

**City of Springfield
Development and Public Works Department**



Authorized by:

Title:

Date:

J. Rachel
City Engineer
7/18/16

July 18, 2016

**Addendum Number 1 to the Contract Documents for the
Invitation to Bid for P21106; Over/Under CMP Pipe Replacement**

The City of Springfield is amending the above mentioned Invitation to Bid issued on July 8, 2016. This Addendum is hereby made a part of the original contract documents to the same extent as though it were originally included therein.

- 1.) Special Provisions, Section B - Scope of Work - This document is deleted in its entirety and replaced with a revised version dated 07/18/16. All changes within the document are highlighted in yellow. See Attachment 1 to this Addendum.
- 2.) Drawing Sheet 2, General Construction Notes, M - Add the following: Concrete compressive strength requirements (PSI) for other structures are identified in the drawings.
- 3.) Drawing Sheet D-2 - Delete the following note: Concrete Foundation 2500 PSI. Replace it with the following note: Concrete Foundation 3000 PSI Commercial Grade Concrete. Delete the following note in the Footing Plan detail: 3500 PSI Conc. Replace it with the following: 3000 PSI Commercial Grade Concrete.
- 4.) Drawing Sheet D-4 - Delete the following notes: 2500 PSI Conc. Replace it with the following notes: 3300 PSI Concrete.
- 5.) Drawing Sheet D-6 - Delete note numbers 3 and 4.
- 6.) Drawing Sheet D-7 - Delete Drawing D-7 in its entirety.
- 7.) Drawing Sheet D-8 - Drawing D-8 is being replaced in its entirety with a revised version dated 07/18/16. See Attachment 2 to this Addendum.
- 8.) Drawing Sheet P-11 - Drawing P-11 is being replaced in its entirety with a revised version dated 07/18/16. See Attachment 3 to this Addendum.
- 9.) Drawing Sheets V-1, V-3, V-6 and V-8 - Delete the following Note: All Steel = 40 KSI Deformed. Replace it with the following: All Steel = 60 KSI Deformed.
- 10.) Drawing Sheet P-10 - In the drawing in the lower section of the sheet delete the following notes: Existing 36" CP and Install 36" Trash Rack. Replace the notes with the following: Existing 42" CP and Install 42" Trash Rack.

In the event that it is necessary to further amend, revise or supplement any part this Invitation to Bid additional addenda will be posted on the City's website at http://www.springfield-or.gov/dpw/P21106_Over_Under_CMP_Pipe_Replacement.htm.

The City shall make a reasonable effort to notify all individuals, firms, and corporations that have purchased a Bid Book and those individuals that attended a Pre-Bid meeting and provided a valid e-mail address on the sign-in sheet when addenda are issued. Failure of the Contractor to receive or obtain such addenda shall not excuse them from compliance, if they are awarded the Contract. The City is not responsible for any explanation, clarification, interpretation or approval made or given in any manner except by written addenda issued by City.

All Addenda issued are considered to be part of the specifications of the Invitation to Bid and, as such, are incorporated into the Contract as specified in Section 104.02 of the Standard Construction Specifications.

By signing below, I acknowledge the receipt of the following Addenda documents and certify that the specifications contained have been considered and incorporated into the bid as presented. No other terms or conditions of the Invitation to Bid are changed as a result of this addendum.

ALL BIDDERS MUST ACKNOWLEDGE THIS ADDENDUM BY SIGNING AND DATING THIS DOCUMENT AND INCLUDING IT AS PART OF THEIR SUBMITTAL PACKAGE.

Signature

Date

SPECIAL PROVISIONS

SECTION B – Scope of Work

P21106 – Over/Under CMP Pipe Replacement

B1. GENERAL

B1.1 Cooperation with Utilities

Contact SUB Electric Operations at 541-726-2395 at least 72 hours prior to any work or equipment encroaching within 20 feet of electrical lines.

Utility Contact Phone Number(s)

- | | |
|----------------------|---------------------|
| 1. SUB Water | 541-726-2396 |
| 2. SUB Electrical | 541-726-2395 |
| 3. Comcast | cell 541-228-1884 |
| 4. CenturyLink | 541-484-8560 |
| 5. Northwest Natural | 541-974-3724 (cell) |

B1.2 Construction Zone Work Hours

Unless otherwise directed by the Engineer, normal construction work zones with active project operations are to be conducted Monday through Friday. Work outside the hours of 7:00 am to 6:00 pm will require Council approval based on the City's noise ordinance.

B1.3 Prosecution and Progress

Project Work Schedules

Before starting work, the Contractor shall submit for written approval a proposed construction schedule to the Engineer. If it is desirable to carry on operations in more than one location simultaneously, a schedule shall be submitted for each location two weeks in advance of beginning such operations. In the event that the Contractor's proposed construction schedule does not meet the necessary construction program schedule as determined by Owner, the Contractor shall resubmit a schedule that conforms as approved.

The schedule shall show the proposed order of work and indicate the time required for completion of the major items of work. This working schedule shall take into account the passage or handling of traffic with the least practicable interference therewith and the orderly, timely and efficient prosecution of work. It will also be used as an indication of the sequence of the major construction operations and as a check on the progress of work, but does not become a part of the Contract.

If requested by the Engineer, the Contractor shall provide weekly progress schedules of expected project activities. The progress schedules shall indicate the Contractor's plan of prosecution of the work in sufficient detail to enable both the Contractor and the Engineer to plan, coordinate, appraise, document, and control their respective Contract responsibilities. The schedule of work, and the work forces and equipment supplied by the Contractor, shall be adjusted periodically as necessary to allow for the completion of the contract work by the stated contract completion date. Any work done without notification to the Engineer is subject to rejection.

B1.4 Private Property Condition Documentation and Homeowner Approval

The Contractor shall provide the Engineer with photographic documentation of pre-construction and post-construction conditions on all private properties affected by the Contractor's work. The Contractor shall provide digital photos of each area of work on private properties sufficient to document the conditions prior to the start of the Contractor's work and immediately after completion of the Contractor's work. All photos shall be submitted to the Engineer by line and street address in an organized manner on compact discs prior to the requesting that the final payment be made.

The Contractor shall obtain a written release from the property owner on the Homeowner Approval and Release Form included in this bid book confirming that the site restoration work is satisfactory to the property owner. The Contractor shall document that a minimum of two attempts were made to secure a release from each property owner by providing a list of property owners by address and indicating the dates and times of each attempt. This list and all signed Homeowner Approval and Release Forms shall be submitted to the Engineer prior to requesting that the final payment be made.

