

ADDENDUM

Addendum No.: 1
Project Name: I-5 Interchange – Waterline Relocation at Evergreen Extension
Project No. 2012-023-12
Date: February 11, 2013
To: All Bidders

NOTE: This Addendum forms part of the Contract Documents and modifies the drawings and specifications under Bid No. 2013-05, as noted below. Bidders submitting an offer must sign this form, acknowledging receipt of addendum, and supply it with their proposal. Failure to do so will subject the Bidder to disqualification.

REVISIONS TO SPECIFICATIONS:

1. Delete the entire Special Provisions section (Pages 1-12) and replace with attached “Addendum #1” Special Provisions section (Pages 1-14).

REVISIONS TO PLANS:

1. Delete the entire bid proposal and replace with attached “Addendum #1” Bid Proposal.

REVISIONS TO DRAWINGS:

1. Delete all plan sheets (G-1, G-2, C-1, C-2, C-3, D-1, D-2, D-3, D-4, D-5) and replace with attached “Addendum #1” Plan Sheets (G-1, G-2, C-1, C-2, C-3, D-1, D-2, D-3, D-4).

I have received, read and incorporated changes, per this addendum, in my proposed bid:

Signature

Date

SPECIAL PROVISIONS

Bidders shall modify the Technical Specifications and General Specifications as follows:

1. ADD THE FOLLOWING PARAGRAPH TO ARTICLE B OF THE GENERAL CONDITIONS, SECTION E.8. (EXISTING STRUCTURES AND UTILITIES):

6. Underground Utilities: Utility locations shown on the plans are approximate only; exact locations shall be determined on the field by the Contractor. The contractor shall be responsible for determining the location of all public and private underground utilities. The City of Woodburn accepts not responsibility for the accuracy of locates provided by utility companies. The Contractor shall coordinate work with all utility companies as required to complete the project.

The Contractor shall pothole to determine the vertical and horizontal location(s) of existing utilities at all areas where potential conflicts arise between the existing utilities and the proposed waterline. Potholes shall be done a minimum of seven (7) days prior to the anticipated work to allow the Engineer sufficient time to make modifications or corrections. All costs associated with potholing, utility locations and coordination with utility companies are incidental to this project.

The Contractor shall comply with the Administrative Rules of the Oregon Department of Human Services, Health Division when existing sanitary sewer mainlines or laterals are encountered. Include all costs in the unit price of the bid item entitled “Furnish and install Class 52 Ductile Iron Pipe”.

7. **Contractor shall be aware that other utilities will be relocated by other contractors/Franchise Utility Providers in the same area of construction during the same timeframe as this project. Contractor shall coordinate work with other contractors/Franchise Utility Providers during the duration of the entire project. Work coordination is considered incidental to this project.**

2. DELETE SECTION C.7 (SURVEYING) OF ARTICLE –C THE ENGINEER IN THE GENERAL CONDITIONS AND REPLACE WITH THE FOLLOWING PARAGRAHP:

The Engineer will furnish, only benchmark(s) at locations in the field. Contractor shall employ those benchmarks to establish constructions stakes in conformance with the horizontal and vertical geometry indicated on the plans.

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**3. DELETE SECTION E.6 (STAKING OUT OF WORK) OF ARTICLE –E
PROGRESS OF THE WORK IN THE GENERAL CONDITIONS AND
REPLACE WITH THE FOLLOWING PARAGRAHPS:**

The Contractor will set the baseline for the construction of the waterline relocation. The Engineer will not be responsible for any elevation given other than those indicated herein. Contractor is responsible for establishing all construction staking based on the City's control points and in conformance with the horizontal and vertical geometry indicated on the plans.

- A. Contractor is responsible to employ qualified and experienced personnel to provide construction staking.
- B. Immediately notify the City of any construction staking deviations from the plans.
- C. Contractor is responsible for re-establishing construction staking as needed.

**4. REPLACE THE LAST SENTENCE OF ITEM 2 OF SECTION G.4
PAYMENT FOR WORK OF ARTICLE – G (BIDDING, AWARD,
PAYMENTS AND CLOSEOUT) OF THE GENERAL CONDITIONS WITH
THE FOLLOWING PARAGRAPHS:**

c. Furthermore, no payment will be made to the Contractor until he files with the Owner the signed Wage Certification Form certifying that he has paid the higher of the prevailing wages under the Oregon Prevailing Wages Law and the Federal Davis-Bacon Act.

d. No payment will be made to the Contractor until the Owner approves that all materials and manufacture goods use in the project complies with the "Buy American" requirements.

**5. ADD THE FOLLOWING PARAGRAPH TO ARTICLE – I (INSURANCE
AND TAXES) OF THE GENERAL CONDITIONS, SECTION I.1.2 (PUBLIC
LIABILITY AND PROPERTY DAMAGE):**

2B. The liability coverage required for performance of the agreement shall include the City of Woodburn its employees and officers and the Oregon Department of Transportation (O.D.O.T.) and its employees and officers, as additional insured but only with respect to the Contractor's activities to be performed under this agreement. Before this agreement is executed, the Contractor shall furnish to the Owner a certificate of insurance for the limits set out above, which is to be in force and applicable to the project. The insurance coverage shall not be amended, modified, or canceled insofar as the coverage contemplated herein is concerned without at least thirty days prior notice to the Owner.

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6. DELETE PART 2.1 B (PRODUCTS) OF SECTION 3300 (TEMPORARY TRAFFIC CONTROL) OF THE TECHNICAL SPECIFICATION AND REPLACE WITH THE FOLLOWING PART:

2.1 B If the occasion arises that the Contractor desires to change the traffic control plan from that original approved, he/she shall submit a plan outlining those changes to the Engineer 7-days in advance of construction activities.

7. DELETE PART 3.3 A (TRAFFIC CONTROL DEVICES) OF SECTION 3300 (TEMPORARY TRAFFIC CONTROL) OF THE TECHNICAL SPECIFICATIONS AND REPLACE WITH THE FOLLOWING PART:

3.3 A All work done under this contract shall conform to the FHWA's Manual on Uniform Traffic Control Devices, Oregon Supplements to the MUTCD by ODOT, and the Oregon Temporary Traffic Control Handbook, December 2011 (OTTCH). The contractor shall submit a traffic control plan at the pre-construction meeting for approval by the Oregon Department of Transportation (ODOT).

Maintenance of traffic and traffic control devices through the work area shall be the responsibility of the Contractor.

8. ADD THE FOLLOWING PARAGRAPH TO SECTION 5000 (WATER LINE INSTALLATION) OF THE TECHNICAL SPECIFICATIONS, PART 3.4 (Pipe Installation)

3.4 (B) Waterline Installation: All waterline pipe shall be Class 52 ductile iron, thin cement lined, push-on type joints in nominal 18' lengths, conforming to AWWA C151 (ANSI A21.51), AWWA C104 (ANSI A21.4), and AWWA C111 (ANSI A21.1), with working pressure of not less than 250 psi. The pipe shall be manufactured by U.S. Pipe, Pacific States Cast Iron Pipe or an "equal" approved by the City of Woodburn. Install all water line pipe, bedding zone material, pipe zone material, trench backfill, base aggregate material, and asphaltic concrete surfacing in accordance with the project plans and details.

Ductile iron mechanical-joint fittings, ductile iron push-on fittings, and ductile iron flange-joint fittings shall be rated for 250 psi working pressure. All fitting shall conform to AWWA C110 (ANSI A21.10) and/or AWWA C153 (ANSI A21.53) and AWWA C111 (ANSI A21.11), and shall have cement-mortar linings in accordance with AWWA C104 (ANSI A21.4).

All 12" valves and smaller shall be iron body gate valves, rated at 200 psi working pressure, cast iron wedge with sealing surfaces permanently bonded with resilient materials per ASTM D429, conforming to AWWA C509 for resilient-seated gate valves.

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Valves shall non-rising stems, O-ring packing, two-inch square operating nut, and left hand opening. Packing shall be labeled with manufacture's name and model number.

9. ADD THE FOLLOWING SECTIONS TO THE GENERAL CONDITIONS:

Damage to existing structures and landscaping due to contractor's negligence shall be repaired or replaced at the Contractor's expense. Structures include but are not limited to, building structures, pipes, vaults, fences, sidewalks, driveways, landscape areas, retaining walls, edge of pavement, grass fields, roads, etc. The restoration or replacement work shall be done to the satisfaction of the City of Woodburn, ODOT or property owner as applicable.

Work within the Right of Way:

During construction work all of the contractor's employees, equipment, and materials shall be confined to the limits of the existing right-of-way. It is the responsibility of the Contractor to obtain any right of entry agreement for storage of materials or equipment on private property.

Permits:

The City has acquired the ODOT Right-of-Way Permit for this project. The Contractor is responsible for complying with **ALL** requirements stipulated in the ODOT Right-of-Way Permit No. 03M42495. ODOT right-of-way permit No. 03M42495 is part of the contract documents and is located after the Special Provisions.

10. DELETE APPLICABLE "MEASUREMENT AND PAYMENT" SECTIONS IN THE TECHNICAL SPECIFICATIONS AND REPLACE WITH THE FOLLOWING:

- A. Mobilization: Measurement for this bid item will be on a "percent complete" basis. Payment of this bid item will be made on the "lump sum" price amount listed in the Bid Proposal Form and will be payment in full for all costs associated with mobilization/demobilization per local, state and federal requirements, as applicable.
- B. Temporary Protection and Direction of Traffic: Measurement for this bid item will be on a "percent complete" basis. Payment of this bid item will be made on the "lump sum" price amount listed in the Bid Proposal Form and will be payment in full for all costs associated with traffic control per local, county, state and federal requirements, as applicable.

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- C. Erosion and Sediment Control: Measurement for this bid item will be on a “percent complete” basis. Payment of this bid item will be made on the “lump sum” price amount listed in the Bid Proposal Form and will be payment in full for all costs associated with erosion control per local, county, state and federal requirements, as applicable.
- D. 10” Hot Tap into a 10” Pipe: Measurement for this bid item will be on the “each” basis. Payment of this bid item will be made based on the “each” price amount listed in the Bid Proposal Form and will be payment in full for the placement of all materials, including, but not limited to, valves, valve box, hot tap apparatus, hot tap, thrust blocks and concrete blocks as specified in the project “Hot Tap Detail” plans. Payment for this bid item also includes trench excavation, removal and disposal of all concrete surfacing as specified in the project plans, saw-cutting, temporary surface patch, trench backfill, dewatering, base aggregate material and hauling & dumping.

The list of approved contractors to do hot taps in the City of Woodburn are:

- a. “AA Drilling” (503-284-3701)
 - b. “United Pipe and Supply” (503-788-8813)
- E. Furnish and Install 10” 45° D.I. Bends: Measurement for this bid item will be on the “each” basis. Payment of this bid item will be made based on the “each” price amount listed in the Bid Proposal Form and will be payment in full for all 10” 45° D.I. bends installed complete and in-place, two restraints per bend, base rock, saw-cutting, submittals, materials, labor, tools, equipment, appurtenances and incidentals required to complete the work as specified. Include field-locks gaskets for all push-on pipe joints less than 40 feet from the bend.
- F. Furnish and Install 8” 45° D.I. Bends: Measurement for this bid item will be on the “each” basis. Payment of this bid item will be made based on the “each” price amount listed in the Bid Proposal Form and will be payment in full for all 8” 45° D.I. bends installed complete and in-place, two restraints per bend, base rock, saw-cutting, submittals, materials, labor, tools, equipment, appurtenances and incidentals required to complete the work as specified. Include field-locks gaskets for all push-on pipe joints less than 40 feet from the bend.
- G. Furnish and Install 8” 22-1/2° D.I. Bends: Measurement for this bid item will be on the “each” basis. Payment of this bid item will be made based on the “each” price amount listed in the Bid Proposal Form and will be payment in full for all 8” 22-1/2° D.I. bends installed complete and in-place, two restraints per bend, base rock, saw-cutting, submittals, materials, labor, tools, equipment, appurtenances and incidentals required to complete the work as specified. Include field-locks gaskets for all push-on pipe joints less than 40 feet from the bend.

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- H. Furnish and Install 8” 11-1/4° D.I. Bends: Measurement for this bid item will be on the “each” basis. Payment of this bid item will be made based on the “each” price amount listed in the Bid Proposal Form and will be payment in full for all 8” 11-1/4° D.I bends installed complete and in-place, two restraints per bend, base rock, saw-cutting, submittals, materials, labor, tools, equipment, appurtenances and incidentals required to complete the work as specified. Include field-locks gaskets for all push-on pipe joints less than 40 feet from the bend.
- I. Furnish and Install 10”x6” FLGxMJ D.I. TEE: Measurement for this bid item will be on the “each” basis. Payment of this bid item will be made based on the “each” price amount listed in the Bid Proposal Form and will be payment in full for all 10”X10”X6” ductile iron tees installed complete and in-place, MJ restraints, base rock, saw-cutting, submittals, materials, labor, tools, equipment, appurtenances and incidentals required to complete the work as specified. Include field-locks gaskets for all push-on pipe joints less than 40 feet from the bend.
- J. Furnish and Install 8”x6” FLGxMJ D.I. TEE: Measurement for this bid item will be on the “each” basis. Payment of this bid item will be made based on the “each” price amount listed in the Bid Proposal Form and will be payment in full for all 8”X8”X6” ductile iron tees installed complete and in-place, MJ restraints, base rock, saw-cutting, submittals, materials, labor, tools, equipment, appurtenances and incidentals required to complete the work as specified. . Include field-locks gaskets for all push-on pipe joints less than 40 feet from the bend.
- K. Furnish and Install 10” D.I. FLGxMJ Adaptor: Measurement for this bid item will be on the “each” basis. Payment of this bid item will be made based on the “each” price amount listed in the Bid Proposal Form and will be payment in full for each 10” FLGxMJ Adaptor installed complete and in-place, including restraints, submittals, materials, labor, tools, equipment, appurtenances and incidentals required to complete the work as specified.
- L. Furnish and Install 10” D.I. MJ Long Sleeve: Measurement for this bid item will be on the “each” basis. Payment of this bid item will be made based on the “each” price amount listed in the Bid Proposal Form and will be payment in full for each 10” MJ long sleeve installed complete and in-place, including restraints , base rock, saw-cutting, submittals, materials, labor, tools, equipment, appurtenances and incidentals required to complete the work as specified. Include field-locks gaskets for all push-on pipe joints less than 40 feet from the sleeve.
- M. Furnish and Install 6”x4” D.I. MJ Reducer: Measurement for this bid item will be on the “each” basis. Payment of this bid item will be made based on the “each” price amount listed in the Bid Proposal Form and will be payment in full for each 6”x4” MJ reducer installed complete and in-place, including restraints , base rock, saw-cutting, submittals, materials, labor, tools, equipment, appurtenances

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and incidentals required to complete the work as specified. Include field-locks gaskets for all push-on pipe joints less than 40 feet from the sleeve.

