

HORIZONTAL LIMITS

PIPE ID + 24" FOR

PIPE ID LESS THAN 15%

0.7' MAX.

TRENCH DETAIL

METALLIC

LOCATOR TAPE

1.5' WIDTH C.D.F.

TRENCH DAM IF

NECESSARY

IRRIGATION MAIN -

PIPE ZONE BEDDING AND

AND PROVIDE FOUNDATION

EXCAVATE UNSUITABLE MATERIAL

MATERIAL CLASS A CONFORMING

TO A UNIFORMLY DENSE AND

UNSUITABLE MATERIAL IS

BY THE ENGINEER

IRRIGATION SYSTEM STANDARD DETAIL

IRRIGATION TRENCH DETAIL

FILE: GWID-D-TRENCH.DWG REVISED: 12/07/2021 DWG NO.GWIDO

TO WSDOT SS 9-03.17 COMPACTED

UNYIELDING FOUNDATION, WHEN

ENCOUNTERED AND AS DIRECTE

BACKFILL PER DETAIL

4.0' MIN.

STABILITY AND SAFETY.

MODIFIED PROCTOR.

TO DAMAGE PIPE.

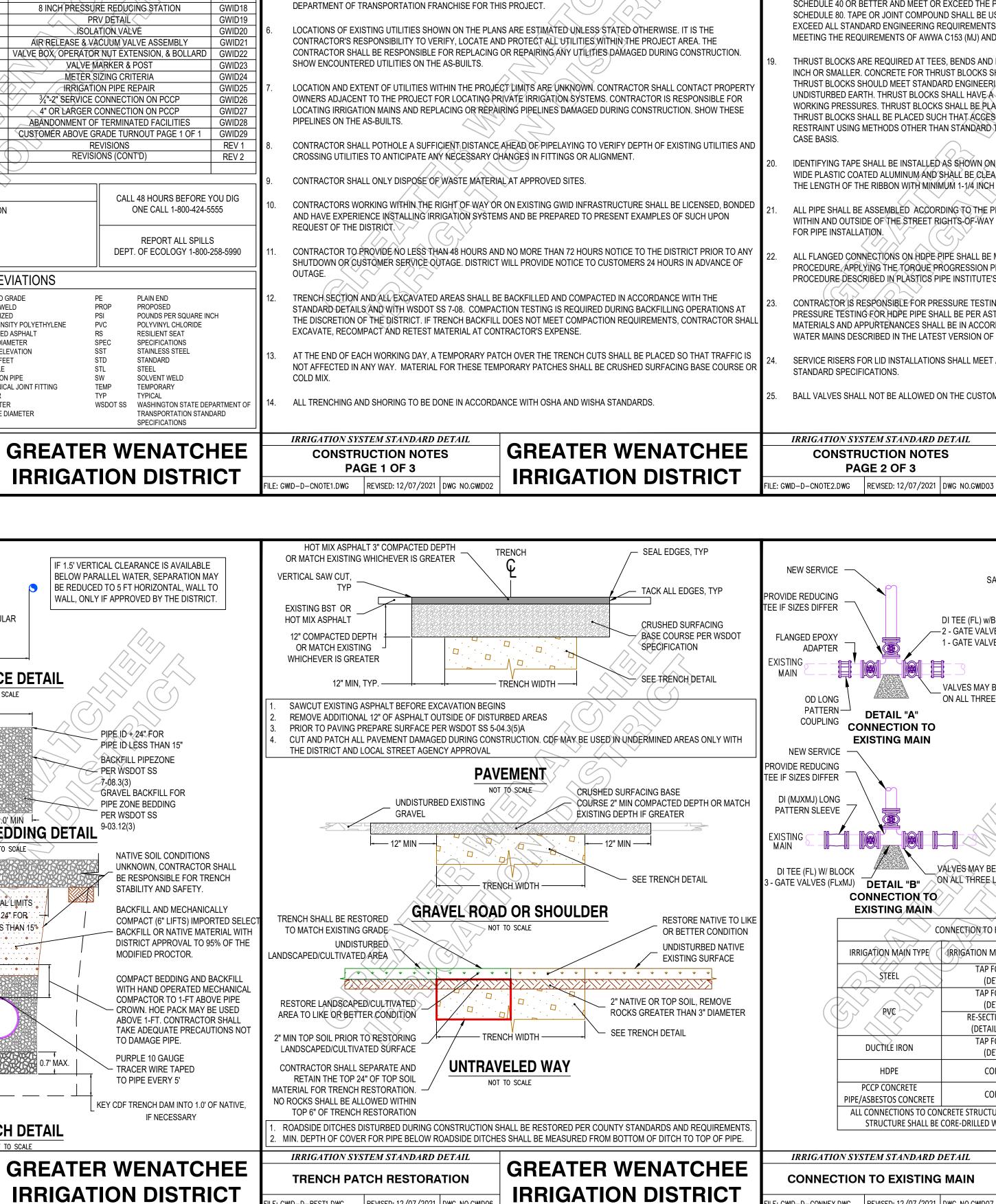
PURPLE 10 GAUGE

TO PIPE EVERY 5'

TRACER WIRE TAPED

IF NECESSARY

: GWID-D-REST1.DWG REVISED: 12/07/2021 DWG NO.GWIDO



IRRIGATION WATER ALLOTMENT IS 7.3 GPM PER ACRE, THE SYSTEM SHALL BE SIZED TO DELIVER 130 PERCENT OF THE TOTAL

ALLOTMENT, VELOCITIES SHALL NOT EXCEED FIVE FEET PER SECOND. THE MINIMUM PIPE SIZE (EXCEPT FOR SERVICE RISER)

AN ELECTRONIC AS-BUILT RECORD MUST BE SUBMITTED TO THE DISTRICT BEFORE IRRIGATION SERVICE WILL BE PROVIDED.

(GWID) STANDARD SPECIFICATIONS AND THE SPECIAL PROVISIONS AND STANDARD SPECIFICATIONS FOR ROAD, BRIDGE AND

MUNICIPAL CONSTRUCTION, MOST CURRENT EDITION, AS ISSUED BY THE WA. STATE DEPT. OF TRANSPORTATION (WSDOT SS

A PRECONSTRUCTION CONFERENCE IS REQUIRED PRIOR TO CONSTRUCTION AND 48 HOURS ADVANCE NOTIFICATION OF THE

CONSTRUCTION PERMIT AS ISSUED BY THE LOCAL TRANSPORTATION AGENCY, LOCAL CITY JURISDICTION, AND/OR WA. STATE

LOCAL MUNICIPALITY, GWID AND ALL AFFECTED UTILITY COMPANIES IS REQUIRED PRIOR TO THE ACTUAL START OF WORK.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH THE PROVISIONS OF THE RIGHT-OF-WAY /STREET

CONSTRUCTION OF IMPROVEMENTS SHALL BE IN ACCORDANCE WITH THE GREATER WENATCHEE IRRIGATION DISTRICT

SHALL BE 2" IN DIAMETER

IF THE PLANNED IMPROVEMENTS UTILIZE FEDERAL FUNDING OR ARE OTHERWISE MANDATED BY PROJECT FUNDING REQUIREMENTS, ALL METAL PRODUCTS AND FITTING COMPONENTS (E.G. BOLTS, GASKETS, ETC) ARE TO BE OF DOMESTIC FABRICATION & CONSTRUCTION

NO RESTRAINTS, GASKETS, OR PIPES (PORTIONS AFFECTED) MAY BE REUSED ONCE ASSEMBLED.

