

# City of Springfield Public Improvement Project

## Abridged Bid Documents

Invitation to Bid:

P21106

Over/Under CMP Pipe Replacement

The information provided in this document is an abridged version of the complete Invitation to Bid and is provided for review and informational purposes only. It does not contain all of the documents required to submit a responsive bid for consideration. To submit a responsive bid, a complete set of bid documents is required and must be purchased from the City of Springfield.

A complete set of bid documents may be viewed or purchased at the address shown below:

City of Springfield  
Development and Public Works Department  
225 Fifth Street  
SE Quad  
Springfield, OR 97477

Contact: Terri White at 541-726-3628 or [twhite@springfield-or.gov](mailto:twhite@springfield-or.gov)



**City of Springfield  
Community Development Division**

**SPECIFICATIONS  
for**

**P21106**

**Over/Under CMP Pipe Replacement**

**MANDATORY PRE-BID MEETING**

**Date:** July 13, 2016  
**Time:** 9:00 a.m.  
**Location:** City of Springfield  
City Hall  
Library Meeting Room  
225 Fifth Street  
Springfield, OR 97477

**BID OPENING**

**Date:** July 26, 2016  
**Time:** 2:00 p.m.  
**Location:** City of Springfield  
City Hall  
Jesse Maine Room  
225 Fifth Street  
Springfield, OR 97477

**The deadline for submission of questions regarding this Invitation to Bid prior to bid opening is July 20, 2016 at 1:00 p.m. as specified in Section 3.3 of the Instruction to Bidders.**

This Project is funded in full or in part by:

- State Funds  
 Neither State nor Federal Funds

**Please Take Note: All information required must be submitted as directed.**

**For your Bid to be considered responsive by the City of Springfield you must include all documents included in the Invitation to Bid with your Bid.** Additionally, any addendums or revisions must be acknowledged and submitted with your Bid. *The only exception to this is any plans or drawings, which are not required to be submitted as a part of your Bid.*

A complete description of submittal requirements can be found in the Instruction to Bidders document included in this request for bid under the heading; **5. Bid.**

**CITY OF SPRINGFIELD, OREGON**  
**Invitation to Bidders**

**Public Works Improvement Project**

Sealed bids will be received at the office of the Finance Director, Robert Duey at the City of Springfield Finance Department, 225 Fifth Street, Springfield, OR 97477, until, but no later than, 2:00 p.m. local time, the 26th day of July, 2016 and opened immediately thereafter, for the construction of the following public works improvement project in the City of Springfield:

**Project No. P21106                      Title: Over/Under CMP Pipe Replacement**

**Description: Replace the Over/Under Channel and pipe with two parallel 48-inch diameter double-walled corrugated HDPE pipes between Centennial Blvd. near 8<sup>th</sup> Street and the Hamlin School property west of 5<sup>th</sup> Street. At each side of 5<sup>th</sup> Street build cast-in-place concrete vault structures to transition the new pipe to the existing pipe to remain in place under the street. Build another vault at Centennial Blvd. for pipe transitions and an outfall structure with wing walls at Hamlin School. Backfill the pipes and channel to leave only a slight swale and restore grass in backyards and the street section at 7<sup>th</sup> Street.**

Bid documents are available from the Department of Development and Public Works, City of Springfield, 225 Fifth Street, Springfield, OR 97477, for a non-refundable fee of \$40.00 and are available for viewing at this location. Bid documents available on line at <http://www.springfield-or.gov/DPW/InvitationBid.htm> and those on file at plan centers are incomplete and cannot be used to submit bids. The 1994 edition, as most recently amended, of the City's Standard Construction Specifications, with subsequent revisions, are available for a fee of \$42.00 or can be viewed on-line at <http://www.springfield-or.gov/DPW/StandardConstructionSpecifications.htm>.

A **MANDATORY** pre-bid meeting will be held on July 13, 2016 at 9:00 a.m. in the Library Meeting Room.

All questions should be addressed to Terri White, Engineering Support Specialist, at 541-726-3628 or [twhite@springfield-or.gov](mailto:twhite@springfield-or.gov). The deadline for submission of questions regarding this Invitation to Bid is July 20, 2016 at 1:00 p.m. Contact with any other City officials may be grounds for disqualification of bid.

The Contractor performing work on this project shall have a current, valid certificate of licensure issued by the Construction Contractor's Board in accordance with ORS 701 and, if performing work described in ORS 671.520, a current, valid certificate of licensure from the State Landscape Contractor's Board in accordance with ORS 671.560 as applicable in place at the time the quote is presented and unless the bid contains a statement by the bidder as part of his/her bid that the provisions required by ORS 279C.838 through ORS 279C.870 shall be included in his/her contract. Contracts will not be awarded to any contractor whose name appears on the BOLI *Ineligible Contractor's List* or the Construction Contractor's Board *Not Qualified to Hold Public Contracts* list.

In accordance with ORS 279C.365, the City of Springfield will require that each bid must contain a statement as to whether the bidder is a resident bidder, as defined in ORS 279A.120.

The City of Springfield encourages contractors, sub-contractors and vendors who are minority, woman-owned and emerging small businesses to participate in City projects.

The City of Springfield may reject any or all bids not in compliance with all prescribed public bidding procedures and requirements, including the requirement to demonstrate the bidder's responsibility under ORS 279C.375, or waive minor irregularities not affecting substantial rights and may reject for good cause any or all bids upon a finding of the City of Springfield it is in the public interest to do so and accept such bids that in the opinion of the Springfield City Council are in the best interest of the City.

Bids will be accepted and awarded in accordance with Oregon Public Contracting Law and the City's most recent version of the Standard Construction Specifications.

Note: If applicable to this project, the First-Tier Subcontractor Form must be completed in full and submitted by the specified deadline or the bid will be rejected.

  
\_\_\_\_\_  
ROBERT J. DUEY, Finance Director

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Register Guard Publishing 07/08/16

Solicitation Number 1686



**City of Springfield**  
 225 Fifth Street  
 Springfield, OR 97477

## Bid Submittal/Schedule of Items

**Project No. P21106**  
**Project Title: Over/Under CMP Pipe Replacement**

### Bid Items:

Item No.	Description	Payment Specification Number	Approx. Quantity	Per	Unit Price	Total Price Extension
<b>Construction Bid Items</b>						
1	Mobilization	00210.90	1	LS		
2	Temporary Work Zone Traffic Control - Complete	00225.90	1	LS		
3	Temporary Drainage Facilities	00240.90	1	LS		
4	Erosion Control Plan	00280.90	1	LS		
5	Construction Entrance	00280.90	6	EA		
6	Inlet Protection	00280.90	6	EA		
7	Removal of Structures and Obstructions	00310.91	1	LS		
8	Clearing and Grubbing	00320.90	1	LS		
9	Remove Trees 12-inch or Greater Diameter at Chest Height	00320.90	18	DF		
10	Loose Riprap Class 100	00390.90	20	TON		
11	Trench Foundation	00405.90	500	TON		
12	Salvaged 24-inch CSP	00420.90	1	LS		
13	Controlled Low Strength Materials	00442.90	110	CY		
14	8-inch ASTM 3034 PVC Sanitary Sewer Pipe – 10 Foot Depth	00445.91	90	FT		
15	8-inch Sanitary Sewer Cleanout	00445.91	1	EA		
16	Connect 8-inch Sanitary Sewer	00445.91	1	EA		
17	Reconnect 8-inch Depressed Sanitary Sewer	00445.91	2	EA		
18	10-inch ASTM 3034 PVC Storm Sewer Pipe – 5 Foot Depth	00445.91	50	FT		
19	Connect 10-inch Storm Pipe	00445.91	6	EA		
20	12-inch ASTM 3034 PVC Storm Sewer Pipe – 5 Foot Depth	00445.91	10	FT		
21	Connect 12-inch Storm Pipe	00445.91	1	EA		
22	48-inch Type S Double Wall Corrugated HDPE Storm Sewer Pipe – 10 Foot Depth	00445.91	1,234	FT		
23	48-inch CL-3 ASTM C 76 Reinforced Concrete Pipe - 8 Foot Length	00445.91	1	LS		
24	Concrete Inlets, Type 2 ½ A	00470.90	2	EA		
25	Trash Rack	00470.90	1	EA		
26	New 48-inch Concrete Storm Sewer Manhole	00470.90	1	EA		
27	General Structural Concrete, Class 3300 Grate Pads	00540.90	6	EA		
28	General Structural Concrete, Class 4000, Vaults, Outfall	00540.90	1	LS		
29	Precast Concrete Vault Lid Sections	00540.90	6	EA		
30	¾ inch - 0 Aggregate Base	00641.90	100	TON		
31	Level 3, ½ inch Dense ACP	00744.90	75	TON		
32	Concrete Curb and Gutter	00759.90	100	FT		

33	4-inch Concrete Surfacing	00759.90	560	SF		
34	Remove Guardrail	00310.90	1	LS		
35	Collapsible Bollards and Bases	00815.90	1	LS		
36	Lawn Seeding	01030.90	3,000	SY		
37	Topsoil - Furnish	01040.90	900	TON		
38	Topsoil - Placement	01040.90	3,000	SY		
39	Red Twig Dogwood (Cornus Seicea) 2-Gallon Container	01040.90	36	EA		
40	Removing and Rebuilding Fence - Chain Link	01050.90	250	FT		
41	Removing and Rebuilding Fence - Wood	01050.90	1,000	FT		
<b>Project Bid Item Total:</b>					<b>\$</b>	

## Terms, Declarations and Bid Submittal

### **Bidder's Understanding**

Bidders shall determine for themselves all the conditions and circumstances affecting the projected cost of the proposed work by personal examination of the site, Contract documents, and by such other means they may deem to be necessary. It is understood and agreed that in the event the City has obtained information from data at hand regarding underground or other conditions or obstructions depicted in the Contract documents, there is no expressed or implied agreement that such conditions are fully or correctly shown, and the Bidder must take into consideration the possibility that conditions affecting the cost or quantity of work may differ from those indicated.

The Bidder is familiar with and is satisfied as to all federal, state and local laws and regulations that may affect cost, progress, and performance of the work.

### **Bid**

The undersigned Bidder having examined the Specifications and Contractual Documents and having satisfied themselves as to all conditions to be encountered, hereby proposes to furnish all labor, material and equipment and perform all work necessary to complete Project No P21106 in accordance with this Bid, the Contract Plans, City of Springfield Standard Construction Specifications, 1994 Edition, and all subsequent modifications, Parts 00200 through 03000 of the 2015 Oregon Standard Specifications for Construction, the Special Provisions, and all other Contractual Documents at the prices and on the terms herein contained.

The unit price Bids are submitted with the understanding that the quantities stated are approximate and are given only as the basis of calculation for comparison of Bids and determining that the unit prices are balanced and that final payment for all unit price items will be based on actual quantities.

It is understood that in the instance of a discrepancy between the unit price and the extension (total price extension) the unit price shall govern. The extension shall be determined by multiplying the unit price by the number of units (approximate quantity).

### **Bid Guarantee**

As required by ORS 279C.365(5) each Bid shall be accompanied by a Bid Bond, cash, or a certified or cashier's check written upon a bank in good standing and in a form acceptable to the City, payable to the Finance Director of the City of Springfield, Oregon, in an amount equal to at least 10 percent of the total amount of the Bid. Bid Bonds shall be issued by a surety company registered to issue bonds in the State of Oregon, and utilizing a bond form acceptable to the City. The City will accept AIA Document A310-2010. The Bid Bond may not be altered.

Such Bid Guarantee shall be forfeited and become the property of the City in case the Bidder shall fail or neglect to furnish a satisfactory Performance and/or Payment Bond issued by a viable bond company acceptable to the City as required by ORS 279C.380 and to execute the Contract within ten (10) days (Saturday, Sunday, and holidays excepted) after receiving Contract from the City for execution. For information regarding Performance and Payment Bond requirements see City of Springfield Contract document, Section 5. City Bonding.

### **Bid Acceptance Period**

This Bid will remain subject to acceptance for a period of 60 days after the bid opening, or for such longer period of time that the Bidder may agree to in writing upon request of the City.

### **Contract Award**

Bids will be accepted and awarded in accordance with Oregon Public Contracting Law and Section 103.01 of the City's most recent version of the Standard Construction Specifications.

Prior to awarding the Contract, the City may, at its sole discretion, require Contractors and/or Subcontractors to demonstrate to the City's satisfaction that they have a complete and clear understanding of all requirements of the Prevailing Wage Rate Laws contained in ORS 279C.800 through 279C.870 and possess the expertise necessary for fulfilling their obligations pertaining to these requirements throughout the administration of the Contract. In determining competency, the City may consider Certified Payroll Reports submitted by the Contractor and/or Subcontractor for projects previously performed for the City, copies of Certified Payroll Reports submitted to other public entities, references from other public entities attesting to the Contractor's expertise, or an interview with the Contractor regarding their personnel resources and expertise or their ability to obtain the resources and expertise necessary to meet all contractual responsibilities in accordance with ORS 279C.375.

### **Time is of the Essence**

Time is of the essence in the Contractor's performance of the Contract. Delays in the Contractor's performance of the work may inconvenience the public, interfere with business and commerce, and increase cost to the City. It is essential and in the public interest that the Contractor prosecute the work vigorously to Contract completion. The City does not waive any rights under the Contract by permitting the Contractor to continue to perform the Contract, or any part of it, after the Contract Time of Completion shown below, or as adjusted by Contract Change Order, has expired.

### **Liquidated Damages**

The City of Springfield and the Contractor agree that; (a) the amounts so fixed are reasonable forecasts of just compensation for the harm that is caused by the breach; (b) the harm that is caused by the breach is one that is incapable of or very difficult of accurate estimation; and, (c) the amount so fixed is not fixed as a penalty to coerce performance of the Contract but is rather intended to be a genuine pre-estimation of injury to the City of Springfield in lieu of performance within the contract time by the Contractor.

#### **a. Delay**

It is agreed by the City of Springfield and by the Contractor that the need exists for a damage provision in the event the Contractor fails to complete the work within the Contract time specified, or any extension thereof, by the City of Springfield. The City of Springfield and the Contractor further agree that the Contractor shall be liable to the City of Springfield for fixed, agreed and liquidated damages for each and every calendar day of delay in the amount of \$500.00 per day in accordance with Subsection 108.07 of the Standard Construction Specifications.

#### **b. Failure to Report Spills**

The Contractor also agrees to liquidated damages in the amount of \$500.00 per incident for failure to report sewage spills plus an amount sufficient to reimburse the City for any civil and administrative penalties paid by the City as a result of the contractor's failure to report. Failure to report sewage spills may subject the City to (1) civil penalties of up to \$32,500.00 per day of violation pursuant to Section 309(d) of the Clean Water Act, 33 U.S.C. § 1319(d); (2) administrative penalties of up to \$11,000.00 per day for each violation, pursuant to Section 309(g) of the Clean Water Act, 33 U.S.C. § 1319(g); or (3) civil action in federal court for injunctive relief pursuant to Section 309(b) of the Clean Water Act, 33 U.S.C. § 1319(b).

### **Contract Time of Completion**

The Contractor shall not begin work under this Contract until written Notice to Proceed has been received. The Contractor shall complete the work under this Contract within 140 consecutive working days. The day count shall begin ten days after the date of the Notice to Proceed or the actual commencement of work, whichever occurs first. All work under this Quote shall be completed no later than October 15, 2017.

The Contractor shall apply for any extensions of time as specified in Subsection 108.06 of the Standard Construction Specifications.

### **Certifications**

The undersigned hereby certifies that:

- 1.) If awarded the Contract, that they shall fully comply with all provisions regarding the prevailing wage rates as required by ORS 279C.800 to 279C.870 and/or 40 U.S.C. 2762 as applicable.
- 2.) The Contractor, Subcontractor, suppliers of materials or services, and others engaged by the Contractors, shall comply at all times with and observe all such laws, ordinances, regulations, orders, and decrees; and shall hold harmless and indemnify the City of Springfield and its representatives against any claim or liability arising from or based on the violation of any such law, ordinance, regulation, order, or decree.
- 3.) The Contractor, Subcontractor or other person doing, or contracting to do, or contracting for the whole or any part of the work on the Contract shall comply with all applicable requirements of Federal and State civil rights and rehabilitation statutes, rules and regulations.
- 4.) In conformance with OAR 137-049-0440(3) and ORS 279A.110(4) the Contractor has not, and will not, discriminate against a Subcontractor in the awarding of a subcontract because the Subcontractor is a minority, women or emerging small business enterprise certified under ORS 200.055 or a business enterprise that is owned or controlled by or that employs a disabled veteran, as defined in ORS 408.225.
- 5.) In accordance with ORS 279C.505, the Contractor will;
  - a.) Make payment promptly, as due, to all persons supplying to the Contractor labor or material for the performance of the work provided for in the Contract.
  - b.) Promptly pay all contributions or amounts due the State Industrial Accident Fund, or private carrier of accident insurance, from such Contractor or Subcontractor incurred in the performance of the Contract. If a private carrier is used, the Contractor shall notify the Engineer as to the carrier's name and address before commencement of work.
  - c.) Not permit any lien or claim to be filed or prosecuted against the state or a county, school district, municipality, municipal corporation or subdivision thereof, on account of any labor or material furnished.
  - d.) Pay to the Department of Revenue all sums withheld from employees under ORS 316.167.
  - e.) Have an employee drug testing program in place at the time of signing the contract and will maintain such drug testing program in place over the life of the Contract. Upon request, the Contractor shall furnish a copy of the employee drug testing program to the City.
- 6.) In accordance with ORS 279C.510, If demolition is involved, the Contractor shall salvage or recycle construction and demolition debris, if feasible and cost-effective as required by ORS 279C.510(1). If lawn or landscaping maintenance is involved, the Contractor shall compost or mulch yard waste in an approved site, if feasible and cost-effective as required by ORS 279C.510(2).
- 7.) In accordance with ORS 279C.520, no person will be employed by the Contractor or Subcontractor for more than 10 hours in any one day, or 40 hours in any one week except in cases of necessity, emergency, or where the public policy absolutely requires it, and in such cases the person so employed shall be paid at least time and one-half the regular rate of pay for all times worked in excess of eight hours a day or 40 hours in any one week when the work week is five consecutive days, Monday through Friday; or in excess of 10 hours a day or 40 hours in any one week when the work week is four consecutive days, Monday through Friday; and for all work performed on a Saturday, Sunday and on any legal holiday specified in ORS 279C.540.
- 8.) In compliance with ORS 279C.525 the Contractor has received and reviewed Federal, State and local agencies that may have enacted ordinances, rules or regulations dealing with the prevention of environmental pollution and the preservation of natural resources that may affect the performance of this Contract as identified under Section 13 of the Contract. Accordingly, if the Contractor is delayed or must undertake additional work by

reason of ordinances, rules, or regulations relating to the prevention of environmental pollution and the protection of natural resources subsequent to the date of submission or the successful quote, the City may:

- a.) Terminate the Contract,
  - b.) Complete the work itself,
  - c.) Use non-owner forces already under contract with the City of Springfield,
  - d.) Solicit bids for a new contractor to provide the necessary services under competitive bid requirements 279C,
  - e.) Issue the Contractor a change-order setting forth additional work that must be undertaken.
- 9.) In accordance with ORS 279C.530, the Contractor will;
- a.) Promptly, as due, make payments to any person, co-partnership, association or corporation, furnishing medical, surgical, and hospital care or other needed care and attention, incidental to sickness or injury, to the employees of such Contractor, of all sums which the Contractor agrees to pay for such services and all monies and sums which the Contractor:
    1. May or shall have deducted from the wages of his employees for such services pursuant to the terms of Oregon Revised Statutes and any contract entered in pursuant thereto; or
    2. Collected or deducted from the wages of his employees pursuant to any law, contract, or agreement for the purpose of providing or paying for such service; and
    3. All employers working under the Contract are either employers that will comply with ORS 656.017 or employers that are exempt under ORS 656.126. The Contractor shall ensure that each of its Subcontractors complies with these requirements.
- 10.) No Contractor, Subcontractor or any firm, corporation, partnership or association in which the Contractor or Subcontractor has a financial interest who appears on the *List of Contractors Ineligible to Receive Public Works Contracts*, as established by the Bureau of Labor and Industries, will perform work under this Contract, as specified in ORS 279C.860.
- 11.) No Contractor, Subcontractor or any firm, corporation, partnership or association in which the Contractor or Subcontractor has a financial interest who appears on the Construction Contractor's Board *Not Qualified to Hold Public Contracts* list, will perform work under this Contract, as specified in ORS 701.227(4).
- 12.) The Contractor performing work on this project shall have a current, valid certificate of licensure issued by the Construction Contractor's Board in accordance with ORS 701 and, if performing work described in ORS 671.520, a current, valid certificate of licensure from the State Landscape Contractor's Board in accordance with ORS 671.560 as applicable in place at the time the quote is presented.
- 13.) Prior to performing any work under the Contract all Subcontractors shall have a current, valid certificate of licensure issued by the Construction Contractor's Board in accordance with ORS 701 and, if performing work described in ORS 671.520, a current, valid certificate of licensure from the State Landscape Contractor's Board in accordance with ORS 671.520 as applicable.
- 14.) If the Contract specifies that the project includes Asbestos Abatement, the Contractor and all Subcontractors performing work on the project shall be licensed in accordance with ORS 467A.720 prior to performing any work on the project. Certification of compliance shall be presented to the City upon request.
- 15.) The Contractor shall function as an independent contractor for the purposes of this Contract and shall not be considered an employee of the City of Springfield for any purpose. The Contractor shall assume sole responsibility for any debts or liabilities that may be incurred by the Contractor in fulfilling the terms of this Contract and shall be solely responsible for the payment of all federal, state, and local taxes which may accrue because of this Contract.

**Bid Addenda**

All Addenda issued are considered to be part of the specifications of the Invitation to Bid and, as such, are as 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 in each have been considered and incorporated into the Bid as presented. All Addenda must be included with the Bid submitted.

Addenda Number	Addenda Date

**Declarations**

As required by ORS 305.385(6), under penalty of perjury, by signing below the Contractor represents that, to the best of their knowledge, neither they nor any applicable Subcontractors performing work under the Contract are in violation of any tax laws as described in ORS 305.380(4) and have complied with the tax laws of this state or a political subdivision thereof including, but not limited to, ORS 305.620 and ORS Chapters 316, 317 and 318. The Contractor shall also covenant to continue to comply with the tax laws of this state or a political subdivision thereof during the term of the Contract and that Contractor's failure to comply with such laws prior to execution of the Contract or during the term thereof is a default for which the City may terminate the Contract and seek damages and other relief available under the terms of the Contract or under applicable law.

The undersigned Bidder declares that the only persons or parties interested in the Bid are those named herein, that this Bid is, in all respects, fair and without fraud, that it is made without collusion with any official of the City, and that the Bid is made without any connection or collusion with any person submitting another Bid on this project.

I have read, fully understand, and agree that as Bidder I, and all Subcontractors, will comply with all of the terms and conditions of the contract for which this Bid is presented. By signing below I attest that I am an officer or a duly authorized representative of the business listed below and that I possess the legal authority to submit this Bid for consideration.

If the Bid is submitted by a joint venture and is in the name of the joint venture, by signing below I certify that all parties have examined this Bid, including all requirements and the Contract terms and conditions and, if successful, the joint venture shall execute a Contract which incorporates the stated requirements, terms and conditions.

Bidder's Signature \_\_\_\_\_

Bidder's Name *(Please Print)* \_\_\_\_\_

Title \_\_\_\_\_

Business Name \_\_\_\_\_

Business Address \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

Phone Number \_\_\_\_\_ Cell Phone \_\_\_\_\_

E-mail Address \_\_\_\_\_ Fax Number \_\_\_\_\_

Date \_\_\_\_\_

## PREVAILING WAGE RATE INFORMATION

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Prevailing Wage Rates information can be found at the following website:

[http://www.oregon.gov/boli/WHD/PWR/Pages/PWR\\_Rate\\_Publications\\_2016.aspx](http://www.oregon.gov/boli/WHD/PWR/Pages/PWR_Rate_Publications_2016.aspx)

For the proper Prevailing Wage Rates applicable to this project please refer to the following publications:

- 1.) *Prevailing Wage Rate Publication; Prevailing Wage Rates for Public Works Contracts in Oregon with an effective date of July 1, 2016.*

*The following Amendments to the Prevailing Wage Rates for Public Works Contracts in Oregon also apply;*

- a) *N/A*

- 2.) *State Apprenticeship Rates with an effective date of July 1, 2016.*

*The following Amendments to the State Apprenticeship Rates also apply;*

- a) *N/A*



# CITY OF SPRINGFIELD

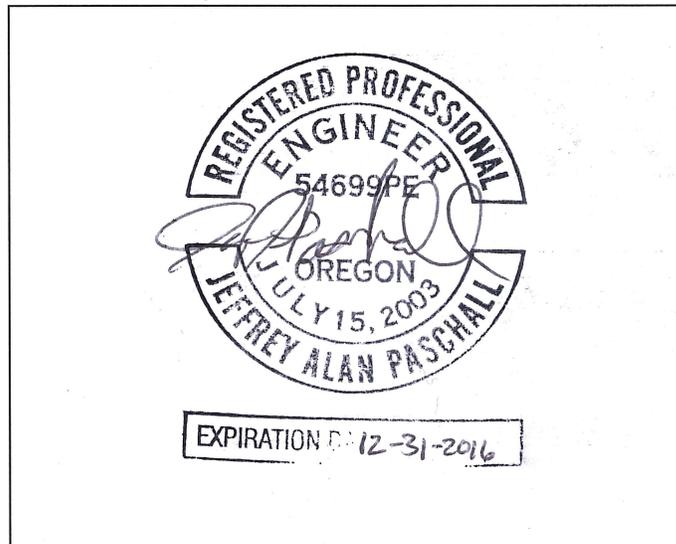
## Special Provisions

for

### P21106

## Over/Under CMP Pipe Replacement

### Engineer's Seal



## SPECIAL PROVISIONS

### SECTION A – General Requirements

#### P21106 - Over/Under CMP Pipe Replacement

##### A1.1 Codes and Standards

All work shall be performed in accordance with the highest standard of practice in the industry and shall be furnished in conformance with all applicable codes, statutes or standards that apply to this work including, but not limited to, any applicable Federal, State or City of Springfield Codes, Standards and Ordinances.

##### A1.2 Applicable Standard Specifications

Division 100, General Requirements, of the 1994 Edition of the Standard Construction Specifications of the City of Springfield, Oregon, including all revisions at date of Bid opening, and Parts 00200 through 03000 of the 2015 Oregon Standard Specifications for Construction shall apply to this Invitation to Bid and the ensuing construction contract, except as may be modified herein. If any section of the 2015 Oregon Standard Specifications for Construction should refer to Section 00100 of the same, the Bidder will instead refer to the equivalent section in Division 100 of the 1994 Edition of the Standard Construction Specifications, including all revisions at date of Bid opening. In the case of discrepancy, unless noted otherwise herein, the provision determined by the City to be more restrictive shall apply.

##### A1.3 Form of Proposal

###### **REPLACE SECTION 102.02 "FORM OF PROPOSAL" OF THE STANDARD CONSTRUCTION SPECIFICATIONS:**

"The Proposal and the proposal guarantee in the form of a bid bond, certified check, or cashier's check, shall be enclosed in a sealed, labeled and addressed envelope, as required in the Instructions to Bidders and filed as required therein. The outside of the envelope shall plainly identify: (1) The project name and (2) The bid opening date.

All Proposals must be clearly and distinctly typed or written with ink or indelible pencil.

All Proposals shall be on the form furnished by Owner, and in addition to necessary unit price items and total prices in the column of totals to make a complete Bid, all applicable blanks giving general information must be filled in and the Bids signed by an officer or duly authorized representative of the Bidder. Any statement accompanying and tending to qualify a Bid may cause rejection of such Bid, unless such statement is required, in a Proposal embracing alternate Bids. All bid documents except plans must be returned with the Bid.

Unless otherwise specified, Bidders shall bid on all Bid items included in the Proposal, and the low Bidder shall be determined as noted in Subsection 103.01 AWARD OF CONTRACT. Except as provided herein Proposals which are incomplete or fail to comply to all items required in the Proposal may be rejected."

###### **INSERT IN ITS PLACE THE FOLLOWING:**

**"ALL BID DOCUMENTS, EXCEPT PLANS, MUST BE RETURNED WITH THE BID.** This includes all documents contained in the original bid book, whether they require the completion of information or not, and any addendum that may be issued pertaining to the bid in question. The

only exceptions to this are any plans or drawings, which are not required to be submitted as a part of your Bid.

The Bid Submittal, Bid Bond, Certified Check, or Cashier's Check shall be enclosed in a sealed and labeled envelope. The outside of the envelope shall plainly identify: (1) The project name and project number and (2) The Bid opening date. All Bids must be clearly and distinctly typed or written with ink or indelible pencil. Unless otherwise specified, Bidders shall bid on all Bid items, and must include in their Bid prices the entire cost of each item of work set forth in the Bid.

Sealed Bids shall be addressed to and received at the Office of the Finance Director, City Hall, 225 Fifth St. Springfield, Oregon, 97477 at, or before, the time and date noted on the Invitation to Bidders, after which time the Bids will be publicly opened and read aloud.

All Bids shall be on the form furnished by the City, and in addition to necessary unit price items and total prices in the column of totals to make a complete Bid, all applicable blanks giving general information must be filled in and the Bids signed by an officer or duly authorized representative of the Bidder. The only exceptions to this requirement are the Performance Bond, Payment Bond, Statutory Public Works Bond and the Contract documents which are provided here as a reference. However, if you are awarded the Bid, you will be required to submit fully executed copies of these documents upon request. Any statement accompanying and tending to qualify a Bid may cause rejection of such Bid, unless such statement is required in a Bid embracing alternate Bids.

If, in the opinion of the City, the items or prices in any Bid appear unbalanced, incomplete, or fail to comply with all the terms required, the Bid may be rejected."

#### **A1.4 Proposal Guaranty and Organization**

##### **REPLACE SECTION 102.05 "PROPOSAL GUARANTY AND ORGANIZATION" OF THE STANDARD CONSTRUCTION SPECIFICATIONS:**

"Each Bid must be accompanied by a Bid Bond, cash or a certified or cashier's check upon a bank in good standing, payable to the Finance Director of the City of Springfield, Oregon, in an amount equal to at least 10% of the total amount of the bid. Such Proposal guaranty shall be forfeited and become the property of the City in case the Bidder shall fail or neglect to furnish a satisfactory Performance Bond and Payment Bond and to execute the Contract within 10 days (Saturday, Sunday and holidays excepted) after receiving said Contract from the City for execution. Bid bonds submitted shall be on the form provided by the City in the Bid document."

##### **INSERT IN ITS PLACE THE FOLLOWING:**

"As required by ORS 279C.365(4) each Bid shall be accompanied by a Bid Bond, cash, or a certified or cashier's check written upon a bank in good standing and in a form acceptable to the City, payable to the Finance Director of the City of Springfield, Oregon, in an amount equal to at least 10 percent of the total amount of the Bid. Bid Bonds shall be issued by a surety company registered to issue bonds in the State of Oregon, and utilizing a bond form acceptable to the City. The City will accept AIA Document A310-2010 Bid Bond (sample form enclosed). The Bid Bond may not be altered.

Such Bid Guarantee shall be forfeited and become the property of the City in case the Bidder shall fail or neglect to furnish a satisfactory Performance and/or Payment Bond issued by a viable bond company acceptable to the City as required by ORS 279C.380 and to execute the Contract within ten (10) days (Saturday, Sunday, and holidays excepted) after receiving Contract from the City for execution. For information regarding Performance and Payment Bond requirements see City of Springfield Contract document, Section 5. City Bonding."

## **A1.5 Interpretation of Contract Documents**

### **REPLACE SECTION 102.07 "INTERPRETATION OF CONTRACT DOCUMENTS" OF THE STANDARD CONSTRUCTION SPECIFICATIONS:**

"If it should appear to a Bidder that the work to be done, or matters relative thereto, is not sufficiently described or explained in the Contract Documents, or that Contract Documents are not definite and clear, the Bidder may make written inquiry regarding same to the Engineer at least 5 days before the scheduled closing time for filing Bids. Requests to clarify the source of materials, equipment suppliers, or any other such matter which does not modify, change, increase, or decrease the scope of the work require no action by the Owner other than a response to the Bidder requesting the clarification. Clarifications which modify, change, increase, or decrease the scope of work, require issuance of an Addendum by the Owner for the interpretation to become effective. Such addenda will be mailed to all holders of the Contract Documents. Oral instruction or information concerning the Contract Documents or the project given out by officers, employees, or agents of the Owner to prospective Bidders shall not bind the Owner. "

### **INSERT IN ITS PLACE THE FOLLOWING:**

"If it should appear to a Bidder that the work to be done is not sufficiently described or explained in the Contract Documents, or that Contract Documents are not definite and clear, the Bidder shall make written inquiry regarding same to the individual shown, in the manner instructed and within the timeframe indicated in the Invitation to Bid advertisement. Questions received will be evaluated and if, in the judgment of the City, the response does not alter or amend the requirements or scope of the Invitation to Bid, but merely clarifies existing information, the response will be entered on the Clarifications Log and posted to the project webpage as shown in the Invitation to Bid. If, in the judgment of the City, additional information or interpretation is necessary, such information shall be supplied in the form of an addendum to all individuals, firms, and corporations listed on the Plan Holders List and those individuals that attended the Pre-Bid Meeting and provided contact information on the sign-in sheet. Such addenda shall have the same binding effect as though contained in the main body of the Contract Documents. 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."

## **A1.6 Addenda to Contract Documents**

### **REPLACE SECTION 102.08 "ADDENDA TO CONTRACT DOCUMENTS" OF THE STANDARD CONSTRUCTION SPECIFICATIONS:**

"Any addenda issued by the Owner, which may include changes, corrections, additions, interpretations, or information, and issued 48 hours or more before the scheduled closing time for filing the Bids, Saturday, Sunday and legal holidays not included, shall be binding upon the Bidder. Owner shall supply copies of such addenda to all Contractors who have obtained copies of the Contract Documents for the purposes of bidding thereon. Failure of the Contractor to receive or obtain such addenda shall not excuse him from compliance therewith, if he is awarded the Contract."

### **INSERT IN ITS PLACE THE FOLLOWING:**

"Any addenda issued by the City, which may include changes, corrections, additions, interpretations, or information issued 72 hours or more before the scheduled closing time for filing the Bids shall be binding upon the Bidder. Addenda will be posted to the City's website at [www.springfield-or.gov/DPW/InvitationBid.htm](http://www.springfield-or.gov/DPW/InvitationBid.htm). The Contractor should check the website frequently for new postings during the open quote period. The City shall make a reasonable effort to notify all individuals, firms, and corporations listed on the Plan Holders List and those

individuals that attended the Pre-Bid Meeting and provided contact information 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.”

**A1.7 Familiarity With Laws and Ordinances**

**REPLACE THE THIRD PARAGRAPH OF SECTION 102.09 “FAMILIARITY WITH LAWS AND ORDINANCES” OF THE STANDARD CONSTRUCTION SPECIFICATIONS:**

“In compliance with ORS 279.318 the Contractor is made award that the following Federal, State, and local agencies have enacted ordinances or regulations relating to the prevention of environmental pollution or the preservation of natural resources which may affect performance of the City of Springfield contracts.

**FEDERAL AGENCIES**

Department of Agriculture  
Forest Service  
Soil Conservation Service  
Department of the Army-Corp of Engineers  
Coast Guard  
Dept. of Health & Human Services  
Dept. of Interior-of Indian Affairs  
Bureau of Land Management  
Bureau of Outdoor Recreation  
Fish and Wildlife Service  
Office of Surface Mining  
Reclamation & Enforcement  
Department of Labor  
Occupational Safety & Health Administration  
Mine Safety & Health Admin.  
Department of Transportation  
Federal Highway Admin.  
Environmental Protection Agency

**STATE AGENCIES**

Department of Agriculture  
Department of Energy  
Dept. of Environmental Quality  
Dept. of Fish & Wildlife  
Dept. of Forestry  
Dept. of Geology & Minerals  
Dept. of Human Resources  
Land Conservation and Development Bureau Commission  
Division of State Lands  
State Soil and Water Conservation Commission  
Water Resources Department

**LOCAL AGENCIES**

Common Council, City of Springfield  
County Court, Lane County  
Planning Commission, City of Springfield  
Planning Commission, Lane County  
Lane Regional Air Pollution Authority  
Springfield Utility Board

**INSERT IN ITS PLACE THE FOLLOWING:**

“In compliance with ORS 279C.525, the Contractor is made aware that the following federal, state, and local agencies have enacted ordinances or regulations relating to the prevention of environmental pollution or the preservation of natural resources which may affect performance of City of Springfield contracts. This is not intended to be a complete listing of agencies. Other agencies may have enacted ordinances or regulations that may apply.

If the Contractor is delayed or must undertake additional work by reason of existing ordinances, rules or regulations of agencies not cited in the Contract or due to the enactment of new or the amendment of existing statutes, ordinances, rules or regulations relating to the prevention of environmental pollution and the preservation of natural resources occurring after the submission of the successful quote, the contracting agency may, at its discretion, terminate the Contract, complete the work itself; use non-agency forces already under contract with the City, require that the underlying property owner be responsible for cleanup, solicit quotes for a new contractor to provide the necessary services or issue the Contractor a change order setting forth the additional work that must be undertaken.

If the Contractor encounters a condition not referred to in the Request for Competitive Price Quote documents, not caused by the Contractor or any Subcontractor employed on the project and not discoverable by a reasonable pre-bid visual site inspection, and the condition requires compliance with the ordinances, rules or regulations referred to under this regulation, the

Contractor shall immediately notify the City of the condition.

### **FEDERAL AGENCIES**

Department of Agriculture  
Forest Service  
Soil Conservation Service  
Department of the Army Corps of Engineers  
Coast Guard  
Department of Health and Human Services  
Department of the of Interior  
Bureau of Indian Affairs  
Bureau of Land Management  
Bureau of Outdoor Recreation  
Department of Commerce

Fish and Wildlife Service  
Office of Surface Mining  
Reclamation and Enforcement  
Bureau of Reclamation  
Department of Labor  
Occupational Safety and Health Administration  
Mine Safety and Health Admin  
Department of Transportation  
Federal Highway Administration  
Environmental Protection Agency

### **STATE AGENCIES**

Department of Agriculture  
Department of Energy  
Department of Environmental Quality  
Department of Fish and Wildlife  
Department of Forestry  
Department of Geology and Minerals

Department of Human Resources  
Land Conservation and Development Commission  
Division of State Lands  
State Soil and Water Conservation Commission  
Water Resources Department  
Oregon Department of Transportation

### **LOCAL AGENCIES**

City of Springfield  
Planning Commission, City of Springfield  
Springfield Development and Public Works  
Metropolitan Wastewater Management Commission  
Springfield Utility Board

Lane County  
Planning Commission, Lane County  
Willamalane  
Lane Regional Air Protection Authority  
Lane Council of Governments

## **A1.8 Award of Contract**

### **ADD THE FOLLOWING PARAGRAPH TO SECTION 103.01 "AWARD OF CONTRACT" OF THE STANDARD CONSTRUCTION SPECIFICATIONS:**

"Prior to awarding the Contract, the City may, at its sole discretion, require Contractors and/or Subcontractors to demonstrate to the City's satisfaction that they have a complete and clear understanding of all requirements of the Prevailing Wage Rate Laws contained in ORS 279C.800 through 279C.870 and possess the expertise necessary for fulfilling their obligations pertaining to these requirements throughout the administration of the Contract. In determining competency, the City may consider Certified Payroll Reports submitted by the Contractor and/or Subcontractor for projects previously performed for the City, copies of Certified Payroll Reports submitted to other public entities, references from other public entities attesting to the Contractor's expertise, or an interview with the Contractor regarding their personnel resources and expertise or their ability to obtain the resources and expertise necessary to meet all contractual responsibilities in accordance with ORS 279C.375."

## **A1.9 Protection of Property**

### **ADD THE FOLLOWING TO THE END OF SECTION 105.11 "PROTECTION OF PROPERTY" OF THE STANDARD CONSTRUCTION SPECIFICATIONS:**

"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 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."

#### **A1.10 Trade Names, Approved Equals or Substitutions**

##### **ADD THE FOLLOWING TO THE BEGINNING OF SECTION 107.06 "TRADE NAMES, APPROVED EQUALS OR SUBSTITUTIONS" OF THE STANDARD CONSTRUCTION SPECIFICATIONS:**

"Brand Name or Equal Specification means a specification that uses one or more manufacturers' names, makes, catalog numbers or similar identifying characteristics to describe the standard of quality, performance, functionality or other characteristics needed to meet the contracting agency's requirements. The "Equal" product, component or process shall be the same or better than that named in function, performance, reliability, quality and general configuration. Determination of equal in reference to the project design requirements will be made by the Engineer, pursuant to Subsection 106.07. Unless otherwise specified, whenever a manufacturer's name brand or model is mentioned, it is to be understood that the phrase "approved equal" is assumed to follow thereafter, whether it does in fact or not. Such specification authorizes Contractors to offer goods or services that are equivalent or superior to those brands named or described in the specification."

#### **A1.11 Insurance**

##### **REPLACE SECTION 107.06 "INSURANCE" OF THE STANDARD CONSTRUCTION SPECIFICATIONS:**

"The Contractor shall provide and maintain general liability, auto liability, property, and workers' compensation insurance for life of this Contract.

##### General Liability Insurance

The Contractor shall maintain an ISO Commercial General Liability insurance policy (or an equivalent policy approved by Owner) with combined single limits of at least \$1,000,000 per occurrence for bodily injury, personal injury, and property damage and an aggregate limit of at least \$2,000,000. The policy shall include coverage for contractual liabilities.

##### Comprehensive Automobile Liability Insurance

The Contractor shall maintain an automobile liability insurance policy with combined single limits of at least \$1,000,000 per occurrence for bodily injury, personal injury, and property damage.

##### Additional Insured Endorsement

The general and automobile insurance policies specified above shall include endorsements naming as an additional insured "the City of Springfield, its agents, employees and officials all while acting within their official capacity as such."

##### Property Insurance

Depending on the nature of the construction contemplated under this contract, Owner may require Contractor to provide property insurance. Refer to Special Provisions section of this Contract.

### Workers' Compensation Insurance

Contractor, its subcontractors, if any, and all employers working under this agreement are subject employers under the Oregon Workers' Compensation Law and shall comply with ORS 656.017, which requires them to provide workers' compensation coverage for all their subject workers.

Contractor is responsible for maintaining workers' compensation insurance for his employees and assuring that his subcontractors, if any, also maintain workers' compensation insurance. Contractor shall defend, indemnify, and hold Owner harmless from any liability for any workers' compensation claims costs, fines, or costs whatsoever arising from Contractor's or his subcontractors' failure to comply with ORS 656.017.

### Additional Policies and Special Coverages

Refer to the Special Provisions section of this Contract for additional coverages that may be required.

### Certificates of Insurance

Certificates of insurance evidencing all policies required by this Contract shall be delivered to the Owner prior to the commencement of any work. All certificates shall include a 30-day notice of cancellation clause and required additional insured endorsements. The Owner has the right to reject any certificate for unacceptable coverage and/or companies."

### **INSERT IN ITS PLACE THE FOLLOWING:**

#### "INSURANCE

All insurance shall be approved by the City as to terms, conditions and form prior to beginning work.

#### Public Liability and Property Damage

The Contractor shall maintain in force for the duration of this Contract a Commercial General Liability insurance policy written on an occurrence basis with limits not less than \$2,000,000 per occurrence and \$3,000,000 in the aggregate. The policy will be endorsed with a "per project" aggregate endorsement and shall include Products and Completed Operations coverage. Automobile Liability (owned, non-owned, and hired) insurance with limits not less than \$1,000,000 per occurrence shall be maintained. The City, its employees, officials and agents will be named as Additional Insured's where operations are being conducted related to this Contract on the General and Automobile Liability policies as respects to work or services performed under this agreement to the extent that the death or bodily injury to persons or damage to property arises out of the fault of the Contractor or the fault of the Contractor's agents, representatives or subcontractors. The following statement will appear on the face of the certificate; "The City, its employees, officials and agents are all named as additional insured while acting in their capacity as such." The City's additional insured status for Products and Completed Operations hazards shall extend for at least one year beyond the City's acceptance of the project. This insurance shall be primary and shall be paid and applied first in its entirety prior to any application of insurance the City may carry on its own.

#### Workers' Compensation

The Contractor shall provide and maintain Workers' Compensation coverage with limits no less than \$500,000 for it employees, officers, agents, or partners, as required by applicable Workers' Compensation laws. If the Contractor is exempt from this coverage a written statement, signed by the Contractor, explaining the reason for the exemption will be provided to the City prior to commencement of any work.

#### Course of Construction and/or Installation Floater

The Contractor shall maintain in full force for the duration of this contract an All Risk insurance policy approved by the City as to terms, conditions and form covering the replacement cost of the work during the course of construction. The policy shall include the interests of the City and Architect/Engineer, as applicable, and the first two layers of Subcontractors. The amount of insurance shall equal the completed value of the Contract. The City, at its option, may elect to supply this coverage.

#### Asbestos Abatement (only applicable to Asbestos Specific Contracts)

If applicable to this Contract, the Contractor shall maintain in full force a Commercial General Liability policy approved by the City as to terms, conditions and form that is Asbestos Specific with a minimum limit of \$2,000,000 per occurrence and \$3,000,000 in the aggregate written on a form that meets the following criteria:

- a. A full occurrence form, or
- b. A limited occurrence form with at least a three-year (3) tail, or
- c. A claims made form with a three-year (3) tail.

#### Pollution Liability Coverage (only applicable to Pollution Specific Contracts)

If applicable to this Contract, the Contractor shall maintain in full force a Commercial General Liability policy approved by the City as to terms, conditions and form that is Pollution Specific with a minimum limit of \$2,000,000 per occurrence and \$3,000,000 in the aggregate written on a form that meets the following criteria:

- a. A full occurrence form, or
- b. A limited occurrence form with at least a three-year (3) tail, or
- c. A claims made form with a three-year (3) tail.

#### Professional Liability Coverage (only applicable to Contracts if specified)

If Professional Liability insurance is required, the City must approve the terms, conditions and limits prior to commencement of any work.

#### Additional Policies and Special Coverages

Refer to the Special Provisions section of this Contract for additional coverages that may be required.

#### Railroad Protective Liability Coverage

If work being performed under this Contract is near railroad tracks or a railroad right of way and the Railroad requires special insurance (for example: Railroad Protective Liability Coverage) Contractor will be responsible for meeting the Railroad insurance requirements before any work commences. Any insurance required to be purchased by the Railroad is in addition to the insurance required by the City.

#### Subcontractors

The Contractor shall require all Subcontractors to provide and maintain General Liability, Auto Liability and Workers' Compensation insurance and, as applicable, Professional, Asbestos and Pollution Liability with coverage's equivalent to those required of the General Contractor in this Contract. The Contractor shall require certificates of insurance from all Subcontractors as evidence of coverage.

### Additional Insured Endorsement

All certificates of insurance, with the exception of Professional Liability and Railroad Protective Liability, must include an endorsement which lists the City of Springfield as a named additional insured. The following statement will appear on the face of the certificate; "The City, its employees, officials and agents are all named as additional insured while acting in their capacity as such."

### Evidence of Coverage and Notice of Cancellation or Material Change in Coverage

Evidence of the required coverages issued by a company satisfactory of the City shall be provided to the City by way of a certificate of insurance before any work or services commence. A 30-day notice of cancellation or material change in coverage clause shall be included.

If the approved insurance company will not provide this 30 day notice, it shall be the responsibility of the Contractor to provide written notice to the City within two (2) days of the Contractor becoming aware that their coverage has been cancelled or materially changed. The Contractor shall e-mail notification directly to Bob Duey, Finance Director at [rduey@springfield-or.gov](mailto:rduey@springfield-or.gov). Regardless of the circumstances causing the Contractor's insurance coverage to cease or be modified, it is the Contractor's responsibility to notify the City as described above.

Failure to maintain the proper insurance or provide notice of cancellation or material change shall, at the City's option, be grounds for immediate termination of this Contract. \_\_\_\_\_  
(Contractor initials)

### Equipment and Material

The Contractor shall be responsible for any loss, damage, or destruction of its own property, equipment, and materials used in conjunction with the work."

### **A1.12 Contract Time**

**ADD THE FOLLOWING AT THE END OF THE SECOND PARAGRAPH OF 108.04  
"CONTRACT TIME" OF THE STANDARD CONSTRUCTION SPECIFICATIONS:**

"This provision does not apply to the seasonal suspension of work pursuant to Subsection 108.05."