SECTION 00225 - WORK ZONE TRAFFIC CONTROL

Comply with Section 00225 of the Standard Specifications modified as follows:

00225.05(a) Agency or Contractor Traffic Control Plan - Delete the following:

In the paragraph beginning "If the Contractor will be using..." delete the word "stamped".

00225.90 Payment (b) Method "B" Lump Sum Basis

Bid Item 2, Temporary Work Zone Traffic Control - Complete, will be paid in accordance with the Standard Specifications.

SECTION 00240 - TEMPORARY DRAINAGE FACILITIES

Comply with Section 00240 of the Standard Specifications modified as follows:

00240.00 Scope - Add the following:

This work consists of the diversion of pipe outfall flow in the existing pipe. The diversion of water shall include, but is not limited to:

- 1) Installation and maintenance of a bypass pumping system during construction.
- 2) Installation of temporary pipe connections.
- 3) Protection of fresh concrete in vaults from flowing water. Expected flows are 250 gallons per minute or less during the dry season. No pumping will be allowed outside of work hours due to City noise ordinances.

At the commencement of, and during any suspension of work, the Contractor shall provide piping and other means necessary to maintain the flow of stormwater from the existing pipe and channel to the completed sections of new piping. Completed work shall be protected from stormwater runoff, erosion and mud tracking. The Contractor shall restore fencing or place temporary fencing, to include temporary security fencing, as needed to provide secure restraint for pets and to protect private property.

00240.90 Payment - Add the following:

Partial payment for this Lump Sum (LS) item will be made each pay period based on the percentage of work completed during the applicable period on the entire project.

SECTION 00280 - EROSION AND SEDIMENT CONTROL

Comply with Section 00280 of the Standard Specifications modified as follows:

00280.04 Erosion and Sediment Control Plan on Agency Controlled Lands - Delete the following:

The fifth paragraph which begins with "Ensure the Contractor's construction ESCP and implementation schedules are prepared by...."

00280.46(a) Construction Entrances - Delete this subsection, except for the number and title, and replace it with the following:

Construction Entrances shall be installed as shown on Sheet E2 of the plans.

00280.46(d) Inlet Protection - Add the following:

Inlet Protection shall be constructed as shown on Sheet E2 of the plans.

00280.90 Payment

Delete the following from the pay item list: (a) Erosion Control

Add the following to the pay item list:

<u>Pay Item</u>	<u>Unit of Measurement</u>
(a) Erosion Control Plan (Bid Item 4)	Lump Sum (LS)

Payment for Construction Entrance and Inlet Protection will be in accordance with the Standard Specifications.

SECTION 00310 - REMOVAL OF STRUCTURES AND OBSTRUCTIONS

Comply with Section 00310 of the Standard Specifications modified as follows:

00310.00 Scope - Add the following:

Bid Item 7, Removal of Structures and Obstructions, calls for the removal of structures as identified below:

RS#	Description	Estimated Quantity	Location
1	Headwall, grates, concrete channel	31 tons	750 Centennial
2	Wooden footbridge	70 ft^2	724 Centennial
3	Large deck, sidewalks, steel posts	890 ft^2	1255 7 th
4	Street section including pavement, 3 concrete stormwater pipes, curb, gutter and sidewalk (marked by City)	50 ft street section	7 th St.
5	Wooden bridge (heavy) with concrete and timber abutments and small deck	250 ft^2 and 6 tons concrete	1266 7 th
6	Concrete rubble stairs	2 tons	1266 7 th
7	Reinforced concrete retaining wall	18 tons	1266 7 th
8	Reinforced concrete and stone pool	18 tons	1266 7 th
9	Wooden bridge	230 ft^2	1275 6 th

10	Wooden bridge with timber abutments	384 ft ²	1380 6 th
11	Wooden deck with timber abutments	210 ft ²	1380 6 th
12	Wooden footbridge	28 ft ²	1357 5 th
13	Headwall, grates, concrete channel	35 tons	1357 5 th
14	Headwall	16 tons	1410 5 th

Note: Quantities shown are approximate. Concrete is estimated at 150 pounds per cubic foot.

Headwall structures (RS numbers 1, 13 and 14) are cast in place concrete with concrete rubble. It is not known if the concrete contains reinforcement. Headwall structures need to be removed without damage to the existing pipes which are to remain and be incorporated into the new vault structures.

Bid Item 34, Remove Guardrail, calls for removing thirteen (13) 14-foot long sections of Metal Beam Guard Rail from six locations identified below, and delivering the railing and posts to Springfield Operations yard at 201 South 18th Street, Springfield, Oregon. Metal Beam Guard Rail shall not be removed until it becomes necessary in order to perform the work in each location. Contractor will fill post holes with ¾" - 0 rock.

Locations: At Centennial Blvd, 7th Street, 6th Street and 5th Street where they intersect the channel.

00310.91 Lump Sum Basis (a)

Add the following pay item to the pay item list:

<u>Pay Item</u>	<u>Unit of Measurement</u>
(c) Remove Guardrail (Bid Item 34)	Lump Sum (LS)

SECTION 00320 - CLEARING AND GRUBBING

Comply with Section 00320 of the Standard Specifications modified as follows:

00320.80 Measurement - Add the following measurement to the measurement list:

Diameter Foot Basis – Under this method, removal of trees with a diameter of 12-inches or larger at chest height will be measured on a Diameter Foot (DF) basis.

00320.90 Payment - Add the following pay item to the pay item list:

<u>Pay Item</u>	<u>Unit of Measurement</u>
(a) Remove Trees 12-inch or Greater Diameter at Chest Height (Bid Item 9)	Diameter Foot (DF)

SECTION 00350 – GEOSYNTHETIC INSTALLATION

Comply with Section 00350 of the Standard Specifications modified as follows:

00350.00 Scope - Add the following:

Geotextile fabric will be placed transversely across 48-inch double-wall corrugated polyethylene storm sewer pipe to reduce buoyancy as shown on plans and also when placing Trench Foundation.

00350.10 Materials - Add the following:

Geotextile fabric will be nonwoven fabric with properties from Table 02320-4 Geotextile Property Values for Subgrade Geotextile (Separation) from the Standard Specifications Section 02320 - Geosynthetics.

