

1. CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE MOST CURRENT VERSIONS OF THE FOLLOWING:
  - 1.1. EAST WENATCHEE WATER DISTRICT DEVELOPER EXTENSION AGREEMENT (when applicable).
  - 1.2. EAST WENATCHEE WATER DISTRICT STANDARD DETAILS. IF ANY DETAIL IS REVISED AFTER PLAN APPROVAL, THE DISTRICT WILL DETERMINE IF THE REVISION MUST BE INCORPORATED INTO THE WORK.
  - 1.3. EAST WENATCHEE WATER DISTRICT SERVICE POLICIES AND CONSTRUCTION STANDARDS.
  - 1.4. WA. STATE DEPT. OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD, BRIDGE AND MUNICIPAL CONSTRUCTION.
2. A PRECONSTRUCTION CONFERENCE IS REQUIRED PRIOR TO CONSTRUCTION AND 48 HOURS ADVANCE NOTIFICATION OF THE LOCAL MUNICIPALITY, THE EAST WENATCHEE WATER DISTRICT, AND ALL AFFECTED UTILITY COMPANIES PRIOR TO THE ACTUAL START OF WORK.
3. THE CONTRACTOR SHALL COMPLY WITH THE PROVISIONS OF THE RIGHT-OF-WAY/STREET CONSTRUCTION PERMIT AS ISSUED BY THE DOUGLAS COUNTY DEPT. OF TRANSPORTATION AND LAND SERVICES, CITY OF EAST WENATCHEE, AND/OR WA. STATE DOT FRANCHISE FOR THIS PROJECT. TRAFFIC CONTROL SHALL FOLLOW THE ROAD AGENCY'S CODES AND STANDARDS.
4. LOCATIONS OF EXISTING UTILITIES SHOWN ON THE PLANS ARE ESTIMATED UNLESS STATED OTHERWISE. THE CONTRACTOR SHALL VERIFY, LOCATE AND PROTECT ALL UTILITIES WITHIN THE PROJECT AREA. THE CONTRACTOR SHALL REPLACE OR REPAIR ANY UTILITIES DAMAGED DURING CONSTRUCTION. SHOW ALL ENCOUNTERED UTILITIES ON THE AS-BUILTS.
5. LOCATION AND EXTENT OF IRRIGATION PIPELINES WITHIN THE PROJECT LIMITS ARE UNKNOWN. CONTRACTOR SHALL CONTACT PROPERTY OWNERS ADJACENT TO THE PROJECT FOR LOCATING PRIVATE IRRIGATION SYSTEMS. CONTRACTOR IS RESPONSIBLE FOR LOCATING, REPLACING, OR REPAIRING IRRIGATION SYSTEMS DAMAGED DURING CONSTRUCTION. REPAIR IRRIGATION SYSTEMS WITH PRODUCTS OF NO LESSER QUALITY THAN SCH 40 PVC. SHOW IRRIGATION ON THE AS-BUILTS.
6. ALL EXCAVATION SHALL BE BACKFILLED AND COMPACTED IN ACCORDANCE WITH THE STANDARD DETAILS AND SECTIONS 7-9.3(10) AND 7-9.3(11) OF THE STANDARD SPECIFICATIONS. COMPACTION TESTING IS REQUIRED DURING BACKFILLING OPERATIONS AT THE DISCRETION OF THE WATER DISTRICT. IF TRENCH BACKFILL DOES NOT MEET COMPACTION REQUIREMENTS, CONTRACTOR SHALL EXCAVATE, RECOMPACT, AND RETEST MATERIAL AT CONTRACTOR'S EXPENSE.
7. 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.
8. ALL WATER SERVICES, FIRE HYDRANTS, AND THRUST BLOCKING SHALL BE INSPECTED BY THE DISTRICT BEFORE BURY.
