

City of Springfield Public Improvement Project

Invitation to Bid for:

P21117

Main Street Pedestrian Crossing Construction – Phase 2

The information provided is an abridged version of the complete Invitation to Bid and is provided for review and informational purposes only. To submit a bid for consideration, a complete set of bid documents is required.

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



City of Springfield
Community Development Division

SPECIFICATIONS
for

Project P21117

**Main Street Pedestrian Crossing
Construction – Phase 2**

MANDATORY PRE-BID MEETING

Date: May 10, 2016

Time: 9:00 a.m.

Location: City of Springfield

City Hall

Library Meeting Room

225 Fifth Street

Springfield, OR 97477

BID OPENING

Date: May 25, 2016

Time: 2:00 p.m.

Location: City of Springfield

City Hall

Library Meeting Room

225 Fifth Street

Springfield, OR 97477

The deadline for submission of project specific questions prior to bid opening is May 17, 2016 at 10:00 a.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 25th day of May, 2016 and opened immediately thereafter, for the construction of the following public works improvement project in the City of Springfield:

Project No. P21117 Title: Main Street Pedestrian Crossing Construction – Phase 2

Description: Construct two (2) pedestrian crossings on Main Street near 48th Street and near Chapman Lane, each with a center island and flashing lights, and with pavement markings.

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 \$50.00 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 \$43.00 or can be viewed on-line at <http://www.springfield-or.gov/DPW/StandardConstructionSpecifications.htm>.

A **MANDATORY** pre-bid meeting will be held on May 10, 2016 at 9:00 a.m. in the Library Meeting Room.

All questions should be addressed to Terri White, Management Support Specialist, at 541-726-3628 or twhite@springfield-or.gov. The deadline for submission of questions regarding this Invitation to Bid is May 17, 2016 at 10:00 a.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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Solicitation Number 1642



City of Springfield
 225 Fifth Street
 Springfield, OR 97477

Bid Submittal

Project No. P21117

Project Title: Main Street Pedestrian Crossing Construction – Phase 2

Bid Items:

Item No.	Description	Approx. Quantity	Per	Unit Price	Total Price Extension
Construction Bid Items					
0060	Mobilization	1	L.S.		
0064	Erosion Control	1	L.S.		
0069	Restoration and Cleanup	1	L.S.		
0073	Boring With 6-inch PVC Conduit	180	L.F.		
0079	Remove Tree and Stump	1	EA		
0086	Aggregate Base ¾ - 0	41	TON		
0103	4-inch Asphalt Pavement Restoration, Level 2, Class C	1,717	S.F.		
0120	6-inch Concrete Driveway	265	S.F.		
0137	4-inch Concrete Sidewalk With Ramps/Island Walk	1,447	S.F.		
0141	Truncated Domes for Handicap Ramps	12	EA		
0189	5-inch Non-reinforced Median-doweled Concrete	500	S.F.		
0197	Saw-cutting Existing Surface	445	L.F.		
0331	Catch Basin	1	EA		
Total Construction Bid Items					
Traffic Bid Items					
0061	Temporary Traffic Control	1	L.S.		
0234	4-inch Yellow Plastic Striping	720	L.F.		
0243	24-inch White Plastic Striping - Crossing	300	L.F.		
0620	Install New Street Signs	10	EA		
0671	Rectangular Rapid Flashing Beacon (RRFB) System – Complete in Place	2	EA		
Total Traffic Bid Items					
Project Bid Item Total:\$					

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 P21117 in accordance with this Bid, the Contract Plans, City of Springfield Standard Construction Specifications, 1994 Edition, and all subsequent modifications, 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 \$200.00 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 Bid until written Notice to Proceed has been received. The Contractor shall complete the work under this Bid within 20 consecutive working days from the date of actual commencement of work or the date occurring ten days after the date of the Notice to Proceed, whichever occurs first, or such other starting date as is fixed by the Notice to Proceed. All work on this project shall be completed no later than September 31, 2016.

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

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

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 January 1, 2016.*
- 2.) *Prevailing Wage Rates State Apprenticeship Rates with an effective date of April 1, 2016.*
- 3.) *The following Amendments to the Prevailing Wage Rates for Public Works Contracts in Oregon also apply;*
 - a.) *April 1, 2016 Prevailing Wage Rate Amendments*



CITY OF SPRINGFIELD

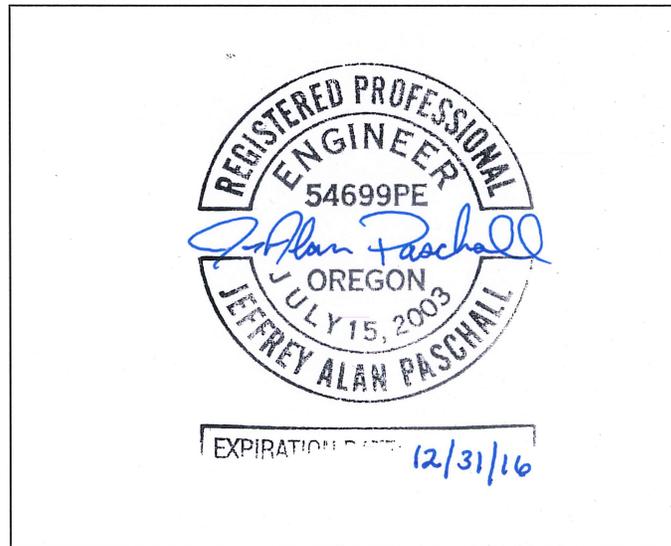
Special Provisions

for

P21117

Main Street Pedestrian Crossing Construction – Phase 2

Engineer's Seal



SPECIAL PROVISIONS

References to number of Divisions, Section, Sub-Section and the like shall mean the 1994 Edition of the Standard Construction Specifications, including all Addenda, Standard Drawings, and other Contractual Documents of the City of Springfield, Lane County, Oregon.

These Special Provisions supplement and amplify certain sections of the City of Springfield, Oregon, [Standard Construction Specifications](#). The Standard Construction Specifications shall apply except as modified herein. These Special Provisions and additional technical specifications may contain occasional requirements not pertinent to the project. However, these specifications shall apply in all particulars insofar as they are applicable to this project.

SECTION A – General Requirements

P21117 – Main Street Pedestrian Crossing Construction - Phase 2

A1.1 Applicable Standard Specifications

The 1994 Edition of the Standard Construction Specifications of the City of Springfield, Oregon, Standard Construction Specifications (including all revisions at date of bid opening), shall apply to this Invitation to Bid and construction contract except as may be modified herein. In the case of discrepancy, unless noted otherwise herein, the more restrictive provisions shall apply.

A1.2 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."

A1.3 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(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 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."

A1.4 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."

A1.5 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. 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."

A1.6 Familiarity With Laws and Ordinances

REPLACE THE 3RD 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"

A1.7 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."

A1.8 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. 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 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 its 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. 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."

A1.9 Submission of Certified Payroll

REPLACE THE 2ND 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 5th 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."

A1.10 Progress Payment

REPLACE THE 6TH 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 20th 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 20th 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."

A1.11 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.

A1.12 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.

A1.13 Brand Name or Equal Specification

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.

END OF SECTION

SPECIAL PROVISIONS

SECTION B – General Conditions

P21117 - Main Street Pedestrian Crossings Construction - Phase 2

B1. GENERAL

B 1.1 Project Description

The work to be performed under these specifications and drawings consists of the following:

Construct two (2) pedestrian crossings on Main Street near 48th Street and near Chapman Lane, each with a center island and flashing lights, and with pavement markings.

The above general outline of principal features of the work does not in any way limit the responsibility of the CONTRACTOR(s) to perform all work and furnish all equipment, labor and materials required by the specifications and drawings. The drawings and specifications shall be considered and used together. Anything appearing as a requirement of either shall be accepted as applicable to both even though not so stated therein or shown.

No attempt has been made in these specifications or drawings to segregate work covered by any trade or subcontract under one specification. Such segregation and establishment of subcontract limits will be solely a matter of specific agreement between the CONTRACTOR and its subcontractors and shall not be based upon any inclusion, segregation or arrangement in or of these specifications.

B 1.2 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.

B 1.3 Permits and Licenses

The CONTRACTOR shall comply with all permit conditions, provisions and limitations. Such conditions and requirements are hereby made a part of these specifications, as fully and completely as though the same were fully set forth herein. The CONTRACTOR shall examine the permit(s) granted by any city, county and state agencies. Failure to do so will not relieve the CONTRACTOR from compliance with the requirements stated therein.

B 1.4 Site Investigation and Physical Data

The CONTRACTOR acknowledges that it is satisfied as to the nature and location of the work and the general and local conditions, including but not limited to those bearing upon transportation, disposal, handling and storage of materials, availability of water, roads, groundwater, access to the sites, coordination with other contractors, and conflicts with pipelines, structures and other contractors. Information and data furnished or referred to herein is provided for information only. Any failure by the CONTRACTOR to become acquainted with the available information and

existing conditions will not be a basis for relief from successfully performing the work and will not constitute justification for additional compensation.

The CONTRACTOR shall verify the locations and elevations of existing pipelines, structures, grades and utilities, prior to construction. The OWNER assumes no responsibility for any conclusions or interpretations made by the CONTRACTOR on the basis of the information made available.

B 1.5 Work Hour Limitations

All work shall be conducted between the hours of 7:00 a.m. and 6:00 p.m. on weekdays. Requests for variations in work hours shall be made in writing and shall be submitted to the ENGINEER for approval by the City Council before any after hour work can occur. Work on Saturdays and Sundays must be approved by the ENGINEER.

See also Section E, Traffic Control, of these Special Provisions.

B 1.6 Record Drawings

CONTRACTOR shall maintain at the site one set of specifications, full size drawings, shop drawings, equipment drawings and supplemental drawings which shall be corrected as the work progresses to show all changes made. Drawings shall be available for inspection by the ENGINEER. Upon completion of the contract and prior to final payment, specifications and drawings shall be turned over to the ENGINEER.

B 1.7 Competent Person Designation

CONTRACTOR shall designate a qualified and experienced "competent person" at the site whose duties and responsibilities shall include enforcement of Oregon - OSHA regulations regarding excavations, the prevention of accidents, and the maintenance and supervision of construction site safety precautions and programs.

B 1.8 Vehicle Parking

The vehicles of the CONTRACTOR's and subcontractors' employees shall be parked in accordance with local parking ordinances.

B 1.9 Street Cleanup

Refer to Erosion Control Notes on plan sheets.

B 1.10 Survey Services

The City of Springfield shall provide survey services as required and as described in Section 105.09 and 105.10 of the Standard Construction Specifications.

B 1.11 Order of Work

CONTRACTOR shall schedule work such that all construction and restoration is completed before September 30, 2016.

B 1.12 On-Site Sanitary Facilities

The CONTRACTOR shall provide and maintain sanitary facilities for its employees and its subcontractors' employees that will comply with the regulations of the local and State Departments of Health and as directed by the ENGINEER.

B 1.13 Private Roads and Driveways

See City of Springfield's Standard Construction Specifications section 107.13.

B 1.14 Erosion and Sedimentation Control

Temporary construction site erosion control measures shall be designed and constructed in accordance with the City's NPDES 1200-CA Permit, copy available from the City. Work shall not commence until the approved erosion and sedimentation control measures are in place. Refer to Erosion and Sediment Control notes on plan sheets.

Dewatering of trenches and other excavation shall be managed in accordance with Section 401.3.04 of the Standard Construction Specifications and the Erosion Control Standard Notes on the Plan Sheets.

B 1.15 Compaction Testing

Refer to City of Springfield's Standard Construction Specifications section 405.3 for trench compaction. No native backfill shall be used during the construction of this project.

Compaction for base rock in street reconstruction is covered in section 305.3.06.

B 1.16 Utility Properties and Services

In areas where the CONTRACTOR's operations are adjacent to or near a utility and such operations may cause damage which might result in significant expense, loss and inconvenience, the operations shall be suspended until all arrangements necessary for the protection thereof have been made by the CONTRACTOR.

The CONTRACTOR shall notify all utility offices which may be affected by the construction operation at least 48 hours in advance. Before exposing any utility, the utility having jurisdiction shall grant permission and may oversee the operation. Should service of any utility be interrupted due to the CONTRACTOR's operation, the proper authority shall be notified immediately. It is of the utmost importance that the CONTRACTOR cooperates with the said authority in restoring the service as promptly as possible. Any costs shall be borne by the CONTRACTOR.

In the event that SUB electrical is needed to suspend their power poles during construction, all costs shall be borne by the City. The CONTRACTOR shall notify SUB Electric two working days before the poles must be held.

Utilities which may be impacted include the following:

Electric	Springfield Utility Board (SUB)
Water	Springfield Utility Board (SUB)
Telephone	Century Link
Gas	Northwest Natural
Cable	Comcast
Sanitary Sewer	City of Springfield

Storm Sewer
Street Lighting
Traffic Signals
Highways
Fiber Optics

City of Springfield
City of Springfield
City of Springfield
ODOT
Sprint

B 1.17 Submittals

The CONTRACTOR shall provide shop drawings, schedules and such other drawings as may be necessary for the prosecution of the work in the shop and in the field as required by the contract documents or ENGINEER's instruction.

Within 14 days after award of the contract, the CONTRACTOR shall submit to the ENGINEER a proposed list of manufacturers, suppliers, and subcontractors and a schedule of specific target dates for the submission and return of shop drawings required by the contract documents. Said list and schedule shall be updated and re-submitted when requested by the ENGINEER. All shop drawings for interrelated items shall be scheduled for submission at the same time. Not less than 1 week shall be allocated to each submittal for processing by the ENGINEER. At least six (6) copies of all submittals shall be provided to the ENGINEER. Four copies of all submittals will be kept by the ENGINEER. If the CONTRACTOR requests that more than two (2) copies be returned, then the CONTRACTOR shall submit the appropriate quantity of submittals.

The ENGINEER will review shop drawings to determine compliance with the design concept of the project and return them to the CONTRACTOR within the period established in the shop drawings schedule. The ENGINEER may hold shop drawings in cases where partial submission cannot be reviewed until the complete submission has been received or where shop drawings cannot be reviewed until correlated items affected by them have been received. When such shop drawings are held, the ENGINEER will advise the CONTRACTOR in writing that the shop drawing submitted will not be reviewed until shop drawings for all related items have been received.

The CONTRACTOR shall submit to the ENGINEER, for review, six copies each of such shop drawings, electrical diagrams and catalog information for fabricated items and manufactured items required for construction. The ENGINEER will review the submitted data and shop drawings, and will make notations thereon indicating "No Exception Taken", "Make Corrections Noted", "Rejected", "Revise and Resubmit", or "Submit Specified Item". The ENGINEER will then return two copies of the submitted data and shop drawings to the CONTRACTOR. The ENGINEER's review of submittals and shop drawings is not a check of any dimension or quantity, and will not relieve the CONTRACTOR from responsibility for errors of any sort in the submittals and shop drawings.

When shop drawings and/or submittals are required to be revised or corrected and resubmitted, the CONTRACTOR shall make such revisions and/or corrections and resubmit those items or other materials in the same manner as specified above.

Submitted data shall be sufficient in detail for determination of compliance with the Contract Documents. Color samples for all items for which colors are to be selected shall be submitted at the same time. No equipment or material for which listings, drawings, or descriptive material is required shall be installed until the CONTRACTOR has received review from the ENGINEER.

Regardless of corrections made in or review given to the drawings by the ENGINEER, the CONTRACTOR shall be responsible for the accuracy of such drawings and for their conformity to the drawings and specifications. The CONTRACTOR shall check all submittals before submitting them to the ENGINEER and shall stamp its approval on all copies of the shop drawing documents. Any submittals received by the ENGINEER which do not bear the CONTRACTOR's approval shall be returned without review. If more than two submissions are required to meet

the project specifications, the cost of reviewing these additional submissions may be charged directly against the CONTRACTOR and the OWNER may withhold the funds necessary to cover these costs.

Materials and equipment shall be ordered a sufficient time in advance to allow time for reviews, and shall be available on the job when needed. Last minute review will not be given for inferior substitutes for material or equipment.

Required submittals include items listed below. List is provided for CONTRACTOR convenience only and may not be complete in all respects. CONTRACTOR shall provide all submittals required, whether or not specifically listed herein.

- A. Shop Drawings - The CONTRACTOR shall provide shop drawings, schedules and such other drawings as may be necessary for the prosecution of the work in the shop and in the field as required by the contract documents or ENGINEER's instruction.
- B. Erosion Control Plan
- C. Materials Lists
- D. CONTRACTOR Contact Persons
- E. Material Safety Data Sheet
- F. Traffic Control Plan
- G. Miscellaneous Materials and Other Submittals (See Specifications)
- H. Spill Containment and Cleanup Plan

B 1.18 Noise Limitations

All applicable City, County ordinances and State regulations shall be complied with.