00350.90 Payment - Delete this subsection, except for the number and title, and replace it with the following:

No separate or additional payment will be made for Geosynthetic Installation. Payment for geotextile fabric is incidental to Bid Item 22, 48-inch Type S Double Wall Corrugated HDPE Storm Sewer Pipe, 10-Foot Depth and Bid Item 11, Trench Foundation - Below Grade.

SECTION 00390 - RIPRAP PROTECTION

Comply with Section 00390 of the Standard Specifications modified as follows:

00390.80 Measurement (c) Riprap -

Loose Riprap Class 100, Bid Item 10, will be measured on a weight basis.

00390.90 Payment - Add the following pay item to the pay item list:

<u>Pay Item</u>	<u>Unit of Measurement</u>
(c) Loose Riprap, Class 100 (Bid Item 10)	TON

SECTION 00405 – TRENCH EXCAVATION, BEDDING AND BACKFILL

Comply with Section 00405 of the Standard Specifications modified as follows:

00405.11 Trench Foundation – Delete the following:

- Selected general backfill conforming to 00330.13.
- Selected granular backfill conforming to 00330.14.
- Selected stone backfill conforming to 00330.15.
- Other approved material.

Replace it with the following:

- Commercially available ¾" – 0 aggregate
- Commercially available 1 ½" - 0 aggregate

00405.12 Bedding - Delete the following:

- 3/8" - 0 PCC fine aggregate conforming to 02690.30(h).
- Commercially available ¾" - 0 aggregate.
- No. 10 – 0 sand drainage blanket material conforming to 00360.10.
- Reasonable well graded, from maximum size to dust, sand with 100 percent passing the 3/8-inch sieve.
- Commercially available 3/8"- 0 or No. 10 - 0 sand.
- A continuous cradle of concrete conforming to Section 00440. Acceptance of the concrete will be by visual inspection.

Replace it with the following:

- Commercially available ¾" - 0 or 1 ½" - 0 aggregate
- Commercially available ¾" or 1 ½" - open graded aggregate

00405.13 Pipe Zone Material - Delete this subsection, except for the number and title, and replace it with the following:

For all pipes, backfill the pipe zone with commercially available ¾" - 0 crushed aggregate. Labor and pipe zone material are incidental to the pipe work.

00405.14 Trench Backfill (b) Class B Backfill - Delete the following:

Designated size shall be 1" - 0 or ¾" - 0.

Replace it with the following:

Class B Backfill (¾" - 0) shall be used for trench backfill on all pipe work and vaults and outfall and shall be incidental to Bid Items 14, 18, 20, 22, 23 and 28. Backfill on 48-inch double-wall corrugated polyethylene storm sewer pipe will be that area of the pipe zone to a thickness of 1 foot above the top outside of the pipe, level to the side of the channel. For other pipe and concrete structures, backfill will come to within 6 inches of the top of the trench, compacted, except under City streets where Controlled Low Strength Material will be used (Bid Item 13).

Labor and backfill material are incidental to the pipe work.

00405.82 Trench Foundation Weight Basis - Delete the following:

In the second sentence delete "from scales meeting the requirements of Section 00190."

00405.90 Payment (c) per Ton Basis

Payment for Trench Foundation - Below Grade, Bid Item 11, will be in accordance with the Standard Specifications.

Bedding, pipe zone material and backfill are incidental to the pipe work.

SECTION 00420 – SALVAGING PIPE

Comply with Section 00420 of the Standard Specifications modified as follows:

00420.00 Scope - Add the following:

This item calls for the removal of four (4) 24-inch corrugated steel pipes, 20 feet long, located at station 0 + 76. The Contractor will remove the pipes and deliver them to Springfield Operations yard at 201 South 18th Street, Springfield, Oregon.

00420.80 Measurement - Delete this subsection, except for the number and title, and replace it with the following:

No measurement of quantities will be made for Salvaged 24-inch CSP.

00420.90 Payment - Add the following pay item to the pay item list:

<u>Pay Item</u>	<u>Unit of Measurement</u>
(c) Salvaged 24-inch CSP (Bid Item 12)	Lump Sum (LS)

SECTION 00442 – CONTROLLED LOW STRENGTH MATERIALS

Comply with Section 00442 of the Standard Specifications modified as follows:

00442.00 Scope - Add the following:

Controlled Low Strength Materials will be used for the top 2 feet of backfill below asphalt pavement in the paved section of 7th Street. This item will be paid separate from other items.

00442.80 Measurement - Delete this subsection, except for the number and title, and replace it with the following:

Controlled Low Strength Materials will be measured on a Cubic Yard (CY) basis.

00442.90 Payment - Delete this subsection, except for the number and title, and replace it with the following:

Add the following pay item to the pay item list:

<u>Pay Item</u>	<u>Unit of Measurement</u>
Controlled Low Strength Materials (Bid Item 13)	Cubic Yard (CY)

SECTION 00445 - SANITARY, STORM, CULVERT, SIPHON, AND IRRIGATION PIPE

Comply with Section 00445 of the Standard Specifications modified as follows:

00445.00 Scope - Add the following:

8-inch sanitary, 10-inch storm, 12-inch storm and double 48-inch double-wall corrugated polyethylene storm sewer pipe work includes excavation, removal of old pipe, and furnishing and placing bedding, pipe, pipe zone and other backfill and geotextile fabric as shown on Plans and Standard Drawings. Dewatering is considered incidental to all pipe work.

8-Inch ASTM 3034 PVC Sanitary Sewer Pipe, 10 Foot Depth (Bid Item 14)

Bid Item 14 calls for a new 8-inch ASTM 3034 stub out sanitary sewer from existing manhole to service the future Hamlin School as shown on Sheet P-9. The line is approximately 7 feet deep, 32 feet long, and has an 8-inch boot prepared for this connection at the manhole. At the west end, Contractor will place an 8-inch two-way cleanout to grade with removable cap. Class B backfill (3/4" - 0) and bedding will be included in the per Foot (FT) price for this item. Topsoil and seeding will be paid for under Bid Items 36, 37 and 38.

This Bid Item also pays for 8-inch ASTM 3034 PVC pipe used in restoring the depressed sewer at stations 5+69 and 9+78 if needed.

8-Inch Sanitary Sewer Cleanout (Bid Item 15)

Bid Item 15 calls for providing and connecting an 8-inch cleanout and cap as shown in the detail on Sheet D-8, for placement at the west end of the 8-inch service for the new school as shown on Sheet P-9.

