

GREATER WENATCHEE IRRIGATION DISTRICT STANDARD DETAILS			
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CONTACT INFORMATION		CALL 48 HOURS BEFORE YOU DIG ONE CALL 1-800-424-5555
BUSINESS OFFICE GREATER WENATCHEE IRRIGATION 3300 8TH ST SE EAST WENATCHEE, WA 98802 PHONE: (509) 884-4042 FAX: (509) 884-8763	REPORT ALL SPILLS DEPT. OF ECOLOGY 1-800-258-5990	

ABBREVIATIONS			
CB	CATCH BASIN	FG	FINISHED GRADE
CONC	CONCRETE	PW	FUSION WELD
CL	CONSTRUCTION CENTERLINE	GALV	GALVANIZED
CSBC	CRUSHED SURFACING BASE COURSE	HDPE	HIGH-DENSITY POLYETHYLENE
CSTC	CRUSHED SURFACING TOP COURSE	HMA	HOT MIXED ASPHALT
CTS	COPPER TUBE SIZE	ID	INSIDE DIAMETER
DI	DUCTILE IRON	IE	INVERT ELEVATION
DIAM	DIAMETER	LF	LINEAR FEET
DWG	DRAWING	MH	MANHOLE
EEG	EXISTING GROUND	MI	MALE IRON PIPE
ELEV	ELEVATION	MJ	MECHANICAL JOINT FITTING
EX	EXISTING	NUM	NUMBER
EW	EVEN WIDTH	OC	ON CENTER
FL	FLAGGED	OD	OUTSIDE DIAMETER
		PE	PROP
		PL	PLAIN END
		PSI	POUNDS PER SQUARE INCH
		PVC	POLYVINYL CHLORIDE
		RS	RESILIENT SEAT
		SPEC	SPECIFICATIONS
		SST	STAINLESS STEEL
		STD	STANDARD
		STL	STEEL
		SW	SOLVENT WELD
		TEMP	TEMPORARY
		TYP	TYPICAL
		WSDOT SS	WASHINGTON STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS

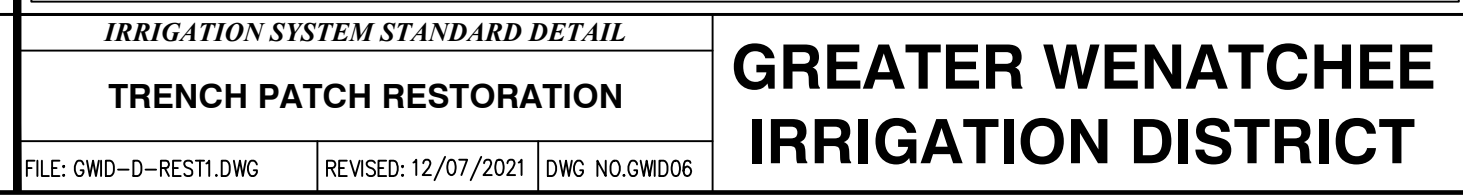
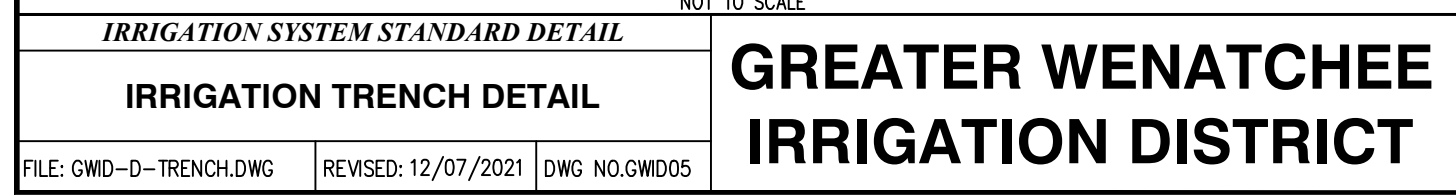
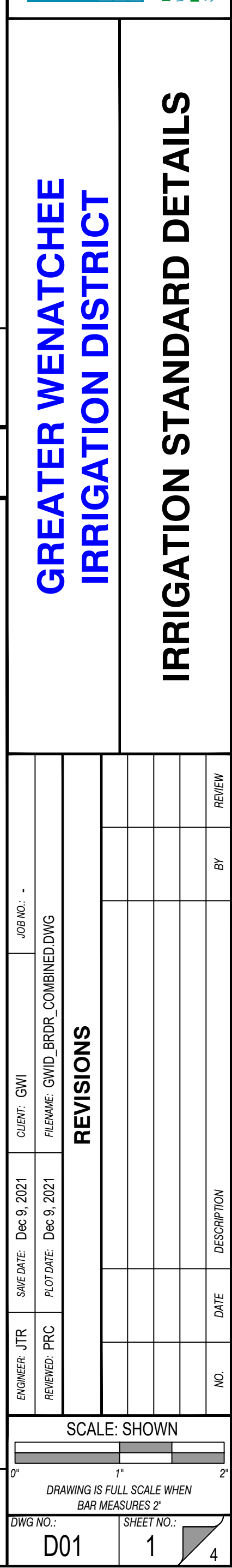
IRRIGATION SYSTEM STANDARD DETAIL	
COVER	GREATER WENATCHEE IRRIGATION DISTRICT

FILE: GWD - 0 - COV.DWG
REVISED: 12/07/2021
DWG NO. GWD01

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|-----------------------------------|---------------------|----------------|--|
| IRRIGATION SYSTEM STANDARD DETAIL | | | GREATER WENATCHEE
IRRIGATION DISTRICT |
| CONSTRUCTION NOTES | | | |
| PAGE 1 OF 3 | | | |
| FILE: GWD-D-CNOTE1.DWG | REVISED: 12/07/2021 | DWG NO. GWD002 | |

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|-----------------------------------|---------------------|----------------|--|
| IRRIGATION SYSTEM STANDARD DETAIL | | | GREATER WENATCHEE
IRRIGATION DISTRICT |
| CONSTRUCTION NOTES | | | |
| PAGE 2 OF 3 | | | |
| FILE: GWD-D-CNOT2.DWG | REVISED: 12/07/2021 | DWG NO. GWD003 | |

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|--|---------------------|---------------|--|
| IRRIGATION SYSTEM STANDARD DETAIL
CONSTRUCTION NOTES
PAGE 3 OF 3 | | | GREATER WENATCHEE
IRRIGATION DISTRICT |
| FILE: GWD-D-CNOTES.DWG | REVISED: 12/07/2021 | DWG NO. GWD04 | |



NOTE: CONTRACTOR TO RESTRAIN PIPES AS NECESSARY TO RESIST PULL OUT FORCE.

5' 0" MIN.
10' 0" MAX.

HDPE PIPE SIZE PER PLAN

HDPE WALL RING

BLOCK SHALL BE SIZED AND INSTALLED IN ACCORDANCE WITH STANDARD DETAIL GWID17, KEY IN TO UNDISTURBED NATIVE SOIL.

COVER AS SPECIFIED OR REQUIRED

COMPACT UNDISTURBED NATIVE SOIL

DETAIL 1 - HDPE TO PVC

WEDGE ADAPTER (FW x FL) WITH EPOXY COATED STEEL BACKUP RING AND FULL FACED GASKET

PVC FLANGE ADAPTER

PROVIDE PVC JOINT RESTRAINT ROMAC 800 OR EQUAL, WHERE SPECIFIED ON PLANS. PVC PIPE SIZE PER PLAN.

PIPE BEDDING PER TRENCH DETAIL

PVC SPOOL (PEXPE)