ALL PIPE SHALL BE HDPE 4710, MIN. SDR 11, IPS PIPE. SUBSTITUTION OF OTHER PIPE MATERIALS MAY BE ALLOWED WITH DISTRICT APPROVAL, ALL HOPE PIPING SHALL BE BUTT FUSED BY A CERTIFIED HOPE WELDER HAVING TRAINING AT LEAST MEETING THE REQUIREMENTS OF PPI TN-42. THE FUSION EQUIPMENT SHALL BE EQUIPPED WITH A DATALOGGER FOR RECORDING HEATER TEMPERATURE AND FUSION PRESSURE. ALL JOINTS SHALL BE NUMBERED AND A DATALOG RECORDIN SHALL BE MADE INDICATING THE JOINT NUMBER. THE JOINT NUMBER SHALL BE CLEARLY WRITTEN ON THE PIPELINE AT THE JOINT FOR FURTHER INSPECTION. A REPORT SHALL BE SUBMITTED TO THE DISTRICT PRIOR TO BACKFILL OF PIPING DETAILING THE DATALOGGER INFORMATION RECORDED FOR EACH JOINT.

ALL PVC FITTINGS 3 INCHES AND SMALLER SHALL BE SOLVENT WELDED OR THREADED. SOLVENT WELD FITTINGS MUST BE SCHEDULE 40 OR BETTER AND MEET OR EXCEED THE PRESSURE RATING OF THE PIPE. THREADED PVC FITTINGS SHALL BE SCHEDULE 80. TAPE OR JOINT COMPOUND SHALL BE USED ON THREADS. FITTINGS LARGER THAN 3 INCHES SHALL MEET OR EXCEED ALL STANDARD ENGINEERING REQUIREMENTS. FITTINGS FOR DUCTILE IRON PIPE OR C900 SHALL BE DUCTILE IRON MEETING THE REQUIREMENTS OF AWWA C153 (MJ) AND C110 (FL).

THRUST BLOCKS ARE REQUIRED AT TEES, BENDS AND DEAD ENDS EXCEPT TEES LEADING TO SINGLE SERVICE RISERS OF 3 THRUST BLOCKS SHOULD MEET STANDARD ENGINEERING DESIGN FOR THE RIPE SIZE AND SOIL TYPE AND POURED AGAINST UNDISTURBED EARTH. THRUST BLOCKS SHALL HAVE A BEARING AREA AS REQUIRED FOR RESTRAINT OF TESTING AND WORKING PRESSURES. THRUST BLOCKS SHALL BE PLACED AT ALL DESIRED LOCATIONS DESCRIBED IN THIS DOCUMENT THRUST BLOCKS SHALL BE PLACED SUCH THAT ACCESSIBILITY TO THE PIPE AND THE FITTINGS IS NOT IMPAIRED. THRUST RESTRAINT USING METHODS OTHER THAN STANDARD THRUST BLOCKS SHALL BE REVIEWED BY THE DISTRICT ON A CASE B CASE BASIS.

IDENTIFYING TAPE SHALL BE INSTALLED AS SHOWN ON THE DETAIL FOR ALL PIPES. PIPE LOCATOR RIBBON SHALL BE 2 INCHE WIDE PLASTIC COATED ALUMINUM AND SHALL BE CLEARLY MARKED, "CAUTION BURIED IRRIGATION" CONTINUOUSLY ALONG THE LENGTH OF THE RIBBON WITH MINIMUM 1-1/4 INCH LETTERS. THE RIBBON SHALL BE PURPLE IN COLOR.

ALL PIPE SHALL BE ASSEMBLED ACCORDING TO THE PIPE MANUFACTURER'S RECOMMENDATIONS. PIPE INSTALLATION DONE WITHIN AND OUTSIDE OF THE STREET RIGHTS-OF-WAY SHALL BE IN ACCORDANCE WITH GWID'S STANDARD SPECIFICATIONS FOR PIPE INSTALLATION.

ALL FLANGED CONNECTIONS ON HOPE PIPE SHALL BE MADE BY FOLLOWING THE PROPER BOLT AND BOLT SEQUENCE PROCEDURE APPLYING THE TORQUE PROGRESSION PROCEDURE, AND APPLYING THE MANDATORY 4-HOUR RE-TORQUING PROCEDURE DESCRIBED IN PLASTICS PIPE INSTITUTE'S TECHNICAL NOTE TN-38.

CONTRACTOR IS RESPONSIBLE FOR PRESSURE TESTING ALL NEW OR MODIFIED PORTIONS OF DISTRICT INFRASTRUCTURE PRESSURE TESTING FOR HOPE PIPE SHALL BE PER ASTM F2164. PRESSURE TESTING FOR ALL OTHER IRRIGATION PIPING MATERIALS AND APPURTENANCES SHALL BE IN ACCORDANCE WITH THE HYDROSTATIC PRESSURE TEST REQUIREMENTS FOI WATER MAINS DESCRIBED IN THE LATEST VERSION OF THE WSDOT SS.

SERVICE RISERS FOR LID INSTALLATIONS SHALL MEET ALL OF THE MATERIAL REQUIREMENTS AS SPECIFIED IN THE GWID STANDARD SPECIFICATIONS.

CONSTRUCTION NOTES

PAGE 2 OF 3

BALL VALVES SHALL NOT BE ALLOWED ON THE CUSTOMER SIDE OF THE METER WITHIN 50' OF THE METER VAULT

STRUCTURE SHALL BE CORE-DRILLED WITH A KOR-N-SEAL BOOT OR APPROVED EQUAL

GWID-D-CONNEX.DWG REVISED: 12/07/2021 DWG NO.GWIDG

GREATER WENATCHEE

IRRIGATION DISTRICT

GREATER WENATCHEE

IRRIGATION DISTRICT

ALL GATE VALVES 3 INCHES AND SMALLER SHALL BE BRONZE OR CAST IRON GATE VALVES. ALL VALVES WILL HAVE A RESILIENT SEAT OR SINGLE BRONZE WEDGE GATE. THE OPERATOR WILL BE A 2 INCH CAST IRON SQUARE NUT FOR 2 AND 3 INCH VALVES AND A CAST IRON HANDLE FOR SMALLER VALVES. THE WORKING PRESSURE WILL BE 150 PSI OR GREATER. THREE INCH VALVES SHALL HAVE FLANGED CONNECTIONS WHILE 2 INCH AND SMALLER VALVES SHALL HAVE THREADED CONNECTIONS TO FLANGES. ALL VALVES MUST MEET OR EXCEED CURRENT AWWA STANDARDS. GATE VALVES 4 INCHES AND LARGER SHALL BE RESILIENT SEATED GATES MEETING AWWA C509 OR C515. BUTTERFLY VALVES SHALL HAVE A GEAR OPERATOR THAT REQUIRES A MINIMUM OF 15 TURNS TO REACH FULL CLOSURE, VALVES SHALL MEET AWWA C504.