END OF SECTION

SPECIAL PROVISIONS

SECTION C – Measurement and Payment

P21117 - Main Street Pedestrian Crossing Construction – Phase 2

C1. GENERAL

Measurement and payment will be on a unit price basis in accordance with the prices set forth in the bid for individual work items. Where work is required but does not appear as a separate item in the bid, the cost for that work shall be included and absorbed in the unit prices named in the bid. CONTRACTOR shall make a careful assessment when preparing the bid.

Construction

<u>Bid Item No.</u>	<u>Description</u>
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0060.	<u>Mobilization</u> : Measurement and payment for mobilization shall be by Lump Sum (L.S.) basis. See section 201 of the Standard Specifications.
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0064.	<u>Erosion Control</u> : Measurement and Payment for erosion control shall be on a Lump Sum (L.S.) basis. Refer to Erosion_Control Standard Notes on the Plan Sheets.
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0069.	<u>Restoration and Cleanup</u> : Measurement and payment for restoration and cleanup of landscaping to the satisfaction of the ENGINEER, the City and the property owner will be paid for on a Lump Sum (L.S.) basis. The pay area for surface restoration will be those areas disturbed within the limits of the removal areas, restoration areas and public rights-of-way. The work associated with this item consists of landscaping restoration including restoring and installation of irrigation systems, shrubs, bushes, trees, topsoil, rock and any other items associated to landscaping as called out on the plans within the authorized work areas. All work performed will conform to the requirements set forth in ORS 279C.510. Common excavation and removal for this work shall be considered incidental for bidding purposes.
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0073.	<u>Boring With 6-inch PVC Conduit</u> : Measurement and payment for boring shall be on a Linear Foot (L.F.) basis and shall include all labor, materials, equipment, utility company fees and City Building Department fees to perform the boring necessary to install the PVC conduit as called out on the project plans to cross Main Street. Boring shall include the installation of two (2) 2-inch PVC conduit runs located in a 6-inch PVC carrier pipe. All PVC conduit shall be considered incidental to this bid item. All fittings, conduit sweeps, bushings clamps, and accessories shall be considered incidental to this bid item. Conduits constructed under asphalt or concrete shall be installed by a City approved method. A water jet or other similar method that will undermine the stability and strength of the compacted structural support of the asphalt or concrete feature will NOT be allowed. All asphalt, sidewalk or curbing concrete repair or replacement work shall be considered incidental to this bid item and shall comply with City specifications. All concrete repairs shall extend to existing joint lines to include full panel replacement.
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0079.	<u>Remove Tree and Stump</u> : Measurement and payment for removal of tree and stump shall be on a per EACH (EA) basis. Common excavation for this work shall be considered incidental for bidding purposes.
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0086.	<u>Aggregate Base 3/4 - 0</u> : Measurement and payment for aggregate base rock shall be by on a per TON basis. Payment shall be based on the quantities on load tickets collected by the Inspector. Common excavation for this work shall be considered incidental for bidding purposes.
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0103. 4-inch Asphalt Pavement Restoration; Level 2, Class C: Measurement and payment for asphalt pavement restoration shall be on a per Square Foot (S.F) basis of asphalt pavement installed. This item is to be used for final restoration of pavement of 4-inch level 2, class C. Furnishing and installing **temporary** paving or its maintenance during construction is considered to be incidental work and no additional payment will be made. Saw cutting shall be paid for under bid item 0197, Saw-Cutting Existing Surface. No additional payment will be made for surface damaged or otherwise removed outside areas shown for removal on the plans. Common excavation, removal of concrete/asphalt and all other activities necessary for this work shall be considered incidental for bidding purposes.

All asphalt pavement restoration under this bid item is Level 2, Class C mix.

0120. 6-inch Concrete Driveway: Measurement and payment for 6-inch thick concrete driveway shall be on a per Square Foot (S.F.) basis. Refer to City Standard Drawing 3-20 for Residential Driveway. All curbing including tapers and depressed areas are considered incidental to this bid item. Common excavation, removal of concrete/asphalt and all other activities necessary for this work shall be considered incidental for bidding purposes.

0137. 4-inch Concrete Sidewalk With Ramps/Island Walk: Measurement and payment for 4-inch thick concrete sidewalk with ramps/island walk shall be on a per Square Foot (S.F.) basis. This item is to be used to replace sidewalks and miscellaneous concrete 4-inches thick. All ADA compliant ramp areas and associated front, back, tapered and depressed curbing is considered incidental to this bid item. Refer to City Standard Drawing 3-12 for Sidewalk Construction. Common excavation, removal of concrete/asphalt and all other activities necessary for this work shall be considered incidental for bidding purposes.

0141. Truncated Domes for Handicap Ramps: Measurement and payment for truncated domes on handicap ramps shall be on a per EACH (EA) basis for truncated dome panels 2-feet by 5-feet in size.

0189. 5-inch Non-reinforced Median-doweled Concrete: Measurement and payment for 5-inch non-reinforced median-doweled concrete shall be on a per Square Foot (S.F.) basis. Included in this bid item are Type 1 – Two Way Yellow Reflective Markers and should be considered incidental to this bid item.

0197. Saw-cutting Existing Surface: Measurement and payment for saw-cutting existing surfacing, to include AC and concrete surfaces, shall be on a per Linear Foot (L.F.) basis and shall include the total sawed length of the initial trench width cuts and the total sawed length of the subsequent tee-cuts as shown on the standard trench detail. Refer to City Standard Drawing 4-16 for Surface Restoration Over Trench Excavation.

0331. Catch Basin: Measurement and payment for the new catch basin shall be on a per EACH (EA) basis and shall include all materials, connectors and labor to install and connect the catch basin including frame and grate. Common excavation and removal of existing catch basin and pipe, including plugging and repair of existing pipe for this work, shall be considered incidental for bidding purposes.

Traffic Bid

<u>Item No.</u>	<u>Description</u>
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<u>0061.</u>	<u>Temporary Traffic Control:</u> Measurement and payment for temporary traffic control, maintenance and protection including all coordination, materials, labor and equipment, as required, shall be on a Lump Sum (L.S.) basis, complete. Refer to section 202 of the Standard
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Specifications and to Section E, Traffic Control, of these Special Provisions and Additional Technical Specifications.

0234. 4-inch Yellow Plastic Striping: Measurement and payment for 4-inch yellow plastic striping shall be on a per Linear Foot (L.F.) basis and shall include all labor, equipment and materials to replace all striping affected by construction activities with new thermoplastic striping, complete in place. Refer to Section F, Pavement and Surface Restoration, of these Special Provisions and Additional Technical Specifications.

0243. 24-inch White Plastic Striping - Crossing: Measurement and payment for 24-inch white plastic striping - crossing shall be on a per Linear Foot (L.F.) basis and shall include all labor, equipment and materials to replace all striping affected by construction activities with new thermoplastic striping, complete in place. Refer to Section F, Pavement and Surface Restoration, of these Special Provisions and Additional Technical Specifications.

0620. Install New Street Signs: Measurement and payment for street signs will be on a per EACH (EA) basis and will include removal of sign, as needed, and installation of sign, sign base, pole and all appurtenances as per City Standard Drawing 5-18 for Roadside Sign Installation Detail .

0671. Rectangular Rapid Flashing Beacon (RRFB) System Complete in Place: Measurement and payment for RRFB System shall be on a per EACH (EA) basis for each street crossing location, complete in place. This bid item shall include all labor, materials, equipment, utility company fees and City Building Department fees necessary to provide a complete, operational RRFB pedestrian safety crossing system at the 48th Street and Chapman Lane at Main Street pedestrian crossing project locations as identified. All work shall be in accordance with City of Springfield Specifications and Drawings, the project plans, these Special Provisions, and as directed by the ENGINEER.

RRFB equipment shall be ELTEC brand and procured thru Intermountain Traffic being consistent with other recent installations on Main Street. (See attached sole source justification and sole distributor letters)

This RRFB system will include, but not be limited too, the equipment, labor, signs, materials, supplies, and installation of all pedestrian signal poles, side mount fabrication, required junction boxes, foundations and all mounting hardware or appurtenances, electric meter pedestal, trenching and conduit to install a complete, operational, RRFB pedestrian crossing warning system. Common excavation for pole footing shall be considered incidental for bidding purposes. RRFB flashing bar(s), pedestrian push-buttons with signs, control cabinets, electrical panel(s)/meter base pedestal, communication and power wiring from and to the utility pole and system connections shall be considered incidental to this bid item.

END OF SECTION

SPECIAL PROVISIONS

SECTION D – Site Preparation

P21117 - Main Street Pedestrian Crossing Construction – Phase 2

D1. GENERAL

D 1.1 Description

Work includes all demolition and clearing indicated on the plans or required for completion of work specified elsewhere.

D 1.2 Site Conditions

- A. Existing Conditions - CONTRACTOR shall determine extent of work requirements and limitations before proceeding with work.
- B. Protection - Protect existing site improvements, trees and shrubs against cutting, breaking or skinning of roots, skinning and bruising of bark, smothering of roots by stockpiling construction materials, excavated materials, excess foot or vehicular traffic and parking of vehicles within drip line. Provide temporary guards, as necessary, to protect trees and vegetation to be left standing. Repairable damage to trees designated to remain shall be made by a professional tree surgeon approved by the ENGINEER. Cost shall be borne by the CONTRACTOR.
- C. Existing Utilities - Before starting any site work, call One Call for utility locates and to notify utility agencies; disconnect or arrange for disconnection of utilities (if any) affected by required work. Keep all active utilities intact and in continuous operation.

D2. PRODUCTS

D 2.1 Ownership of Existing Materials

All materials, equipment, items and debris involved, occurring or resulting from demolition, clearing and grubbing work shall become the property of the CONTRACTOR at the place of origin except as otherwise indicated.

D 2.2 Wound Paint

Emulsified asphalt formulated for use on damaged plant tissues, as approved by the ENGINEER.

D3. EXECUTION

D 3.1 Workmanship

Perform work in accordance with recognized standard and efficient methods. Operators of equipment shall be conscientious and skilled.

D 3.2 Clearing

- A. Clearing - Remove trees, saplings, snags, stumps, shrubs, brush, vines, grasses, weeds and other vegetative growth within the work area zone except those trees and shrubs noted to remain or as directed by the ENGINEER. Clearing shall be performed in such a manner as to remove all evidence of the presence of vegetative growth from the surface of the project site as required for construction and shall be inclusive of sticks, branches, grasses and weeds, except as otherwise indicated.
- B. Except in areas to be excavated, all holes resulting from the clearing and grubbing operations shall be backfilled and compacted in accordance with the applicable sections of these Specifications.

D 3.3 Preservation and Trimming of Trees, Shrubs and Other Vegetation

The CONTRACTOR shall avoid injury to trees, shrubs, vines, plants, grasses and other vegetation growing outside of the areas to be cleared and grubbed and those trees and shrubs designated to be preserved. Provide protection for roots and limbs over 1-1/2-inch diameter cut during construction operations. Coat the cut faces with emulsified asphalt. Temporarily cover exposed roots with wet burlap to prevent roots from drying out; cover with earth as soon as possible.

D 3.4 Landscaped Areas

When necessary for the completion of the proposed work crosses private property or landscaped areas, the CONTRACTOR shall excavate the topsoil separately and pile it on the opposite side of the trench from the subsoil and shall conduct his work in a manner that will restore original conditions as nearly as practicable. All shrubs or plants shall be balled by experienced workers, carefully handled and watered, and replaced in their original positions without damage. Sod shall be handled in a similar manner. Wherever sod cannot be saved and restored, the ground must be reseeded and cared for until a stand of grass is reestablished. Plants or shrubs killed or destroyed must be paid for by the CONTRACTOR. Unless otherwise specified, any resulting voids shall be thoroughly checked for drainage and backfilled imported material compacted to the density of the adjacent soil. See Section C, Measurement and Payment, and City of Springfield Standard Specifications for lawn and landscaping restoration. All costs incurred by the CONTRACTOR shall be absorbed in the unit prices of his bid unless otherwise specified.

D 3.5 Demolition, Removal and Disposal

Remove from the project site all debris, materials, equipment and items found thereon and materials and debris resulting from the work of demolition except as otherwise indicated. All existing improvements designated on the Plans or specified to be removed including but not limited to structures, pipelines, walls, footings, foundations, slabs, pavements, curbs, fencing and similar structures occurring above, at, or below existing ground surface shall be included in the demolition work.

- A. Removal - All material resulting from demolition and clearing and trimming operations shall be removed from the project site and disposed of in a lawful manner. No burning of debris or any other discarded material will be permitted. Materials placed on property of private property OWNERS shall be by written permission only.
- B. Clean-up - During the time that the work is in progress, the CONTRACTOR shall maintain the site in a neat and orderly condition. All refuse, broken pipe, excess fill material, cribbing and debris shall be removed as soon as practicable. Should the work not be maintained in a satisfactory condition, the OWNER may cause the work to stop until the clean-up of the work has been done to the satisfaction of the ENGINEER. The work will not be considered

complete or the final payment certificate issued until all rubbish, unused material, or equipment shall have been removed and the premises left in a condition satisfactory to the OWNER and the ENGINEER.

END OF SECTION

SPECIAL PROVISIONS

SECTION E – Traffic Control

P21117 - Main Street Pedestrian Crossing Construction – Phase 2

E1. GENERAL

E 1.1 Summary

This item shall include the submission of a Traffic Control Plan (TCP) for work within the public right-of-way during all phases of work. The plan shall show each individual phase of the project with a schedule and map showing placement and description of each temporary traffic control device. The plan shall comply with the current Manual on Uniform Traffic Control Devices (including the Oregon Supplements) and the current Oregon Department of Transportation "Oregon Temporary Traffic Control Handbook." The plan must illustrate changes in lane usage, locations, and types of traffic control devices, and shall encompass advanced warning for all intersecting streets.

E 1.2 Related Specifications

- A. Springfield Standard Construction Specifications
- B. Manual on Uniform Traffic Control Devices (MUTCD) for Streets and Highways as amended by the Oregon Supplement to the MUTCD.
- C. Oregon Temporary Traffic Control Handbook

E 1.3 Submittals

Traffic Control Plan: Traffic Control Plan(s) (TCP) shall be submitted for all projects in the public right-of-way no later than two (2) weeks before work begins and **shall be submitted using the attached City of Springfield Traffic Control Plan submittal form**. If this plan is not received and approved prior to starting, the ENGINEER reserves the right to shut down all work at the CONTRACTOR'S expense (with a written stop work order to follow within 24 hours) until a plan has been approved and implemented. Any sidewalk closures or detours shall also be noted and submitted with the traffic control plan.

E2. PRODUCTS

E 2.1 Equipment

The devices to be furnished and used by the CONTRACTOR and their placement shall conform to the requirements indicated on the plans. Cases, conditions, and details not covered on the plans shall conform to the applicable provisions of Part IV of the Manual on Uniform Traffic Control Devices for Streets and Highways (MUTCD), including the current Oregon Supplements.

E3. EXECUTION

E 3.1 Temporary Traffic Control

- A. No work shall be permitted until the area has been signed as per the approved Traffic Control Plan (TCP). The signing shown on the traffic control plan is the minimum required signing.

All signs, barricades, cones, flaggers, and other such "devices" to warn, safeguard, protect, guide, and inform the public and the workers during the life of the project shall be furnished, constructed, installed, maintained, moved and removed by the CONTRACTOR.

- B. The CONTRACTOR has the obligation to determine how to construct the project and control traffic throughout the area during the construction period with a proper TCP. The CONTRACTOR shall obtain a miscellaneous permit from the Oregon Department of Transportation to perform the work and concurrence with approval of the TCP prior to the commencement of construction activities.
- C. All work areas shall be properly controlled for pedestrian and bicycle safety in addition to standard vehicle traffic and shall comply with the standards stated above. All relevant government agencies shall be notified with relative permits and documentation provided for detours and road work to be performed.
- D. Business access shall be maintained at all times during construction. CONTRACTOR is responsible for coordinating driveway closures and construction activities with individual property owners to ensure the continued viable operations of each business and property during all phases of construction activities.

E 3.2 Signing

- A. Existing Signing: All existing guide signs, warning signs, and regulatory signs shall be maintained at locations readily visible to the traveling public throughout the life of the project, or until new signs replacing them are installed, whichever occurs first.
- B. Construction Signing: All temporary construction signs when not in use shall be either covered or moved so as not to be seen by the traveling public. If construction signing is left in effect when there is no need, the CONTRACTOR has 2 hours after notification to cover or move these signs. If the CONTRACTOR has not taken care of the signs beyond 2 hours of notification, the ENGINEER reserves the right to have City of Springfield employee/s move or cover the signs and bill the CONTRACTOR for time and materials (1 hour minimum). The CONTRACTOR will be required to designate the work area with permanent post mounted signs including Road Work Ahead and End Work signs on all legs approaching the work areas.
- C. Measurement and payment of traffic control devices for temporary business access shall be considered as incidental to the construction of the work and all costs thereof shall be included in the various contract prices in the bid forms.