### **A1.13 Suspensions of Work**

**REPLACE SECTION 108.05 "SUSPENSIONS OF WORK" OF THE STANDARD  
CONSTRUCTION SPECIFICATIONS:**

#### "Suspension by Owner

The Contractor shall immediately suspend work on the project wholly or in part as directed by the Owner for good and sufficient reason. In the event of such suspension, Owner shall, except in emergency, and except as hereinafter provided, give Contractor three days' notice and work shall be resumed within five days after notice has been given by Owner to Contractor to do so. Owner shall allow Contractor an extension of time for completion corresponding to the total period of temporary suspension, and shall reimburse him for necessary rental of unused equipment, services of watchpersons and other unavoidable expenses by reason of the suspension without fault of Contractor. Contractor shall not be entitled to damages, intangible or overhead costs or anticipated profits from such temporary suspension.

### Suspension by Engineer

The Contractor shall immediately suspend work on the project wholly or in part as directed by the Engineer pursuant to Subsections 105.01 and 105.02 due to: (1) failure to correct unsafe conditions for working personnel, the general public or Owner's employees, (2) failure to carry out provisions of the Contract Documents, and (3) failure to carry out orders or directions, for such periods as the Engineer may deem necessary due to conditions considered unsuitable for the performance of the work or for any reason deemed to be in the public interest.

The Contractor shall immediately suspend work on the project wholly or in part as directed by the Engineer, for such periods as the Engineer may deem necessary, pursuant to Subsection 105.19 for failure to immediately correct defective and unacceptable work.

### Suspension by Contractor

Suspending operations because of seasonal conditions or other unsuitable conditions pursuant to Subsection 108.06 shall require the concurrence of the Engineer.

### Responsibility of Contractor

Voluntary or involuntary suspension or slowdown, with or without the approval of the Engineer, and suspension of work ordered by the Engineer will not be grounds for claims or damages, idle equipment or labor, or extra compensation. No allowance or compensation will be made on account of such suspensions of work except as provided hereinbefore and as provided in Subsection 108.06.

At the commencement of, and during any suspensions of work, the Contractor shall be responsible for the care of work performed and take every precaution to prevent any damage or deterioration of the work. The Contractor shall be responsible for work, including temporary protection devices to warn, safeguard, protect, guide and inform traffic during suspension, the same as though its performance had been continuous and without interferences.

The Contractor shall be responsible and bear all costs for providing suitable provisions for traffic control and for maintenance and protection of the work during suspension for cause. If the Contractor fails to provide for temporary traffic control and to maintain the work, the Engineer may immediately proceed to maintain the work. The cost of such maintenance shall be deducted from payments due or to become due to the Contractor.

### Resumption of Work

In all cases of suspension, work will be resumed only upon written order of the Engineer or Owner."

### **INSERT IN ITS PLACE THE FOLLOWING:**

#### "Temporary Suspension of Work by Owner/Engineer

The Contractor shall immediately suspend work on the project wholly or in part as directed by the Owner/Engineer for good and sufficient reason. In the event of such suspension, Owner/Engineer shall, except in emergency, and except as hereinafter provided, give Contractor three days' notice and work shall be resumed within five days after notice has been given by Owner/Engineer to Contractor to do so. Owner/Engineer shall allow Contractor an extension of time for completion corresponding to the total period of temporary suspension, and shall

reimburse him for necessary rental of unused equipment, services of watchpersons and other unavoidable expenses by reason of the suspension without fault of Contractor. Contractor shall not be entitled to damages, intangible or overhead costs or anticipated profits from such temporary suspension. This subsection does not apply to Seasonal Suspension of Work.

#### Seasonal Suspension of Work by Engineer

The Contractor shall immediately suspend work on the project wholly or in part as directed by the Engineer pursuant to Subsections 105.01 and 105.02 due to seasonal weather conditions determined, at the sole discretion of the Engineer, to be unsuitable for the performance of work. The day count will be suspended during this time. See "Responsibility of Contractor" subsection following for Contractor's responsibilities during the suspension period. Work shall not resume without written approval from the Engineer.

#### Suspension of Work by Engineer for Failure to Comply

The Contractor shall immediately suspend work on the project wholly or in part as directed by the Engineer pursuant to Subsections 105.01 and 105.02 due to: (1) failure to correct unsafe conditions for working personnel, the general public or Owner's employees, (2) failure to carry out provisions of the Contract Documents, and (3) failure to carry out orders or directions. Work shall be suspended for such periods as the Engineer may deem necessary due to conditions considered unsuitable for the performance of the work or for any reason deemed to be in the public interest.

#### Suspension of Work by Engineer for Failure to Correct Defective or Unacceptable Work

The Contractor shall immediately suspend work on the project wholly or in part as directed by the Engineer, for such periods as the Engineer may deem necessary, pursuant to Subsection 105.19 for failure to immediately correct defective and unacceptable work.

#### Suspension of Work by Contractor

Suspending operations because of seasonal conditions or other unsuitable conditions pursuant to Subsection 108.06 shall require the concurrence of the Engineer.

#### Responsibility of Contractor Under This Subsection

Voluntary or involuntary suspension or slowdown, with or without the approval of the Engineer/Owner, and suspension of work ordered by the Engineer/Owner will not be grounds for claims or damages, idle equipment or labor, or extra compensation. No allowance or compensation will be made on account of such suspensions of work except as provided hereinbefore and as provided in Subsection 108.06.

At the commencement of, and during any suspensions of work, the Contractor shall be responsible for the care of work performed and take every precaution to prevent any damage or deterioration of the work. In the case of pipework, the Contractor shall provide necessary provisions to maintain sanitary sewer and storm water functionality on both the public and private sides. The Contractor shall be responsible for work, including temporary protection devices to warn, safeguard, protect, guide and inform traffic during suspension, the same as though its performance had been continuous and without interferences. 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.

The Contractor shall be responsible and bear all costs for providing suitable provisions for traffic control and for maintenance and protection of the work during suspension for cause. If the Contractor fails to provide for temporary traffic control and to maintain the work, the Engineer

may immediately proceed to maintain the work. The cost of such maintenance shall be deducted from payments due or to become due to the Contractor.

#### Resumption of Work

In all cases of suspension, work will be resumed only upon written order of the Engineer or Owner."

#### **A1.14 Submission of Certified Payroll**

##### **REPLACE THE SECOND PARAGRAPH OF SECTION 109.07 OF THE STANDARD CONSTRUCTION SPECIFICATIONS:**

"Once before the first payment and each time the prevailing wage rates change, and once before final payment is made, Contractor shall supply and file with Owner a statement in writing under oath, in form prescribed by the State Labor Commission and which conforms with ORS Chapter 279, certifying the hourly rate of wages paid each classification of workman not exempt by statute who is employed upon such project and further certifying that no workman employed has been paid less than minimum prevailing wage rate. Each Subcontractor who performed work on the project during the period covered by the payment may be required to file with Owner a similar statement which covers its workmen."

##### **INSERT IN ITS PLACE THE FOLLOWING:**

"It shall be the responsibility of the Contractor and any subcontractors to submit certified payroll statements to the City as to the wage rates paid to each worker as follows:

As specified in ORS 279C.845, the Contractor or the Contractor's surety and every Subcontractor or the Subcontractor's surety shall file certified statements with the public agency in writing, on a form prescribed by the Commissioner of the Bureau of Labor and Industries, certifying the hourly rate of wage paid each worker whom the Contractor or the Subcontractor has employed upon the public works, and further certifying that no worker employed upon the public works has been paid less than the prevailing rate of wage or less than the minimum hourly rate of wage specified in the Contract. The certificate and certified statement shall be verified by the oath of the Contractor or the Contractor's surety or Subcontractor or the Subcontractor's surety that the Contractor or Subcontractor has read the certified statement and certificate and knows the contents thereof and that the same is true to the Contractor or Subcontractor's knowledge. Certified statements (also referred to as certified payroll reports) shall be submitted to the City no later than the 5<sup>th</sup> day of the following month for which the certified statement and certificate are being presented, regardless of whether any actual work is performed on the project or not. This information must be submitted to the City and also retained by the Contractor and Subcontractor(s) for three years.

Contracting agencies and general contractors are required to withhold 25% of amounts to Contractors if certified payrolls are not filed by the Contractor as required for work performed on projects subject to the prevailing wage rate law. Failure of Contractors to comply with the certified payroll filing requirements of the law, therefore, will result in a negative fiscal impact to those Contractors of up to 25% of their amount owed.

Each worker employed in the performance of this contract, either by the Contractor or Subcontractor or other person doing or contracting to do or contracting for the whole or any part of the work of the contract, must be paid not less than the specified minimum hourly rate of wage in accordance with ORS 279C.838 and 279C.840."

### **A1.15 Progress Payment**

#### **REPLACE THE SIXTH PARAGRAPH OF SECTION 109.07 OF THE STANDARD CONSTRUCTION SPECIFICATIONS:**

"Progress payment will be made by the Owner on a monthly basis no later than the 20<sup>th</sup> day of the subsequent month of work performed, except that, additional days may be required when a payment is accompanied by one or more of the following: an extension of completion time, change order or extra bill. Payment may be made via use of checks or warrants at the option of the Owner for the amount of the approved estimate, less retainage."

#### **INSERT IN ITS PLACE THE FOLLOWING:**

"Progress payment will be made by the City on a monthly basis in the month subsequent to the work being performed, except that additional days may be required when the Contractor fails to submit complete and accurate certified payroll reports which are in compliance with ORS279C.845 when due, or a payment is accompanied by one or more of the following: an extension of completion time, change order or bill. If the Contractor fails to submit acceptable certified payroll reports when due, or one or more of the previously stated exceptions apply, the progress payment may be made up to fourteen (14) days after the date the certified payroll or other required information in question is received by the City.

The scheduled release of payment will depend upon the method of payment selected by the Contractor. If the Contractor elects to receive payment by check, payment will be released no later than the 20<sup>th</sup> day of the month. If the Contractor elects to receive payment by electronic Automated Clearing House (ACH) transfer, the funds will be transferred no later than the fourth Friday of the month. City will endeavor to honor Contractor's election to receive payment by ACH transfer, however, City reserves the right to make payment via use of check at the sole discretion of the City."

### **A1.16 Oregon Products**

Contractor's attention is directed to the provisions of Oregon Law, ORS 279A.120 regarding the preference for products that have been manufactured or produced in Oregon. Contractor shall use Oregon-produced or manufactured materials with respect to common building materials such as cement, sand, crushed rock, gravel, plaster, etc., and Oregon-manufactured products in all cases where price, fitness, availability and quality are otherwise equal.

### **A1.17 Salvage and Debris**

Unless otherwise indicated on the drawings or in the specifications, all castings, pipe, equipment, demolition debris, fences, trees, shrubs, spoil or any other discarded material or equipment shall become the property of the Contractor and shall be salvaged or disposed of in a manner compliant with applicable Federal, State and local laws and regulations governing disposal of such waste products. No burning of debris or any other discarded material will be permitted. The Contractor shall perform any demolition for the completion of this project and shall salvage and recycle all construction and demolition debris as is feasible and cost effective, in accordance with ORS 279C.510.

END OF SECTION

# 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 <sup>th</sup>
4	Street section including pavement, 3 concrete stormwater pipes, curb, gutter and sidewalk (marked by City)	50 ft street section	7 <sup>th</sup> St.
5	Wooden bridge (heavy) with concrete and timber abutments and small deck	250 ft^2 and 6 tons concrete	1266 7 <sup>th</sup>
6	Concrete rubble stairs	2 tons	1266 7 <sup>th</sup>
7	Reinforced concrete retaining wall	18 tons	1266 7 <sup>th</sup>
8	Reinforced concrete and stone pool	18 tons	1266 7 <sup>th</sup>
9	Wooden bridge	230 ft^2	1275 6 <sup>th</sup>

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

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 18<sup>th</sup> 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, 7<sup>th</sup> Street, 6<sup>th</sup> Street and 5<sup>th</sup> 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 1 ½" - 0 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 18<sup>th</sup> 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 7<sup>th</sup> 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 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.

**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 ¾" – 0 rock base. After concrete is placed and cured, structures will be backfilled with ¾" – 0 rock. All excavation, base rock and backfill will be incidental to the Lump Sum (LS) unit price for all vault and outfall structures.

**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 this subsection, except for the number and title, and replace it with 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 inch – 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 7<sup>th</sup> 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:

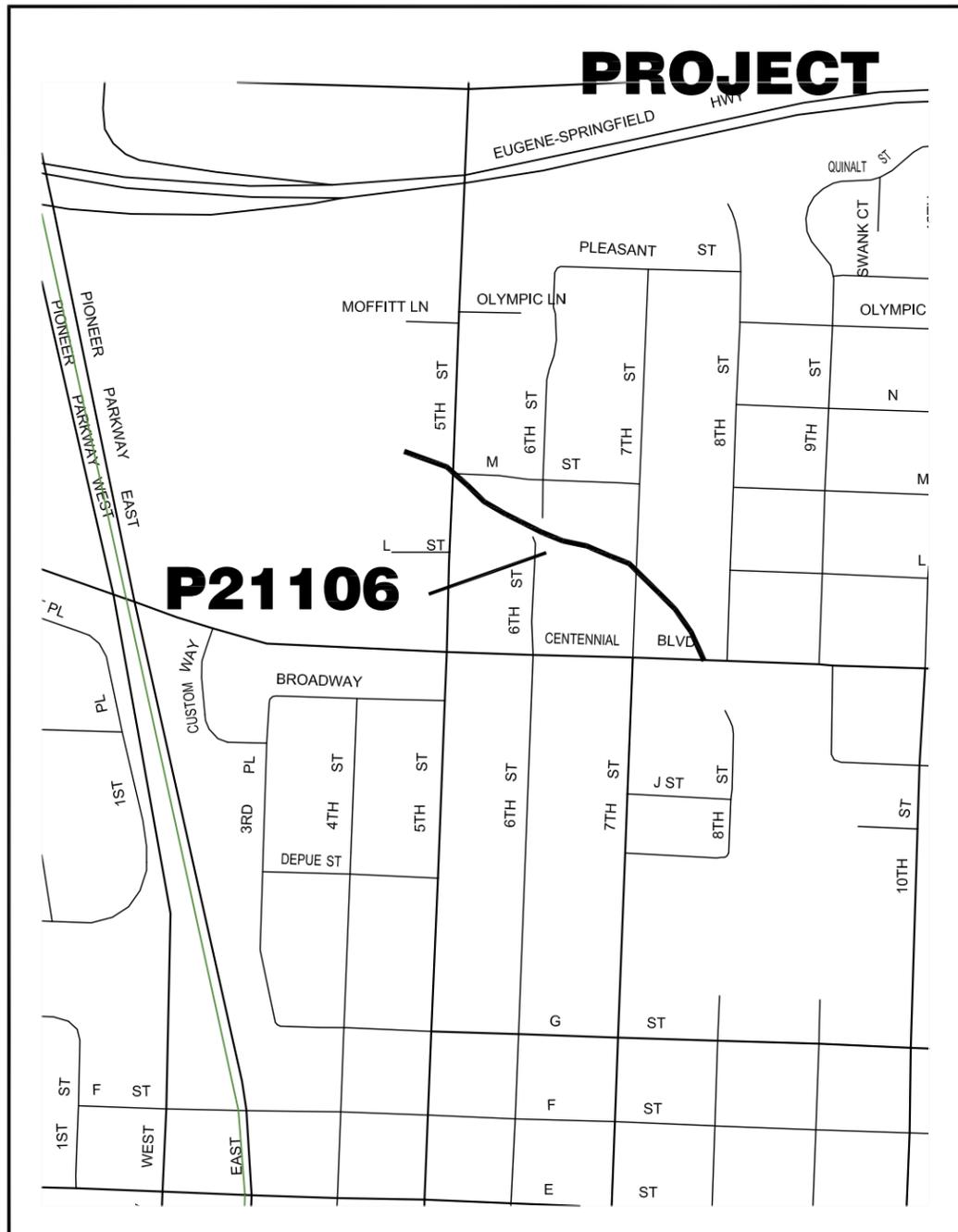
Removing and rebuilding fence will be paid for at the Contract unit price, per foot, for Bid Item 40, Removing and Rebuilding Fence - Chain Link and Bid Item 41, Removing and Rebuilding Fence - Wood.

# P21106 OVER-UNDER CHANNEL

## PROJECT PHASE 1

This project will consist of replacing the existing deteriorating arch pipe with two new 48" dia. poly pipes in a 14' wide trench leaving a shallow swale with area drains and access points as a finished product.

## VICINITY MAP



## ABBREVIATIONS

AC	ASPHALTIC CONCRETE	FM	FORCE MAIN	RCP	REINFORCED CONCRETE PIPE
ABAN	ABANDON(ED)	FT	FOOT	RD	ROAD
ADA	AMERICANS W/ DISABILITIES ACT	FTG	FITTING	RDCR	REDUCER
AL	ALUMINUM	G	GAS	REINF	REINFORCE(DNG)(MENT)
APPROX	APPROXIMATELY	GALV	GALVANIZED	RESTR	RESTRAIN(ED)
APPVD	APPROVED	GR	GRADE	REQ'D	REQUIRED
ASSY	ASSEMBLY	GRVL	GRAVEL	ROW	RIGHT OF WAY
ARV	AIR RELEASE VALVE	GV	GATE VALVE	SCHED	SCHEDULE
BLDG	BUILDING	HORIZ	HORIZONTAL	SD	STORM DRAIN
BM	BENCHMARK	HWY	HIGHWAY	SERV	SERVICE
BO	BLOWOFF	HP	HIGH PRESSURE	SHT(S)	SHEET(S)
BTM	BOTTOM	ID	INSIDEDIAMETER	SL	SLOPE
C/L	CENTER LINE	IE	INVERT ELEVATION	SPECS	SPECIFICATIONS
CB	CATCH BASIN	INSTL	INSTALL	SPL	SPOOL
CCP	CONCRETE CULVERT PIPE	LDAP	LAND & DRAINAGE ALTERATION PERMIT	SQ	SQUARE
CI	CAST IRON	LAT	LATERAL	SQ FT	SQUARE FOOT
CG	CURB/GUTTER	LF	LINEAL FEET	SS	SANITARY SEWER
CL	CLASS	LP	LOW PRESSURE	SST	STAINLESS STEEL
CO	CLEANOUT	MATL(S)	MATERIAL(S)	ST	STREET
CONC/CON	CONCRETE	MAX	MAXIMUM	STA	STATION
CONST	CONSTRUCTION	MFR(S)	MANUFACTURER(S)	STL	STEEL
COP	COPPER	MH(S)	MANHOLE(S)	STD	STANDARD
COS	CITY OF SPRINGFIELD	MHSD	MANHOLE STORM DRAIN	SUB	SPRINGFIELD UTILITY BOARD
CPLG	COUPLING	MHSS	MANHOLE SANITARY SEWER	S/W	SIDEWALK
CR	CRUSHED ROCK	MIN	MINIMUM	TEL/T	TELEPHONE
CV	CHECK VALVE	MJ	MECHANICAL JOINT	TB	THRUST BLOCK
CY	CUBIC YARD	MUTCD	MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES	TEMP	TEMPORARY
D	DRAIN	NTS	NOT TO SCALE	THK	THICK
DET	DETAIL	OC	ON CENTER	THRU	THROUGH
DL	DUCTILE IRON	OD	OUTSIDEDIAMETER	TV	TELEVISION
DIA / Ø	DIAMETER	ODOT	OREGON DEPARTMENT OF TRANSPORTATION	TYP	TYPICAL
DR	DRIVE	OVHD	OVERHEAD UTILITY	VERT	VERTICAL(Y)
DWG	DRAWING	P	POWER	W	WATER
DWY	DRIVE WAY	PCC	PORTLAND CEMENT CONCRETE	W/	WITH
EA	EACH	PE	PLAIN END	W/IN	WITHIN
EL	ELEVATION	PERM	PERMANENT	W/O	WITHOUT
ELEC/E	ELECTRICAL	P/L	PROPERTY LLNE	WM	WATER METER
EOP	EDGE OF PAVEMENT	POLY	POLYETHYLENE		
EQ	EQUAL	PROP	PROPOSED		
EQUIP	EQUIPMENT	PS	PUMP STATION		
ESMT	EASEMENT	PUGD	UNDERGROUND POWER		
EX	EXISTING	PV	PLUG VALVE		
EG	EXISTING GRADE	PVC	POLYVINYL CHLORIDE		
PRESS	PRESSURE	PVMT	PAVEMENT		
FAB	FABRICATE				
FD	FLOOR DRAIN				
FH	FIRE HYDRANT				
FIN GR	FINISHED GRADE				
FL	FLOW LINE				
FLG	FLANGE(D)				

No.	Revision/Issue	Date
DRAWN: RBK		

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

*City of Springfield*  
**PUBLIC WORKS / ENGINEERING**  
225 FIFTH STREET, SPRINGFIELD, OR 97477  
PHONE (541) 726-3733 FAX (541) 736-1021  
INTERNET www.ci.springfield.or.us



EXPIRATION DATE: 12-31-2016

SHEET

C-1

# P21106 OVER-UNDER CHANNEL

## PROJECT DESCRIPTION

This project will consist of replacing the existing deteriorating arch pipe with two new 48" dia. poly pipes in a 14' wide trench leaving a shallow swale with area drains and access points as a finished product.

## LEGEND

PROPERTY LINE	
GAS LINE	
FIBER OPTIC (NO. OF CABLES)	
WATER LINE	
POWER (ELECTRIC)	
STORM SEWER (STATE)	
RIGHT OF WAY	
SANITARY SEWER (EXISTING)	
STORM SEWER (NEW)	
SANITARY SEWER (NEW)	
GAS VALVE	
WATER VALVE	
WATER LINE	
WATER METER	
UTILITY BOX	
POWER POLE/LIGHT	
CATCH BASIN EXISTING	
CURB INLET NEW	
STORM MANHOLE (NEW)	
SANITARY MANHOLE (EXISTING)	
SANITARY MANHOLE (NEW)	
STORM AREA DRAIN (NEW)	
MAIL BOX	
UTILITY POLE	
AREA DRAIN	

## SHEET INDEX

<b>COVER SHEET</b>	<b>SHT. C1</b>	<b>CENTENNIAL VAULT</b>	<b>SHT. V5</b>
<b>TITLE SHEET</b>	<b>SHT. 1</b>	<b>5th STREET E. VAULT</b>	<b>SHT. V6</b>
<b>GENERAL NOTES</b>	<b>SHT. 2</b>	<b>5th STREET E. VAULT</b>	<b>SHT. V7</b>
<b>CONSTRUCTION PLAN</b>	<b>SHT. P3</b>	<b>5th STREET W. VAULT</b>	<b>SHT. V8</b>
<b>CONSTRUCTION PLAN</b>	<b>SHT. P4</b>	<b>5th STREET W. VAULT</b>	<b>SHT. V9</b>
<b>CONSTRUCTION PLAN</b>	<b>SHT. P5</b>	<b>END WALL OUTFALL</b>	<b>SHT. V10</b>
<b>CONSTRUCTION PLAN</b>	<b>SHT. P6</b>	<b>END VAULT OUTFALL</b>	<b>SHT. V11</b>
<b>CONSTRUCTION PLAN</b>	<b>SHT. P7</b>	<b>END WALL DETAILS</b>	<b>SHTS. V12-15</b>
<b>CONSTRUCTION PLAN</b>	<b>SHT. P8</b>	<b>END WALL DETAILS</b>	<b>SHTS. V16-18</b>
<b>CONSTRUCTION PLAN</b>	<b>SHT. P9</b>	<b>PIPE LAYOUT PLAN</b>	<b>SHT. DIM1</b>
<b>CONSTRUCTION PLAN</b>	<b>SHT. P10</b>	<b>PIPE LAYOUT PLAN</b>	<b>SHT. DIM2</b>
<b>TYPICAL SECTION</b>	<b>SHT. P11</b>	<b>PIPE LAYOUT PLAN</b>	<b>SHT. DIM3</b>
<b>DETAIL</b>	<b>SHT. D1</b>	<b>PIPE LAYOUT PLAN</b>	<b>SHT. DIM4</b>
<b>DETAIL</b>	<b>SHT. D2</b>	<b>PIPE LAYOUT PLAN</b>	<b>SHT. DIM5</b>
<b>DETAIL</b>	<b>SHT. D3</b>	<b>PIPE LAYOUT PLAN</b>	<b>SHT. DIM6</b>
<b>DETAIL</b>	<b>SHT. D4</b>	<b>EROSION CONTROL PLAN</b>	<b>SHT. E1</b>
<b>DETAIL</b>	<b>SHT. D5</b>	<b>EROSION CONTROL NOTES</b>	<b>SHT. E2</b>
<b>STD. DETAIL 4-17</b>	<b>SHT. D6</b>	<b>EROSION CONTROL</b>	<b>SHT. E3</b>
<b>STD. DETAIL 4-18</b>	<b>SHT. D7</b>		
<b>STD DETAIL CLEANOUT</b>	<b>SHT. D8</b>		
<b>VAULT SLAB</b>	<b>SHT. V1</b>		
<b>VAULT LID</b>	<b>SHT. V2</b>		
<b>CENTENNIAL VAULT</b>	<b>SHT. V3</b>		
<b>CENTENNIAL VAULT</b>	<b>SHT. V4</b>		

No.	Revision/Issue	Date
DRAWN: RBK		

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# GENERAL CONSTRUCTION NOTES:

## GENERAL CONSTRUCTION NOTES

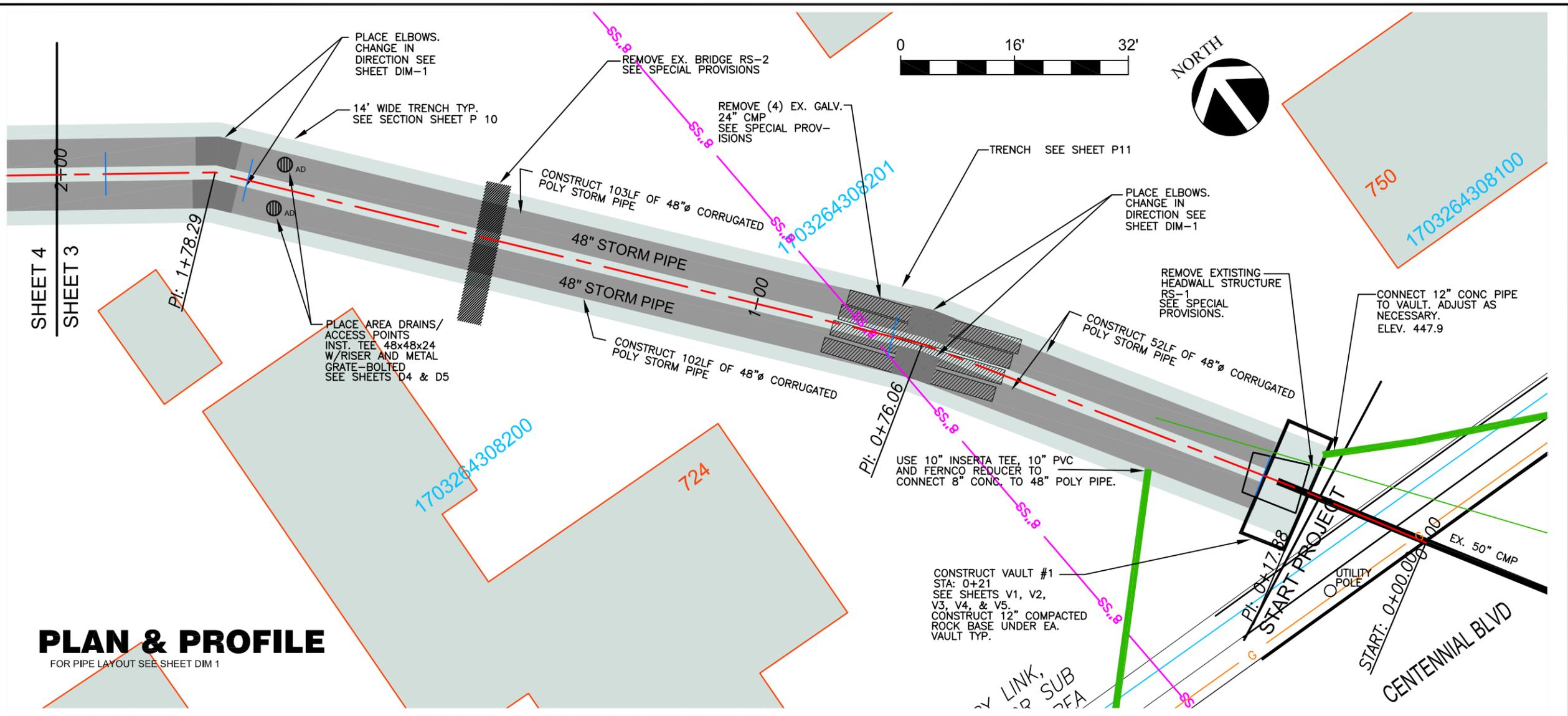


- A. OREGON LAW REQUIRES THE CONTRACTOR TO FOLLOW RULES ADOPTED BY THE OREGON UTILITY NOTIFICATION CENTER. THOSE RULES ARE SET FORTH IN OAR 952-001-0010 THROUGH OAR 952-001-0100. THE CONTRACTOR MAY OBTAIN COPIES OF THE RULES BY CALLING THE CENTER. NOTE: THE TELEPHONE NUMBER FOR THE OREGON UTILITY NOTIFICATION CENTER IS (800) 332-2344 OR 811.
- B. LOCATION AND/OR DEPTH OF EXISTING UTILITIES SHOWN ON PLANS ARE APPROXIMATE. ALL UTILITIES MAY NOT APPEAR ON PLANS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT ALL UTILITY COMPANIES FOR UNDERGROUND LOCATION OF FACILITIES AT LEAST 48 HOURS PRIOR TO EXCAVATING OR "POTHOLING". THE "ONE-CALL" NUMBER (800) 332-2344 OR 811.
- C. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION WITH UTILITY COMPANIES ON THE TIMING OF INSTALLATION OF THEIR FACILITIES.
- D. SPRINGFIELD CODE 10.2.1 REQUIRES NOTIFICATION OF OPEN TRENCHING FOR THE PROJECT TO ALLOW POSSIBLE COMMUNICATION CABLE INSTALLATION.
- E. THE CONTRACTOR SHALL PROVIDE ALL TRAFFIC CONTROL DEVICES NECESSARY TO PROTECT AND SAFEGUARD THE PUBLIC AND WORKERS AGAINST INJURY AND PROTECT THE WORK AGAINST DAMAGE. ALL TEMPORARY TRAFFIC CONTROL SIGNING AND DEVICES SHALL BE IN PLACE PRIOR TO BEGINNING WORK. ALL TRAFFIC CONTROL SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS (MUTCD), CURRENT EDITION, AS SUPPLEMENTED AND AMENDED BY THE OREGON SUPPLEMENTS. FLAGGING SHALL BE PERFORMED AS SHOWN IN THE THE "OREGON TEMPORARY TRAFFIC CONTROL HANDBOOK FOR OPERATIONS OF THREE DAYS OR LESS", 2011 OR CURRENT EDITION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY REQUIRED TRAFFIC CONTROL AS FIELD CONDITIONS WARRANT. THE CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN AT THE PRE-CONSTRUCTION CONFERENCE FOR CITY REVIEW AND APPROVAL.
- F. ALL SANITARY AND STORM SEWER CONNECTIONS TO EXISTING CITY OWNED FACILITIES (PIPE, CATCH BASINS, MANHOLES, ETC.) SHALL BE INSPECTED BY THE CONTRACTOR AND THE CITY'S PUBLIC WORKS MAINTENANCE DEPARTMENT PRIOR TO HOOK UP. CONTACT MAINTENANCE AT (541-726-3761) OR CITY CONSTRUCTION INSPECTOR NO LESS THAN 48 HOURS PRIOR TO DESIRED INSPECTION TIME.
- G. WHERE CONNECTING TO AN EXISTING PIPE. THE CONTRACTOR SHALL EXPOSE THE END OF THE EXISTING PIPE AND ALLOW THE ENGINEER TO VERIFY EXACT LOCATION AND ELEVATION, CONDITION, AND POSITIVE FLOW BEFORE LAYING ANY NEW PIPE ON THAT SYSTEM.
- H. THE SEWER GRADE SHALL BE PER THE PLANS SPECIFICATIONS AND WITH THE MINIMUM COVER AS SHOWN ON THE PLANS
- I. THE CONTRACTOR SHALL INTERNALLY TELEVISION INSPECT THE SEWER AFTER ALL BACKFILL AND BEFORE THE FINAL LIFT OF ASPHALT PAVING. THE CONTRACTOR SHALL SUPPLY THE CITY WITH A WRITTEN T.V. REPORT AND VIDEO TAPE OR DVD FOR CITY APPROVAL AT LEAST 2 WORKING DAYS BEFORE THE PRE-PAVING MEETING.
- J. CONTRACTOR TO SCHEDULE A PRE-PAVING CONFERENCE 24 HOURS PRIOR TO PAVING. CONTACT THE CONSTRUCTION INSPECTOR.
- K. ALL JOINTS BETWEEN EXISTING and NEW ASPHALT PAVING SHALL BE SEALED WITH POLYMERIZED ASPHALT AND SANDED TO PREVENT PICK UP.
- L. COMPACTION REQUIREMENTS:
 

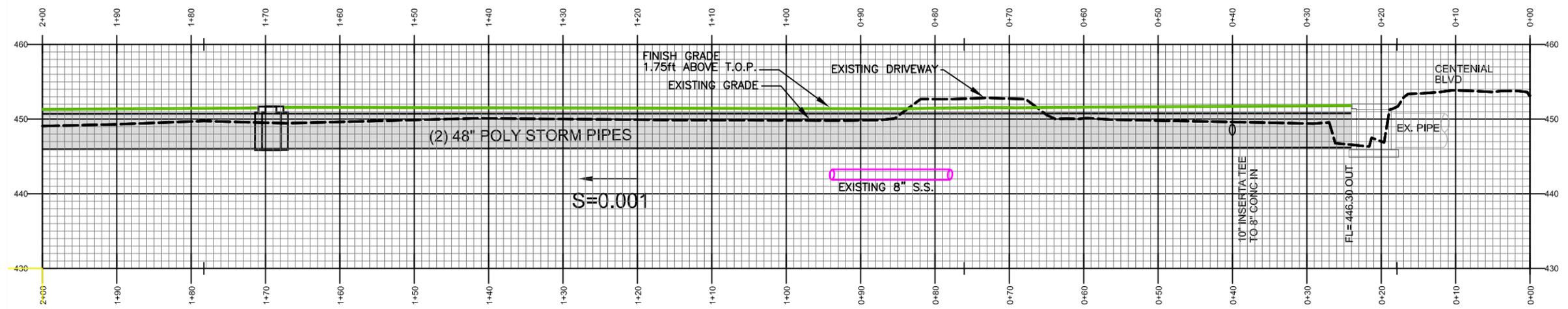
LAYER	RATE	TEST
SUBGRADE	95%	T99
CRUSHED ROCK	95%	T180
ASPHALT (LOCAL)	90%	RICE
ASPHALT (COLLECTOR/ARTERIAL)	92%	RICE
- M. CONCRETE COMPRESSIVE STRENGTH REQUIREMENTS (PSI):
 

CONCRETE USE	FIELD	LABORATORY
SIDEWALK/ADA RAMPS	3000	3450
CURBS/GUTTERS	3500	4025
DRIVEWAYS	3500	4025
PAVEMENT	4000	4600
- N. THIS PROJECT SHALL COMPLY WITH THE AMERICAN DISABILITIES ACT REQUIREMENTS SUCH AS INCORPORATION OF DESIGN CRITERIA FOR RAMPS, MAXIMUM PROFILE AND CROSS SECTION SLOPES FOR SIDEWALKS, UPGRADING EXISTING FACILITIES WHERE MAJOR CONSTRUCTION IS OCCURRING, AND BUILDING WARNING FOR OBJECTS IN SIDEWALK SUCH AS CURBING OR LANDSCAPING AROUND MAILBOXES.
- O. CONTRACTOR IS RESPONSIBLE TO OBTAIN APPLICABLE PERMITS FROM OTHER AGENCIES WITH JURISDICTIONS SUCH AS LANE COUNTY, OREGON DEPARTMENT OF TRANSPORTATION, OREGON DIVISION OF STATE LANDS, THE ARMY CORPS OF ENGINEERS, OR THE DEPARTMENT OF ENVIRONMENTAL QUALITY.
- P. ALL IMPROVEMENTS THAT WILL BE PRIVATELY OWNED AND MAINTAINED WILL BE BOUND BY THE CURRENT REQUIREMENTS OF THE STATE OF OREGON STRUCTURAL SPECIALTY CODE, PLUMBING SPECIALTY CODE, AND/OR CITY OF SPRINGFIELD BUILDING DIVISION REQUIREMENTS. CONTRACTOR IS RESPONSIBLE TO OBTAIN APPLICABLE PERMITS FROM OTHER CITY DEPARTMENTS PRIOR TO DOING PRIVATE WORK.
- Q. EROSION CONTROL MEASURES SHALL BE IN PLACE PRIOR TO THE START OF CONSTRUCTION. SEE EROSION CONTROL PLAN.
- R. STREET TREES: ONLY STREET TREES WITH A MINIMUM TRUNK CALIPER OF 2 IN. MEASURED 6 IN. ABOVE THE ROOT STEM SHALL BE SELECTED FOR PLANTING.
- S. A PRE-CONSTRUCTION CONFERENCE IS REQUIRED BEFORE START OF CONSTRUCTION. ALL UTILITIES, CONTRACTORS and CITY REPRESENTATIVES SHALL HAVE RECEIVED THE FINAL APPROVED PLANS AT LEAST 5 WORKING DAYS PRIOR TO THE PRE CONSTRUCTION CONFERENCE.
- T. THE ENGINEER AND/OR CITY HAVE THE RIGHT TO REQUIRE ADDITIONAL WORK NOT SHOWN HEREIN BUT NECESSARY FOR THE SUCCESSFUL COMPLETION OF THE PROJECT. STD.SPEC. 104.08.
- U. REQUESTS BY THE CONTRACTOR FOR CHANGES SHALL BE APPROVED BY THE ENGINEER AND THE CITY IN WRITING PRIOR TO IMPLEMENTATION.
- V. CONTRACTOR SHALL SUBMIT EVIDENCE OF INSURANCE IN ACCORDANCE WITH THE STANDARD SPECIFICATION TO THE CITY FOR APPROVAL PRIOR TO BEGINNING WORK.
- W. CONTRACTOR SHALL BE AWARE IF PAVING IS NOT SCHEDULED OR DOES NOT OCCUR PRIOR TO OCTOBER 15TH, WET WEATHER PROVISIONS INCLUDING ADDITIONAL ROCK SUBSTRUCTURE AND GEOTEXTILE FABRIC SHALL USED. REFER TO STANDARD SPECIFICATION SECTION 301.1.01 AND THE TYPICAL CROSS SECTIONS CONTAINED HEREIN FOR DETAILS
- X. THE CONTRACTOR SHALL VERIFY EACH EXISTING SANITARY AND STORM CONNECTION.

No.	Revision/Issue	Date
DRAWN: RBK		
<h2 style="margin: 0;">NOTE:</h2> <p style="font-size: x-small; margin: 0;">UTILITY LOCATIONS ARE APPROXIMATE <b>DO NOT</b> SCALE OR LOCATE UTILITY LINES OR MAINS FROM THESE DRAWINGS CALL FOR UTILITY LOCATES 811 or (1-800-332-2344)</p> <p style="font-size: x-small; margin: 0;">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.</p>		
PROJECT: P21106 OVER/UNDER CMP PIPE REPLACEMENT PHASE 1 PIPE CONSTRUCTION	<p style="font-size: x-small; margin: 0;">PUBLIC WORKS / ENGINEERING 225 FIFTH STREET, SPRINGFIELD, OR 97477 PHONE (541) 726-3750 FAX (541) 736-1021 INTERNET www.ci.springfield.or.us</p>	
<p style="font-size: x-small; margin: 5px 0;">EXPIRATION DATE: 12-31-2016</p>		
		SHEET  <u>2</u>



**PLAN & PROFILE**  
FOR PIPE LAYOUT SEE SHEET DIM 1



No.	Revision/Issue	Date
DRAWN: RBK		

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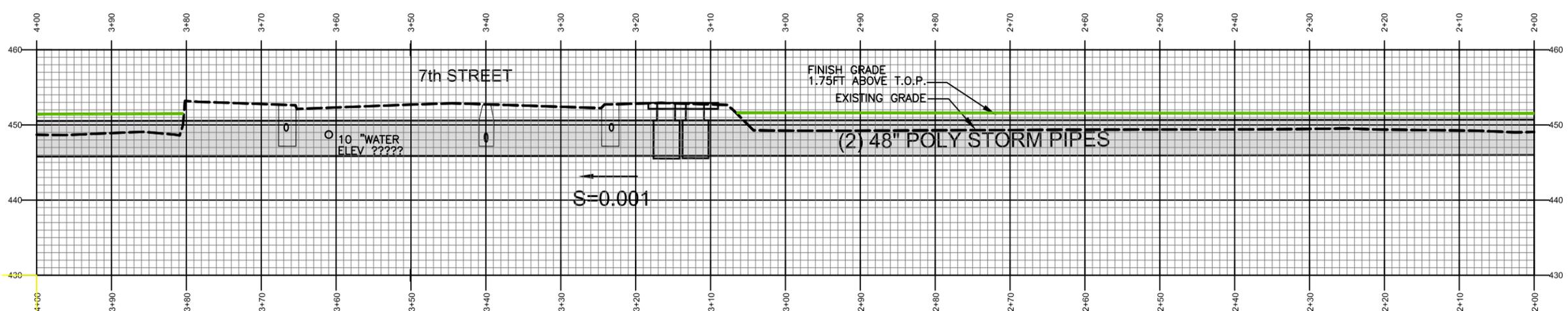
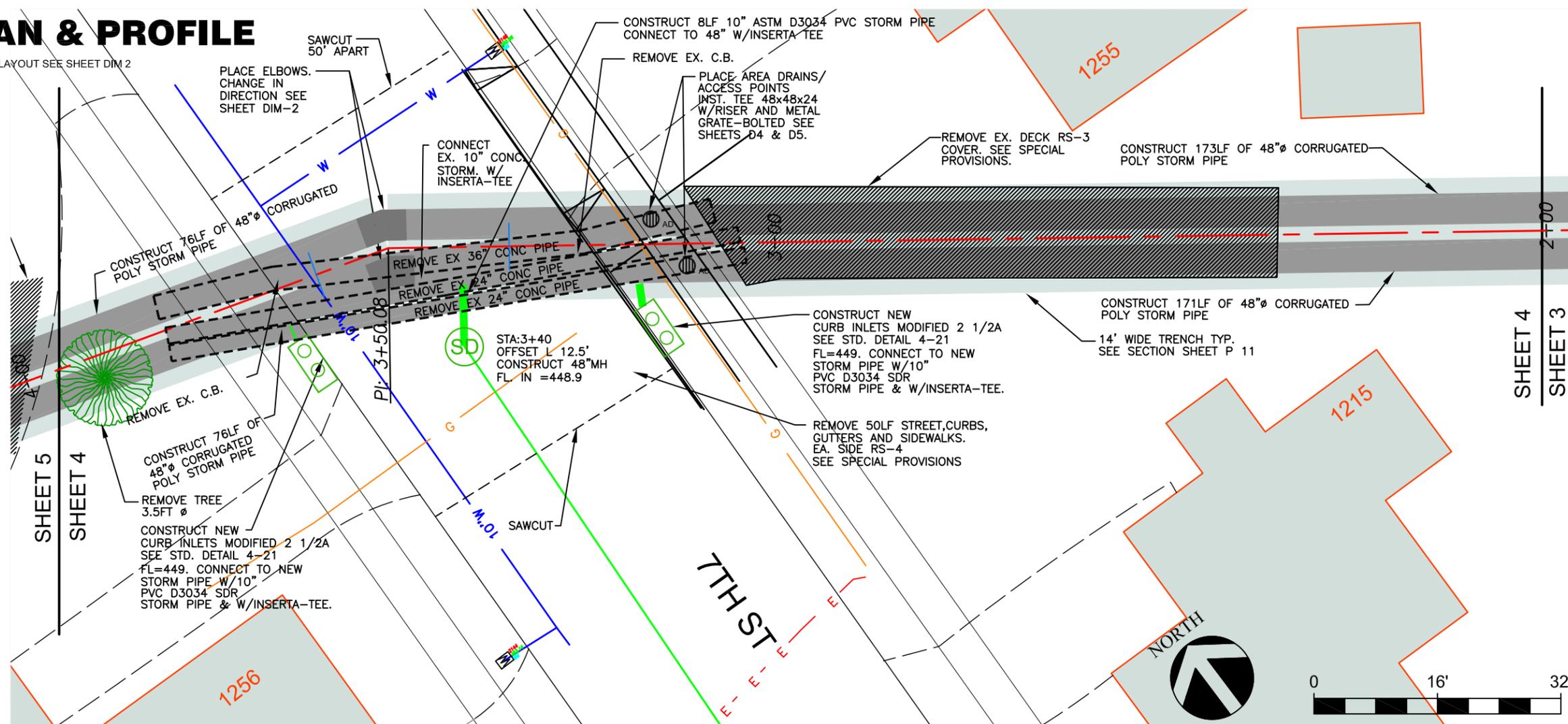
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PHASE 1 PIPE CONSTRUCTION**

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PHONE: 531-333-3333 FAX: 531-736-1021  
INTERNET: www.cityofspringfield.or.us



# PLAN & PROFILE

FOR PIPE LAYOUT SEE SHEET DIM 2



No.	Revision/Issue	Date
DRAWN: RBK		

## NOTE:

UTILITY LOCATIONS ARE APPROXIMATE  
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811 or (1-800-332-2344)

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BEGINNING OF CONSTRUCTION.  
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**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) 338-3333 FAX: (503) 338-1021  
INTERNET: www.cityofspringfield.or.us