VALVE BOXES SHALL BE CAST IRON. TWO-PIECE SLIP TYPE STANDARD DESIGN WITH BASE CORRESPONDING TO THE TOTAL SIZE OF THE VALVE, CAST IRON LID SHALL BE MARKED "IRRIGATION", "IRR", "I", "GWID" OR BLANK A CONCRETE COLLAR AND

VALVE IDENTIFIER TAG SHALL BE INSTALLED ON ALL VALVES. ISOLATION VALVES SHALL BE INSTALLED WITHIN THE SYSTEM TO ALLOW THE PROPERTY OWNERS TO ISOLATE A SECTION OF THE SYSTEM SHOULD A BREAK OR OTHER SITUATION ARISE. THIS WILL ENSURE THE LEAST NUMBER OF LOTS ARE WITHOUT

WATER, NUMBER AND LOCATIONS OF VALVES SHALL BE APPROVED BY THE DISTRICT. ALL TRACER WIRES SHALL BE SURFACED IN AIRVACS, VALVE BOXES, OR OTHER DISTRICT INFRASTRUCTURE. CONTRACTOR

SHALL PROVIDE CONTINUITY TEST OF ALL TRACER WIRING PRIOR TO ACCEPTANCE OF IMPROVEMENTS. CONTRACTOR SHALL BE RESPONSIBLE FOR DISPOSAL OF ALL EXCAVATED PAVEMENT AND OTHER UNSUITABLE MATERIALS

RESTORATION OF DAMAGED ROAD SURFACING SHALL BE IN ACCORDANCE WITH THE LOCAL MUNICIPALITY'S REQUIREMENTS ALL OTHER AREAS SHALL BE RESTORED TO ORIGINAL CONDITION OR AS DIRECTED BY THE DISTRICT. THIS INCLUDES SHOULDERS, LANDSCAPING, WALLS, FENCES AND OTHER IMPROVEMENTS.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL AND DISPOSAL OF PAVEMENT DAMAGED OUTSIDE OF LIMITS.

THE CONTRACTOR SHALL PERFORM PAVING ASSOCIATED WITH ROAD CROSSINGS WITHIN 10 CALENDAR DAYS OF INITIAL ROAD DISTURBANCE. THE CONTRACTOR SHALL USE CRUSHED ROCK FOR TEMPORARY TRENCH RESTORATION. THE CONTRACTOR SHALL MAINTAIN CRUSHED ROCK IN TRENCH REPAIR LOCATIONS UP TO THE TIME OF PAVING TO PREVENT DAMAGE TO EXISTING PAVEMENT RESULTING FROM VEHICLE TRAFFIC. THE CONTRACTOR SHALL CLEAN EXISTING PAVEMENT PERFORM EXTRA SAW CUTS NECESSARY TO CREATE CLEAN PAVEMENT CUTS. REMOVE DAMAGED PAVEMENT. REGRADE. AND COMPACT ALL CRUSHED ROCK IN PREPARATION FOR PAVING.

ALL CONSTRUCTION PLANS AND ASBUILT DRAWINGS DEPICTING PROPOSED GWID INFRASTRUCTURE SHALL PROVIDE LOCATION CALLOUTS FOR ABOVE-GRADE OR AT-GRADE IRRIGATION FEATURES USING THE FOLLOWING CONVENTIONS

CASINGS SHALL BE SUPPORTED WITH RUNNERS SPACED NO FARTHER THAN 6 FEET APART. RUNNERS SHALL BE MANUFACTURED

REQUIRED. CASING ENDS SHALL BE CAPPED WITH MANUFACTURED CASING END SEALS.

IRRIGATION SYSTEM STANDARD DETAIL

RRIGATION CASING

E: GWID-D-CASING.DWG REVISED: 12/07/2021 DWG NO.GWIDOR

PRODUCTS (PSI, CALPICO, OR APPROVED EQUAL). PIPE LINE AND GRADE SHALL BE MAINTAINED THROUGH THE CASING. RESTRAIN PIPE AS

GREATER WENATCHEE

IRRIGATION DISTRICT

THE CALLOUT SHALL IDENTIFY THE FEATURE TYPE I.E. METER DRAIN, AIR-VAC, ETC. THE LOCATION OF THE FEATURE SHALL BE REFERENCED VIA PROJECT STATIONING AND OFFSETS FROM THE CONNECTION POINT AT THE MAINLINE. X: WILL IDENTIFY THE PARALLEL DISTANCE TO THE FEATURE FROM THE MAINLINE.

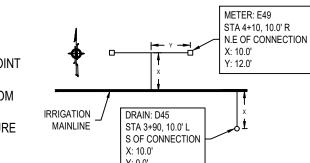
Y: WILL IDENTIFY THE PERPENDICULAR DISTANCE OF THE FEATURE FROM THE CONNECTION LOCATION.