E 3.3 Day/Time Restrictions

- A. All work shall be conducted between the hours of 7:00 a.m. and 6:00 p.m. on weekdays. Requests for variations in work hours shall be made in writing and shall be submitted to the ENGINEER for approval by the City Council before any after hour work can occur. Work on Saturdays and Sundays must be approved by the ENGINEER.
- B. CONTRACTOR shall comply with ODOT miscellaneous permit requirements for work within ODOT right-of-way (ROW). Daytime lane closures will be allowed providing they allow for a minimum of one thru travel lane at all times and avoid the following conditions.
 - 1. Commute Times: 7:00 AM to 9:00 AM and 4:00 PM to 6:00 PM, Monday through Friday with any lane closures open by 2 PM.

2. Holidays: If a holiday is within the work period activities with ODOT ROW shall be restricted to noon on the day before the holiday or the holiday weekend to noon the day after the holiday or Sunday midnight of the holiday weekend

Example 1: If the holiday falls on a Monday, the holiday weekend would be from noon on Friday - noon on Tuesday

Example 2: If the Holiday falls on a Thursday, the holiday weekend would be from noon on Wednesday - midnight on Sunday

Example: Rhododendron Festival, football games, etc.- contact local ODOT Manager

END OF SECTION

SPECIAL PROVISIONS

SECTION F – Pavement and Surface Restoration

P21117 – Main Street Pedestrian Crossing Construction – Phase 2

F1. General

F 1.1 Scope

This section covers the work necessary to furnish and install asphalt concrete pavement restoration and striping for trenches and roadway paving. All work shall conform to the specifications of this Section, Lane County Standards and the 1994 Edition of the [City of Springfield Standard Specifications, including all revisions at the date of bid opening](#), except as modified herein. In the case of discrepancy the more stringent provisions shall apply.

F 1.2 Reference Standards

- A. Refer to the revised 1994 City of Springfield Standard Construction Specifications, Section 310 Asphalt Concrete Pavement, and Section 407 Resurfacing Trench Areas, with 1998 revisions. The following temporary amendments to the City of Springfield Standard Construction Specifications will also apply.
- B. Refer to the most recent version of the Oregon Department of Transportation (ODOT) Standard Specifications for Construction, Section 00745 – Hot Mixed Asphalt Concrete (HMAC).
- C. Refer to the revised 1994 City of Springfield Standard Construction Specifications, Section 317 Permanent Traffic Control, with 1998 revisions and the Plans for pavement marking, striping and legend requirements.

F 1.3 Submittals

Job mix Certification from Lane County Materials Laboratory.

F 1.4 HMAC Mix Classifications

Where "Class C" mix is identified on the Plans and in the City of Springfield Standard Construction Specifications, it is understood to be Level 2, 1/2-Inch Dense HMAC, as defined in the ODOT Standard Specifications for Construction.

F2. Products

Replace the City of Springfield Standard Construction Specifications, Sub-Section 310.2.00 MATERIALS with the most recent version of the [ODOT Standard Specifications for Construction](#) Sub-Sections 00745.10 through 00745.30 as modified below.

00745.10 Aggregate - In the paragraph that begins "Provide and stockpile...", remove the words "and RAP aggregates".

Add the following paragraph:

Production crushing and stockpiling of aggregate for use in HMAC will be at the sole discretion of the CONTRACTOR in accordance to Section 00165 of the 2008 edition of the Oregon Standard Specifications for Construction.

00745.10(a-1) Separated Sizes – Delete the third sentence from the first paragraph.

00745.10(a-2) Scalping – Delete this subsection.

00745.10(b-2) Separated Sizes – Delete this subsection.

00745.10(b-3) Grading – Delete all but the first sentence of this subsection.

00745.10(c-2) Separated Sizes – Delete this subsection.

00745.10(c-3) Grading – Delete all but the first sentence of this subsection.

00745.10(c-4) Combination of Fine Aggregate for Testing – Delete this subsection.

00745.10(f) Aggregate Production Quality Control – Delete the second sentence.

00745.10(g) Pre-produced Aggregate – Replace this subsection, except for the subsection number and title, with the following:

The material shall meet the requirements of 00745.10.

00745.11(a) Asphalt Cement – Add the following:

Use PG 70-22 grade asphalt for dense graded HMAC, or grade approved by ENGINEER. Use PG 64-22ER for open graded HMAC, or grade approved by ENGINEER.

In addition to the requirements in the ODOT Standard Specifications for Asphalt Materials, the PG 64-22ER grade for HMAC shall meet the following limit when tested according to AASHTO T 301 "Standard Method of Test for Elastic Recovery Test of Asphalt Materials by Means of Ductilometer". The samples will be conditioned per AASHTO T 240 "Standard Method of Test for Effect of Heat and Air on a Moving Film of Asphalt (RTFOT) prior to testing per AASHTO T 301. The specified Temperature for section 3.3 of the AASHTO T 301 procedure shall be 77°F.

% Elastic Recovery – **50** minimum.

00745.11(b) Asphalt Cement Additives - Replace this subsection, except for the subsection number and title, with the following:

Use standard recognized asphalt cement additive products of known value for the intended purpose and approved for use on the basis of laboratory tests. Asphalt cement additives shall have no deleterious effect on the asphalt material and be completely miscible. Do not use silicones as an additive. Add the following asphalt cement additives when required by the JMF (Job Mix Formula):

Anti-stripping asphalt cement additives to prevent stripping or separation of asphalt coatings from aggregates to satisfy the TSR (Tensile Strength Ratio) specified in 00745.13.

Asphalt cement admixtures used to aid in the mixing or use of asphalt mixes or for experimental purposes.

00745.13(a) Contractor Provided JMF – Delete first paragraph and add the following:

A CMDT will prepare, sign and submit a JMF to the ENGINEER for each mixture according to ODOT Contractor Mix Design Guidelines for Asphalt Concrete. The ENGINEER will verify the performance characteristics of all CONTRACTOR provided JMF. Submit material samples for verification testing no later than March 1 of the calendar year of the anticipated use of HMAC mixture. Furnish representative samples of materials to be used in the JMF verification testing as follows:

<u>Materials</u>	<u>Amount</u>
New Coarse Aggregate	100 lbs *
New Fine Aggregate	100 lbs
Reclaimed Asphalt Concrete	45 lbs
Hydrated Lime	5 lbs
Mineral Filler	5 lbs
Asphalt Cement (without antistrip)	3 gal in 1-qt cans
Antistrip Additive	1 qt

*If coarse or fine aggregate is in multiple stockpiles, divide the submittal evenly between stockpiles.

Verification testing will use Gyrotory compaction methods.

00745.13(b) JMF Requirements – Add the following:

A request for an adjustment to the JMF targets may be made to the ENGINEER by the CONTRACTOR's CAT-II. The requested change will be reviewed and documented by the ENGINEER. If acceptable, a revised JMF will be allowed. Clearly document the subplot test for which the adjusted targets are in effect.

Adjustments for gradation shall not exceed the tolerances specified below. Adjustments for AC content shall be within 0.5% of the original JMF, but shall not exceed the requirements of 00745.03. Regardless of these tolerances, the adjusted JMF shall be within the mixture specification control points of 00745.12. If a redesign of the mixture becomes necessary, submit a new JMF according to the requirements of the Specifications.

Aggregate Passing Sieve Size	(%) From JMF
No. 4	+/- 2
No. 8	+/- 1
No. 30	+/- 1
No. 200	+/- 0.5

Field adjustments will not be made unless the change produces material of equal or better quality. Adjustments beyond these limits will require development of a new JMF according to 00745.13(b). The adjusted JMF, plus or minus the allowed tolerances, shall be within the broadband limits specified in 00745.12(b).

00745.13(c) Performance Test – Delete this subsection.

00745.14 Tolerances and Limits - Replace the tolerance list with the following tolerance list:

Gradation Constituent	Dense-Graded HMAC Type				Open-Graded HMAC Type		
	1"	3/4"	1/2"	3/8"	3/4"	1/2"	ATPB
1 1/2"	JMF ± 5%*						
1"	90 - 100%	JMF ± 5%*			99 - 100%		99 - 100%
3/4"	JMF ± 5%	90 - 100%	JMF ± 5%*		85 - 96%	99 - 100%	85 - 95%
1/2"	JMF ± 5%	JMF ± 5%	90 - 100%	JMF ± 5%*	55 - 71%	90 - 98%	35 - 68%
3/8"***	-	-	-	90 - 100%	-	-	-
No. 4	JMF ± 5%	JMF ± 5%	JMF ± 5%	JMF ± 5%	JMF ± 5%	JMF ± 5%	JMF ± 5%
No. 8	JMF ± 4%	JMF ± 4%	JMF ± 4%	JMF ± 4%	JMF ± 4%	JMF ± 4%	JMF ± 4%

No. 16**	-	-	-	-	-	-	-
No. 30	JMF ± 4%	-					
No. 50**	-	-	-	-	-	-	-
No. 100**	-	-	-	-	-	-	-
No. 200	JMF ± 2.0%						

* Maximum not to exceed 100%

** Report percent passing sieve when no tolerance is listed

In the "Constituent of Mixture" table; Moisture content at time of discharge test, delete "WAQTC TM6" and replace with "AASHTO T329; or AASHTO T255, Microwave method".

00745.16 HMAC Production QC/QA – Delete subsections (a) and (b) in their entirety and add the following:

Quality control sampling and testing by the CONTRACTOR, as defined by the Standard Specifications, is suggested but not required. The CONTRACTOR is advised to perform sufficient testing to insure compliance to the material requirements.

00745.16(c) Quality Assurance and Acceptance – Replace this subsection, except for the subsection number and title, with the following:

The ENGINEER, according to Section 00165.40 and the following, will perform acceptance sampling and testing of HMAC:

(1) Random Sampling – Random sampling of HMAC shall be performed by Lane County according to the following:

(a) Grade Samples – A minimum of one grade sample from each lot or subplot after placing and before rolling. Samples will not be taken within 1 foot of the edge of the panel. Samples will be obtained according to AASHTO T168.

(b) Plant Samples – A minimum of one sample from each lot or subplot from the discharge of the paving plant mixer and before placing into a storage silo or hopper when:

- The nominal compacted thickness as shown on the typical section of the plans, for an entire pavement panel will be less than 1 1/2 inches.
- The paving panel being placed is less than 8 feet wide.
- Paving miscellaneous areas, such as driveways, approaches, guardrail flares, and areas of restricted width or limited length.
- Paving temporary surfacing or leveling courses.
- Paving open-graded mixtures.

(c) Moisture Samples – Moisture samples will be taken from the discharge of the paving plant mixer a minimum once each day, or as directed.

(d) Partial Sublots – Each day, at the end of the production shift, regardless of the project size, the quantity exceeding the 750-ton subplot increment by 250 ton, or less, shall be represented by the previous 750-ton subplot. If the quantity exceeds the 750-ton subplot increment by more than 250 ton, the quantity shall be considered an independent subplot.

(2) Testing – HMAC testing shall be performed by the ENGINEER according to the following:

(a) Asphalt Cement Content – Test according to “Asphalt Content by Ignition Method, Lane County Procedure” (a modified AASHTO T308). The test procedure is available from the Project Manager.

(b) Aggregate Gradation – Test according to AASHTO T27 test method.

(c) Moisture Content – Test according to AASHTO T255 test method, Microwave Method.

(d) Compaction – Acceptance testing for compaction will be according to Section 00745.49. For any failing subplot of pavement, the CONTRACTOR may request one new backup compaction test on the same day. New nuclear gauge tests will be obtained at new randomly selected sites. The average of these five new nuclear density tests will constitute the backup in-place density of the subplot. The higher of the original and backup test results will prevail.

The ENGINEER may test any area that appears defective in compaction and require further compaction or corrective action on any area that does not meet specifications.

(e) Backup Testing – If the gradation test result of the sieve analysis varies from the JMF by 1.5 times or more from the tolerance limits specified in 00745.14, a backup sample from the random grade sample will be tested. The test result, which yields the highest CPF for that subplot, will be used. If the original and backup test results yield the same CPF, the original test results will be used.

(f) Minimum Pay Factor for Each Constituent – Stop production when the pay factor for any constituent with a weighting factor greater than 1 falls below 0.75. Resume production when the ENGINEER accepts a plan for correction.

00745.17 Small Quantity Acceptance – Replace this subsection, except for the subsection number and title, with the following:

When the quantity of HMAC on a Project is less than 1,750 tons or less than three test results are obtained, the ENGINEER may accept the HMAC according to Section 00745.16(c) of these Special Provisions. The test results will be evaluated in accordance to 00745.95(a) of these Special Provisions.

00745.17(b) Outside Specifications Limits – Replace the first sentence with the following:
If a subplot sample test result for any constituent is 1.5 times or more outside the specification limit, the ENGINEER will have the backup sample tested.

00745.17(b-2) Backup Out of Specification – Replace this subsection, except for the subsection number and title, with the following:

If the backup sample test results are out of specification, an adjustment will be calculated according to 00745.95(a-1). The test results that produce the lowest Cumulative Weighted Deviation will be used in the price adjustment calculation.

00745.17(b-3) In Place Samples – Delete this subsection:

00745.24(a) Steel-Wheeled Rollers - Replace this subsection with the following subsection:

(a) Steel-Wheeled Rollers - Provide steel-wheeled rollers with a minimum gross static weight as follows:

	Level 1 and Level 2	Level 3	Level 4
Breakdown and Intermediate	8 ton	10 ton	12 ton
Finish	6 ton	8 ton	10 ton

F3. Execution

Replace the City of Springfield Standard Construction Specifications, Sub-Section 310.3.00 CONSTRUCTION with the ODOT Standard Specifications for Construction Sub-Sections 00745.40 through 00745.93 as modified below.

00745.40 Season and Temperature Limitations In the table, for Surface Temperature of Dense Graded Mixes 2 inches to 2 1/2 inches, replace "50 °F" with 40 °F".

00745.46 Control of Line and Grade - Add the following paragraphs to the end of this subsection:

The CONTRACTOR shall establish references at reasonable intervals for line and grade control of placement operations for the following:

- Before placing each leveling lift.
- Before placing the top base course for new construction.

If grade controls are established, line and grade for the top base course of new construction and top leveling lift shall be within 1/2 inch of existing line and grade.

00745.48(c) Placing – Add the following:

The ENGINEER will establish leveling locations and paving needs.

Paving equipment used shall be sized appropriately for the size roads listed in the contract. Equipment that is either undersize or oversize for the intended work, which will not produce satisfactory workmanship, will be replaced with appropriately sized equipment.

Change the reference in the last paragraph from 00745.16(b-1) to 00745.13(b) of these Special Provisions.

00745.49 Compaction, QC – Add the following:

The QC program as described in this section of the Standard Specifications will not be used. The ENGINEER will perform acceptance compaction testing using procedures as modified or added in these Special Provisions. The CONTRACTOR is responsible to perform sufficient compaction testing to insure minimum compaction requirements have been attained.

00745.49(b) Normal Pavement (Nominal Thickness 2 inch or Greater) – Replace the subsection heading with the following:

00745.49(b) Normal Pavement (Nominal Thickness 1 1/2 inch or Greater)

00745.49(b-1) General - In the paragraph that begins "Compliance with the density...", replace the sentence that begins "Use the MAMD method..." with the following sentence:

Use the MAMD method of compaction measurement.

Replace the paragraph that begins "For Level 3 and Level 4..." with the following two paragraphs:

For Level 2, Level 3, and Level 4 mixes, construct a control strip at the beginning of work on each JMF on the project according to ODOT TM306. The purpose of the control strip is to determine the maximum density that can be achieved for the JMF, paving conditions, and equipment on the project. Additional control strips are necessary when there is a change in compaction equipment or when JMF targets are adjusted according to 00745.16(b-1-a). The ENGINEER may waive the control strip for irregular areas or areas too small to establish a reasonable roller pattern.

Stop paving if three consecutive control strips fail to achieve the specified density. Take all actions necessary to resolve compaction problems. Do not resume paving until allowed by the ENGINEER.

Add the following to the third paragraph:

Pneumatic tired roller will be required on Level 2 HMAC, unless waived by the ENGINEER.

00745.49(b-2) Random Testing – Delete reference to “QC” in the first sentence.

00745.49(b-2-a) Testing – Add the following:

Sanding of test locations will not be required.

00745.49(b-2-b) Core Correlations of Nuclear Gauge Readings – Replace this subsection, except for the subsection number and title, with the following:

Core correlation of the nuclear gauge readings is not required. If core correlations are requested, and approved, determine the core correlation factors according to WAQTC TM8 and ODOT TM327. Cut the required cores and patch the core holes with dense graded HMAC.

The party requesting core correlations will pay the costs of coring and lab testing of cores. The costs of nuclear gauge testing performed by each party will be paid by each party.