Connect 8-Inch Sanitary Sewer (Bid Item 16)

Bid Item 16 calls for connecting the 8-inch school sewer stubout to the existing manhole as shown on Sheet P-9. The manhole has an opening and boot for this connection.

Reconnect 8-Inch Depressed Sanitary Sewer (Bid Item 17)

Bid Item 17 calls for reconnecting two 8-inch sewer lines where they cross under the double 48-inch line at stations 5+69 and 9+78. The two 8-inch sewer lines were recently rehabilitated using trenchless technologies and it is not known if the depressed portion of the sewer lines gives wide enough clearance for the installation of the two new 48-inch double-wall corrugated polyethylene storm sewer pipe lines.

At the station 5+69 location the connection to the 8-inch CIPP line will be made with flexible connectors (Fernco type) bedded in concrete. At the station 9+78 location connections will be made with 8-inch, rigid, DR 17 HDPE to 8-inch 3034 PVC pipe couplers.

This Bid Item pays for two connections to the existing 8-inch pipe in each location and all 8-inch fittings needed to form the depressed sewer and to connect it. Length of 8-inch PVC pipe, excavation and backfill will be paid by the per Foot (FT) price of 8-inch PVC pipe on Bid Item 14.

10-inch ASTM 3034 PVC Storm Sewer Pipe, 5 Foot Depth (Bid Item 18)

Bid Item 18 pays for 10-inch ASTM 3034 PVC pipe needed to connect existing stormwater pipes to the 48-inch main pipes. Per Foot (FT) price includes pipe, excavation, bedding and backfill.

Connect 10-inch Storm Pipe (Bid Item 19)

Bid Item 19 pays for making the connections and providing the fittings needed to connect 10-inch PVC storm pipe from the existing storm pipe, manhole, and new inlets, to the main 48-inch double-wall corrugated polyethylene storm sewer pipes. Fittings include couplings for existing pipe, 10-inch bell-end Inserta-TEE or equivalent connectors to the 48-inch double-wall corrugated polyethylene storm sewer pipe, and other 10-inch PVC fittings needed to align pipe.

12-inch ASTM 3034 PVC Storm Sewer Pipe, 5 Foot Depth (Bid Item 20)

Bid Item 20 pays for 12-inch ASTM 3034 PVC pipe needed to connect the existing concrete stormwater pipe at station 0+17 to the new concrete vault. Per Foot (FT) price includes pipe, excavation, bedding and backfill.

Connect 12-inch Storm Pipe (Bid Item 21)

Bid Item 21 pays for making the connections and the fittings needed to connect the existing 12-inch concrete storm pipe to the vault at station 0+18.

48-inch Type S Double Wall Corrugated HDPE Storm Sewer Pipe, 10 Foot Depth (Bid Item 22)

Bid Item 22 pays for the 48-inch double-wall corrugated polyethylene storm sewer pipe, AASHTO M294, fused elbows and fused risers, in place as shown on the plan sheets. Per Foot (FT) price includes two (2) pipes, fused elbows and risers as shown on the plans, tone wire, subgrade reinforcement fabric, excavation, bedding and compacted backfill to 12 inches above the outside top of the pipe as shown on the plans.

48-inch CL-3 ASTM C 76 Reinforced Concrete Pipe, 8-Foot Length (Bid Item 23)

Bid Item 23 pays for 8 feet of 48-inch CL-3 (ASTM C 76) reinforced concrete pipe placed at station 12+42 as shown on plans. Lump Sum (LS) price includes pipe, excavation, bedding and backfill.

00445.11 Materials - Add the following to the materials list:

- h) 8-inch sanitary, 10-inch storm, 12-inch storm pipe will be ASTM D3034 PVC (polyvinyl chloride) pipe and fittings.

- i) 48-inch storm pipe will be water-tight, Type S double-wall corrugated HDPE (high density polyethylene) pipe.
- j) 48-inch concrete pipe will be CL-3 reinforced concrete pipe.
- k) Subgrade enhancement geotextile (Type 1)
- l) Pipe bedding, pipe zone and backfill material (3/4" – 0 aggregate, crushed)

00445.91 Payment - Add the following pay items to the pay item list:

<u>Pay Item</u>	<u>Unit of Measurement</u>
(a) 8-inch ASTM 3034 PVC Sanitary Sewer Pipe, 10 Foot Depth (Bid Item 14)	Foot (FT)
(a1) 10-inch ASTM 3034 PVC Storm Sewer Pipe, 5 Foot Depth (Bid Item 18)	Foot (FT)
(a2) Two (2), 48-inch Type S Double Wall Corrugated HDPE Storm Sewer Pipe, 10 Foot Depth (Bid Item 22)	Foot (FT)
(b) 12-inch ASTM 3034 PVC Storm Sewer Pipe, 5 Foot Depth (Bid Item 20)	Foot (FT)
(b1) 48-inch CL-3 ASTM C 76 Reinforced Concrete Pipe (Bid Item 23)	Lump Sum (LS)
(m) 8-inch Sanitary Sewer Cleanout (Bid Item 15)	Each (EA)
(n) Connect 8-Inch Sanitary Sewer (Bid Item 16)	Each (EA)
(o) Reconnect 8-inch Depressed Sanitary Sewer (Bid Item 17)	Each (EA)
(p) Connect 10-inch Storm Pipe (Bid Item 19)	Each (EA)
(q) Connect 12-inch Storm Pipe (Bid Item 21)	Each (EA)

SECTION 00470 – MANHOLES, CATCH BASINS, AND INLETS

Comply with Section 00470 of the Standard Specifications modified as follows:

00470.00 Scope - Add the following:

A Trash Rack will be constructed according to Standard City Drawing 4-18 and added to the existing concrete pipe inlet at station 14 + 54.

Add the following to the Materials section:

00470.18 Trash Rack

Furnish and place a Trash Rack as shown on Sheet V14 of the plans and Standard City Drawing 4-18.

00470.90 Payment - Make the additions and deletions as specified below.

Add the following pay items to the pay item list:

<u>Pay Item</u>	<u>Unit of Measurement</u>
(d) Concrete Inlets, Type 2 1/2A (Bid Item 24)	Each (EA)
(l) Trash Rack (Bid Item 25)	Each (EA)

Add the following:

Pipe Connections - Connections and pipe for connecting 10-inch stormwater pipe to manhole and to 48-inch double-wall corrugated polyethylene storm sewer pipe will be paid under Bid Items 18 and 19.