ROMAC 501 LONG PATTERN SLEEVE

ASBESTOS CONCRETE (AC) PIPE SIZE PER PLAN

PVC FLANGE ADAPTER

DETAIL 2 - AC TO HDPE

ROMAC 501 LONG PATTERN SLEEVE

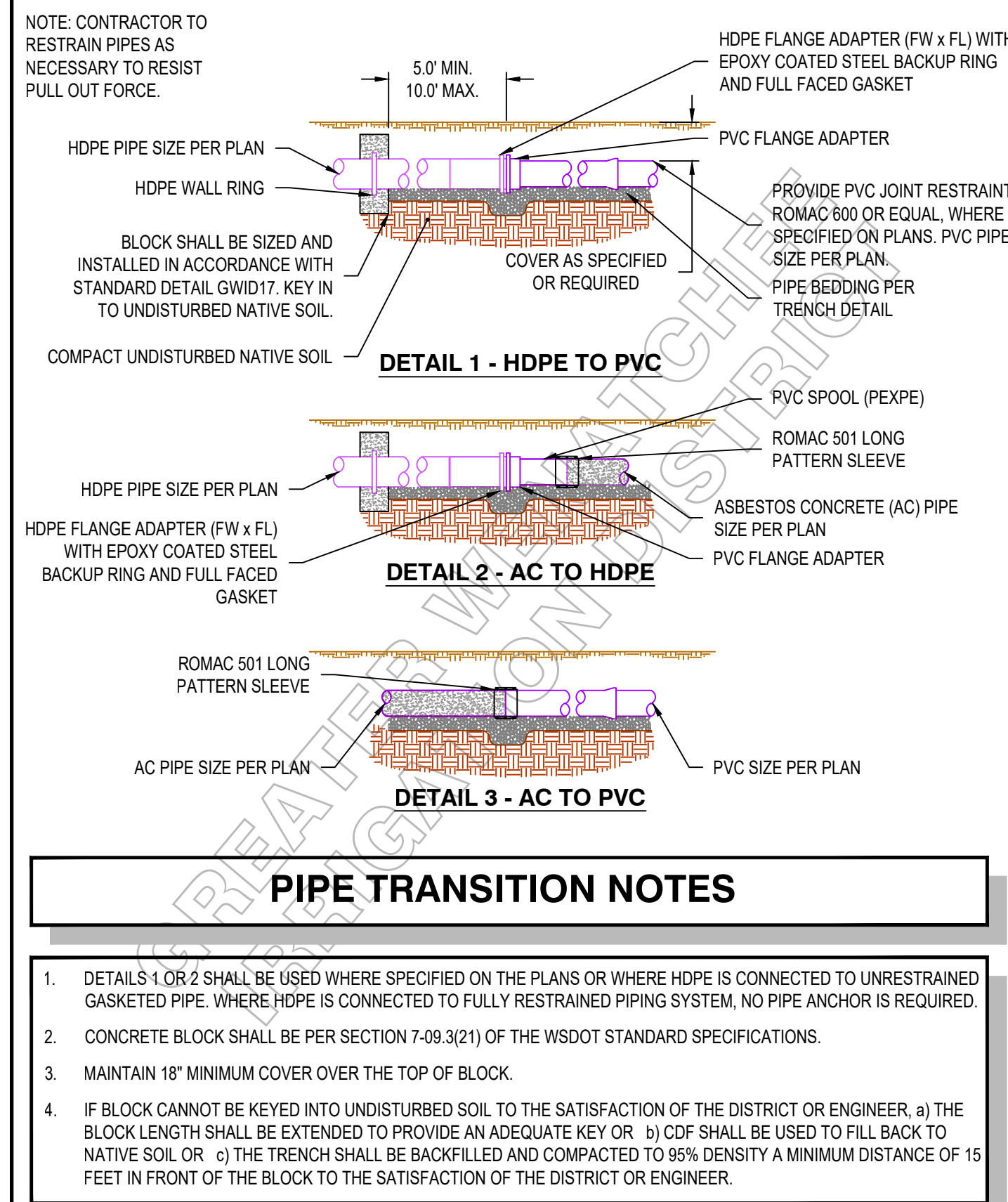
AC PIPE SIZE PER PLAN

PVC SIZE PER PLAN

DETAIL 3 - AC TO PVC

PIPE TRANSITION NOTES

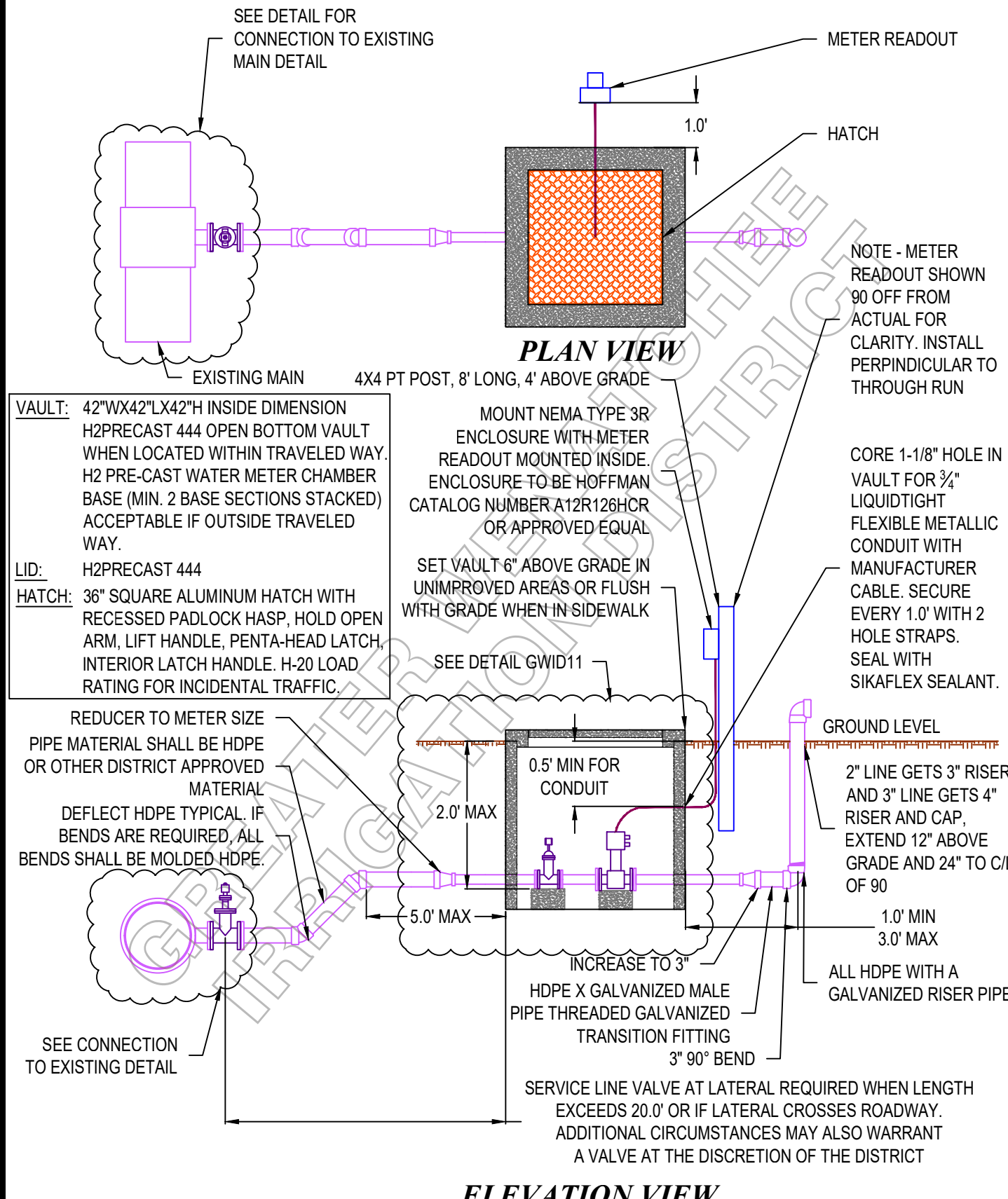
1. DETAILS 1 OR 2 SHALL BE USED WHERE SPECIFIED ON THE PLANS OR WHERE HDPE IS CONNECTED TO UNRESTRAINED GASKETED PIPE, WHERE HDPE IS CONNECTED TO FULLY RESTRAINED PIPING SYSTEM, NO PIPE ANCHOR IS REQUIRED.
2. CONCRETE BLOCK SHALL BE PER SECTION 7-09.3(21) OF THE WSDOT STANDARD SPECIFICATIONS.
3. MAINTAIN 18" MINIMUM COVER OVER THE TOP OF BLOCK.
4. IF BLOCK CANNOT BE KEYED INTO UNDISTURBED SOIL TO THE SATISFACTION OF THE DISTRICT OR ENGINEER, a) THE BLOCK LENGTH SHALL BE EXTENDED TO PROVIDE AN ADEQUATE KEY OR b) CDF SHALL BE USED TO FILL BACK TO NATIVE SOIL OR c) THE TRENCH SHALL BE BACKFILLED AND COMPACTED TO 95% DENSITY A MINIMUM DISTANCE OF 15 FEET IN FRONT OF THE BLOCK TO THE SATISFACTION OF THE DISTRICT OR ENGINEER.



PIPE TRANSITION NOTES

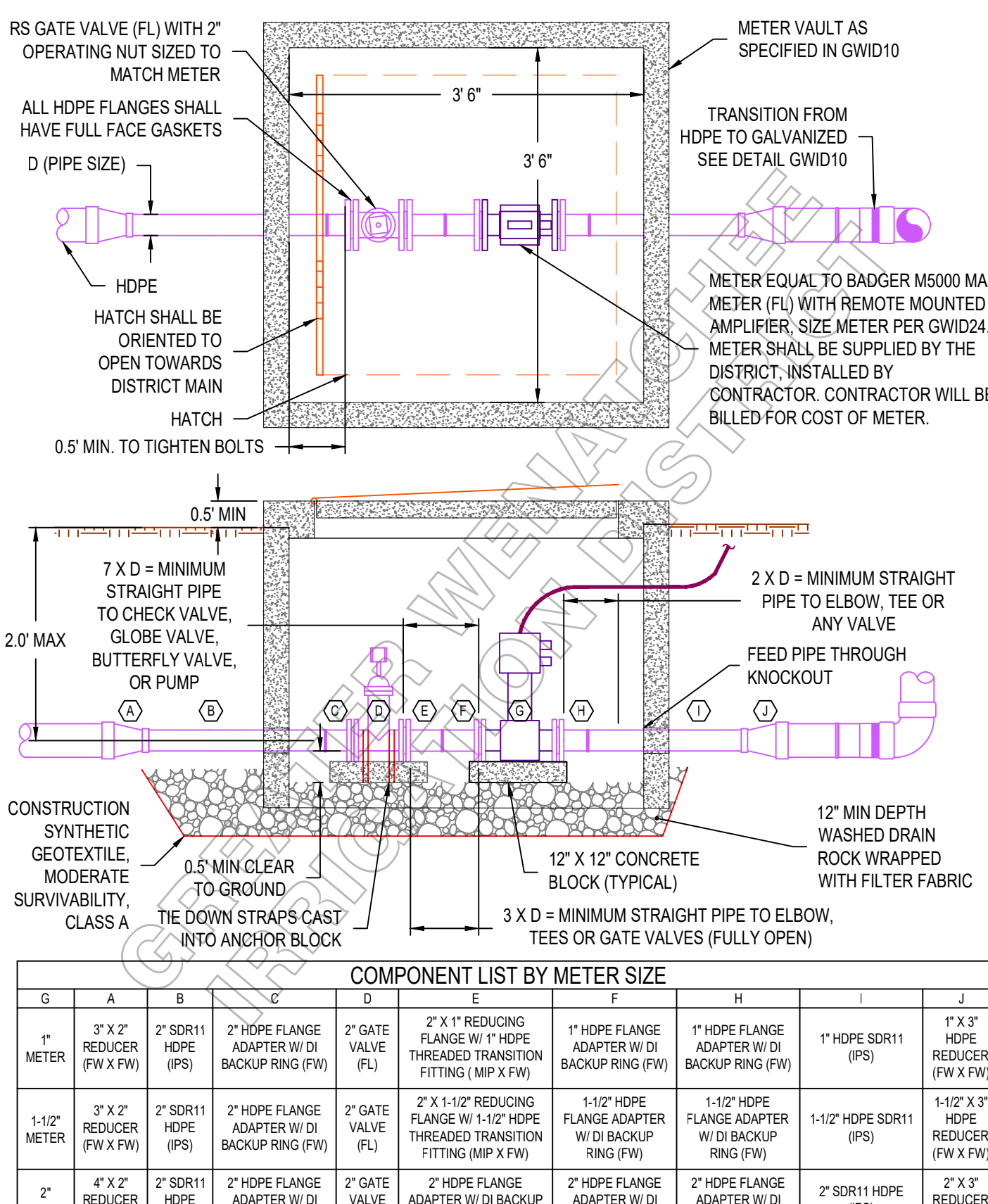
1. DETAILS 1 OR 2 SHALL BE USED WHERE SPECIFIED ON THE PLANS OR WHERE HDPE IS CONNECTED TO UNRESTRAINED GASKETED PIPE. WHERE HDPE IS CONNECTED TO FULLY RESTRAINED PIPING SYSTEM, NO PIPE ANCHOR IS REQUIRED.
2. CONCRETE BLOCK SHALL BE PER SECTION 7-09.3(21) OF THE WSDOT STANDARD SPECIFICATIONS.
3. MAINTAIN 18" MINIMUM COVER OVER THE TOP OF BLOCK.
4. IF BLOCK CANNOT BE KEYED INTO UNDISTURBED SOIL TO THE SATISFACTION OF THE DISTRICT OR ENGINEER, a) THE BLOCK LENGTH SHALL BE EXTENDED TO PROVIDE AN ADEQUATE KEY OR b) CDF SHALL BE USED TO FILL BACK TO NATIVE SOIL OR c) THE TRENCH SHALL BE BACKFILLED AND COMPACTED TO 95% DENSITY A MINIMUM DISTANCE OF 15 FEET IN FRONT OF THE BLOCK TO THE SATISFACTION OF THE DISTRICT OR ENGINEER.