IRRIGATION SYSTEM STANDARD DETAIL

CONSTRUCTION NOTES

PAGE 3 OF 3

: GWID-D-CNOTE3.DWG REVISED: 12/07/2021 DWG NO. GWID04



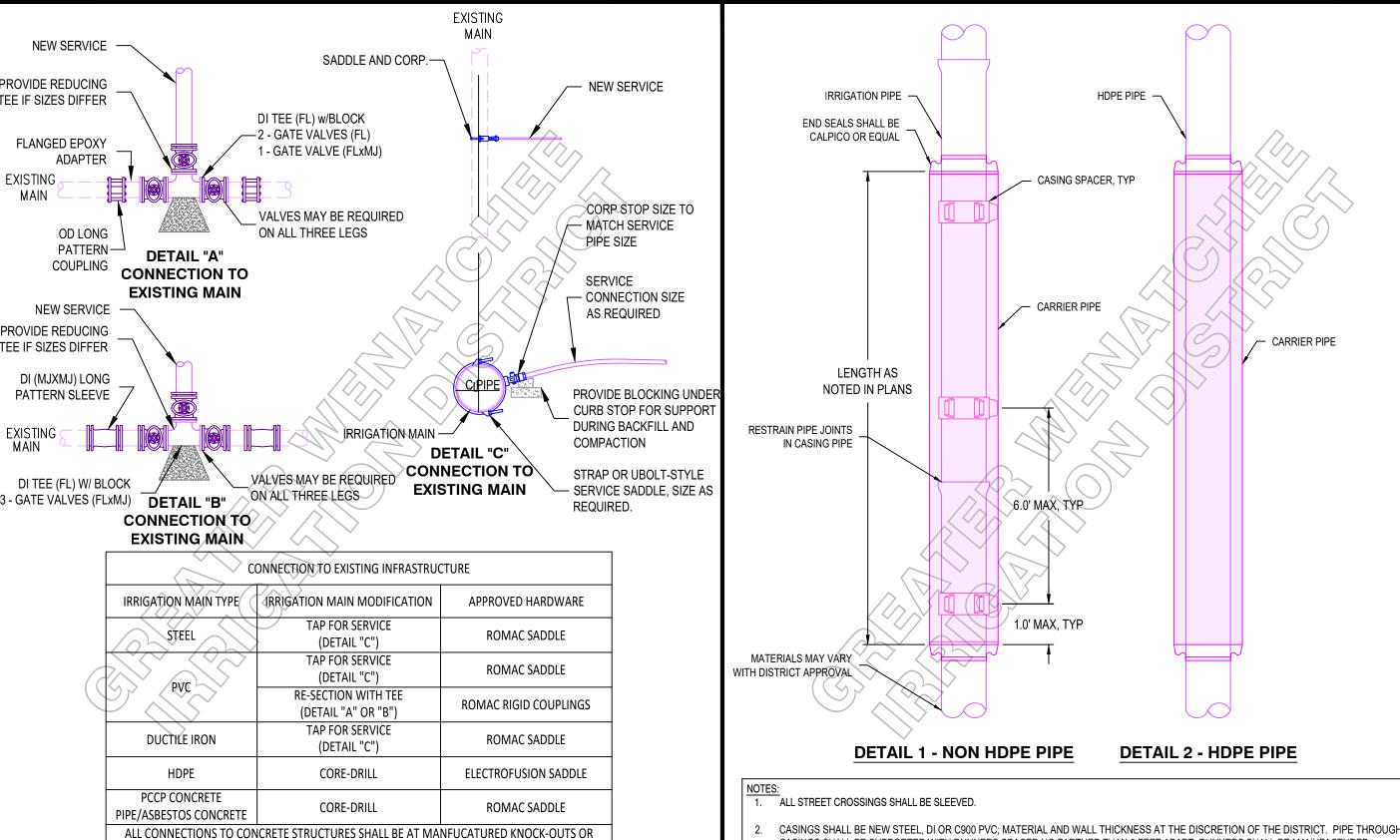
GREATER WENATCHEE IRRIGATION DISTRICT

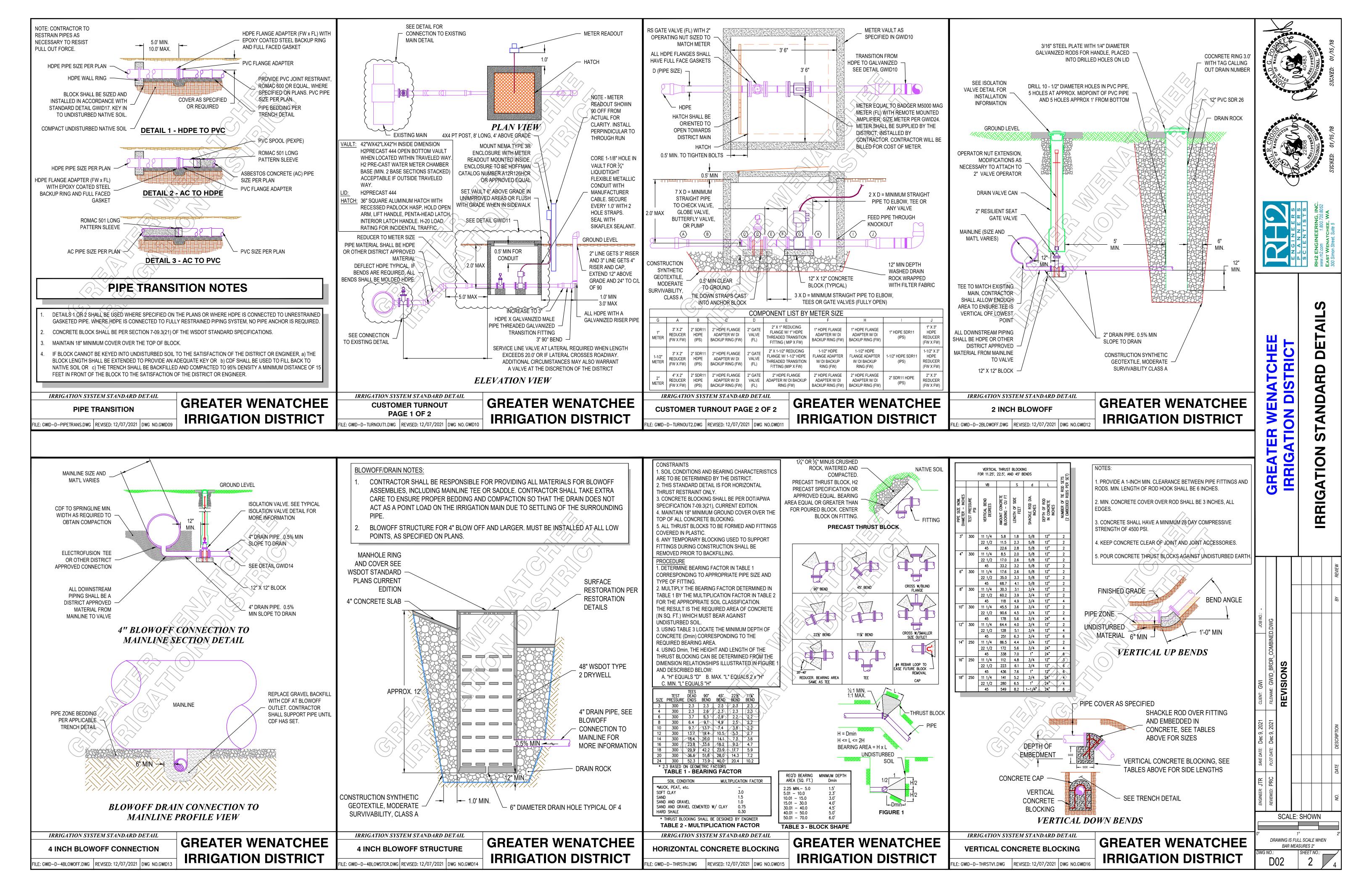
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