SECTION 00530 – STEEL REINFORCEMENT FOR CONCRETE

00530.80 Measurement - Delete this subsection, except for the number and title, and replace it with the following:

No measurement will be made for this subsection.

00530.90 Payment - Delete this subsection, except for the number and title, and replace it with the following:

Furnishing and placement of reinforcing bar will be incidental to the structures built for this project and will be paid for in the following bid items:

Bid Item 27, General Structural Concrete, Class 3300 Grate Pads
Bid Item 28, General Structural Concrete, Class 4000, Vaults, Outfall

SECTION 00540 – STRUCTURAL CONCRETE

Comply with Section 00540 of the Standard Specifications modified as follows:

00540.00 Scope - Add the following:

General Structural Concrete, Class 3300 Grate Pads (Bid Item 27)

Bid Item 27 will consist of the construction of six (6), slab-on-grade, reinforced concrete grate pads as shown on the plans. Rebar will be grade 60 and concrete Class 3300. Grates consist of cast iron manhole rings placed integrally with concrete and matched to the HDPE risers, and cast iron grates matched to the rings. If grate weighs less than 165 pounds, grate will include bolting mechanism. Each slab will contain two (2) grates as shown on plans. Top of each slab will be level and 18 inches above the top of pipe. **Furnishing and placement of reinforcing bar, manhole rings and grates will be incidental to this bid item.**

General Structural Concrete, Class 4000, Vaults, Outfall (Bid Item 28)

Bid Item 28 pays for the construction of four (4) drainage structures, (three (3) vaults and one (1) outfall) with headwall and wings as shown on the plans. Rebar will be grade 60 and concrete Class 4000. For each structure, Contractor will excavate two feet below flow line elevation and place one foot of compacted $\frac{3}{4}$ " – 0 rock base. After concrete is placed and cured, structures will be backfilled with $\frac{3}{4}$ " – 0 rock. All excavation, base rock and backfill will be incidental to the Lump Sum (LS) unit price for all vault and outfall structures. **Furnishing and placement of reinforcing bar in all concrete structures and removable grates at headwall will be incidental to this bid item.**

Precast Concrete Vault Lid Sections (Bid Item 29)

Contractor will furnish and place six (6) precast, traffic rated vault lid sections with integral manhole ring and lid in each section as shown in the plans.

00540.16 Quality Control - Delete this subsection, except for the number and title, and replace it with the following:

Refer to City of Springfield Standard Specifications, Section 106 Control of Materials.

00540.17 Acceptance of Concrete - Delete the first sentence of this subsection and replace it with the following:

Acceptance of concrete will be according to Section 106 of the Springfield Standard Specifications and the

following:

00540.80 Measurement (a) Concrete - Add the following:

(3) Each - Under this method, General Structural Concrete, Class 3300, Grate Pads and Precast Concrete Vault Lid Sections will be measured on a unit basis.

00540.90 Payment - Add the following pay items to the pay item list:

<u>Pay Item</u>	<u>Unit of Measurement</u>
(c) General Structural Concrete, Class 4000, Vaults, Outfall (Bid Item 28)	Lump Sum (LS)
(c1) General Structural Concrete, Class 3300, Grate Pads (Bid Item 27)	Each (EA)
(e) Precast Concrete Vault Lid Sections (Bid Item 29)	Each (EA)

SECTION 00641 – AGGREGATE SUBBASE, BASE, AND SHOULDERS

Comply with Section 00641 of the Standard Specifications modified as follows:

00641.00 Scope - Add the following:

Bid Item 30, ¾" – 0 Aggregate Base, is to be used for driveways which cross the 48-inch type S double wall corrugated HDPE storm sewer pipe and in other designated areas in lieu of topsoil. Aggregate base used for bedding and backfill is contained in pipe items.

00641.15 Quality Control - Delete this subsection, except for the number and title, and replace it with the following:

Refer to City of Springfield Standard Specifications, Section 106 Control of Materials.

00641.16 Acceptance of Aggregates - Delete this subsection, except for the number and title, and replace it with the following:

Refer to City of Springfield Standard Specifications, Section 106 Control of Materials.

00641.90 Payment - Add the following pay items to the pay item list:

<u>Pay Item</u>	<u>Unit of Measurement</u>
(c) ¾ inch -0 Aggregate Base (Bid Item 30)	TON

SECTION 00744 – ASPHALT CONCRETE PAVEMENT

Comply with Section 00744 of the Standard Specifications modified as follows:

00744.00 Scope - Add the following:

Bid Item 31, Level 3, ½ inch Dense ACP consists of replacing the ACP removed on 7th Street for placement of pipe. Hot Mix ACP will be used.

00744.90 Payment - Add the following:

"Level 3, ½ inch Dense ACP"

SECTION 00759 – MISCELLANEOUS PORTLAND CONCRETE STRUCTURES

Comply with Section 00759 of the Standard Specifications modified as follows:

00759.00 Scope - Add the following:

Bid Item 32, Concrete Curb and Gutter, will include concrete curb and gutter as shown in Standard City Drawing 3-5 and as matches existing curb and gutter.

00759.90 Payment - Add the following pay items to the pay item list:

<u>Pay Item</u>	<u>Unit of Measurement</u>
(g) 4-inch Concrete Surfacing (Bid Item 33)	Square Foot (SF)
(l) Concrete Curb and Gutter (Bid Item 32)	Foot (FT)

SECTION 00815 - BOLLARDS

Comply with Section 00815 of the Standard Specifications modified as follows:

00815.00 Scope - Add the following:

Collapsible Bollards and Bases – (Bid Item 35)

Bid Item 35, Collapsible Bollards and Bases, includes six (6) hinged bollards as shown on sheet P6 and the details shown on sheet D2. Lump Sum (LS) price includes all excavation, concrete, reinforcement, backfill and steel bollards and parts as shown on the plans.

00815.80 Measurement - Delete this subsection, except for the number and title, and replace it with the following:

Lump Sum - Under this method, no measurement will be made.