00745.49(b-3) Moving Average Maximum Density (MAMD) Method - Replace the MAMD list with the following list:

Course of Construction	HMAC
First HMAC lift less than 3 inches placed on aggregate base	91.0 *
All other	92.0

* If any part of the width of a lift at a station requires 91.0%, then the entire width of that lift at that station shall be 91.0%

Delete the last paragraph of this subsection.

00745.49(b-4) Control Strip Method - Delete this subsection.

00745.49(b-5) Test Results – Renumber this subsection to b-4, delete the sentence and replace with the following:

The ENGINEER will provide density test results to the CONTRACTOR by the middle of the following work shift.

00745.49(c) Thin Pavement – Replace this subsection, except for the subsection number and title, with the following:

Compaction to a specified density will not be required for leveling, patches, or where the nominal compacted thickness of a course of dense graded mixtures will be less than 1 ½ inches. Perform breakdown and intermediate rolling until the entire surface has been compacted by at least four coverages of the roller(s). Perform additional coverages, as directed, to obtain finish rolling of the HMAC. In areas where pre-leveling is greater than 1 ½ inches, the HMAC shall be compacted to a minimum of 91.0 of the JMF’s most recent Maximum Density result.

00745.70 Pavement Smoothness - Replace this subsection with the following subsection:

00745.70 Pavement Smoothness - Construct the pavement wearing surface of travel lanes to a profile that does not deviate from longitudinal and transverse smoothness more than the specified limits of 00745.73.

Perform smoothness testing under the supervision of the ENGINEER with equipment furnished and operated by the CONTRACTOR at the CONTRACTOR's expense. Complete all required smoothness testing no later than seven calendar days following final completion of all travel lane paving on the Project. The CONTRACTOR accepts the risk that the smoothness may be affected by exposure to traffic between the date the travel lanes are paved and the date the smoothness testing is completed. If the CONTRACTOR elects to perform smoothness measurements on a day other than the day the pavement is placed, additional traffic control required for smoothness measurement, and not required for other work, will be at the CONTRACTOR's expense.

Add the following subsection:

00745.72 Smoothness Testing Equipment - Furnish all equipment and supplies for determining smoothness.

(a) **Straightedge** - Provide one 12 foot straightedge.

(b) **Rolling Straightedge** – Provide one 12 foot rolling straightedge capable of measuring, on an exaggerated scale, deviations in the paved surface, at the center of the scale, to accuracy of 0.002 foot or less. If requested by the ENGINEER, the CONTRACTOR shall demonstrate the accuracy of the measuring device by setting the equipment up on a flat surface and passing the sensing mechanism over an item of known height. In all cases, the equipment shall be subject to acceptance by the ENGINEER.

Add the following subsection:

00745.73 Smoothness Testing and Surface Tolerances - Test according to the following:

(a) **General** - Test the base and wearing courses with a 12 foot straightedge and a 12 foot rolling straightedge as directed.

(b) **Base Course Surface Test:**

(1) **Transverse** - Test with the 12 foot straightedge perpendicular to the centerline, as directed. The pavement surface shall not vary by more than 0.02 foot.

(2) **Longitudinal** - Test with the 12 foot rolling straightedge parallel to the centerline, as directed. The pavement surface shall not vary by more than 0.02 foot.

(c) **Wearing Course Surface Test:**

(1) **Transverse** - Test with the 12 foot straightedge perpendicular to the centerline, as directed. The pavement surface shall not vary by more than 0.02 foot.

(2) **Longitudinal** – Test with the 12 foot rolling straightedge over the full width of travel lanes for the entire length of the project, or as directed by the ENGINEER. The pavement surface shall not vary by more than 0.015 foot.

(3) **Transverse Joints** - Test with the 12 foot straightedge parallel to the centerline, as directed. The pavement surface shall not vary by more than 0.02 foot.

(d) Utility Appurtenances - If the CONTRACTOR is required to construct or adjust utility appurtenances, such as manhole covers and valve boxes, the pavement surface shall not vary by more than 0.02 foot.

(e) Shoulders and Paved Medians - Test the base and wearing course with the 12 foot straightedge parallel to and perpendicular to the centerline for shoulders and paved medians. The pavement surface shall not vary by more than 0.02 foot.

00745.75 Correction of Pavement Roughness - Replace this subsection with the following subsection:

00745.75 Correction of Pavement Roughness - Should testing described in 00745.73 show the pavement does not conform to the prescribed limits of deviation, the following shall apply:

(a) General - The CONTRACTOR, under the supervision of the ENGINEER, is responsible for locating areas that require corrective work.

(b) Base Course - If the requirements of 00745.73(b) are not met, correct according to one of the following and retest.

(1) Cold Plane Removal - Profile with equipment meeting the requirements of Section 00620.20 to a maximum depth of 0.03 foot.

(2) Grinder - Profile with abrasive grinder(s), equipped with a cutting head comprised of multiple diamond blades to a maximum depth of 0.03 foot.

(c) Wearing Course - After the CONTRACTOR has located and staked all individual deviations exceeding 0.02 foot, the ENGINEER and the CONTRACTOR shall meet at a mutually agreed upon time and drive the Project together. Each deviation will be evaluated during the drivethrough to determine what corrective work will be required. Disagreements will be resolved by the ENGINEER.

Correct all individual deviations identified for corrective work during the drive-through and any transverse joint that exceeds the requirements of 00745.73(c-3) by one of the methods listed below to the specified limits.

(1) Remove and Replace - Remove and replace the wearing surface lift. Removal and replacement is required when in the opinion of the ENGINEER a durable long-term repair of the defect cannot be accomplished by conventional means.

(2) Grind - Profile with abrasive grinder(s) equipped with a cutting head comprised of multiple diamond blades to a maximum depth of 0.3 inch and apply an emulsion fog seal as directed.

Under the observation of the ENGINEER, retest each location requiring corrective work according to 00745.73 with a 12 foot rolling straightedge to verify that the deviation has been corrected to within the 0.02 foot tolerance. Perform all corrective work and surface tolerance testing at the CONTRACTOR's expense, including traffic control.

(d) Utility Appurtenances - If the requirements of 00745.73(d) are not met, the CONTRACTOR shall perform saw-cutting, removal and readjustment of the utility appurtenance(s) to the required elevation(s) and/or perform other corrective measures to the satisfaction of the ENGINEER.

(e) Time Limit - Complete correction of all surface roughness within 14 calendar days following notification, unless otherwise directed.

00745.80 Measurement – Delete this section and add the following:

The accepted quantities of HMAC will be measured by the ton according to Section 00190. No separate measure will be made for the asphalt cement used in the asphalt concrete mixture. No deduction will be made for lime or any other additive used in the mixture.

The quantities of HMAC shown in the Schedule of Items were computed on the basis of aggregates having a Specific Gravity of 2.65. The provisions of 00140.20 and 00195.20 will apply.

00745.90 Payment - Add the following paragraph to the end of this subsection:

No separate or additional payment will be made for asphalt cement used in the mixture.

00745.93 Other Items – Add to the fifth bulleted item:

No payment will be made for anti-stripping additives required to supplement the JMF to attain minimum mixture performance characteristics. If anti-stripping additives are required by the contract, payment will be at the unit bid price included in the schedule of items.

A. A PRE-PAVING MEETING SHALL BE REQUIRED 48 HOURS PRIOR TO PAVING.

B. Trip tickets shall normally be given to the ENGINEER by the end of the day delivery is made, but in no event shall they be given to the ENGINEER later than 12 noon the following calendar day (Saturday, Sunday, and legal holidays excluded). Trip tickets will be considered as valid only when received by the ENGINEER in accordance with this special provision. All other requirements of the above referenced sub-sections shall apply.

C. GEOTEXTILE INSTALLATION – In the event that the City's wet weather construction standard is invoked on this project, refer to Standard Construction Specification 301.1.01 General, the use of geotextile fabric and an additional eight (8) inches of rock substructure will be required. Where specified, geotextile shall be woven and conform to Standard Construction Specification for Subgrade Geotextile. CONTRACTOR shall comply with Standard Construction Specification 308, Geotextile Installation. Payment shall be incidental to the pavement Bid Items.

F4. Striping

All striping shall be completed with using City approved thermoplastic material. CONTRACTOR shall replace all striping removed or damaged through construction activities. See sections 00850 through 00867 of the most recent version of ODOT's Oregon Standard Specifications for Construction for more information.

Use the following Materials. Materials for other uses not specified in this paragraph shall be from the QPL.

- A. Pedestrian Crossings: Preformed Thermoplastic Type B, Pre-Mark Vizigrip (Non-Slip)", 125 mil, by Ennis-Flint, or approved equivalent.
- B. Skip Lines and Longitudinal Lines: Method B Thermoplastic, "Permaline" with SWARCO beads 3130, by Ennis-Flint, or approved equivalent.

Note: It is the CONTRACTOR's responsibility to verify all existing striping locations prior to construction.

END OF SECTION

SPECIAL PROVISIONS

SECTION G – Rapid Rectangular Flashing Beacon (RRFB) Installation

P21117 - Main Street Pedestrian Crossing Construction – Phase 2

G1. GENERAL

G 1.1 Scope

This RRFB system will include, but not be limited too, the equipment, labor, signs, materials, supplies, and installation of all pedestrian signal poles, side mount fabrication, required junction boxes, foundations and all mounting hardware or appurtenances, electric meter pedestal, trenching and conduit to install a complete, operational, RRFB pedestrian crossing warning system. Common excavation for pole footing shall be considered incidental for bidding purposes. RRFB flashing bar(s), pedestrian push-buttons with signs, control cabinets, electrical panel(s)/meter base pedestal, communication and power wiring from and to the utility pole and system connections shall be considered incidental to bid item 0671.

G 1.2 Equipment

All RRFB equipment supplied by the City of Springfield shall be in accordance with the most recent version of the ODOT Standard Specifications for Construction and all applicable ODOT standard drawings and any updated revisions to these documents.

All equipment shall be installed in compliance with the manufacturer's instructions or at the direction of the ENGINEER. Prior to mounting the RRFB device and signs, the foundation and pole shall be installed, the ENGINEER shall be notified, and the ENGINEER shall direct the CONTRACTOR with regard to mounting positions and direction of the RRFB flasher unit and accompanying signs.

G 1.2 Pole Foundations

All RRFB pole foundations shall comply with ODOT Standard Drawing TM457 (Pedestrian Pole) and construction plans. All materials shall conform to ODOT standards for Traffic Signal Materials (Section 02925) and Electrical Systems (Section 00960). Each delivered batch of concrete that is used in the construction of the project shall have three (3) concrete cylinders retained for testing by the Lane County Testing Facility. All foundations shall be located by the ENGINEER prior to CONTRACTOR excavation and construction. Use care to prevent undermining existing sidewalks and curbs. Excavation for foundations shall be considered as part of the RRFB pole assembly bid items. Common excavation for this work shall be considered incidental for bidding purposes.

END OF SECTION

Chapman & Main Pedestrian Crossing

This project will consist of constructing a RRFB pedestrian crossing at Chapman Lane & Main Street.
Location 2 of 2

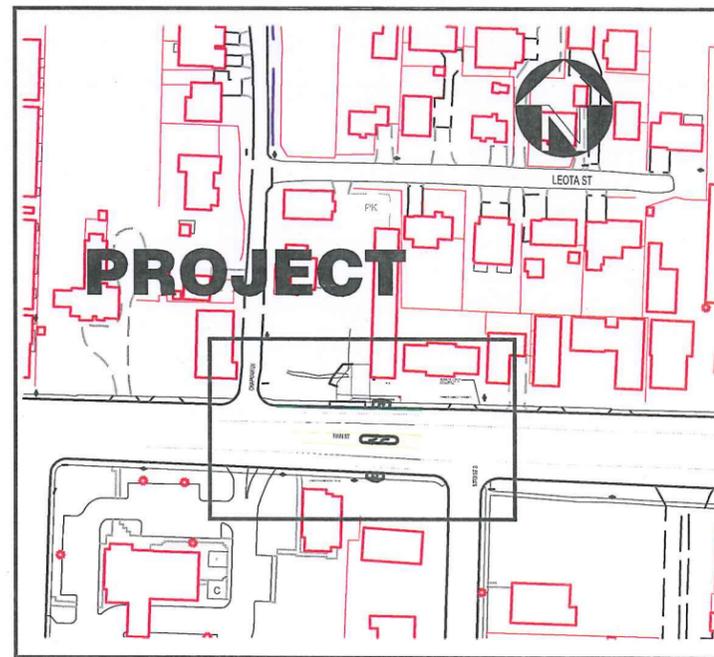
LEGEND

RIGHT OF WAY (ROW) 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	

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(D)N(G)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 INSIDE DIAMETER	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 CONSTRUCTION	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 OUTSIDE DIAMETER	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 DRIVEWAY	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 LINE	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 FIREHYDRANT		
FIN GR FINISHED GRADE		
FL FLOW LINE		
FLG FLANGE(D)		

VICINITY MAP



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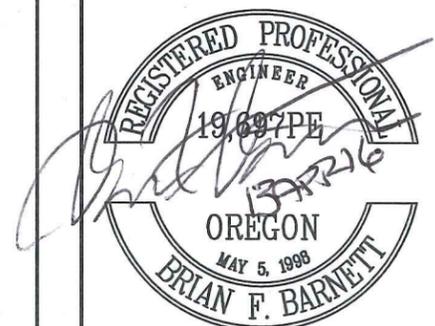
NOTE:

UTILITY LOCATIONS ARE APPROXIMATE
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CALL FOR UTILITY LOCATES
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THE CONTRACTOR SHALL BE RESPONSIBLE
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BEGINNING OF CONSTRUCTION.
THESE PLANS MAY NOT SHOW ALL UTILITIES OR
THE CORRECT LOCATIONS.

PROJECT NO: P21117
CHAPMAN LN. PED CROSSING

City of Springfield
PUBLIC WORKS / ENGINEERING
225 HILL STREET, SPRINGFIELD, OR 97477
PHONE (503) 325-3133 FAX (503) 325-1021
INTERNET: www.ci.springfield.or.us



EXPIRES 12-31-17

SHEET

1

GENERAL CONSTRUCTION NOTES:

GENERAL CONSTRUCTION NOTES

- A. ALL MATERIALS AND WORKMANSHIP WITHIN THE PUBLIC RIGHT-OF-WAY OR PUBLIC EASEMENTS SHALL MEET CURRENT CITY OF SPRINGFIELD DEPARTMENT OF PUBLIC WORKS "STANDARD CONSTRUCTION SPECIFICATIONS IN ADDITION TO THESE PLANS.
- B. 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.
- C. 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.
- D. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION WITH UTILITY COMPANIES ON THE TIMING OF INSTALLATION OF THEIR FACILITIES.
- E. SPRINGFIELD CODE 10.2.1 REQUIRES NOTIFICATION OF OPEN TRENCHING FOR THE PROJECT TO ALLOW POSSIBLE COMMUNICATION CABLE INSTALLATION.
- F. 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.
- G. 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.
- H. 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.
- I. THE SEWER GRADE SHALL BE PER THE PLANS SPECIFICATIONS AND WITH THE MINIMUM COVER AS SHOWN ON THE PLANS
- J. 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.
- K. CONTRACTOR TO SCHEDULE A PRE-PAVING CONFERENCE 24 HOURS PRIOR TO PAVING. CONTACT THE CONSTRUCTION INSPECTOR.
- L. ALL JOINTS BETWEEN EXISTING and NEW ASPHALT PAVING SHALL BE SEALED WITH POLYMERIZED ASPHALT AND SANDED TO PREVENT PICK UP.
- M. COMPACTION REQUIREMENTS:
- | LAYER | RATE | TEST |
|------------------------------|------|------|
| SUBGRADE | 95% | T99 |
| CRUSHED ROCK | 95% | T180 |
| ASPHALT (LOCAL) | 90% | RICE |
| ASPHALT (COLLECTOR/ARTERIAL) | 92% | RICE |
- N. CONCRETE COMPRESSIVE STRENGTH REQUIREMENTS (PSI):
- | CONCRETE USE | FIELD | LABORATORY |
|--------------------|-------|------------|
| SIDEWALK/ADA RAMPS | 3000 | 3450 |
| CURBS/GUTTERS | 3500 | 4025 |
| DRIVEWAYS | 3500 | 4025 |
| PAVEMENT | 4000 | 4600 |
- O. 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.
- P. 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.
- Q. 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.
- R. EROSION CONTROL MEASURES SHALL BE IN PLACE PRIOR TO THE START OF CONSTRUCTION. SEE EROSION CONTROL PLAN.
- S. 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.
- T. 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.
- U. 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.
- V. REQUESTS BY THE CONTRACTOR FOR CHANGES SHALL BE APPROVED BY THE ENGINEER AND THE CITY IN WRITING PRIOR TO IMPLEMENTATION.
- W. CONTRACTOR SHALL SUBMIT EVIDENCE OF INSURANCE IN ACCORDANCE WITH THE STANDARD SPECIFICATION TO THE CITY FOR APPROVAL PRIOR TO BEGINNING WORK.
- X. 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
- Y. THE CONTRACTOR SHALL VERIFY EACH EXISTING SANITARY AND STORM CONNECTION.