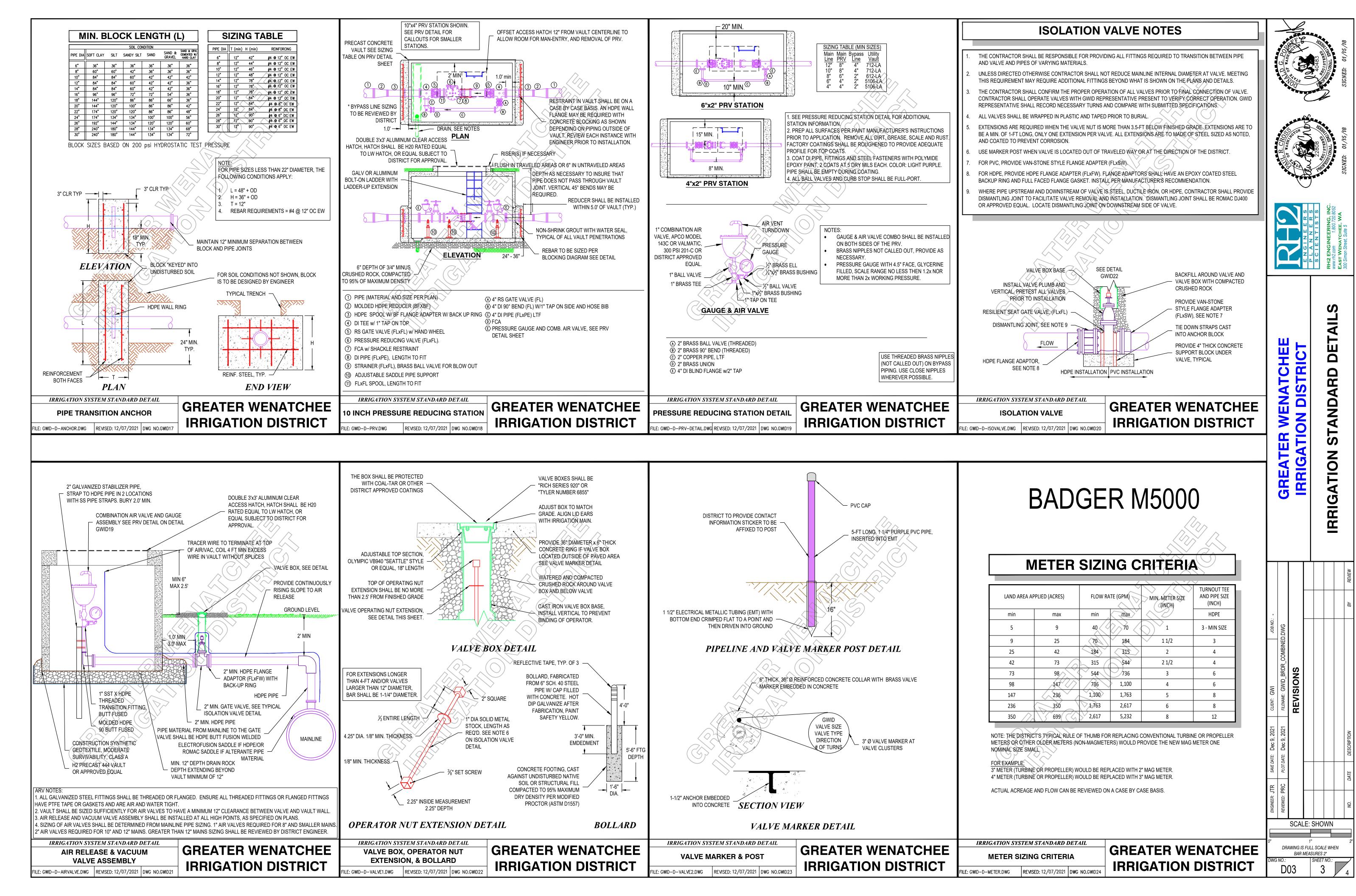
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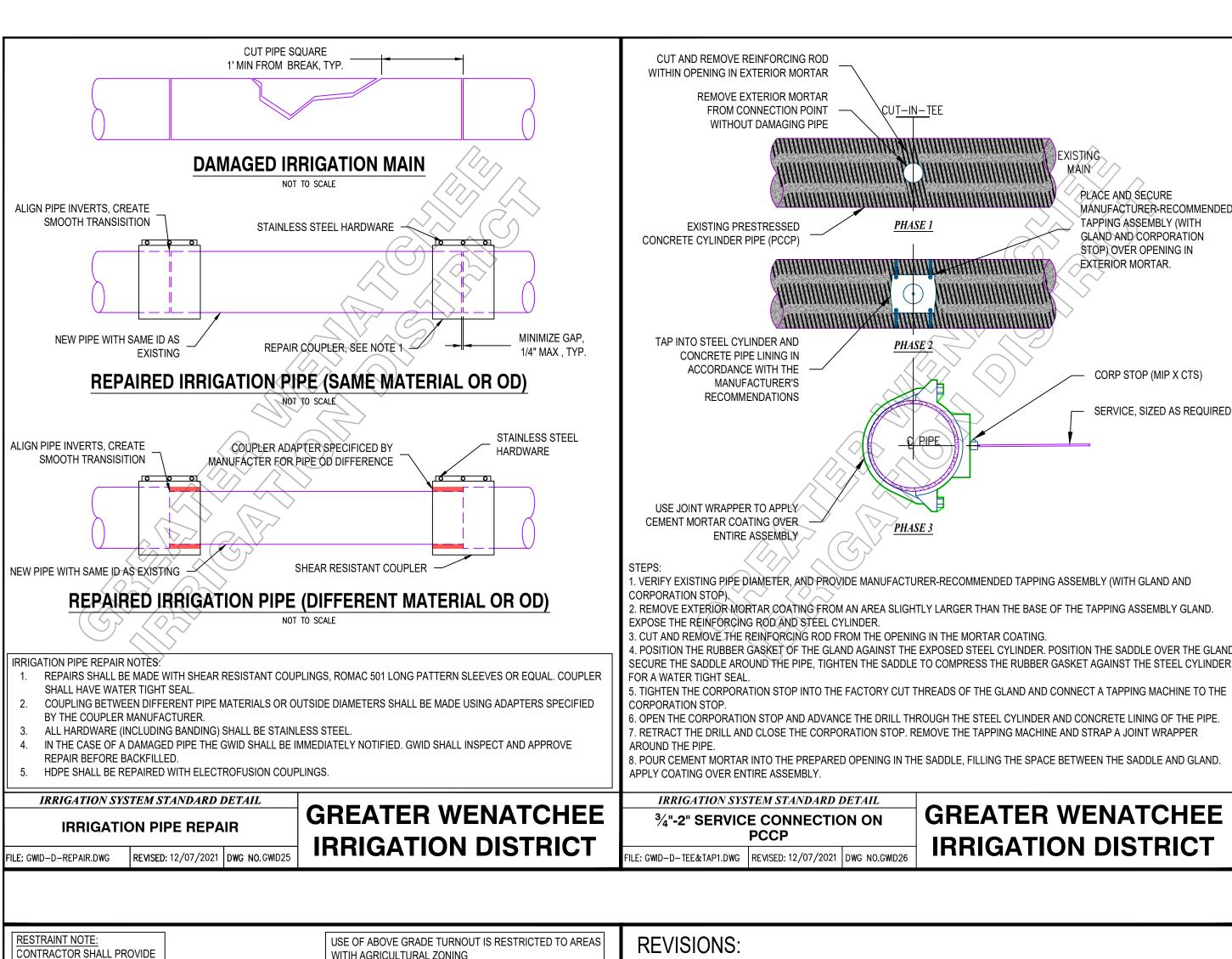
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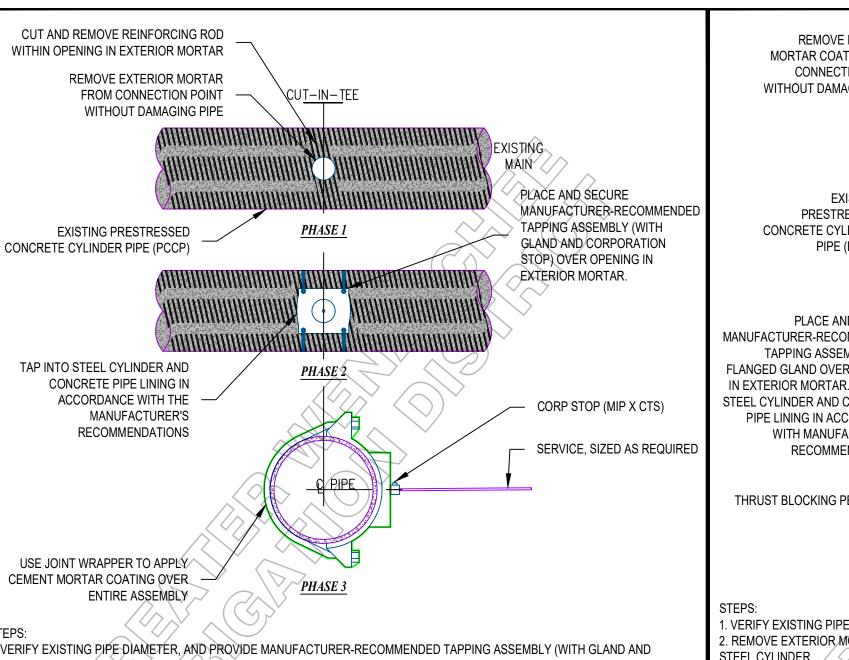
DRAWING IS FULL SCALE WHEN BAR MEASURES 2"