EXPIRATION DATE: 12-31-2016

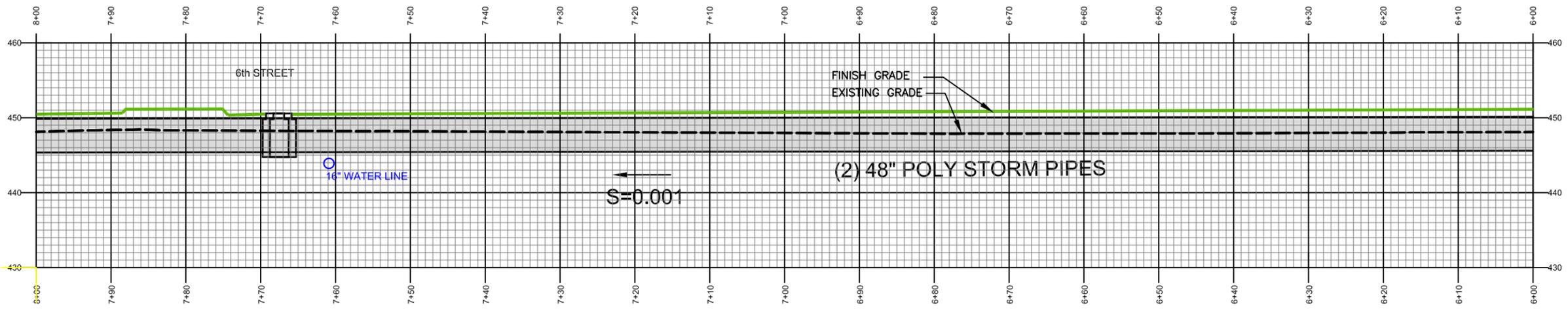
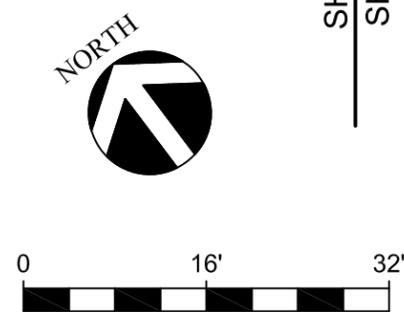
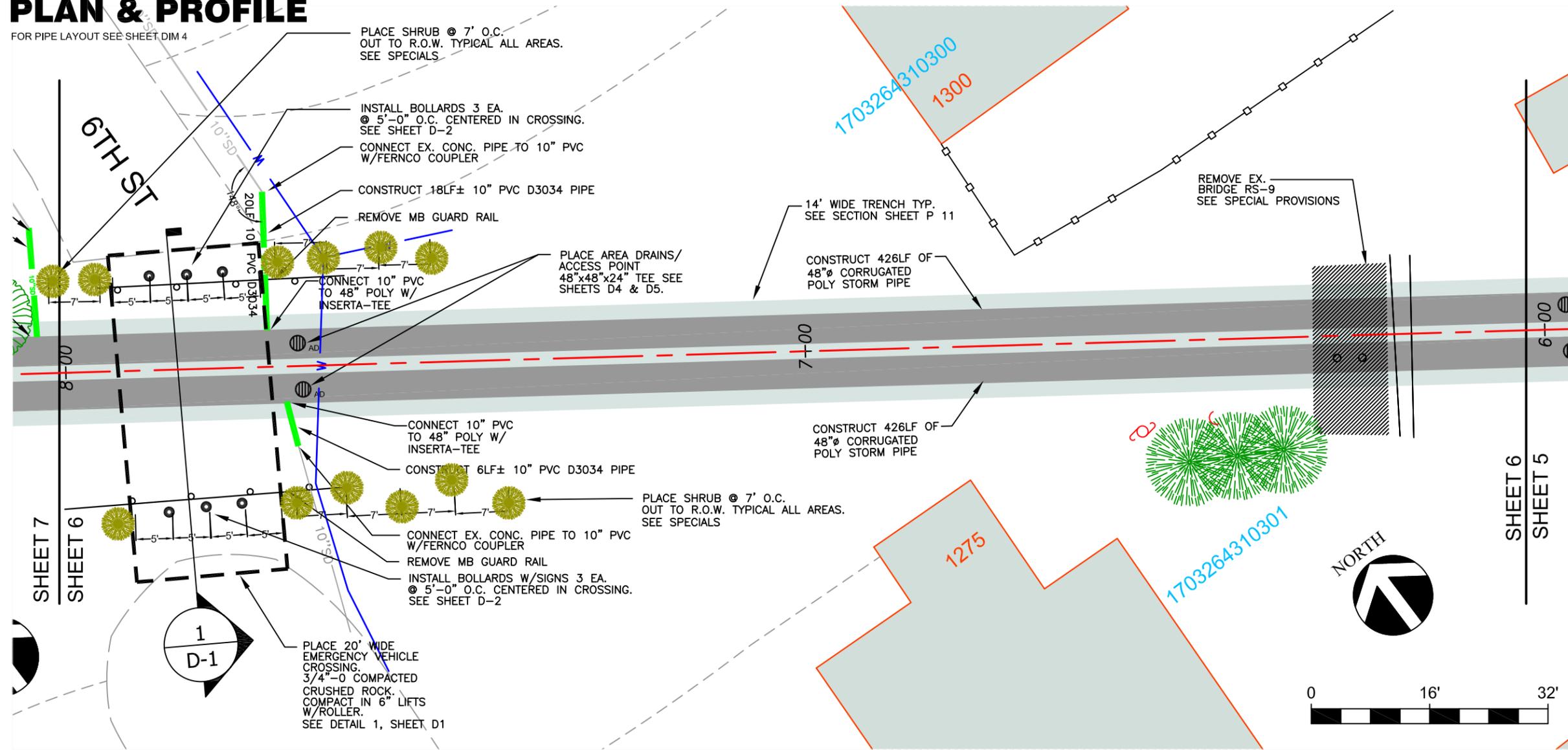
SHEET

**P 4**



# PLAN & PROFILE

FOR PIPE LAYOUT SEE SHEET DIM 4



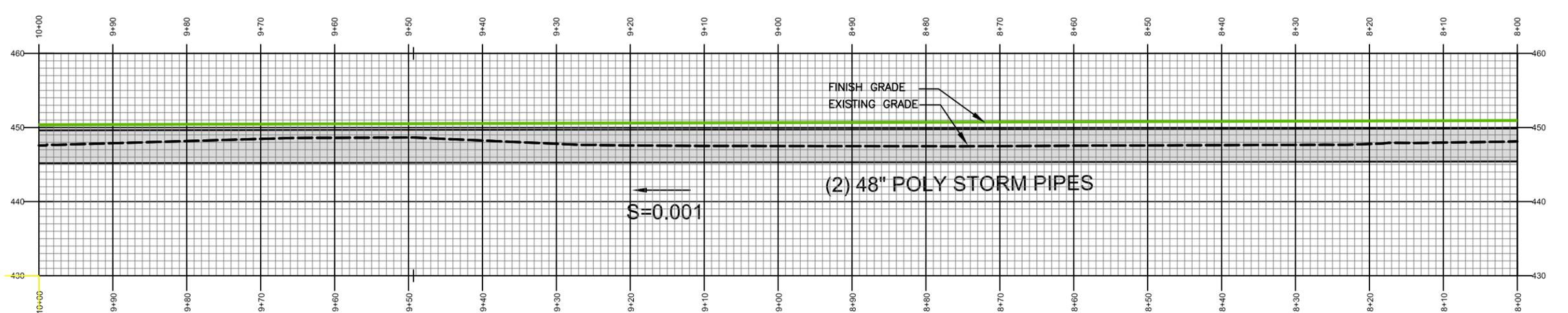
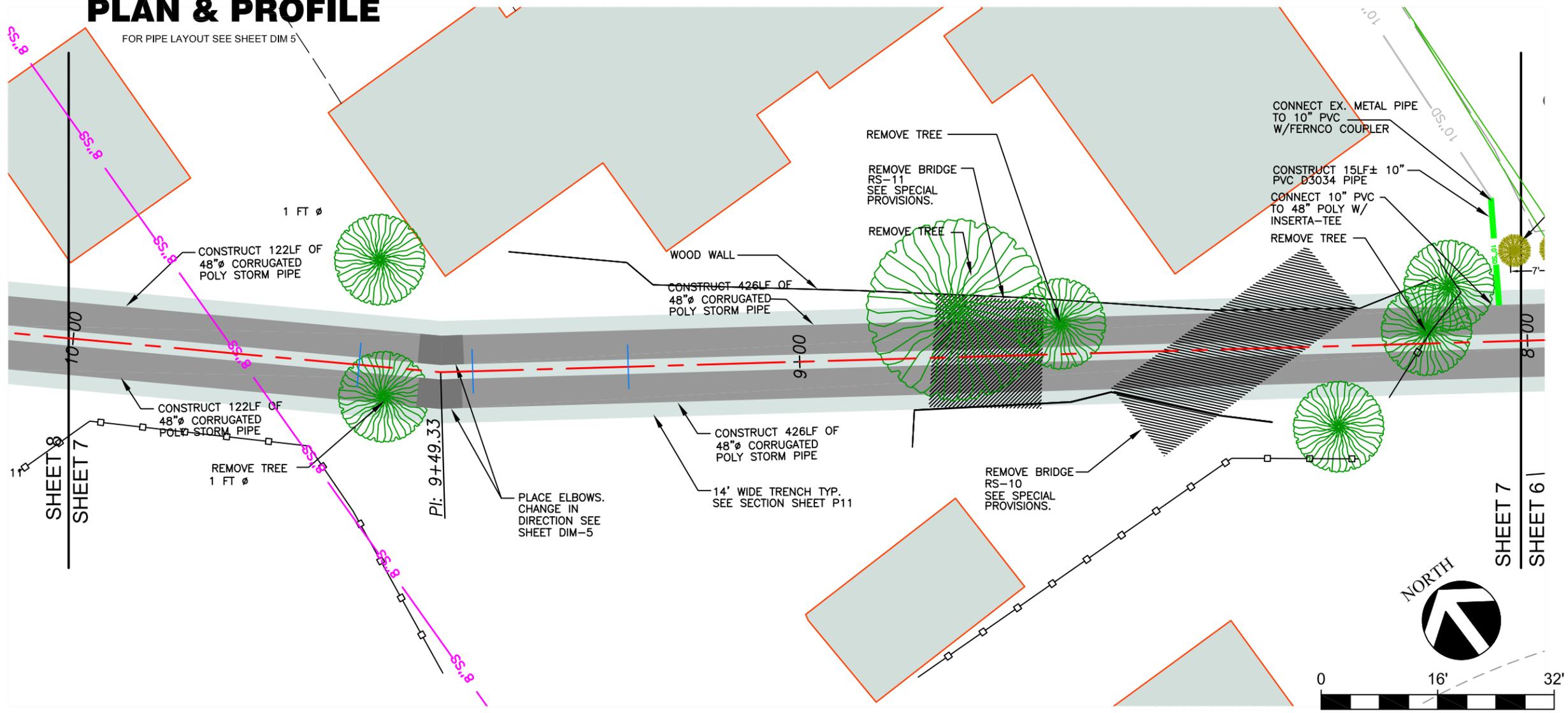
No.	Revision/Issue	Date
DRAWN: RBK		

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# PLAN & PROFILE



No.	Revision/Issue	Date
DRAWN: RBK		

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PHONE: 503-333-3133 FAX: 503-336-1021  
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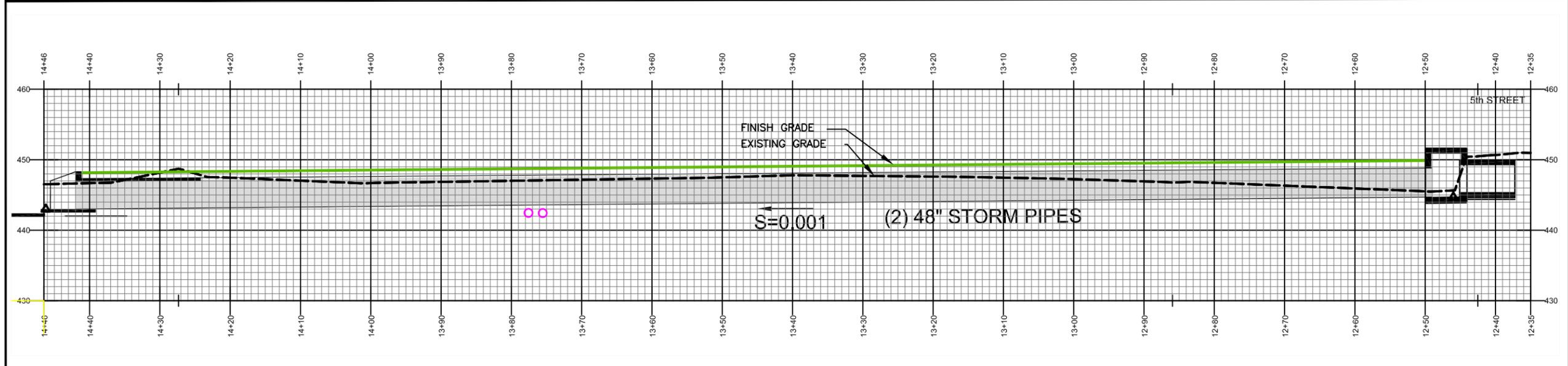
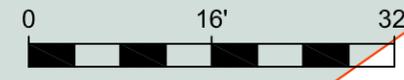
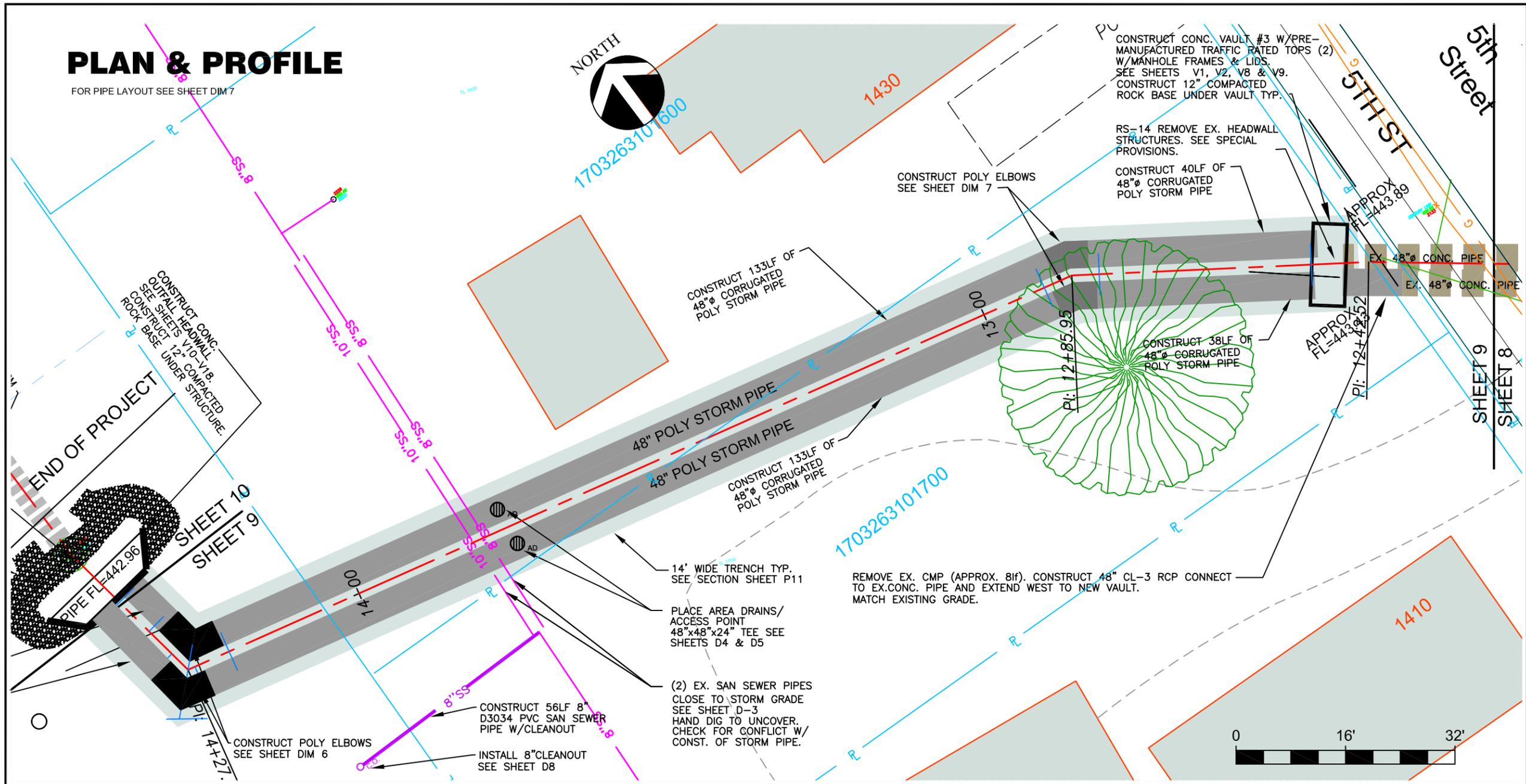
REGISTERED PROFESSIONAL ENGINEER  
54699PE  
OREGON  
JULY 15, 2003  
JEFFREY ALAN PASCHALL

EXPIRATION DATE: 12-31-2016



# PLAN & PROFILE

FOR PIPE LAYOUT SEE SHEET DIM 7



No.	Revision/Issue	Date
DRAWN: RBK		

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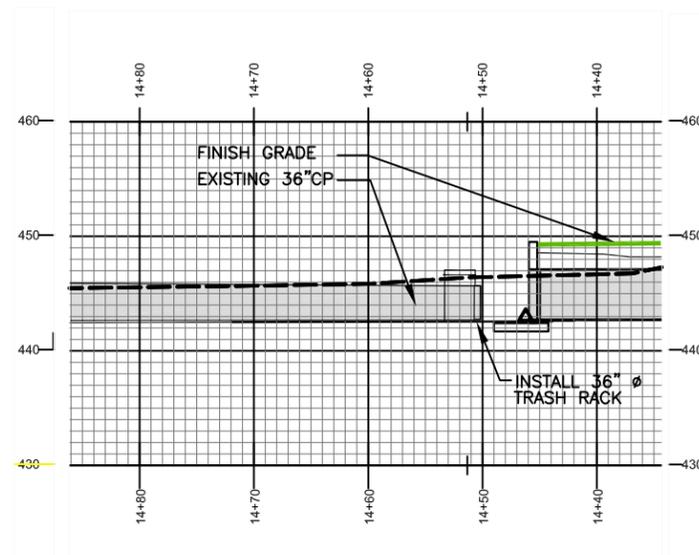
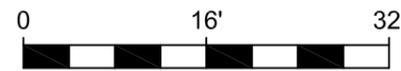
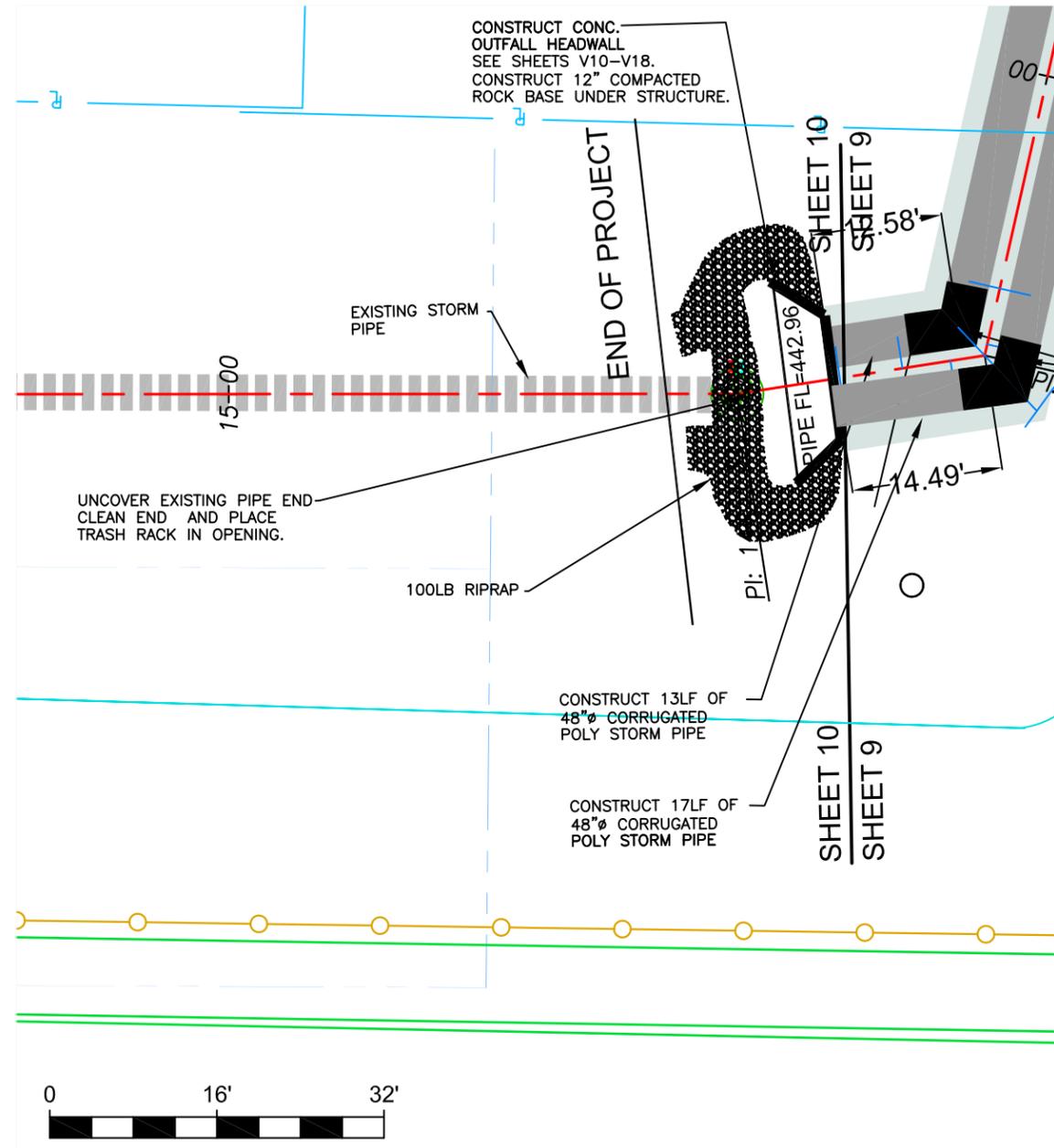
*City of Springfield*  
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EXPIRATION DATE: 12-31-2016

# PLAN & PROFILE

FOR PIPE LAYOUT SEE SHEET DIM 7

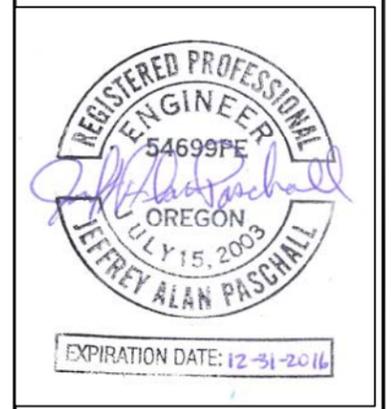


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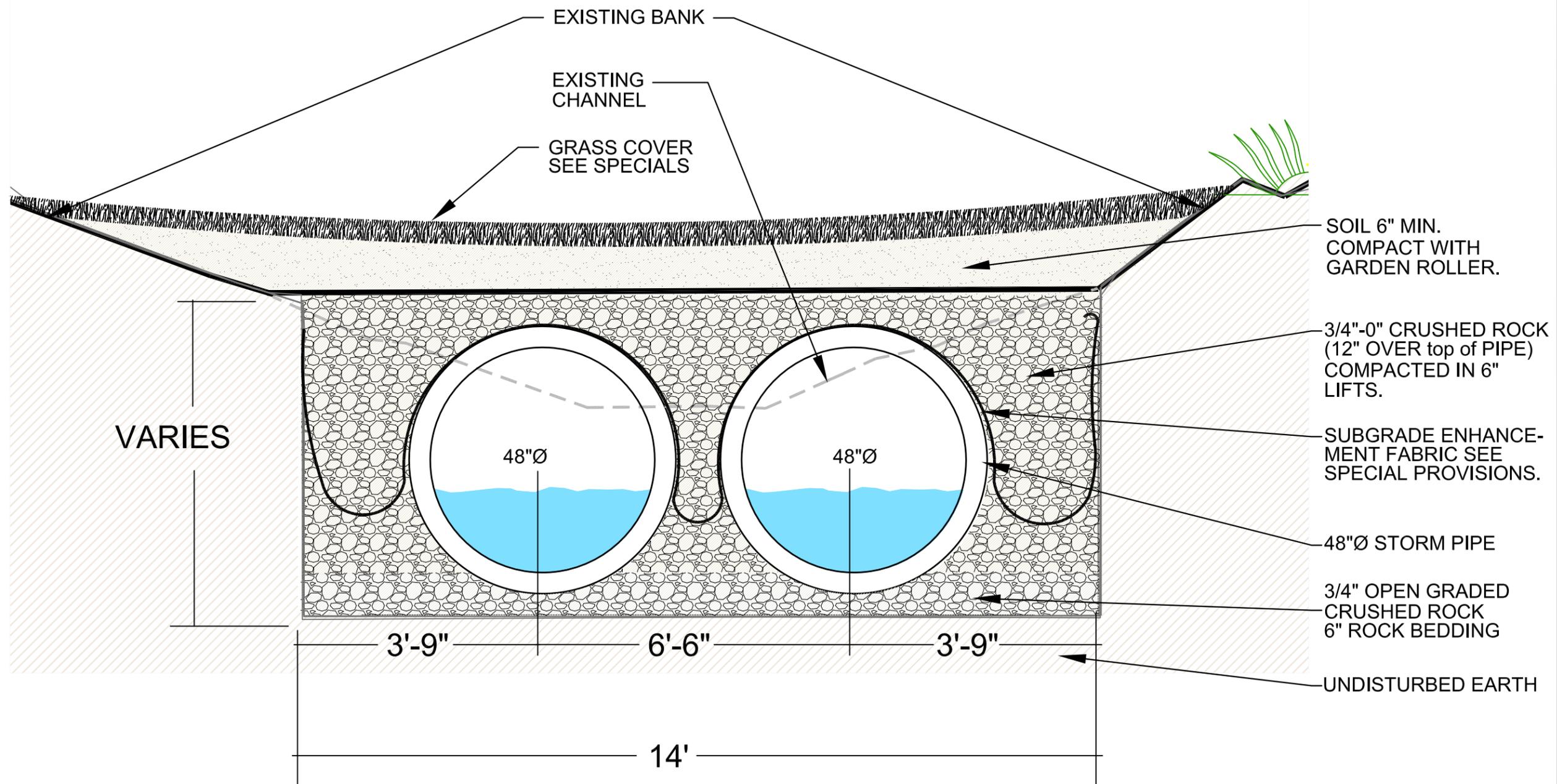


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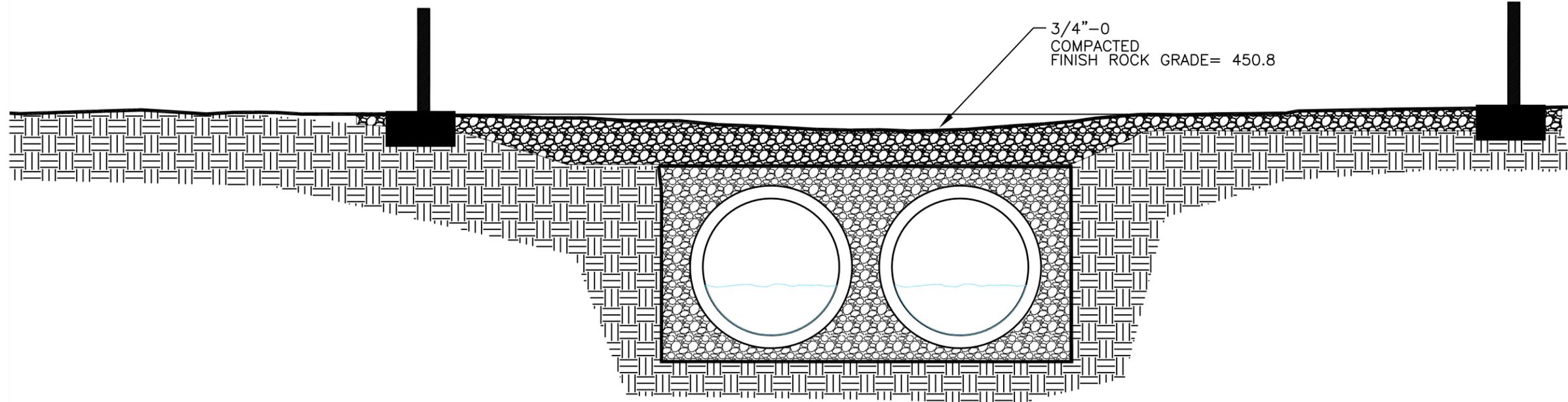


EXPIRATION DATE: 12-31-2016

**TYPICAL SECTION**

SHEET

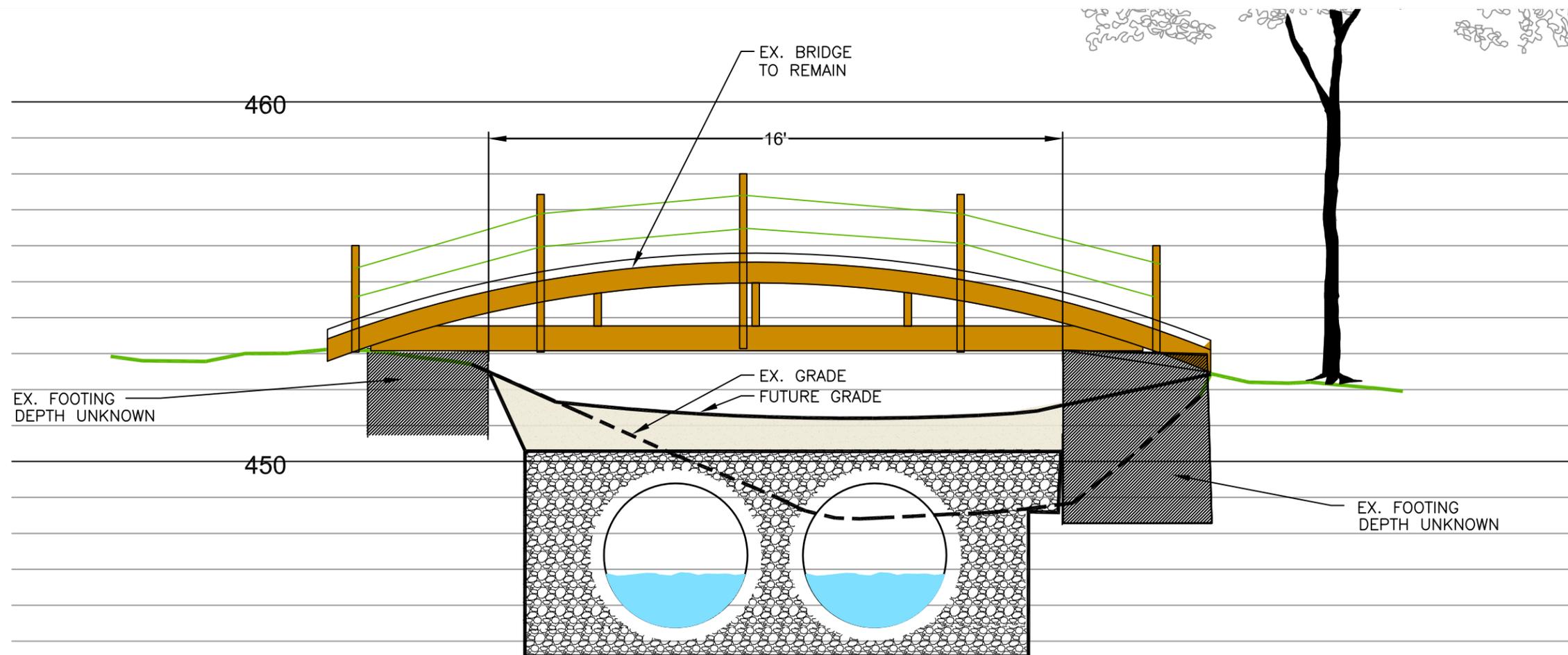
**P 11**



3/4"-0  
COMPACTED  
FINISH ROCK GRADE= 450.8

1

SECTION AT 6th STREET LOOKING EAST



2

SECTION AT STA: 4+70 LOOKING WEST

No.	Revision/Issue	Date
DRAWN: RBK		

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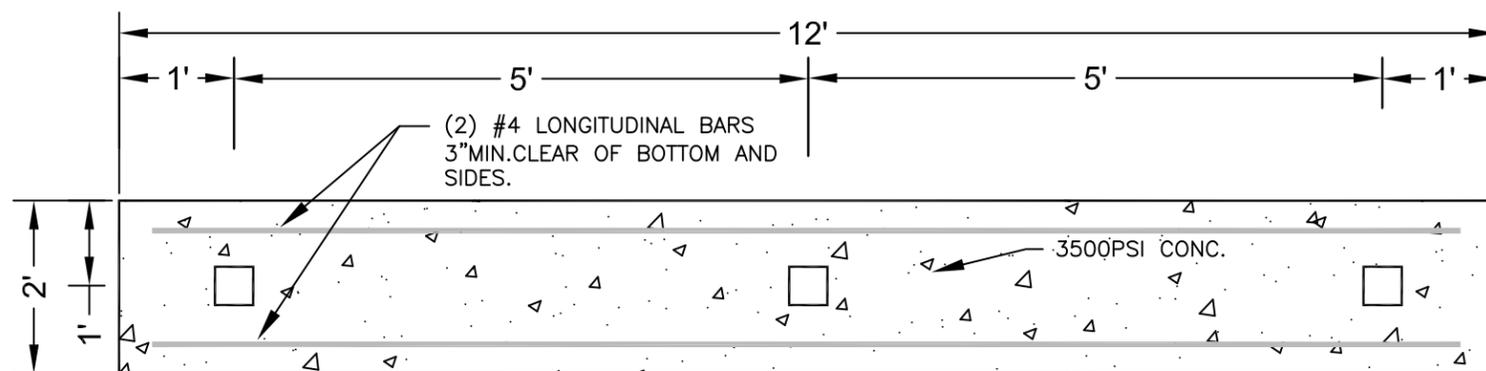
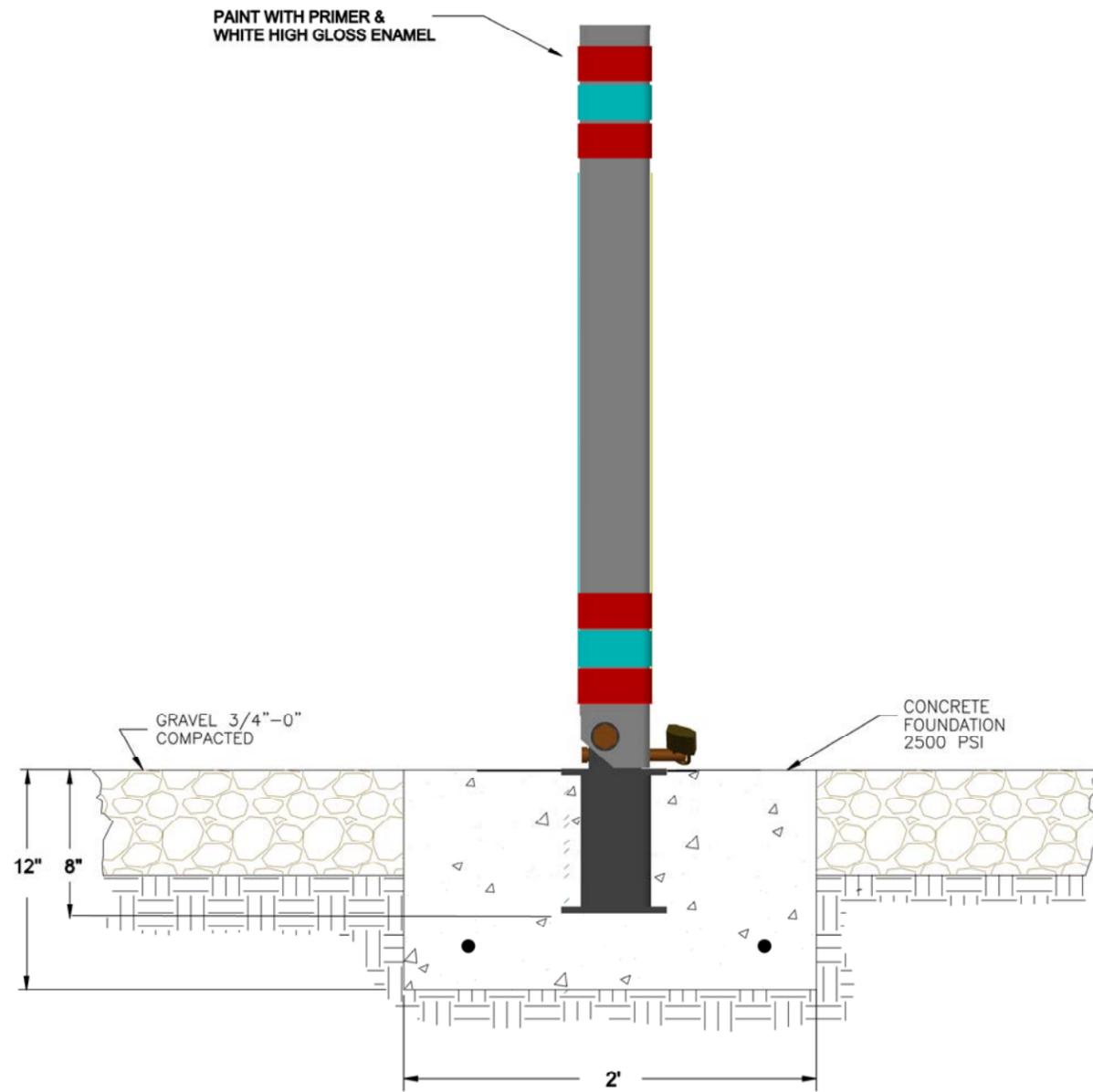


EXPIRATION DATE: 12-31-2016

SHEET

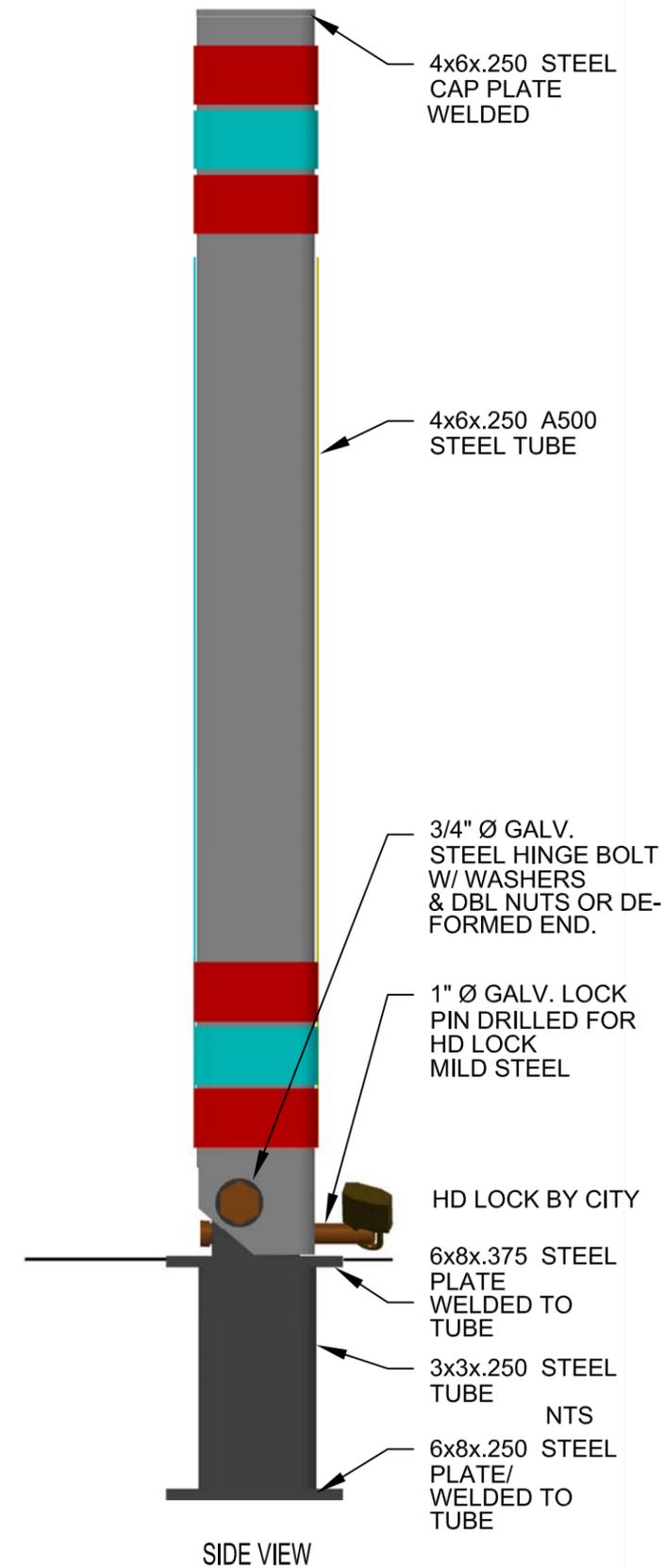
**D-1**

# BOLLARD DETAIL



FOOTING PLAN

NTS



SIDE VIEW

BOLLARD DETAIL

No.	Revision/Issue	Date
DRAWN: RBK		

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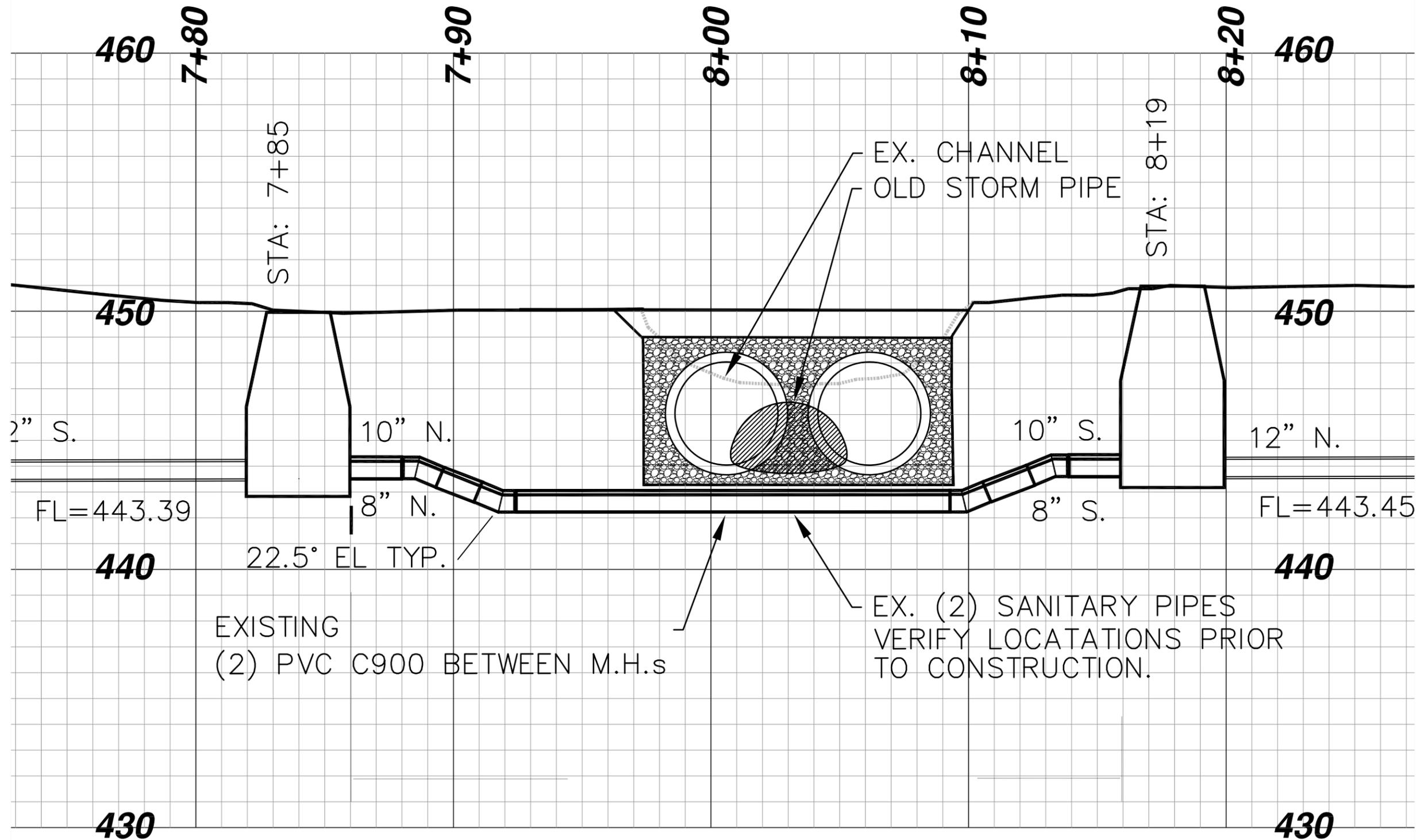


EXPIRATION DATE: 12-31-2016

SHEET

D-2

EXISTING ASBUILT STATIONING SANITARY AT CROSSING



EXISTING SANITARY CROSSING @ STA:13+80

No.	Revision/Issue	Date
DRAWN: RBK		

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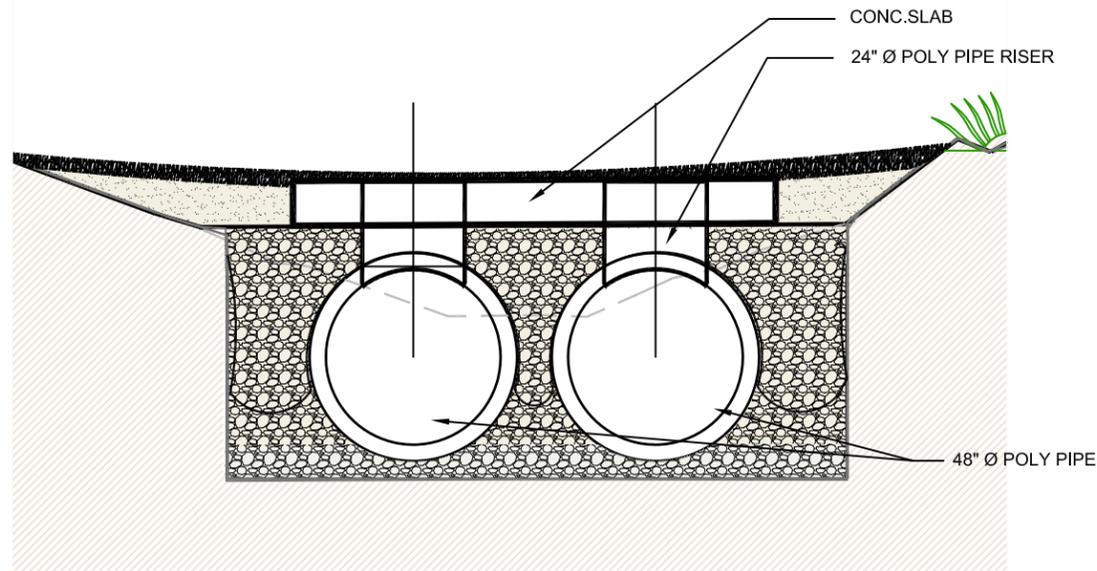
*City of Springfield*  
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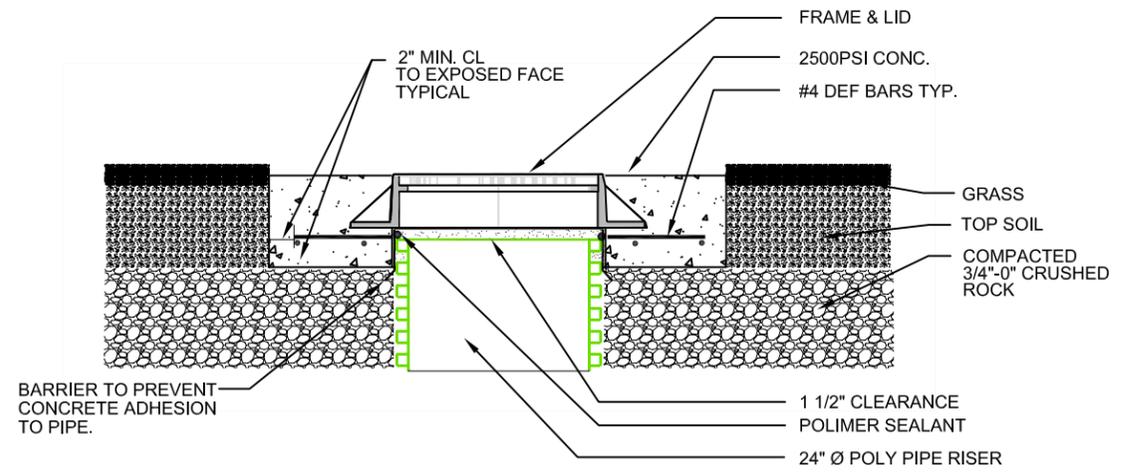
EXPIRATION DATE: 12-31-2016