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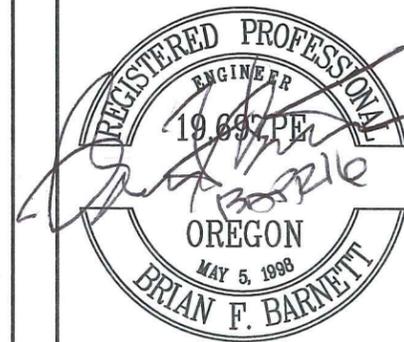
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City of Springfield
PUBLIC WORKS / ENGINEERING
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EXPIRES 12-31-17

SHEET

2

CHAPMAN LN

5292



ALL SAW CUT MEASUREMENTS ARE APPROXIMATE AND ARE SUBJECT TO FINAL APPROVAL BY THE CITY INSPECTOR AND CITY PROJECT MANAGER

INSTALL W11-2 36"x36" WITH W16-9P 24"x10" SEE SHEET D6.

CONTACT ENGINEER FOR HEIGHT.

SAWCUT REMOVE A.C.

SAWCUT (FACE CUT AT GUTTER) REMOVE EX. WALK & CURB TO NEAREST PANEL JOINT

--- SAWCUT
REMOVAL AREA

MAIN ST

ISLAND (SEE SHEET P1)

REMOVE EX. WALK & CURB TO NEAREST PANEL JOINT
SAWCUT (FACE CUT AT GUTTER)

53RD STS

CONTACT ENGINEER FOR HEIGHT.

DEMOLITION PLAN



No.	Revisor/Issue	Date
DRAWN: RBK		

NOTE:

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DO NOT SCALE OR LOCATE UTILITY LINES OR MAINS FROM THESE DRAWINGS
CALL FOR UTILITY LOCATES 811 or (1-800-332-2344)

THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING UTILITY LOCATIONS PRIOR TO BEGINNING OF CONSTRUCTION. THESE PLANS MAY NOT SHOW ALL UTILITIES OR THE CORRECT LOCATIONS.

PROJECT NO: P21117
CHAPMAN LN. PED CROSSING

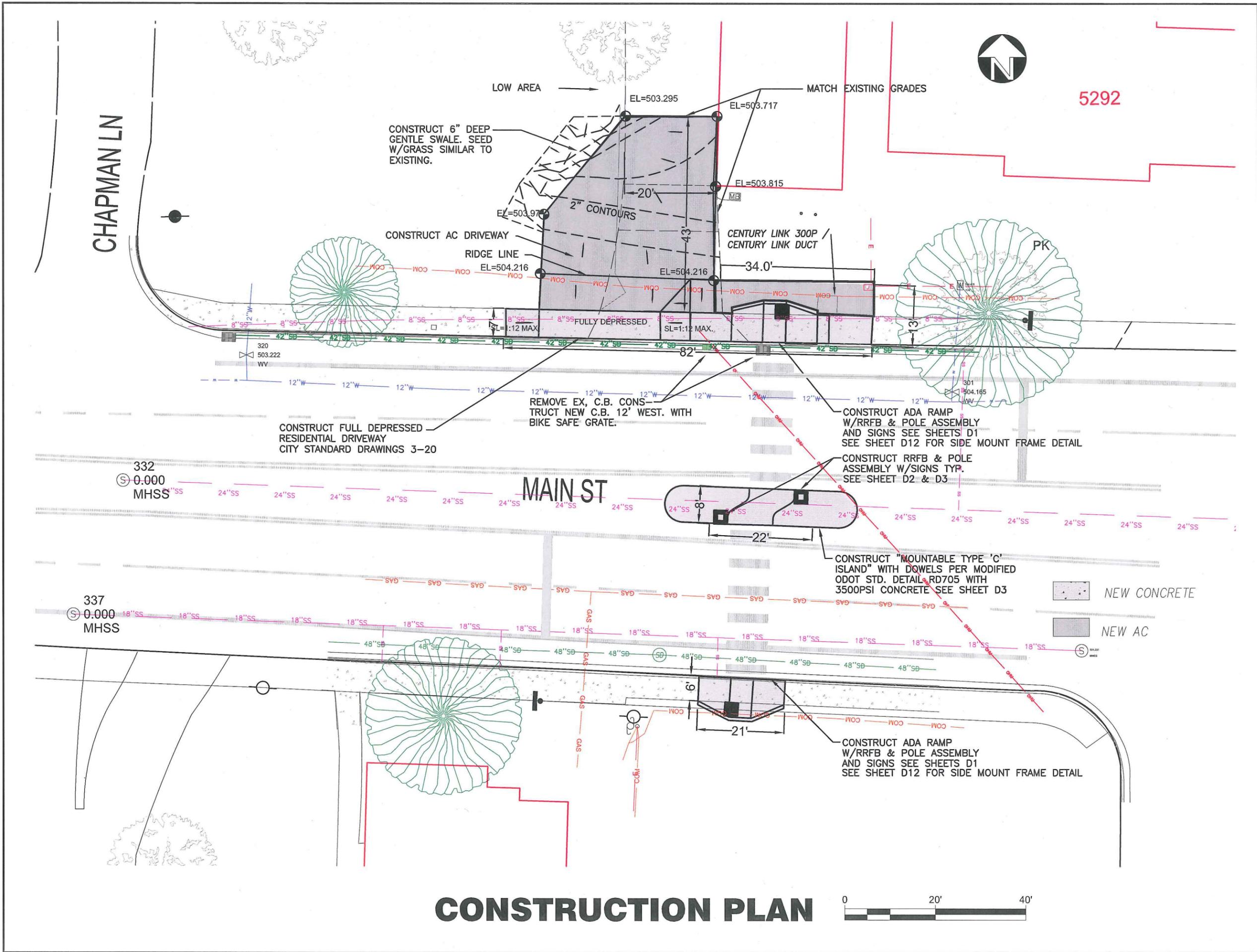
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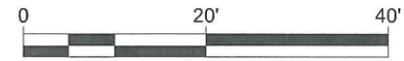
EXPIRATION DATE: 12/31/16

SHEET

DM1



CONSTRUCTION PLAN

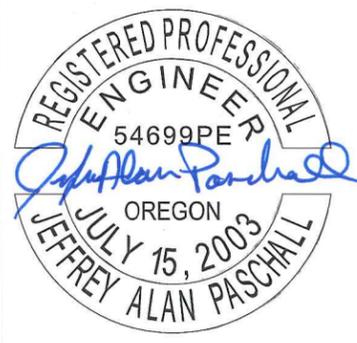


No.	Revision/Issue	Date
DRAWN: RBK		

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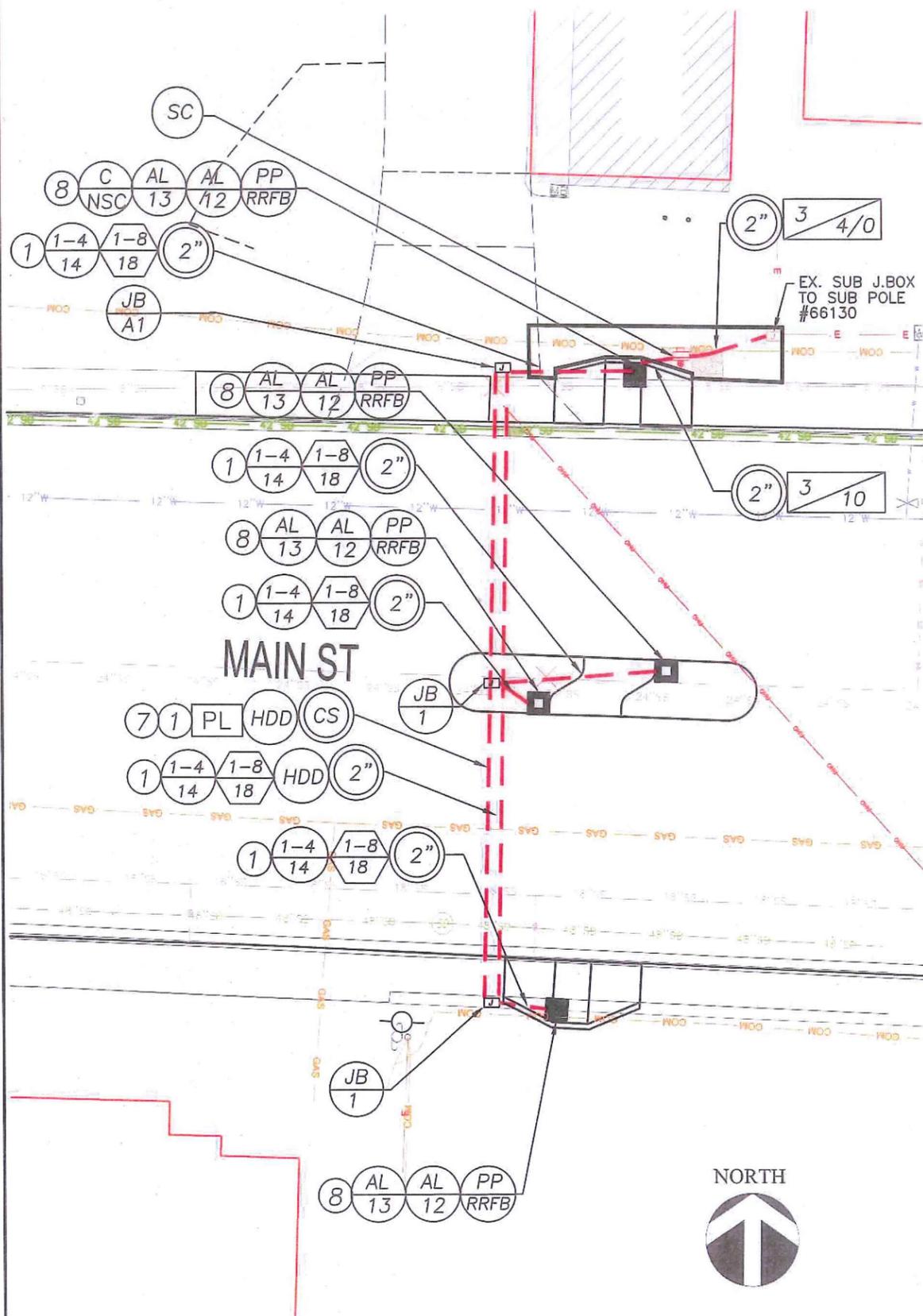
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EXPIRATION DATE: 12/31/16

SHEET
P1

Rectangular Rapid Flashing Beacon – Legend



- Install pedestrian signal pedestal on frangible base with Rectangular Rapid Flashing Beacon (RRFB), and APS pedestrian push button and sign. (See RRFB Detail sheet 1, 2 & Special Provisions)
- Install RRFB Network System Controller (NSC) (See Special Provisions)
- Install (N-Number) No. (G=AWG wire size) type THWN conductors with green insulated ground
- Install (X=number of cables) cables with (N=number) AWG No. (G=AWG wire size) type 18AWG BELDON 27601A.
- Install (S=Size) inch schedule 40 PVC electrical conduit.
- Install poly pull line (225 ft./lb. min. strength).
- Install aluminum, 36" x 36" W11-2 "PEDESTRIAN CROSSING" warning sign with Fluorescent Yellow, Diamond Grade sheeting. (See Special Provisions).
- Install aluminum, 30" x 18" W16-7P "ARROW" warning sign with Fluorescent Yellow, Diamond Grade sheeting. (See Special Provisions).
- Install 11" x 18" x 12" precast polymer concrete junction box. With Concrete Apron See SHEET DETAIL D9.
- Install 11" x 18" x 12" precast polymer concrete junction box. See SHEET DETAIL D9.
- Install conduit by Horizontal Directional Drilling (Open Trench not allowed.)
- Install 2" conduit spare (cap ends).
- Install 6" x 8" x 12" service cabinet, 120 volt 60 amp Main, with 15 amp circuit breaker for RRFB. Mounted on 4"Ø steel tube (See SHEET D11.)
- Install (X=number of cables) control cables with (N=number) AWG No. (G=AWG wire size) control cable.
- Install Terminal Cabinet See Sheet D10.

CONSTRUCTION NOTES:

- 1 Install and/or maintain a No. 16 AWG THWN stranded copper wire with a orange base and blue stripe in ALL conduits as a locate wire.
- 7 Install (1) Spare 2" Conduit Crossing for future use.
- 8 Install Flashing LED and Signs. See Sheets D1 and D2.

Note: All utilities to be potholed by contractor prior to boring to verify elevations.

ELECTRICAL PLAN 0 20' 40'

NO.	REV. DATE / ISSUE	DATE
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Traffic Section Approved

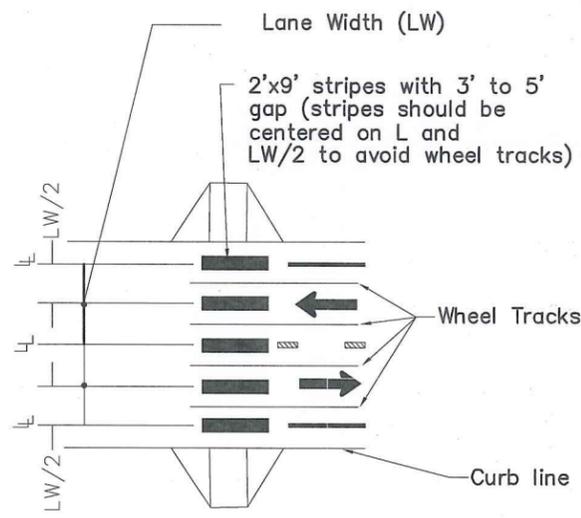
 TRS 18882

REGISTERED PROFESSIONAL ENGINEER
 19,697PE

 OREGON
 MAY 5, 1998
 BRIAN F. BARNETT

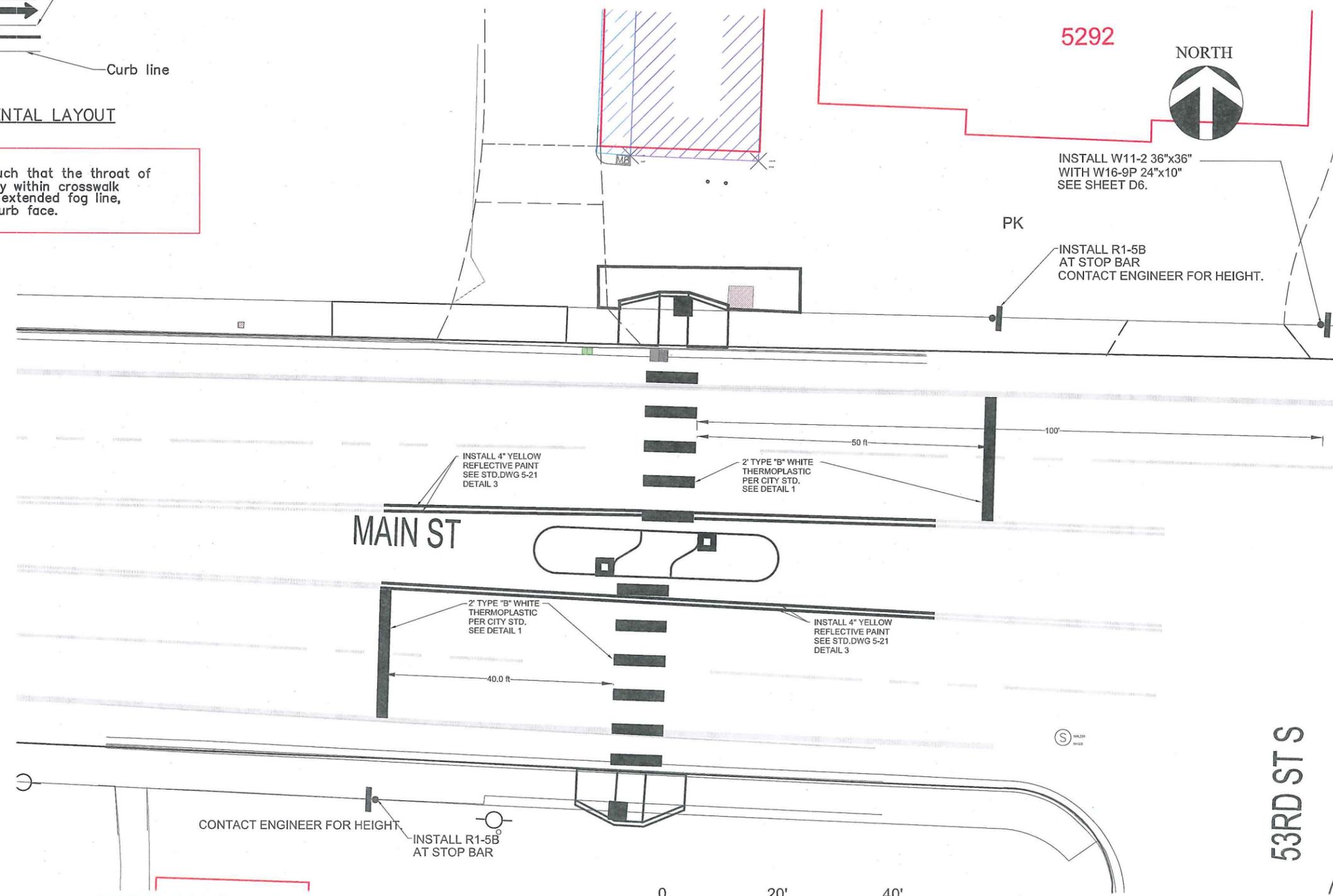
EXPIRES 12-31-17

NOTE:
VERIFY SIGN LOCATIONS WITH
ENGINEER PRIOR TO CONSTRUCTION.

