPLE VALLEY T57 SR 169 PEDESTRIAN OVERPASS		APPROVED BY: S.LEE			
LEGEND AND NOTES					
SHEET W2 W5					
CWD PROJECT NO.: CIP 2026-06					





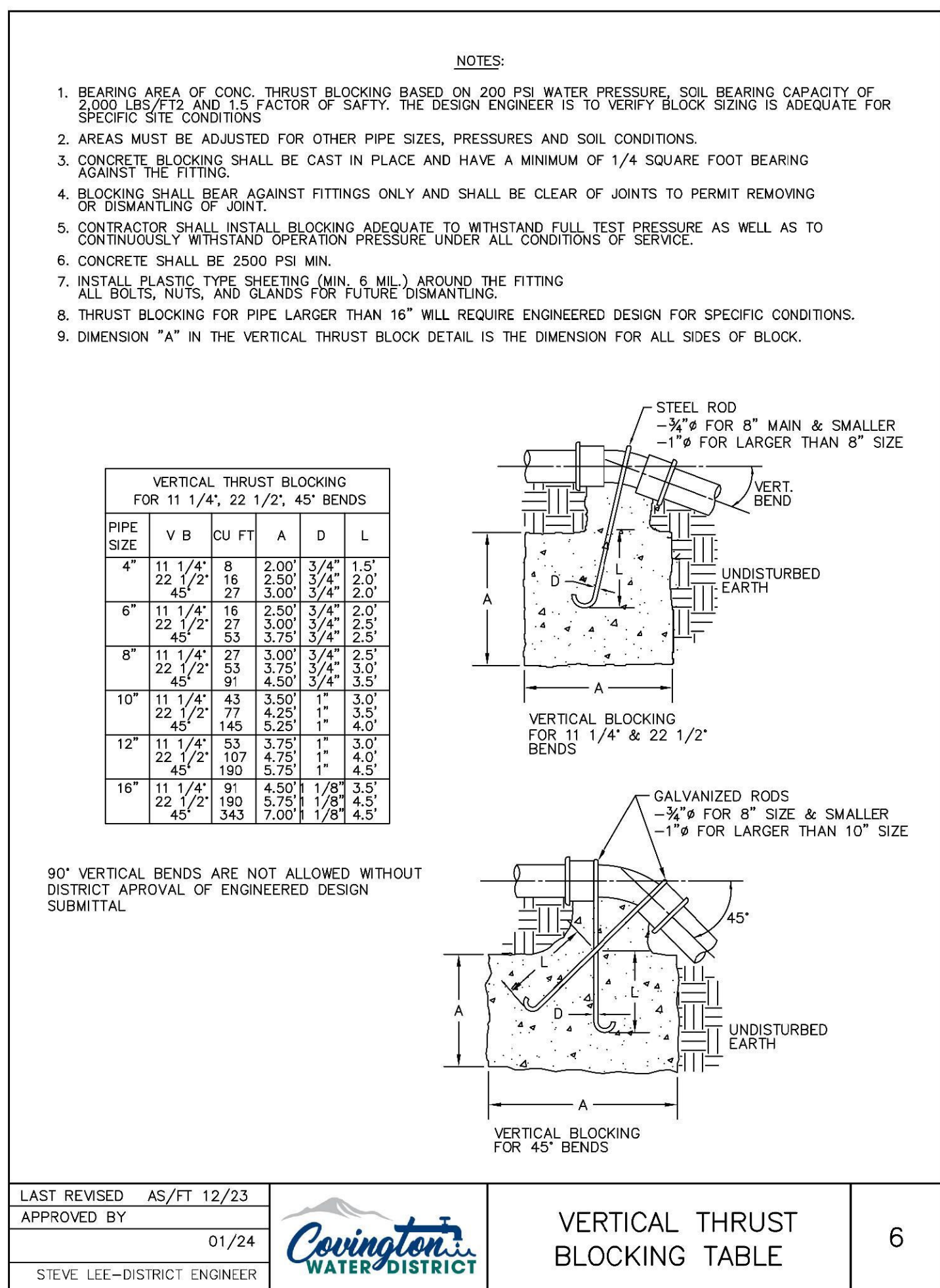
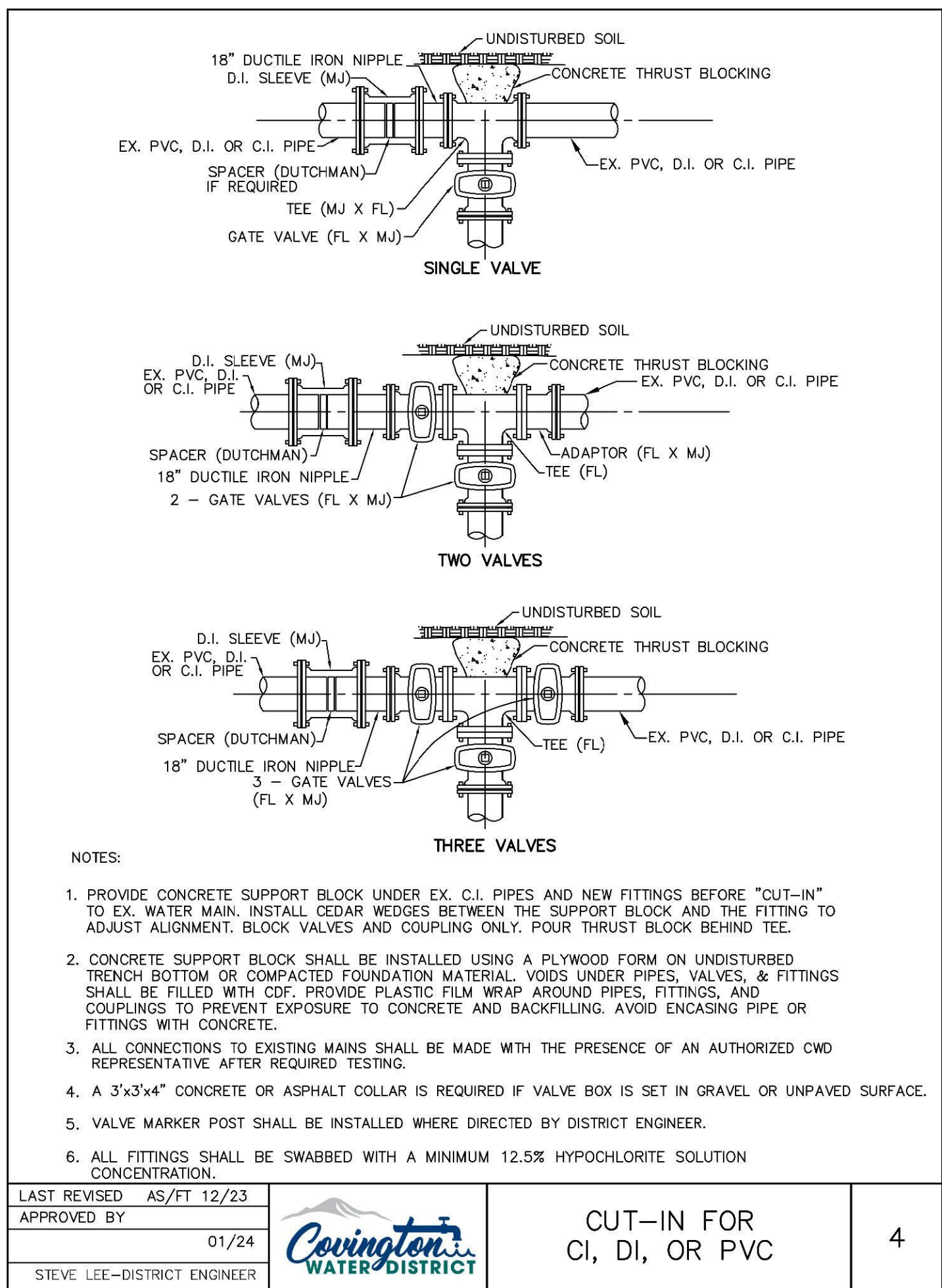
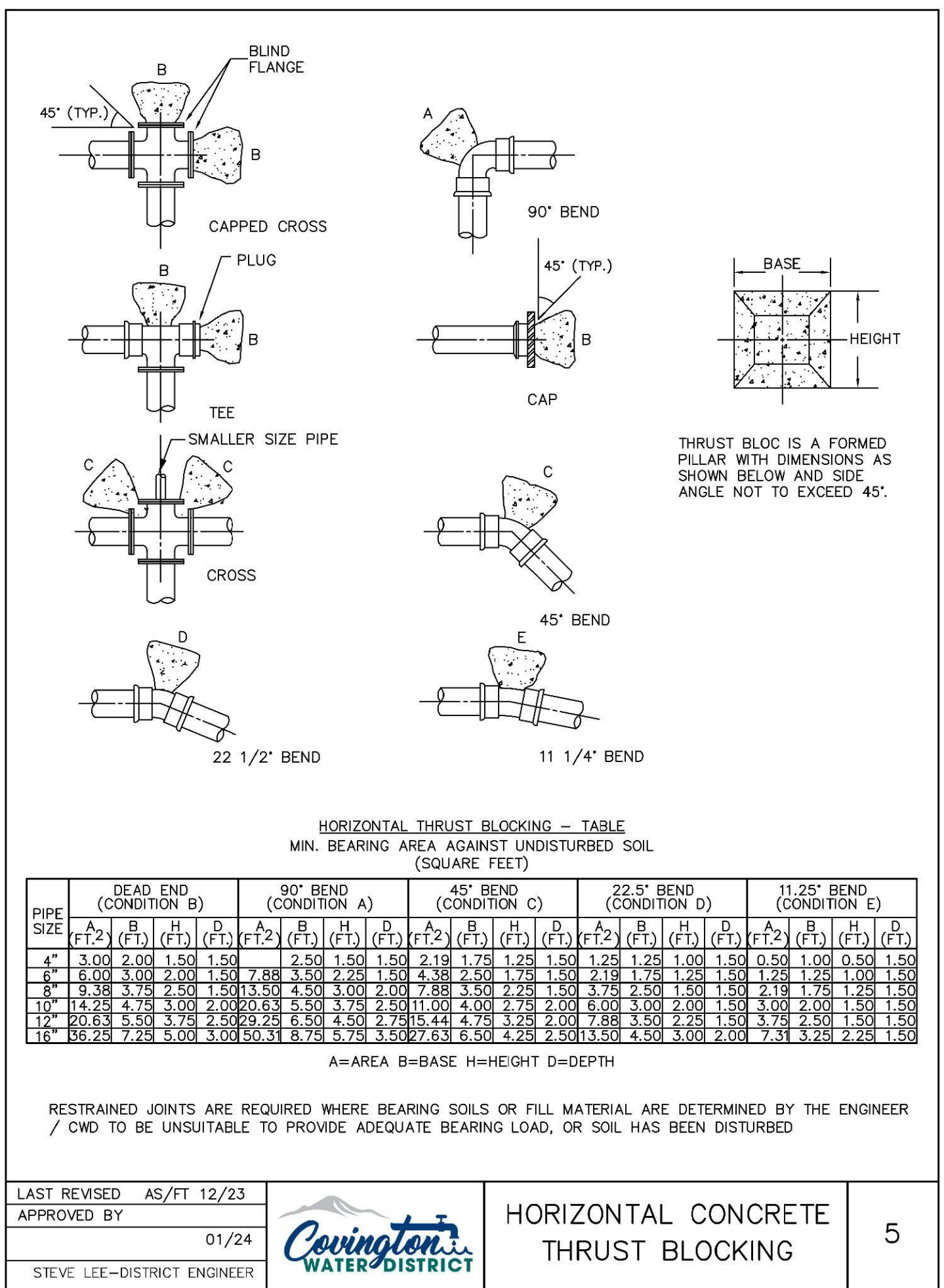
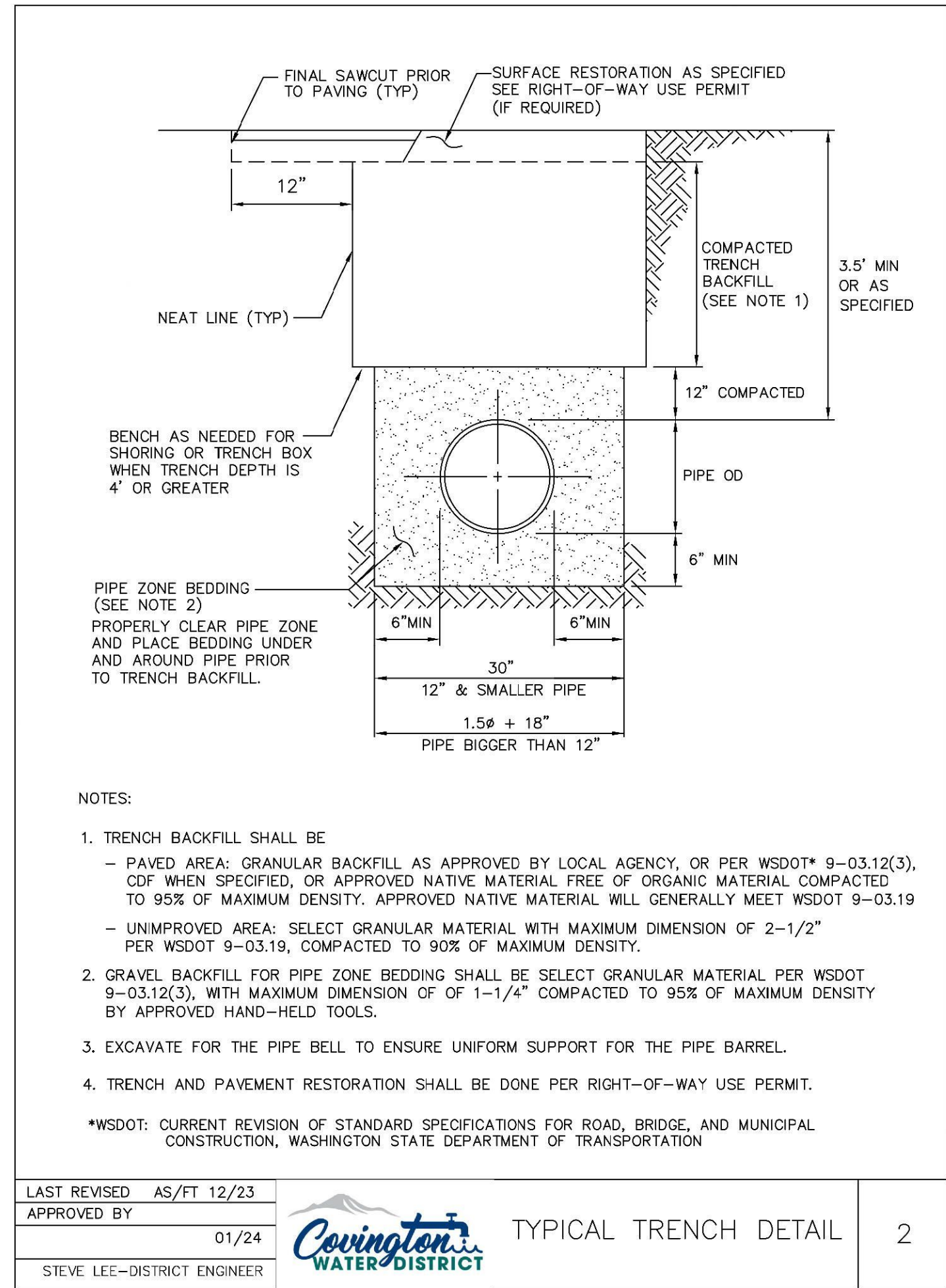