IRRIGATION SYSTEM STANDARD DETAIL			GREATER WENATCHEE IRRIGATION DISTRICT
PIPE TRANSITION			
FILE: GWD-D-PIPETRANS.DWG	REVISED: 12/07/2021	DWG NO: GWD09	



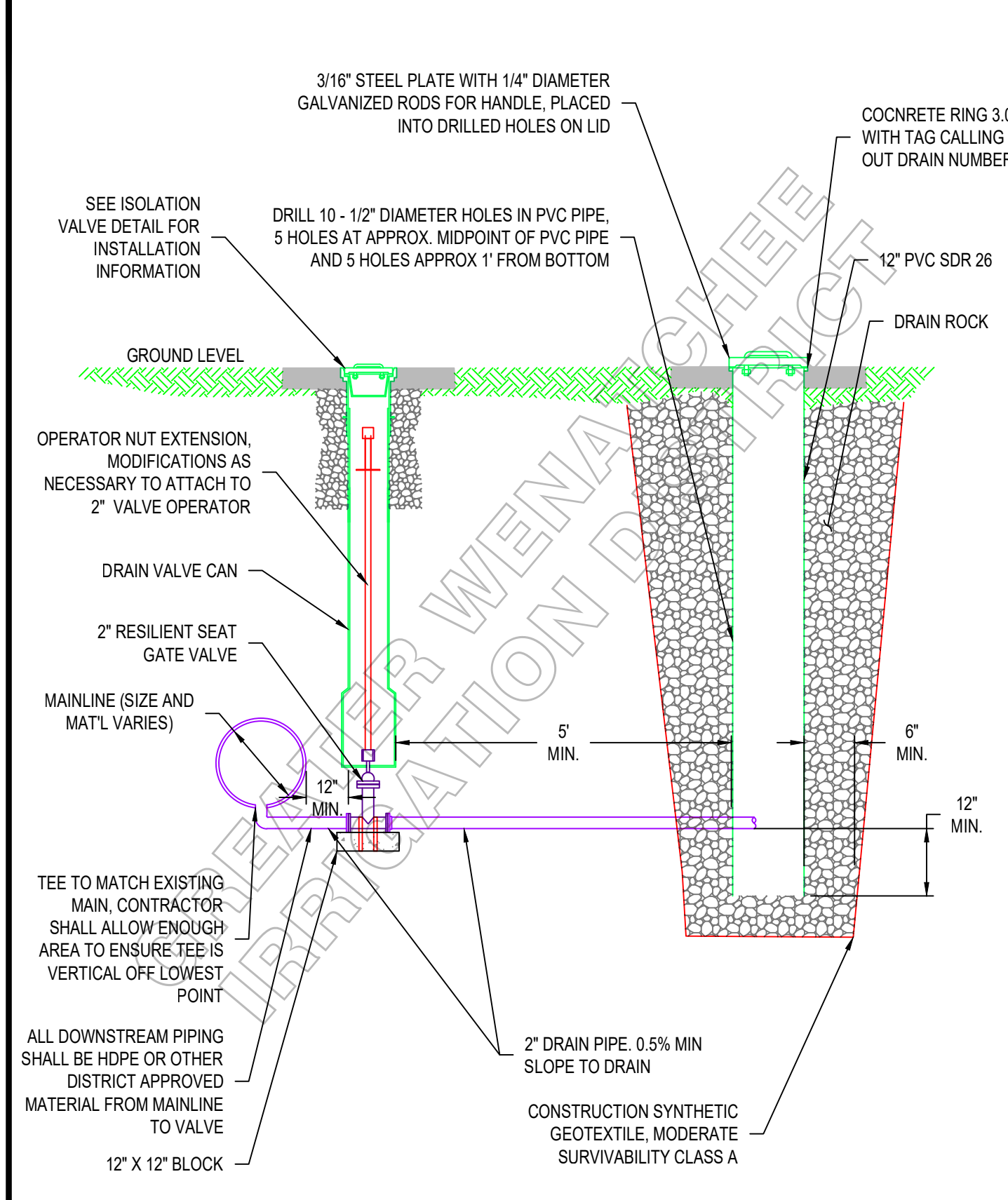
ELEVATION VIEW

IRRIGATION SYSTEM STANDARD DETAIL			GREATER WENATCHEE IRRIGATION DISTRICT
CUSTOMER TURNOUT PAGE 1 OF 2			
FILE: GWD-D--TURNOUT1.DWG	REVISED: 12/07/2021	DWG NO. GWD10	



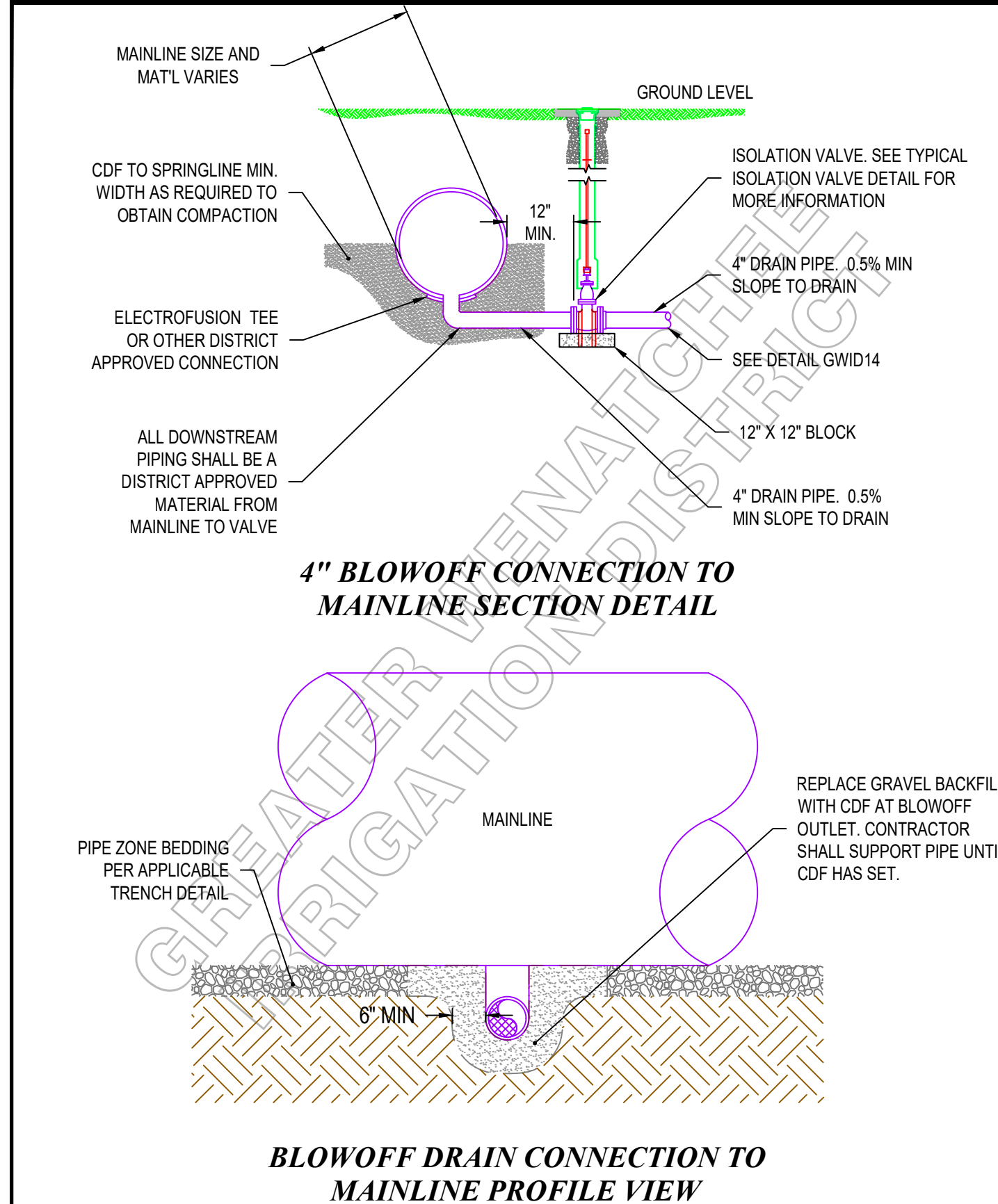
IRRIGATION SYSTEM STANDARD DETAIL
 CUSTOMER TURNOUT PAGE 2 OF 2
 FILE: CWP_01_01_TURNOUT.DWG PLOTNO: 12-07-2001 CWP_01_01.dwg
 GREATER WENATCHEE IRRIGATION DISTRICT

IRRIGATION SYSTEM STANDARD DETAIL		GREATER WENATCHEE IRRIGATION DISTRICT
CUSTOMER TURNOUT PAGE 2 OF 2		
FILE: GWD-D-TURNOUT2.DWG	REVISED: 12/07/2021	



IRRIGATION SYSTEM STANDARD DETAIL			GREATER WENATCHEE IRRIGATION DISTRICT
2 INCH BLOWOFF			
FILE: CWD - 2 - BLOWOFF.DWG	DATE: 12/07/2021	DWG. NO. CWD010	

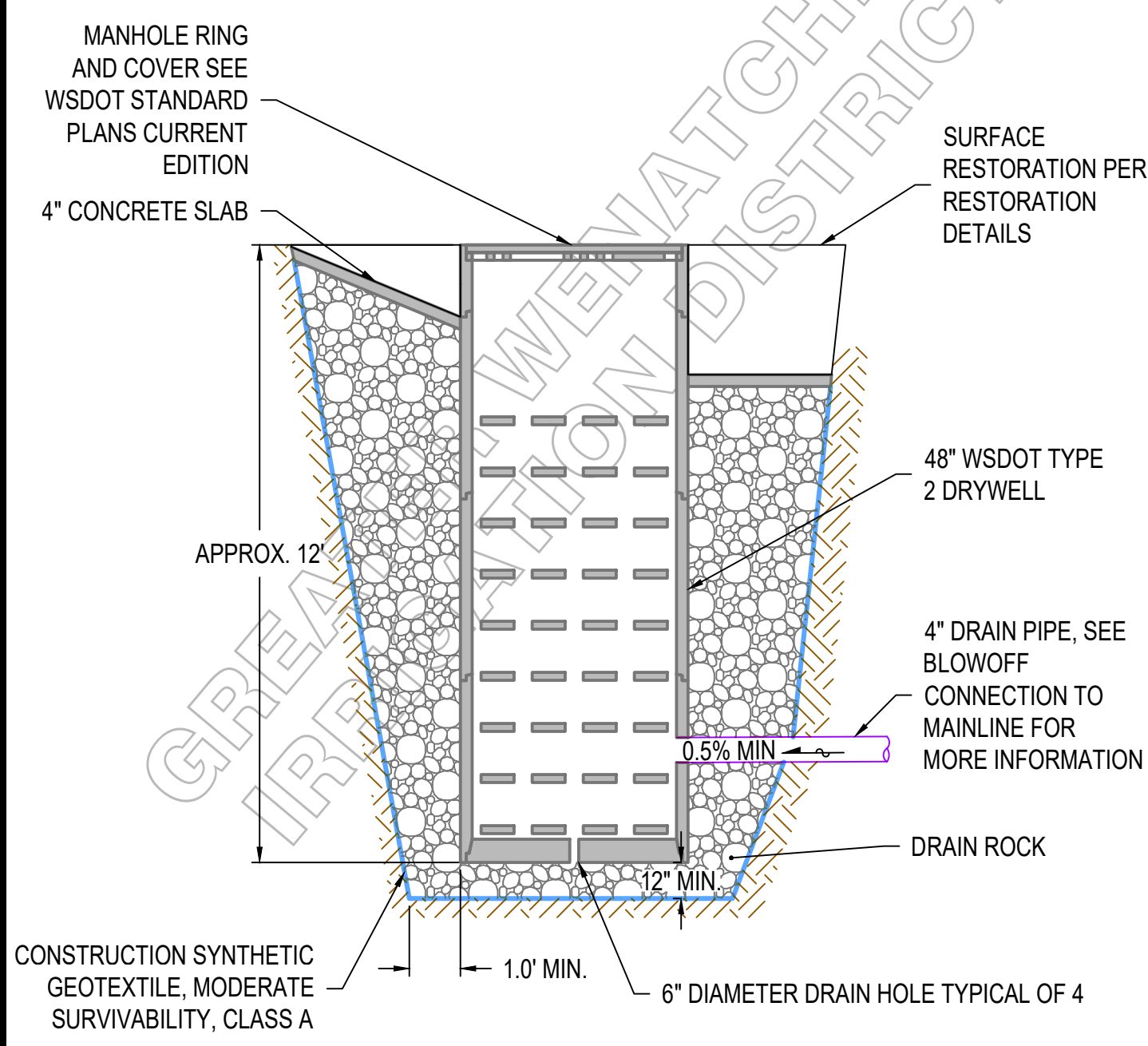
IRRIGATION SYSTEM STANDARD DETAIL			GREATER WENATCHEE IRRIGATION DISTRICT
2 INCH BLOWOFF			
FILE: GWD-D-2BLOWOFF.DWG	REVISED: 12/07/2021	DWG NO. GWD12	



IRRIGATION SYSTEM STANDARD DETAIL			GREATER WENATCHEE IRRIGATION DISTRICT
4 INCH BLOWOFF CONNECTION			
FILE: CWD_0_4_BLOWOFF.CWG	REVISED: 12/07/2021	CWG NO: CWD13	

IRRIGATION SYSTEM STANDARD DETAIL		GREATER WENATCHEE IRRIGATION DISTRICT
4 INCH BLOWOFF CONNECTION		
FILE: GWD-D-4BLOWOFF.DWG	REVISED: 12/07/2021 DWG NO. GWD13	

- BLOWOFF/DRAIN NOTES:
1. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL MATERIALS FOR BLOWOFF ASSEMBLIES, INCLUDING MAINLINE TEE OR SADDLE. CONTRACTOR SHALL TAKE EXTRA CARE TO ENSURE PROPER BEDDING AND COMPACTION SO THAT THE DRAIN DOES NOT ACT AS A POINT LOAD ON THE IRRIGATION MAIN DUE TO SETTLING OF THE SURROUNDING PIPE.
 2. BLOWOFF STRUCTURE FOR 4" BLOW OFF AND LARGER. MUST BE INSTALLED AT ALL LOW POINTS, AS SPECIFIED ON PLANS.