9. PROVIDE A SANITARY GAP BETWEEN THE EXISTING AND NEW WATER SYSTEMS. CONNECTION TO THE EXISTING WATER SYSTEM SHALL BE PERFORMED BY THE CONTRACTOR ONLY AFTER COMPLETING AN ACCEPTABLE PRESSURE TEST AND THE PIPELINE IS DISINFECTED, FLUSHED, AND RECEIPT OF ACCEPTABLE WATER QUALITY TEST RESULTS FROM THE HEALTH DISTRICT OR LAB. SEE DETAIL W-09.
10. PERFORM PRESSURE TEST AT 250psi. THE DISTRICT INSPECTOR HAS DISCRETION TO MODIFY THE TESTING REQUIREMENTS.
  - 10.1. PRESSURE WASHERS ARE NOT ALLOWED FOR PRESSURE TESTING. DISTRICT HAS THE RIGHT TO REJECT ANY PUMP SYSTEM THAT IN THE DISTRICT'S SOLE OPINION MAY BE UNSAFE OR UNSATISFACTORY.
  - 10.2. PRESSURE TEST INCLUDES MAINLINE, HYDRANTS, SERVICE LINES, SETTERS, AND CUSTOMER SERVICE SIDE TAILPIPE.
  - 10.3. TEST MAINLINE IN SECTIONS OF NO MORE THAN 1,500 FEET. PRESSURE DROP SHALL NOT EXCEED 5 psi IN 120 MINUTES.
  - 10.4. ASSEMBLE AND TEST VALVE CLUSTERS OUTSIDE OF THE TRENCH PRIOR TO INSTALLATION.
  - 10.5. TEST GAUGE RANGE SHALL NOT EXCEED 160% OF TEST PRESSURE (400 psi MAX FOR 250 psi TEST).
11. AN INFLATABLE PIPE PLUG SHALL BE USED ON EACH JOINT DURING INSTALLATION TO PROTECT AGAINST SOIL INTRUSION AND FLOODING OF THE PIPE. OPEN ENDS OF VALVES SHALL BE PLUGGED OR BAGGED UNTIL EXTENDED WITH PIPE.
12. CONTRACTOR SHALL POTHOLE A SUFFICIENT DISTANCE AHEAD OF PIPELAYING TO VERIFY DEPTH OF EXISTING WATER MAINS AND CROSSING UTILITIES AND TO ANTICIPATE ANY NECESSARY CHANGES IN FITTINGS OR ALIGNMENT.
13. AN AS-BUILT RECORD MUST BE SUBMITTED TO THE DISTRICT BEFORE WATER SERVICE WILL BE PROVIDED.
14. DEFLECTION AT PIPE AND FITTING JOINTS WILL BE ALLOWED UP TO 3.0" PER JOINT OR AS RECOMMENDED BY MANUFACTURER, WHICHEVER IS LESS. 3.0" IS 11" PER 18' PIPE STICK, WHICH IS 350' RADIUS.
15. CONTRACTOR SHALL ONLY DISPOSE OF WASTE MATERIAL AT SITES APPROVED BY DOUGLAS COUNTY TRANSPORTATION AND LAND SERVICES. STOCKPILE MATERIALS ONLY ON DISTRICT APPROVED SITES.
16. CONTRACTORS WORKING WITHIN RIGHT OF WAY OR ON EXISTING DISTRICT INFRASTRUCTURE SHALL BE LICENSED, BONDED, AND HAVE EXPERIENCE INSTALLING PUBLIC DOMESTIC WATER SYSTEMS. BE PREPARED TO PRESENT EXAMPLES OF 5 SUCH PROJECTS UPON REQUEST.
17. CONTRACTOR TO PROVIDE NO LESS THAN 48 HOURS NOR MORE THAN 72 HOURS NOTICE TO THE DISTRICT PRIOR TO ANY REQUESTED SHUTDOWN OR CUSTOMER OUTAGE. DISTRICT WILL PROVIDE NOTICE TO CUSTOMERS 24 HOURS IN ADVANCE OF OUTAGE. NO OUTAGES ARE ALLOWED ON MONDAYS OR FRIDAYS.