SHEET

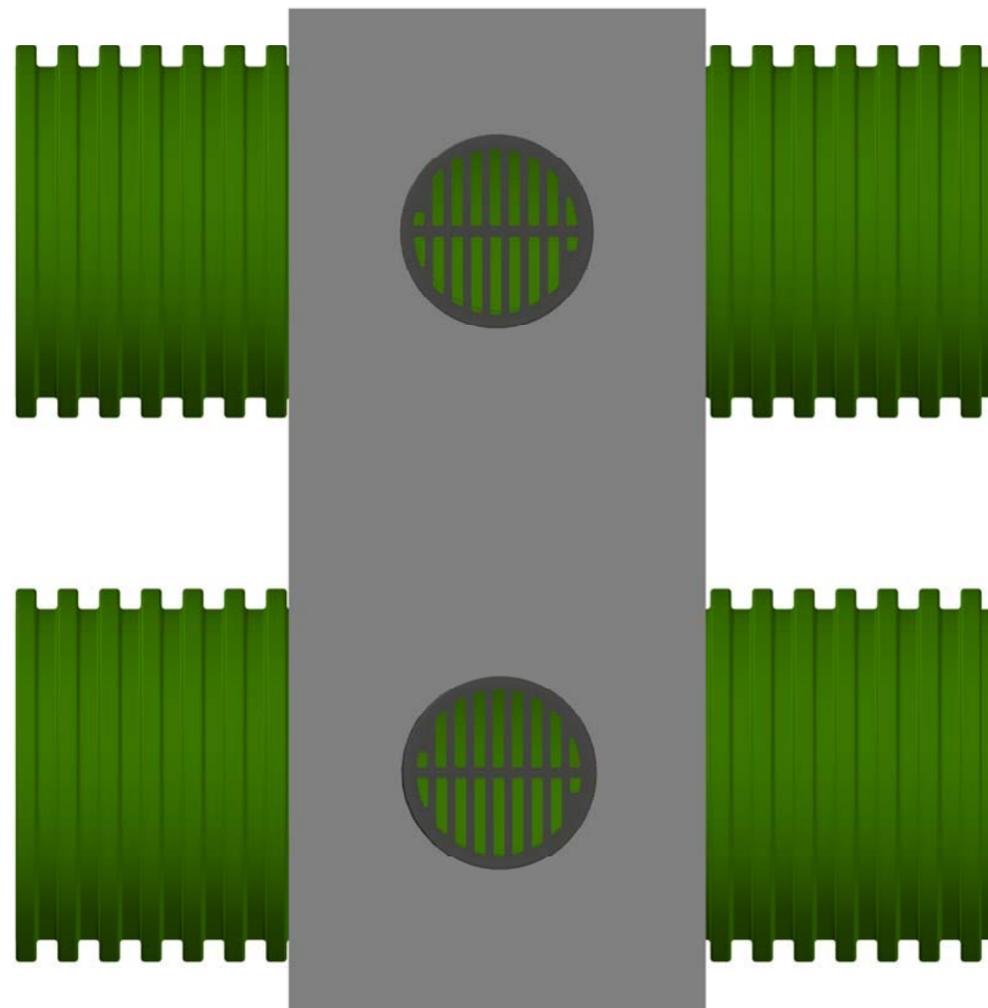
**D-3**



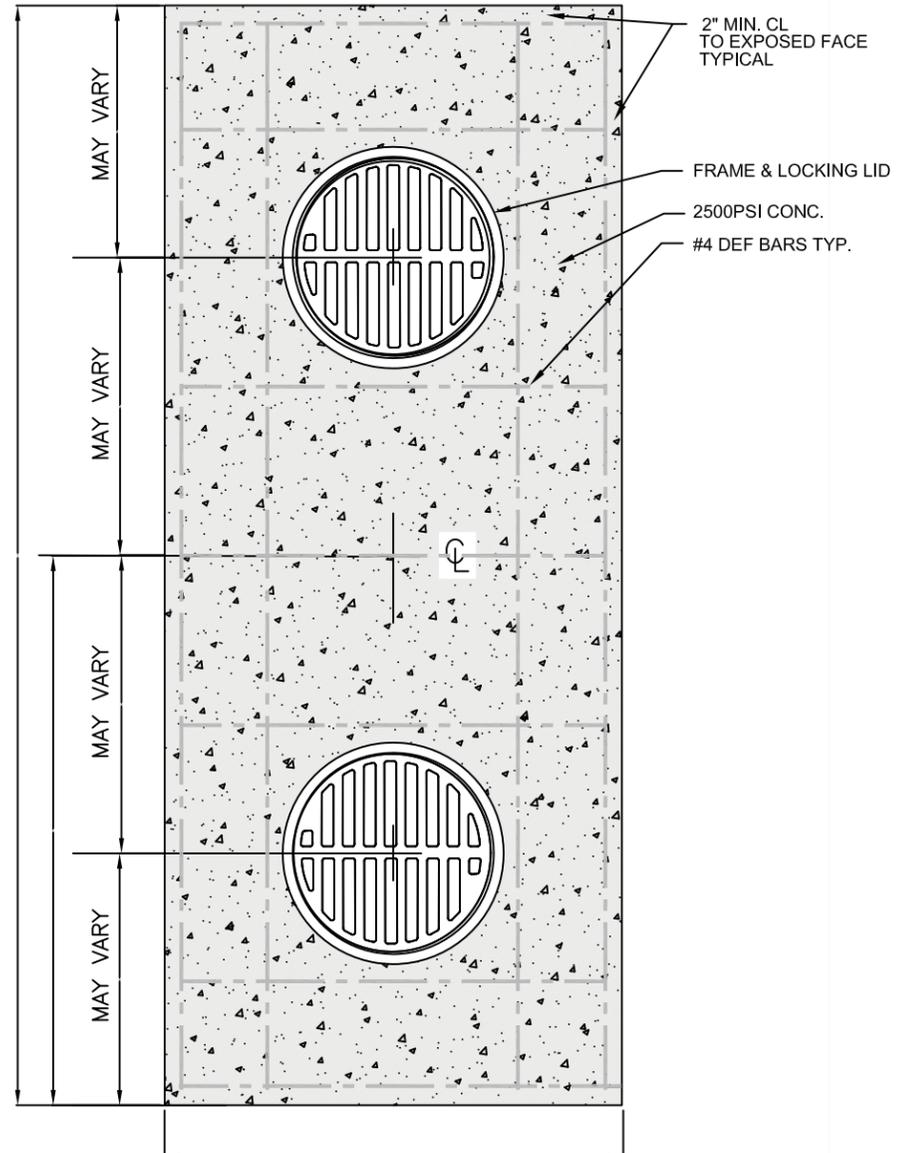
TYPICAL AREA DRAIN/ACCESS PIPE SECTION



TYPICAL AREA DRAIN/ACCESS POINT SECTION



TYPICAL AREA DRAIN/ACCESS POINT PLAN



TYPICAL AREA DRAIN/ACCESS POINT PLAN

No.	Revision/Issue	Date
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EXPIRATION DATE: 12-31-2016

SHEET

**D-4**

No.	Revision/Issue	Date

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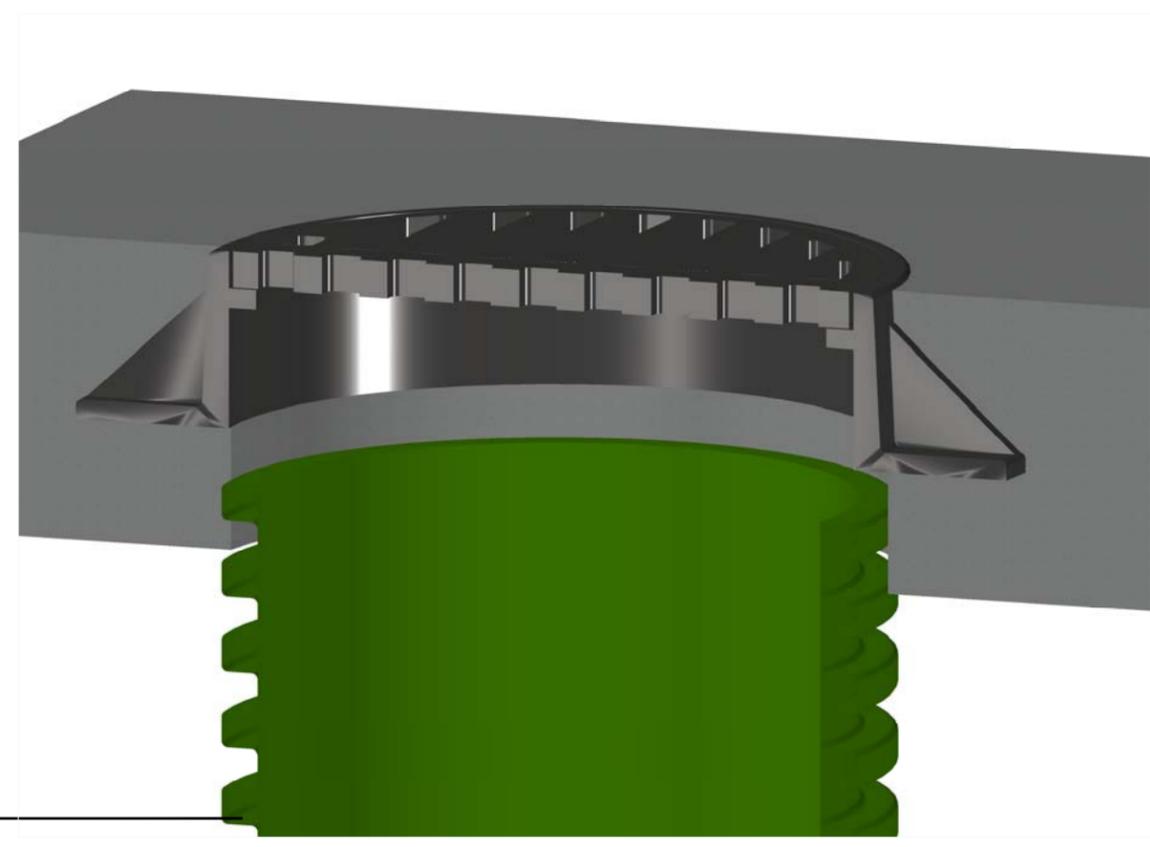
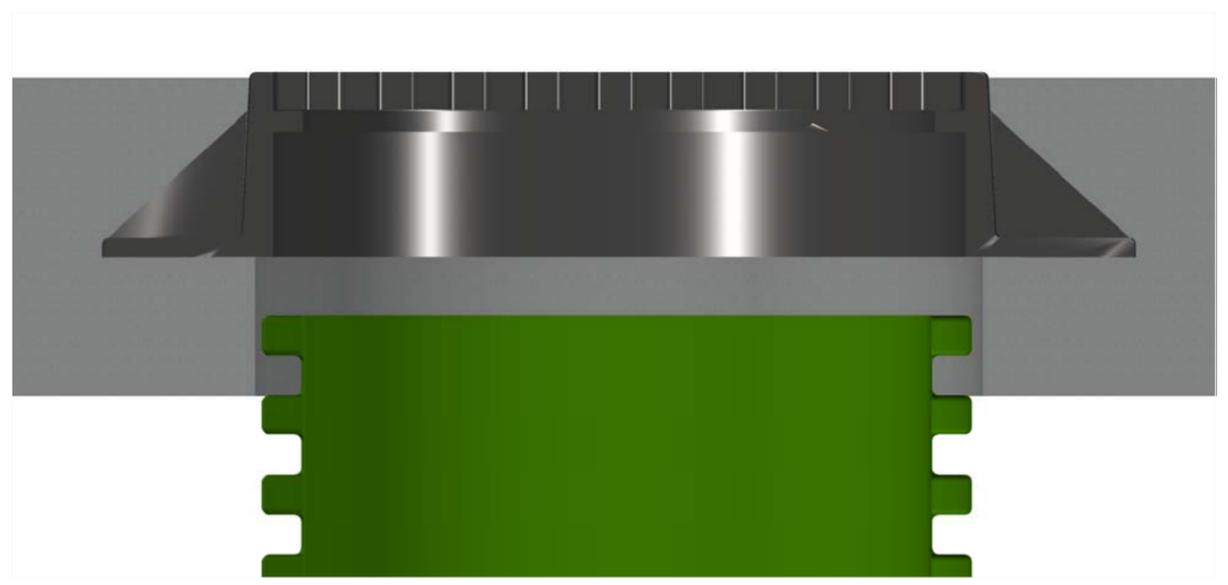
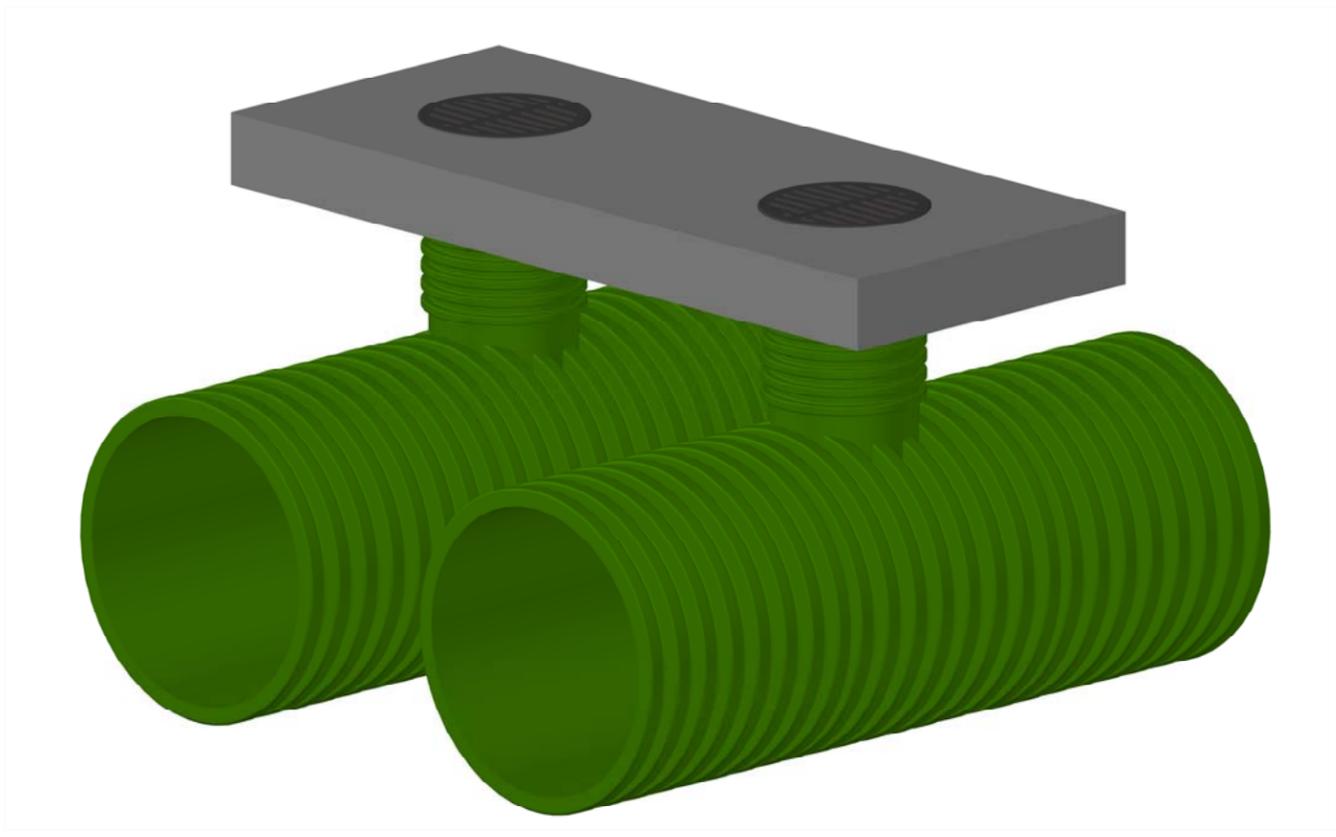
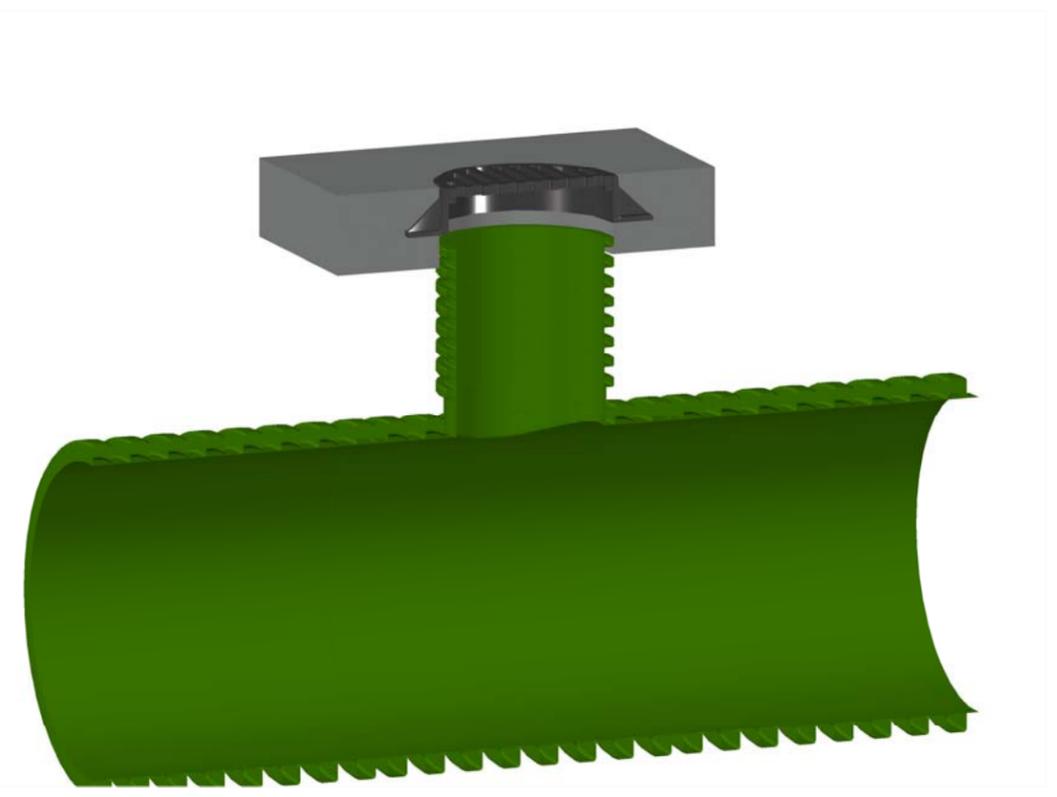
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EXPIRATION DATE: 12-31-2016

SHEET

**D-5**



**TYPICAL AREA DRAIN/ACCESS POINT**



No.	Revision/Issue	Date
DRAWN: RBK		

# NOTE:

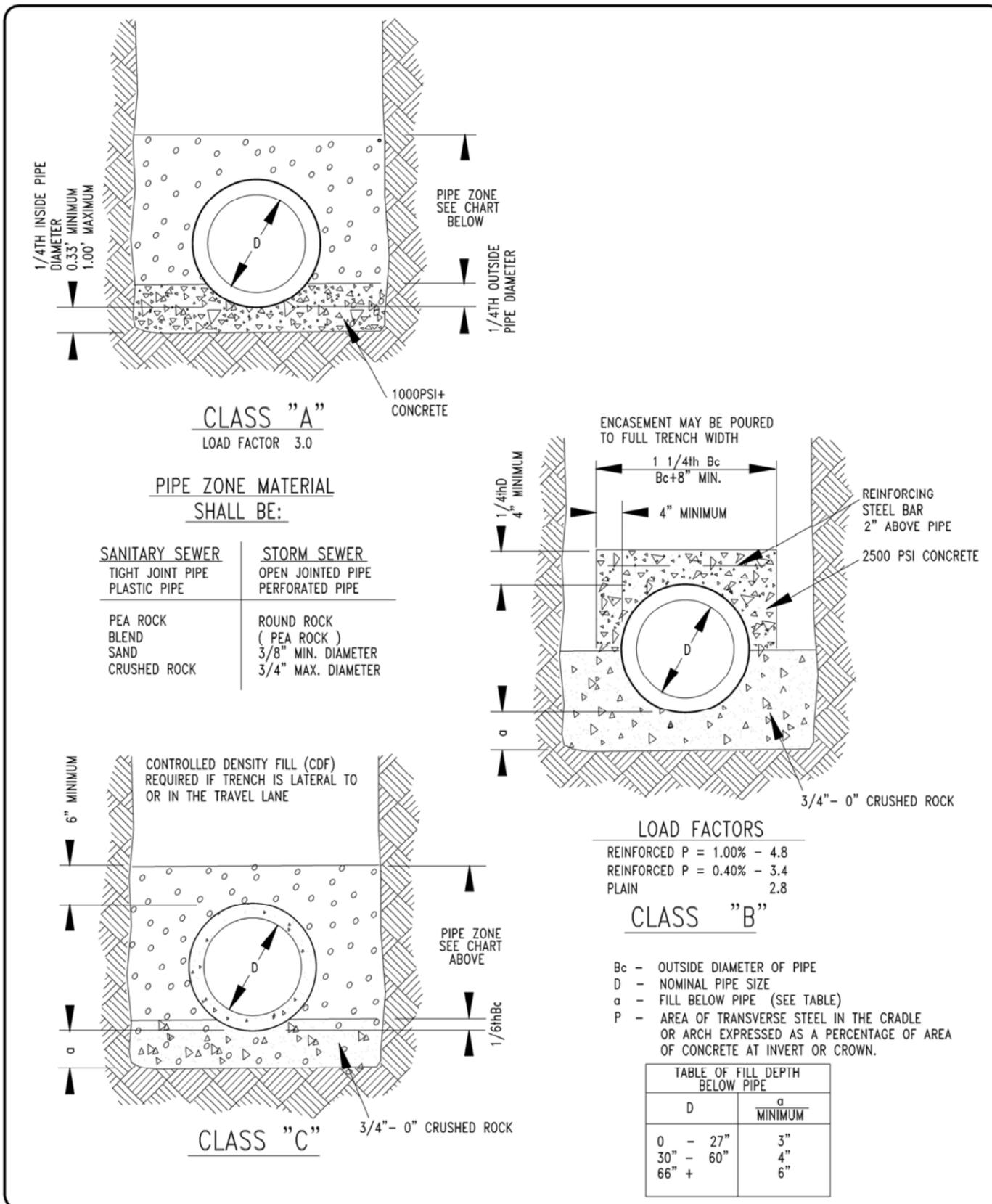
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NO	REVISION	DATE	BY	APPR.

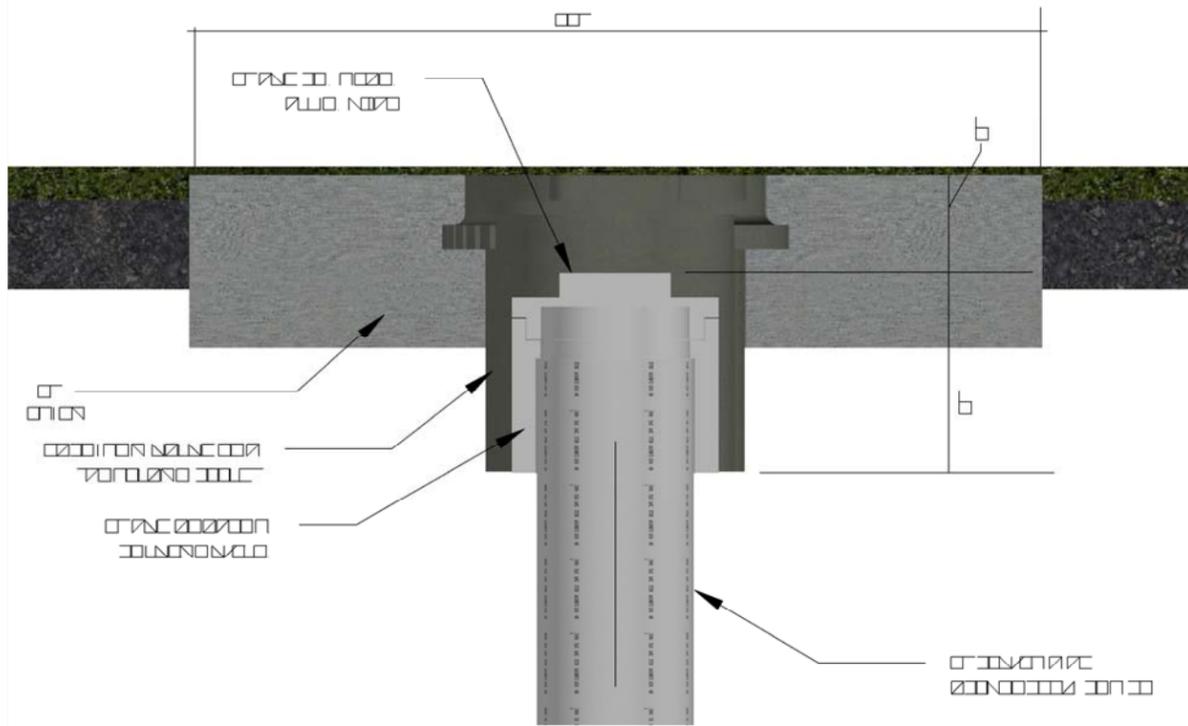
FILE: A.DWG

CITY OF SPRINGFIELD  
 DEPT. OF PUBLIC WORKS  
 225 FIFTH STREET  
 SPRINGFIELD, OR. 97477

**TYPICAL  
 PIPE ZONE AND PIPE BEDDING**

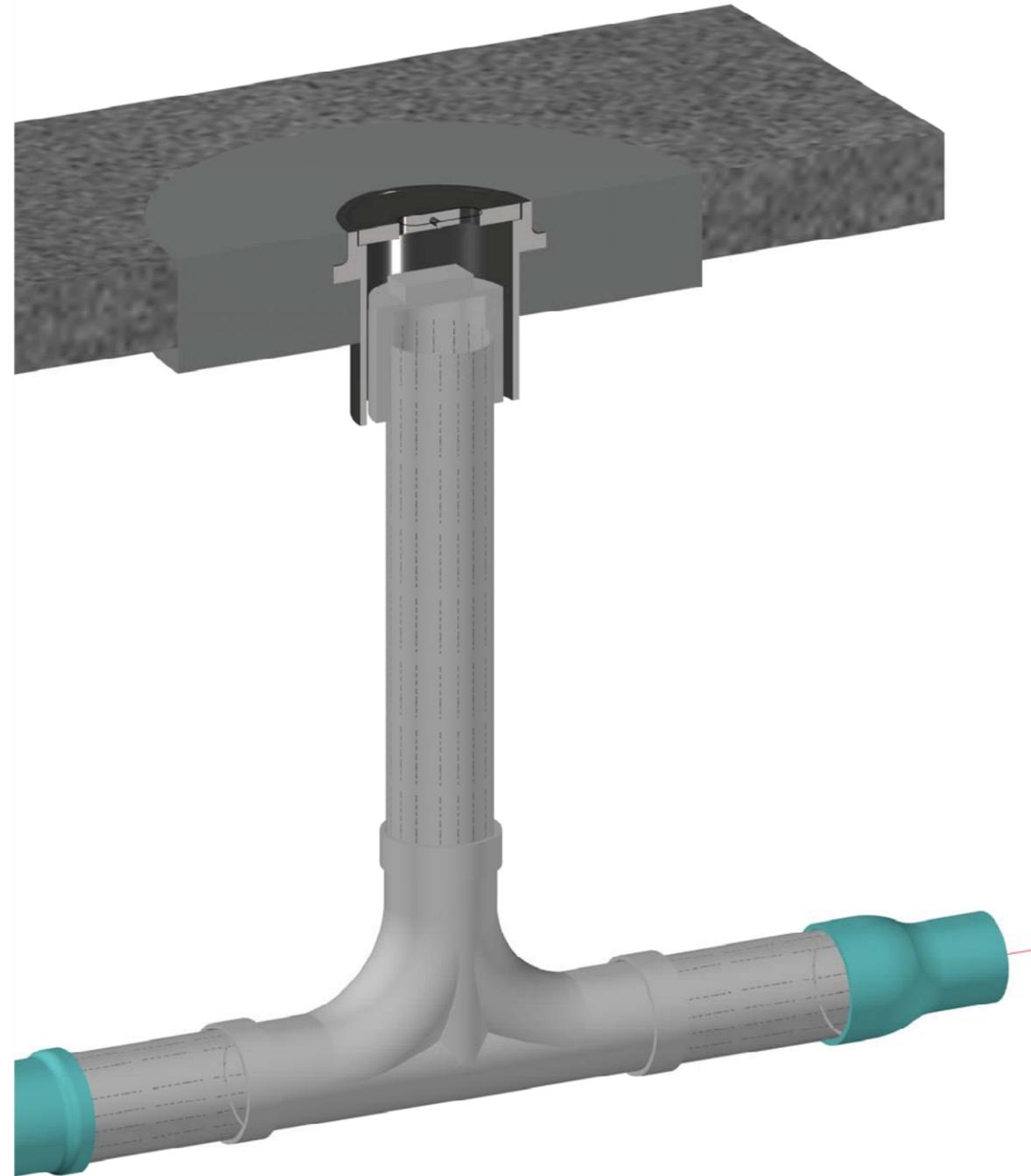
STANDARD DRAWING  
 4-17

REGISTERED PROFESSIONAL ENGINEER  
 54699PE  
 JEFFREY ALAN PASCHALL  
 JULY 15, 2003  
 EXPIRATION DATE: 12-31-2016



**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**

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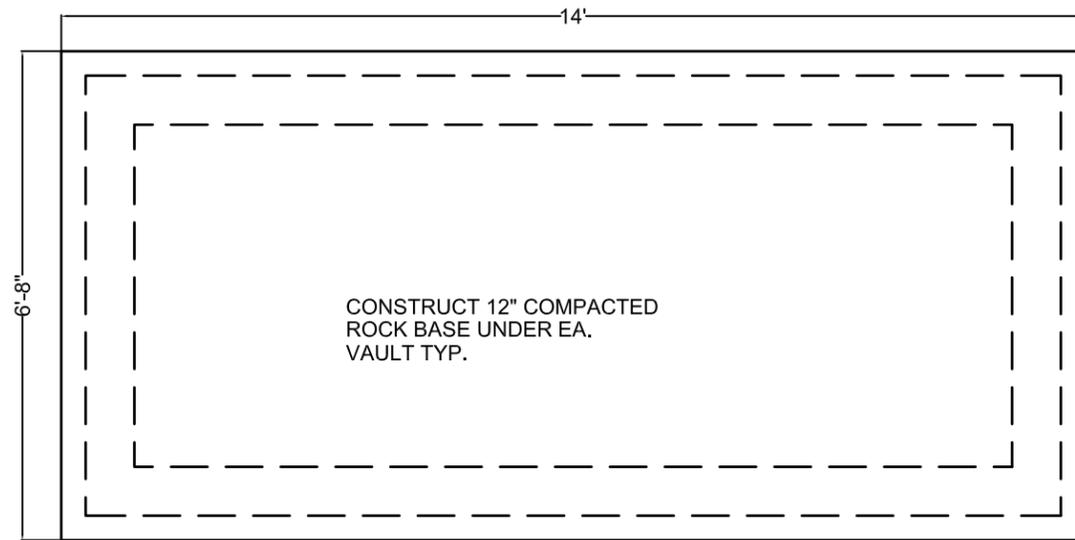
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REGISTERED PROFESSIONAL  
 ENGINEER  
 54699PE  
*Jeffrey Alan Paschall*  
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 JEFFREY ALAN PASCHALL

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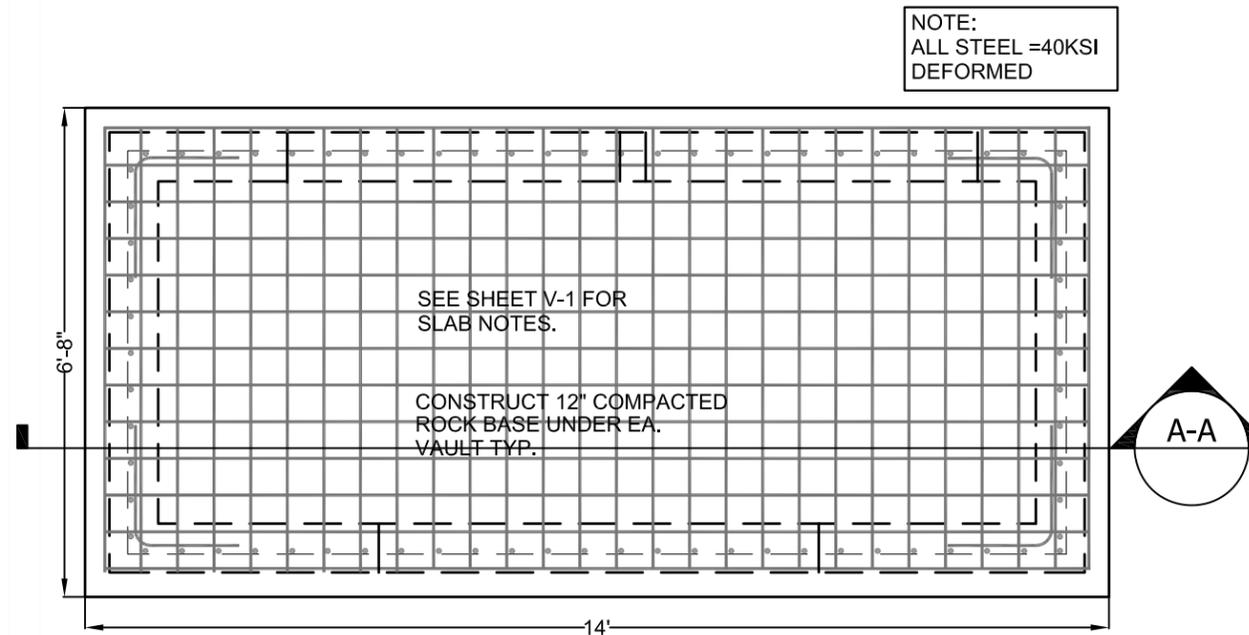
	<b>SHEET</b>
	<b>D-8</b>

# VAULT FOOTING/SLAB TYPICAL ALL LOCATIONS



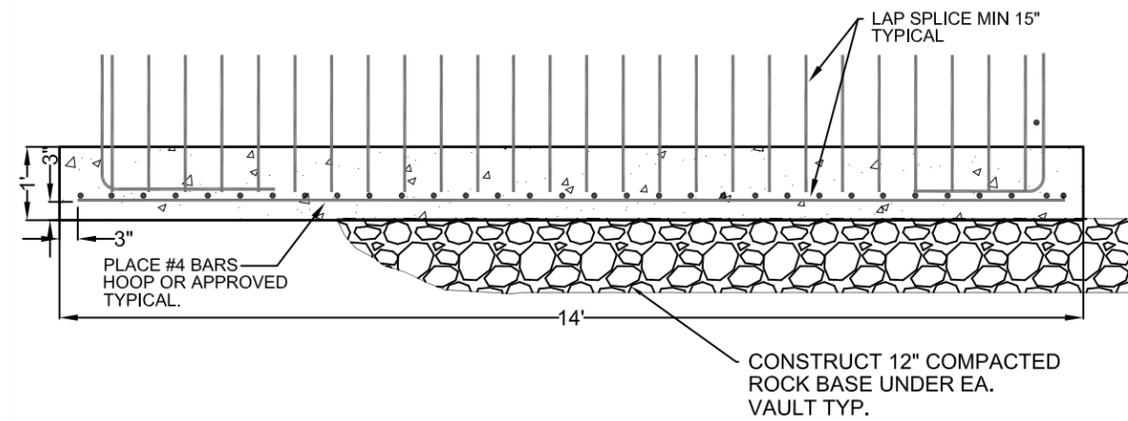
**PLAN**

N.T.S.



**PLAN**

N.T.S.



**SECTION A-A**

N.T.S.

NOTE:  
ALL STEEL =40KSI  
DEFORMED

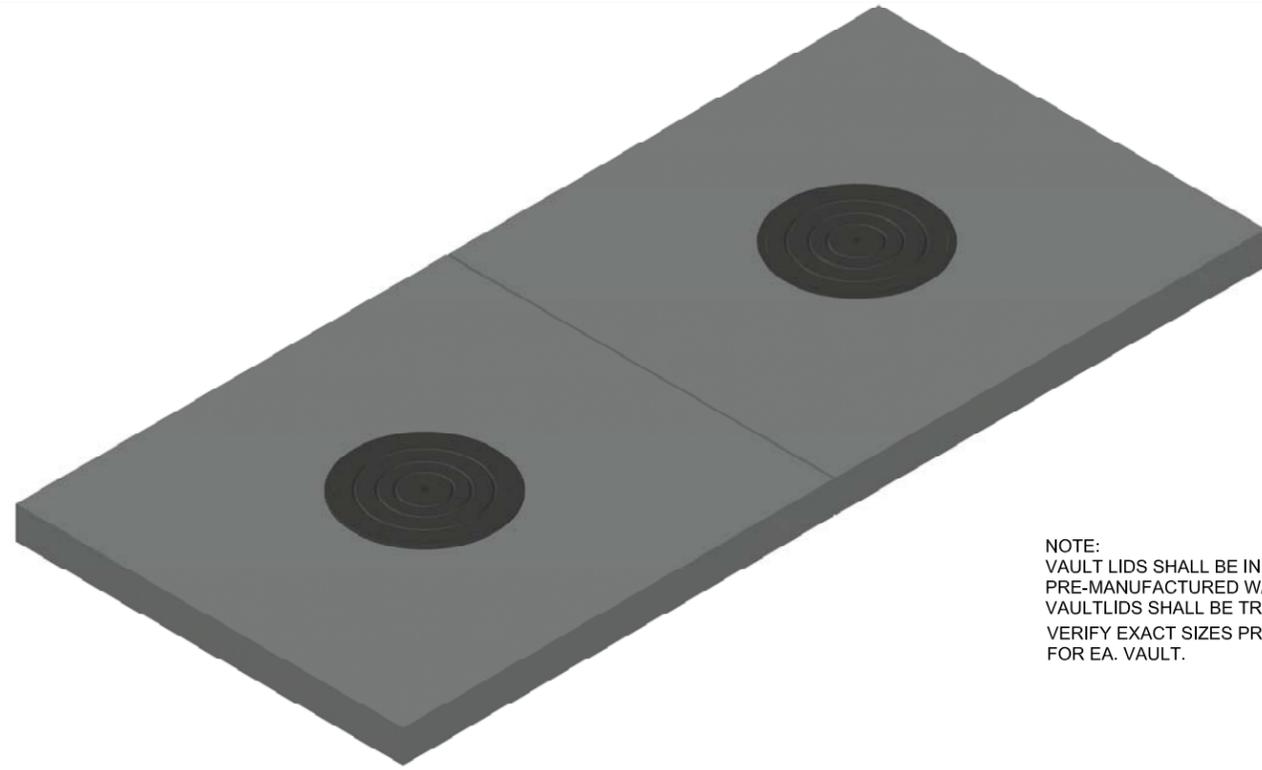
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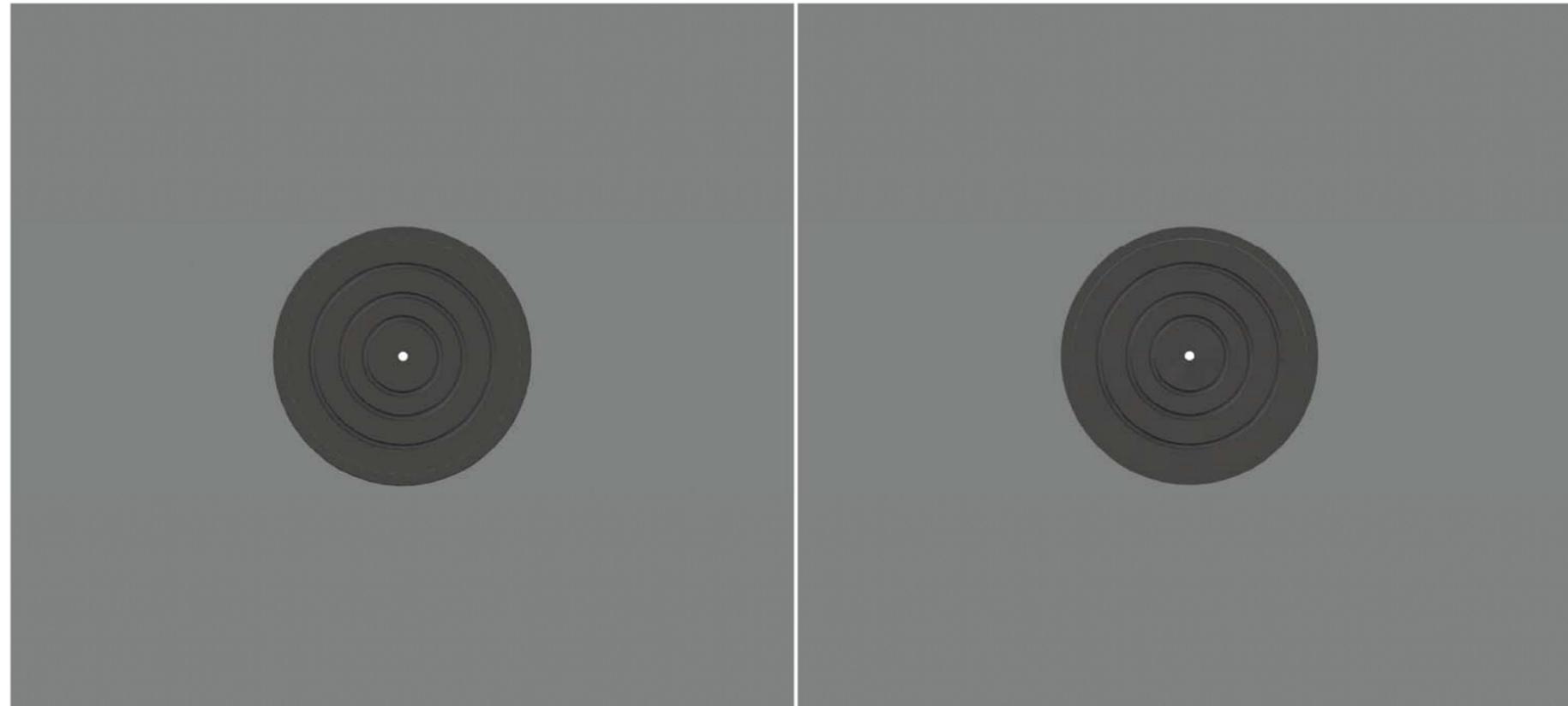
*City of Springfield*

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# VAULT LIDS (TRAFFIC RATED DESIGNED BY OTHERS)



NOTE:  
 VAULT LIDS SHALL BE IN TWO HALVES  
 PRE-MANUFACTURED W/FRAME AND LID.  
 VAULTLIDS SHALL BE TRAFFIC RATED.  
 VERIFY EXACT SIZES PRIOR TO ORDER  
 FOR EA. VAULT.



PLAN VIEW

N.T.S.

No.	Revision/Issue	Date
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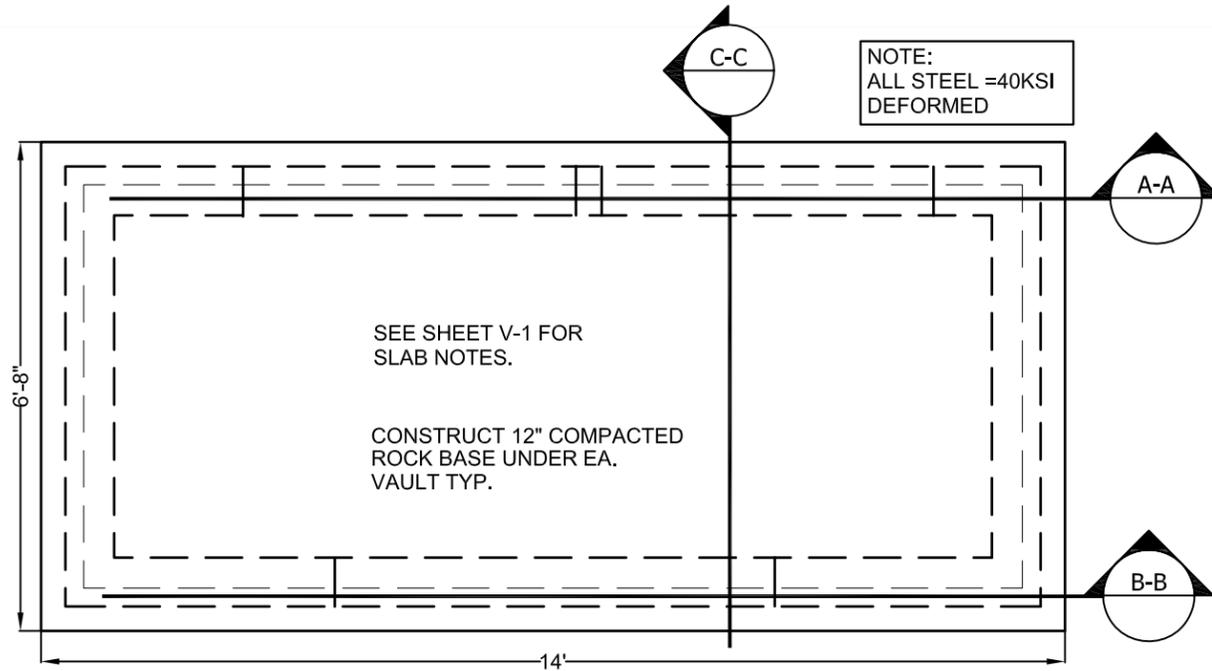


EXPIRATION DATE: 12-31-2016

SHEET

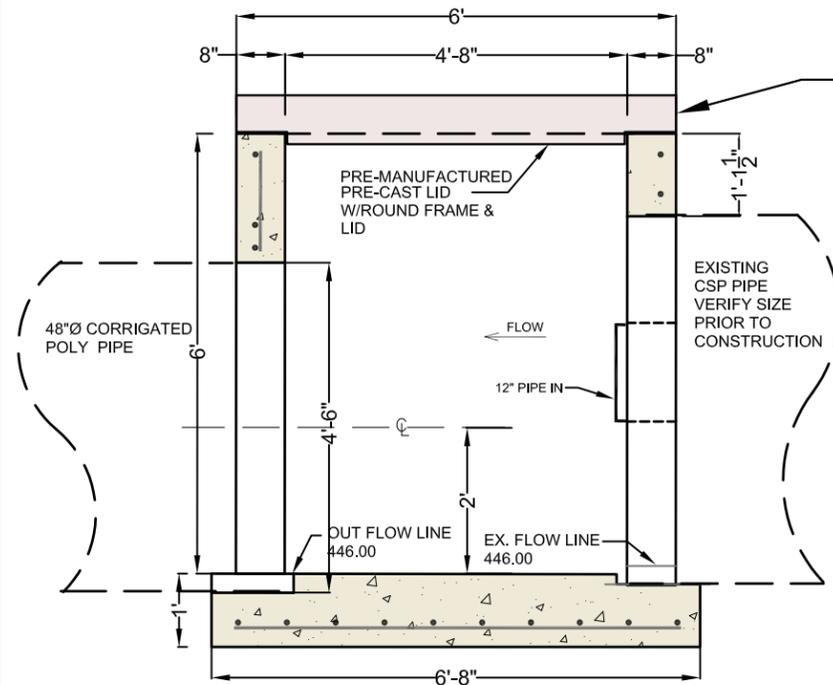
**V-2**

# VAULT AT CENTENNIAL BLVD STATION 0+21



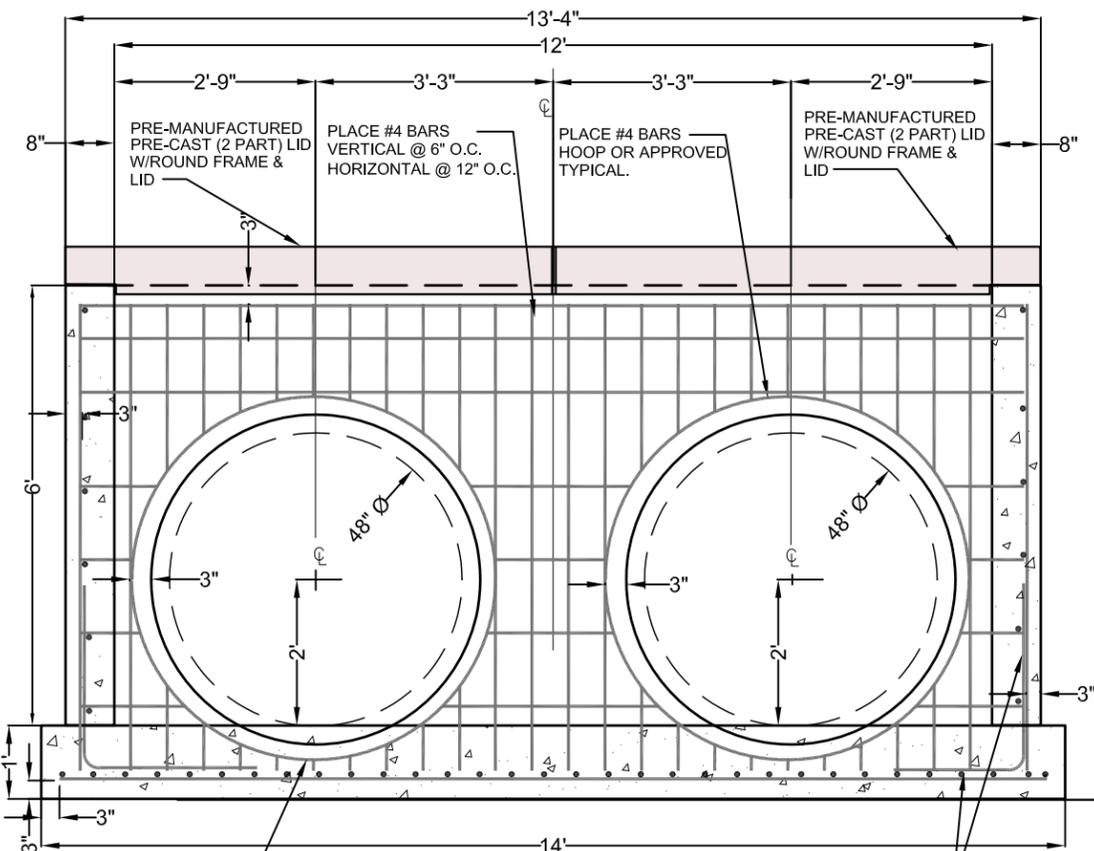
NOTE:  
ALL STEEL =40KSI  
DEFORMED

PLAN



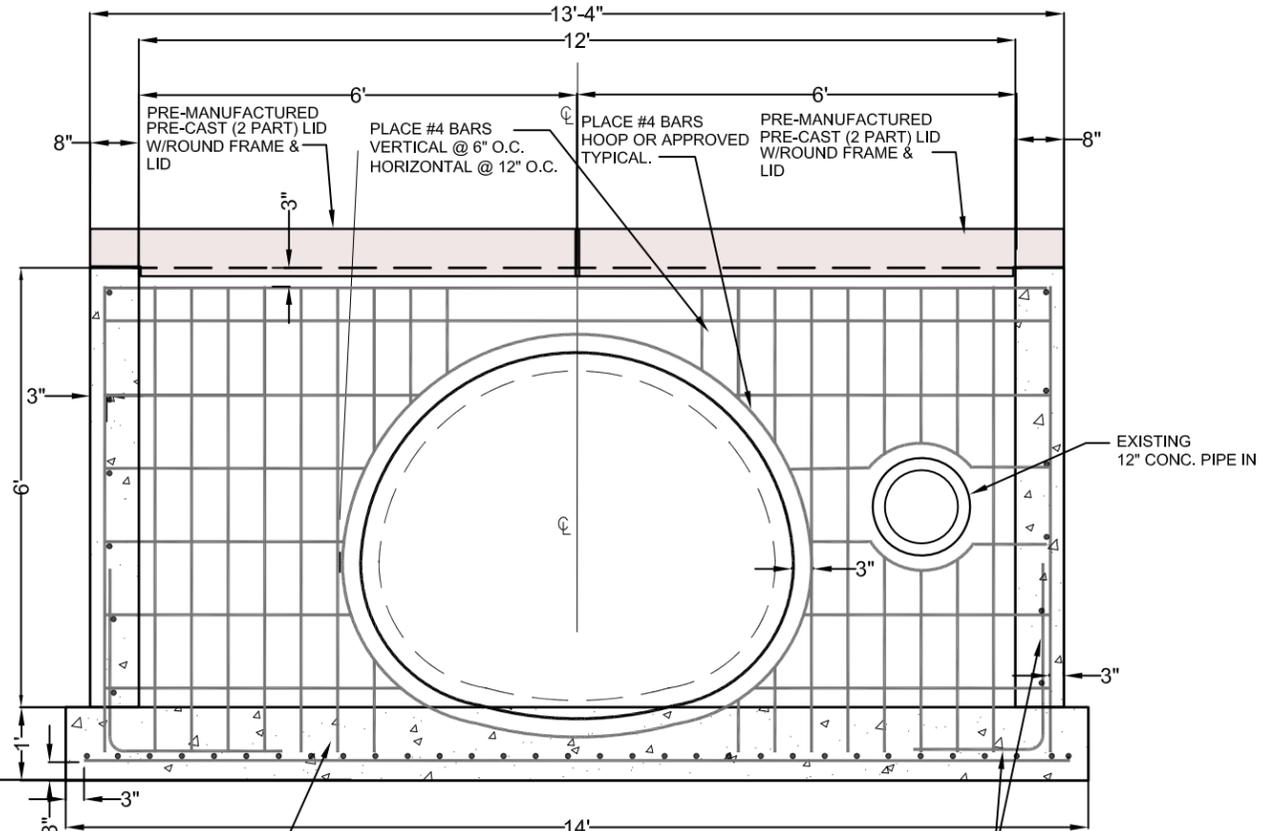
NOTE:  
VAULT LIDS SHALL BE IN TWO HALVES  
PREMANUFACTURED W/FRAME AND LID.  
LIDS SHALL BE TRAFFIC RATED.  
VERIFY EXACT SIZES PRIOR TO ORDER  
FOR EA. VAULT.