1. LOCATIONS AND DEPTHS OF UTILITIES ARE APPROXIMATE. CONTRACTOR TO POTHOLE FOR EXISTING UTILITIES AS NEEDED.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION, DIMENSION, AND DEPTH OF ALL EXISTING UTILITIES WHETHER SHOWN ON THESE PLANS OR NOT BY POTHOLES THE UTILITIES AND SURVEYING THE HORIZONTAL AND VERTICAL LOCATION PRIOR TO CONSTRUCTION. THIS SHALL INCLUDE CALLING THE UTILITY LOCATOR (800) 485-8084 PRIOR TO EXCAVATING ANY EXISTING UTILITY AT LOCATIONS WHERE NEW UTILITY CROSSINGS TO PHYSICALLY VERIFY WHETHER OR NOT CONFLICTS EXIST. LOCATIONS OF SAID UTILITIES AS SHOWN ON THESE PLANS ARE BASED UPON THE UNVERIFIED PUBLIC INFORMATION AND ARE SUBJECT TO VERIFICATION. IF A UTILITY CONFLICT OCCURS, THE CONTRACTOR SHALL CONSULT A QUALIFIED ENGINEER TO RESOLVE ALL PROBLEMS PRIOR TO PROCEEDING WITH CONSTRUCTION.

CWD PROJECT NO. 015-0000-00

COVINGTON WATER DISTRICT





COVINGTON WATER DISTRICT GENERAL NOTES

1. ALL WORK SHALL BE IN ACCORDANCE WITH APPROVED PLANS AND DISTRICT STANDARDS AND SPECIFICATIONS. ANY CHANGES TO THE DESIGN WITHOUT DISTRICT APPROVAL MAY JEOPARDIZE THE ACCEPTANCE OF THE PROJECT BY THE DISTRICT