- N. Furnish and Install 10” D.I Class 52 Pipe (Class 3 Trench Backfill, Type D Bedding, trench 0 to 6 feet in depth): Measurement for this bid item will be on a “linear-foot” basis. Payment of this bid item will be made on the “linear-foot” price amount listed in the Bid Proposal Form and will be payment in full for furnishing and installing all 10” Ductile Iron class 52 pipe.

This bid item unit price payment shall include excavation, hauling and dumping of spoils, removal and disposal of all vegetation and buried matter, saw-cutting, pipe, pipe bedding type D and pipe zone crushed rock backfill, trench backfill Class 3, base aggregate material, base aggregate hauling & dumping, dewatering, pipe restraints, pressure testing, disinfection testing, sample taps/ports, temporary blow-offs, materials, equipment, tools, labor, fittings, appurtenances and other incidentals required to complete the work as specified.

Dewatering shall be done as per City, County, State and Federal requirements, as applicable. Disinfection testing includes the installation of sampling tap assemblies; the taps will be removed by the City. Base aggregate compaction testing will be done by an independent certified laboratory at no cost to the Contractor for the first test. If the materials fail to meet the specified requirements and additional testing is required, the cost will be at the sole expense of the Contractor.

- O. Furnish and Install 8” D.I Class 52 Pipe (Class 3 Trench Backfill, Type D Bedding, trench 0 to 6 feet in depth): Measurement for this bid item will be on a “linear-foot” basis. Payment of this bid item will be made on the “linear-foot” price amount listed in the Bid Proposal Form and will be payment in full for furnishing and installing all 8” Ductile Iron class 52 pipe.

This bid item unit price payment shall include excavation, hauling and dumping of spoils, removal and disposal of all vegetation and buried matter, saw-cutting, pipe, pipe bedding type D and pipe zone crushed rock backfill, trench backfill Class 3, base aggregate material, base aggregate hauling & dumping, dewatering, pipe restraints, pressure testing, disinfection testing, sample taps/ports, temporary blow-offs, materials, equipment, tools, labor, fittings, appurtenances and other incidentals required to complete the work as specified.

Dewatering shall be done as per City, County, State and Federal requirements, as applicable. Disinfection testing includes the installation of sampling tap assemblies; the taps will be removed by the City. Base aggregate compaction testing will be done by an independent certified laboratory at no cost to the Contractor for the first test. If the materials fail to meet the specified requirements

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and additional testing is required, the cost will be at the sole expense of the Contractor.

- P. Furnish and Install 6” D.I Class 52 Pipe (Class 3 Trench Backfill, Type D Bedding, trench 0 to 6 feet in depth): Measurement for this bid item will be on a “linear-foot” basis. Payment of this bid item will be made on the “linear-foot” price amount listed in the Bid Proposal Form and will be payment in full for furnishing and installing all 6” Ductile Iron class 52 pipe.

This bid item unit price payment shall include excavation, hauling and dumping of spoils, removal and disposal of all vegetation and buried matter, saw-cutting, pipe, pipe bedding type D and pipe zone crushed rock backfill, trench backfill class 3, base aggregate material, base aggregate hauling & dumping, dewatering, pipe restraints, pressure testing, disinfection testing, sample taps/ports, temporary blow-offs, materials, equipment, tools, labor, fittings, appurtenances and other incidentals required to complete the work as specified.

Dewatering shall be done as per City, County, State and Federal requirements, as applicable. Disinfection testing includes the installation of sampling tap assemblies; the taps will be removed by the City. Base aggregate compaction testing will be done by an independent certified laboratory at no cost to the Contractor for the first test. If the materials fail to meet the specified requirements and additional testing is required, the cost will be at the sole expense of the Contractor.

- Q. Furnish and Install Fire Hydrant Assembly: Measurement of this bid item will be on the “each” basis as per the “Fire Hydrant Assembly” detail as a whole. Payment for this bid item will be made based on the “each” price amount listed in the Bid Proposal Form and will be payment in full for all of the items shown within the detail, installed complete in-place, including excavation, hauling and dumping of spoils, compacted backfill, fire hydrant, pier blocks, 6” D.I. spool pipe (between the “tee” at the main and Fire Hydrant), 6” gate valve, valve box, valve box lid, thrust blocks, pipe restraints, backfill material, bedding, pressure testing, disinfection, materials, equipment, tools, labor, fittings, appurtenances and other incidentals required to complete the work as specified.

The D.I. TEE’s at the main line are not part of this bid item.

- R. Furnish and Install Water Combination Air Release Valve Assembly: Measurement of this bid item will be on the “each” basis as per the “Combination Air Release Valve Assembly” detail as a whole. Payment for this bid item will be made based on the “each” price amount listed in the Bid Proposal Form and will be payment in full for all of the items shown within the detail, installed complete in-place, including excavation, hauling and dumping of spoils, compacted backfill, combination air valve manufactured by val-matic, corporation stop,

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- galvanized iron pipe, pipe supports, 48" flat top precast manhole, manhole frame and lid, pressure treated post, pressure testing, disinfection, materials, equipment, tools, labor, fittings, appurtenances and other incidentals required to complete the work as specified.
- S. Furnish and Install 12" D.I. FLGxMJ Gate Valve: Measurement of this bid item will be on the "each" basis. Payment for this bid item will be made based on the "each" price amount listed in the Bid Proposal Form and will be payment in full for valve installed complete and in-place, including excavation, hauling and dumping of spoils, compacted backfill, pipe restraints, pressure testing, disinfection, materials, equipment, tools, labor, fittings, appurtenances and other incidentals required to complete the work as specified.
- T. Furnish and Install 10" D.I. FLGxMJ Gate Valve: Measurement of this bid item will be on the "each" basis. Payment for this bid item will be made based on the "each" price amount listed in the Bid Proposal Form and will be payment in full for valve installed complete and in-place, including excavation, hauling and dumping of spoils, compacted backfill, pipe restraints, pressure testing, disinfection, materials, equipment, tools, labor, fittings, appurtenances and other incidentals required to complete the work as specified.
- U. Furnish and Install 8" D.I. FLGxMJ Gate Valve: Measurement of this bid item will be on the "each" basis. Payment for this bid item will be made based on the "each" price amount listed in the Bid Proposal Form and will be payment in full for valve installed complete and in-place, including excavation, hauling and dumping of spoils, compacted backfill, pipe restraints, pressure testing, disinfection, materials, equipment, tools, labor, fittings, appurtenances and other incidentals required to complete the work as specified.
- V. Furnish and Install 6" D.I. FLGxMJ Gate Valve: Measurement of this bid item will be on the "each" basis. Payment for this bid item will be made based on the "each" price amount listed in the Bid Proposal Form and will be payment in full for valve installed complete and in-place, including excavation, hauling and dumping of spoils, compacted backfill, pipe restraints, pressure testing, disinfection, materials, equipment, tools, labor, fittings, appurtenances and other incidentals required to complete the work as specified.
- W. Furnish and Install 8" D.I. FLG "TEE": Measurement for this bid item will be on the "each" basis. Payment of this bid item will be made based on the "each" price amount listed in the Bid Proposal Form and will be payment in full for all 8" FLG "TEE" installed complete and in-place, mechanical restraints, base rock, saw-cutting, submittals, materials, labor, tools, equipment, appurtenances and incidentals required to complete the work as specified. Include field-locks gaskets for all push-on pipe joints less than 40 feet from the tee.

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- X. Furnish and Install 12" D.I. FLG "TEE": Measurement for this bid item will be on the "each" basis. Payment of this bid item will be made based on the "each" price amount listed in the Bid Proposal Form and will be payment in full for all 12" FLG "TEE" installed complete and in-place, mechanical restraints, base rock, saw-cutting, submittals, materials, labor, tools, equipment, appurtenances and incidentals required to complete the work as specified. Include field-locks gaskets for all push-on pipe joints less than 40 feet from the tee.
- Y. Furnish and Install 12"x10" D.I. FLGxMJ Reducer: Measurement for this bid item will be on the "each" basis. Payment of this bid item will be made based on the "each" price amount listed in the Bid Proposal Form and will be payment in full for each 12"x10" MJ reducer installed complete and in-place, including restraints, base rock, saw-cutting, submittals, materials, labor, tools, equipment, appurtenances and incidentals required to complete the work as specified. Include field-locks gaskets for all push-on pipe joints less than 40 feet from the sleeve.
- Z. Furnish and Install 12"x8" D.I. FLGxMJ Reducer: Measurement for this bid item will be on the "each" basis. Payment of this bid item will be made based on the "each" price amount listed in the Bid Proposal Form and will be payment in full for each 12"x8" MJ reducer installed complete and in-place, including restraints, base rock, saw-cutting, submittals, materials, labor, tools, equipment, appurtenances and incidentals required to complete the work as specified. Include field-locks gaskets for all push-on pipe joints less than 40 feet from the sleeve.
- AA. Furnish and Install 8"x10" D.I. FLG "CROSS": Measurement for this bid item will be on the "each" basis. Payment of this bid item will be made based on the "each" price amount listed in the Bid Proposal Form and will be payment in full for each 8"x10" D.I. FLG "CROSS" installed complete and in-place, mechanical restraints, base rock, saw-cutting, submittals, materials, labor, tools, equipment, appurtenances and incidentals required to complete the work as specified.
- BB. 1" Water Service Connections Behind New Meter Boxes: Measurement for this bid item will be on the "each" basis. Payment of this bid item will be made based on the "each" price amount listed in the Bid Proposal Form and will be payment in full for each connection complete in-place, including site investigations, exploratory excavation to confirm existing pipe locations, preparation of a detailed system layout plan, consultation with the property owners and City, obtaining and complying with Marion County permits and approvals and payment of all related fees; the 1-inch diameter copper service pipe between the meter and existing pipe, capping of the abandoned existing service pipe, all fittings, all surface restoration, approval of plumbing inspector, saw-cutting, submittals, materials, labor, tools, equipment, appurtenances and incidentals required to complete the work as specified. This work is for the connection between the meter box and existing water service lines.

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- CC. 1-1/2" Water Service Connections Behind New Meter Boxes: Measurement for this bid item will be on the "each" basis. Payment of this bid item will be made based on the "each" price amount listed in the Bid Proposal Form and will be payment in full for each connection complete in-place, including site investigations, exploratory excavation to confirm existing pipe locations, preparation of a detailed system layout plan, consultation with the property owners and City, obtaining and complying with Marion County permits and payment of all related fees; the 1-1/2inch diameter copper service pipe between the meter and existing pipe, capping of the abandoned existing service pipe, all fittings, all surface restoration, approval of plumbing inspector, saw-cutting, submittals, materials, labor, tools, equipment, appurtenances and incidentals required to complete the work as specified. This work is for the connection between the meter box and existing water service lines.

Final connection will be done after all testing for the new water main and service line is completed and accepted by the Engineer.

- DD. 2" Water Service Connections Behind New Meter Boxes: Measurement for this bid item will be on the "each" basis. Payment of this bid item will be made based on the "each" price amount listed in the Bid Proposal Form and will be payment in full for each connection complete in-place, including site investigations, exploratory excavation to confirm existing pipe locations, preparation of a detailed system layout plan, consultation with the property owners and City, obtaining and complying with Marion County permits and payment of all related fees; the 2-inch diameter copper service pipe between the meter and existing pipe, capping of the abandoned existing service pipe, all fittings, all surface restoration, approval of plumbing inspector, saw-cutting, submittals, materials, labor, tools, equipment, appurtenances and incidentals required to complete the work as specified. This work is for the connection between the meter box and existing water service lines.

Final connection will be done after all testing for the new water main and service line is completed and accepted by the Engineer.

- EE. 6" Fire Service Connections To Existing Pipes: Measurement for this bid item will be on the "each" basis. Payment of this bid item will be made based on the "each" price amount listed in the Bid Proposal Form and will be payment in full for each connection complete in-place, including site investigations, exploratory excavation to confirm existing pipe location, preparation of a detailed system layout plan, consultation with the property owners and City, obtaining and complying with Marion County permits including permit fees, D.I. solid long

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sleeves, Class 52 D.I pipe, D.I. megalug mechanical joints, other fittings, all surface restoration, saw-cutting, submittals, materials, labor, tools, equipment, appurtenances and incidentals required to complete the work as specified.

Final connection will be done after all testing for the new water main and service lines are completed and accepted by the Engineer.

FF. 1" Water Service Assembly: Measurement for this bid item will be on the "each" basis. Payment of this bid item will be made based on the "each" price amount listed in the Bid Proposal Form and will be payment in full for each service tap to the main, the 1-inch diameter copper service pipe from the main to the meter, non-traffic or traffic meter box, the 1-inch diameter corporation stop valve and 1-inch angle meter valve and 1" water meter.