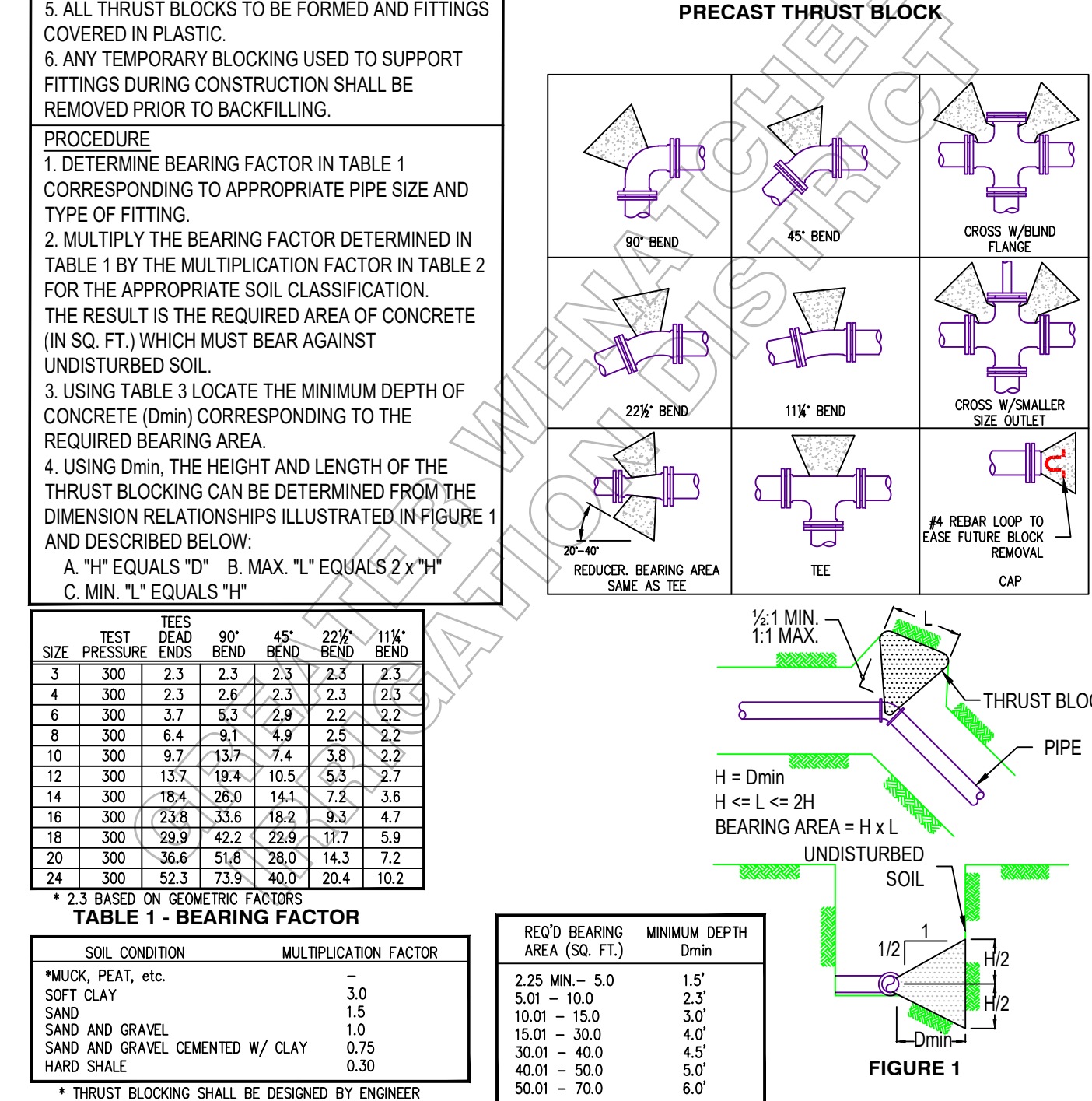
IRRIGATION SYSTEM STANDARD DETAIL			
4 INCH BLOWOFF STRUCTURE			
FILE: CWD_0_4 BLOWOFF.DWG	REVISED: 12 / 07 / 2001	CWD: A/C: CWD14	

GREATER WENATCHEE IRRIGATION DISTRICT

IRRIGATION SYSTEM STANDARD DETAIL			GREATER WENATCHEE IRRIGATION DISTRICT
4 INCH BLOWOFF STRUCTURE			
FILE: GWD-D-4BLOWSTCR.DWG	REVISED: 12/07/2021	DWG NO: GWD14	

CONSTRAINTS

1. SOIL CONDITIONS AND BEARING CHARACTERISTICS SHALL BE DETERMINED BY THE DISTRICT.
2. THE STANDARD DETAIL IS FOR HORIZONTAL THRUST RESTRAINT ONLY.
3. CONCRETE BLOCKING SHALL BE PER DOT/APWA SPECIFICATION 7-09.3(2). CURRENT EDITION.
4. MAINTAIN 18" MINIMUM GROUND COVER OVER THE TOP OF ALL CONCRETE BLOCKING.
5. ALL THRUST BLOCKS TO BE FORMED AND FITTINGS COVERED IN PLASTIC.
6. ANY TEMPORARY BLOCKING USED TO SUPPORT FITTINGS DURING CONSTRUCTION SHALL BE REMOVED PRIOR TO BACKFILLING.

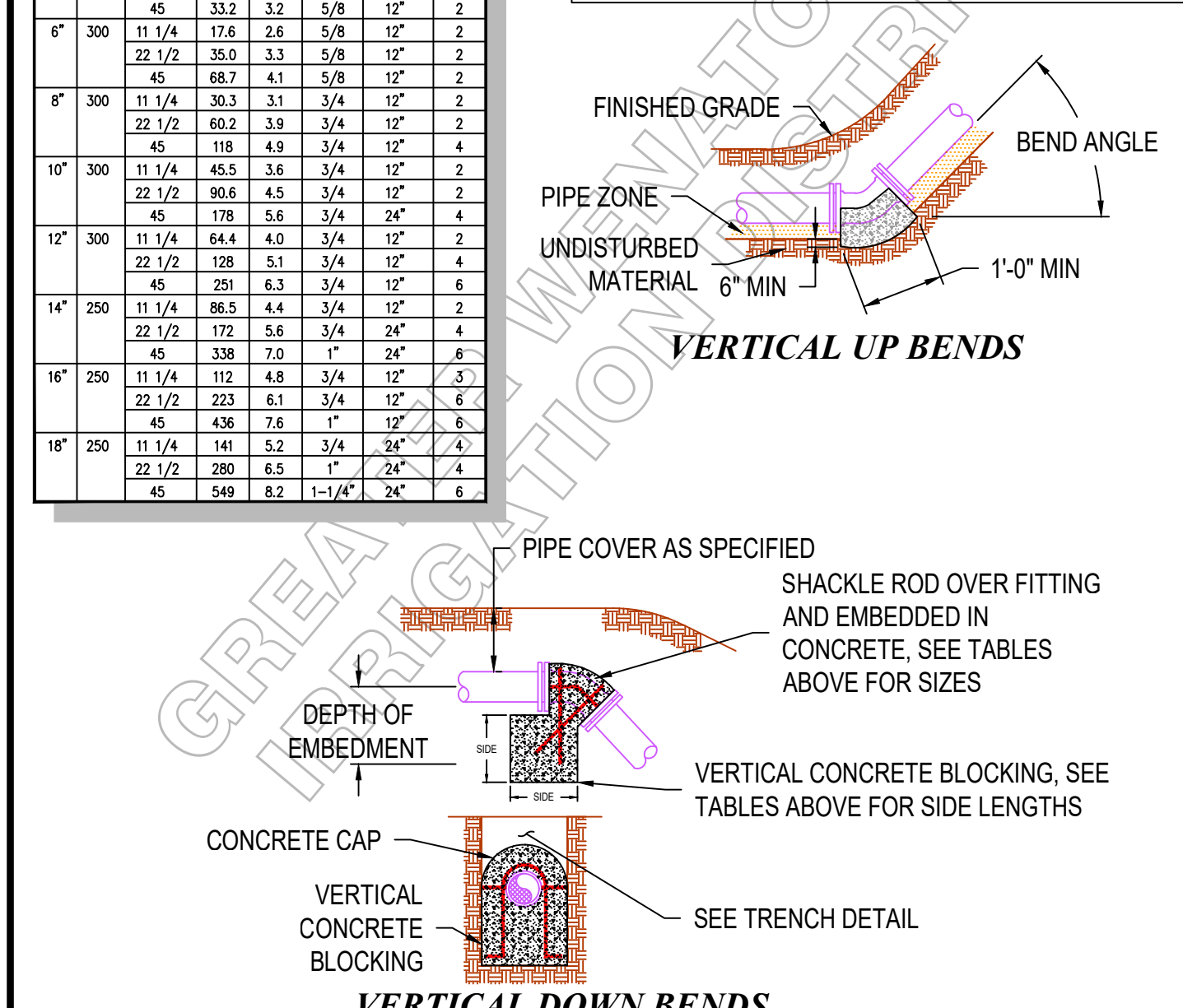


IRRIGATION SYSTEM STANDARD DETAIL HORIZONTAL CONCRETE BLOCKING CWC, CWP, D, TURBID CWC REVISED: 12/07/2001 CWC, NO CHANGE	GREATER WENATCHEE IRRIGATION DISTRICT
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IRRIGATION SYSTEM STANDARD DETAIL			GREATER WENATCHEE IRRIGATION DISTRICT
HORIZONTAL CONCRETE BLOCKING			
FILE: GWD-D--THRSTH.DWG	REVISED: 12/07/2021	DWG NO:GWD15	