CONTINUED ON W-30 . . .



## East Wenatchee Water District

WATER SYSTEM STANDARD DETAIL

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## CONSTRUCTION NOTES

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18. CONTRACTOR SHALL MAINTAIN AND RETURN ANY TEMPORARY EQUIPMENT PROVIDED BY THE DISTRICT. CONTRACTOR SHALL REIMBURSE THE DISTRICT FOR ANY DAMAGE OR LOSS OF EQUIPMENT.
19. STAKE LOCATIONS OF WATERMAIN, BENDS, TEES, HYDRANTS, AND VAULTS PRIOR TO EXCAVATION. AT THE DISTRICT'S DISCRETION, THE CONTRACTOR MAY PROVIDE A GPS ROVER WITH LOCATIONS PRE-LOADED.
20. NO WORK THAT REQUIRES INSPECTION, OVERSIGHT, OR INPUT FROM THE DISTRICT, THE DISTRICT'S INSPECTOR OR ENGINEER WILL BE ALLOWED ON FRIDAYS, SATURDAYS, SUNDAYS. OR ON DISTRICT RECOGNIZED HOLIDAYS NOR THE PRECEDING DAY.

**MATERIALS REQUIREMENTS**

1. ALL PIPE, VALVES, AND FITTINGS MUST BE RATED FOR NO LESS THAN 175 PSI WORKING PRESSURE AND 250 PSI TEST PRESSURE UNLESS STATED OTHERWISE.
2. METAL PRODUCTS & METAL ACCESSORIES (e.g. MJ T-BOLTS KITS, GLANDS, ETC) SHALL BE OF DOMESTIC FABRICATION & CONSTRUCTION. THIS REQUIREMENT EXCLUDES: TEMPORARY MATERIALS NOT PART OF THE PERMANENT FACILITY, FLANGE BOLT KITS, VALVE BOXES, & CASING PIPES. THIS REQUIREMENT MAY BE SUPERCEDED BY CONTRACT REQUIREMENTS FOR STATE OR FEDERALLY FUNDED PROJECTS.
3. ALL PIPE 3" AND LARGER SHALL BE DUCTILE IRON WITH A WALL THICKNESS NO LESS THAN CLASS 50 EXCEPT WHERE TRENCH BACKFILL OR LOADING DICTATE A STRONGER PIPE. USE CLASS 52 FOR HYDRANT RUNS AND WHERE PRESSURE EXCEEDS 150 PSI.
4. HDPE SERVICE PIPE SHALL BE 250 psi RATED (DR9) CTS (Copper Tube Size). ONLY FORD "QUICK-JOINT", MUELLER "110 CONDUCTIVE COMPRESSION", OR EQUAL FITTINGS ALLOWED FOR HDPE OR COPPER PIPE CONNECTIONS, NO PACK JOINTS.
5. ONLY FORD, MCDONALD, & MUELLER PRODUCTS ARE APPROVED FOR SERVICE BRASS, UNLESS OTHERWISE NOTED IN THESE DETAILS.
6. **METER VAULT LID NOTE:** FOR ALL TAPER-TOP STYLE VAULTS FOR WATER SERVICES, AIR VALVES, PERMANENT BLOW-OFFS, AND OTHER PURPOSES, CONTRACTOR TO PURCHASE LID AND FRAME EQUAL TO EAST JORDAN IRONWORKS' EAST WENACHEE WATER DISTRICT SPECIFICATION, FRAME/LID 3620Z/3620C FOR NON-TRAFFIC AREAS, AND 3619Z/3619C FOR DRIVEWAYS AND TRAFFIC AREAS.
  - 6.1. ANCHOR FRAME TO VAULT USING NON-SHRINK GROUT. FRAME AND LID TO BE RATED FOR TRAFFIC LOADING IN TRAFFIC AREAS.
  - 6.2. WATER SERVICE VAULT LIDS TO INCLUDE ONE 2-3/16" DIAMETER HOLE WITH 4-1/4" DIAMETER x 9/16" DEEP RECESS FOR RADIO.
  - 6.3. FOR AIR VALVES AND BLOW-OFFS, DO NOT DRILL HOLE IN LIDS, NOR PROVIDE "METER" TEXT ON FRAME.
  - 6.4. LID SURFACE TO HAVE A STATIC COEFFICIENT OF FRICTION NO LESS THAN 0.60 AS DETERMINED BY ASTM C-1028.
7. FLANGE GASKETS: MINIMUM 1/8" THICK, AND RATED FOR EITHER THE TEST PRESSURE OR 150% OF WORKING PRESSURE, WHICHEVER IS GREATER. BOTH RING TYPE AND FULL FACE ARE ALLOWED. DO NOT USE FULL FACE GASKETS ON RAISED SEAT FLANGES. GASKETS MAY NOT BE REUSED ONCE ASSEMBLED.
8. FLANGE BOLTS ASTM A307 GRADE A OR B. ALL BOLTS, NUTS AND WASHERS TO BE ZINC PLATED STEEL OR COR-TEN MATERIALS.
9. BURIED VALVES 2" AND SMALLER TO BE CURB STOP OR CORP STOP PER DETAILS, OR STYLE AT THE DISCRETION OF THE DISTRICT.
  - 9.1. CORP STOP: MUELLER 300 BALL CORP (B-25028N), FORD FB1100-Q-NL, OR APPROVED EQUAL.
  - 9.2. CURB STOP: MUELLER 300 BALL CURB (B-25122N), FORD B41-Q-NL, OR APPROVED EQUAL.
10. 3" BURIED VALVES ONLY ALLOWED WITH DISTRICT APPROVAL. IF ALLOWED, THE DISTRICT WILL DETERMINE THE TYPE OF VALVE.
11. ALL CONCRETE VAULTS AND CHAMBERS MUST BE PRECAST. CAST-IN-PLACE ARE NOT ALLOWED.
12. TAPPING TEES: FUSION BONDED EPOXY LINED AND COATED STEEL WITH 1/4" MIN. WALL THICKNESS OUTLET BRANCH, OR STAINLESS STEEL WITH FULL PERIMETER CONTINUOUS INTERNAL RUBBER LINER. WORKING PRESSURE RATING OF 200 PSI, OR 50 PSI ABOVE SYSTEM PRESSURE, WHICHEVER IS HIGHER. 1/2" MIN. THREADED TEST PLUG IN BRANCH. 2-PIECE STYLE FOR 6" AND LARGER MAINS. ROMAC FTS420, SST-III, OR APPROVED EQUAL
13. BURIED MARKING TAPE SHALL BE NON-METALLIC WHEN A LOCATE WIRE IS PRESENT, OR METALLIC WHEN THERE IS NO LOCATE WIRE.



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