GG. 1-1/2" Water Service Assembly: Measurement for this bid item will be on the "each" basis. Payment of this bid item will be made based on the "each" price amount listed in the Bid Proposal Form and will be payment in full for each service tap to the main, "TEE", the 1-1/2inch diameter copper service pipe from the main to the meter, non-traffic or traffic meter box, the 1-1/2 inch diameter corporation stop valve and 1-1/2inch angle meter valve, and 1.5" water meter.

HH. 2" Water Service Assembly: Measurement for this bid item will be on the "each" basis. Payment of this bid item will be made based on the "each" price amount listed in the Bid Proposal Form and will be payment in full for each service tap to the main, the 2-inch diameter copper service pipe from the main to the meter, non-traffic or traffic meter box, the 2-inch diameter corporation stop valve and 2-inch angle meter valve, and 2" water meter.

II. Furnish and Install 2" Blowoff Assembly: Measurement of this bid item will be on the "each" basis. Payment for this bid item will be made based on the "each" price amount listed in the Bid Proposal Form and will be payment in full for all the items shown with in the "Blowoff " detail, installed complete and in-place, including excavation, 2" valve, traffic rated valve boxes and lids, thrust blocking, valve plug, 2" tap, 2" copper pipe, 2" bronze ball valve, 2" galvanized plug, and hauling and dumping of spoils, compacted backfill, pipe restraints, pressure testing, disinfection, materials, equipment, tools, labor, fittings, appurtenances and other incidentals required to complete the work as specified.

JJ. Asphaltic Concrete Surface Trench Restoration (2" of AC): Measurement for replacing and removed existing surfacing with asphaltic concrete (AC) for pavement of 2" thickness will be on the "ton" basis. Payment for this bid item will be made based on the "ton" price amount listed in the Bid Proposal Form and will be payment in full for AC installed in-place, including excavation, hauling and dumping of spoils, compacted AC, materials, equipment, tools, labor, appurtenances and other incidentals required to complete the work as specified.

Special Provisions

Project Name: I-5 Interchange – Waterline Relocation at Evergreen Extension

Project No: 2012-023-12

Addendum #1

- KK. General Work Area Surface Restoration: Measurement for this bid item will be on the “lump sum” basis. Payment for surface restoration, including all surfaces not otherwise provided in other bid items, including restoration of existing roadside, ditches, private properties, re-grading, re-paint paving markings, seeding easement areas; remove/relocate jersey barriers, concrete block structures, fences; and cleanup following the construction, will be on a “lump sum” basis.
- LL. Asphaltic Concrete / Portland Cement Concrete Saw-Cutting: Measurement of this bid item will be on a “linear-foot” basis for the total amount of asphaltic concrete pavement and Portland cement concrete that is saw-cut to full depth. Payment of this bid item will be made on the “linear-foot” price amount listed in the Bid Proposal Form and will be payment in full for all materials, labor, tools, equipment, and incidentals required to complete the work as specified.
- MM. Construction Survey Work and Staking: Measurement for this bid item will be on a “percent complete” basis. Payment of this bid item will be made on the “lump sum” price amount listed in the Bid Proposal Form and will be payment in full for all costs associated with establishing construction stakes in conformance with the horizontal and vertical geometry of this project in order to construct all elements of this project, re-establishing construction stakes as needed, materials, labor, tools, equipment, and incidentals required to complete the work as specified.
- NN. Construct Curb and Gutter: Measurement for this bid item will be on a “linear-foot” basis. Payment for this bid item will be made on the “linear-foot” price amount listed in the Bid Proposal Form and will be payment in full for all Portland cement concrete installed complete and in-place, removal and disposal of existing concrete curb and gutter, saw-cutting, excavation, base rock, removal and disposal of spoils, compaction, submittals, materials, equipment, tools, labor, appurtenances, and incidentals required to complete the work as specified.
- OO. Remove and Reinstall Street Signs and Sign Supports: Measurement of this bid item will be on the “each” basis. Payment for this bid item will be made based on the “each” price amount listed in the Bid Proposal Form and will be payment in full for the removal and replacement of signs, sign supports, materials, equipment, tools, labor, appurtenances and other incidentals required to complete the work as specified.
- Upon removal of existing signs and sign supports, the Contractor shall temporary place the sign and sign supports at a location to be visible for the drivers.
- PP. 1-1/2” Backflow Preventer : Measurement for this bid item will be on the “each” basis. Payment of this bid item will be made based on the “each” price amount

Special Provisions

Project Name: I-5 Interchange – Waterline Relocation at Evergreen Extension

Project No: 2012-023-12

Addendum #1

listed in the Bid Proposal Form and will be payment in full for each 1-1/2” backflow preventer installed in place, materials, equipment, tools, labor, appurtenances and other incidentals required to complete the work as specified.

QQ. 2” Backflow Preventer: Measurement for this bid item will be on the “each” basis. Payment of this bid item will be made based on the “each” price amount listed in the Bid Proposal Form and will be payment in full for each 2” backflow preventer installed in place, materials, equipment, tools, labor, appurtenances and other incidentals required to complete the work as specified

11. **THE CONTRACTOR SHALL COMPLY WITH “ODOT RIGHT OF WAY PERMIT REQUIREMENTS ON PERMIT No 03M42495”.** Contractor shall comply with all requirements set on ODOT permit No. 03M42495 for work in this project. ODOT Permit No. 03M42495 in this contract documents.

Special Provisions

Project Name: I-5 Interchange – Waterline Relocation at Evergreen Extension

Project No: 2012-023-12

Addendum #1 Bid Proposal

BID PROPOSAL

Honorable Mayor and City Council
City Hall
Woodburn, Oregon 97071

The undersigned, hereinafter called the Bidder, declares that the only persons or parties interested in this Proposal are those named herein, that the Proposal is in all respects fair and without fraud, which it is made without any connection or collusion with any person making another Proposal on this Contract.

The Bidder further declares that he has carefully examined the Contract Documents for the construction of the proposed improvements; that he has personally inspected the site; that he has satisfied himself as to the quantities of materials, items of equipment, and conditions or work involved, including the fact that the description of work and materials as included herein, is brief and is intended only to indicate the general nature of such items and to identify the said quantities with the detailed requirements of the Contract Documents; and that this Proposal is made according to the provisions and the terms of the Contract Documents, which Documents are herein attached and are hereby made a part of this Proposal.

The Bidder further agrees to complete construction of all work in all respects in accordance with the Special Provisions incorporated herein.

In the event the Bidder is awarded the Contract and shall fail to complete the work within the time limit set under Specifications of this document or extended time limit agreed upon, as more particularly set forth in the Contract Documents, liquidated damages shall be paid to the City of Woodburn, Oregon, using the rate formula outlined in Article G(5) of the General Conditions, and not less than \$150.00 per day, until the work shall have been finished, as provided by the Contract Documents.

The Bidder further proposes to accept as full payment for the work proposed herein the amount computed under the provisions of the Contract Documents and based on the following unit price amounts, it being expressly understood that the unit prices are independent of the exact quantities involved, that they represent a true measure of the labor and material required to perform the work, including all allowance for overhead and profit for each type and unit of work called for in these Contract Documents.

The amounts shall be shown in both words and figures. In case of discrepancy, the amount shown in words shall govern.

It is declared that the Bidder will comply with all the provisions of ORS 279C.840 or U.S.C 2764a. The workmen on the project will be paid the higher of either the federal Davis Bacon rates or Oregon Prevailing wages rates (also called "PWR").

Addendum #1 Bid Proposal

It is agreed that if the Bidder is awarded the Contract for the work herein proposed and shall fail or refuse to execute the Contract and furnish the specified Performance Bond within ten (10) calendar days after receipt of notification of acceptance of his Proposal, then, in that event, the bid security in the sum of:

(In Words): _____

(In Numbers): \$ _____

deposited herewith according to the conditions of the Advertisement for Bids and Information to Bidders, shall be retained by the City of Woodburn, Oregon, as liquidated damages; and it is agreed that the said sum is a fair measure of the amount of damage the City of Woodburn will sustain in case the Bidder shall fail or refuse to enter into the contract for the said work and to furnish the Performance Bond as specified in the Contract Documents. Bid security in the form of a certified check shall be subject to the same requirements as a bid bond.

If the Bidder is awarded a construction contract on this proposal, the surety who will provide the Performance Bond will be:

_____ whose address is:

_____, _____, _____
Street City State Zip

Agents Name: _____ Phone No. _____

The address for all communications concerned with this Proposal and where the Contract shall be sent is:

Contractor: _____ doing business at:

_____, _____, _____
Street City State Zip

Addendum #1 Bid Proposal

I-5 INTERCHANGE WATERLINE RELOCATION AT EVERGREEN EXTENSION					
PROJECT No.: 2012-023-12					
BID No. 2013-05					
ITEM No.	BID ITEMS	UNITS	QUANT ITY	UNIT COST	TOTAL COST
1	Mobilization	LS	1	\$	\$
2	Temporary Protection and Direction of Traffic	LS	1	\$	\$
3	Erosion and Sediment Control	LS	1	\$	\$
4	10" Hot Tap into a 10" Pipe	EA	1	\$	\$
5	Furnish and Install 10" 45° D.I. Bend	EA	2	\$	\$
6	Furnish and Install 8" 45° D.I. Bend	EA	1	\$	\$
7	Furnish and Install 8" 22.5° D.I. Bend	EA	1	\$	\$
8	Furnish and Install 8" 11.25° D.I. Bend	EA	6	\$	\$
9	Furnish and Install 10"x6" FLGXMJ D.I. TEE	EA	1	\$	\$
10	Furnish and Install 8"x6" FLGXMJ D.I. TEE	EA	8	\$	\$
11	Furnish and Install 10" D.I. FLGxMJ adaptor	EA	1	\$	\$
12	Furnish and Install 10" MJ D.I. Long Sleeve	EA	1	\$	\$
13	Furnish and Install 6"x4" D.I. MJ Reducer	EA	1	\$	\$
14	Furnish and Install 10" D.I. Class 52 Pipe (Class 3 Trench Backfill, Type D Bedding, trench 0 to 6 feet in depth)	LF	232	\$	\$
15	Furnish and Install 8" D.I. Class 52 Pipe (Class 3 Trench Backfill, Type D Bedding, trench 0 to 6 feet in depth)	LF	1110	\$	\$
16	Furnish and Install 6" D.I. Class 52 Pipe (Class 3 Trench Backfill, Type D Bedding, trench 0 to 6 feet in depth)	LF	325	\$	\$
17	Furnish and Install Fire Hydrant Assembly	EA	4	\$	\$
18	Furnish and Install Water Combination Air Release Valve Assembly	EA	1	\$	\$
19	Furnish and Install 12" D.I. FLGxMJ Gate Valve	EA	1	\$	\$
20	Furnish and Install 10" D.I. FLGxMJ Gate Valve	EA	1	\$	\$

Addendum #1 Bid Proposal

21	Furnish and Install 8" D.I. FLGxMJ Gate Valve	EA	8	\$	\$
22	Furnish and Install 6" D.I. FLGxMJ Gate Valve	EA	4	\$	\$
23	Furnish and Install 8" D.I. FLG "TEE"	EA	2	\$	\$
24	Furnish and Install 12" D.I. FLG "TEE"	EA	1	\$	\$
25	Furnish and Install 12"x10" D.I. FLGxMJ Reducer	EA	1	\$	\$
26	Furnish and Install 12"x8" D.I. FLGxMJ Reducer	EA	1	\$	\$
27	Furnish and Install 8"x10" D.I. FLG "CROSS"	EA	1	\$	\$
28	1" Water Service Connection Behind New Water Meters	EA	3	\$	\$
29	1.5" Water Service Connection Behind New Water Meters	EA	1	\$	\$
30	2" Water Service Connection Behind New Water Meters	EA	2	\$	\$
31	6" Fire Service Connections to existing Pipe	EA	3	\$	\$
32	1" Water Service Assembly	EA	5	\$	\$
33	1.5" Water Service Assembly	EA	4	\$	\$
34	2" Water Service Assembly	EA	2	\$	\$
35	Furnish and Install 2" Blowoff Assembly	EA	2	\$	\$
36	Asphaltic Concrete Surface Trench Restoration (2" of AC)	TON	50	\$	\$
37	General Work Area Surface Restoration	LS	1	\$	\$
38	Asphaltic Concrete / Portland Cement Concrete Saw-Cutting	LF	750	\$	\$
39	Construction Survey Work and Staking	LS	1	\$	\$
40	Construct Curb and Gutter	LF	50	\$	\$
41	Remove and Reinstall Street Signs and Signs Supports	EA	2	\$	\$
42	1-1/2" Backflow Preventer	EA	1	\$	\$
43	2" Backflow Preventer	EA	1	\$	\$

TOTAL:\$ _____

Addendum #1 Bid Proposal

The names of the principal officers of the corporation submitting this Proposal, or of the partnership, or of all persons interested in this Proposal as principals are as follows:

(If Sole Proprietor or Partnership)

In witness hereto the undersigned has set his (its) hand this _____ day of _____, 20____.

Signature of Bidder Title (If Corporation)

In witness whereof the undersigned corporation has caused this instrument to be executed and its seal affixed by its duly authorized officers this _____ day of _____, 20____.

Name of Corporation _____
By: _____
Title _____
Construction Contractor's Board No. _____

Attest: _____
Secretary

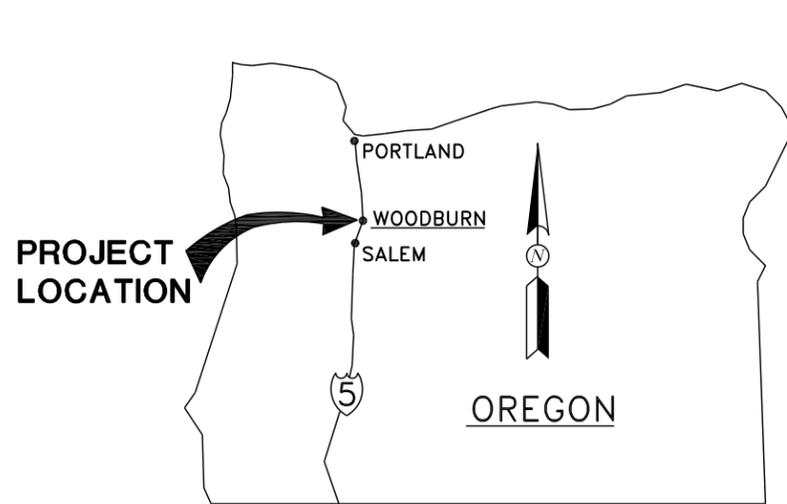
Initial "Bidder will comply with the provisions of ORS 279C.840.