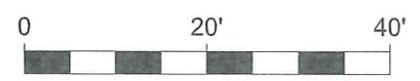


STAGGERED CONTINENTAL LAYOUT

Note:
Install crosswalk bars such that the throat of the ADA ramp, is entirely within crosswalk markings or 5' back of extended fog line, edge of pavement, or curb face.



STRIPING PLAN



No.	Revision/Issue	Date
DRAWN: RBK		

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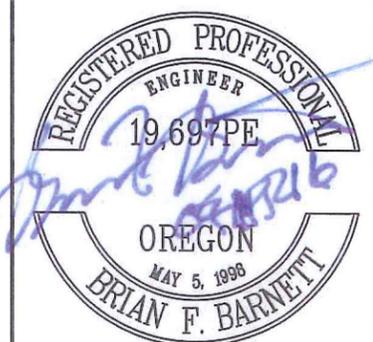
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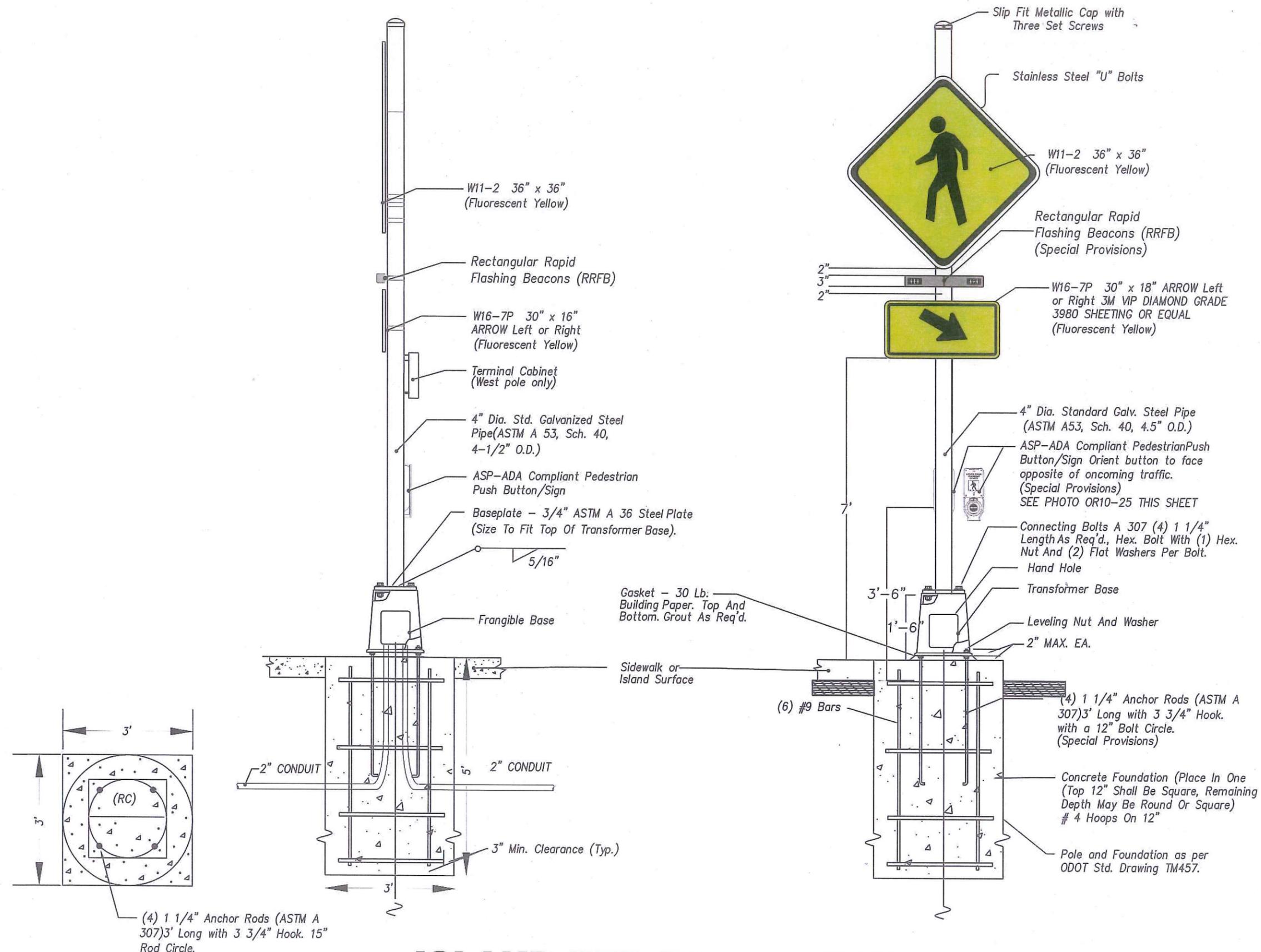
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Traffic Section Approved
 TRS 1887 84



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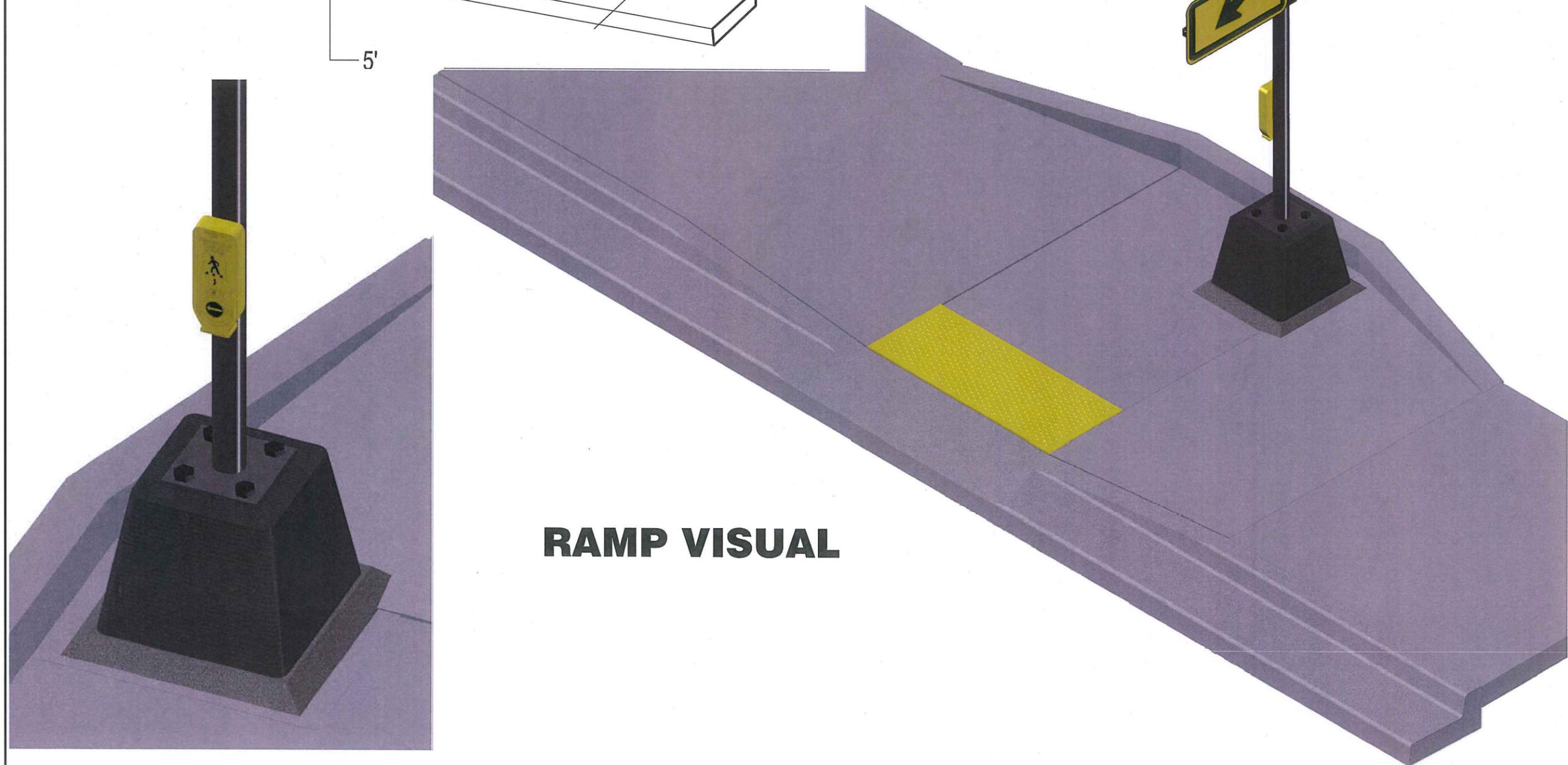
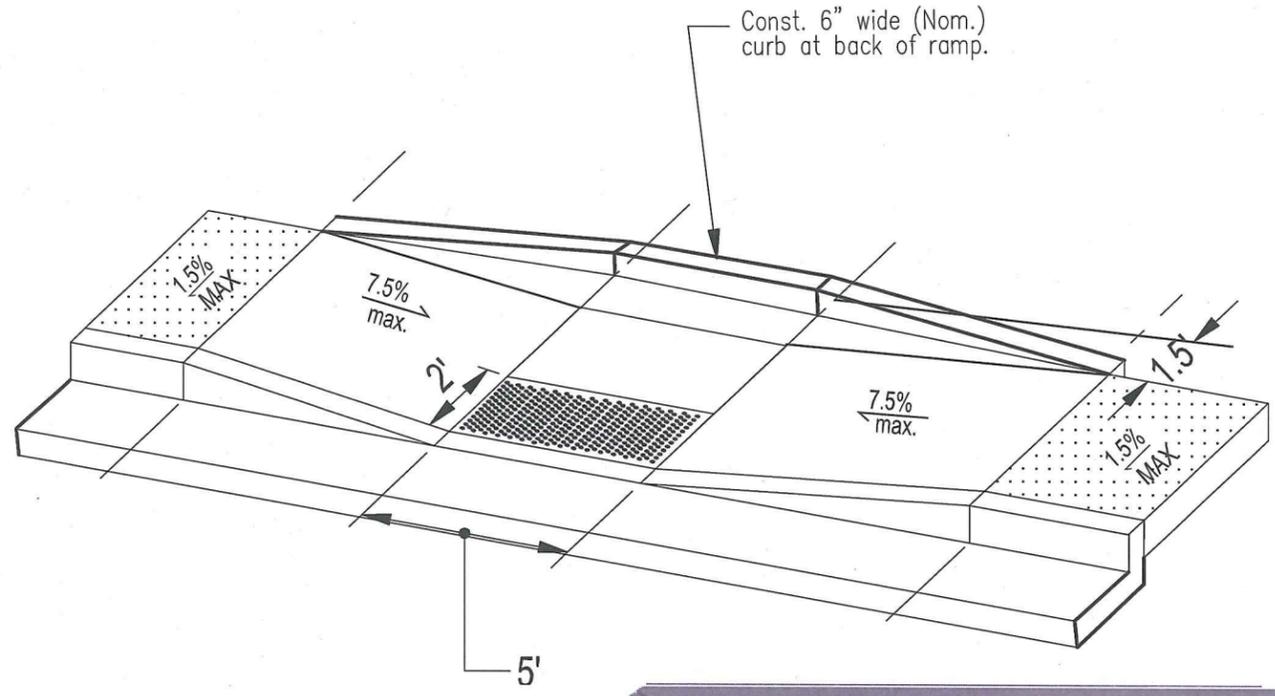
SHEET
D2



ISLAND PED POLE DETAIL

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DRAWN: RBK		

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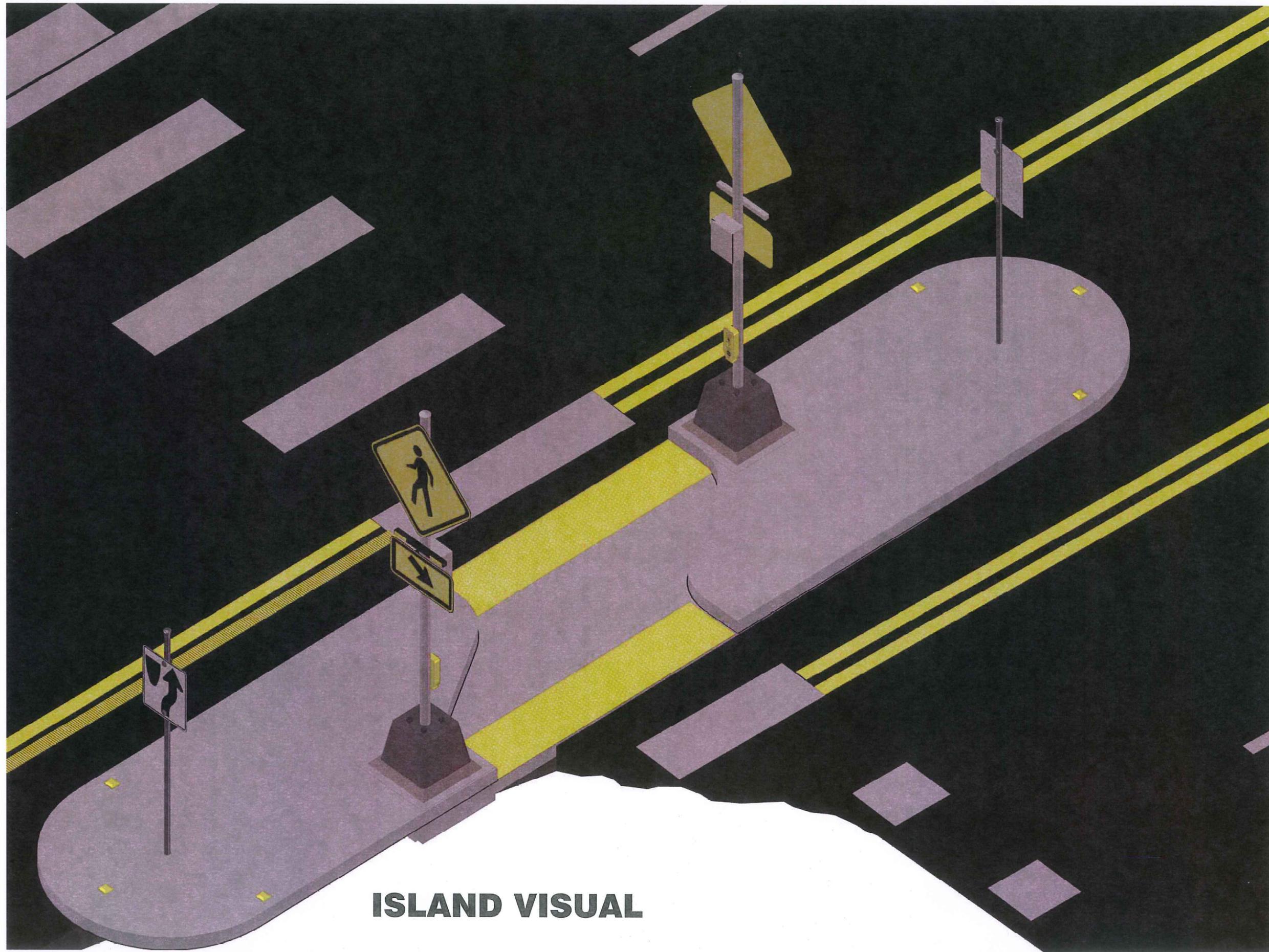
RAMP VISUAL