REMOVE EXTERIOR **CUT AND REMOVE** MORTAR COATING FROM REINFORCING ROD WITHI CONNECTION POINT OPENING IN EXTERIOR WITHOUT DAMAGING PIPE CU<u>T-IN-</u>TEE MORTAR **EXISTING** PHASE 1 PRESTRESSED CONCRETE CYLINDER PIPE (PCCP) RESILIENT SEAT TAPPING GATE VALVE, OPERATION PLACE AND SECURE MANUFACTURER-RECOMMENDED SHALL BE DONE BY COMPANY PHASE 2 TAPPING ASSEMBLY WITH PERSONNEL ONLY, FLANGED GLAND OVER OPENING CONTRACTOR SHALL NOT IN EXTERIOR MORTAR. TAP INTO OPERATE VALVE STEEL CYLINDER AND CONCRETE PIPE LINING IN ACCORDANCE SERVICE SIZE AS REQUIRED WITH MANUFACTURER'S RECOMMENDATIONS THRUST BLOCKING PER DETAIL APPLY A PROTECTIVE COATING OF CEMENT MORTAR OVER ENTIRE ASSEMBLY 1. VERIFY EXISTING PIPE DIAMETER: AND PROVIDE MANUFACTURER-RECOMMENDED TAPPING ASSEMBLY (WITH GLAND)

2. REMOVE EXTERIOR MORTAR COATING FROM AN AREA WHERE THE TAP IS TO BE MADE. EXPOSE THE REINFORCING ROD AND

AGAINST THE CYLINDER FOR A PERMANENT, WATERTIGHT SEAL

CONNECT A STANDARD TAPPING VALVE TO THE GLAND FLANGE WITH THE INNER CIRCLE OF BOLTS.

B. CONNECT THE TAPPING MACHINE TO THE TAPPING VALVE, OPEN THE VALVE AND AIR TEST THE ENTIRE ASSEMBLY TO ASSURE

WATERTIGHTNESS. D. DISCONNECT THE TAPPING MACHINE, OPEN THE VALVE SLIGHTLY TO FLUSH SMALL CUTTINGS. POUR CEMENT MORTAR INTO

REPARED OPENINGS IN THE SADDLE, FILLING THE SPACE BETWEEN SADDLE AND GLAND. APPLY A PROTECTIVE COATING OF

IRRIGATION SYSTEM STANDARD DETAIL **ABANDONMENT OF TERMINATED FACILITIES** REVISED: 12/07/2021 DWG NO.GWID28

GREATER WENATCHEE IRRIGATION DISTRICT

'. BRING THE POWER-OPREATED TAPPING MACHINE INTO POSITION.

CEMENT MORTAR OVER THE ENTIRE ASSEMBLY

IRRIGATION SYSTEM STANDARD DETAIL **GREATER WENATCHEE 4" OR LARGER CONNECTION ON IRRIGATION DISTRICT** : GWID-D-TEE&TAP2.DWG | REVISED: 12/07/2021 | DWG NO.GWID2

ABANDONMENT AND TERMINATION NOTES ISTRICT SHALL BE SOLE DETERMINER OF APPROPRIATE ABANDONMENT PROCEDURES AND METHODS

STRICT. THE DISTRICT OWNS ALL EXISTING MATERIALS AND HAS THE RIGHT TO SALVAGE FOR ANY

FOLLOWING METHODS ARE APPROVED ABANDONMENT PROCEDURES FOR TERMINATED FACILITIES.

EXISTING IRRIGATION MAINS, SERVICES, CONNECTIONS, ETC. SHALL BE TERMINATED AT THE FACILITY LOCATION AND AT THE MAINLINE. THE LATERAL SHALL NOT BE LEFT CONNECTED TO THE MAINLINE.

AN ALTERNATIVE METHOD OF ABANDONMENT IS ACCEPTABLE IF, AT THE DISCRETION OF THE

DISTRICT, THE VALVE CANNOT BE REMOVED. PLUG AND CLOSE THE VALVE, THEN REMOVE THE

CUT AND DRAIN THE ABANDONED IRRIGATION MAIN WHERE EXPOSED DURING CONSTRUCTION. REMOVE MAINS IN THE WAY OF NEW CONSTRUCTION. SAW CUT AND REMOVE SHORT SECTIONS OF

PIPE. MAINS SHALL NOT BE FORCIBLY REMOVED WITH HEAVY EQUIPMENT DUE TO POTENTIAL

MAINS THAT WILL BE TERMINATED BUT NOT ENCOUNTERED DURING NEW TRENCHING MAY BE LEFT

PLUG ENDS OF ABANDONED MAINS EXPOSED DURING CONSTRUCTION WITH GROUT PLUG, BLIND

FLANGE, OR CAP AS DIRECTED BY THE DISTRICT DEPENDING ON THE TYPE OF PIPE AND SOIL

REMOVE ALL VAULTS, SETTERS AND MISCELLANEOUS FITTINGS, BACKFILL WITH CRUSHED ROCK

AND COMPACT. NATIVE SOILS MAY BE USED FOR BACKFILL ONLY IF APPROVED BY THE DISTRICT CUT SERVICE AT MAIN AND REMOVE STUB FROM CORP STOP. CLOSE AND PLUG CORP STOP.