In accordance with ORS 279A.120(b) and as specified in the Invitation to Bid, I [__] am [__] am not (check appropriate box) a "resident bidder". Resident Bidder means a bidder that has paid unemployment taxes or income taxes to the State of Oregon during the 12- month period preceding submission of this bid and has a business address in this state.

Attest: _____
Bidder

I-5 INTERCHANGE - WATERLINE RELOCATION AT EVERGREEN EXTENSION

PROJECT No. 2012-023-12 BID No. 2013-05



PROJECT LOCATION

AREA MAP NTS

DATUM IS BASED ON CITY SURVEYING:



VICINITY MAP NTS

PROJECT LOCATIONS

INDEX OF DRAWINGS

SHEET NO.	TITLE	DWG NO.
1	TITLE SHEET	G-1
2	LEGENDS AND CONSTRUCTION NOTES	G-2
3	PLAN & PROFILE	C-1
4	PLAN & PROFILE	C-2
5	PLAN & PROFILE	C-3
6	DETAILS	D-1
7	DETAILS	D-2
8	DETAILS	D-3
9	DETAILS	D-4

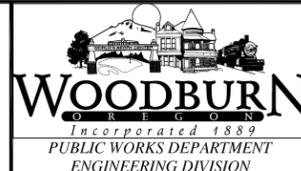
BID SET



THIS BAR IS ONE-INCH ON ORIGINAL DRAWING.



DESIGNED: DG
 DRAWN: GK
 REVIEWED: EL
 APPROVED: EL
 HORIZONTAL DATUM: LOCAL
 VERTICAL DATUM: LOCAL



REVISIONS:	
ADDENDUM 1	2-11-13

UTILITY RELOCATION I-5 INTERCHANGE
WATERLINE RELOCATION AT EVERGREEN EXTENSION

TITLE SHEET

PROJECT NO.
2012-023-12

DATE
JAN. 2013

DWG NO.
G-1

SHEET
1 OF 9

SYMBOLS

DESCRIPTION	EXST	NEW
GAS METER		
SANITARY MANHOLE		
STORM MANHOLE		
CATCHBASIN		
WATER METER		
SERVICE UTILITY LINE CAPPED OFF		
PHONE J-BOX		
STREET/AREA LIGHT		
POWER POLE W/ LIGHT		
POWER POLE		
MAIL BOX		
ELECT TRANSFORMER		
DECIDUOUS TREE		
WETLANDS		
SLOPE DIRECTION		
SPOT ELEVATION		
CITY CONTROL MONUMENT		
LOCAL CONTROL POINT		
SIGN POST, SINGLE POLE		
SIGN POST, DOUBLE POLE		
PROP. CORNER (APPROXIMATE LOCATION)		
IRON PIPE (FOUND)		
INLINE VALVE		
FIRE HYDRANT		

GENERAL NOTES:

- CONTRACTOR SHALL CONFORM TO ALL CITY OF WOODBURN, OREGON DEPARTMENT OF TRANSPORTATION AND MARION COUNTY STANDARD SPECIFICATIONS, AMERICAN WATER WORKS ASSOCIATION (AWWA) STANDARDS, PLUMBING CODES, AND OREGON ADMINISTRATIVE RULES (OAR), EXCEPT AS MODIFIED HEREIN. THE CONTRACTOR SHALL MAINTAIN ONE SET OF PLANS AND SPECIFICATIONS ON SITE DURING WORK HOURS.
- UNLESS APPROVED IN WRITING, BY THE CITY ENGINEER, ALL WORK SHALL BE ACCOMPLISHED BETWEEN 7:00 AM AND 7:00 PM, OR AS SPECIFIED ON ODOT'S RIGHT-OF-WAY PERMIT.
- CONTRACTOR SHALL PERFORM ALL WORK NECESSARY TO COMPLETE THE PROJECT IN ACCORDANCE WITH THE APPROVED CONSTRUCTION DRAWINGS AND SPECIFICATIONS, INCLUDING SUCH INCIDENTALS AS MAY BE NECESSARY TO MEET APPLICABLE REQUIREMENTS AND PROVIDE A COMPLETE PROJECT.
- RESTORATION SHALL BE COMPLETED TO ALL PROPERTIES THAT ARE AFFECTED DUE TO CONSTRUCTION ACTIVITIES. RESTORATION SHALL BE CONSIDERED INCIDENTAL TO THIS PROJECT.
- CONSTRUCTION WILL BE RUNNING ADJACENT TO RESIDENTIAL AND BUSINESS PROPERTIES. OWNER/RESIDENTS SHALL BE AFFORDED ACCESS TO THEIR PROPERTIES AT ALL TIMES DURING CONSTRUCTION. CONTRACTOR TO MAKE ALLOWANCES FOR ANY LOCAL DELIVERIES AND/OR GARBAGE PICK-UP. PROVIDE WRITTEN NOTICE TO ALL PROPERTY OWNERS AT LEAST 2 BUSINESS DAYS IN ADVANCE OF WORK BEING PERFORMED ON DRIVEWAYS.
- ANY INSPECTIONS BY THE ENGINEER AND/OR HIS REPRESENTATIVE SHALL NOT, IN ANYWAY, RELIEVE THE CONTRACTOR FROM ANY OBLIGATION TO PERFORM THE WORK IN STRICT COMPLIANCE WITH APPLICABLE CODES AND AGENCY REQUIREMENTS.
- CONTRACTOR SHALL ERECT AND MAINTAIN BARRICADES, WARNING SIGNS, AND TRAFFIC CONES PER THE CITY APPROVED TRAFFIC CONTROL PLAN AND IN ACCORDANCE WITH THE MUTCD (INCLUDING OREGON AMENDMENTS). ALL TRAFFIC CONTROL DEVICES SHALL BE PLACED PRIOR TO ANY CONSTRUCTION ACTIVITY. CONTRACTOR SHALL NEVER LEAVE THE SITE IN A STATE THAT IS DEEMED, BY THE ENGINEER AND/OR OTHER APPROVED AGENT, TO BE A PUBLIC HEALTH OR SAFETY RISK.
- THE CONTRACTOR SHALL MAINTAIN ONE COMPLETE SET OF APPROVED PLAN DRAWINGS ON SITE AT ALL TIMES WHEREON HE WILL RECORD ALL APPROVED CHANGES AND/OR DEVIATIONS IN CONSTRUCTION FROM THE APPROVED DRAWINGS, AS WELL AS THE STATION AND DEPTHS OF ALL EXISTING UTILITIES ENCOUNTERED. THESE DRAWINGS SHALL ALWAYS BE AVAILABLE TO THE ENGINEER FOR INSPECTION.
- UPON COMPLETION OF CONSTRUCTION OF PUBLIC FACILITIES, THE CONTRACTOR SHALL SUBMIT A CLEAN SET OF FIELD RECORD DRAWINGS CONTAINING ALL AS-BUILT INFORMATION TO THE ENGINEER.
- THE CONTRACTOR SHALL PROCURE AND CONFORM TO DEQ STORM WATER PERMIT No. 1200C FOR CONSTRUCTION ACTIVITIES WHERE 1 ACRE OR MORE AREA IS DISTURBED.
- CONTRACTOR MAY PROCURE WATER FROM A CITY FIRE HYDRANT ONLY AFTER APPROVAL OF THE ENGINEER, INSTALLATION OF BACKFLOW PREVENTER BY CITY DRINKING WATER SECTION CREWS, AND PAYMENT OF APPROPRIATE FEES TO THE WATER SECTION.
- CONTRACTOR SHALL NOTIFY CITY AND ALL UTILITY COMPANIES A MINIMUM OF 2 BUSINESS DAYS PRIOR TO START OF CONSTRUCTION ACTIVITIES AND COMPLY WITH ALL OTHER REQUIREMENTS OF ORS 757.541 TO 757.571.
- CONTRACTOR SHALL CONFINE ALL PUBLIC IMPROVEMENT WORK TO THE DEDICATED RIGHT-OF-WAY AND UTILITY EASEMENT AREAS.
- EROSION CONTROL, DUST CONTROL AND DRAINAGE CONTROL IS REQUIRED AT ALL TIMES. THE CONTRACTOR IS RESPONSIBLE FOR PROTECTION OF ALL WORK, ADJACENT PROPERTIES AND ALL FACILITIES FROM EROSION AND SILTATION DURING THE COURSE OF THE WORK. DAMAGE TO EXISTING FACILITIES AND PROPERTIES DUE TO EROSION AND SILTATION SHALL BE CORRECTED AT THE SOLE EXPENSE OF THE CONTRACTOR.
- CONTRACTOR IS RESPONSIBLE FOR MAINTAINING DUST CONTROL MEASURES TO REDUCE DUST EMISSIONS.
- THE LOCATION AND DESCRIPTIONS OF EXISTING UTILITIES SHOWN ON THE PLANS ARE COMPILED FROM THE BEST AVAILABLE RECORDS AND FIELD SURVEYS. THE ENGINEER AND UTILITY COMPANIES DO NOT GUARANTEE THE ACCURACY OR THE COMPLETENESS OF SUCH RECORDS. CONTRACTOR SHALL FIELD VERIFY LOCATIONS OF ALL EXISTING UTILITIES PRIOR TO BEGINNING ANY CONSTRUCTION ACTIVITY.
- THE CONTRACTOR SHALL FIELD VERIFY LOCATION AND DEPTH OF ALL EXISTING UTILITIES WHERE NEW FACILITIES CROSS. CONTRACTOR SHALL BE RESPONSIBLE FOR EXPOSING POTENTIAL UTILITY CONFLICTS FAR ENOUGH AHEAD OF CONSTRUCTION IN ORDER FOR THE ENGINEER TO MAKE NECESSARY GRADE MODIFICATIONS WITHOUT DELAYING THE WORK. ALL UTILITY CROSSINGS SHALL BE POTHOLED PRIOR TO EXCAVATING OR BORING TO MITIGATE POTENTIAL GRADE CONFLICTS. POTHOLING SHALL BE CONSIDERED INCIDENTAL TO THIS PROJECT.
- THE CONTRACTOR SHALL LOCATE AND MARK ALL EXISTING PROPERTY AND STREET MONUMENTS PRIOR TO CONSTRUCTION. ANY MONUMENTS DISTURBED DURING CONSTRUCTION OF THE PROJECT SHALL BE REPLACED AND RECORDED BY A REGISTERED LAND SURVEYOR AT THE CONTRACTOR'S EXPENSE.
- CONTRACTOR SHALL BE AWARE THAT OTHER UTILITIES WILL BE RELOCATED BY OTHER CONTRACTORS/FRANCHISE UTILITY PROVIDERS IN THE SAME AREA OF CONSTRUCTION DURING THE SAME TIMEFRAME AS THE PROJECT. CONTRACTORS SHALL COORDINATE WORK WITH OTHER CONTRACTORS/FRANCHISE UTILITY PROVIDERS DURING THE DURATION OF THE ENTIRE PROJECT. WORK COORDINATION IS CONSIDERED INCIDENTAL TO THIS PROJECT.
- ONLY CITY STAFF CAN OPERATE LIVE WATER VALVES AND FIRE HYDRANTS. NOTIFY THE CITY OF WOODBURN PRIOR TO THE NEED FOR THE OPERATION OF LIVE WATER LINES.
- ALL EXISTING FACILITIES SHALL BE MAINTAINED IN-PLACE BY THE CONTRACTOR UNLESS OTHERWISE SHOWN OR DIRECTED. CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO SUPPORT, MAINTAIN, OR OTHERWISE PROTECT EXISTING UTILITIES AND OTHER FACILITIES AT ALL TIMES DURING CONSTRUCTION. CONTRACTOR SHALL LEAVE EXISTING FACILITIES IN AN EQUAL OR BETTER-THAN-ORIGINAL CONDITION AND TO THE SATISFACTION OF THE ENGINEER.
- UTILITIES, OR INTERFERING PORTIONS OF UTILITIES, THAT ARE ABANDONED IN PLACE SHALL BE REMOVED BY THE CONTRACTOR TO THE EXTENT NECESSARY TO ACCOMPLISH THE WORK. THE CONTRACTOR SHALL PLUG THE REMAINING EXPOSED ENDS OR PLACE CONTROLLED DENSITY FILL IN ABANDONED FACILITIES.
- CONTRACTOR SHALL REMOVE ALL EXISTING SIGNS, MAILBOXES, FENCES, LANDSCAPING, AND ETC. AS REQUIRED TO AVOID DAMAGE DURING CONSTRUCTION AND REPLACE THEM TO EXISTING OR BETTER CONDITION.
- ANY AND ALL WELLS, SEPTIC TANKS AND/OR FUEL TANKS ENCOUNTERED DURING CONSTRUCTION SHALL BE PUMPED OUT. CONTRACTOR SHALL THEN ABANDON THEM IN ACCORDANCE WITH DEQ OR OREGON WATER RESOURCES DEPARTMENT REQUIREMENTS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR MANAGING CONSTRUCTION ACTIVITIES TO INSURE THAT PUBLIC RIGHT-OF-WAYS ARE KEPT CLEAN OF MUD, DUST AND/OR DEBRIS. DUST ABATEMENT SHALL BE MAINTAINED BY ADEQUATE WATERING OF THE SITE BY THE CONTRACTOR.
- CONSTRUCTION ACTIVITIES SHALL BE MONITORED AND MAINTAINED TO INSURE NO PONDING OF EXCESS WATER OCCURS.
- WHEN APPROVED BY THE ENGINEER, THE CONTRACTOR SHALL PUMP FLUIDS AND DEBRIS FROM DEWATERING ACTIVITIES INTO THE CITY SANITARY COLLECTION SYSTEM.
- GRADES SHOWN ON PLANS SHALL BE ACCOMPLISHED TO THE TOLERANCES INDICATED IN THE STANDARD TECHNICAL SPECIFICATIONS WITHIN THE BID DOCUMENTS.
- BITUMINOUS HOT MIX FOR TRENCH CAPS, SURFACE COURSE REPAIRS AND/OR FULL DEPTH REPAIRS SHALL BE AS SHOWN ON THE PLANS.
- AT THE END OF EACH WORKING DAY ALL OPEN TRENCHES SHALL BE BACKFILLED AND ALL TRENCHES WITHIN THE STREET SHALL BE TEMPORARILY PAVED.
- CONTRACTOR SHALL BE RESPONSIBLE FOR CONSTRUCTION SURVEYS.
- ALL NON-METALLIC PIPES SHALL HAVE AN ELECTRICALLY CONDUCTIVE INSULATED 12 GAUGE COPPER TRACER WIRE THE FULL LENGTH OF THE RUN.
- ALL WATER LINES AND APPURTENANCES SHALL BE INSTALLED IN ACCORDANCE WITH THE CITY OF WOODBURN CONSTRUCTION STANDARDS, AMERICAN WATER WORKS ASSOCIATION (AWWA) STANDARDS, OREGON ADMINISTRATIVE RULES (OAR), (ORS) OREGON REVISED STATUTES, AND THE OREGON STATE PLUMBING SPECIALTY CODE (OSPSC), CURRENT EDITIONS, EXCEPT AS MODIFIED HEREIN.
- ALL FITTINGS, TEES, ELBOWS, AND CROSSES SHALL BE MECHANICALLY RESTRAINED. ALL RESTRAINED MECHANICAL JOINT FITTINGS SHALL INCLUDED THE REQUIRED NUMBER OF PUSH-ON PIPE JOINT RESTRAINTS TO OBTAIN THE NECESSARY PIPE RESTRAINED LENGTH. ALL RETAINER GLANDS SHALL BE CONSIDERED INCIDENTAL TO THIS PROJECT.
- CONTRACTOR SHALL DEFLECT WATER MAIN PIPE AS REQUIRED TO MAINTAIN PROPER CLEARANCES UNDER EXISTING STRUCTURES. THE CITY WILL ALLOW A MAX. PIPE DEFLECTION OF 2' FOR EACH 18FT. SECTION.
- CONTRACTOR TO PERFORM HYDROSTATIC AND DISINFECTION TESTING TO NEW WATER LINES IN ACCORDANCE WITH CITY OF WOODBURN STANDARDS AND SPECIFICATIONS. THE COST OF ALL TEMPORARY TAPS, PLUGS, AND BLOWOFFS SHALL BE CONSIDERED INCIDENTAL TO THE UNIT BID ITEMS. CITY OF WOODBURN REPRESENTATIVE MUST BE PRESENT DURING THE HYDROSTATIC AND DISINFECTION TESTING.