VERTICAL THRUST BLOCKING FOR 11'S, 22'S, AND 45' BANDS										
			MB		S		L			
PIPE SIZE	WAL									
DIAMETER - INCHES			TEST PRESSURE	PSI	VERTICAL BOND DEGREES	AMOUNT OF CONCRETE BLOCKING - CU FT	LENGTH OF SIDE FEET	SHOULDER DIA INCHES	DEPTH OF BOND IN CONCRETE INCHES	NUMBER OF THE BOND SETS (2 EMBEDDED RODS PER SET)
5"	300	11 1/4	5.8	1.8	5/8	12"	2			
		22 1/2	11.5	2.3	5/8	12"	2			
		45	22.5	2.8	5/8	12"	2			
4"	300	11 1/4	8.5	2.0	5/8	12"	2			
		22 1/2	17.0	2.6	5/8	12"	2			
		45	33.2	3.2	5/8	12"	2			
3"	300	11 1/4	11.0	3.6	5/8	12"	2			
		22 1/2	35.0	4.7	5/8	12"	2			
		45	68.7	6.1	5/8	12"	4			
8"	300	11 1/4	30.3	3.1	3/4	12"	2			
		22 1/2	60.2	3.9	3/4	12"	2			
		45	118	4.9	3/4	12"	4			
10"	300	11 1/4	45.5	3.6	3/4	12"	2			
		22 1/2	90.6	4.5	3/4	12"	2			
		45	178	5.6	3/4	24"	4			
12"	300	11 1/4	64.4	4.0	3/4	12"	2			
		22 1/2	128	5.1	3/4	12"	4			
		45	251	6.3	3/4	12"	6			
14"	250	11 1/4	86.5	4.4	3/4	12"	2			
		22 1/2	172	5.2	3/4	24"	4			
		45	338	7.0	3/4	24"	6			
16"	250	11 1/4	112	4.8	3/4	12"	3			
		22 1/2	223	6.1	3/4	12"	6			
		45	436	7.6	1"	24"	6			
18"	250	11 1/4	141	5.2	3/4	24"	4			
		22 1/2	280	6.5	1"	24"	4			
		45	549	8.2	1-1/4"	24"	6			

- | |
|---|
| <p>NOTES:</p> <ol style="list-style-type: none"> 1. PROVIDE A 1-INCH MIN. CLEARANCE BETWEEN PIPE FITTINGS AND RODS. MIN. LENGTH OF ROD HOOK SHALL BE 6 INCHES. 2. MIN. CONCRETE COVER OVER ROD SHALL BE 3 INCHES, ALL EDGES. 3. CONCRETE SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 4500 PSI. 4. KEEP CONCRETE CLEAR OF JOINT AND JOINT ACCESSORIES. 5. POUR CONCRETE THRUST BLOCKS AGAINST UNDISTURBED EARTH |
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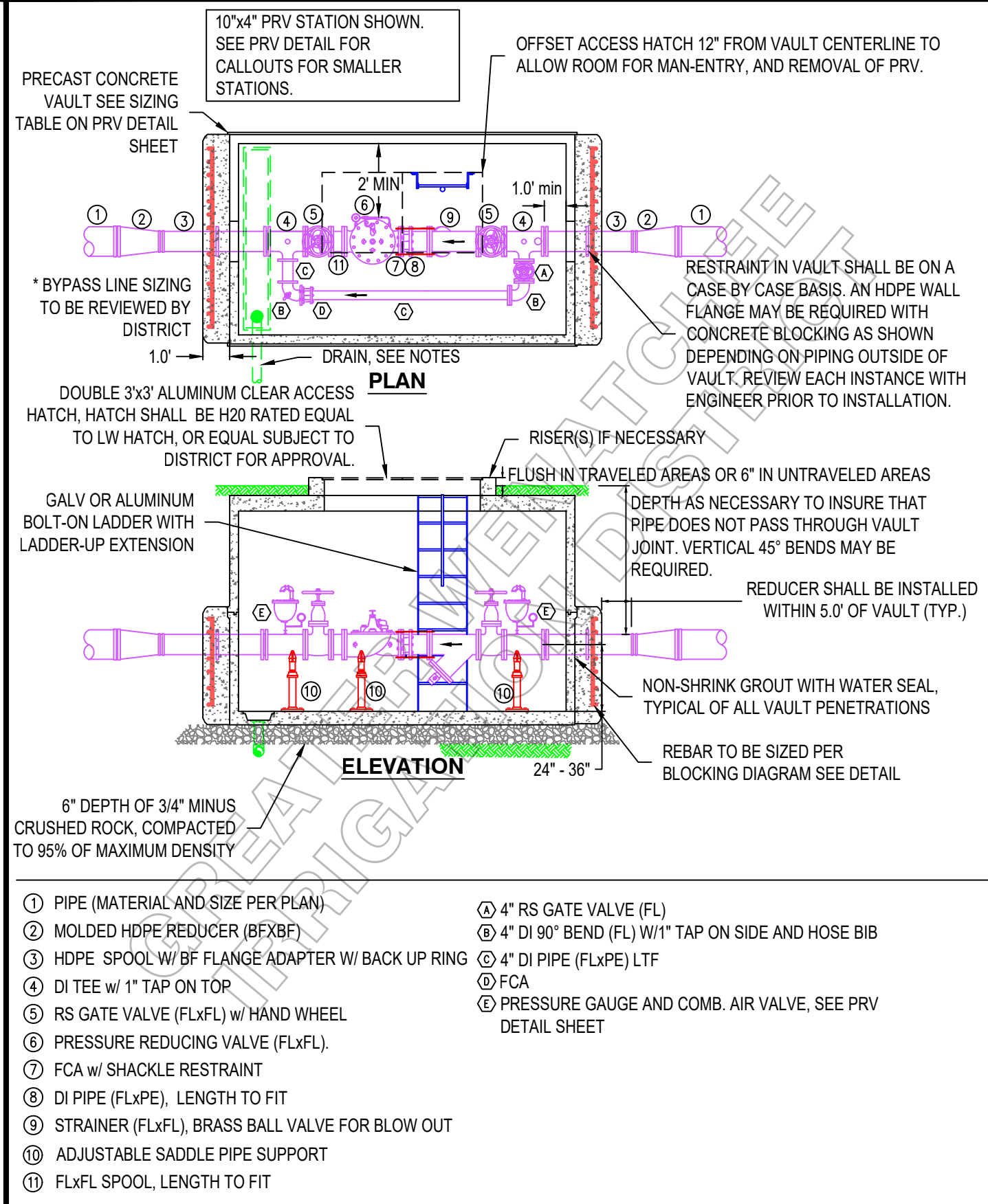
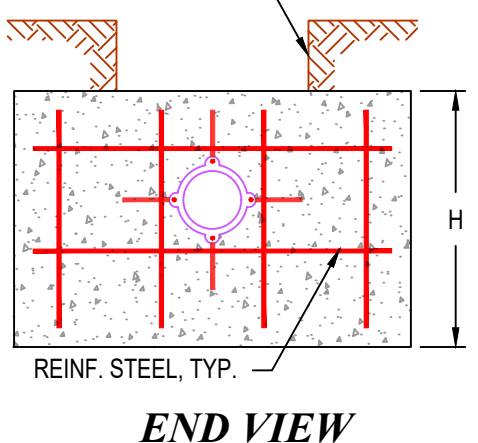
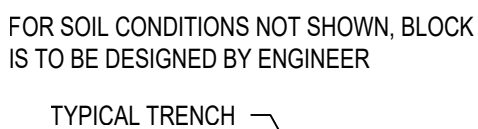
IRRIGATION SYSTEM STANDARD DETAIL			GREATER WENATCHEE IRRIGATION DISTRICT
VERTICAL CONCRETE BLOCKING			
FILE: CWD - D - TURBIDITY CWC	REVISED: 12/07/2021	CWC NO. CWD16	

IRRIGATION SYSTEM STANDARD DETAIL			GREATER WENATCHEE IRRIGATION DISTRICT
VERTICAL CONCRETE BLOCKING			
FILE: GWD-D-THRSTV1.DWG	REVISED: 12/07/2021	DWG NO.GWD16	

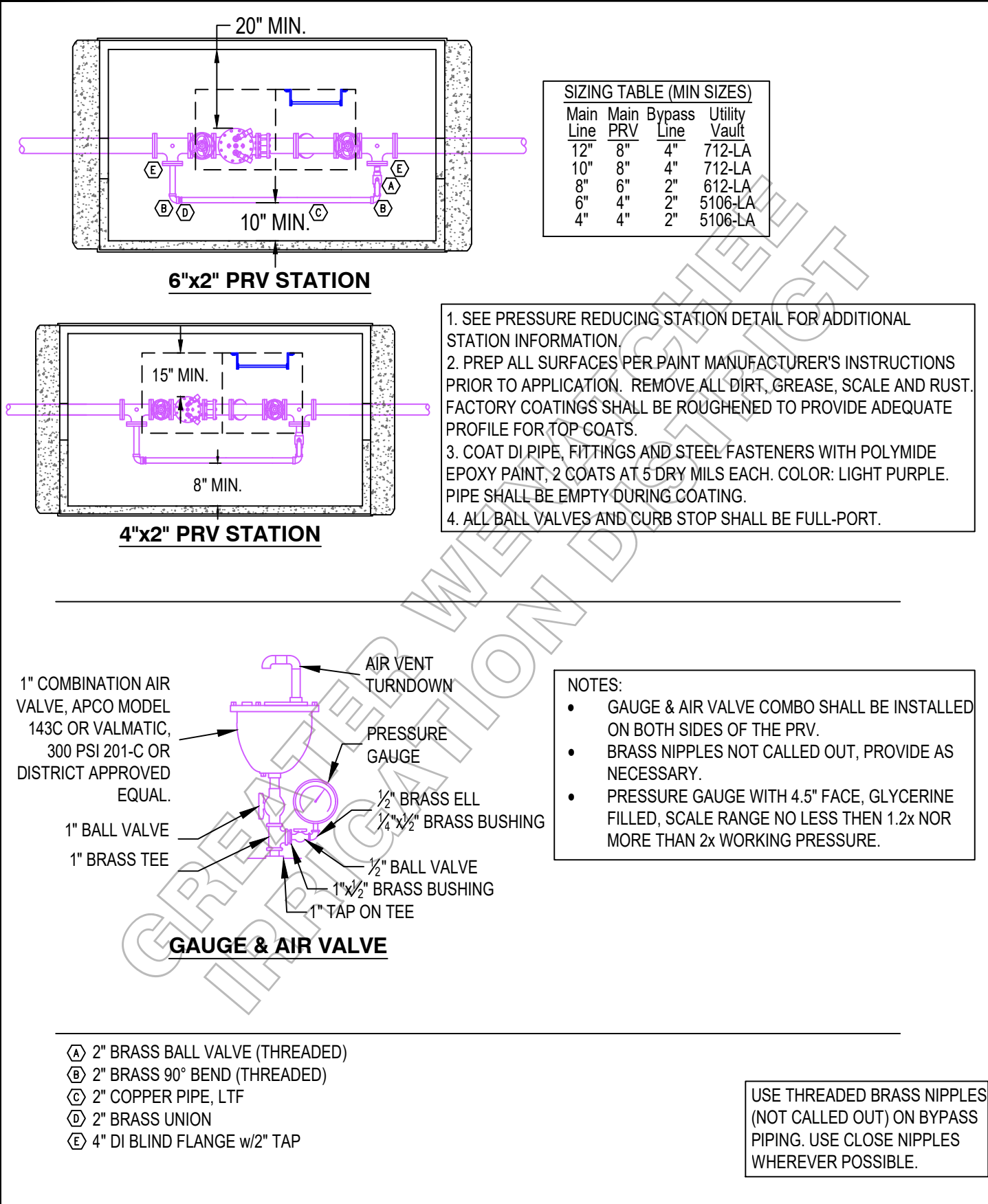
PIPE DIA	T (min)	H (min)	REINFORCING
6"	12"	42"	#4 @ 12" OC EW
8"	12"	44"	#4 @ 12" OC EW
10"	12"	46"	#4 @ 12" OC EW
12"	12"	48"	#4 @ 12" OC EW
14"	12"	78"	#4 @ 12" OC EW
16"	12"	78"	#4 @ 12" OC EW
18"	12"	78"	#4 @ 12" OC EW
20"	12"	84"	#4 @ 12" OC EW
22"	12"	84"	#4 @ 8" OC EW
24"	12"	84"	#4 @ 8" OC EW
26"	12"	90"	#4 @ 6" OC EW
28"	12"	90"	#4 @ 6" OC EW
30"	12"	90"	#4 @ 6" OC EW