SECTION C-C



SECTION A-A

LAP SPLICE MIN 15" TYPICAL



SECTION B-B

LAP SPLICE MIN 15" TYPICAL

No.	Revision/Issue	Date
DRAWN: RBK		

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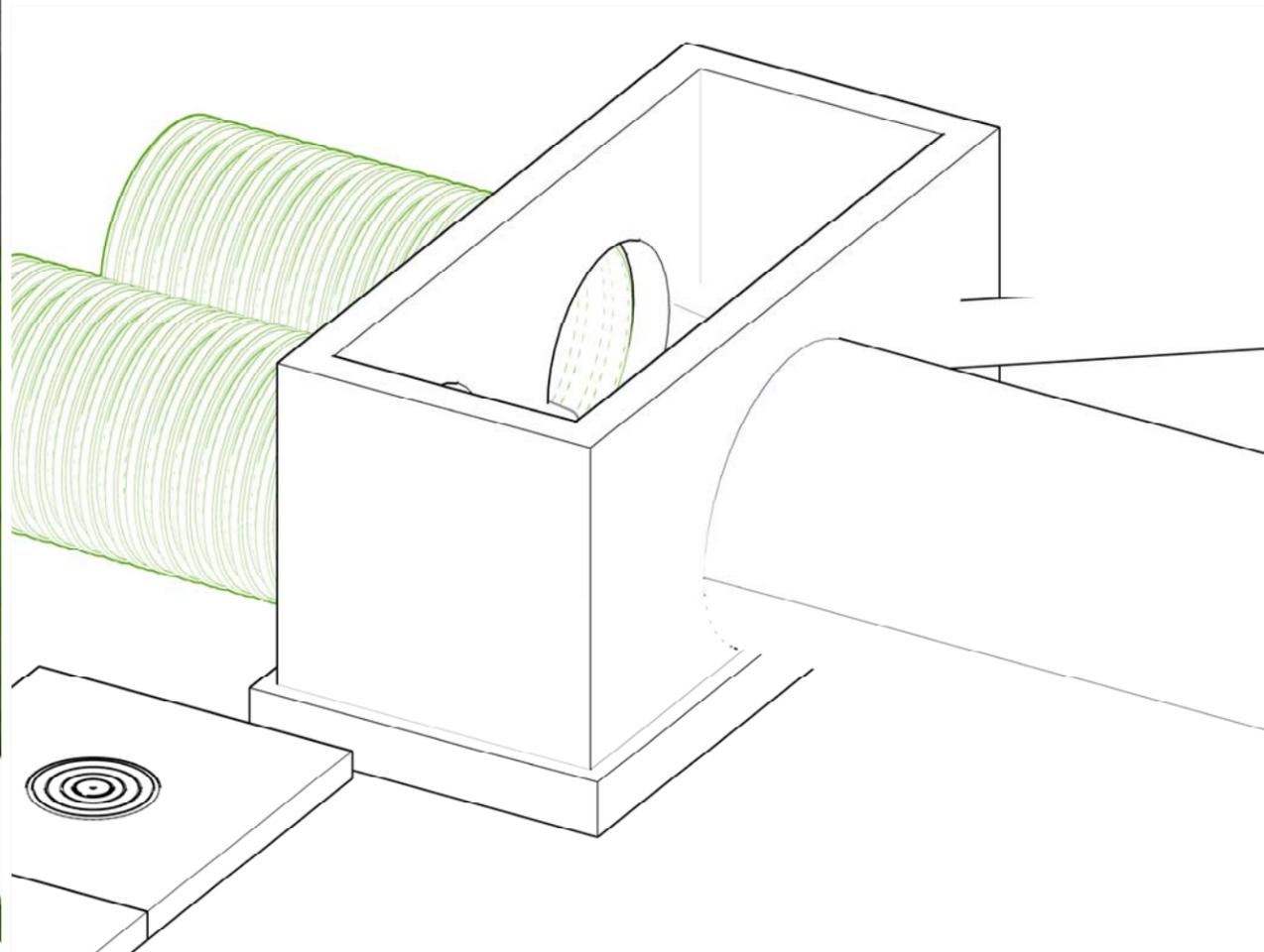
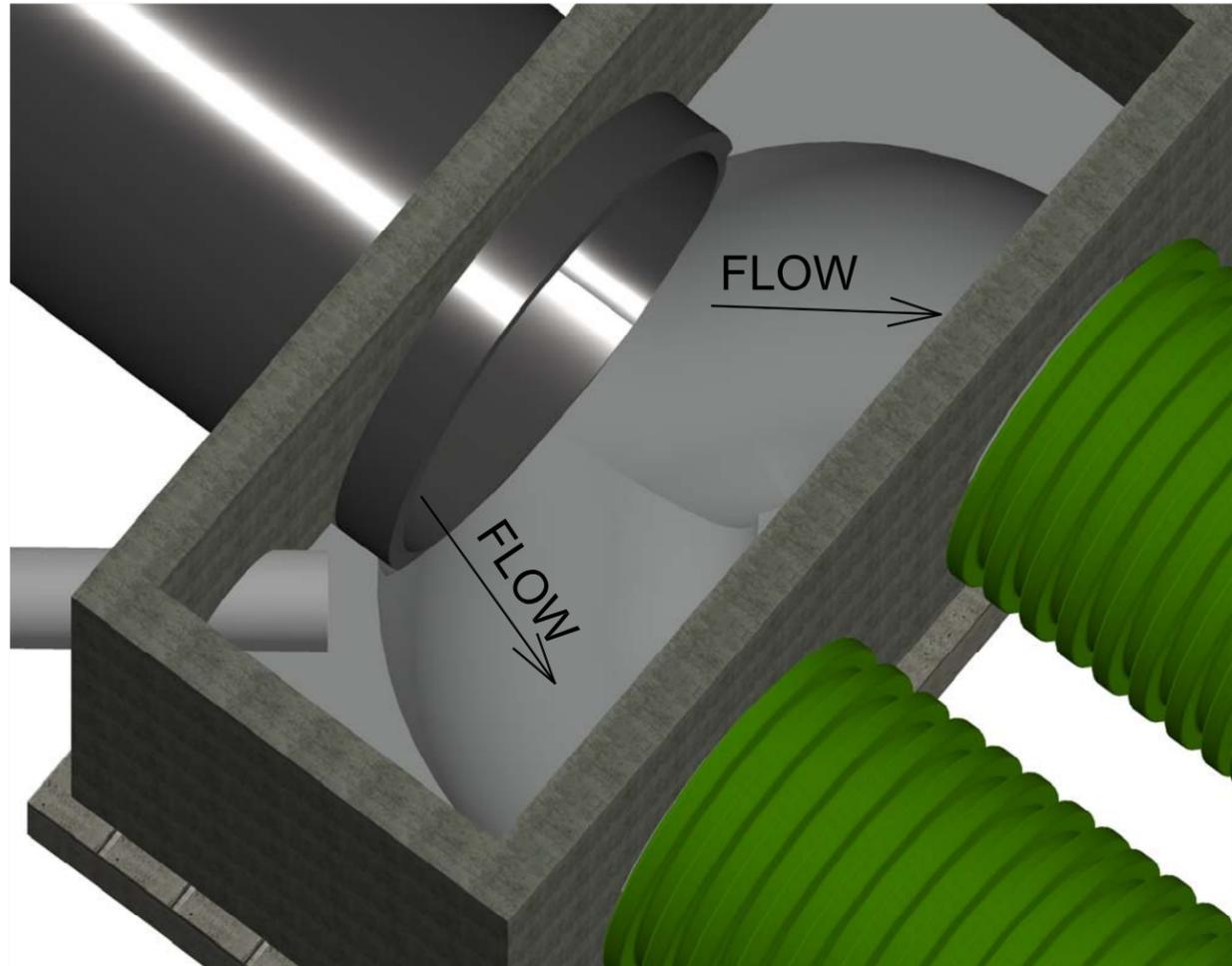
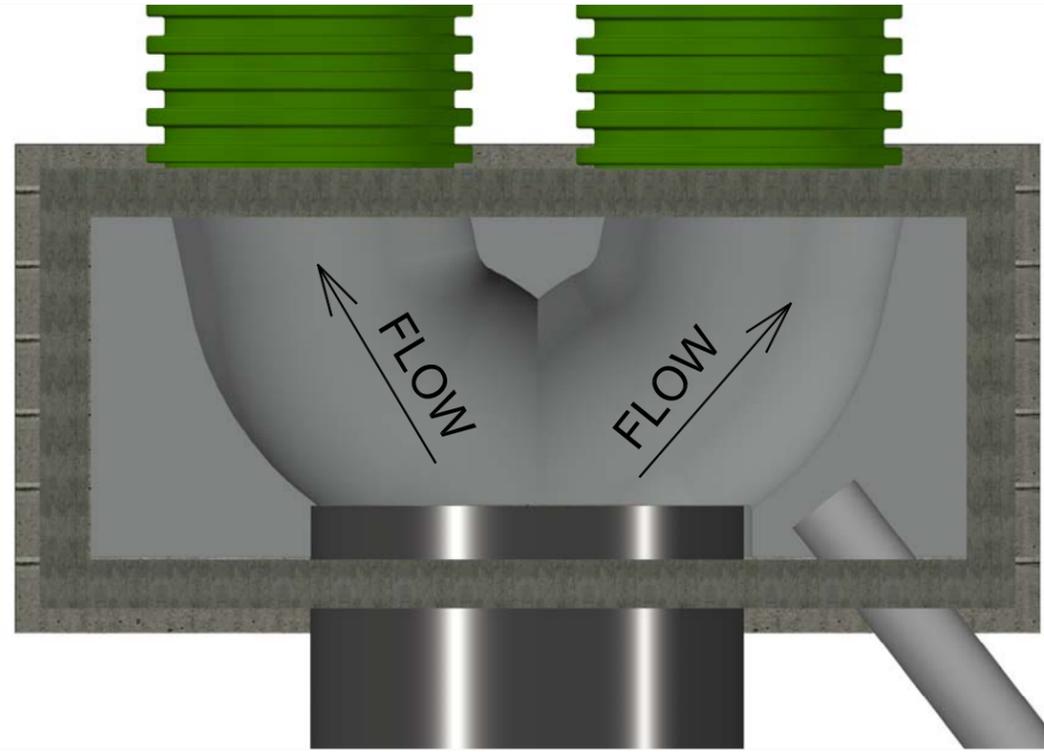
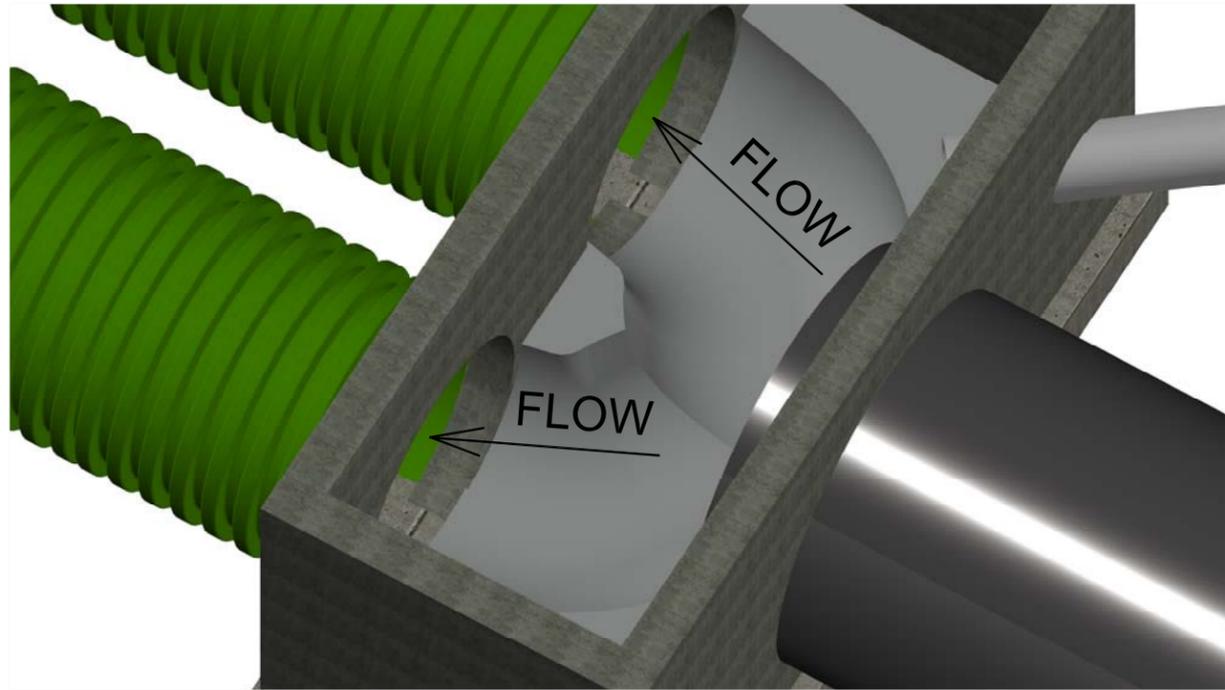
**PROJECT: P21106 OVER/UNDER CMP PIPE REPLACEMENT  
PHASE 1 PIPE CONSTRUCTION**

*City of Springfield*  
PUBLIC WORKS / ENGINEERING  
225 FIFTH STREET, SPRINGFIELD, OR 97477  
PHONE: (503) 333-3333 FAX: (503) 336-1021  
INTERNET: www.cityofspringfield.or.us

REGISTERED PROFESSIONAL  
ENGINEER  
54699PE  
OREGON  
JULY 15, 2003  
JEFFREY ALAN PASCHALL

EXPIRATION DATE: 12-31-2016

# VAULT AT CENTENNIAL BLVD STATION 0+21



No.	Revision/Issue	Date
DRAWN: RBK		

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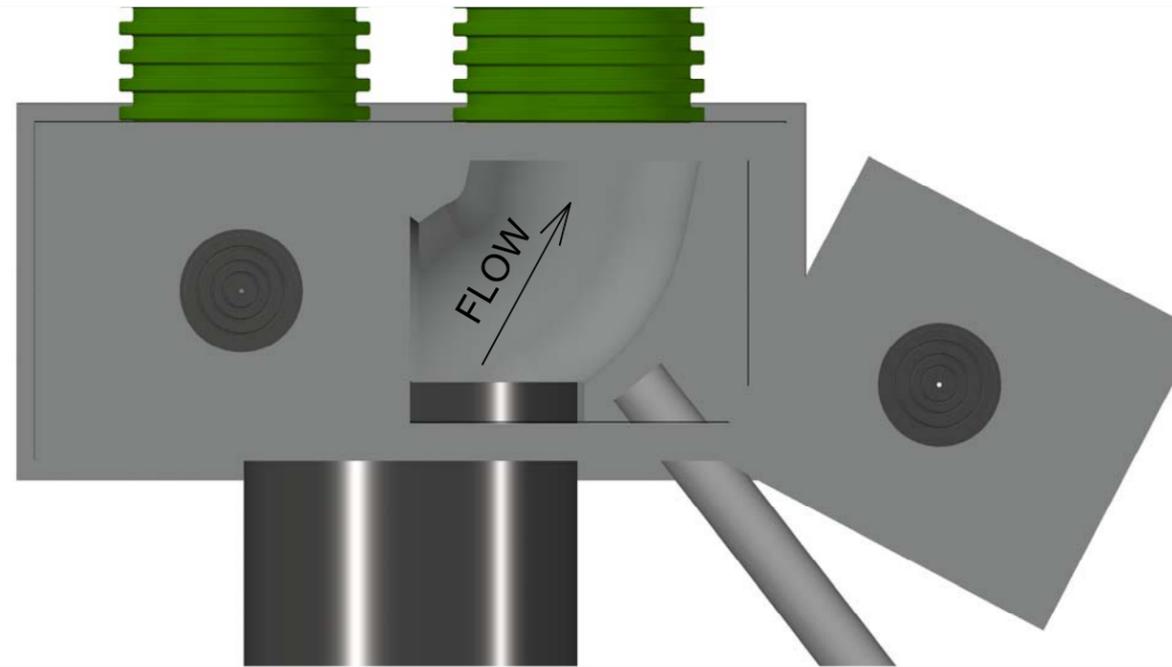
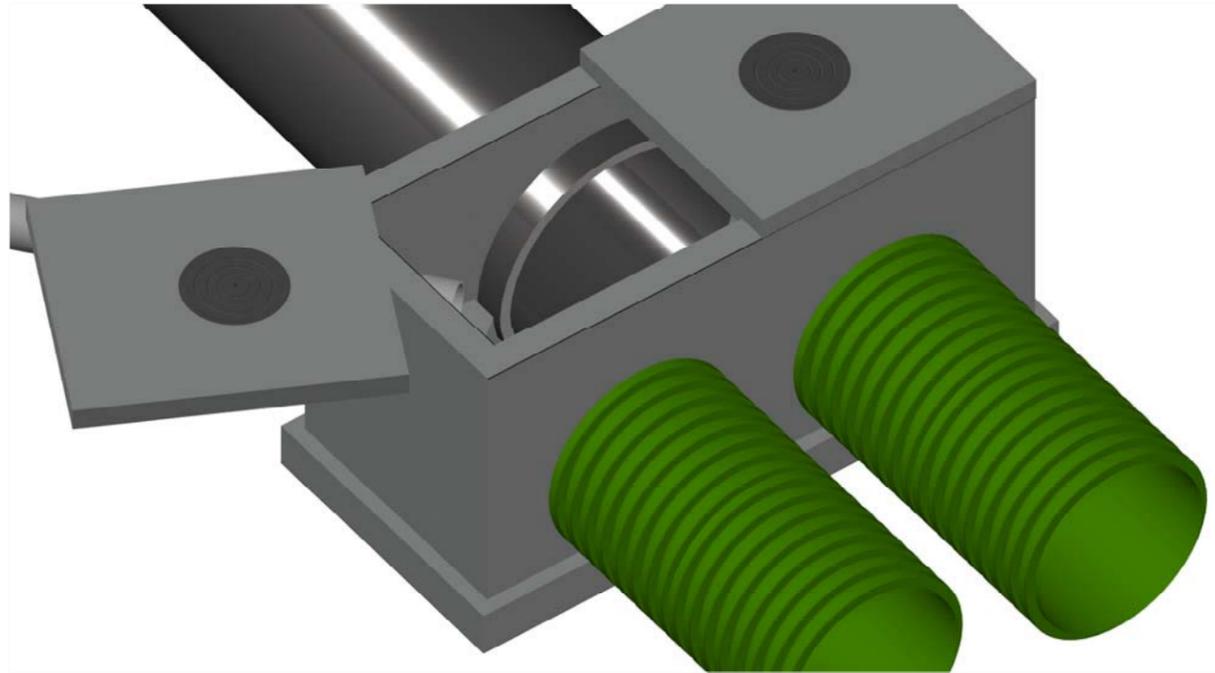


EXPIRATION DATE: 12-31-2016

SHEET

V-4

# VAULT AT CENTENNIAL BLVD STATION 0+21



No.	Revision/Issue	Date
DRAWN: RBK		

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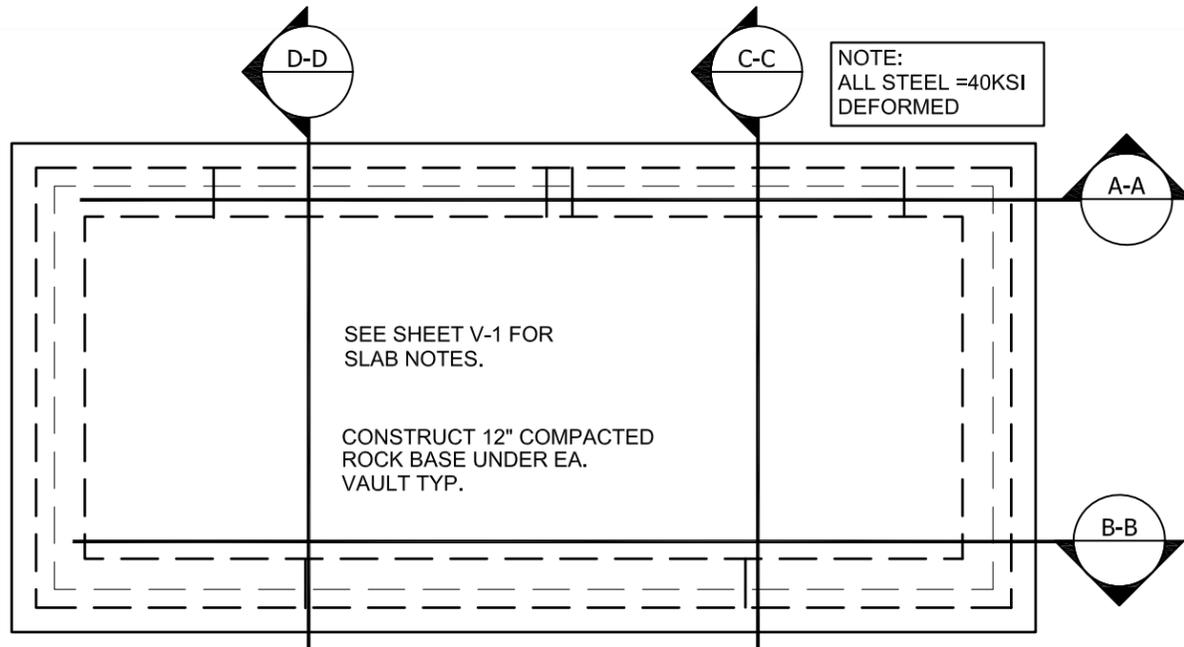


EXPIRATION DATE: 12-31-2016

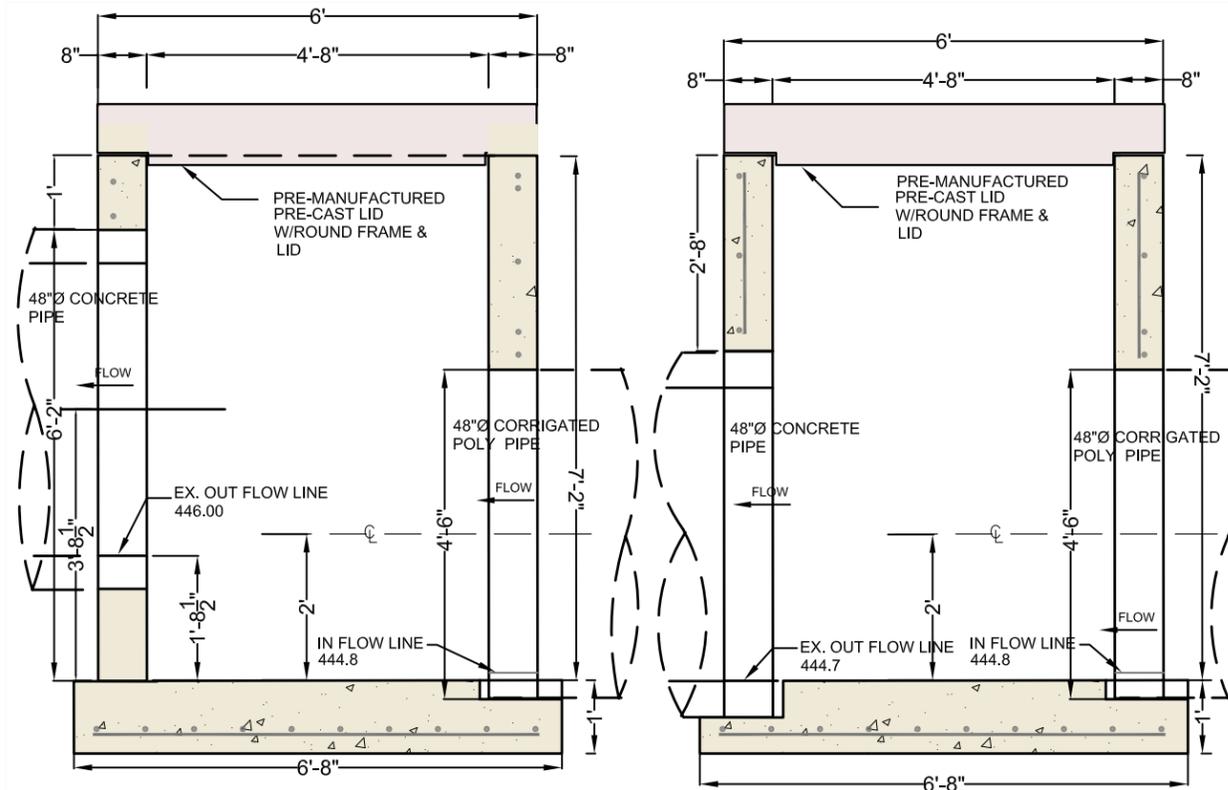
SHEET

**V-5**

# VAULT AT 5th & 'M' STREETS STATION 12+40

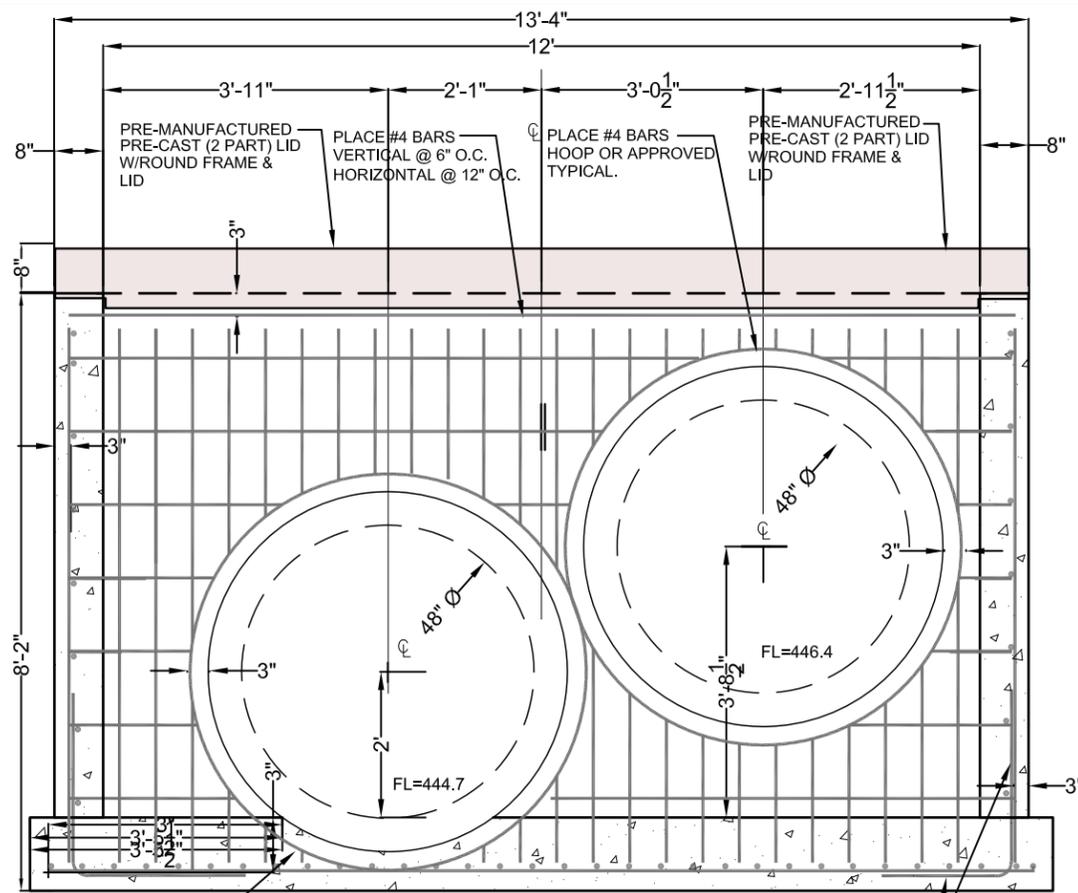


PLAN

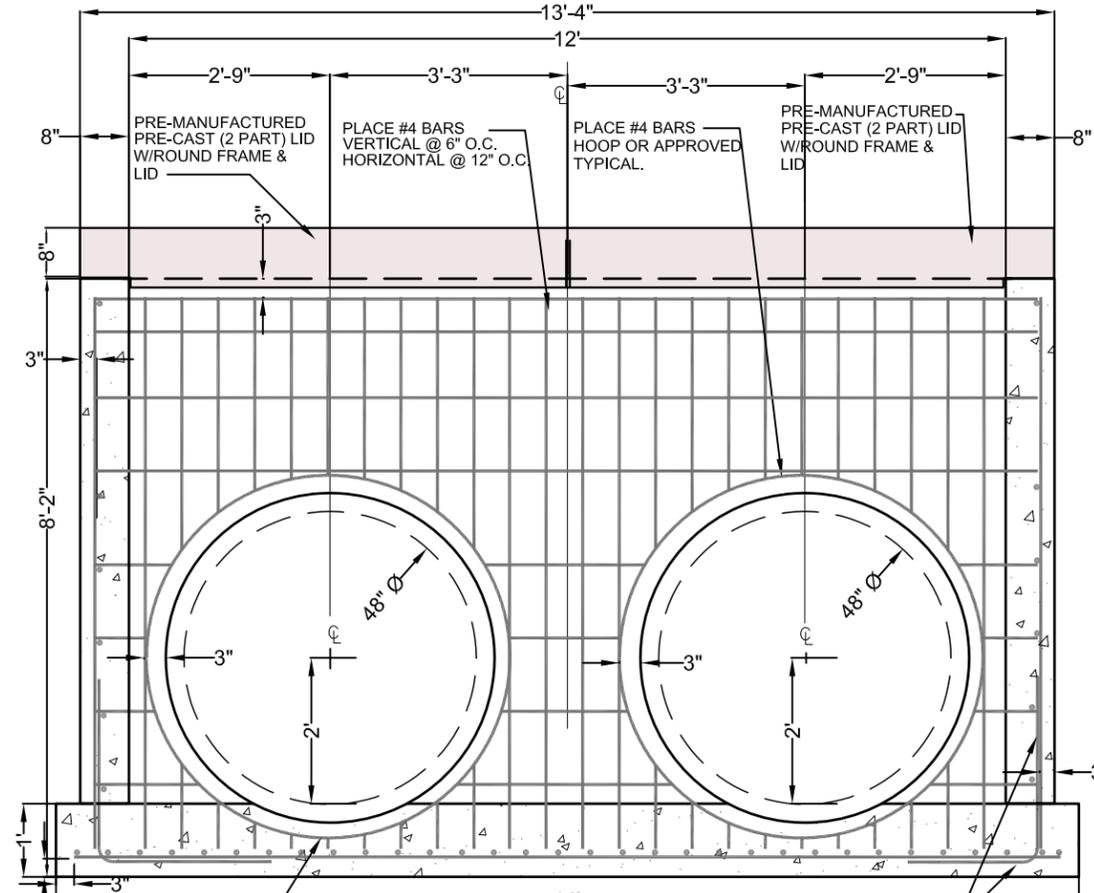


SECTION C-C

SECTION D-D



A-A WEST WALL



B-B EAST WALL

No.	Revision/Issue	Date
DRAWN: RBK		

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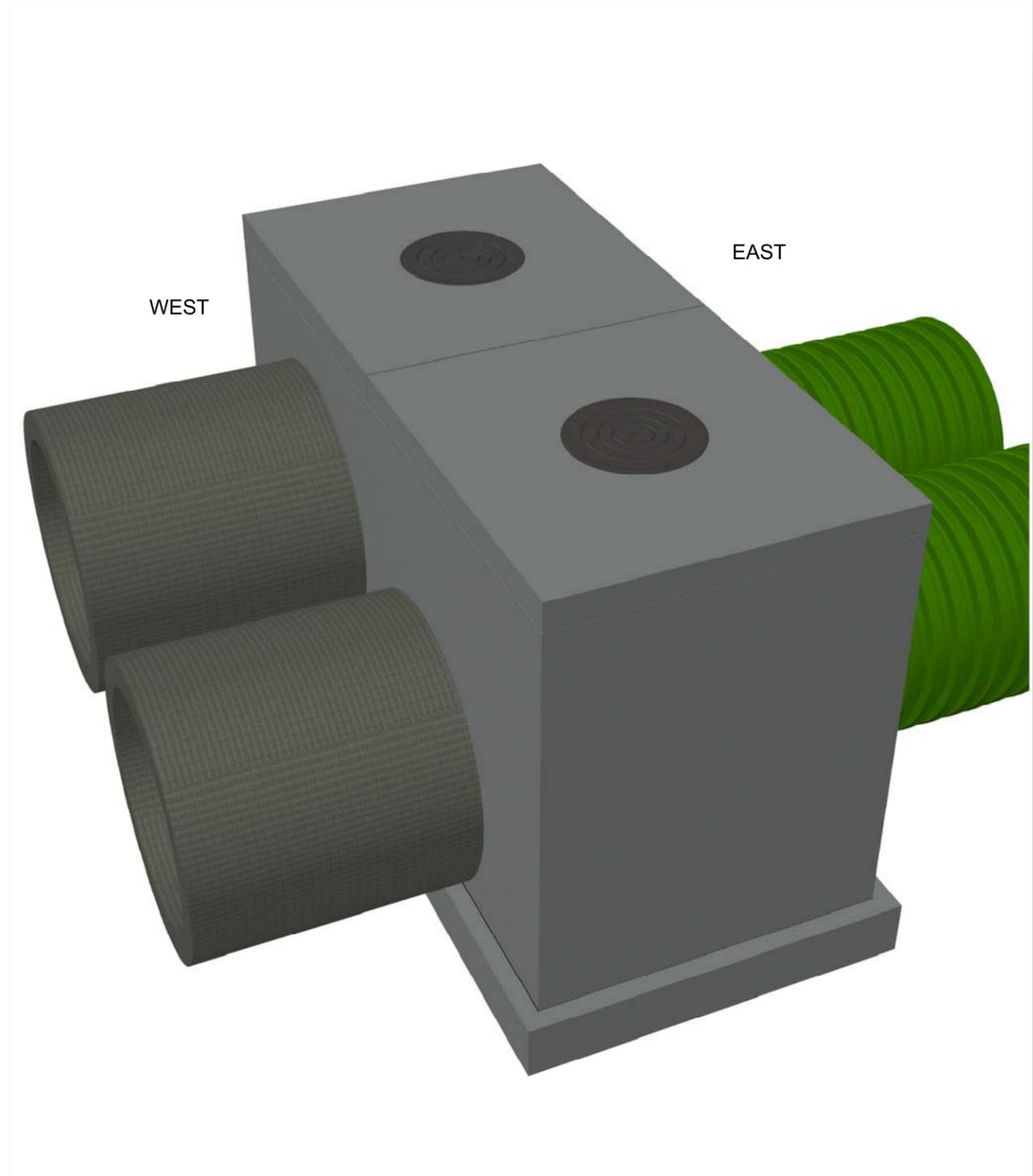
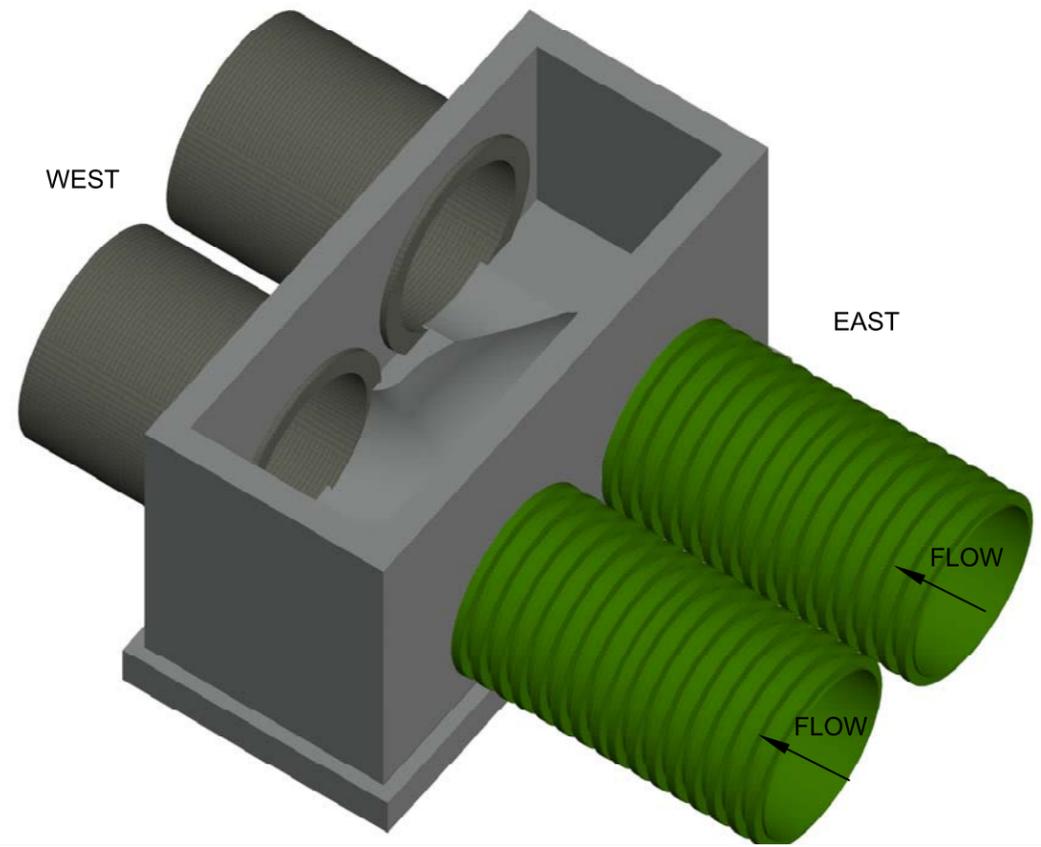
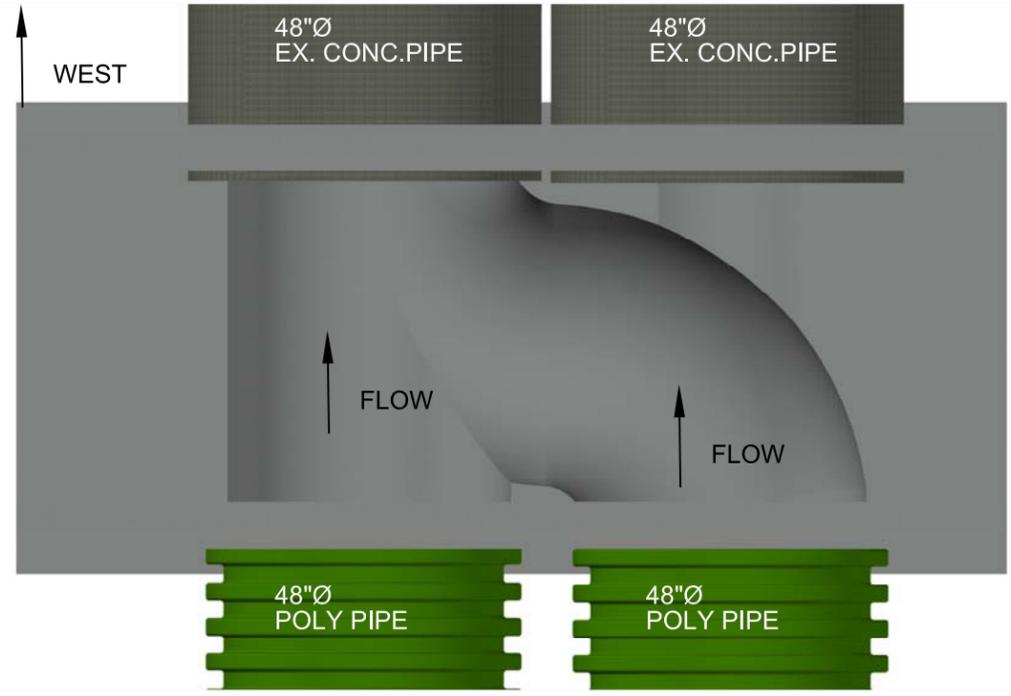


EXPIRATION DATE: 12-31-2016

SHEET

V-6

# VAULT AT 5th & 'M' STREETS STATION 10+67



No.	Revision/Issue	Date
DRAWN: RBK		

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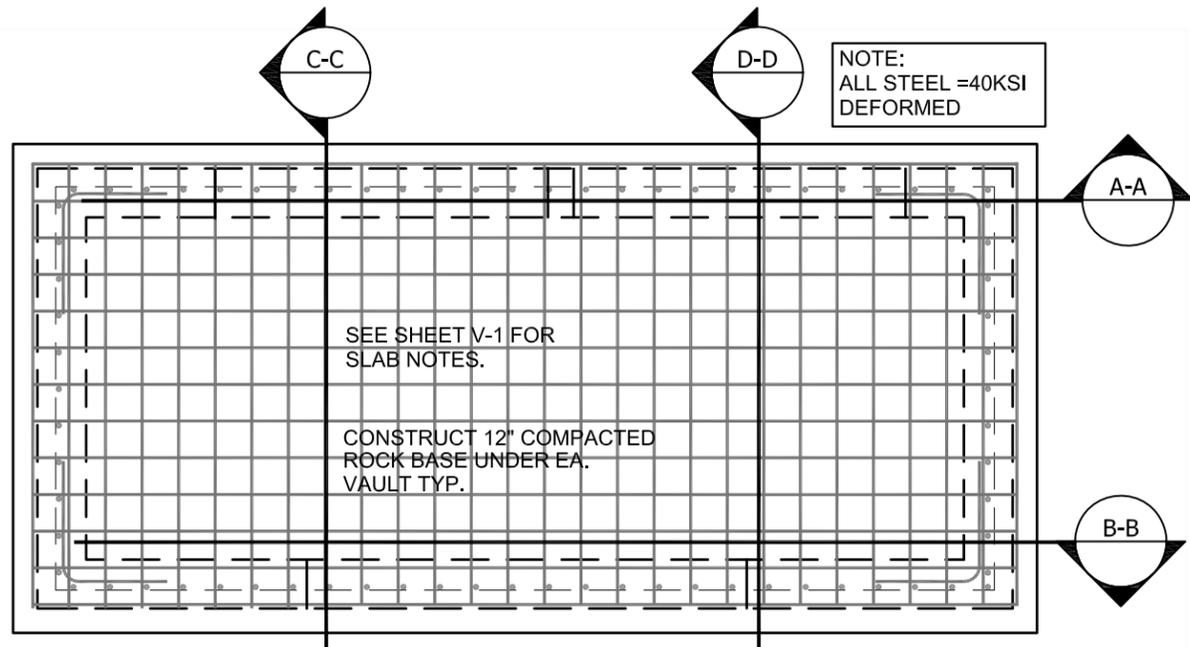
*City of Springfield*

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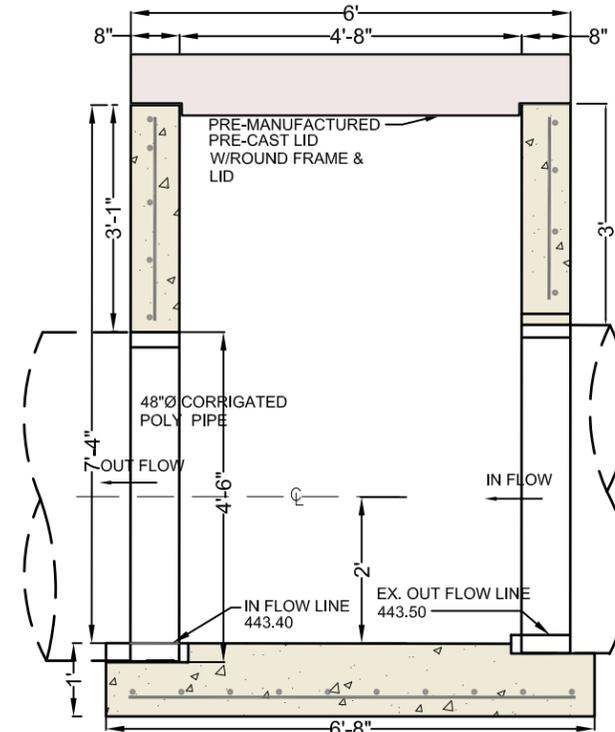
REGISTERED PROFESSIONAL  
 ENGINEER  
 54699PE  
*Jeffrey Alan Paschall*  
 OREGON  
 JULY 15, 2003  
 JEFFREY ALAN PASCHALL

EXPIRATION DATE: 12-31-2016

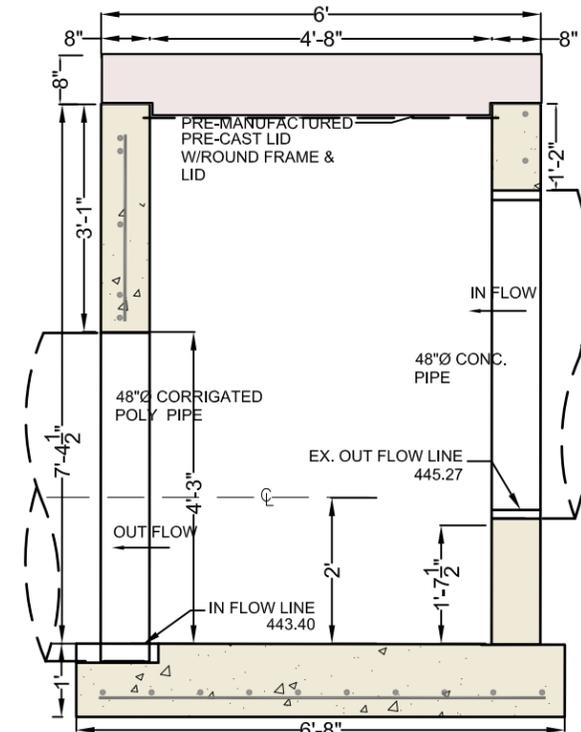
# VAULT AT 5th & 'M' STREETS STATION 12+40