CALL BEFORE YOU DIG!
1-800-332-2344

ATTENTION:
OREGON LAW REQUIRES CONTRACTOR TO FOLLOW RULES ADOPTED BY THE OREGON UTILITY NOTIFICATION CENTER. THOSE RULES ARE SET FORTH IN OAR 952-001-0010 THROUGH OAR 952-001-0090. YOU MAY OBTAIN COPIES OF THE RULES BY CALLING THE CENTER. (NOTE: THE TELEPHONE NUMBER FOR THE OREGON UTILITY NOTIFICATION CENTER IS 503.232.1987)

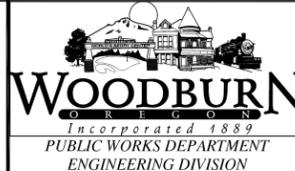
BID SET



THIS BAR IS ONE-INCH ON ORIGINAL DRAWING.



DESIGNED: DG
DRAWN: GK
REVIEWED: EL
APPROVED: EL
HORIZONTAL DATUM: LOCAL
VERTICAL DATUM: LOCAL

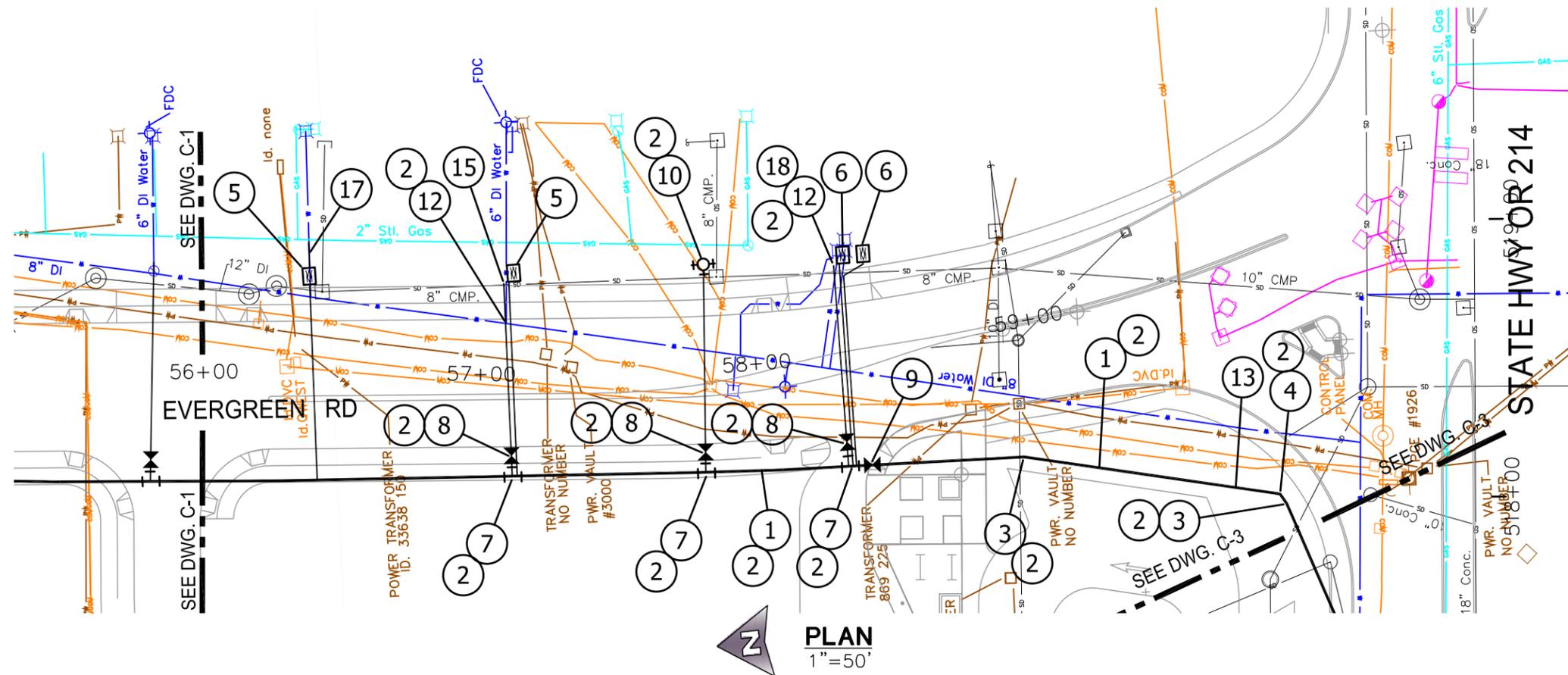


REVISIONS:	
ADDENDUM 1	2-11-13

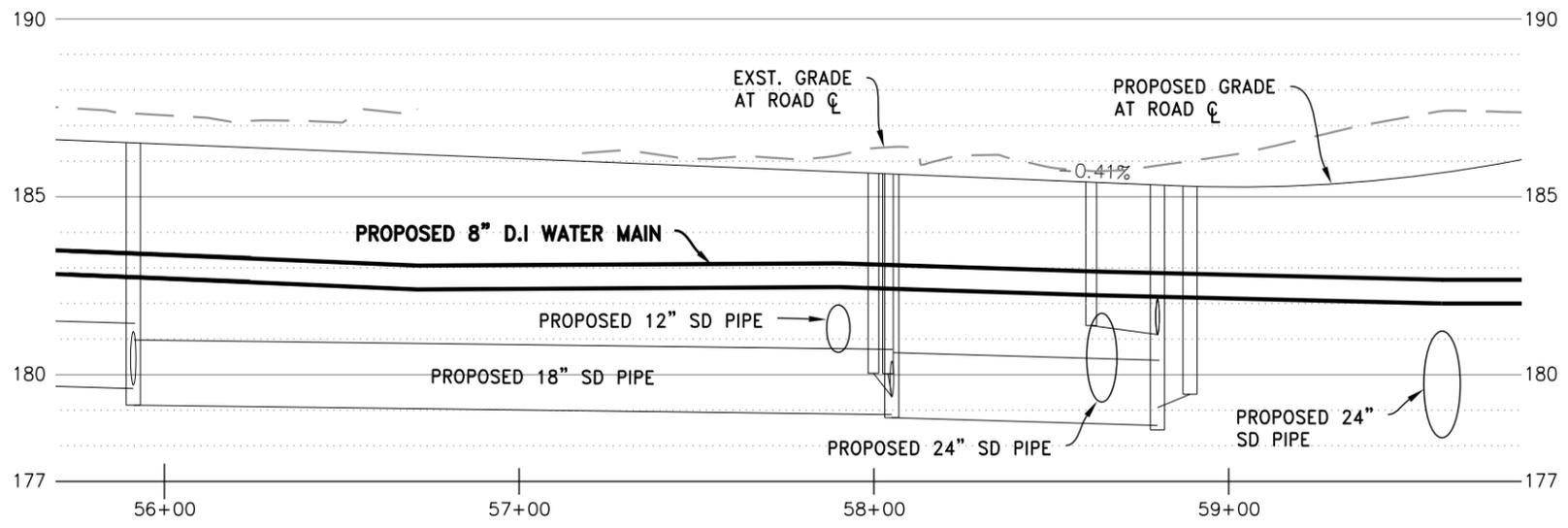
UTILITY RELOCATION 1-5 INTERCHANGE
WATERLINE RELOCATION AT EVERGREEN EXTENSION

LEGENDS AND CONSTRUCTION NOTES

PROJECT NO. 2012-023-12
DATE JAN. 2013
DWG NO. G-2
SHEET 2 OF 9



- PLAN NOTES:**
- INSTALL 8" D.I. CLASS 52 WATER MAIN WITH RESTRAINED MECHANICAL JOINTS, FIELD-LOCK GASKETS AND THRUST BLOCKS AS SPECIFIED. ALL FITTINGS SHALL BE RESTRAINED, SEE NOTE 2.
 - MINIMUM 40LF RESTRAINED PIPE. ALL MECHANICAL JOINTS SHALL BE RESTRAINED WITH MEGALUG SERIES 1100, OR APPROVED EQUAL. USE FIELD LOCK GASKETS IN ALL PUSH-ON PIPE JOINTS A MINIMUM OF 40LF FROM FITTING.
 - INSTALL 8" D.I. 11-1/4" MJ BEND WITH RETAINER GLANDS AND THRUST BLOCKS, AS SPECIFIED. ALL FITTING SHALL BE RESTRAINED, SEE NOTE 2.
 - INSTALL 8" D.I. 45" MJ BEND WITH RETAINER GLANDS AND THRUST BLOCKS, AS SPECIFIED. ALL FITTING SHALL BE RESTRAINED, SEE NOTE 2.
 - INSTALL 1" TYPE "K" COPPER WATER SERVICE LINE ASSEMBLY INCLUDING 1-1/2" WATER METER. SEE STANDARD DETAIL NO. 5000-4 ON DWG. D-2.
 - INSTALL 1-1/2" TYPE "K" COPPER WATER SERVICE LINE ASSEMBLY INCLUDING 1" WATER METER. SEE STANDARD DETAIL NO. 5000-4 ON DWG. D-2.
 - INSTALL 8" X 6" MJ X FLG D.I. CLASS 52 "TEE". ALL FITTINGS SHALL BE RESTRAINED, SEE NOTE 2.
 - INSTALL 6" FLG X MJ GATE VALVE. ALL FITTINGS SHALL BE RESTRAINED, SEE NOTE 2.
 - INSTALL 8" FLG X MJ GATE VALVE. ALL FITTINGS SHALL BE RESTRAINED, SEE NOTE 2.
 - INSTALL FIRE HYDRANT ASSEMBLY. SEE DETAIL 5070-1 & 5050-2 ON DWG. D-3. ALL FITTINGS SHALL BE RESTRAINED. SEE NOTE 2.
 - NOT USED.
 - INSTALL 6" D.I. CLASS 52 WATER MAIN WITH RESTRAINED MECHANICAL JOINTS, FIELD-LOCK GASKETS AND THRUST BLOCKS AS SPECIFIED. ALL FITTINGS SHALL BE RESTRAINED, SEE NOTE 2.
 - INSTALL SAMPLING TAP ASSEMBLY. SEE DETAIL 5100-1 ON DWG. D-1.
 - NOT USED.
 - INSTALL STANDARD BLOWOFF ASSEMBLY. SEE DETAIL 5000-5 ON DWG. D-4.
 - NOT USED.
 - CONNECT WATER SERVICES TO EXISTING PIPES BEHIND THE METER. CONTRACTOR SHALL OBTAIN ALL APPROPRIATE PERMITS PRIOR TO FINAL CONNECTION.
 - CONNECT 6" FIRE SERVICE LINES TO EXISTING LINES AT THE VAULT.