00815.90 Payment – Add the following pay item to the pay item list:

<u>Pay Item</u>	<u>Unit of Measurement</u>
(c) Collapsible Bollards and Bases (Bid Item 35)	Lump Sum (LS)

SECTION 01030 – SEEDING

Comply with Section 01030 of the Standard Specifications modified as follows:

01030.13 (f) Types of Seed Mixes - Lawn Seeding - Add the following:

The seed mix for surface restoration of the Over/Under Channel shall be a 3-Way Perennial Rye blend. Seeding shall be performed by hydroseeding with the appropriate binders and tackifiers. Submit supplier information for approval prior to application.

01030.90 Payment (k) Lawn Seeding - Add the following:

Payment for Lawn Seeding (Bid Item 36) shall be on a Square Yard (SY) basis, complete in place.

SECTION 01040 – PLANTING

Comply with Section 01040 of the Standard Specifications modified as follows:

01040 - Scope - Add the following:

Topsoil for restoration after pipework shall be furnished, placed and compacted to grade in preparation for hydroseeding lawn. Topsoil will be paid as two separate items, Topsoil - Furnish (Bid Item 37) and Topsoil - Place (Bid Item 38). Plant Materials for this project shall be Red Twig Dogwood (Cornus Seicea) 2-Gallon (Bid Item 39).

Materials - Delete sections 01040.10 through 01040.13, sections 01040.15 through 01040.18, and sections 01040.20 through 01040.23.

01040.14 - Topsoil - Delete this subsection, except for the number and title, and replace it with the following:

Topsoil - Furnish (Bid Item 37)

Bid Item 37, Topsoil - Furnish, pays for topsoil delivered to the jobsite. Topsoil shall be a mixture of river sand, sandy loam and compost in roughly equal proportions (Rexius Pro Mix or approved equal).

01040.19 - Plants - Delete subsections 01040.19 (a), (c), (e), (g).

Add the following:

01040.19(i) - Red Twig Dogwood (Cornus Seicea) 2-Gallon Container (Bid Item 39)

Plant material shall be native Red Twig Dogwood (Cornus Seicea) 2-Gallon container. Plant material should be in good condition and ready to be transplanted.

Construction - Delete subsections 01040.40 through 01040.48 and 01040.50 through 01040.56.

01040.49 - General Planting - Delete this subsection, except for the number and title, and replace it with the following:

Contractor shall dig a hole twice the size of the container and place each dogwood plant root section level with the surrounding ground. Dogwood plants shall be placed as shown on the plans to form a staggered hedgerow from the edge of the emergency crossing to the Right-of-Way line.

Add the following subsection:

01040.57 - Topsoil - Placement (Bid Item 38)

Bid Item 38, Topsoil - Placement, pays for grading and compacting the topsoil at the jobsite. The centerline of the 48-inch double-wall corrugated polyethylene storm sewer pipe shall be graded to an elevation of 5.75 feet above the flowlines of the double pipe. The topsoil shall slope up to existing grade at each side to form a gentle swale as shown on sheet P11 of the Plans. Compaction of topsoil shall be sufficient to prevent any settlement during the first year of grass growth.

01040.80 Measurement (b) Topsoil and Wetland Topsoil- Delete this sub-section and replace it with the following:

01040.80 Measurement (b) Topsoil - Furnish

Topsoil furnished will be measured by the ton based on truck scale tags.

01040.80 Measurement (b1) Topsoil - Placement

The total topsoil placement area will be measured on the area basis, along ground surface.

01040.90 Payment (b) Topsoil and Wetland Topsoil - Delete this sub-section and replace it with the following:

01040.90 Payment (b) Topsoil - Furnish

Topsoil - Furnish will be paid based on truck scale tags.

01040.90 Payment (b1) Topsoil - Placement

Topsoil - Placement will be paid at the Contract unit price per Square Yard (SY). No payment will be made for topsoil that is placed in non-designated areas or which is contrary to the Agency's instructions.

Add the following pay items to the pay item list:

<u>Pay Item</u>	<u>Unit of Measurement</u>
Topsoil, Furnish (Bid Item 37)	TON
Topsoil - Placement (Bid Item 38)	Square Yard (SY)

01040.90 Payment (d) Plant Materials - Delete the following:

Starting at the paragraph beginning "Partial payments for plant materials..." and continuing through the final paragraph ending with "payment will be made according to 00195.60."

1040.90 Payment (g) Miscellaneous - Add the following pay item to the pay item list:

<u>Pay Item</u>	<u>Unit of Measurement</u>
(f) Red Twig Dogwood (Cornus Seicea) 2-Gallon Container (Bid Item 39)	Each (EA)

SECTION 01050 - FENCES

Comply with Section 01050 of the Standard Specifications modified as follows:

01050.00 Scope - Add the following:

Wooden and chain link fences will be removed and replaced as needed to perform the pipework and as directed. In the event the Contractor suspends work due to weather or for any other reason, Contractor will rebuild open sections of fencing to City's satisfaction prior to the suspension being issued. Temporary fencing for the protection of property is incidental to the work and will be the responsibility of the Contractor.

Removing and Rebuilding Fence - Chain Link (Bid Item 40)

Bid Item 40, , pays for the removal and reconstruction of 6 foot tall chain link fencing as needed to construct the project or as directed by the Engineer. Fencing fabric in good condition may be re-used.

Removing and Rebuilding Fence - Wood (Bid Item 41)

Bid Item 41, Removing and Rebuilding Fence - Wood, pays for the removal and reconstruction of 6 foot tall wood fencing as needed to construct the project or as directed by the Engineer.

01050.10 Materials - Add the following:

Wood Fence - Materials for wood fence construction shall match existing on-site materials or the following as directed by the Engineer:

- 1) Posts - Pressure treated 4" x 4" Douglas Fir, of standard or better grade, set in concrete
- 2) Rails - Pressure treated 2" x 4" Douglas Fir, of standard or better grade
- 3) Slats - 1" x 6" Western Red Cedar, #1 grade or better
- 4) Fence Clips - 28 gauge galvanized
- 5) Nails - #6 galvanized box
- 6) Concrete - Commercial Grade Concrete (Section 00440)