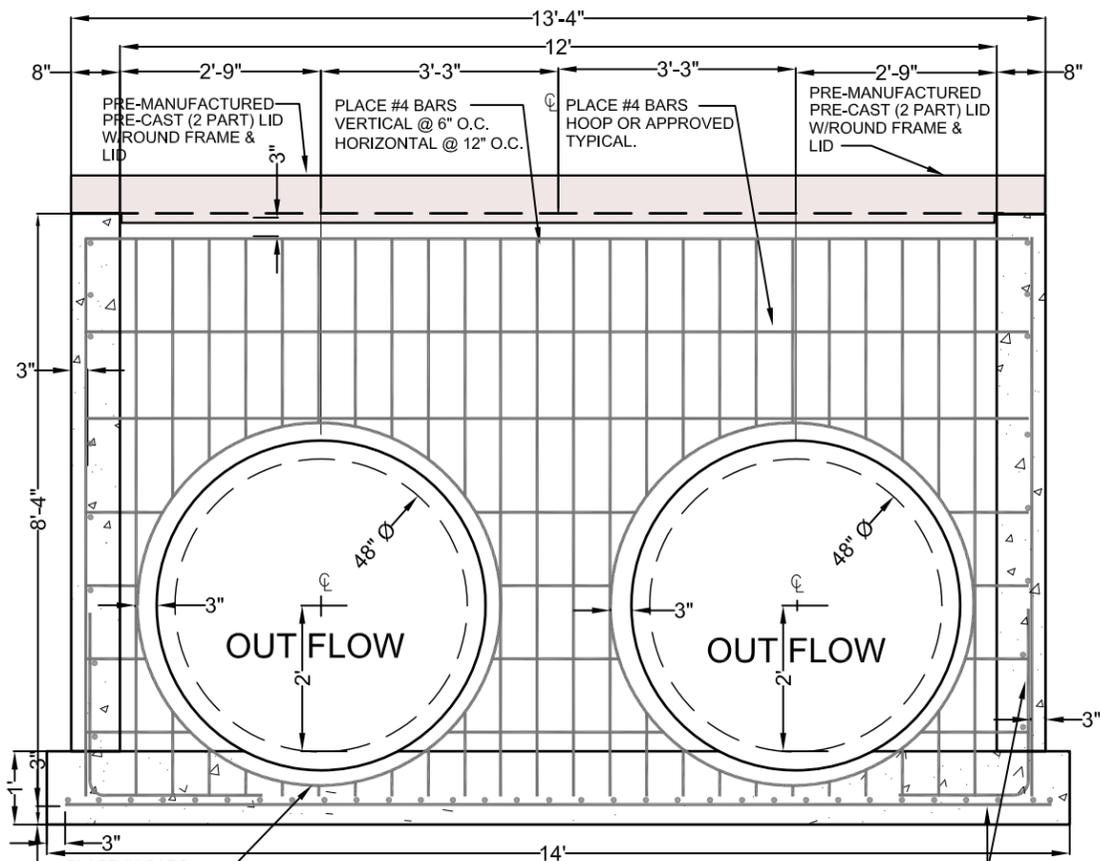
**PLAN**



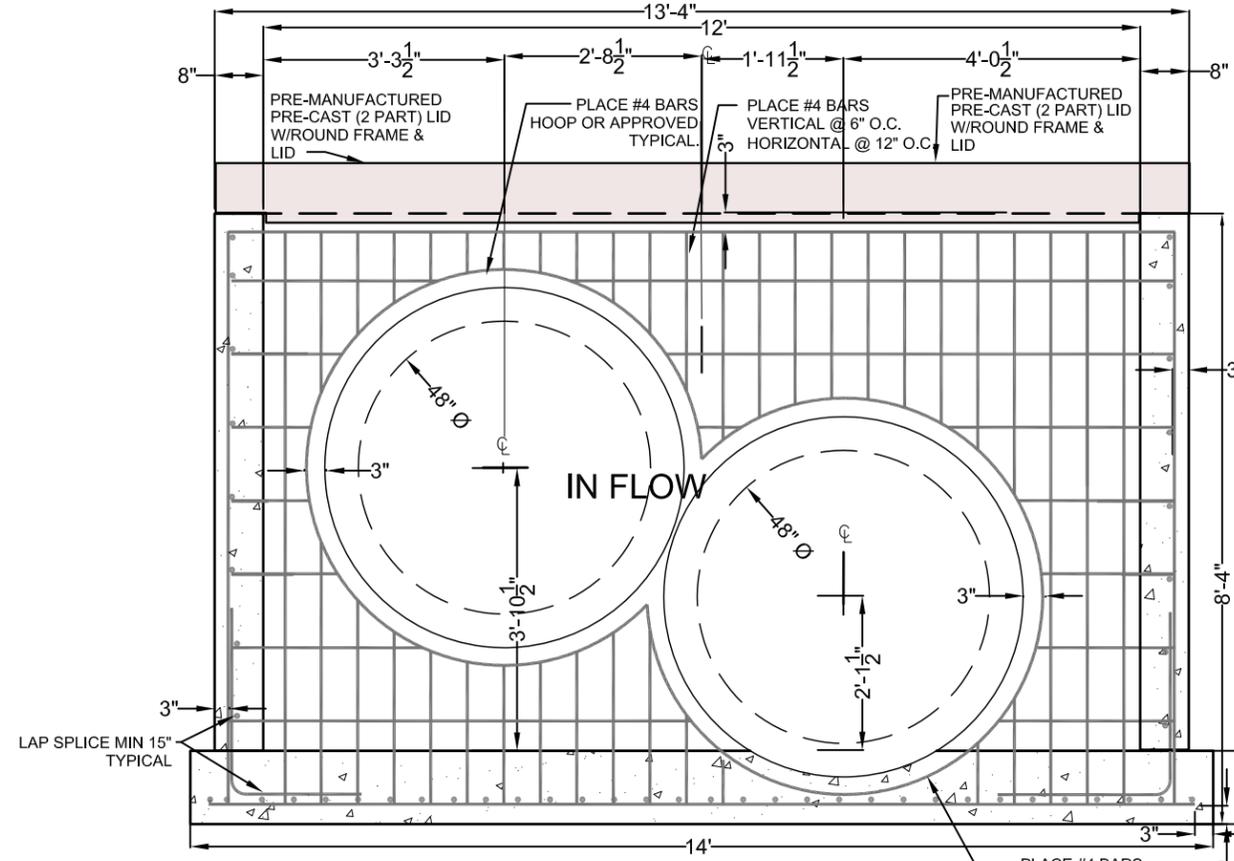
**SECTION C-C**



**SECTION D-D**



**A-A WEST WALL**



**B-B EAST WALL**

No.	Revision/Issue	Date
DRAWN: RBK		

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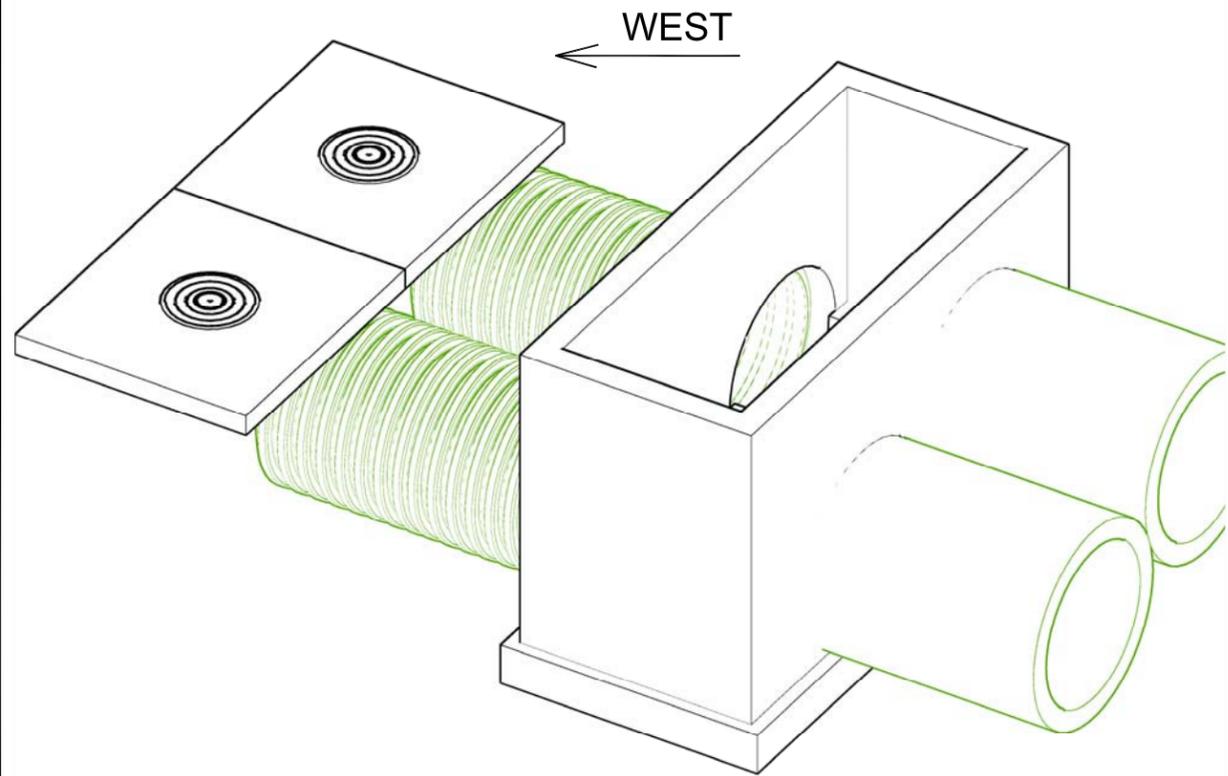
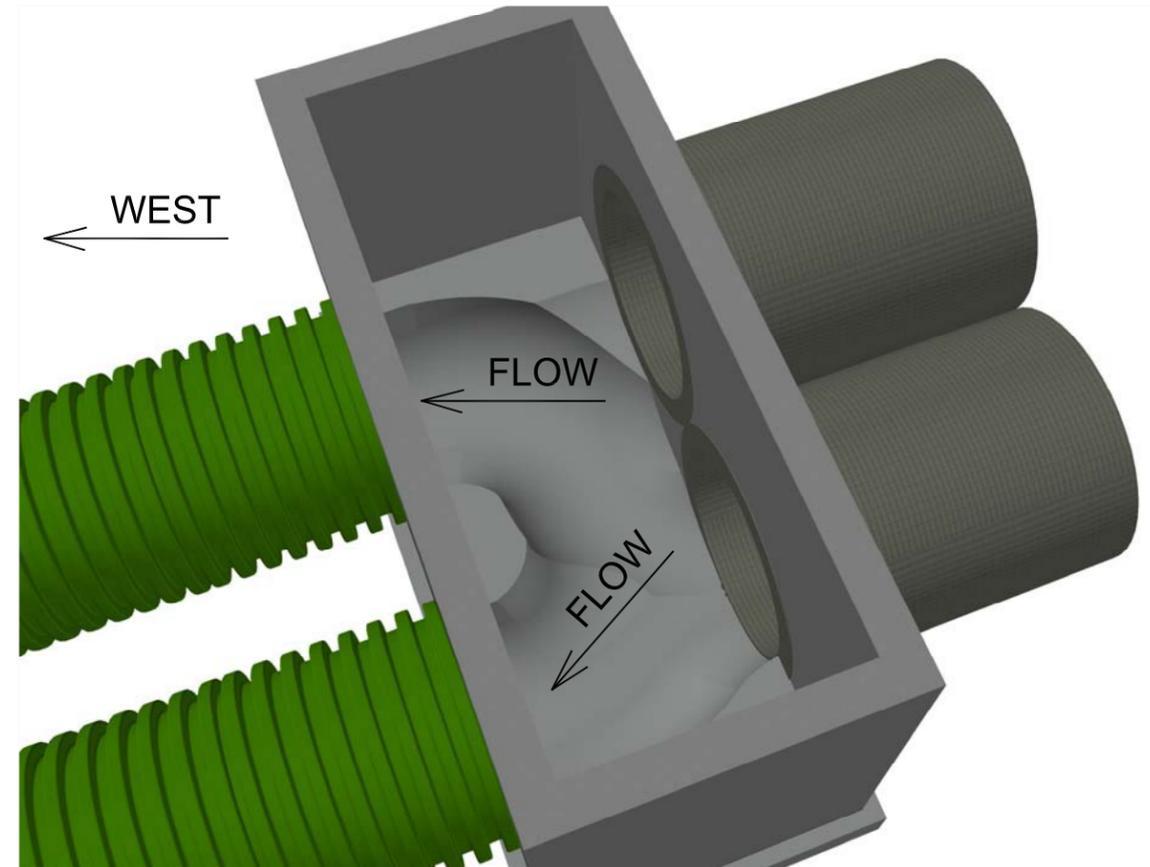
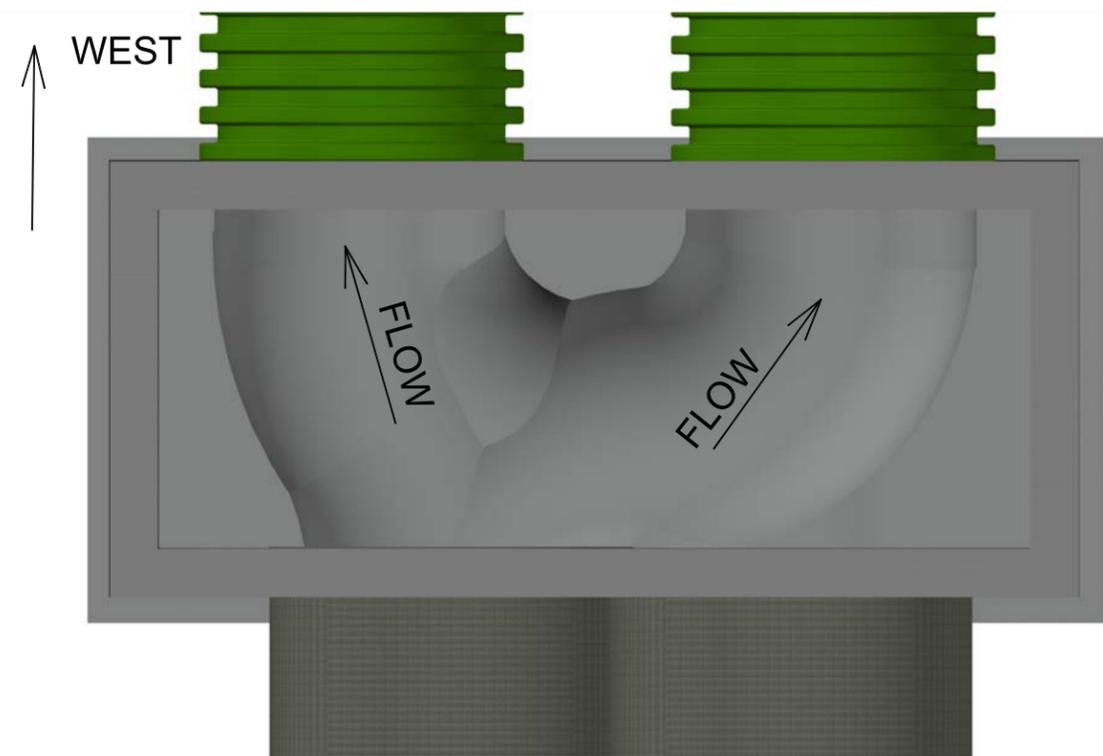
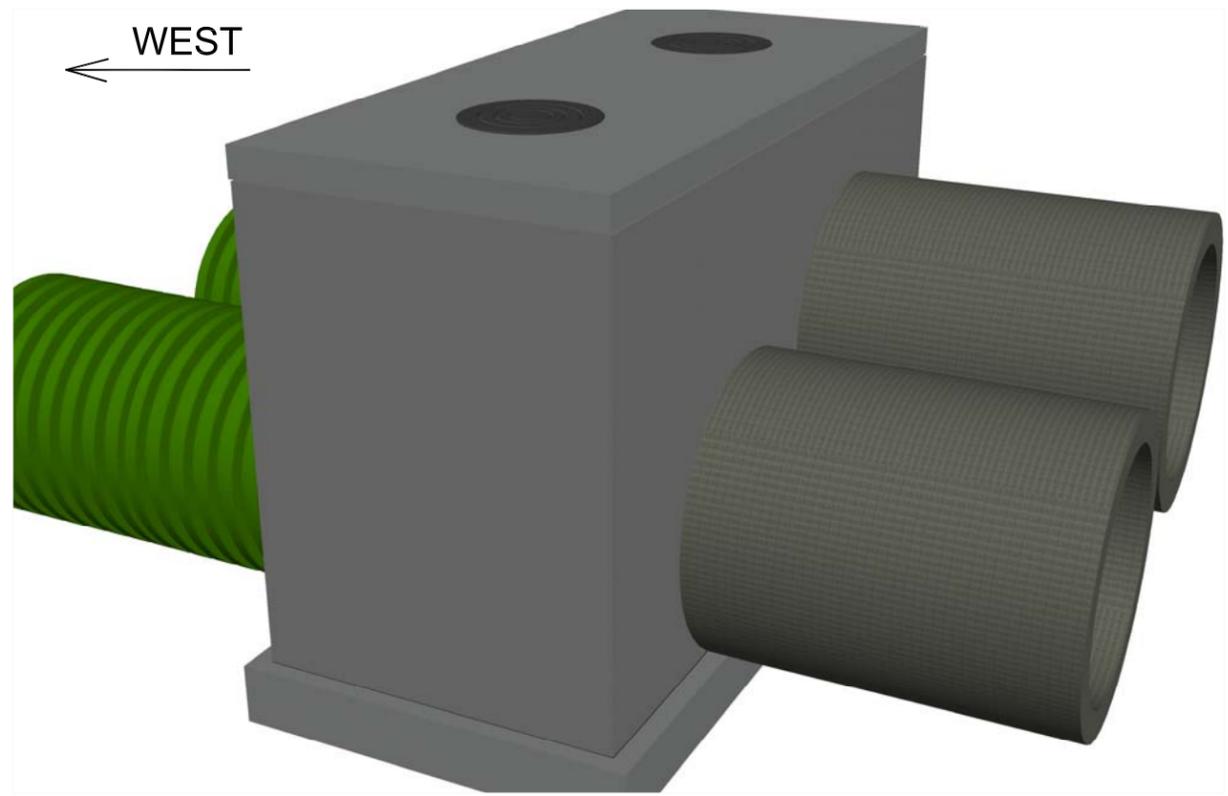


EXPIRATION DATE: 12-31-2016

SHEET

V-8

# VAULT AT 5th STREET WEST STATION 12+40

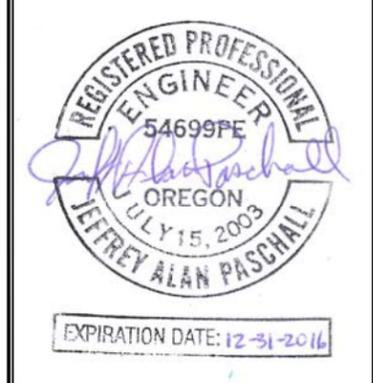


No.	Revision/Issue	Date
DRAWN: RBK		

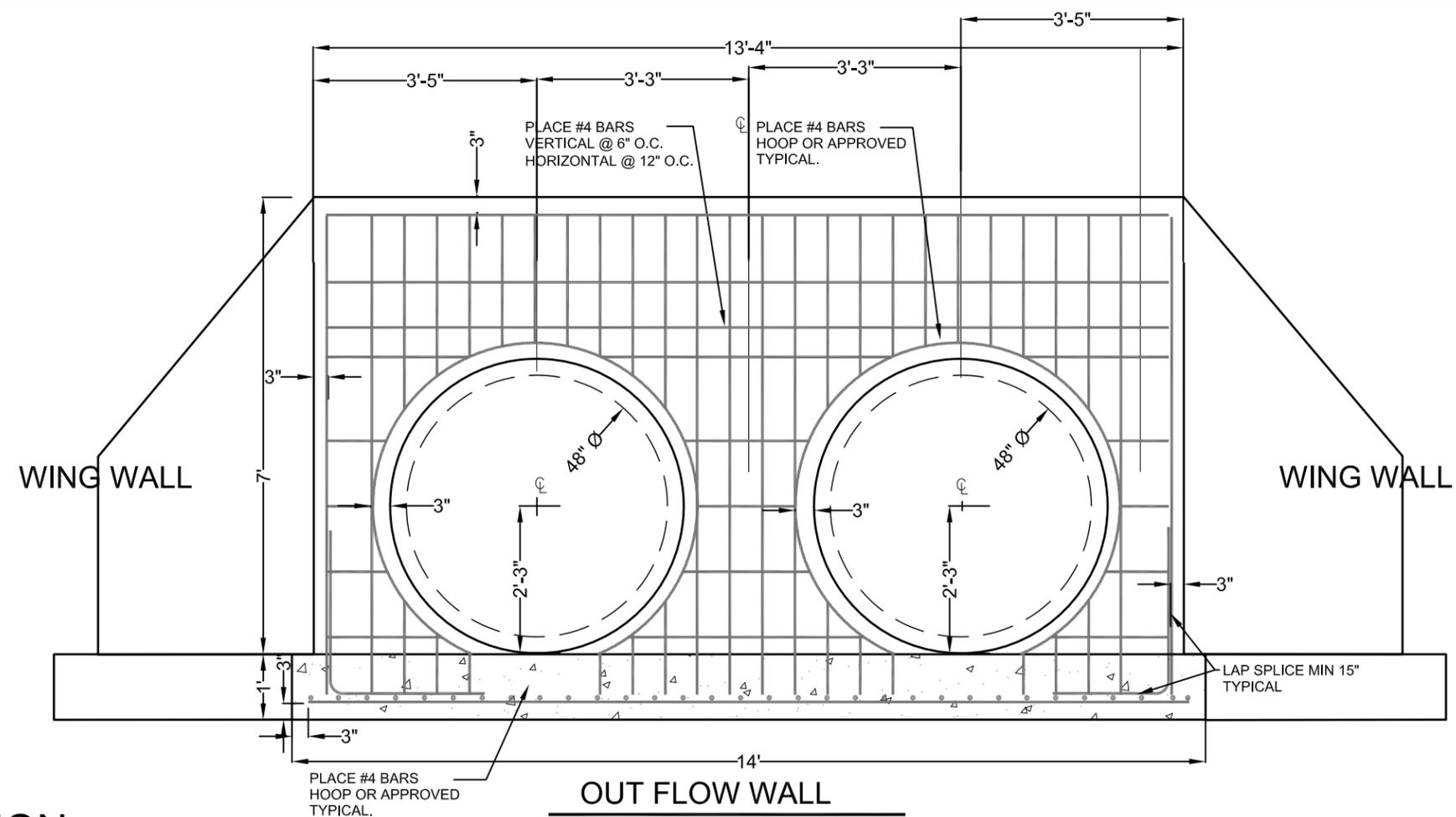
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# VAULT AT OUTFALL STATION 14+46



1 SECTION

No.	Revision/Issue	Date
DRAWN: RBK		

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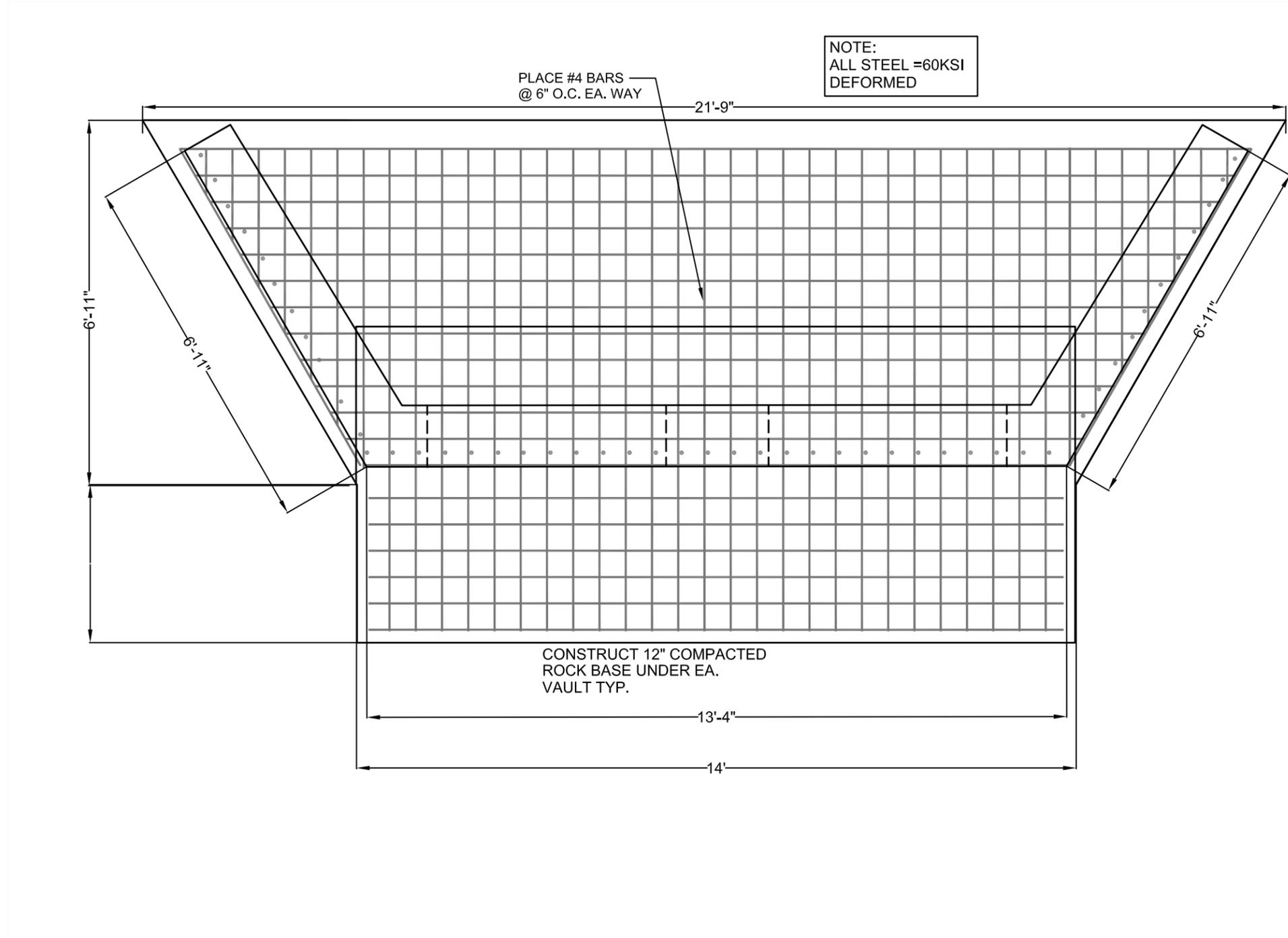
**PROJECT: P21106 OVER/UNDER CMP PIPE REPLACEMENT  
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SHEET  
**V-10**

# Vault at Outfall Station 14+46



**PLAN**

No.	Revision/Issue	Date
DRAWN: RBK		

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 PHASE 1 PIPE CONSTRUCTION**

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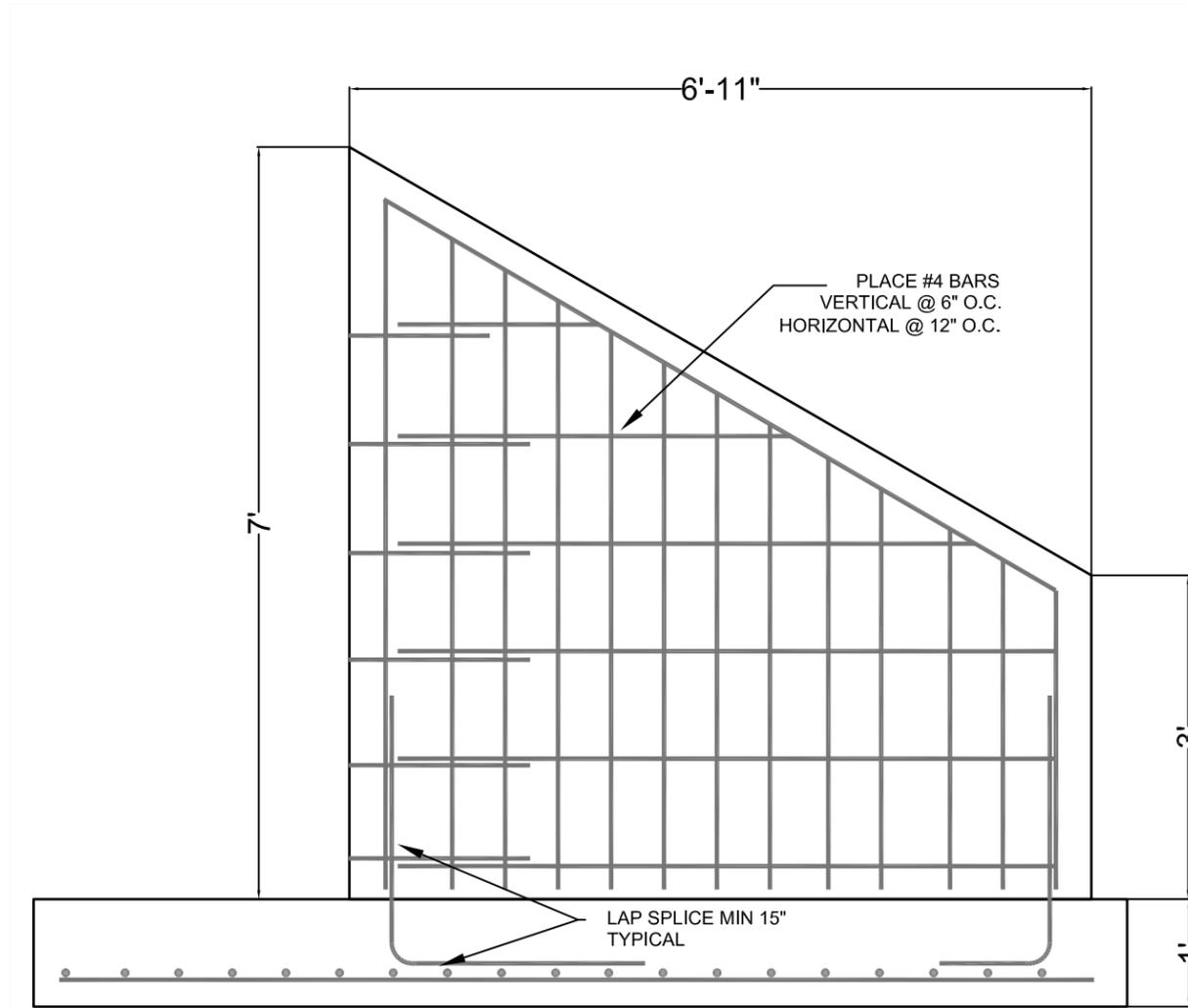
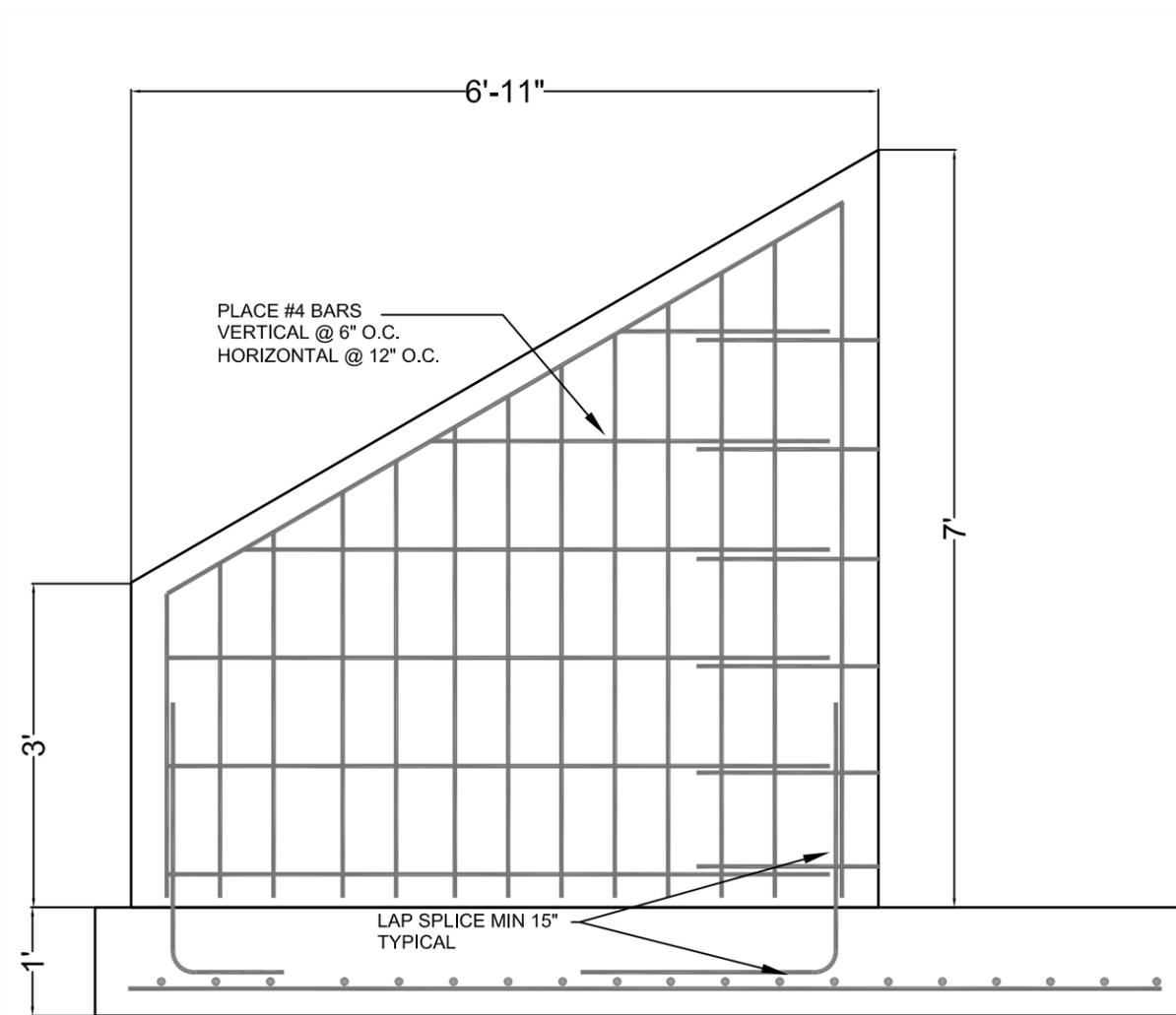


EXPIRATION DATE: 12-31-2016

SHEET

**V-11**

# VAULT AT OUTFALL STATION 14+46



## OUTFALL WING WALLS

No.	Revision/Issue	Date
DRAWN: RBK		

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

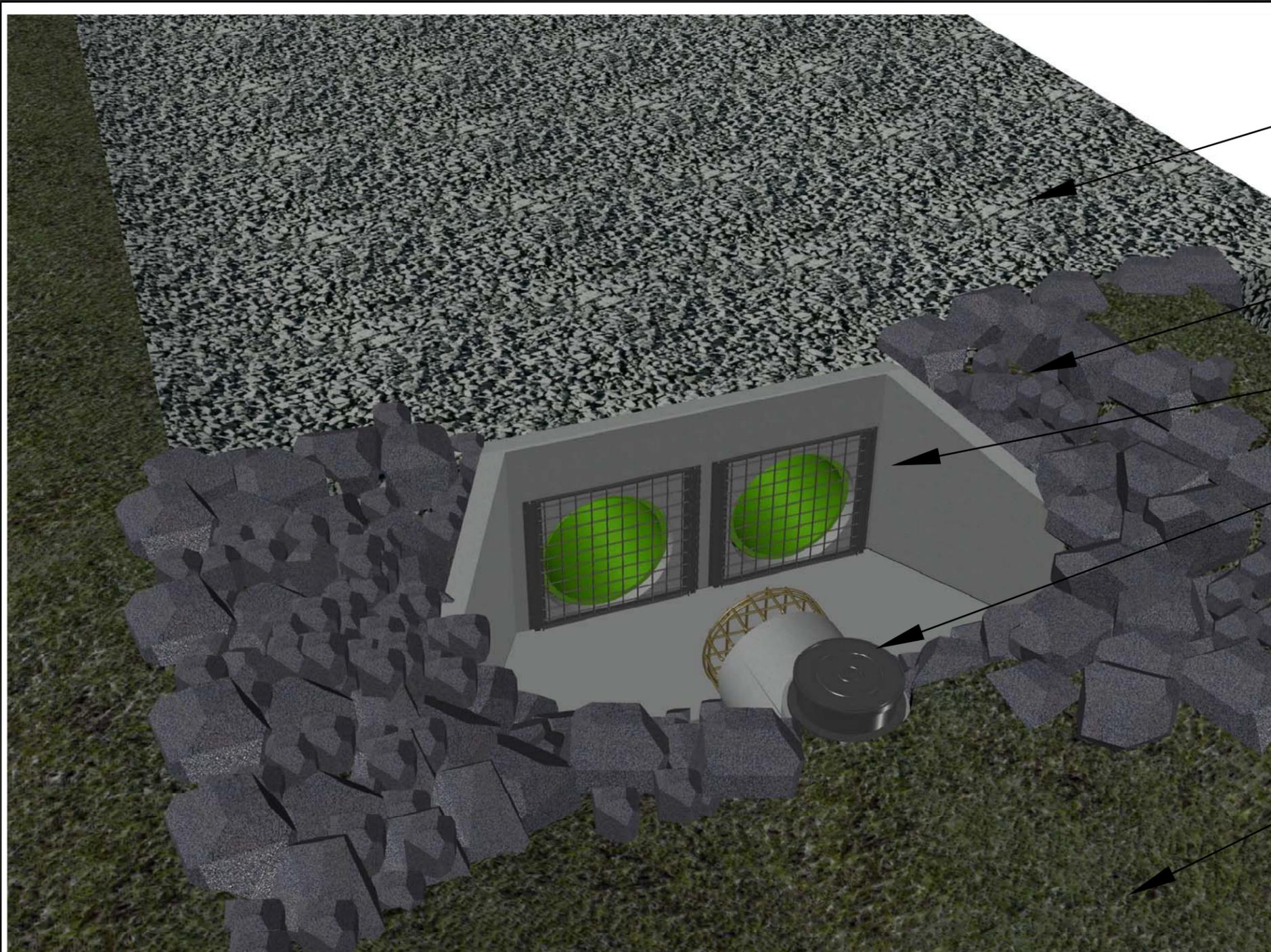
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EXPIRATION DATE: 12-31-2016

SHEET

**V-12**



12" 3/4"-0" CRUSHED ROCK

CLASS 100 RIPRAP  
1:1 SLOPE MAX.

OUTFALL HEADWALL  
W/ REMOVABLE GRATES

EXISTING RISER REMAIN

EXISTING SWALE TO REMAIN

No.	Revision/Issue	Date

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EXPIRATION DATE: 12-31-2016

# OUTFALL STRUCTURE STA: 14+46

NOT TO SCALE

**SHEET**

**V13**



No.	Revision/Issue	Date

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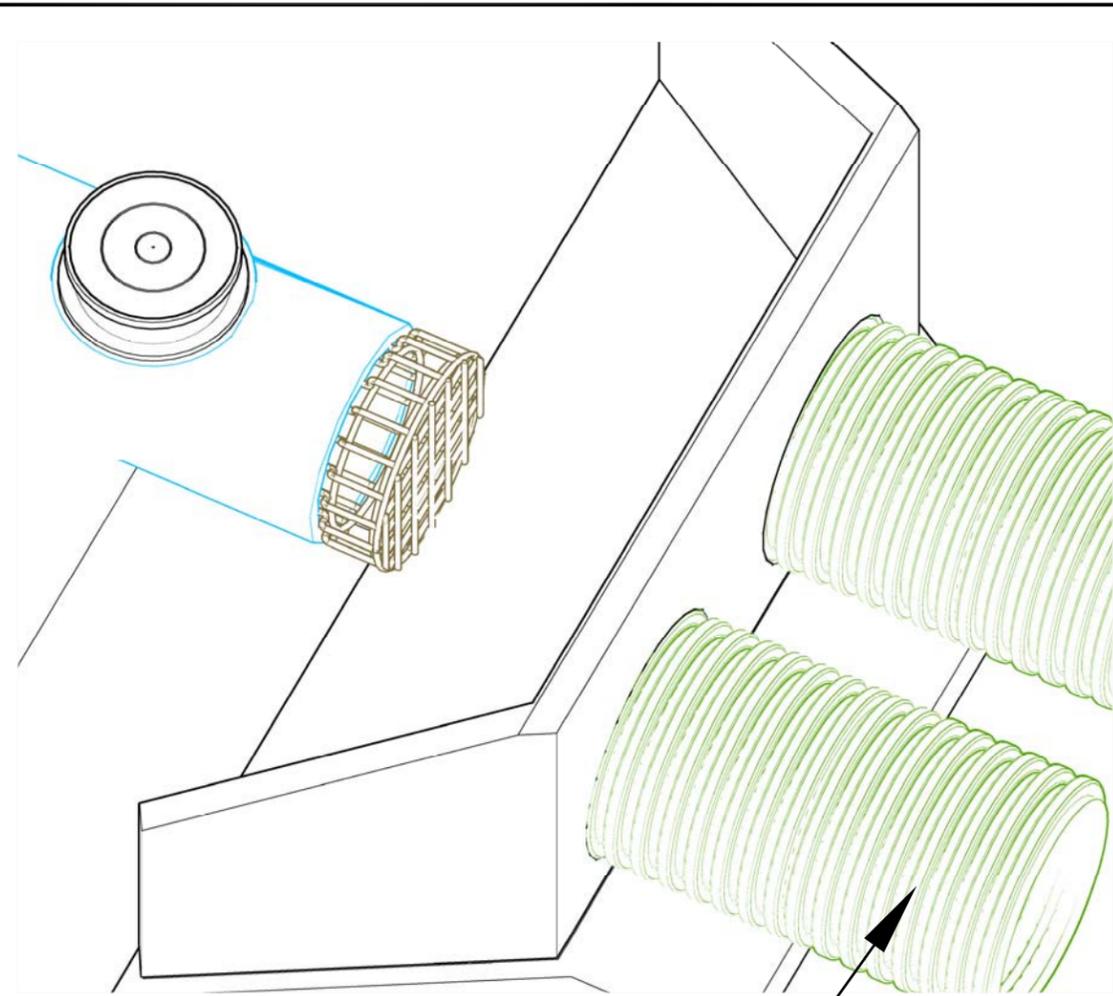
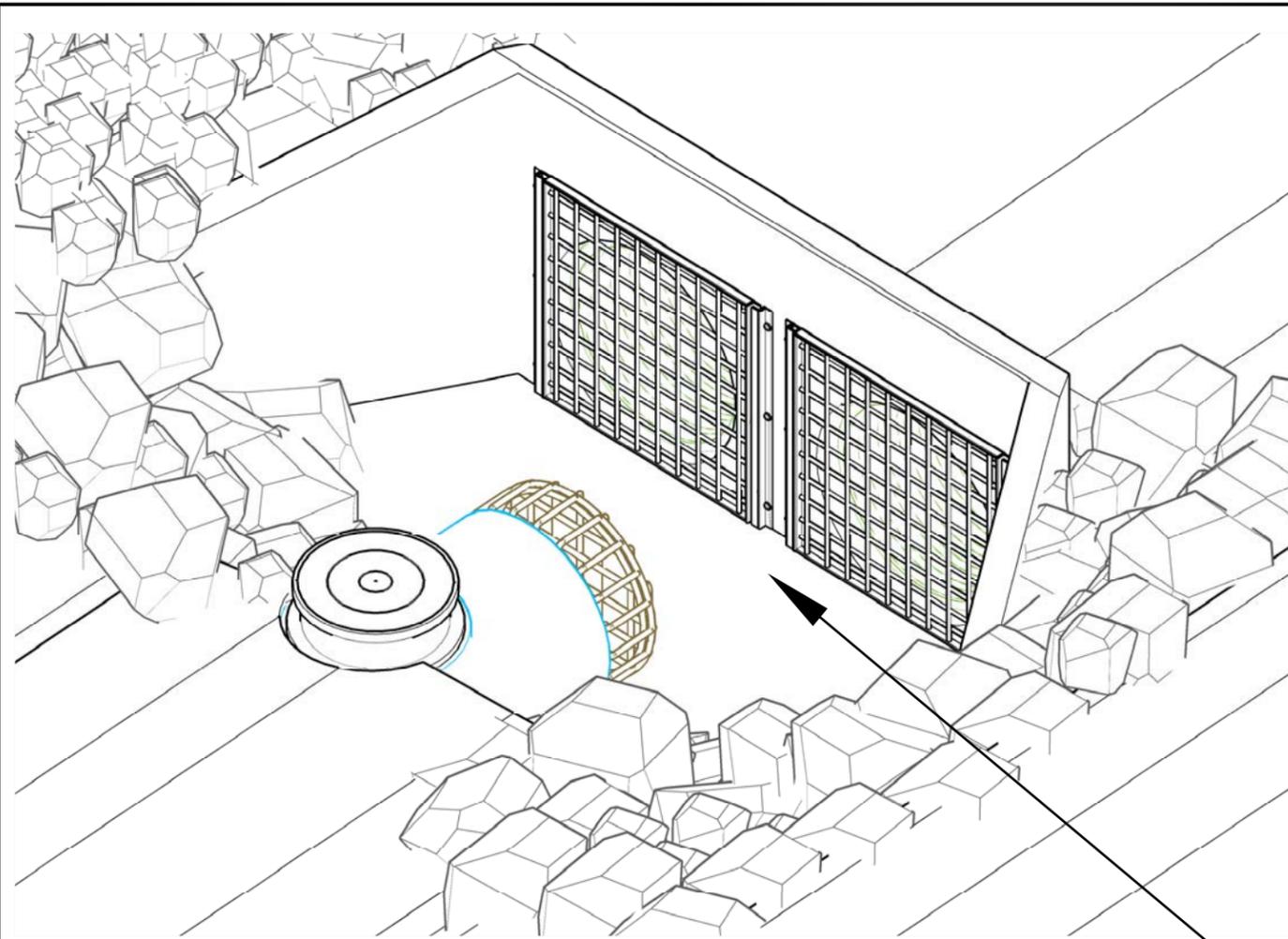
*City of Springfield*  
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EXPIRATION DATE: 12-31-2016

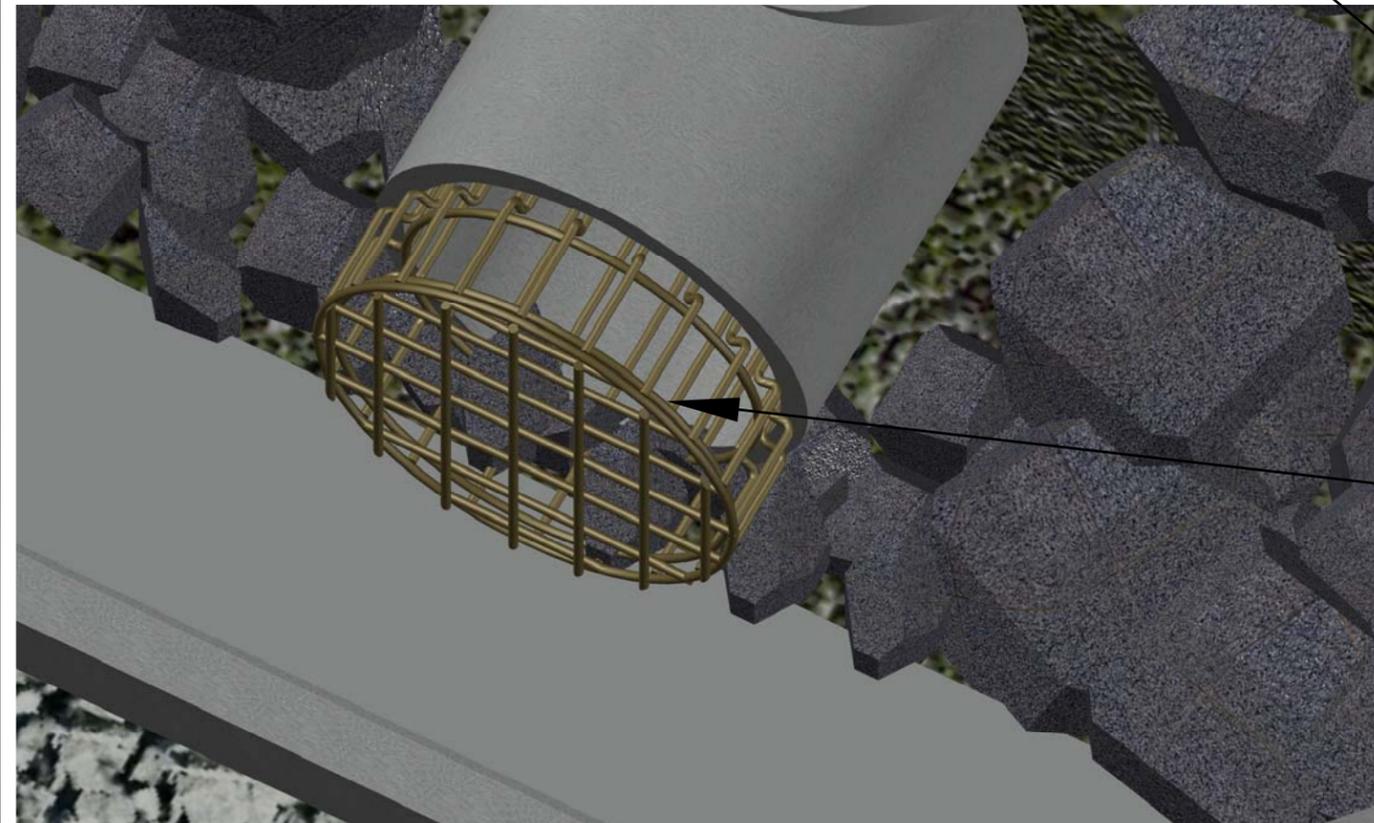
SHEET

V14



EXPOSED HEAD WALL ASSEMBLY

OUTFALL STRUCTURE W/ INLET TO EXISTING 42" STORM PIPE.