PROJECT NO: P21117
 CHAPMAN LN. PED CROSSING

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ISLAND VISUAL

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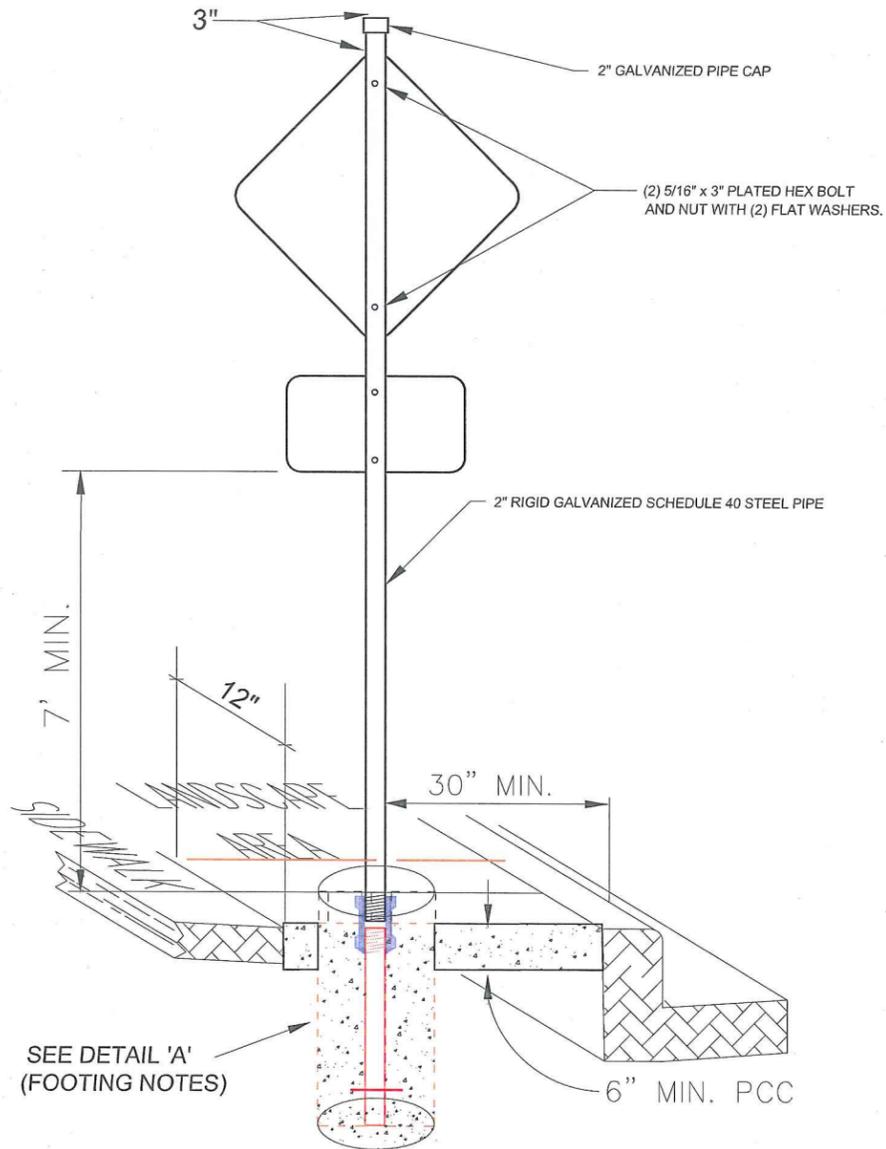


EXPIRES 12-31-17

SHEET

D5

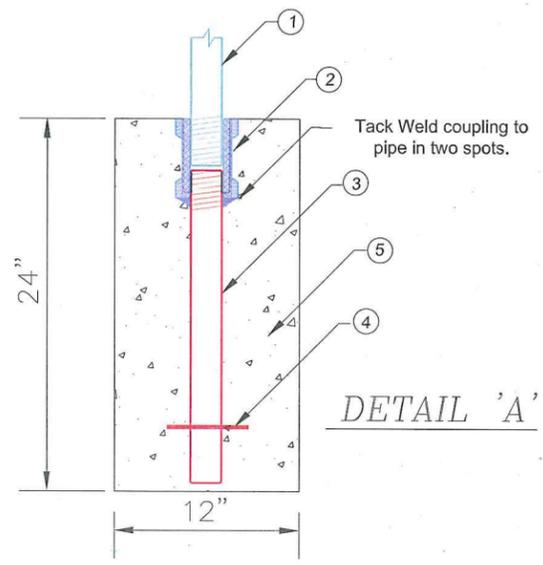
SUB TRENCHING DETAILS



SETBACK SIDEWALK SIGN INSTALLATION

FOOTING INSTALLATION NOTES

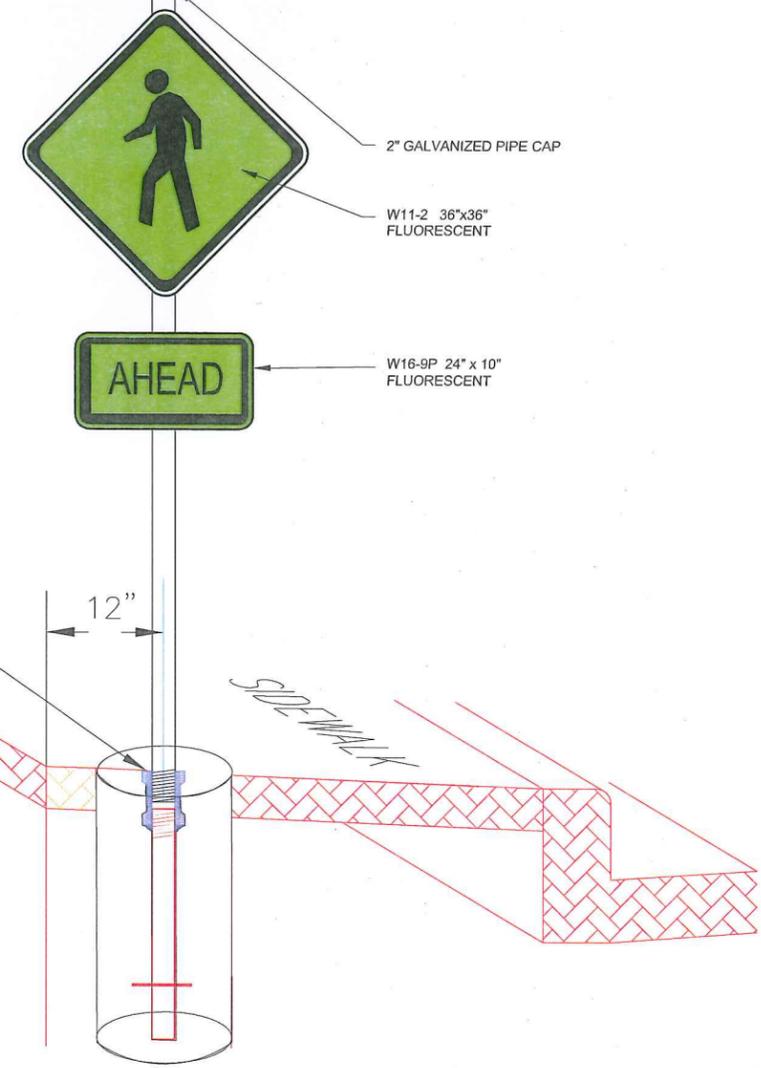
- ① INSTALL 2" SCHEDULE 40 RIGID GALVANIZED STEEL PIPE.
- ② INSTALL 2" THREADED, GALVANIZED, MALLEABLE IRON PIPE COUPLING, (CLASS 150) WITH TOP SET FLUSH AT FINISHED GRADE.
- ③ INSTALL 2" RIGID GALVANIZED STEEL PIPE TACK WELDED TO COUPLING TO PREVENT TURNING.
- ④ INSTALL 1/4" X 8" STEEL PIN (Spike) THROUGH STEEL PIPE
- ⑤ INSTALL SIGN BASE ASSEMBLY IN CLASS 3300 PORTLAND CONCRETE USING 2' MIN. GUIDE ROD TO INSURE SIGN POST WILL BE VERTICAL.



DETAIL 'A'

MALLEABLE BASE COUPLING FLUSH WITH SIDEWALK GRADE LEVEL WITH 2' PIPE FOR VERTICAL PLUMB

NOTE: BEFORE INSTALLING A SIGN BASE CONTACT CITY TRANSPORTATION DIVISION TO REQUEST A MARKED SIGN LOCATION. CALL - (541) 726-3753



CURBSIDE SIDEWALK INSTALLATION

NOTE: DRAWING NOT TO SCALE
ALL EYEBOLTS, BOLTS, NUTS, AND WASHERS SHALL BE GALV. STEEL UNLESS NOTED OTHERWISE. ALL SET SCREWS SHALL BE MIN. DIA. 1/4" STAINLESS STEEL WITH SQUARE OR HEX HEADS. ALL SPANWIRE HANGERS AND PLUMBIKERS SHALL BE CAST BRONZE.

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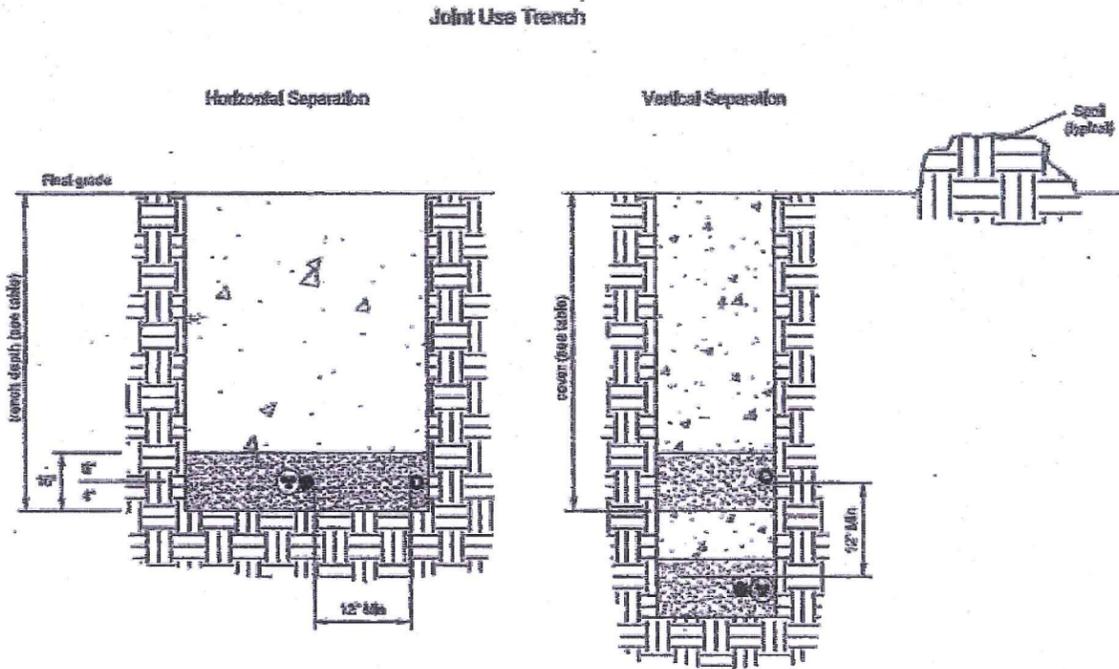


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D6

SUB TRENCHING DETAILS

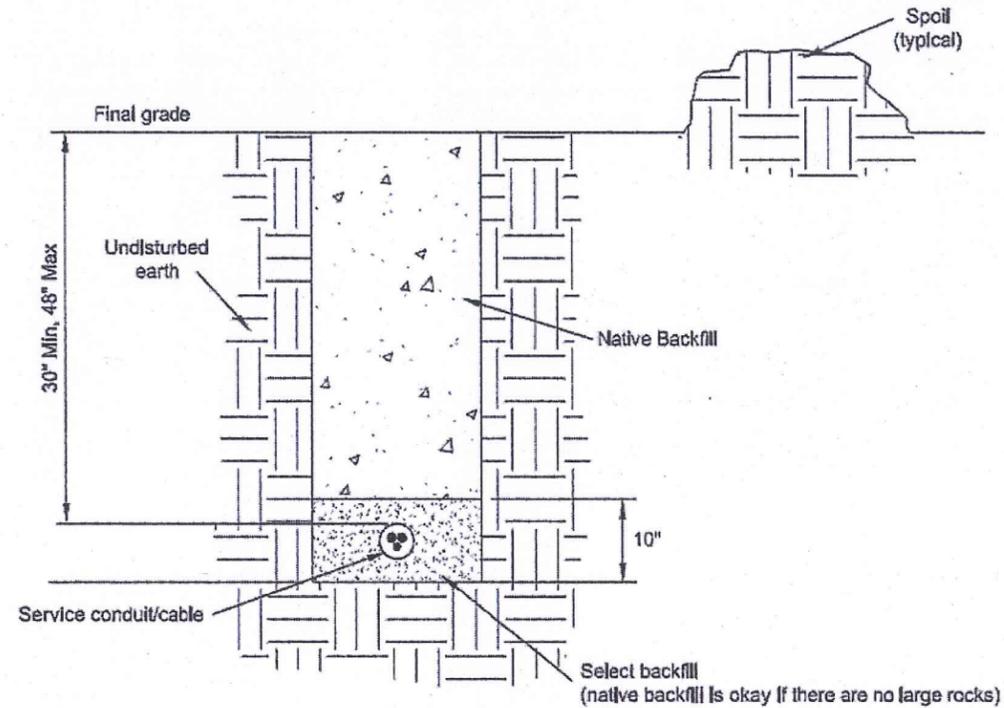


LEGEND

- Other Electric Utilities (Telephone, Cable TV)
- Secondary/Service (Conduit/Cable)
- Primary (Conduit/Cable)
- Native Backfill
- Select Backfill
- Undisturbed Earth

Conduit/Cable	Minimum Cover	Max. Burial Depth
Primary	36"	48"
Secondary/Service	30"	48"

Power Cable Trench (Only)



LEGEND

- Service (Conduit/Cable)
- Native Backfill
- Select Backfill
- Undisturbed Earth

SPRINGFIELD UTILITY BOARD
ENGINEERING STANDARD DISTRIBUTION
PROCEDURES & POLICIES
TRENCHING DETAILS

DATE: 1/20/03 BY: JCH/KL/APP
3/25/2010 I SK I SK I EH I TJ

STANDARD NUMBER
ESD 0074
Page 2 of 4

SPRINGFIELD UTILITY BOARD
ENGINEERING STANDARD DISTRIBUTION
PROCEDURES & POLICIES
TRENCHING DETAILS

DATE: 1/20/03 BY: JCH/KL/APP
3/25/2010 I SK I SK I EH I TJ

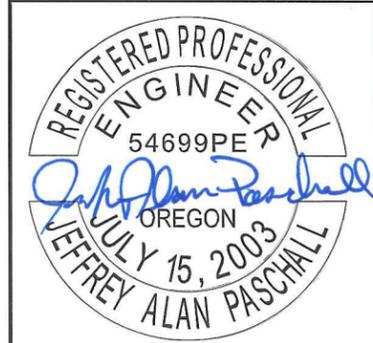
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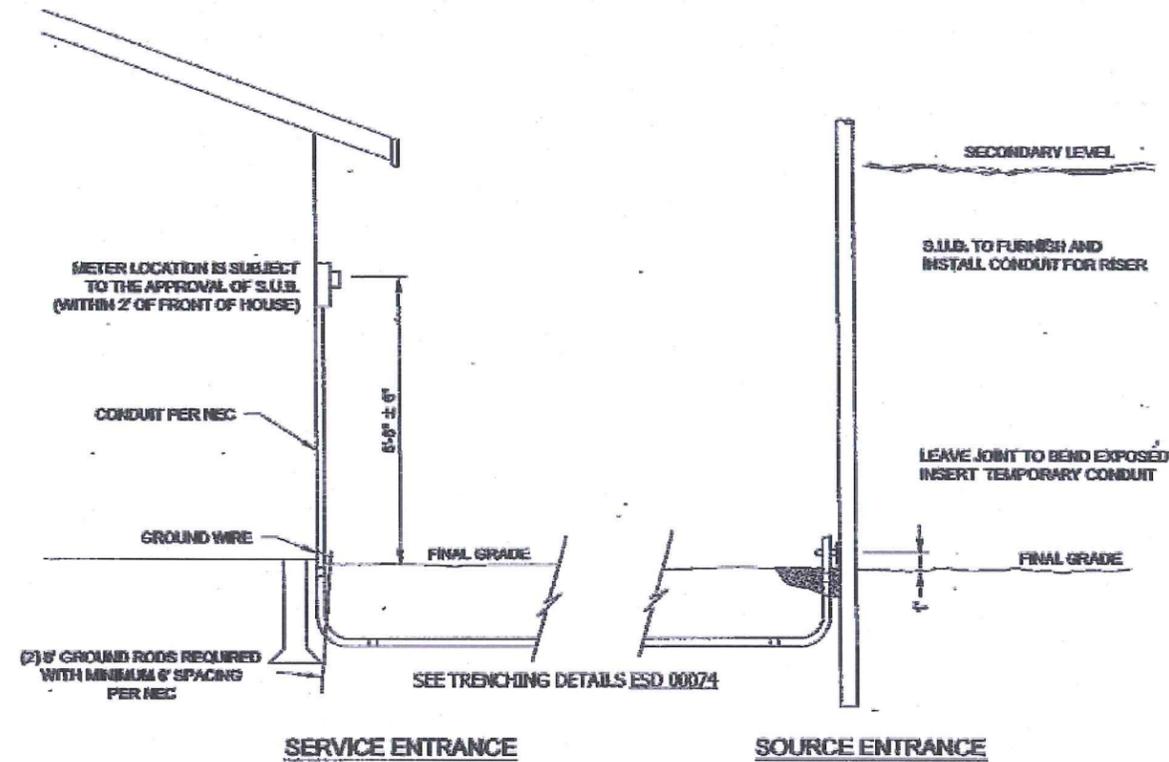
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SHEET
D7

SUB TRENCHING DETAILS



CUSTOMER TO PROVIDE:

1. All conduit from the base of the pole to the meter base. Conduit shall be Schedule 40 PVC conduit, 2" minimum, no half sizes.
2. Bends must be Schedule 40 PVC long sweep, 36" radius, no more than a total of 270 degrees in the run.
3. A minimum of 30 inches of ground cover over conduit is required. Call the Electric Department at 541-726-2395 to arrange for a trench inspection. Do not backfill until trench is approved. An inspection sticker will be placed on the conduit at the service entrance for verification of inspection.
4. Construct the conduit, to the SUB supplied bracket on the pole, as far out on the bracket as possible, or as designated by SUB. Attach a temporary piece of conduit to the bracket to assure alignment. Leave the joint exposed and do not glue the joint.
5. Payment of required Development/Redevelopment Charges (DRC's).
6. Service conductor, as specified by the NEC, of sufficient length to make terminations at the meter base and at the secondary level at the pole. Spliced conductor will not be allowed. Call the Electric Department at 541-726-2395 to arrange for assistance pulling in the conductor.
7. Provide current billing information prior to energization.