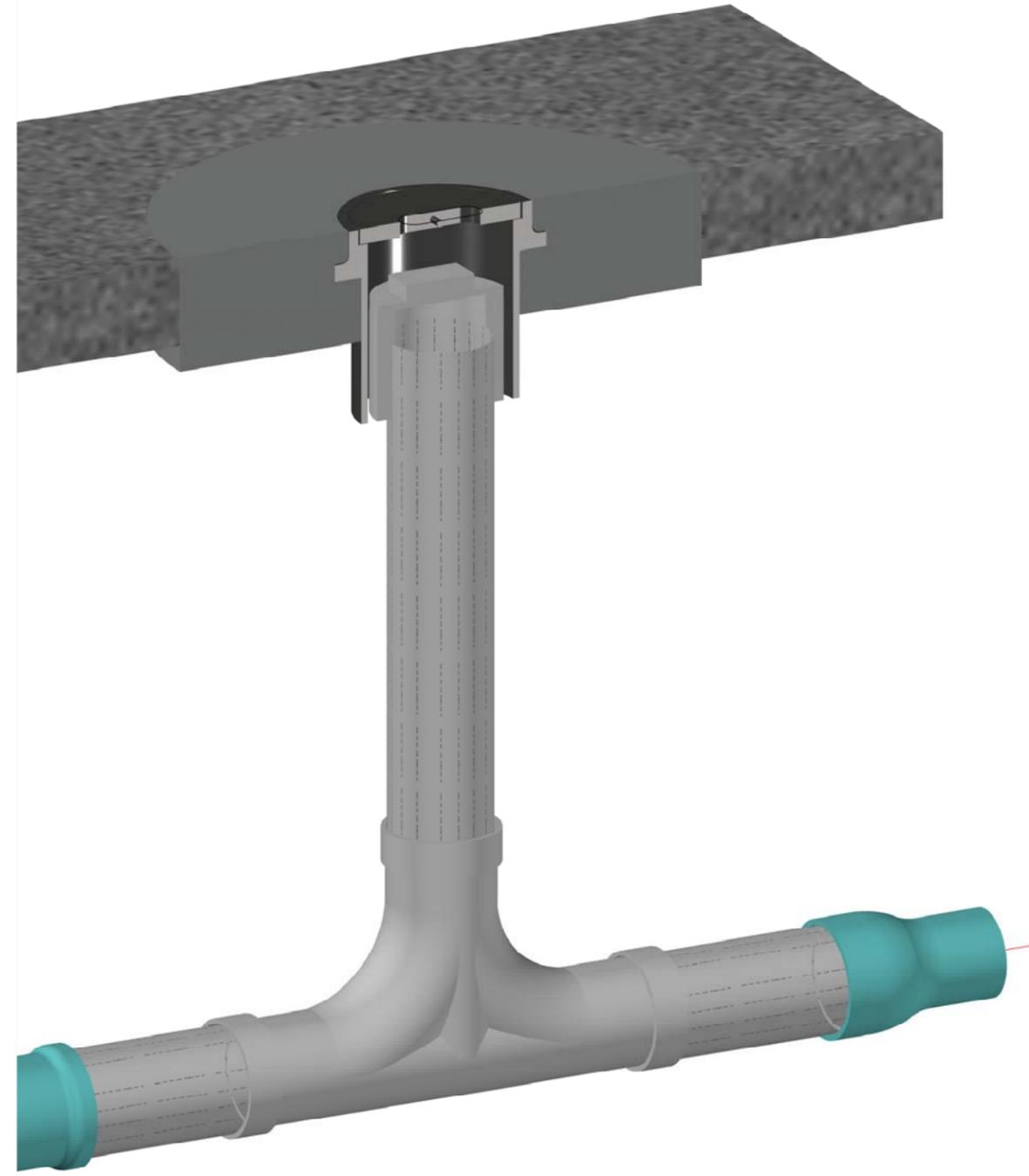
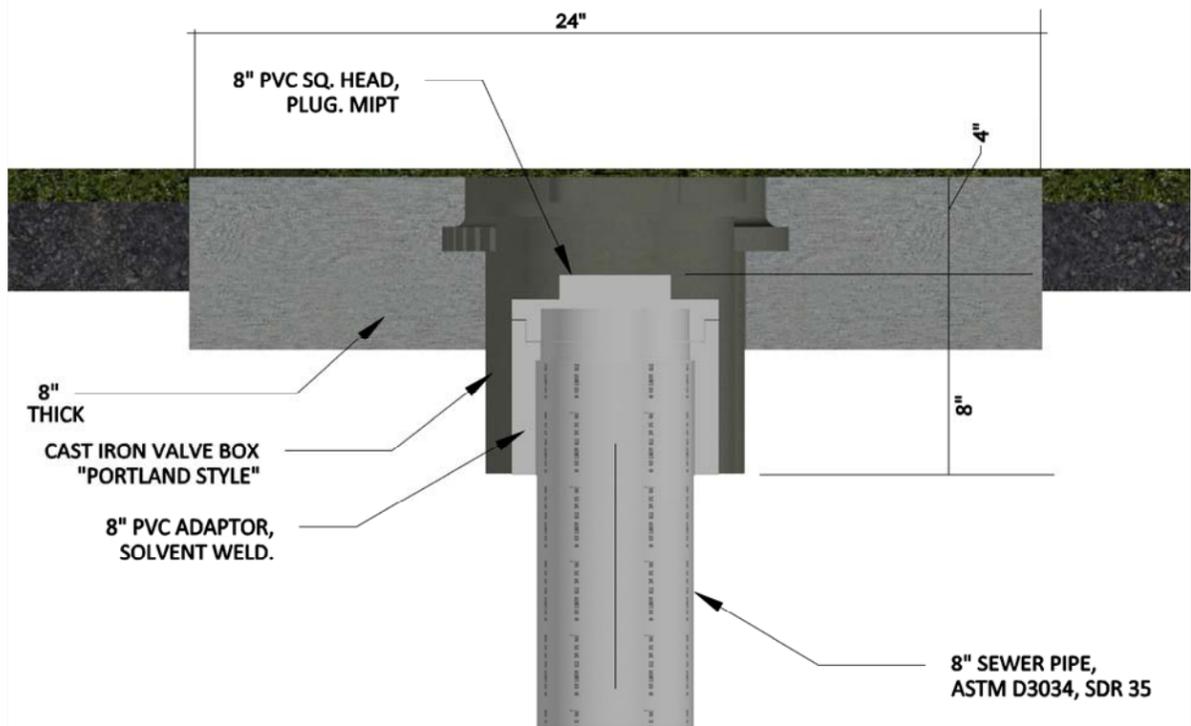
01050.90 Payment - Delete the last paragraph of this subsection.

01050.90 Payment (d) - Removing and Rebuilding Fence - Delete the following:

Removing and rebuilding fence will be paid for at the Contract unit price, per foot, for the item "Removing and Rebuilding Fence".