INSTALL TRASH RACK IN EXISTING 42"Ø CONC PIPE (VERIFY PRIOR TO CONST)

No.	Revision/Issue	Date

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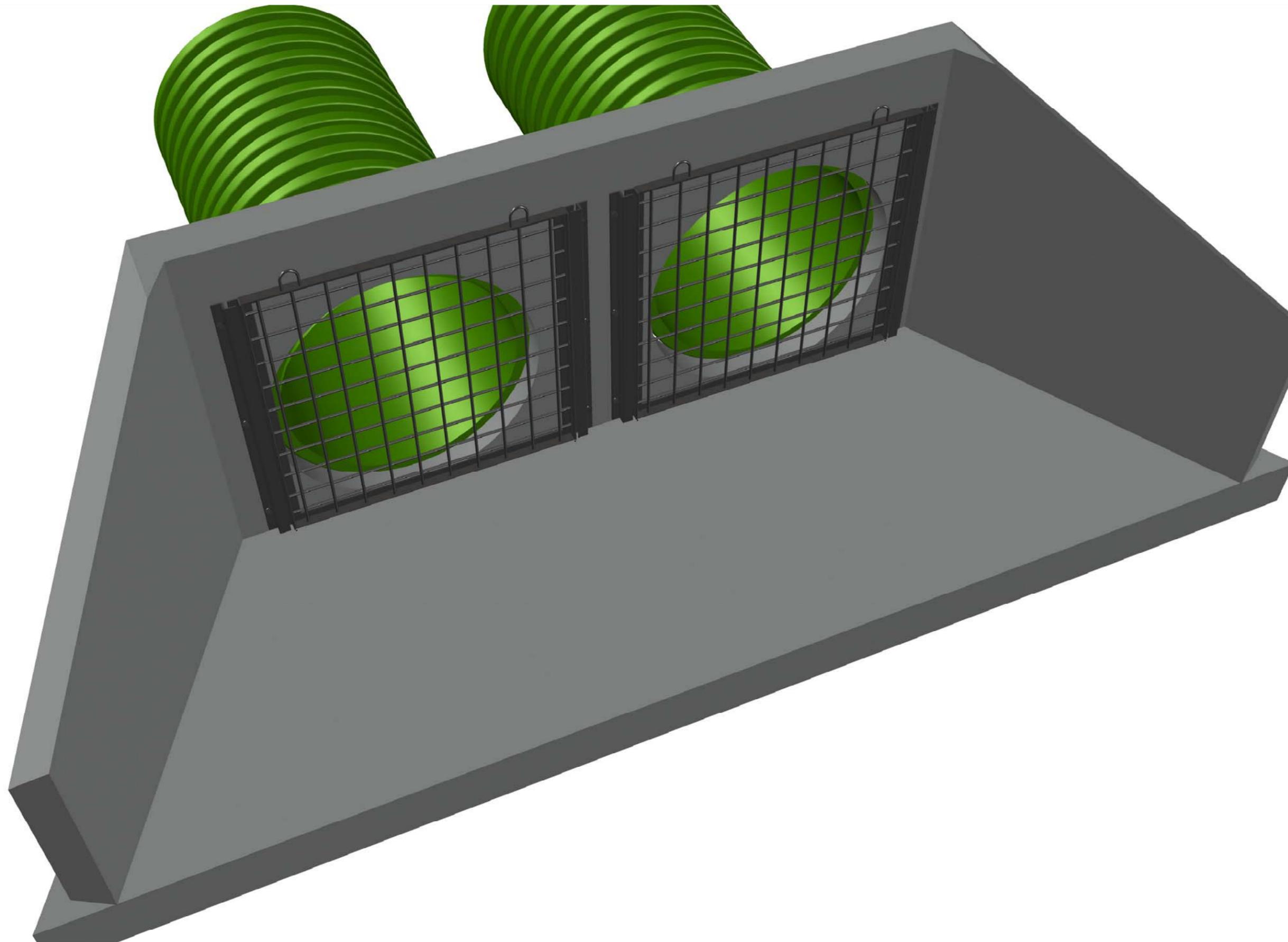
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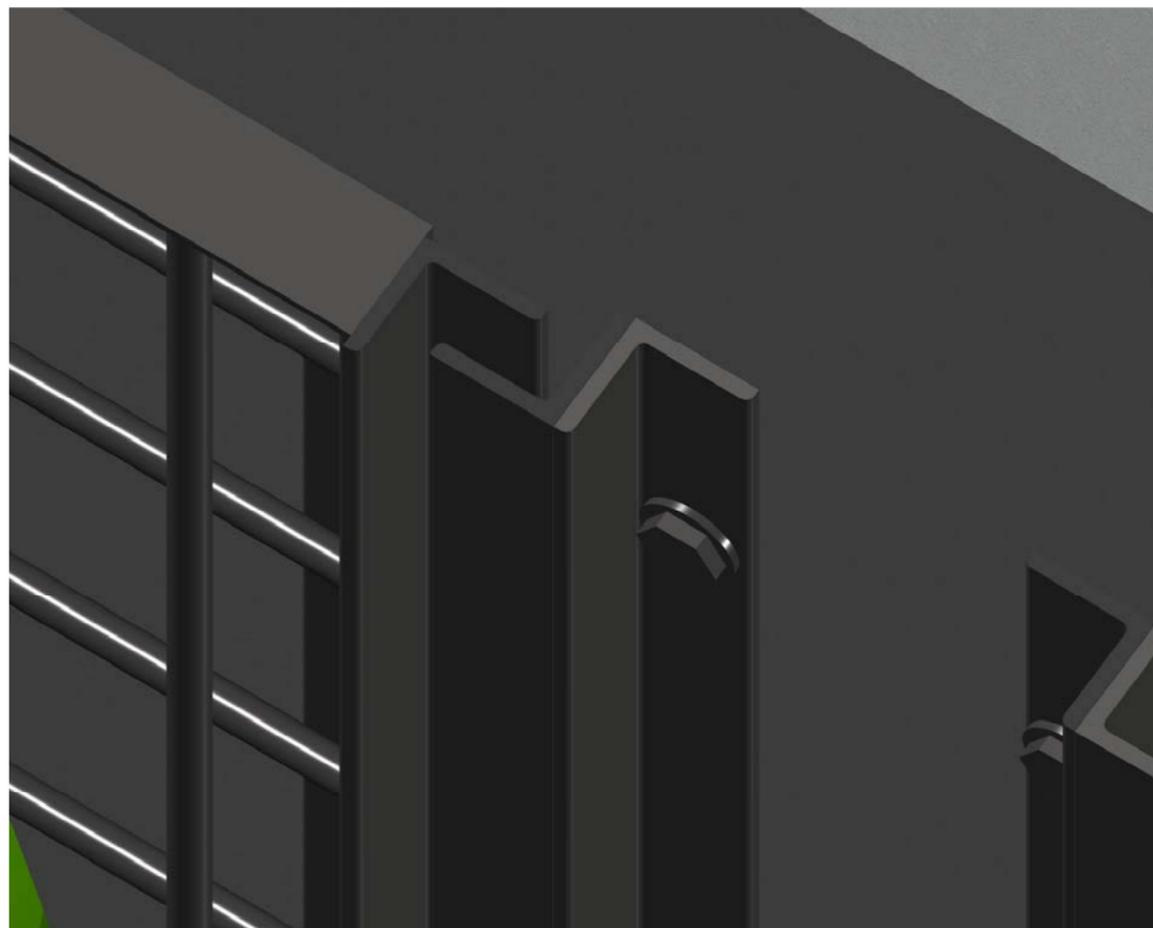
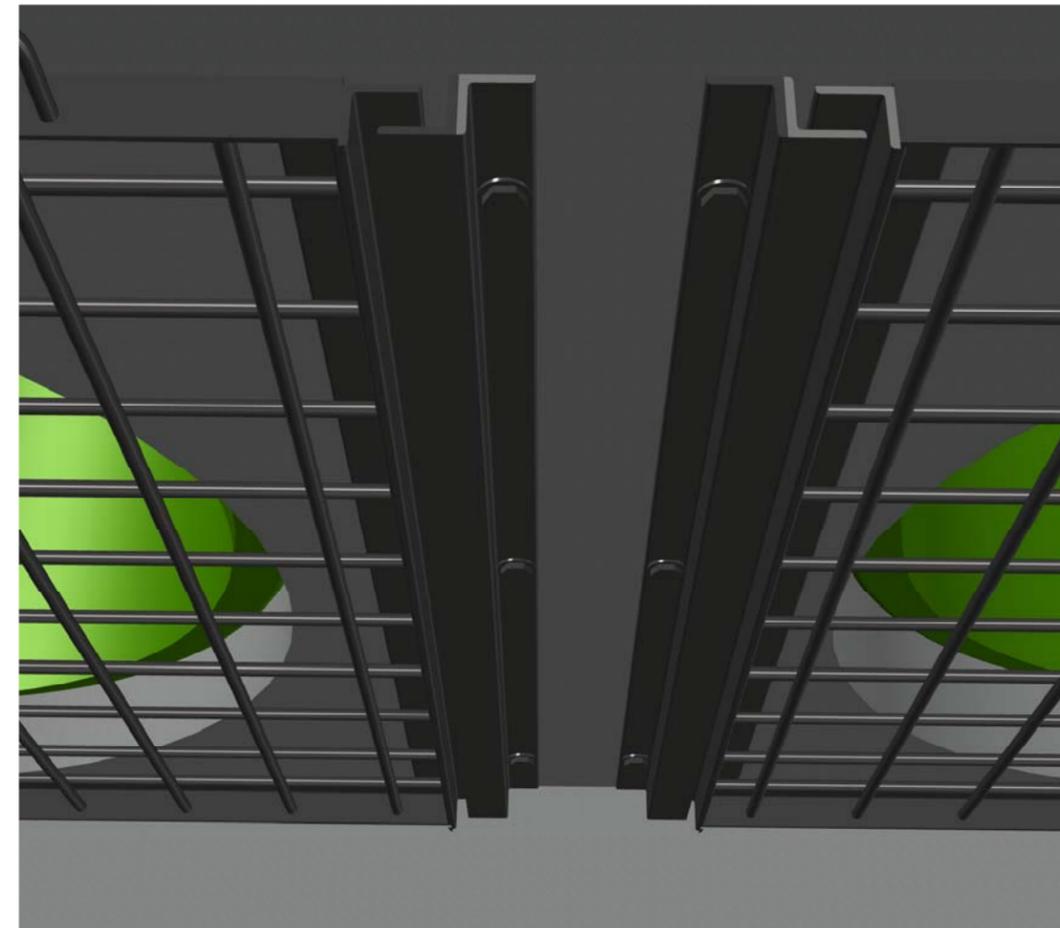
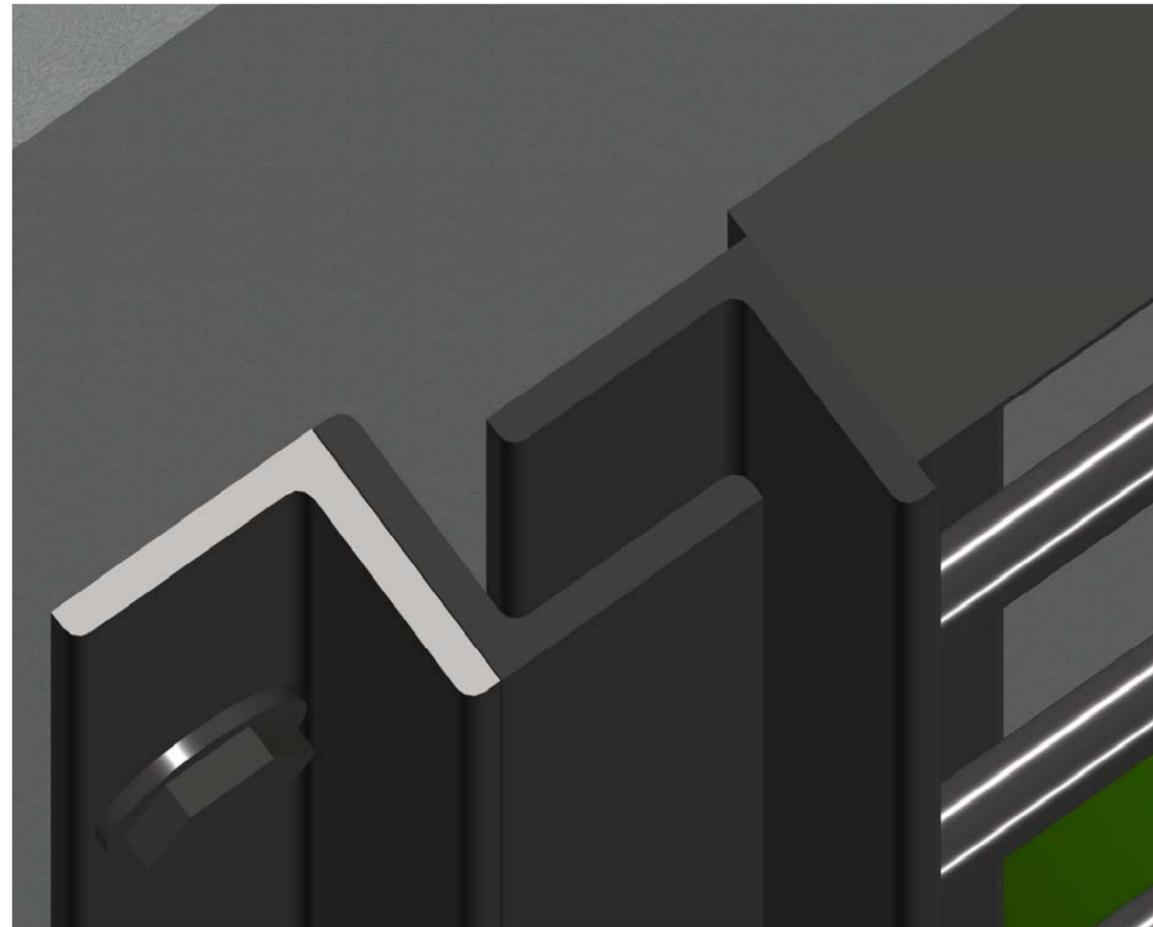
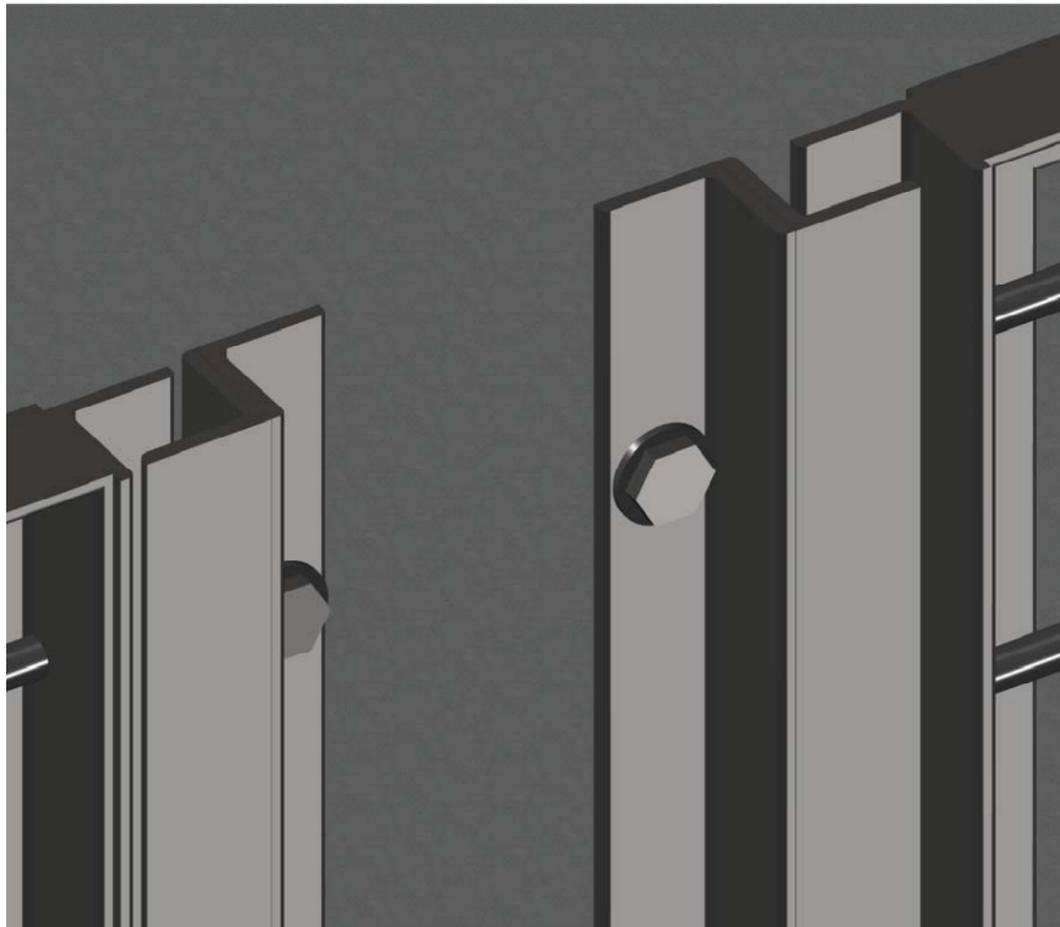
No.	Revision/Issue	Date

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REGISTERED PROFESSIONAL  
 ENGINEER  
 54699PE  
 OREGON  
 JULY 15, 2003  
 JEFFREY ALAN PASCHALL  
 EXPIRATION DATE: 12-31-2016



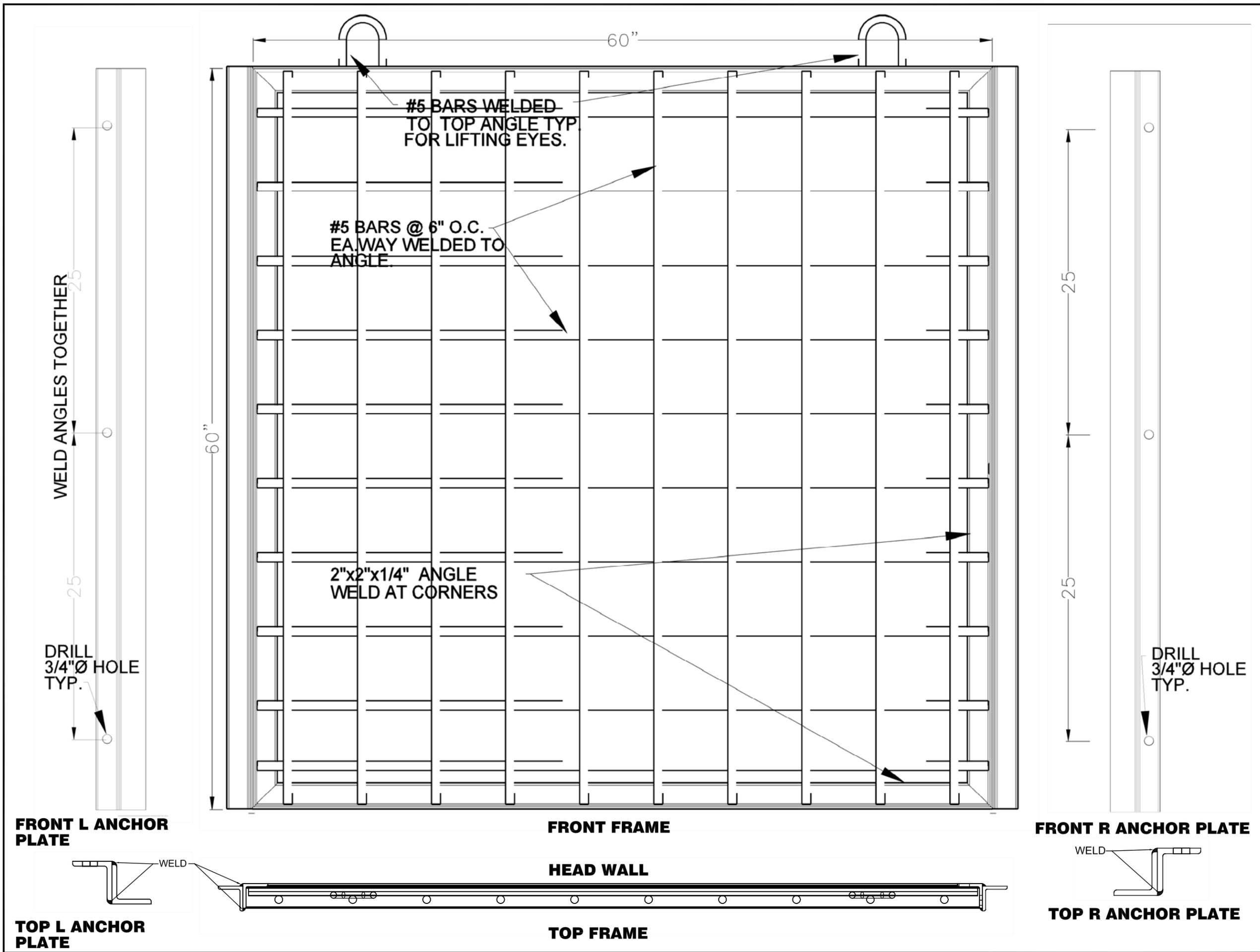
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**PROJECT: P21106 OVER/UNDER CMP PIPE REPLACEMENT  
 PHASE 1 PIPE CONSTRUCTION**

*City of Springfield*  
**PUBLIC WORKS / ENGINEERING**  
 224 FIFTH STREET, SPRINGFIELD, OR 97477  
 PHONE (531) 726-3763 FAX (541) 726-5021  
 INTERNET www.ci.springfield.or.us

REGISTERED PROFESSIONAL  
 ENGINEER  
 54699PE  
 OREGON  
 JULY 15, 2003  
 JEFFREY ALAN PASCHALL  
 EXPIRATION DATE: 12-31-2016



No.	Revision/Issue	Date

NOTE:

UTILITY LOCATIONS ARE APPROXIMATE  
*DO NOT*  
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FROM THESE DRAWINGS  
CALL FOR UTILITY LOCATES  
811 or (1-800-332-2344)

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PROJECT: P21106 OVER/UNDER CMP PIPE REPLACEMENT  
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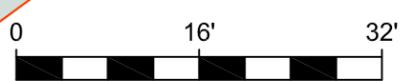
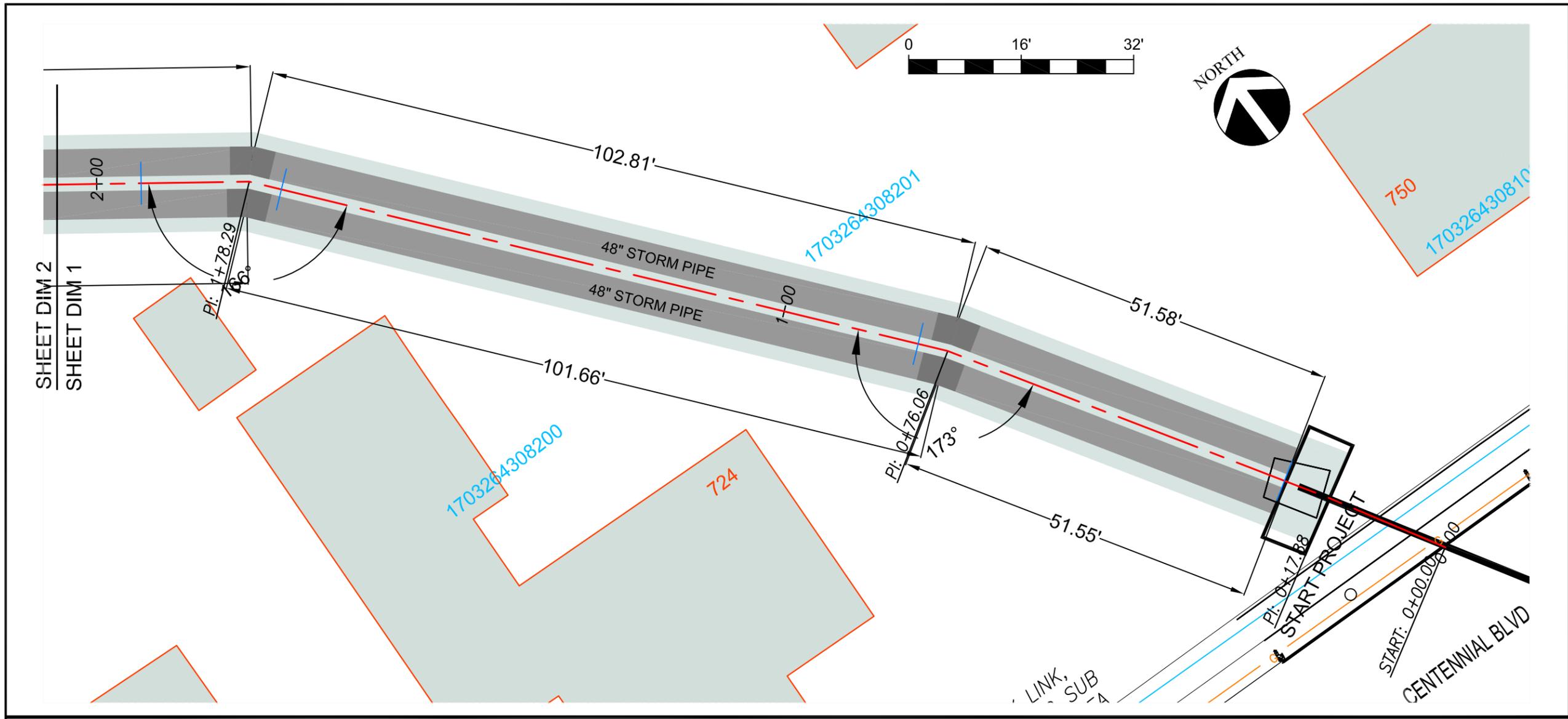
*City of Springfield*

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PHONE (541) 726-3753 FAX (541) 736-1021  
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EXPIRATION DATE: 12-31-2016

SHEET

V18



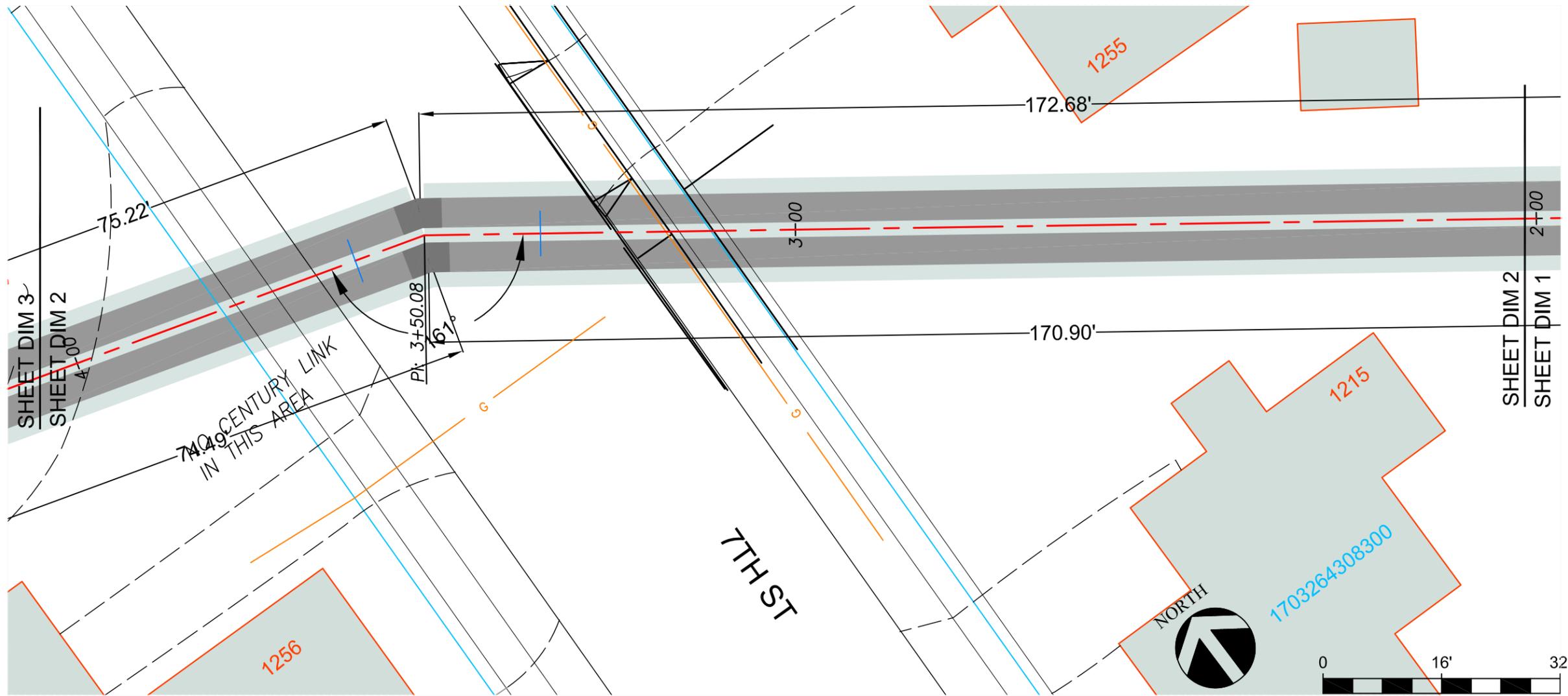
**THE PURPOSE OF THIS SHEET IS TO DETERMINE PIPE LENGTHS AND ANGLES - SEE OTHER SHEETS FOR OTHER PROJECT INFORMATION.**

No.	Revision/Issue	Date
DRAWN: RBK		

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 PHONE: 503-333-3333 FAX: 503-336-1021  
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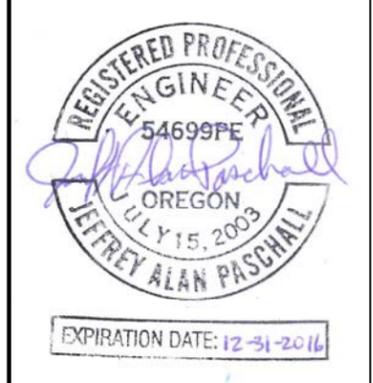
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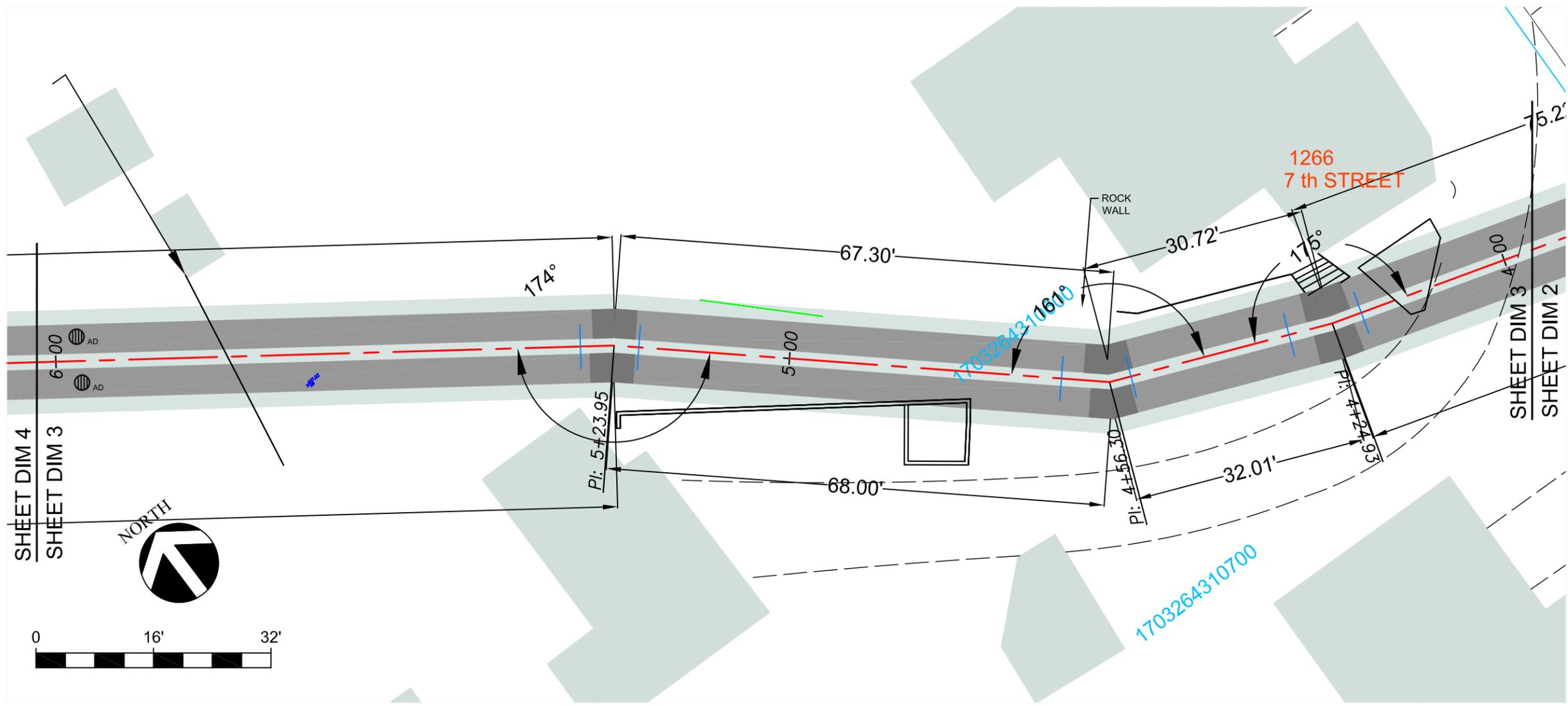
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**SHEET**  
**DIM 2**



**THE PURPOSE OF THIS SHEET IS TO DETERMINE PIPE LENGTHS AND ANGLES - SEE OTHER SHEETS FOR OTHER PROJECT INFORMATION.**

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DRAWN: RBK		

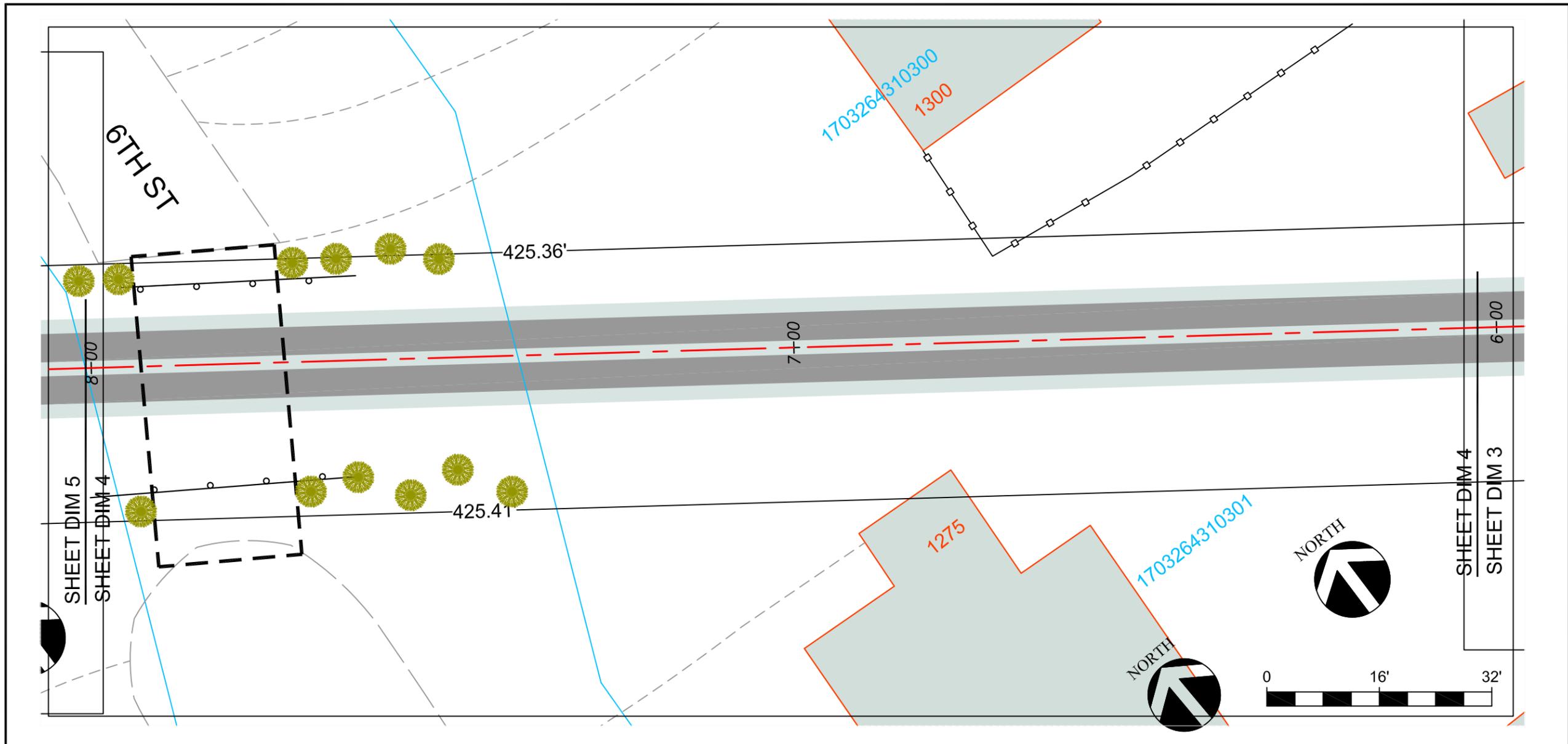
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	<b>SHEET</b>
	<b>DIM 3</b>



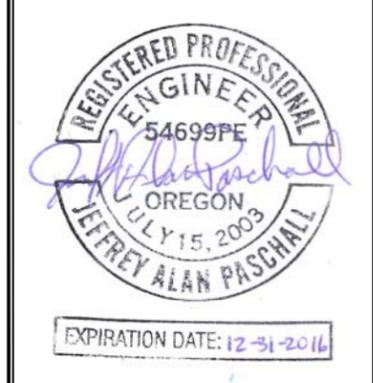
**THE PURPOSE OF THIS SHEET IS TO DETERMINE PIPE LENGTHS AND ANGLES - SEE OTHER SHEETS FOR OTHER PROJECT INFORMATION.**

No.	Revision/Issue	Date
DRAWN: RBK		

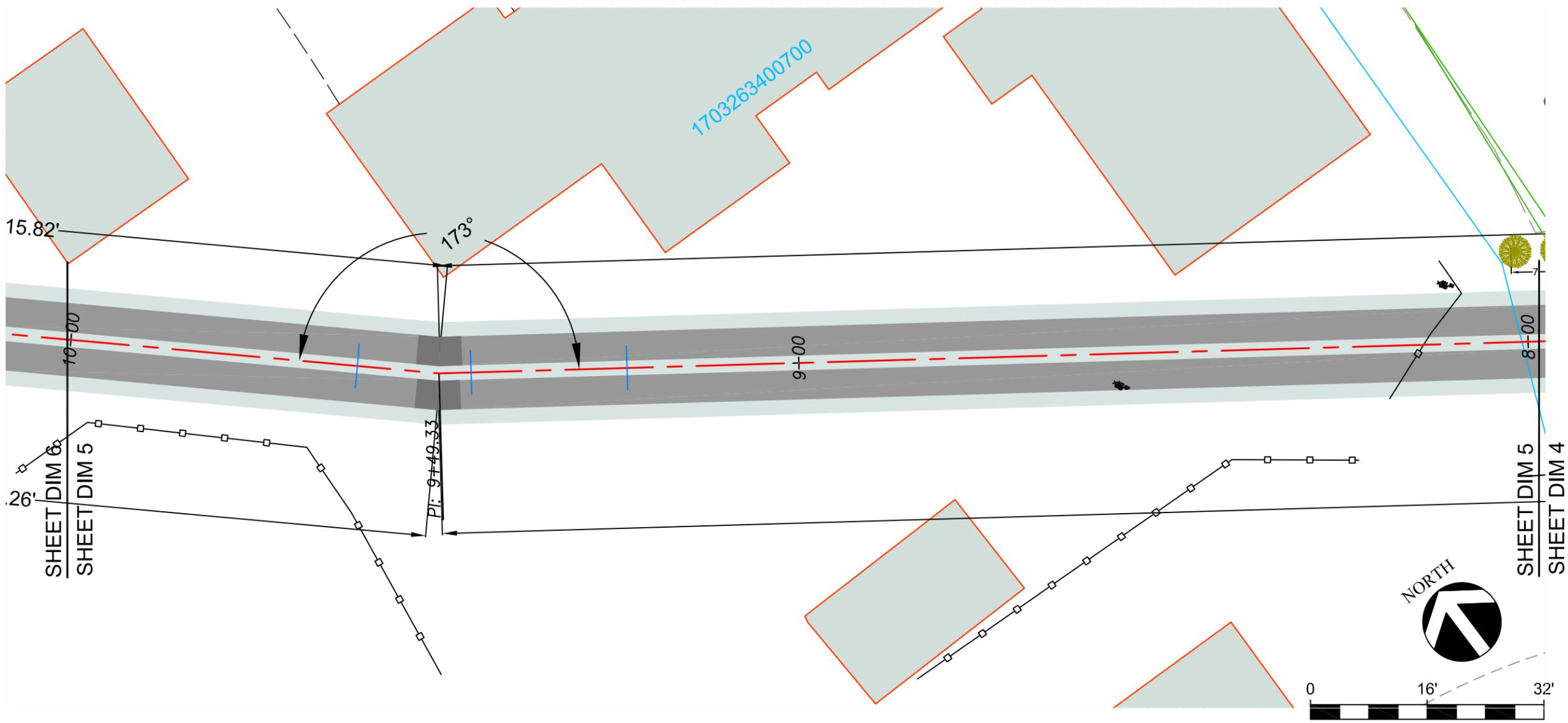
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**SHEET**  
**DIM 4**



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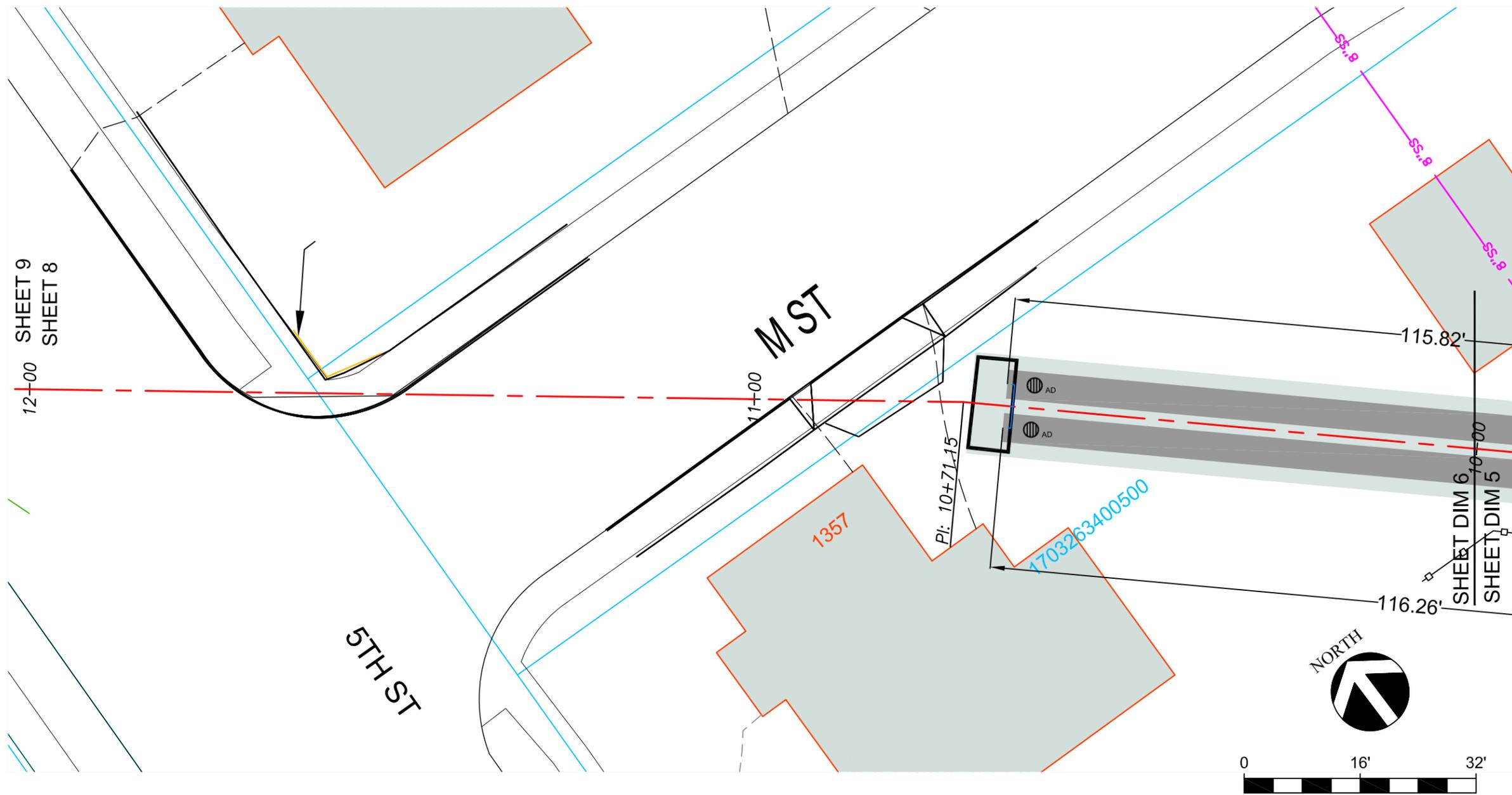
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REGISTERED PROFESSIONAL  
 ENGINEER  
 54699PE  
*Jeffrey Alan Paschall*  
 OREGON  
 JULY 15, 2003  
 JEFFREY ALAN PASCHALL

EXPIRATION DATE: 12-31-2016

	<b>SHEET</b>
	<b>DIM 5</b>



No.	Revision/Issue	Date
DRAWN: RBK		

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REGISTERED PROFESSIONAL  
 ENGINEER  
 54699PE  
*Jeffrey Alan Paschall*  
 OREGON  
 JULY 15, 2003  
 JEFFREY ALAN PASCHALL

EXPIRATION DATE: 12-31-2016

SHEET  
**DIM 6**



# NOTES:

1. PLACE INLET/CATCH BASIN PROTECTION AT EXISTING FIXTURES (SEE DETAIL ON SHEET E2.)

# GENERAL NOTES:

1. CONCRETE WASHOUTS ARE NOT PROVIDED ON THIS PROJECT
2. SAW CUTTING SLURRY IS TO BE VACUMED
3. ANY AREAS OF EXPOSED SOILS, INCLUDING ROADWAY EMBANKMENTS, THAT WILL NOT BE DISTURBED FOR TWO DAYS DURING THE WET SEASON (OCTOBER 1 TO APRIL 30) OR SEVEN DAYS DURING THE DRY SEASON (MAY 1 TO SEPTEMBER 30) SHALL BE IMMEDIATELY STABILIZED WITH AN APPROVED ESC METHOD (SEEDING & MULCHING WITH STRAW, BARK, COMPOST, OR PLASTIC COVERING, ETC.).