PROFILE
 HORIZONTAL: 1"=50'
 VERTICAL: 1"=5'

- GENERAL NOTES:**
- BACKFILL TRENCH WITH CLASS 3 BACKFILL AND TYPE "D" PIPE TRENCH BEDDING AND ZONE (1"-MINUS CRUSHED AGGREGATE) COMPACTED 6" LIFTS TO 95% AASHTO T-99. SEE DETAIL 3800-1 AND 3800-2 ON DWG. D-2.
 - SAWCUT AND REMOVE EXISTING AC AND CONCRETE TRENCH SURFACING THROUGHOUT THE PROJECT LIMITS AND REPLACE WITH 2" OF AC.

LEGEND (EXST. UTILITIES)

— STORM SEWER	— NW NATURAL GAS
— SANITARY SEWER	— WATER
— PGE	— SIGNAL (TRAFFIC)
— COMMUNICATIONS	

BID SET

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 APPROVED: EL
 HORIZONTAL DATUM: LOCAL
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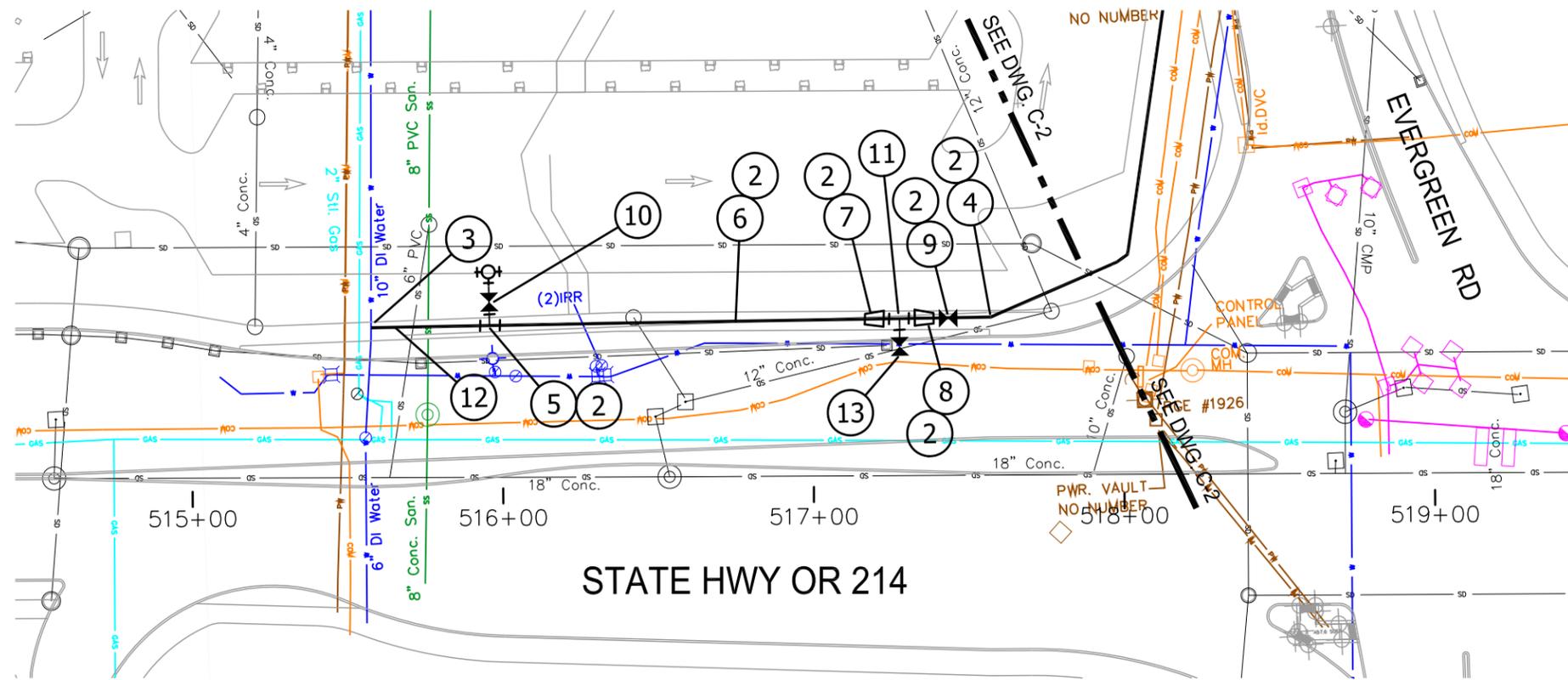


REVISIONS:	
ADDENDUM 1	2-11-13

UTILITY RELOCATION 1-5 INTERCHANGE
 WATERLINE RELOCATION AT EVERGREEN EXTENSION

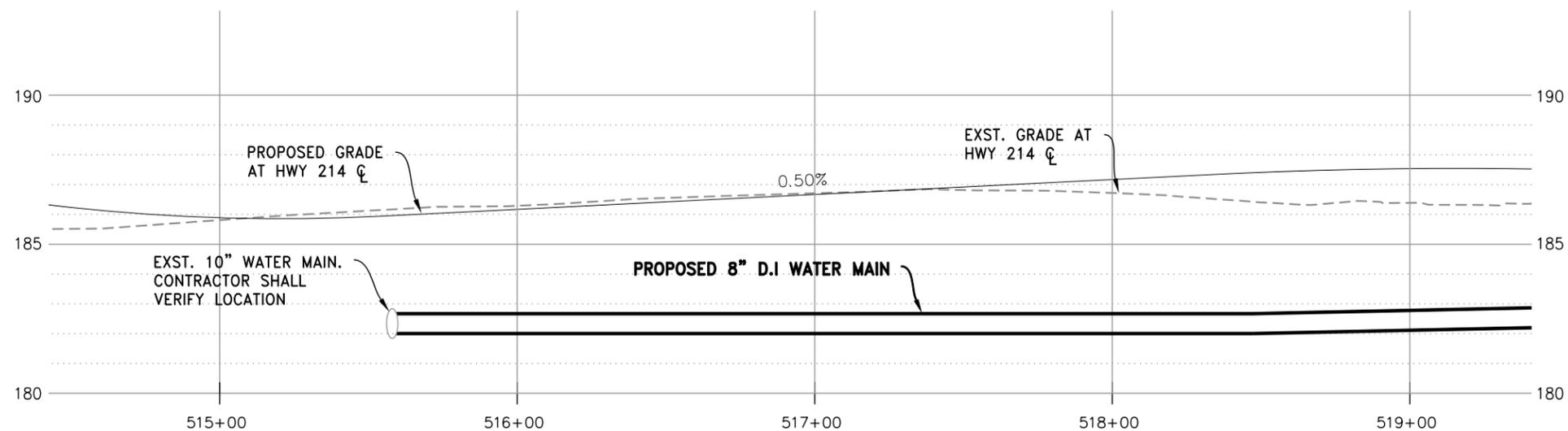
PLAN SHEET

PROJECT NO. 2012-023-12
DATE JAN. 2013
DWG NO. C-2
SHEET 4 OF 9



PLAN
1"=50'

- PLAN NOTES:**
1. INSTALL 8" D.I. CLASS 52 WATER MAIN WITH RESTRAINED MECHANICAL JOINTS, FIELD-LOCK GASKETS AND THRUST BLOCKS AS SPECIFIED. ALL FITTINGS SHALL BE RESTRAINED.
 2. MINIMUM 40LF RESTRAINED PIPE. ALL MECHANICAL JOINTS SHALL BE RESTRAINED WITH MEGALUG SERIES 1100, OR APPROVED EQUAL. USE FIELD LOCK GASKETS IN ALL PUSH-ON PIPE JOINTS A MINIMUM OF 40LF FROM FITTING.
 3. HOT TAP EXISTING 10" WATER MAIN WITH A 10" X 10" TAP AND 10" FLG X MJ GATE VALVE. SEE LIST OF APPROVED CITY OF WOODBURN CONTRACTORS. SEE DETAIL 1 ON DWG. D-1.
 4. INSTALL 8" D.I. 22-1/2' MJ BEND WITH RETAINER GLANDS AND THRUST BLOCKS, AS SPECIFIED. ALL FITTING SHALL BE RESTRAINED, SEE NOTE 2.
 5. INSTALL 10" X 6" MJ X FLG D.I. CLASS 52 "TEE". ALL FITTINGS SHALL BE RESTRAINED, SEE NOTE 2.
 6. INSTALL 10" D.I. CLASS 52 WATER MAIN WITH RESTRAINED MECHANICAL JOINTS, FIELD-LOCK GASKETS AND THRUST BLOCKS AS SPECIFIED. ALL FITTINGS SHALL BE RESTRAINED.
 7. INSTALL 10" X 12" FLG REDUCER. SEE NOTE 2.
 8. INSTALL 12" X 8" FLG REDUCER. SEE NOTE 2.
 9. INSTALL 8" FLG GATE VALVE. SEE NOTE 2.
 10. INSTALL FIRE HYDRANT ASSEMBLY. SEE DETAIL 5070-1 & 5050-2 ON DWG. D-3. ALL FITTINGS SHALL BE RESTRAINED.
 11. INSTALL 12" FLG "TEE". ALL FITTINGS SHALL BE RESTRAINED.
 12. INSTALL SAMPLING TAP ASSEMBLY. SEE DETAIL 5100-1 ON DWG. D-1.
 13. INSTALL 12" FLG GATE VALVE WITH A CAP. ALL FITTINGS SHALL BE RESTRAINED, SEE NOTE 2.



PROFILE

HORIZONTAL: 1"=50'
VERTICAL: 1"=5'

LEGEND (EXST. UTILITIES)

— STORM SEWER	— NW NATURAL GAS
— SANITARY SEWER	— WATER
— PGE	— SIGNAL (TRAFFIC)
— COMMUNICATIONS	

BID SET



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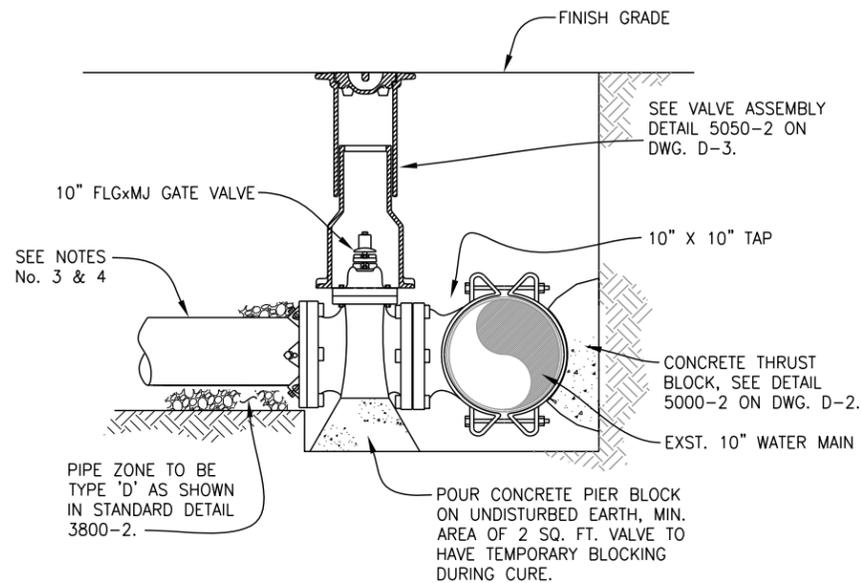
REVISIONS:

ADDENDUM 1	2-11-13
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UTILITY RELOCATION I-5 INTERCHANGE
WATERLINE RELOCATION AT EVERGREEN EXTENSION

PLAN SHEET

PROJECT NO. 2012-023-12
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DWG NO. C-3
SHEET 5 OF 9



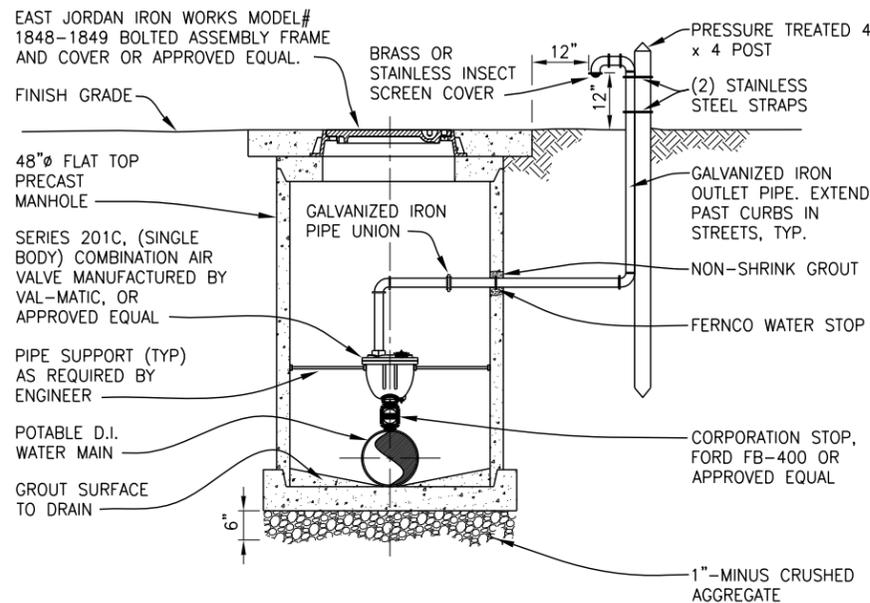
NOTES:

1. TAPS SHALL BE MADE BY APPROVED CITY OF WOODBURN CONTRACTOR. CONTACT CITY OF WOODBURN ENGINEER FOR APPROVED LIST.
2. ALL EXTERNAL BOLTS AND NUTS SHALL BE 304 STAINLESS STEEL OR ENTIRE VALVE SHALL BE WRAPPED TIGHTLY POLYETHYLENE FILM HELD SECURELY WITH ADHESIVE TAPE.
3. MINIMUM 40- FEET RESTRAINED PIPE LENGTH. ALL MECHANICAL JOINTS SHALL BE RESTRAINED WITH MEGALUG SERIES 1100, OR APPROVED EQUAL.
4. USE FIELD-LOCK GASKETS IN ALL PUSH-ON JOINTS A MIN. OF 40- FEET FROM GATE VALVE.