AT THE DISCRETION OF THE DISTRICT, THE SERVICE LINE MAY REMAIN IN PLACE, BUT MUST BE

REMOVE VALVES AND VALVE BOXES. PLUG OR BLIND FLANGE THE IRRIGATION MAIN

IN PLACE, BUT ALL VALVÉS MUST BE ABANDONED AS DESCRIBED UNDER "VALVES".

REMOVE ENTIRE SERVICE LINE BACK TO IRRIGATION MAIN (EXCAVATE OR PULL).

TERMINATED AT THE MAINLINE AS DESCRIBED IN ITEM 2.

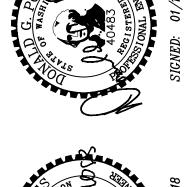
DAMAGE TO SURROUNDING UTILITIES.

RRIGATION SERVICES AND AIR VALVE ASSEMBLIES

CONDITIONS.

DISPOSED OF BY THE CONTRACTOR. SHOULD THE CONTRACTOR UNNECESSARILY DAMAGE ANY EXISTING

UNCTIONAL EQUIPMENT, SAID EQUIPMENT SHALL BE REPLACED BY THE CONTRACTOR AT THEIR COST. THE







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SCALE: SHOWN

DRAWING IS FULL SCALE WHEN

BAR MEASURES 2"



IRRIGATION SYSTEM STANDARD DETAIL

GWID01 - REVISED TABLE OF CONTENTS AND DWG. NUMBERS FOR DETAILS. ADDED "ABOVE GRADE TURNOUT" AND "ABANDONMENT OF TERMINATED FACILITIES" DETAILS TO TABLE OF CONTENTS. REMOVED "ROADSIDE RESTORATION" DETAIL FROM TABLE OF CONTENTS. UPDATED LIST OF ABBREVIATIONS ON COVER PAGE. (JRS)

<u>GWID02</u> - ORGANIZED WRITTEN COMMENTS. GRAMMATICAL REVISION TO NOTE 4. (JRS)

GWID03 - ORGANIZED WRITTEN COMMENTS. REVISED NOTE 15 TO CLARIFY WHEN STANDARD 1S REQUIRED. REMOVED NOTE 16 FROM THIS DETAIL AND MOVED IT TO CASING DETAIL. ADDED ADDITIONAL REQUIREMENTS TO NOTE 17 FOR HDPE WELDER TRAINING AND DATALOGGER REPORTS. ADDED NOTE 22 REGARDING REQUIREMENTS FOR FLANGED HDPE CONNECTIONS. ADDED NOTE 23 REGARDING PRESSURE TESTING OF NEW AND MODIFIED DISTRICT INFRASTRUCTURE, ADDED NOTE 25 REGARDING BALL VALVE PLACEMENT ON CUSTOMER SIDE OF METERS. SHIFTED REMAINING NOTES TO PAGE 3 OF

CONSTRUCTION NOTES. GWID04 - REVISED NOTE 26 TO SPECIFY 2" AND SMALLER CONNECTIONS SHALL BE THREADED TO FLANGES. ADDED DETAIL CONSTRUCTION NOTES PAGE 3 OF 3". (JKK)

GWID05 - ADDED NOTE ABOUT COMPACTION WITHIN 1.0 FT ABOVE THE PIPE. (JRS)

GWID06 - REVISED DETAIL LAYOUT TO ACCOMMODATE ADDITIONAL NOTES AND CALLOUTS. REVISED UNTRAVELED WAY DETAIL CALLOUTS TO REFERENCE LANDSCAPED/CULTIVATED AREAS INSTEAD OF GRASS, ADDED CALLOUTS SPECIFYING RESTORED AREA SHALL MATCH EXISTING GRADE, CONTRACTOR SHALL RETAIN 24" OF TOPSOIL INCL. NO ROCKS WITHIN TOP 6", AND ADDED ROADSIDE DITCH NOTES THAT WERE PULLED FROM ORIGINAL (ROADSIDE DITCH RESTORATION DETAIL. (JRS)

GWID06 (old) - REMOVED "ROADSIDE RESTORATION" DETAIL FROM STANDARD DETAILS. MOVED RELEVANT INFORMATION TO "TRENCH PATCH RESTORATION" DETAIL, GWID06. (JRS)

GWID07 - REMOVED REDUNDANT NOTE FROM TEE ON DETAIL B: REVISED TABLE TO INCLUDE REFERENCES TO DETAILS AND MODIFIED TABLE FORMAT. (JRS)

GWID08 - REVISED DETAIL LAYOUT. ADDED NEW NOTE TO DETAIL FROM CONSTRUCTION NOTES PAGE (JRS) GWID09 - REMOVED REDUNDANT CALLOUT FROM DETAIL 1 SHOWING DEPTH OF COVER FOR CONCRETE BLOCK. REVISED HDPE FLANGE ADAPTER CALLOUTS IN DETAILS 1 AND 2. REMOVED NOTES 4, 5, AND 6 SINCE REDUNDANT TO INFO LOCATED IN OTHER DETAILS. (JRS)

GWID10 - SPECIFIED HATCH SHALL BE ALUMINUM. ADDED CALLOUT FOR METAL BOX ON METER READOUT. REVISED CALLOUT ON ELEVATION VIEW TO REFER TO GWID11 INSTEAD OF CUSTOMER TURNOUT DETAIL 2. REVISED DIMENSION FOR DEPTH OF PIPING WITHIN VAULT FROM 2.0' MIN TO 2.0' MAX. REVISED CALLOUT FOR SERVICE LINE VALVE AT MAIN IF LENGTH EXCEEDS GWID11 - MODIFIED METER CALLOUT TO SPECIFY THAT CONTRACTOR PAYS FOR AND DISTRICT SUPPLIES METERS

RE-ARRANGED DETAIL LAYOUT. REVISED DETAIL TO SHOW VALVE STRAPPED TO BLOCK. REVISED DIMENSION FOR DEPTH OFPIPING WITHIN VAULT FROM 2.0' MIN TO 2.0', MAX. GRAMATICAL REVISION TO DIMENSIONS ON ELEVATION VIEW, REVISION TO BLOCK CALLOUT BENEATH VALVE AND METER TO SPECIFY BLOCK TO BE CONCRETE. ADDED TABLE FOR COMPONENT LIST. ADDED VISUAL LAYOUT OF PIRING ON DOWNSTREAM SIDE OF TURNOUT STRUCTURE AND NOTE REGARDING HDPE TO GALVANIZED TRANSITION. (JKK/JRS)