Replace it with the following:

Removing and rebuilding fence will be paid for at the Contract unit price, per foot, for Bid Item 40, Removing and Rebuilding Fence - Chain Link and Bid Item 41, Removing and Rebuilding Fence - Wood.



NOTES:

1. VALVE BOXES SHALL BE CENTERED DIRECTLY OVER THE STANDPIPE IN A VERTICAL POSITION.
2. VALVE BOX TOP SHALL BE ADJUSTED TO MEET FINISHED GRADE.
3. PVC SHALL BE ONE CONTINUOUS PIECE WITH NO BELLS OR COUPLERS.

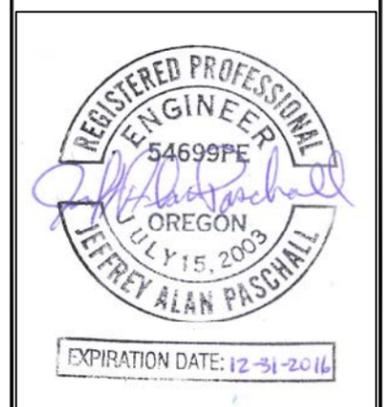
CLEANOUT DETAIL

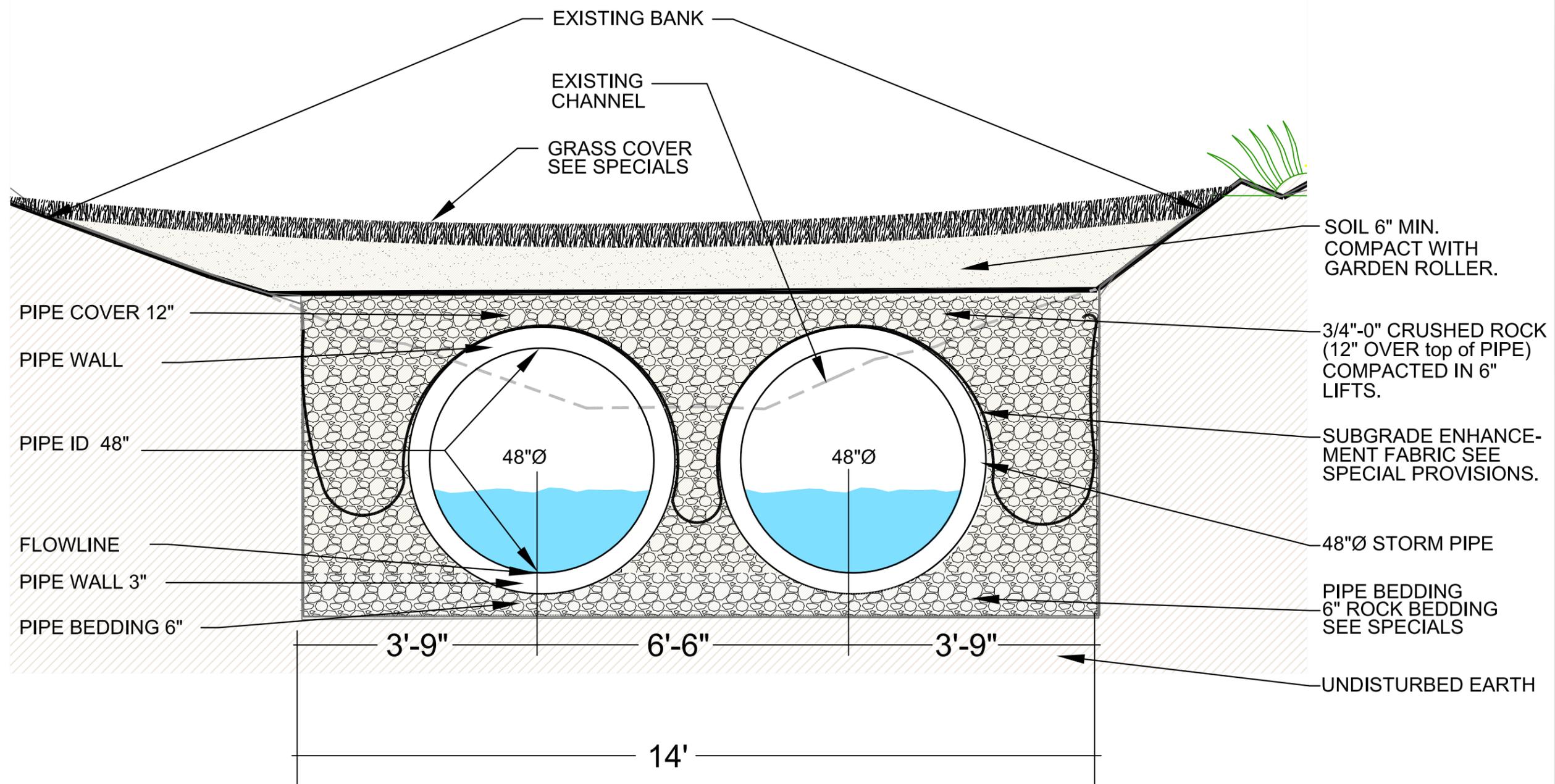
No.	Revision/Issue	Date
DRAWN: RBK		

NOTE:
 UTILITY LOCATIONS ARE APPROXIMATE
DO NOT
 SCALE OR LOCATE UTILITY LINES OR MAINS
 FROM THESE DRAWINGS
 CALL FOR UTILITY LOCATES
 811 or (1-800-332-2344)
 THE CONTRACTOR SHALL BE RESPONSIBLE
 FOR DETERMINING UTILITY LOCATIONS PRIOR TO
 BEGINNING OF CONSTRUCTION.
 THESE PLANS MAY NOT SHOW ALL UTILITIES OR
 THE CORRECT LOCATIONS.

**PROJECT: P21106 OVER/UNDER CMP PIPE REPLACEMENT
 PHASE 1 PIPE CONSTRUCTION**

City of Springfield
PUBLIC WORKS / ENGINEERING
 225 FIFTH STREET, SPRINGFIELD, OR 97477
 PHONE: 503-333-1021 FAX: 503-333-1021
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TYPICAL SECTION

Attachment 3 to Addendum 1 Dated 07/18/16

No.	Revision/Issue	Date
DRAWN: RBK		

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 PHASE 1 PIPE CONSTRUCTION**

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