HOT TAP DETAIL

SCALE: NTS

1



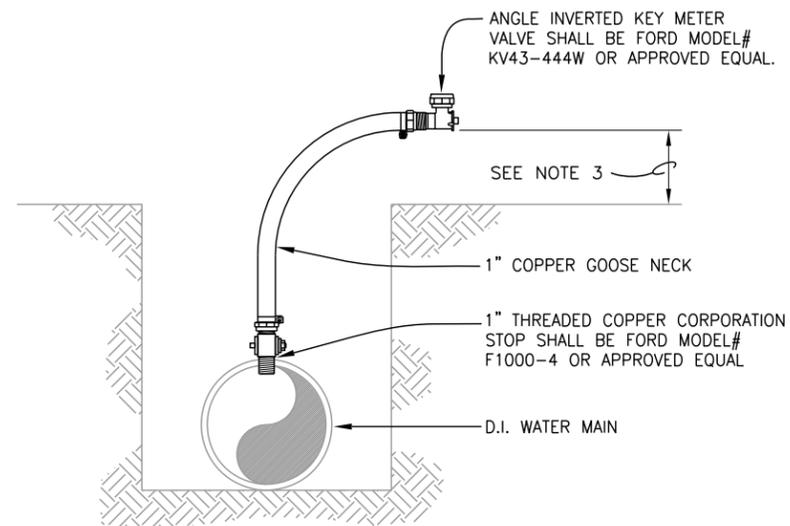
NOTES:

1. FOR WATER MAINS UP TO 12" DIA. USE 1-INCH COMBO AIR VALVE.
2. FOR WATER MAINS OVER 12" DIA. SIZE SHALL BE APPROVED BY ENGINEER.
3. VALVES: REFERENCE TECHNICAL SPEC. SECTION 5050.
4. GALVANIZED IRON PIPE OUTLET DIA. SAME SIZE AS VALVE INLET DIA.
5. LOCATION AND SIZE OF VALVES SHALL BE BY DESIGN OF THE ENGINEER.
6. CORPORATION STOPS OVER 1" DIA. SHALL BE SADDLE TAPPED.

WATER COMBINATION AIR RELEASE VALVE

SCALE: NTS

5050-3



NOTES:

1. SAMPLING TAPS SHALL USE STANDARD SERVICE TAPS IF AVAILABLE, OTHERWISE INSTALL THIS AT ENDS OF LINE OR AS DIRECTED BY THE ENGINEER.
2. SAMPLING TAP TO REMAIN AND BE REMOVED BY CITY.
3. BEYOND TRAVEL LANES EXTEND 18" MIN. ABOVE GRADE.
4. IF SADDLE IS REQUIRED BY ENGINEER, USE BRASS TYPE.

SAMPLING TAP ASSEMBLY

SCALE: NTS

5100-1

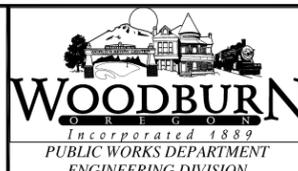
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REVISIONS:	
ADDENDUM 1	2-11-13

UTILITY RELOCATION I-5 INTERCHANGE
 WATERLINE RELOCATION AT EVERGREEN EXTENSION

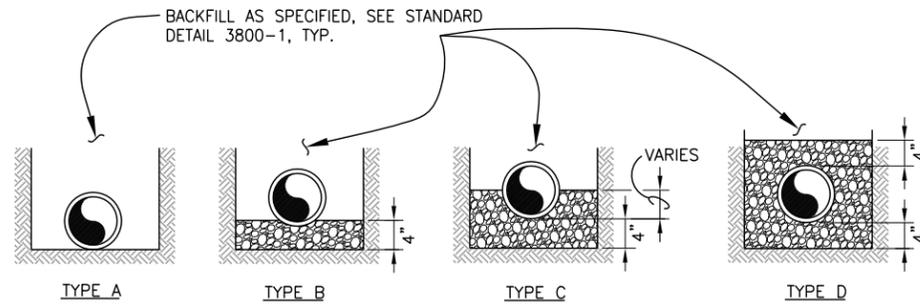
DETAILS

PROJECT NO.
2012-023-12

DATE
JAN. 2013

DWG NO.
D-1

SHEET
6 OF 9



- TYPE A - PLACE PIPE BARREL ON UNDISTURBED EARTH.
- TYPE B - SUPPORT PIPE ON 4" OF COMPACTED 1"-MINUS CRUSHED AGGREGATE.
- TYPE C - PIPE BEDDED WITH 1"-MINUS CRUSHED AGGREGATE FROM 4" BELOW INVERT TO SPRING LINE.
- TYPE D - PIPE BEDDED WITH 1"-MINUS CRUSHED AGGREGATE FROM 4" BELOW INVERT TO 4-INCHES ABOVE ZENITH.

LEGEND

- UNDISTURBED NATIVE SOIL
- 1"-MINUS CRUSHED AGGREGATE, COMPACTED 95 PCT. OF AASHTO T-99

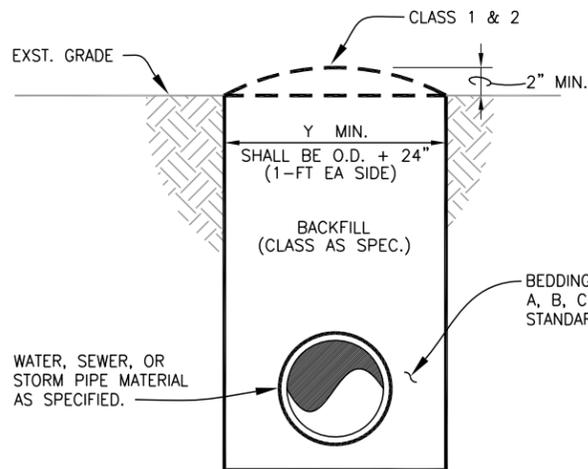
NOTES:

1. PIPE BEDDING AND ZONE MATERIAL AND EXECUTION OF PLACEMENT SHALL CONFORM TO CITY TECHNICAL SPECIFICATION SECTION 3800.

PIPE TRENCH BEDDING AND ZONE

3800-2

SCALE: NTS



- CLASS 1 BACKFILL: NATIVE OR COMMON MATERIAL WITH A 2" MIN. CROWN, COMPACTED TO 95% T-99.
- CLASS 2 BACKFILL: NATIVE OR COMMON MATERIAL COMPACTED IN 8" LIFTS, TO 95% T-180 W/ 2" MIN. CROWN.
- CLASS 3 BACKFILL: 1"-MINUS CRUSHED AGGREGATE, COMPACTED IN 8" LIFTS TO 95% AASHTO T-180.
- CLASS 4 BACKFILL: CONTROLLED DENSITY FILL (CDF).

NOTES:

1. ENGINEER WILL CONSIDER ADJUSTING USUAL TRENCH WIDTH TO ACCOMMODATE CONDITION ENCOUNTERED.
2. REFERENCE TECHNICAL SPECIFICATION SECTION 3800.

PIPE TRENCH BACKFILL

SCALE: NTS

3800-1

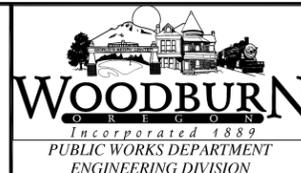
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REVISIONS:	
ADDENDUM 1	2-11-13

UTILITY RELOCATION 1-5 INTERCHANGE
 WATERLINE RELOCATION AT EVERGREEN EXTENSION

DETAILS

PROJECT NO. 2012-023-12

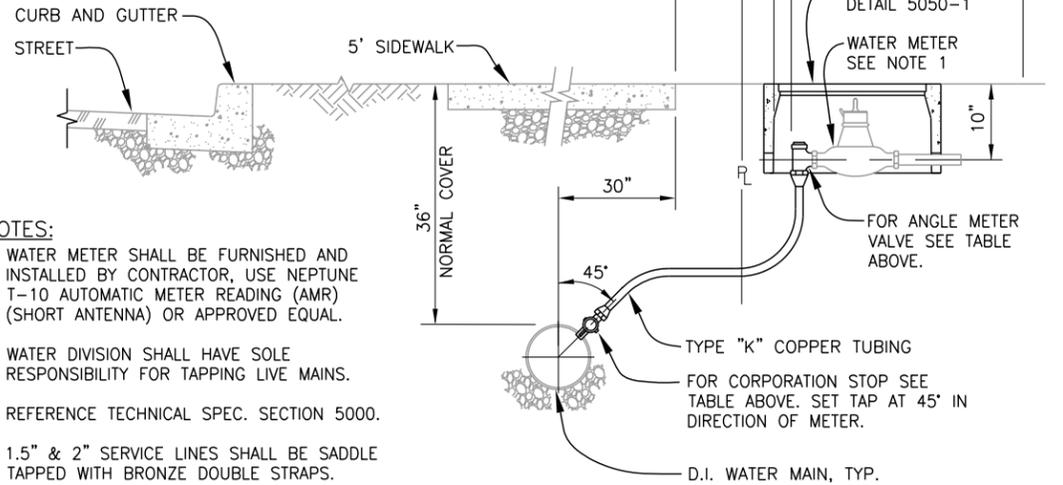
DATE JAN. 2013

DWG NO. D-2

SHEET 7 OF 9

FORD CO. MODEL		
	CORP STOP	ANGLE METER VALVE
DIA.		Model No.
1"	F1000-4* FB1000-4*	KV43-444W*
1.5"	FB500-6*	FV43-666W*
2"	FB500-7*	FV43-777W*

* OR APPROVED EQUAL



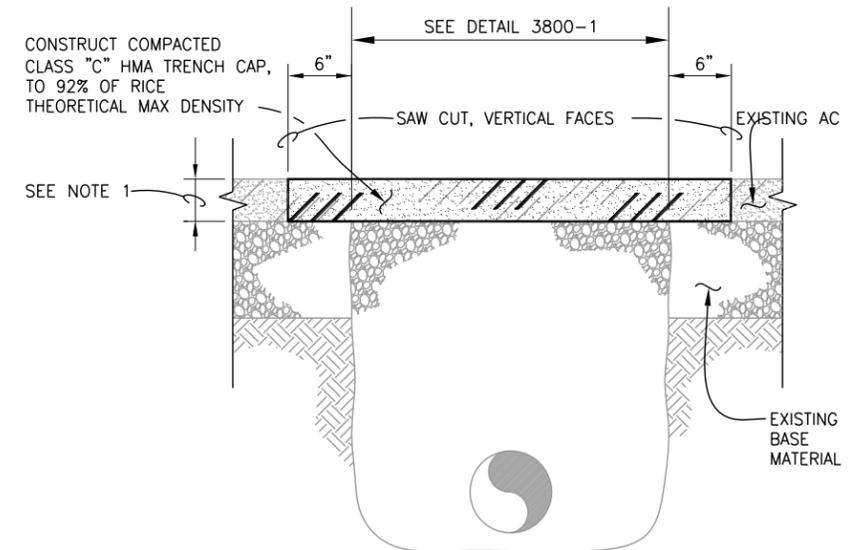
NOTES:

1. WATER METER SHALL BE FURNISHED AND INSTALLED BY CONTRACTOR, USE NEPTUNE T-10 AUTOMATIC METER READING (AMR) (SHORT ANTENNA) OR APPROVED EQUAL.
2. WATER DIVISION SHALL HAVE SOLE RESPONSIBILITY FOR TAPPING LIVE MAINS.
3. REFERENCE TECHNICAL SPEC. SECTION 5000.
4. 1.5" & 2" SERVICE LINES SHALL BE SADDLE TAPPED WITH BRONZE DOUBLE STRAPS.

WATER SERVICE CONNECTION

5000-4

SCALE: NTS



NOTES:

1. REPLACEMENT OF HMA SHALL WITH 2" DEPTH OR UNLESS OTHERWISE SPECIFIED.
2. REFERENCE TECHNICAL SPEC. SECTION 2400, 4200 AND 4220.

TRENCH CAP

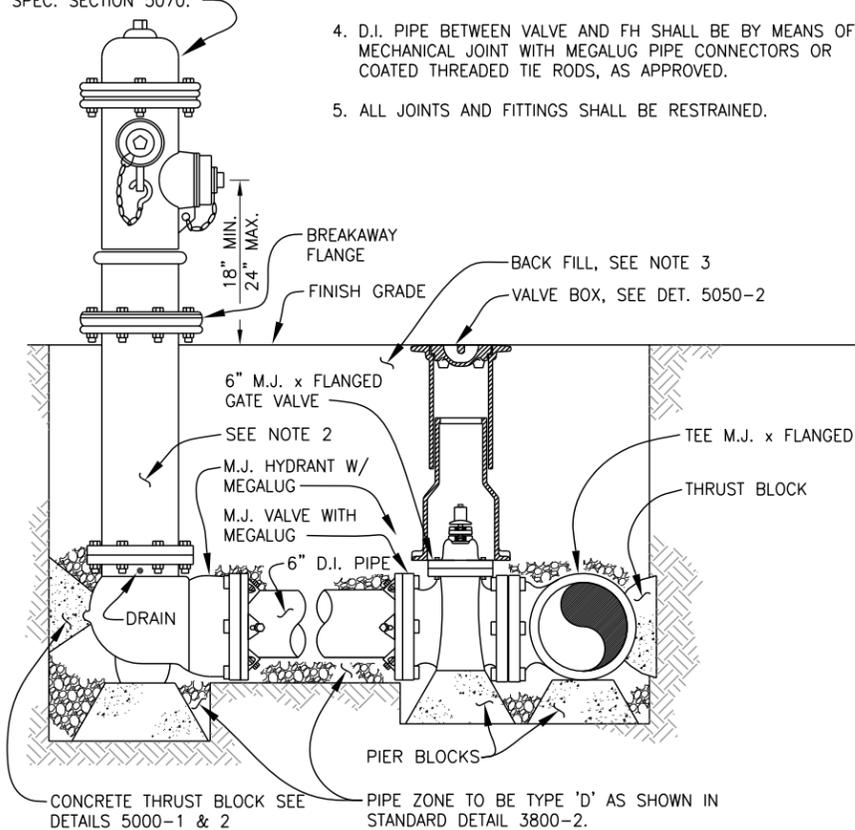
SCALE: NTS

3800-5

NOTES:

1. BED PIPE WITH 1"-MINUS SO AS TO CARRY LOAD OF PIPE EVENLY WITHOUT FIXING LOAD ON PIER BLOCKS DIG OUT BELOW BED FOR PIER BLOCKS, AS DIRECTED.
2. BURY HEIGHT: 3-1/2 TO 4 FEET. IF GREATER DEPTH IS REQUIRED EXTENSIONS SHALL BE USED TO ADJUST FH TO PROPER HEIGHT.
3. BACK FILL SHALL BE OF TYPE SPECIFIED.
4. D.I. PIPE BETWEEN VALVE AND FH SHALL BE BY MEANS OF MECHANICAL JOINT WITH MEGALUG PIPE CONNECTORS OR COATED THREADED TIE RODS, AS APPROVED.
5. ALL JOINTS AND FITTINGS SHALL BE RESTRAINED.