NOTE:
FOR PIPE SIZES LESS THAN 22" DIAMETER, THE
FOLLOWING CONDITIONS APPLY:

1. $L = 48" + OD$
2. $H = 36" + OD$
3. $T = 12"$
4. REBAR REQUIREMENTS = #4 @ 12" OC

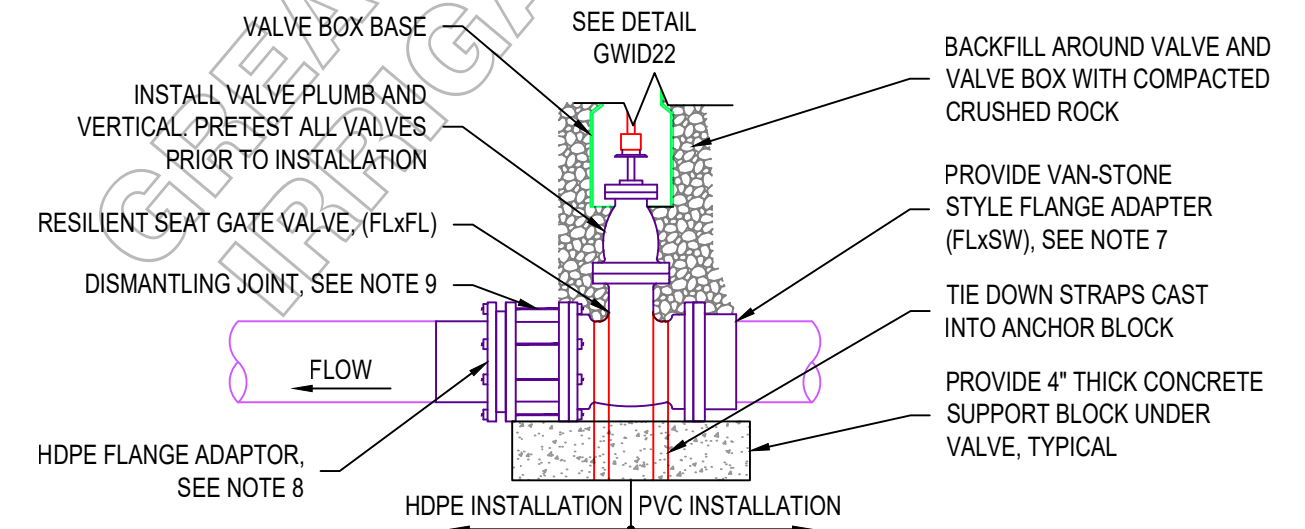


IRRIGATION SYSTEM STANDARD DETAIL			GREATER WENATCHEE IRRIGATION DISTRICT
10 INCH PRESSURE REDUCING STATION			
FILE: GWD-D-PRV.DWG	REVISED: 12/07/2021	DWG NO. GWD18	

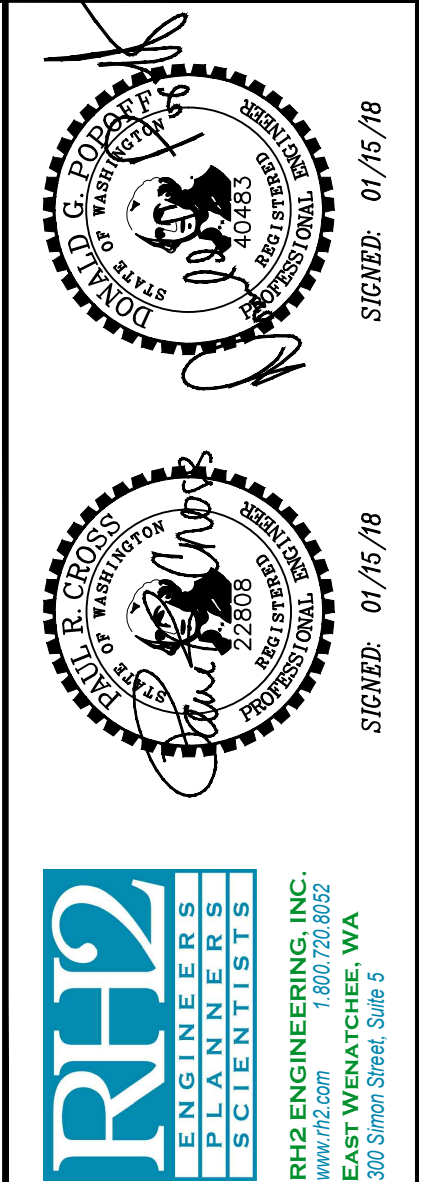


IRRIGATION SYSTEM STANDARD DETAIL			GREATER WENATCHEE IRRIGATION DISTRICT
PRESSURE REDUCING STATION DETAIL			
FILE: GWD-D-PRV-DETAIL.DWG	REVISED: 12/07/2021	DWG NO. GWD19	

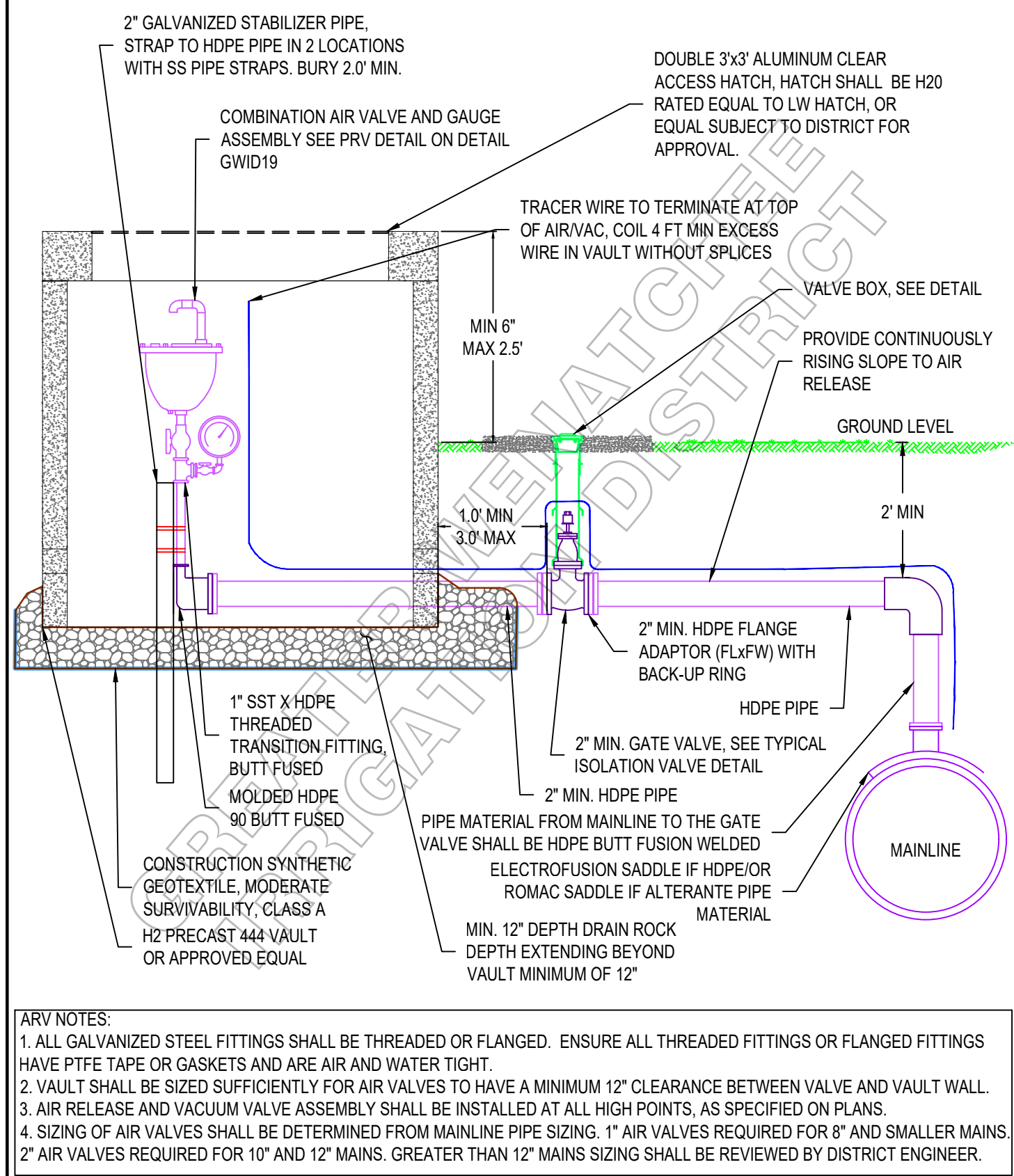
1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL FITTINGS REQUIRED TO TRANSITION BETWEEN PIPE AND VALVE AND PIPES OF VARYING MATERIALS.
2. UNLESS DIRECTED OTHERWISE CONTRACTOR SHALL NOT REDUCE MAINLINE INTERNAL DIAMETER AT VALVE. MEETING THIS REQUIREMENT MAY REQUIRE ADDITIONAL FITTINGS BEYOND WHAT IS SHOWN ON THE PLANS AND DETAILS.
3. THE CONTRACTOR SHALL CONFIRM THE PROPER OPERATION OF ALL VALVES PRIOR TO FINAL CONNECTION OF VALVE. CONTRACTOR SHALL OPERATE VALVES WITH GWDID REPRESENTATIVE PRESENT TO VERIFY CORRECT OPERATION. GWDID REPRESENTATIVE SHALL RECORD NECESSARY TURNS AND COMPARE WITH SUBMITTED SPECIFICATIONS.
4. ALL VALVES SHALL BE WRAPPED IN PLASTIC AND TAPED PRIOR TO BURIAL.
5. EXTENSIONS ARE REQUIRED WHEN THE VALVE NUT IS MORE THAN 3.5-FT BELOW FINISHED GRADE. EXTENSIONS ARE TO BE A MIN. OF 1-FT LONG, ONLY ONE EXTENSION PER VALVE. ALL EXTENSIONS ARE TO BE MADE OF STEEL SIZED AS NOTED, AND COATED TO PREVENT CORROSION.
6. USE MARKER POST WHEN VALVE IS LOCATED OUT OF TRAVELED WAY OR AT THE DIRECTION OF THE DISTRICT.
7. FOR PVC, PROVIDE VAN-STONE STYLE FLANGE ADAPTER (FLX\$W).
8. FOR HDPE, PROVIDE HDPE FLANGE ADAPTER (FLX\$W). FLANGE ADAPTORS SHALL HAVE AN EPOXY COATED STEEL BACKUP RING AND FULL FACED FLANGE GASKET. INSTALL PER MANUFACTURER'S RECOMMENDATION.
9. WHERE PIPE UPSTREAM AND DOWNSTREAM OF VALVE IS STEEL, DUCTILE IRON, OR HDPE, CONTRACTOR SHALL PROVIDE DISMANTLING JOINT TO FACILITATE VALVE REMOVAL AND INSTALLATION. DISMANTLING JOINT SHALL BE ROMAC DJ400 OR APPROVED EQUAL. LOCATE DISMANTLING JOINT ON DOWNSTREAM SIDE OF VALVE.