GWID13 - REVISED CALLOUT TO REFER TO GWID14 INSTEAD OF BLOWOFF STRUCTURE DETAIL. GRAMMATICAL REVISION TO ISOLATION VALVE CALLOUT. (JRS)

GWID18 - ADDED HOSE BIB TO ITEM B. CHANGED FORMATTING FOR NOTE AT TOP OF PAGE. SPECIFIED HATCH SHALL BE ALUMINUM. EXAGGERATED VISUAL FOR ROCK BENEATH PRV, MODIFIED NOTE DESCRIBING COMPACTION. (JRS) GWID19 - REVISED FORMATTING STYLE OF DETAIL CALLOUTS, DIMENSIONS, AND NOTES. (JRS)

GWID20 - REMOVED NOTE 6 AND MOVED TO GWID22. REVISED REFERENCES TO NOTES IN DETAIL CALLOUTS. REVISED

CALLOUT TO REFER TO GWID22 INSTEAD OF VALVE BOX DETAIL. REVISED DETAIL TO SHOW VALVE STRAPPED TO BLOCK. GWID21 - REVISED ABBREVIATION FOR STAINLESS STEEL FROM SS TO SST. REVISED REFERENCE TO PRV DETAIL FROM DWG.

NO. GWID 19 TO DETAIL GWID19. SPECIFIED HATCH SHALL BE ALUMINUM. (JRS) GWID22 - CHANGED DETAIL TITLE. ADDED BOLLARD DETAIL. ADDED NOTE FROM GWID20 SPECIFYING 1-1/4" BAR FOR EXTENSIONS LONGER THAN 4-FT OR VALVES LARGER THAN 12" (JRS)

• GWID23 - MODIFIED PVC CAP CALLOUT LEADER TO POINT TO CAP. (JRS)

REVISIONS REVISED: 12/07/2021 DWG NO.REV 1

GREATER WENATCHEE IRRIGATION DISTRICT

IRRIGATION SYSTEM STANDARD DETAIL **REVISIONS (CONT'D)**

GREATER WENATCHEE

IRRIGATION DISTRICT

GWID29 - ADDED "CUSTOMER ABOVE GRADE TURNOUT" DETAIL. (JRS)

"ABANDONMENT OF TERMINATED FACILITIES" AS GWID30. (JKK)

GWID28 - ADDED "ABANDONMENT OF TERMINATED FACILITIES" DETAIL. (JKK)

GWID10 - REPLACED "OR APPROVED EQUAL" WITH "VAULT WHEN LOCATED WITHIN TRAVELED WAY. H2 PRE-CAST WATER METER CHAMBER BASE (MIN. 2 BASE SECTIONS STACKED) ACCEPTABLE IF OUTSIDE TRAVELED WAY." (JG) GWID11 - REPLACED "H2 PRECAST 444 VAULT OR APPROVED EQUAL" WITH "METER VAULT AS SPECIFIED IN GWID10." (JG)

GWID24 - REMOVED 1-1/4 METER - ONLY 1 AND 1-1/2. REVISED THE ACREAGE RANGES AND UPDATED LINE SIZES. ADDED

HDPE. CHANGED MIN. SIZE OF TURNOUT TEE AND PIPE TO 3". ADDED ADDITIONAL METER NOTES.ADDED STANDARD DETAIL

NOTE ON FLOW TABLE ABOUT TURBINE/PROPELLER METERS BEING CONVERTER TO MAG METERS. ADDED DESIGNATION FO

GWID04 - ADDED CONSTRUCTION NOTE 34 ABOUT PROVIDING LOCATION CALLOUTS FOR ABOVE-GRADE OR AT-GRADE IRRIGATION FEATURES WHERE PROPOSED GWID INFRASTRUCTURE IS BEING DEPICTED. (JG)

WITH AGRICULTURAL ZONING RESTRAINT AT LANDOWNER CONNECTION BY AT LEAST ONE OF THE FOLLOWING METHODS: AIR VENT 1.0' MIN FROM PIPE PENETRATION (1) FULLY RESTRAINED THROUGH CONCRETE SLAB TO COMPRESSION COUPLER CONCRETE SLAB EDGE OF SLAB THRUST BLOCK ENCASEMENT OF RISER IN CONCRETE PAD, SAME AS DISTRICT SIDE OF METER 1.0' MIN. TYP — 1.0' MIN FROM VALVE TO EDGE OF SLAB AIR VENT FLxFL GALVANIZED AIR RELEASE - STEEL PIPE. LENGTH TO FIT PRESSURE RELIEF METER EQUAL TO BADGER M5000 MAG METER (FL). SIZE METER PER DETAIL GWID24. METER SHALL BE SUPPLIED BY THE DISTRICT, INSTALLED BY CONTRACTOR. 1/4" THICK STEEL BRACKET CONTRACTOR WILL BE BILLED FOR COST OF METER. ATTACHED TO FLANGE FOR DISTRICT GATE VALVE WITH ANTENNA MOUNTING HANDWHEEL WATERMAIN AV-150 AIR PRESSURE RELIEF VALVE. SIZE AND VENT, TYP. SIZE AS MODEL AS REQUIRED BY DISTRICT REQUIRED BY DISTRICT COMBINATION AIR RELEASE / VACUUM VALVE LANDOWNER GATE VALVE (THREADED) SIZE AS REQUIRED BY DISTRICT. SEE WITH HANDWHEEL DETAIL GWID19 AIR VENT, SAME AS DISCHARGE SIDE OF METER -PIPE SUPPORTS 6" DEEP CONCRETE PAD ¬ BOLLARD, TYP. OF 4. SEE RESTRAIN SEE DETAIL GWID22 NOTE FINISHED GRADE HDPE FLANGE ADAPTER WITH STAINLESS STEEL BACKING RING 2.0' MIN -

#4 REBAR 12" ON CENTER EACH GALVANIZED STEEL PIPE 6" COMPACTED CRUSHED ROCK $3 \times D = MINIMUM$ $2 \times D = MINIMUM$ STRAIGHT PIPE TO STRAIGHT PIPE TO **GATE VALVE** ANY VALVE LANDOWNER'S **ELEVATION VIEW**

IRRIGATION SYSTEM STANDARD DETAIL **GREATER WENATCHEE CUSTOMER ABOVE GRADE TURNOUT PAGE 1 OF 1** FILE: GWID-D-AGTURNOUT.DWG REVISED: 12/07/2021 DWG NO.GWID29

SEE CONNECTION

HDPE PIPE

HDPE FITTING

TO EXISTING DETAIL

IRRIGATION DISTRICT : GWID-D-REV.DWG

IRRIGATION SYSTEM STANDARD DETAIL

REVISED: 12/07/2021 DWG NO.REV 2 : GWID-D-REV.DWG

GREATER WENATCHEE IRRIGATION DISTRICT