HYDRANT: MUELLER CENTURION A423 OR M & H RELIANT 929T. REFERENCE TECHNICAL SPEC. SECTION 5070.

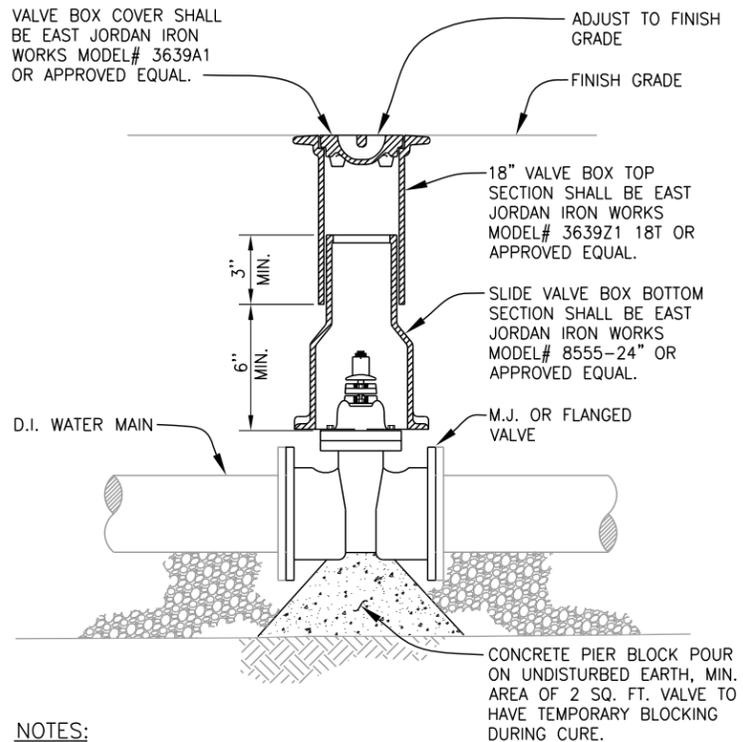


FIRE HYDRANT ASSEMBLY

5070-1

SCALE: NTS

VALVE BOX COVER SHALL BE EAST JORDAN IRON WORKS MODEL# 3639A1 OR APPROVED EQUAL.



NOTES:

1. REFERENCE TECHNICAL SPEC. SECTION 5050.
2. ALL JOINTS AND FITTINGS SHALL BE RESTRAINED.

VALVE ASSEMBLY

5050-2

SCALE: NTS

1. CONCRETE THRUST BLOCKING TO BE POURED AGAINST UNDISTURBED EARTH.
2. KEEP CONCRETE CLEAR OF JOINT AND ACCESSORIES. INSTALL IN ACCORDANCE TO TECHNICAL SPEC. SECTION 5000.

FITTING SIZE	BEARING AREA OF THRUST BLOCKS IN SQ. FT.						
	TEE, WYE PLUG OR CAP	90° BEND PLUGGED CROSS	TEE PLUGGED ON RUN		45° BEND	22.5° BEND	11.25° BEND
			A-1	A-2*			
4	1.0	1.4	1.9	1.4	1.0	--	--
6	2.1	3.0	4.3	3.0	1.6	1.0	--
8	3.8	5.3	7.6	5.4	2.9	1.5	1.0
10	5.9	8.4	11.8	8.4	4.6	2.4	1.2
12	8.5	12.0	17.0	12.0	6.6	3.4	1.7
14	11.5	16.3	23.0	16.3	8.9	4.6	2.3
16	15.0	21.3	30.0	21.3	11.6	6.0	3.0
18	19.0	27.0	38.0	27.0	14.6	7.6	3.8
20	23.5	33.3	47.0	33.3	18.1	9.4	4.7
24	34.0	48.0	68.0	48.0	26.2	13.6	6.8

3. BEARING AREAS SHOWN ARE BASED ON TEST PRESSURE OF 150 PSI. AND AN ALLOWABLE SOIL BEARING STRESS OF 2,000 POUNDS PER SQUARE FOOT. TO COMPUTE BEARING AREAS FOR DIFFERENT TEST PRESSURES AND SOIL BEARING STRESSES, USE THE FOLLOWING EQUATION: BEARING AREA = (TEST PRESSURE/150) X (2,000/SOIL BEARING STRESS) X (TABLE VALUE).
4. REFERENCE STANDARD DETAIL 5000-1.

*STRADDLE BLOCK SHALL MEET THIS TABLE.

HORIZONTAL THRUST BLOCK TABLE

5000-2

SCALE: NTS

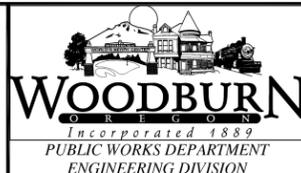
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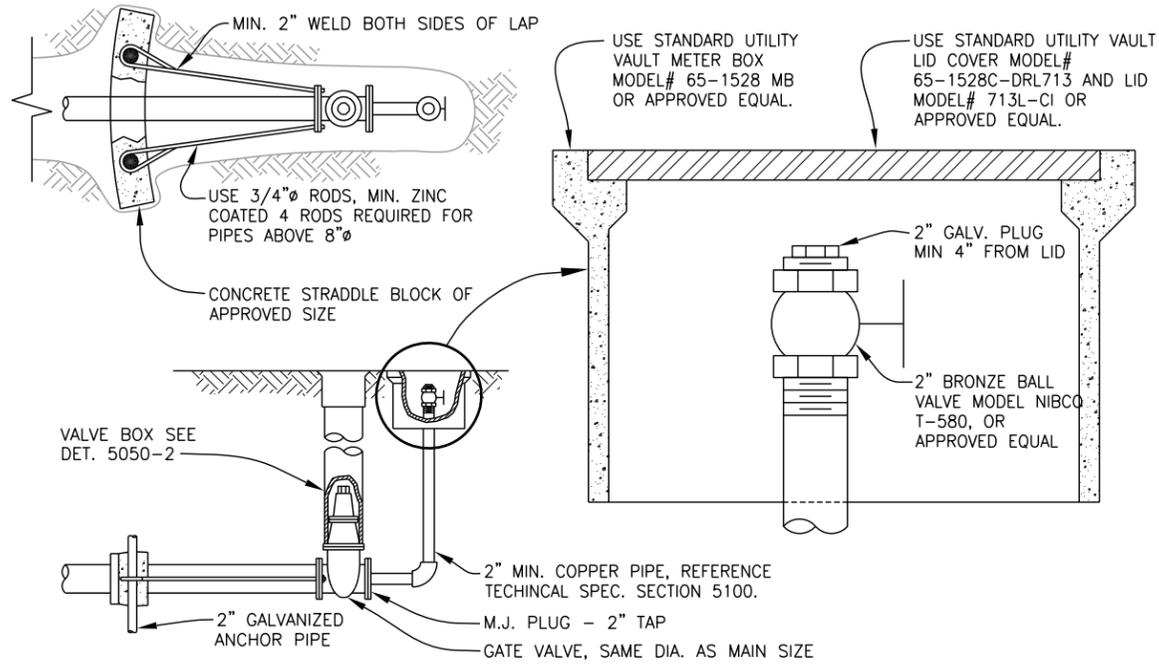


REVISIONS:	
ADDENDUM 1	2-11-13

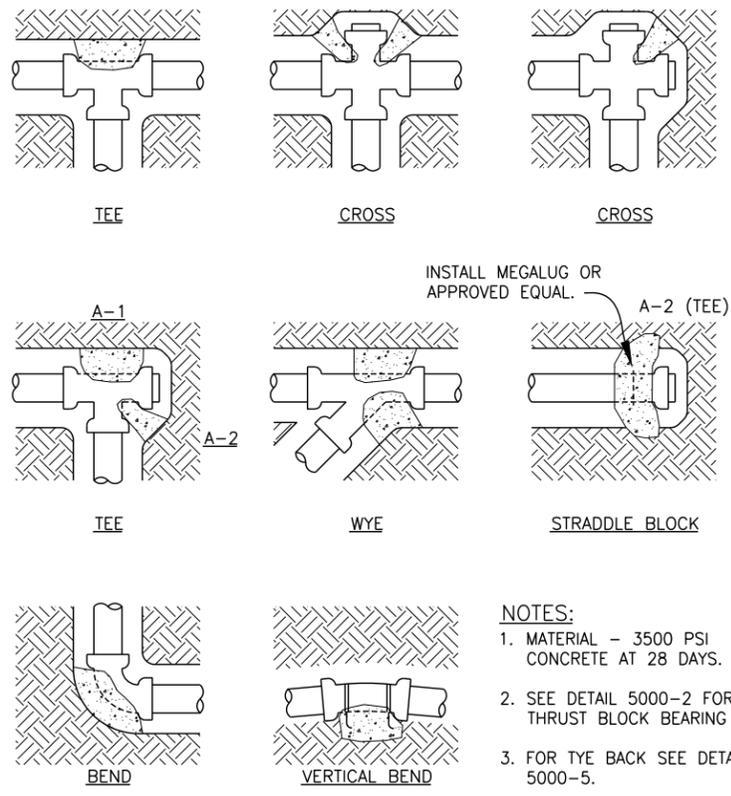
UTILITY RELOCATION I-5 INTERCHANGE
 WATERLINE RELOCATION AT EVERGREEN EXTENSION

DETAILS

PROJECT NO. 2012-023-12
DATE JAN. 2013
DWG NO. D-3
SHEET 8 OF 9

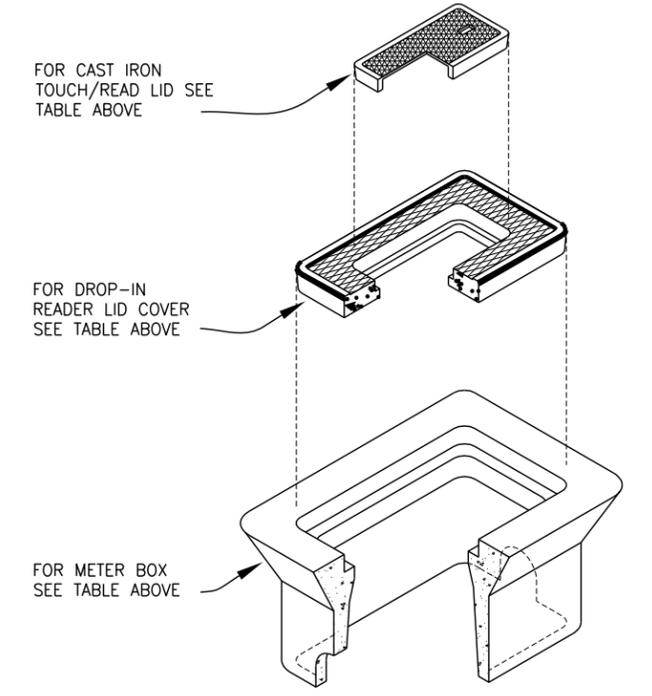


NOTES:
 1. SEE DETAIL 5000-1 AND 5000-2 FOR THRUST BLOCKING.
 2. FOR VALVES SEE TECHNICAL SPEC. SECTION 5050.



NOTES:
 1. MATERIAL - 3500 PSI CONCRETE AT 28 DAYS.
 2. SEE DETAIL 5000-2 FOR THRUST BLOCK BEARING AREAS.
 3. FOR TIE BACK SEE DETAIL 5000-5.

UTILITY VAULT CO.			
	CAST IRON READER LID	DROP-IN READER LID COVER	METER BOX
DIA.	MODEL NO.		
1"	511L-CI*	37-1220C-DRL511*	37-1220*
1.5" & 2"	713L-CI*	65-1528C-DRL713*	65-1528 MB*
* OR APPROVED EQUAL			



STANDARD BLOWOFF

SCALE: NTS

5000-5

THRUST BLOCKING

SCALE: NTS

5000-1

METER BOX

SCALE: NTS

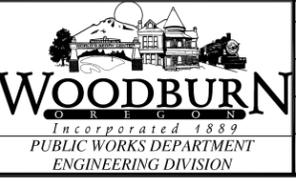
5050-1

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 0" 1"

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ADDENDUM 1	2-11-13

UTILITY RELOCATION 1-5 INTERCHANGE
 WATERLINE RELOCATION AT EVERGREEN EXTENSION

DETAILS

PROJECT NO. 2012-023-12
DATE JAN. 2013
DWG NO. D-4
SHEET 9 OF 9