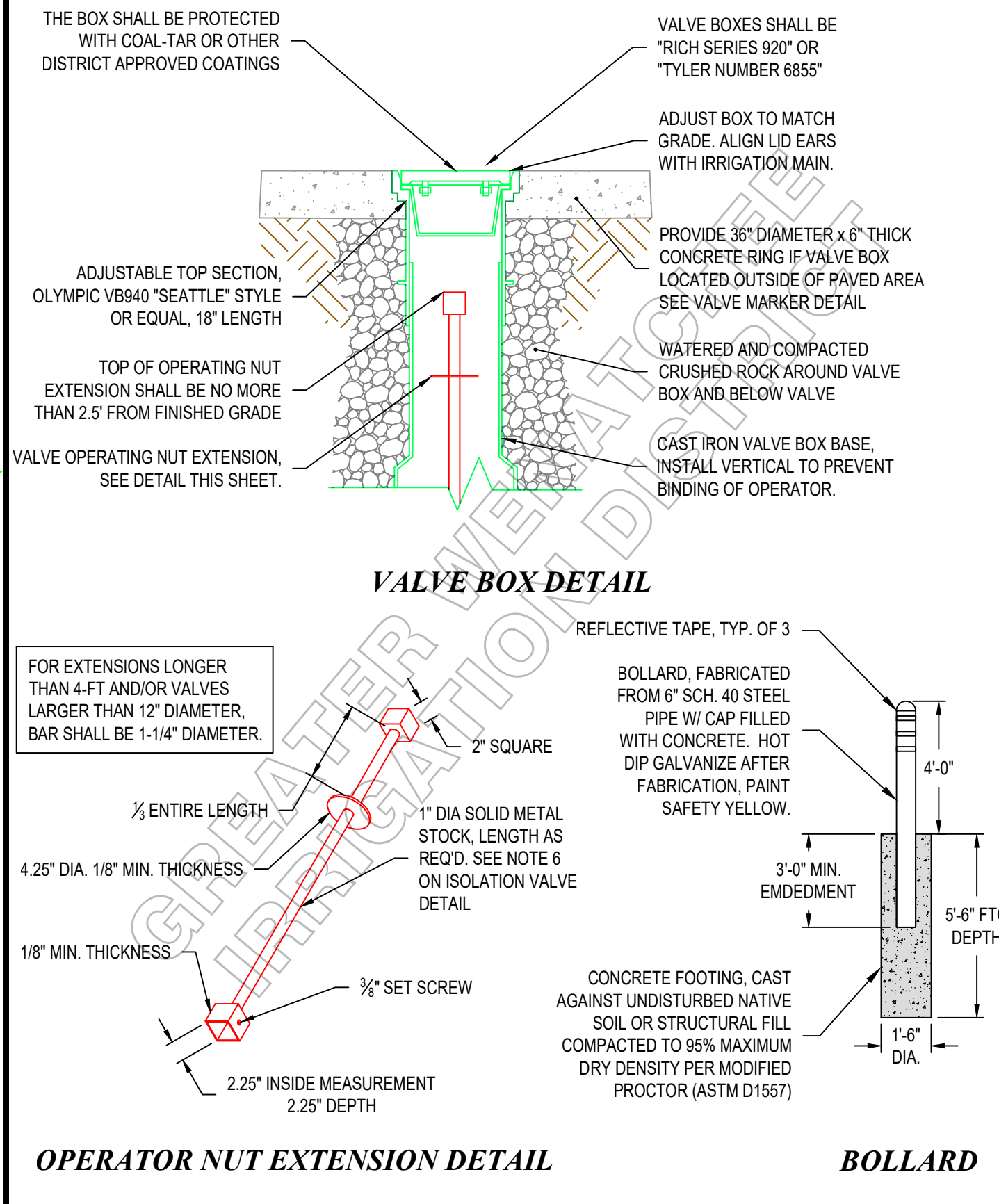
IRRIGATION SYSTEM STANDARD DETAIL			GREATER WENATCHEE IRRIGATION DISTRICT
ISOLATION VALVE			
FILE: GWD-D-ISO/VALVE.DWG	REVISED: 12/07/2021	DWG NO: GWD20	



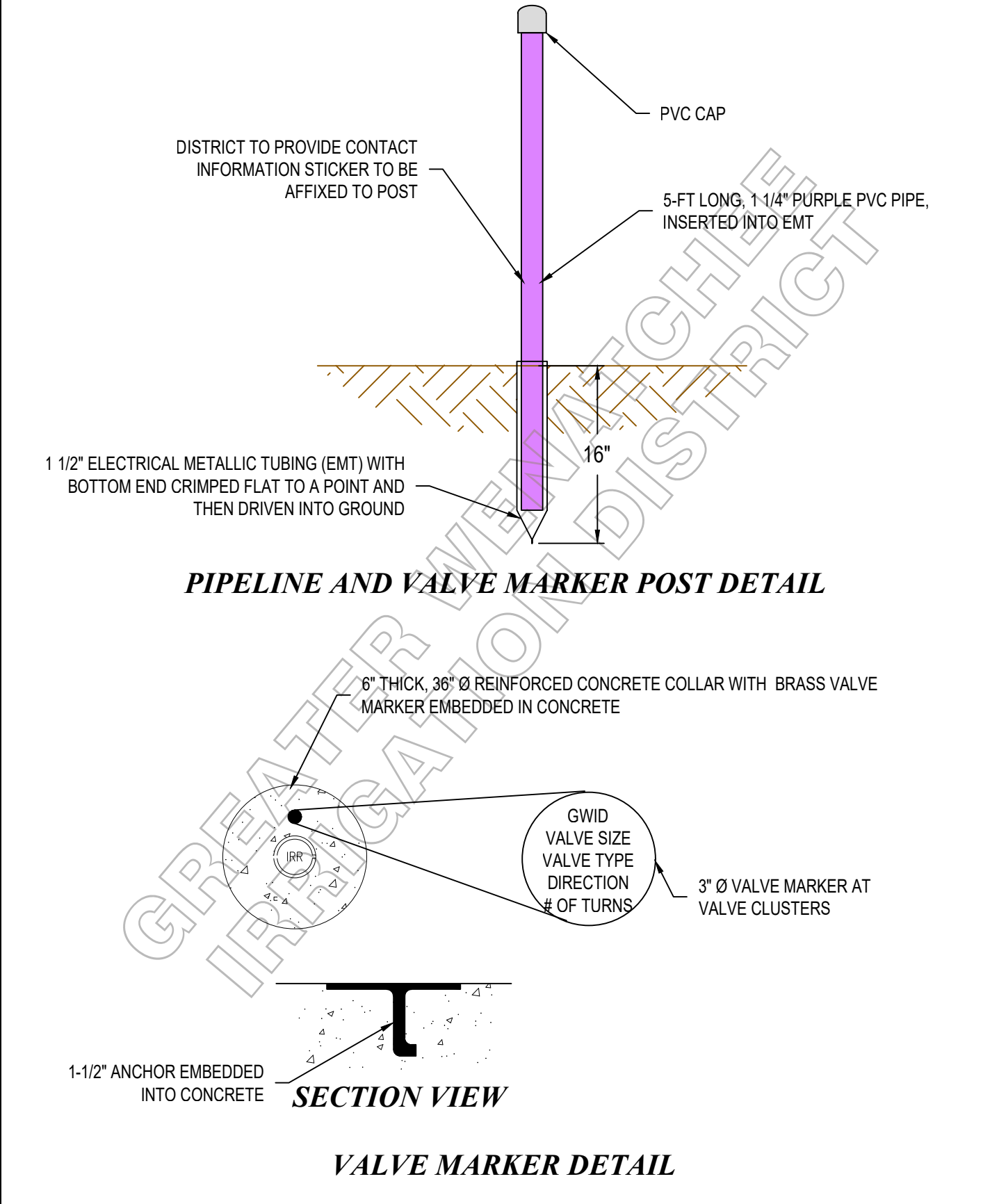
**GREATER WENATCHEE
IRRIGATION DISTRICT**



IRRIGATION SYSTEM STANDARD DETAIL			GREATER WENATCHEE IRRIGATION DISTRICT
AIR RELEASE & VACUUM VALVE ASSEMBLY			
FILE: GWD-D-AIRVALVE.DWG	REVISED: 12/07/2021	DWG NO. GWD21	



IRRIGATION SYSTEM STANDARD DETAIL			GREATER WENATCHEE IRRIGATION DISTRICT
VALVE BOX, OPERATOR NUT EXTENSION, & BOLLARD			
FILE: GWD-D-VALVE1.DWG	REVISED: 12/07/2021	DWG NO. GWD22	



IRRIGATION SYSTEM STANDARD DETAIL			GREATER WENATCHEE IRRIGATION DISTRICT
VALVE MARKER & POST			
FILE: GWD-D-VALVE2.DWG	REVISED: 12/07/2021	DWG NO.GWD23	

METER SIZING CRITERIA

LAND AREA APPLIED (ACRES)		FLOW RATE (GPM)		MIN. METER SIZE (INCH)	TURNOUT TEE AND PIPE SIZE (INCH)
min	max	min	max		HDPE
5	9	40	70	1	3 - MIN SIZE
9	25	70	184	1 1/2	3
25	42	184	315	2	4
42	73	315	544	2 1/2	4
73	98	544	736	3	4
98	147	736	1,100	4	6
147	236	1,100	1,763	5	8
236	350	1,763	2,617	6	8
350	699	2,617	5,232	8	12

NOTE: THE DISTRICT'S TYPICAL RULE OF THUMB FOR REPLACING CONVENTIONAL TURBINE OR PROPELLER METERS OR OTHER OLDER METERS (NON-MAGMETERS) WOULD PROVIDE THE NEW MAG METER ONE NOMINAL SIZE SMALL.

FOR EXAMPLE:
3" METER (TURBINE OR PROPELLER) WOULD BE REPLACED WITH 2" MAG METER.
4" METER (TURBINE OR PROPELLER) WOULD BE REPLACED WITH 3" MAG METER.

ACTUAL ACREAGE AND FLOW CAN BE REVIEWED ON A CASE BY CASE BASIS.