# EROSION CONTROL STANDARD NOTES:

- |  |   |
|--|---|
| <p>A. Approval of this Erosion and Sedimentation Control Plan (ESCP) does not constitute an approval of permanent road or drainage design (e.g., size and location of roads, pipes, restrictors, channels, retention facilities, utilities, etc.).</p> <p>B. Approval of this ESCP does not relieve the permit holder and or the contractor from all other permitting requirements. Prior to beginning construction activities, all other necessary approvals shall be obtained.</p> <p>C. An inspection of the erosion control measures by City LDAP staff is required prior to any ground disturbance on the site.</p> <p>D. The erosion and sediment control measures shown on the plan are the minimum requirements for anticipated site conditions. During the construction period, these measures shall be upgraded as needed for unexpected storm events and to ensure that sediment and sediment-laden water does not leave the site.</p> <p>E. The implementation of the ESCP and the construction, maintenance, replacement, and upgrading of the erosion and sediment control measures is the responsibility of the permit holder and or the contractor until all construction is completed and accepted by the City and vegetation/landscaping is established per the required warranty period.</p> <p>F. In the event the ESC facilities identified on the ESCP are not functioning properly, the contractor is responsible for immediately implementing changes to the ESCP as directed by the ESCP engineer or his inspector. The engineer, his inspector or the City may stop all construction activity on site until the erosion problem is corrected and all ESC facilities are functioning properly. If the contractor does not immediately implement changes to the ESCP identified by the ESCP engineer or his inspector, the City may implement the necessary changes and require payment from the contractor prior to project acceptance by the City.</p> <p>G. The boundaries of the clearing limits shown on this plan shall be clearly flagged in the field by the engineer prior to construction. During the construction period, no disturbance beyond the flagged clearing limits shall be permitted. The flagging shall be maintained by the permit holder and or the contractor for the duration of construction.</p> <p>H. The erosion and sediment control measures on active sites shall be inspected and maintained daily and within the 24 hours after any storm event of greater than 0.5 inches of rain per 24 hour period. Measures shall be inspected by the permit holder and or the contractor after each rainfall and at least daily during prolonged rainfall. Any required repairs or adjustments shall be made immediately. The erosion and sediment control measures on inactive sites shall be inspected a minimum of once every two (2) weeks or within 48 hours following a storm event. Written records shall be kept of weekly reviews of the ESC facilities during the wet season (October 1 to April 30) and of monthly reviews during the dry season (May 1 to September 30).</p> <p>I. All erosion and sediment control measures shall be protected from damage at all times. Control measures shall remain in place until permanent or temporary re-vegetation has been stabilized. Any measure that is damaged or destroyed shall be repaired or replaced immediately.</p> | <p>J. Any areas of exposed soils, including roadway embankments, that will not be disturbed for two days during the wet season (October 1 to April 30) or seven days during the dry season (May 1 to September 30) shall be immediately stabilized with an approved ESC method (seeding &amp; mulching with straw, bark, compost, or plastic covering, etc.).</p> <p>K. A supply of materials necessary to meet compliance and implement the LDAP or other best management erosion practices under all weather conditions shall be maintained at all times on the construction site.</p> <p>L. No hazardous substances, such as paints, thinners, fuels and other chemicals shall be released onto the site, adjacent properties, or into water features, the City's storm water system, or related natural resources.</p> <p>M. Street sweeping shall be performed as needed or when directed by the City inspector to ensure public right-of-ways are kept clean and free of debris. Street flushing is prohibited.</p> <p>N. When trucking saturated soils from the site, either water-tight trucks shall be used or loads shall be drained on site until dripping has been reduced to no more than one gallon per hour. Sediment laden water will not be allowed to enter the storm water system</p> <p>O. Extracted ground water from excavated trenches shall be disposed of in a suitable manner without damage to adjacent property, public storm water system, water features, and related natural resources. Approval of a dewatering system does not guarantee that it will meet compliance or be acceptable for use in all situations. Modifications to the dewatering system will be required if compliance can not be met. At no time will sediment laden water be allowed to leave the construction site.</p> <p>P. At no time shall more than one foot of sediment be allowed to accumulate within a catch basin. All catch basins and conveyance lines shall be cleaned prior to paving. The cleaning operation shall not flush sediment laden water into the downstream system.</p> <p>Q. Any required stabilized construction entrances and roads shall be installed at the beginning of construction and maintained for the duration of the project. Additional measures, such as wash pads, may be required to ensure that all paved areas are kept clean for the duration of the project.</p> <p>R. Any permanent flow control facility used as a temporary settling basin shall be modified with the necessary erosion control measures and shall provide adequate storage capacity.</p> <p>S. Where straw mulch for temporary erosion control is required, it shall be applied at a minimum thickness of two to three inches.</p> <p>T. In preparation of the wet season, all disturbed areas shall be reviewed to identify which ones can be seeded in preparation for the winter rains. A sketch map of those areas to be seeded and those areas to remain uncovered shall be submitted to the City by September 15. The City can require seeding of additional areas in order to protect surface waters, adjacent properties, or drainage facilities. Disturbed areas identified for seeding shall be seeded prior to the beginning of the wet season (October 1).</p> |
|--|---|

No.	Revision/Issue	Date

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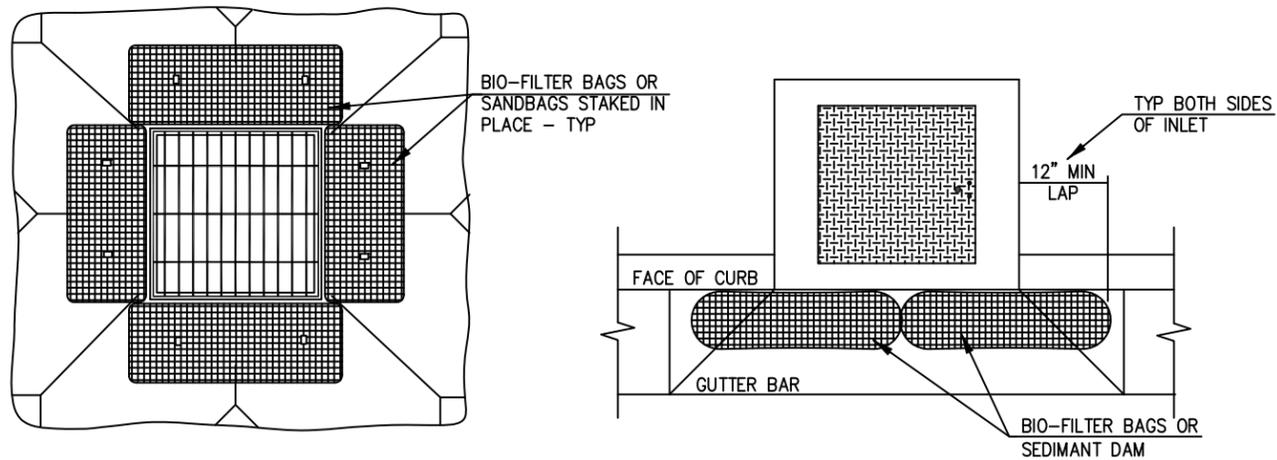
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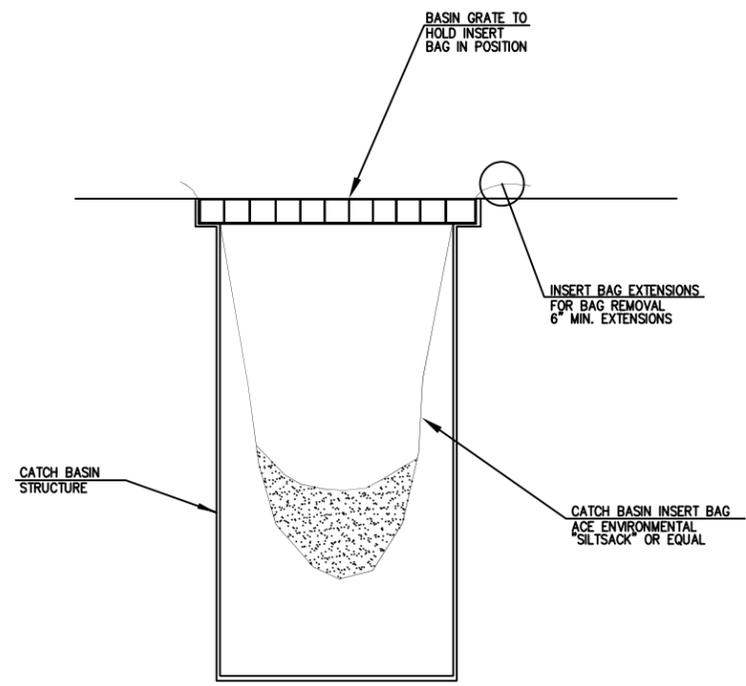


EXPIRATION DATE: 12-31-2016



**NOTES**  
 1. PRIOR TO 1st PAVEMENT LIFT, REMOVE BIO-BAG/SANDBAG BARRIERS AND INSTALL BASIN INSERT BAG OR CURB INLET SEDIMENT DAM AT ALL INLET STRUCTURES.

**1 DRAINAGE INLET STRUCTURE PROTECTION**  
 NO SCALE



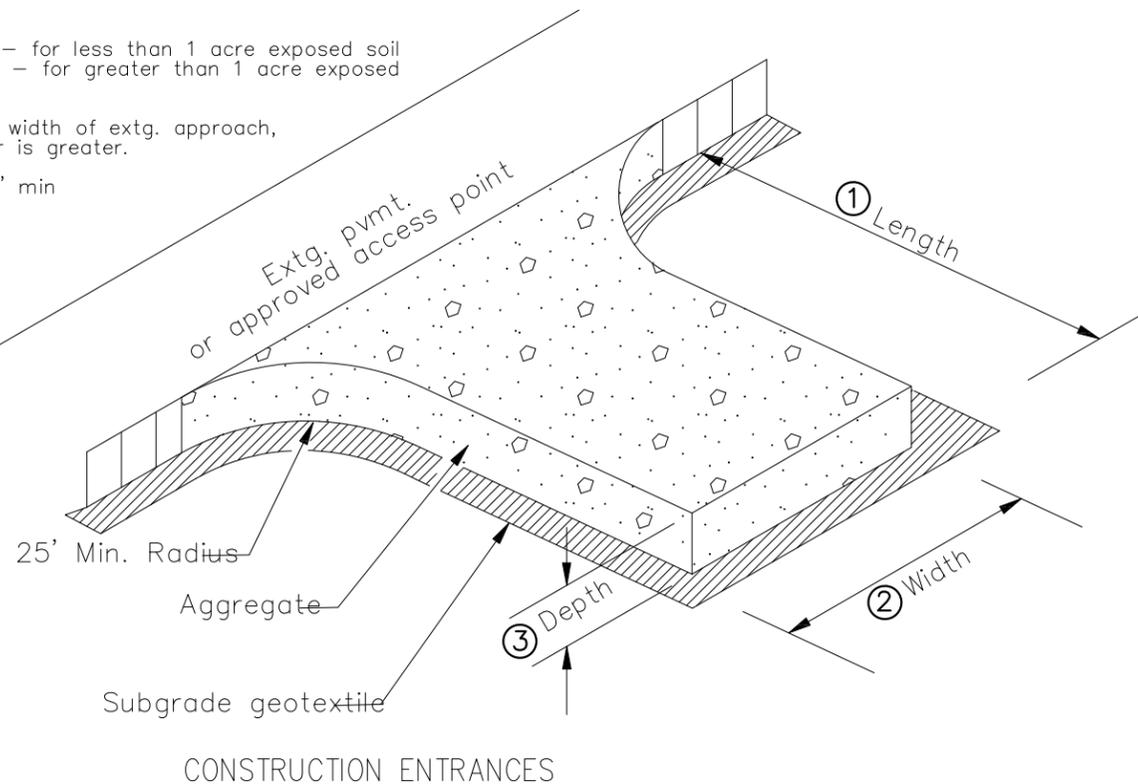
**1 CATCH BASIN INSERT BAG**  
 NO SCALE



**INLET PROTECTION**

Notes:

- ① Length: 50' min. - for less than 1 acre exposed soil  
100' min. - for greater than 1 acre exposed soil
- ② Width: 20' - or width of extg. approach, whichever is greater.
- ③ Depth: 8" min



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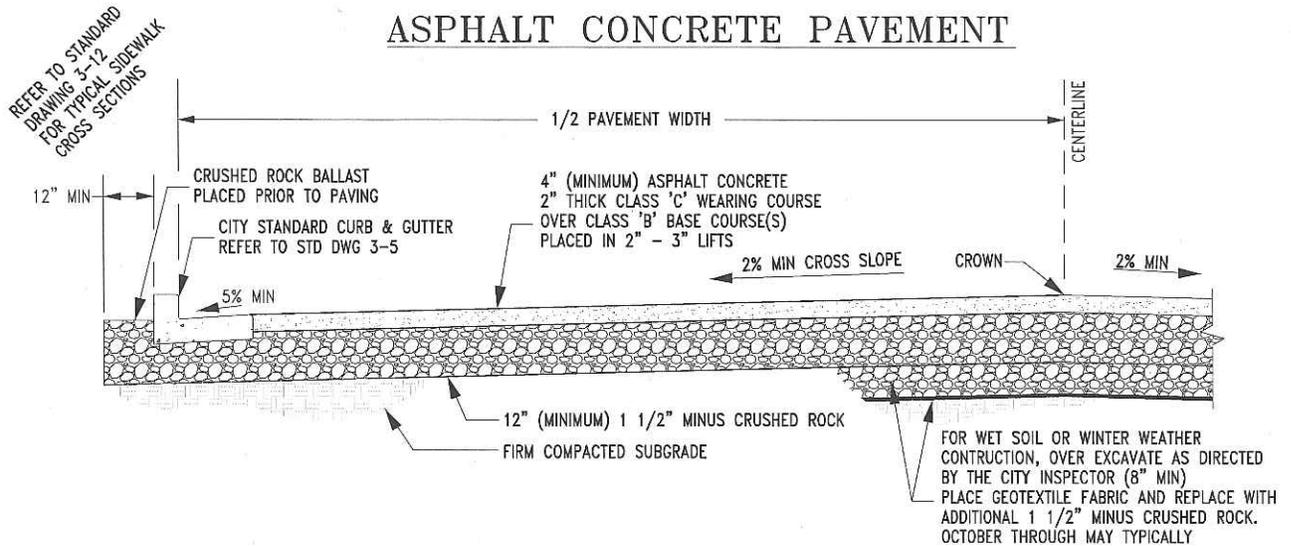


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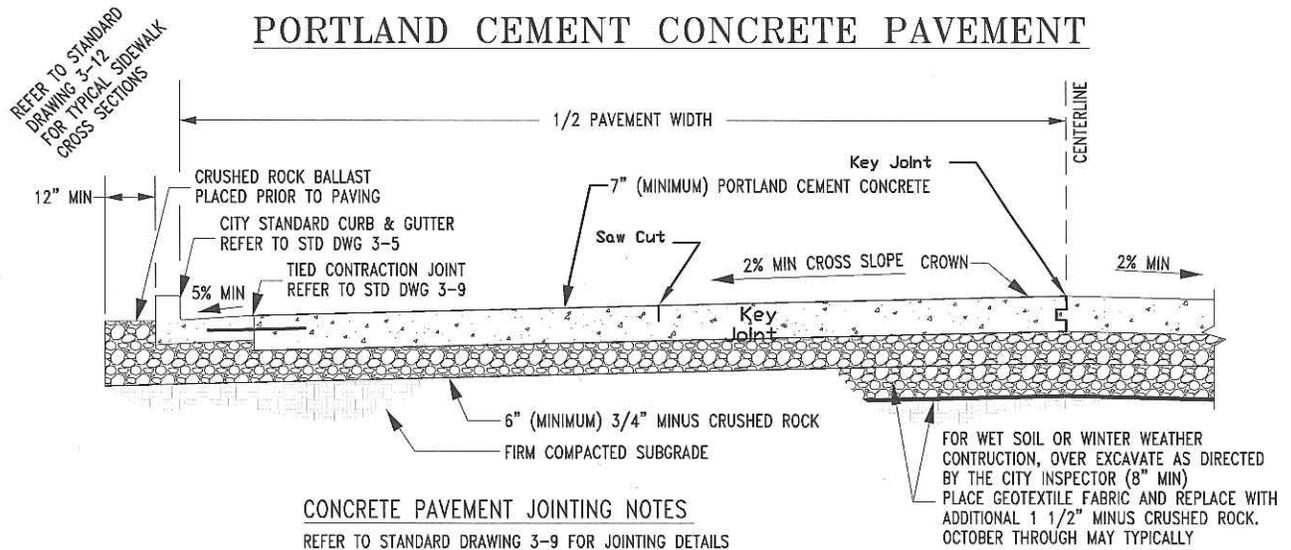
Scale

**SHEET  
 E2**

# ASPHALT CONCRETE PAVEMENT



# PORTLAND CEMENT CONCRETE PAVEMENT



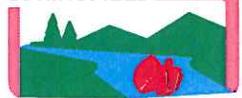
**CONCRETE PAVEMENT JOINTING NOTES**  
REFER TO STANDARD DRAWING 3-9 FOR JOINTING DETAILS

## NOTES

- \* STRUCTURAL THICKNESS IDENTIFIED ON THESE SECTIONS ARE THE MINIMUMS FOR DRY FIRMLY COMPACTED SUBGRADE. THE CITY INSPECTOR MAY REQUIRE OVER EXCAVATION (8" MINIMUM) AND THE PLACEMENT OF GEOTEXTILE FABRIC AND ADDITIONAL CRUSHED ROCK TO ENSURE A FIRM PAVEMENT BASE.
- \* REFER TO SPRINGFIELD STANDARD SPECIFICATIONS FOR ROADWAY STRUCTURE COMPACTION REQUIREMENTS
- \* A PARABOLIC CROWN MAY BE UTILIZED ON LOCAL RESIDENTIAL STREETS. REFER TO STANDARD DRAWINGS 3-4 FOR DETAILS.
- \* SIDEWALKS, ACCESS RAMPS, AND RESIDENTIAL DRIVEWAYS SHALL BE 3000 PSI FIELD STRENGTH (3450 PSI LAB STRENGTH) 6.0 SACK MIX CONCRETE
- \* CURBS & COMMERCIAL DRIVEWAYS SHALL BE 3500 PSI FIELD STRENGTH (4025 PSI LAB STRENGTH) 6.3 SACK MIX CONCRETE
- \* CONCRETE PAVEMENT SHALL BE 4000 PSI FIELD STRENGTH (4600 PSI LAB STRENGTH) 7.0 SACK MIX CONCRETE WITH 1 1/2" MINUS FRACTURED AGGREGATE. PAVEMENT MIX DESIGNS SHALL BE SUBMITTED TO THE CITY FOR APPROVAL PRIOR TO THE SCHEDULED PAVING DATE.

NO	REVISION	DATE	BY	APPR.

CITY OF SPRINGFIELD  
SPRINGFIELD



DEPT. OF PUBLIC WORKS

TYPICAL SECTIONS  
STREET PAVING

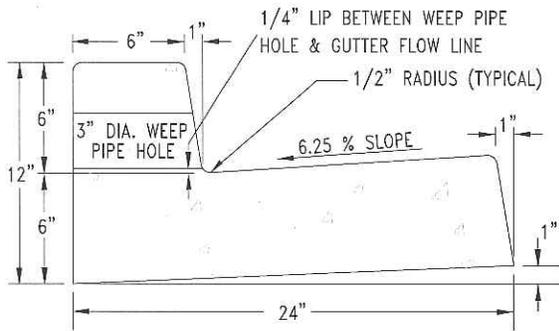
Al Peroutka    City Engineer    2003

STANDARD  
DRAWING

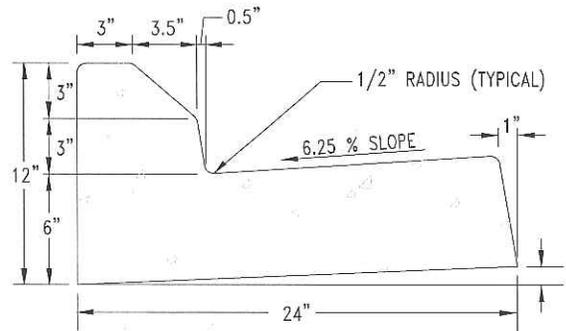
3-1

2003

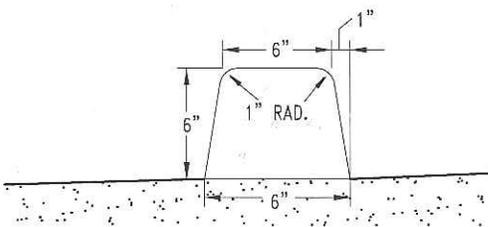
**STANDARD CURB & GUTTER**



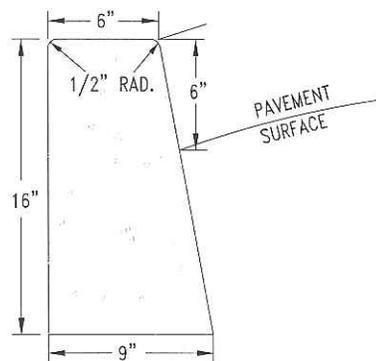
**MOUNTABLE CURB & GUTTER**



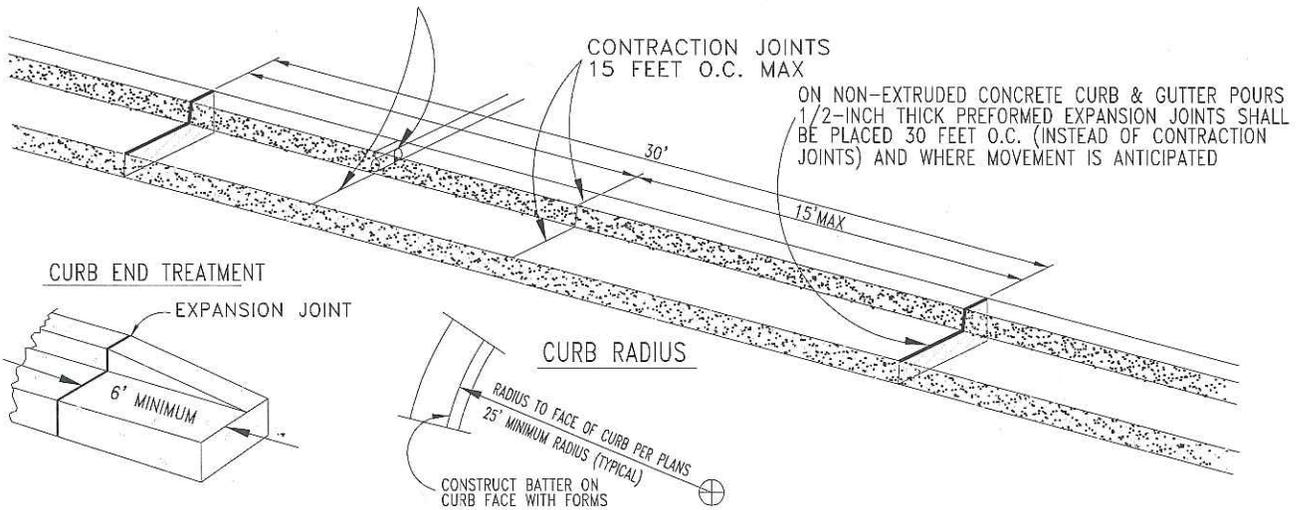
**EXTRUDED CURB**



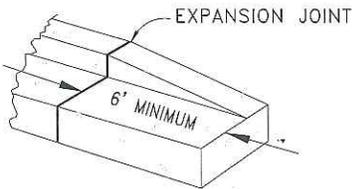
**FULL DEPTH CURB**



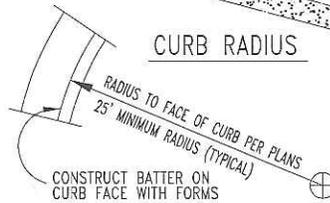
WEEP HOLES SHALL BE PLACED AT 75' O.C. OR AS OTHERWISE SPECIFIED REFER TO STD DWG. 3-XX FOR INSTALLATION DETAILS. IN NEW CONSTRUCTION, PLACE CONTRACTION JOINT OVER & IN FRONT OF PIPE



**CURB END TREATMENT**



**CURB RADIUS**



**NOTES**

- \* WHERE CONCRETE PAVEMENT WILL BE USED, CONTRACTION JOINTS SHALL BE PLACED TO MATCH TRANSVERSE CONTRACTION JOINT LOCATIONS IN STREET PAVEMENT AND 24" #5 REBAR TIE BARS SHALL BE PLACED IN GREEN CONCRETE.
- \* CURB AND GUTTER SURFACES SHALL HAVE A BROOM FINISH PARALLEL TO THE LENGTH OF THE CURB
- \* SIDEWALKS, ACCESS RAMPS, AND RESIDENTIAL DRIVEWAYS SHALL BE 3000 PSI FIELD STRENGTH (3450 PSI LAB STRENGTH) 6.0 SACK MIX CONCRETE
- \* CURBS & COMMERCIAL DRIVEWAYS SHALL BE 3500 PSI FIELD STRENGTH (4025 PSI LAB STRENGTH) 6.3 SACK MIX CONCRETE

NO	REVISION	DATE	BY	APPR.

**CITY OF SPRINGFIELD**  
  
**DEPT. OF PUBLIC WORKS**

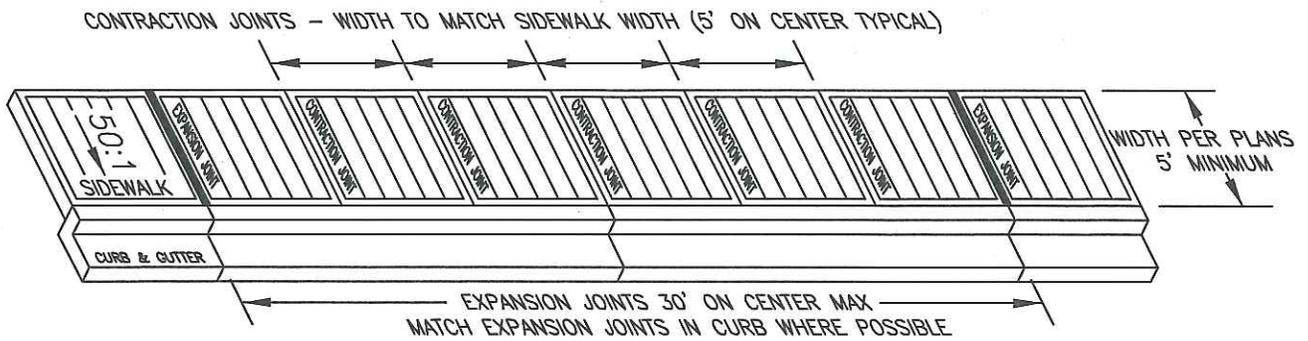
**CURB & GUTTER**

Al Peroutka City Engineer 2003

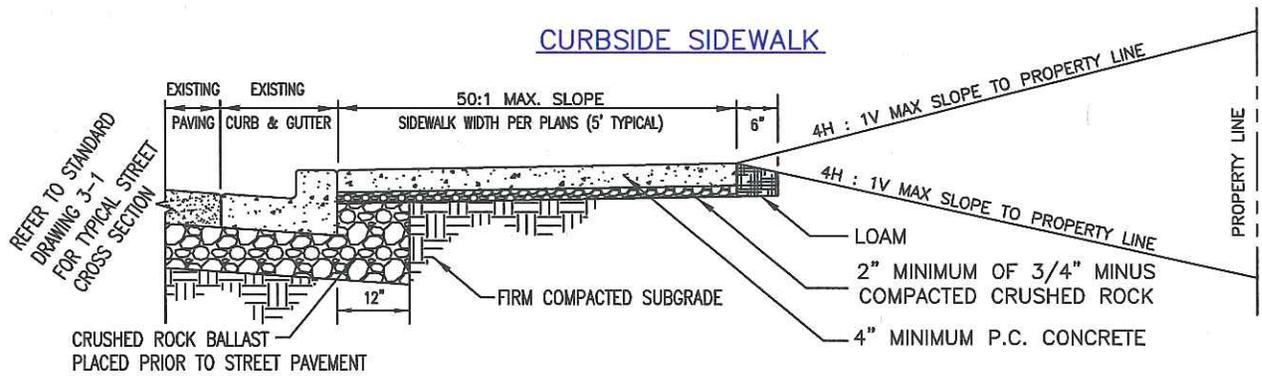
**STANDARD DRAWING**

3-5

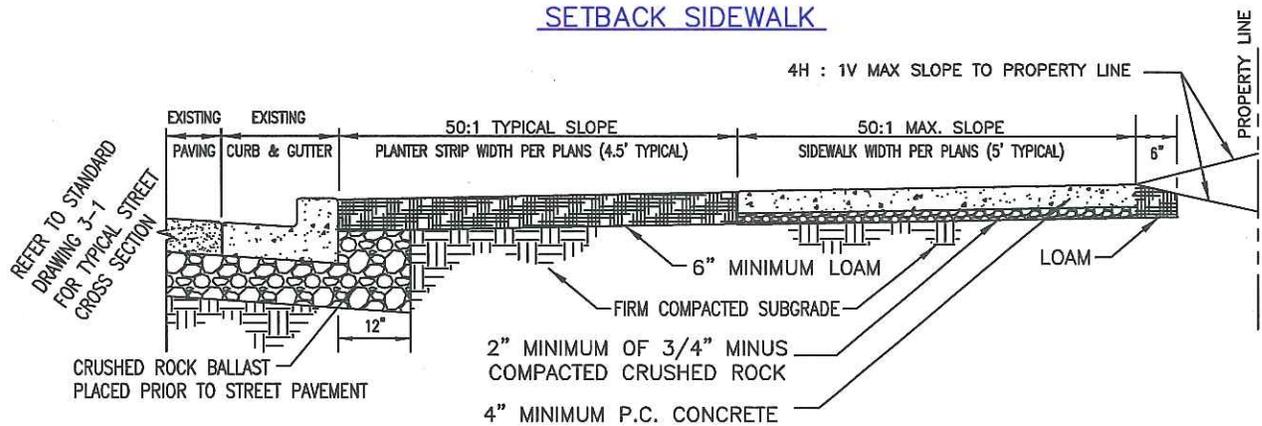
2003



### CURBSIDE SIDEWALK



### SETBACK SIDEWALK



## NOTES

- \* NO ABOVEGROUND FACILITIES (FIRE HYDRANTS, POWER POLES, CATCH BASINS, VALVES, J-BOXES, ETC.) SHALL BE PERMITTED WITHIN THE SIDEWALK AREA
- \* ALL SURFACES SHALL HAVE A BROOM FINISH.
- \* SIDEWALKS, ACCESS RAMPS, AND RESIDENTIAL DRIVEWAYS SHALL BE 3000 PSI FIELD STRENGTH (3450 PSI LAB STRENGTH) 6.0 SACK MIX CONCRETE
- \* CURBS & COMMERCIAL DRIVEWAYS SHALL BE 3500 PSI FIELD STRENGTH (4025 PSI LAB STRENGTH) 6.3 SACK MIX CONCRETE

NO	REVISION	DATE	BY	APPR.



## SIDEWALK CONSTRUCTION

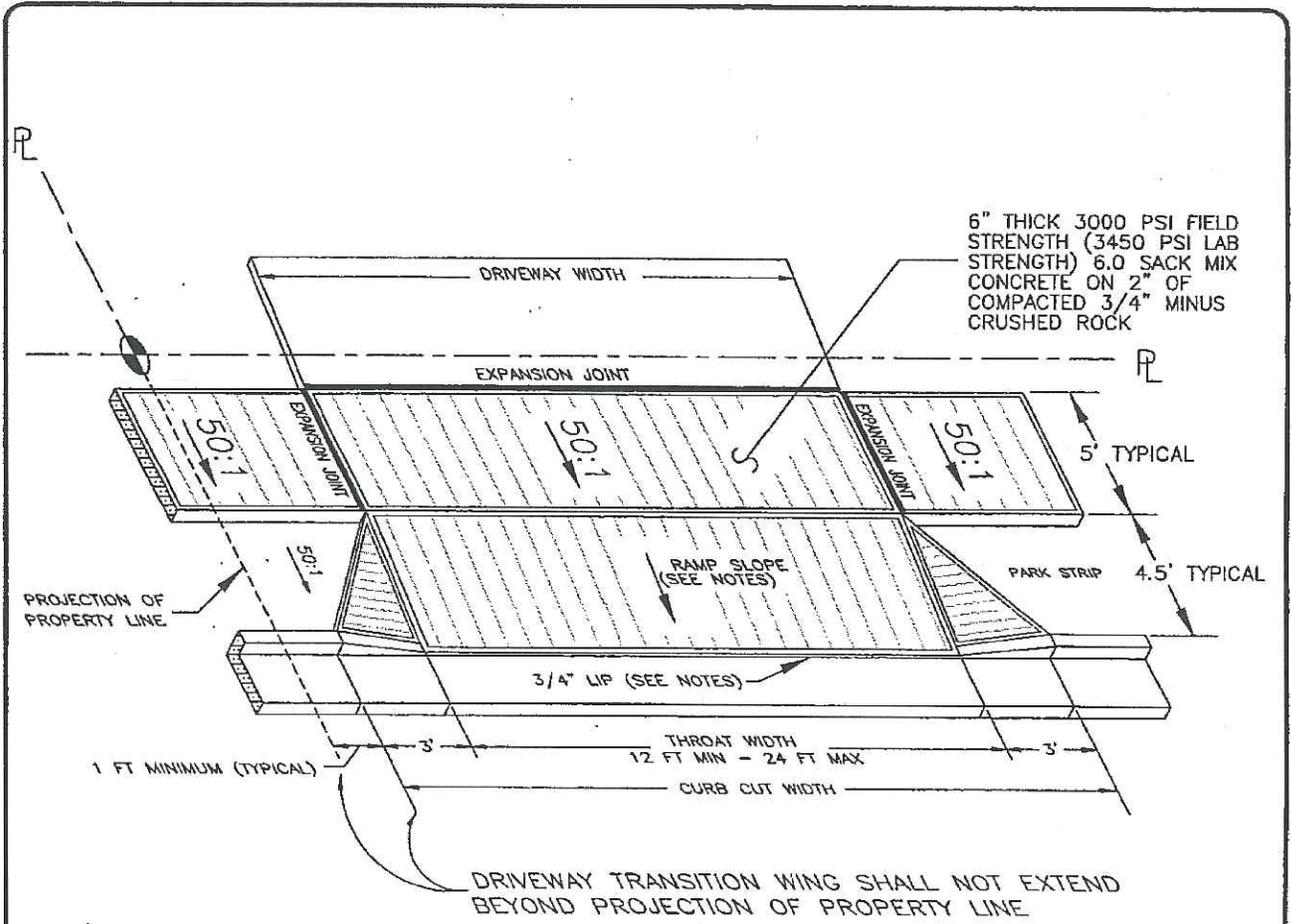
STANDARD  
DRAWING

3-12

2003

Al Peroutka City Engineer 2003

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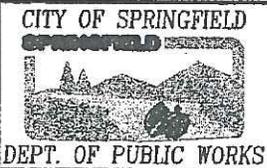
**NOTES**

- \* NO ABOVE-GROUND FACILITIES (FIRE HYDRANTS, POWER POLES, CATCH BASINS, VALVES, J-BOXES, ETC.) SHALL BE PERMITTED WITHIN THE APRON AREA
- \* THIS STANDARD DRAWING SHALL BE USED FOR SINGLE FAMILY HOMES AND DUPLEXES ONLY. REFER TO COMMERCIAL DRIVEWAY APRON DRAWING(S) FOR OTHER DEVELOPMENT TYPES
- \* THROAT WIDTH SHALL BE BETWEEN 12 FEET (MINIMUM) AND 24 FEET (MAXIMUM)
- \* ALL SURFACES SHALL HAVE A BROOM FINISH.
- \* REFER TO STANDARD DRAWING 3-7 FOR CURB CUT DETAILS
- \* CONCRETE IN APPROACH AND SIDEWALK BEHIND APPROACH SHALL BE 6" THICK (MIN) ON 2" OF 3/4" MINUS CRUSHED ROCK.
- \* NO REINFORCEMENT IS REQUIRED
- \* A CONTRACTION (SCORE) JOINT SHALL BE ADDED IN THE CENTER OF THE APRON WHEN THE THROAT WIDTH EXCEEDS 20 FT.
- \* SIDEWALKS, ACCESS RAMPS, AND RESIDENTIAL DRIVEWAYS SHALL BE 3000 PSI FIELD STRENGTH (3450 PSI LAB STRENGTH) 6.0 SACK MIX CONCRETE
- \* CURBS & COMMERCIAL DRIVEWAYS SHALL BE 3500 PSI FIELD STRENGTH (4025 PSI LAB STRENGTH) 6.3 SACK MIX CONCRETE

**SIDEWALK ACCESS RAMP NOTES**

- IF THIS DRIVEWAY APPROACH IS TO ALSO SERVE AS AN SIDEWALK ACCESS RAMP ALL OF THE FOLLOWING APPLY:
- \* RAMP SLOPE SHALL NOT EXCEED 12:1 RELATIVE TO THE HORIZONTAL.
  - \* NO LIP SHALL BE PLACED AT THE GUTTER BAR.

NO.	REVISION	DATE	BY	APPR.

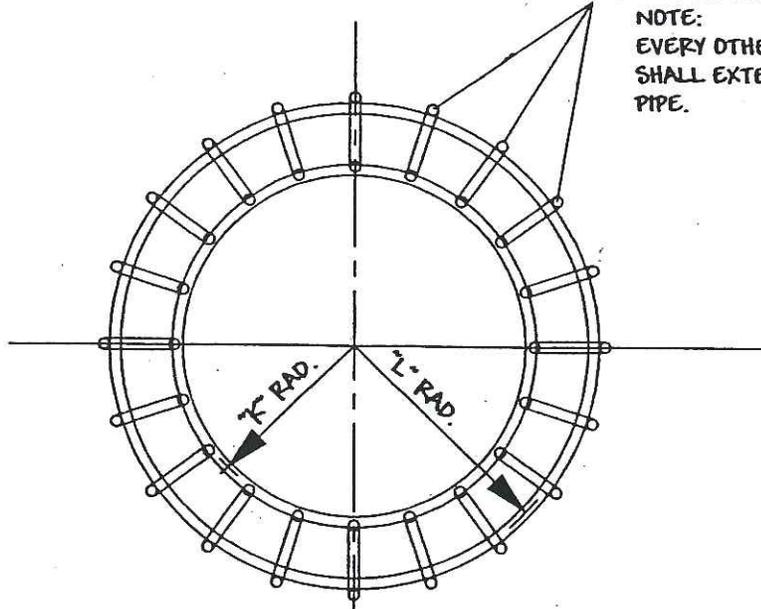


RESIDENTIAL DRIVEWAY APRON  
SETBACK SIDEWALK

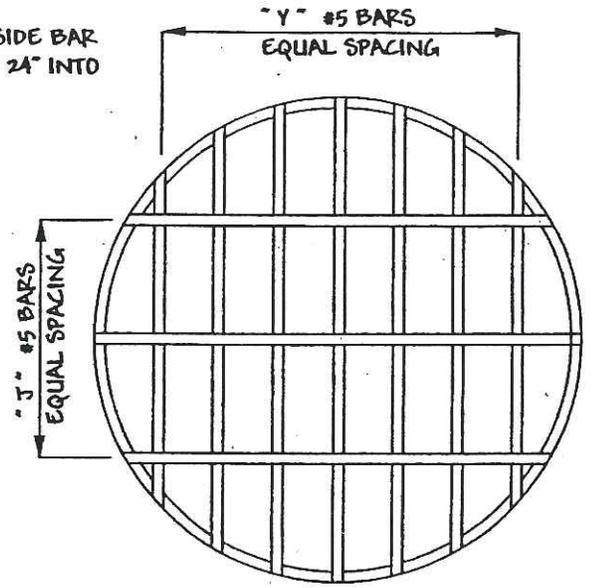
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STANDARD DRAWING  
3-21  
2003

**TOP VIEW**



**TOP STEEL**

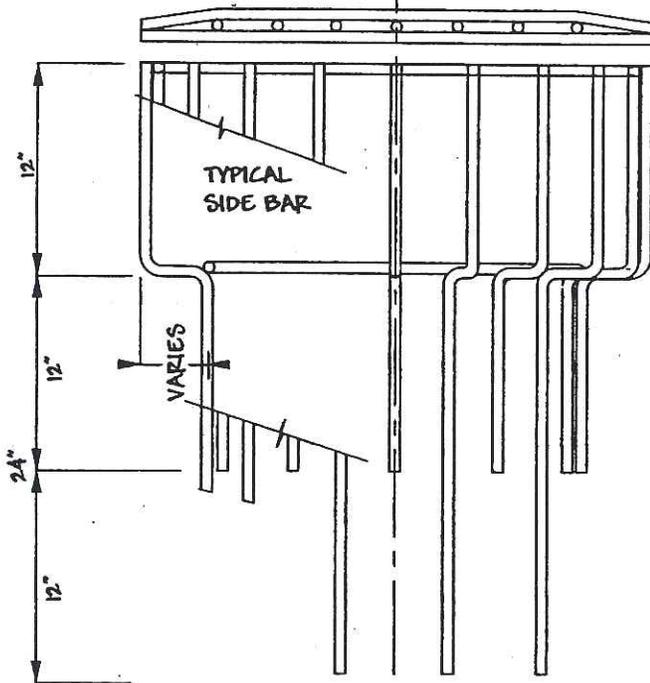


"X" #5 BARS  
EVENLY SPACED

NOTE:  
EVERY OTHER SIDE BAR  
SHALL EXTEND 24" INTO  
PIPE.

"Y" #5 BARS  
EQUAL SPACING

"J" #5 BARS  
EQUAL SPACING



**SIDE VIEW**

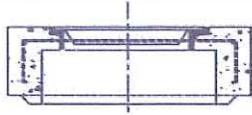
PIPE DIA. INSIDE DIA. (IN)	RADIUS "K" (IN)	RADIUS "L" (IN)	NO. BARS "X"	NO. BARS "Y"	NO. BARS "J"
10	4.5	7	6	2	3
12	6.5	8.5	6	2	3
15	6.5	9.5	6	2	3
18	8	11	8	2	3
21	9.5	12.5	10	3	3
24	11.5	14.5	12	3	3
27	13	16	14	4	3
30	14.5	17.5	16	4	4
36	17.5	20.5	18	5	4
42	20.5	23.5	22	6	4
48	23.5	26.5	24	7	5
54	26.5	29.5	26	8	6
60	29.5	32.5	30	9	7
72	35.5	38.5	36	11	8

REVISION	DATE	BY	APP.

CITY OF SPRINGFIELD  
DEPT. OF PUBLIC WORKS  
  
225 FIFTH STREET  
SPRINGFIELD, OR. 97477

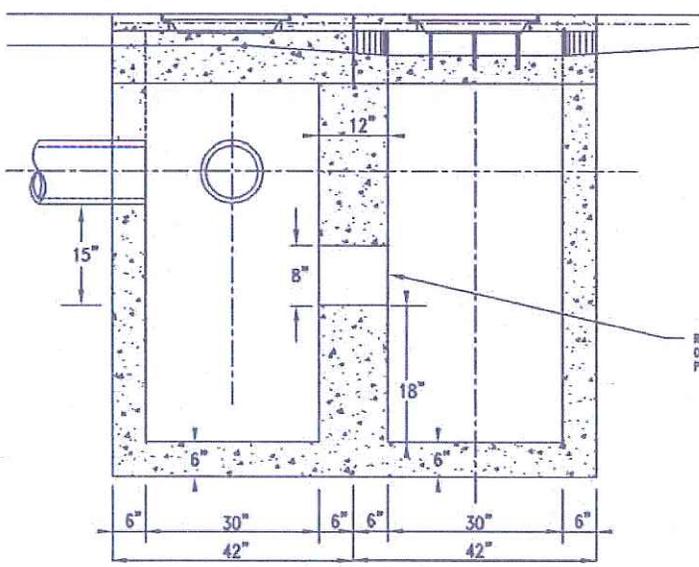
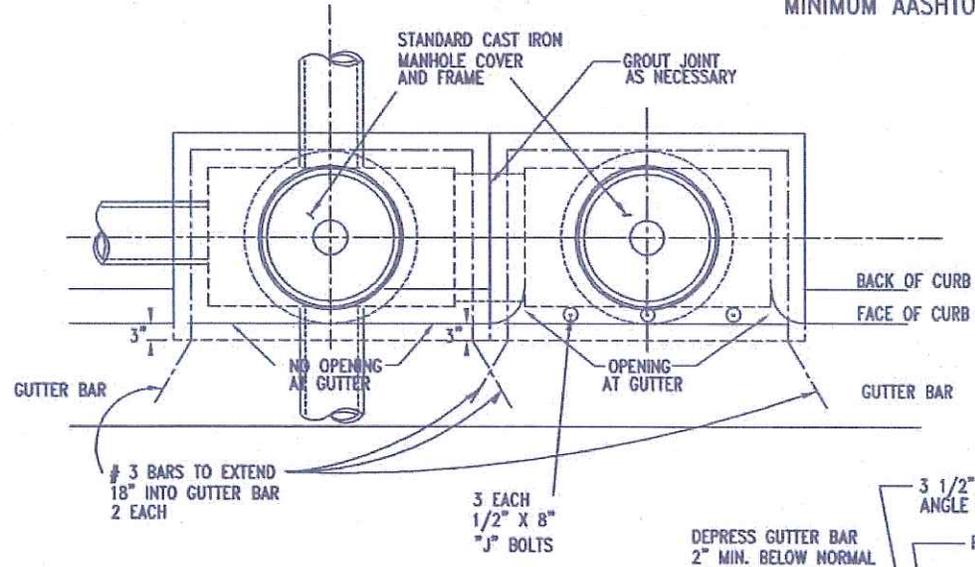
**TRASH RACK**

STANDARD  
DRAWING



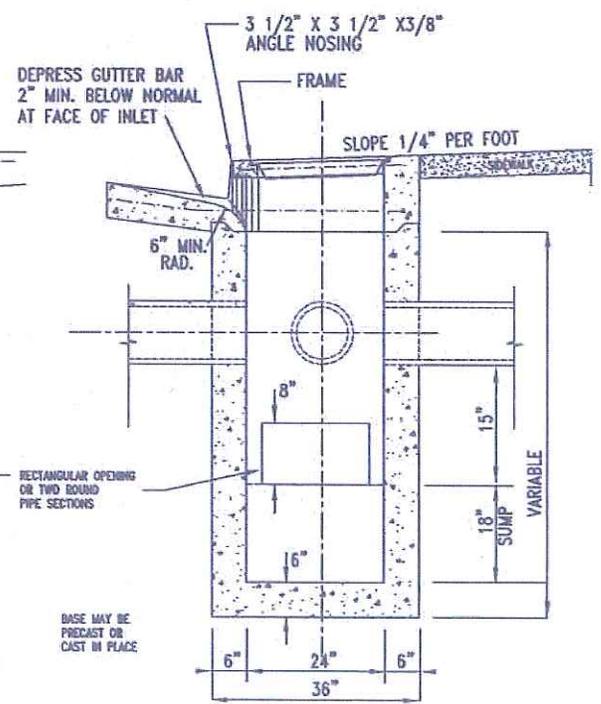
PRECAST UPPER SECTION WITH LID

- ALL CONCRETE SHALL BE MIN. 3500 PSI COMPRESSIVE STRENGTH AT 28 DAYS
- UPPER SECTION TO BE (2) 2 1/2A STORM INLET BY ROGER LANGLIERS CONCRETE COMPANY OR EQUAL
- ALL COMPONENTS SHALL WITHSTAND MINIMUM AASHTO HS-20 LOADING



2 1/2A

2 1/2A



BASE MAY BE PRECAST OR CAST IN PLACE

NO	REVISION	DATE	BY	APPR.

CITY OF SPRINGFIELD  
SPRINGFIELD



DEPT. OF PUBLIC WORKS

CURB INLET CATCH BASIN  
MODIFIED TYPE 2 1/2A

*Ken Vogeneity*  
Ken Vogeneity City Engineer 2006

STANDARD  
DRAWING

4-21  
2006