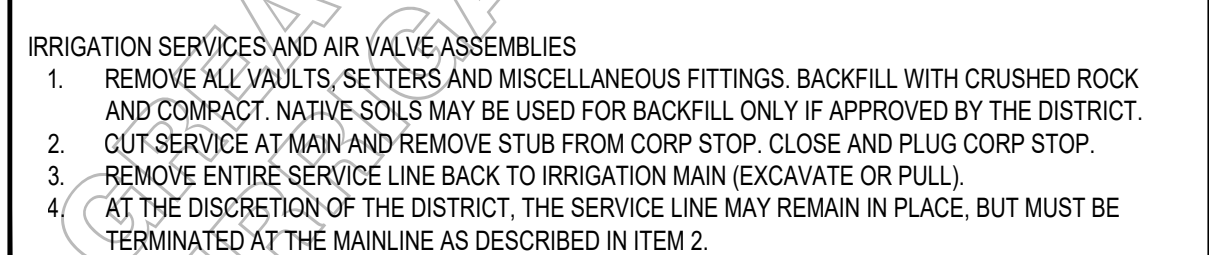
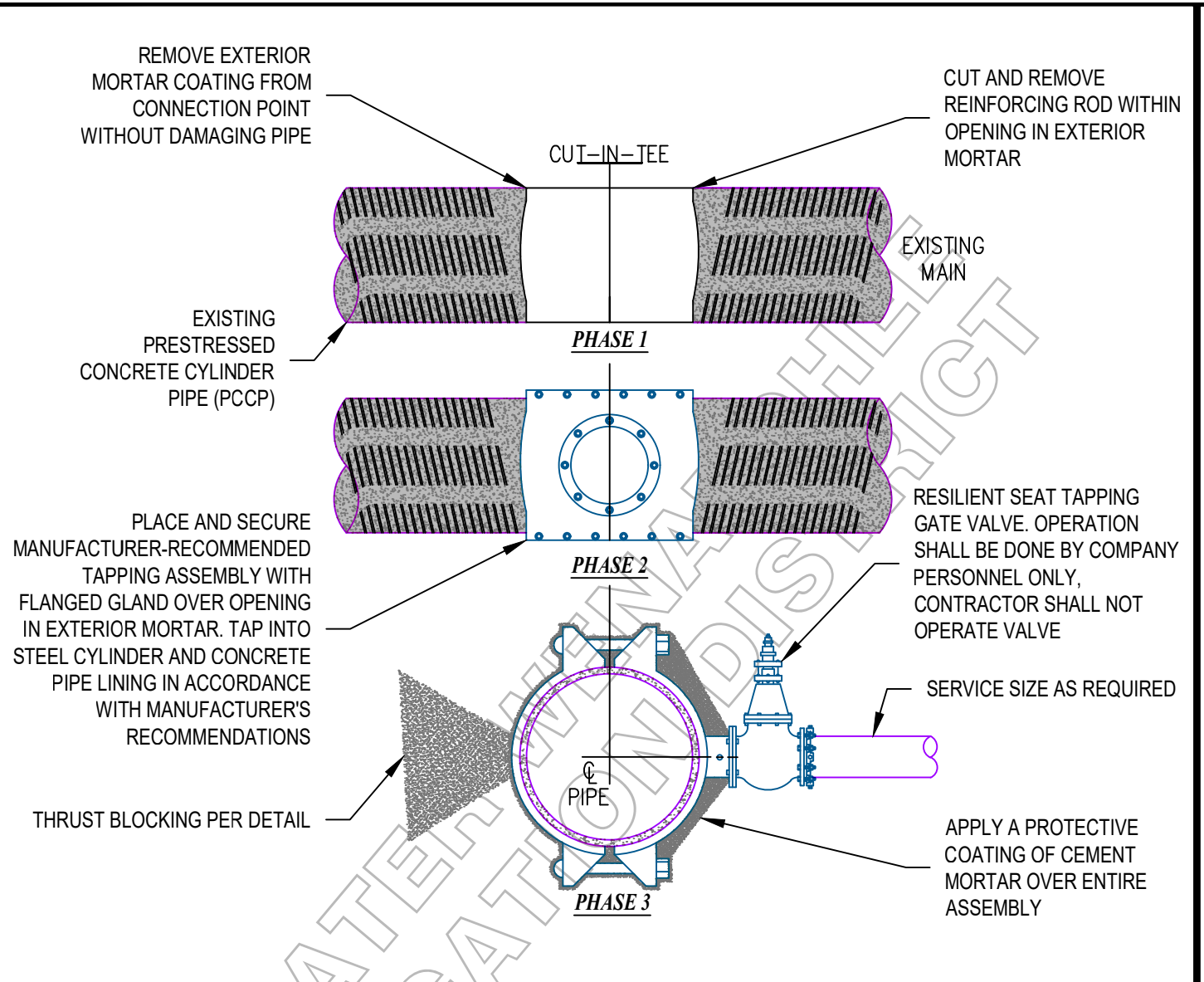
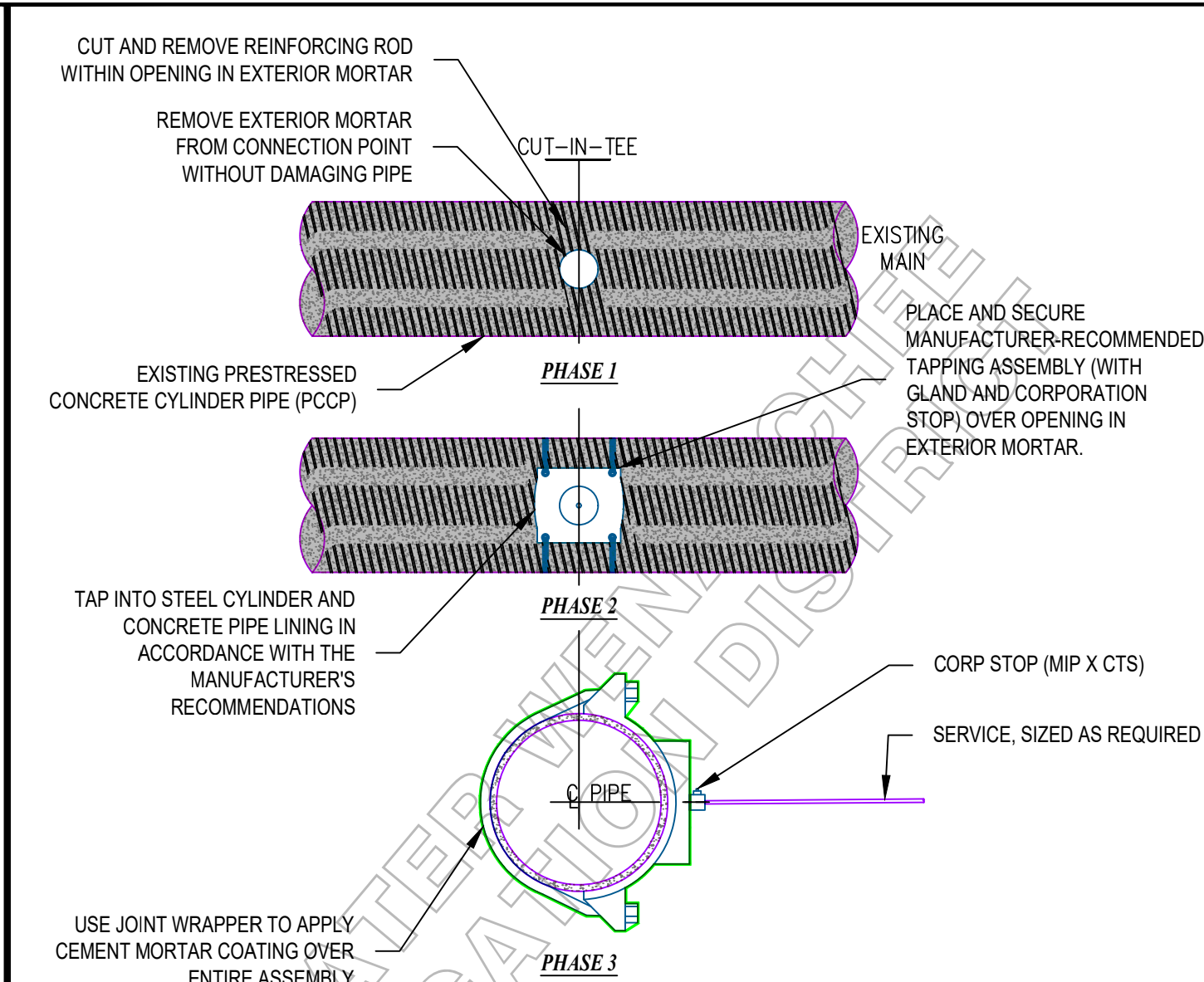
IRRIGATION SYSTEM STANDARD DETAIL			GREATER WENATCHEE IRRIGATION DISTRICT
METER SIZING CRITERIA			
FILE: GWD-D-METER.DWG	REVISED: 12/07/2021	DWG NO. GWD24	

ENGINEER: JTR	SAVE DATE: Dec 9, 2021	CADRIC: GWH	SHEET NO.: 4
REVIEWED: PRC	PLOT DATE: Dec 9, 2021	FILENAME: GWID_BROR_COMBINED.DWG	
REVISIONS			
NO.	DATE	DESCRIPTION	BY
			REVIEW

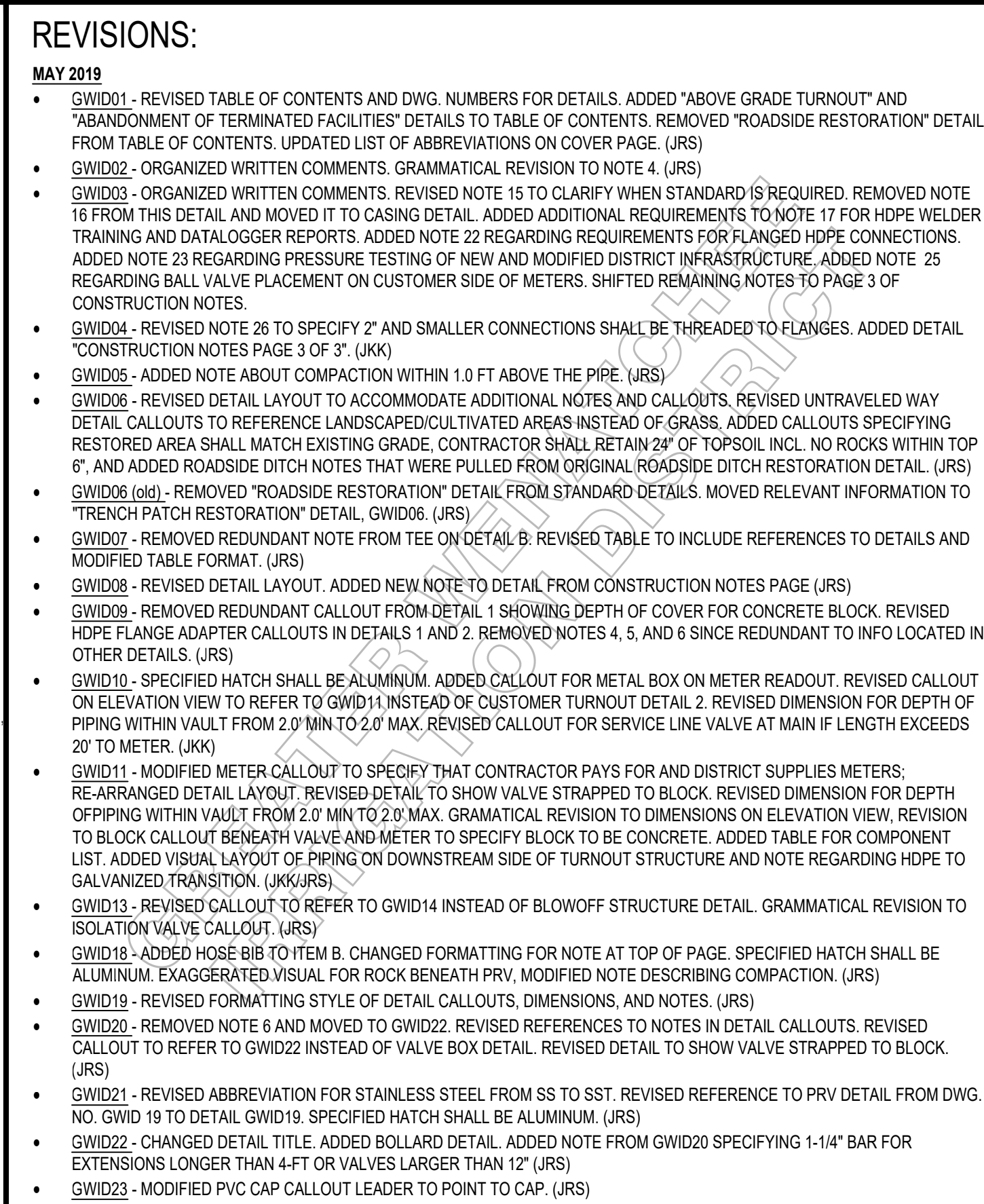
SCALE: SHOWN

DRAWING IS FULL SCALE WHEN BAR MEASURES 2"

DWG NO.: D03	SHEET NO.: 3
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IRRIGATION SYSTEM STANDARD DETAIL ABANDONMENT OF TERMINATED FACILITIES		GREATER WENATCHEE IRRIGATION DISTRICT
FILE: CWD-D- ABANDONMENT DWG:	REVISED: 12/07/2021 DWG NO. GWD28	



IRRIGATION SYSTEM STANDARD DETAIL			GREATER WENATCHEE IRRIGATION DISTRICT
REVISIONS (CONT'D)			
FILE: GWD-D-REV.DWG	REVISED: 12/07/2021	DWG NO. REV 2	

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IRRIGATION STANDARD DETAILS

[illegible]