SUB	SPRINGFIELD UTILITY BOARD	DATE	DWN	CHK	APP
	ELECTRIC ENGINEERING AND CONSTRUCTION STANDARDS	12/26/13	TGJ	SK	RLM
	UNDERGROUND SERVICE FED FROM OVERHEAD	STANDARD NUMBER ESD 0106			

Page 1 of 2

No.	Revision/Issue	Date
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EXPIRATION DATE: 12/31/16

SHEET

D8

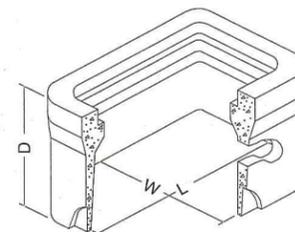
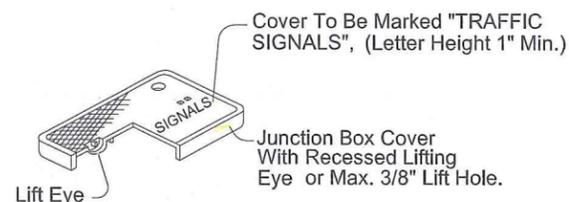
TRENCHING NOTES

- IF LOCATING EQUIPMENT IN SIDEWALK, SAWCUT AT WALK TO NEAREST PANEL NEAR POLE, CONSTRUCT 2" SCH 40 PVC CONDUIT MIN. 30" DEPTH. SEE SHEET P2 ELECTRICAL PLAN. SEE DETAIL SHEETS D7 & D8 FOR SPRINGFIELD UTILITY BOARD (S.U.B.) REQUIREMENTS. COORDINATE WITH S.U.B. FOR POWER CONNECTION AND SPECIFIC REQUIREMENTS PRIOR TO CONSTRUCTION. UTILITY LOCATES/ CONFLICTS MUST BE DETERMINED PRIOR TO CONSTRUCTION.
- CONSTRUCT 2" SCH 40 PVC CONDUIT BORE AND PLACE CONDUIT & SPARE CONDUIT FROM BACK OF WALK TO BACK OF WALK AT STREET CROSSING. SEE SHEET P2 ELECTRICAL PLAN AND D9 DETAILS.

GENERAL NOTES

- Type "A" cabinet has a top hinged lift cover with provision to hold cover in open position.
- Type "B" cabinet has cover hinged on left or right side with catch and handle.
- All enclosures shown on this dwg. shall bear a U. L. label reading: "CUTOUT BOX" (Raintight)
- Cabinets formed from 10 Gage thick sheet metal. Hot dip galvanized after fabrication or 12 gage type 304 or 306 stainless steel.
- Dimensions are based on the following frame sizes:
 - "TEB" for 240 v. rating
 - "TED" for 277, 480 and 600 v. rating
- All internal wiring, except field wires, shall be done by a U.L. listed facility.
- Deadfronts may be fabricated from code thickness galvanized sheet metal or type 304 or 316 stainless steel.
- For galvanized sheet metal deadfronts:
 - Cut edges shall be treated with zinc-rich paint.
 - They shall be primed with vinyl wash primer and finished with exterior polyurethane enamel.
 - The color shall be similar to that of OSHD formula no. 15-74 aluminum.
- Install copper buss bars for main and branch circuits.
- Provide 2 (min.) locator studs near top for dead fronts, and handle (finger) on dead front near bottom.

CB = Circuit Breaker
 C = Contactor
 N = Neutral Block (copper)
 TS = Test Switch
 PCB = Photocell Circuit Breaker

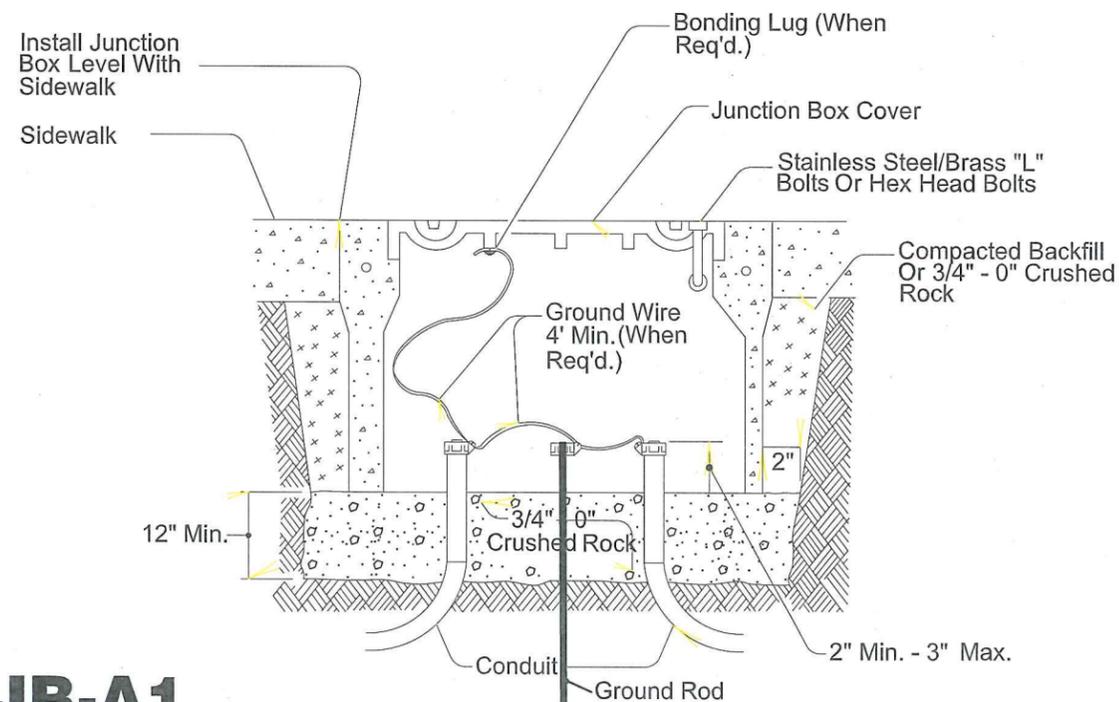


JUNCTION BOX

Not To Be Used In Travel Lanes, Shoulders Or Areas Exposed To Traffic. For Location And Junction Box Dimensions, See Plans.

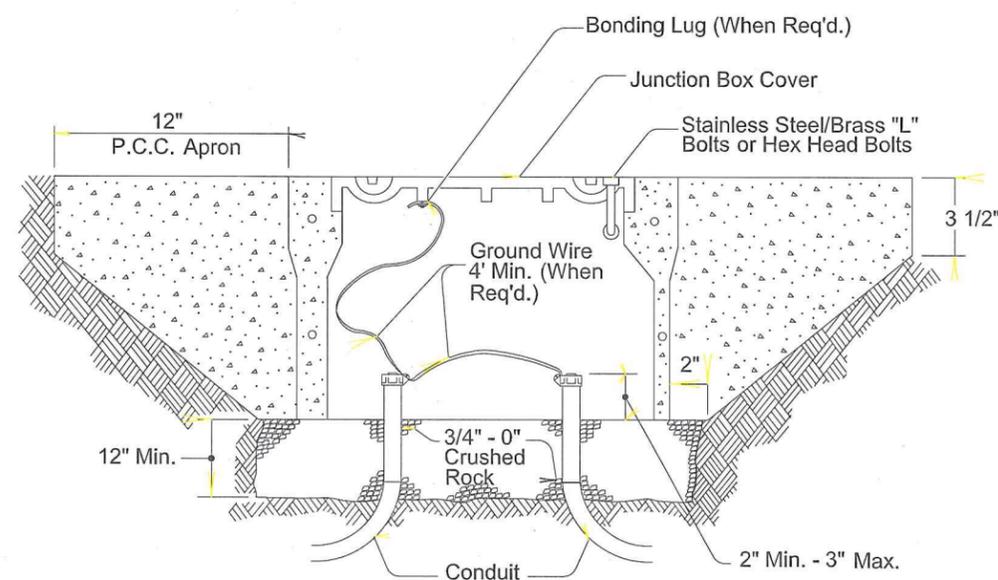
Type	L	W	D	Type	L	W	D
JB1	17"	10"	12"	HH-1	24"	30"	24"
JB2	22"	12"	12"	HH-2	30"	48"	24"
JB3	30"	17"	12"	HH-3	30"	48"	36"

JUNCTION BOX/ HAND HOLE DIMENSION TABLE



JB-A1

INSTALLATION IN SIDEWALK OR AT BACK OF CURB



JB-1

INSTALLATION WITH PORTLAND CEMENT CONCRETE APRON
 (For Incidental Travel Areas Only; Gravel Shoulders, Behind Guardrail, Etc.)

NOTE:
 Use Stainless Steel / Brass Bolts or Hex Head Bolts To Secure Lid.

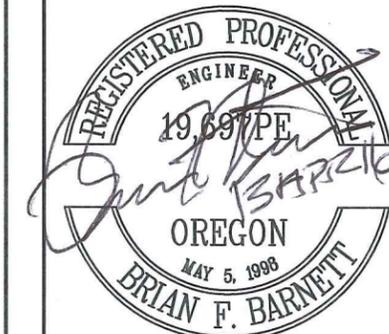
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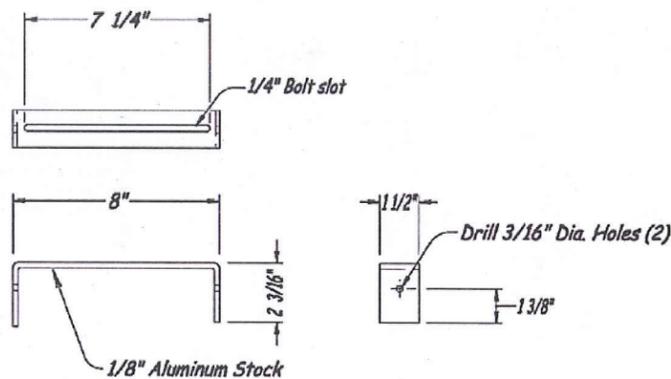
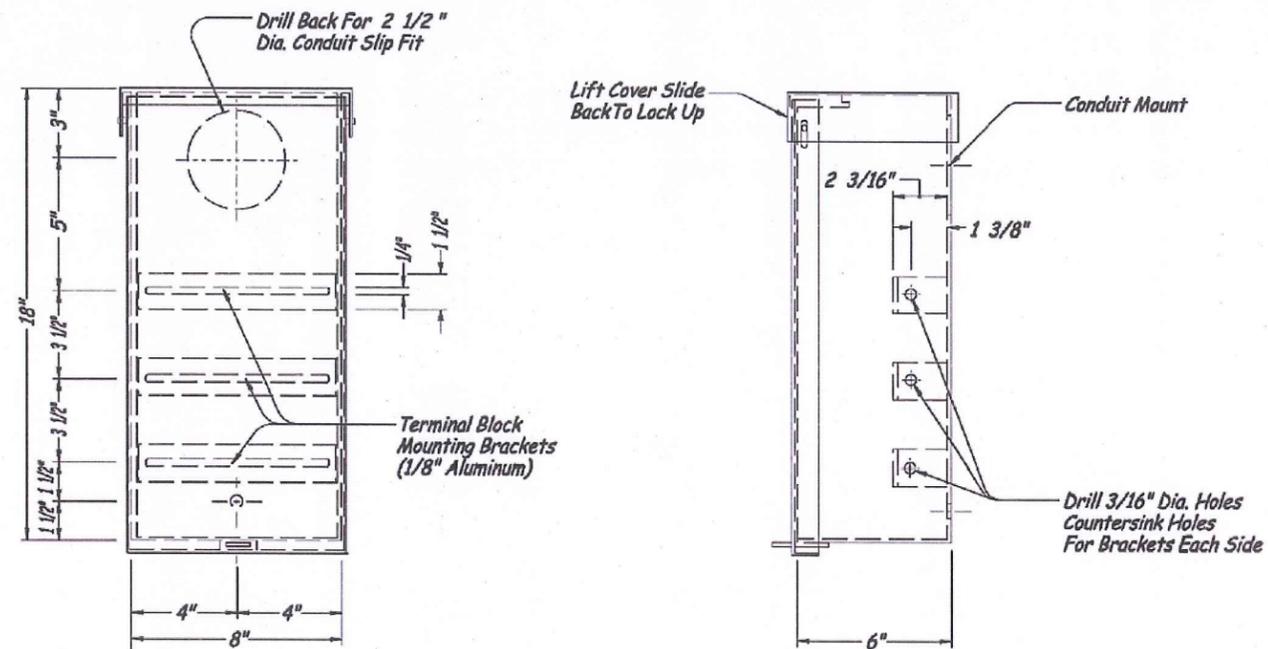


EXPIRES 12-31-17

SHEET

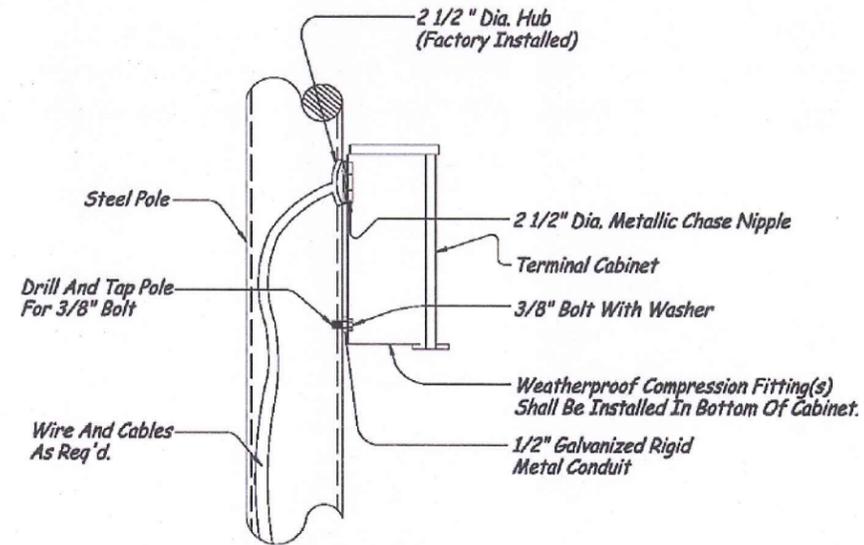
D9

TERMINAL CABINET DETAIL



TERMINAL BLOCK MOUNTING BRACKET
WEATHERPROOF TERMINAL CABINET

NOTE:
All Bolts, Nuts And Washers Shall Be Stainless Steel Unless Noted Otherwise.



INSTALLATION DETAIL
(Terminal Cabinet)

NOTE:
When Installing On Wood Pole Use Two 3/8" Dia. x 4" Lag Screws With Washers

CALC. BOOK NO. <i>N/A</i>	BASELINE REPORT DATE <i>07-01-14</i>
ACCOMPANIED BY BASELINE REPORT	NOTE: All material and workmanship shall be in accordance with the current Oregon Standard Specifications
The selection and use of this Standard Drawing, while designed in accordance with generally accepted engineering principles and practices, is the sole responsibility of the user and should not be used without consulting a Registered Professional Engineer.	OREGON STANDARD DRAWINGS
	TERMINAL CABINET DETAIL
	2015
	REVISIONS
DATE	DESCRIPTION

December 1, 2015 - May 31, 2016

TM488

No.	Revision/Issue	Date
DRAWN: RBK		

NOTE:

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811 or (1-800-332-2344)

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PROJECT NO: P21117
CHAPMAN LN. PED CROSSING

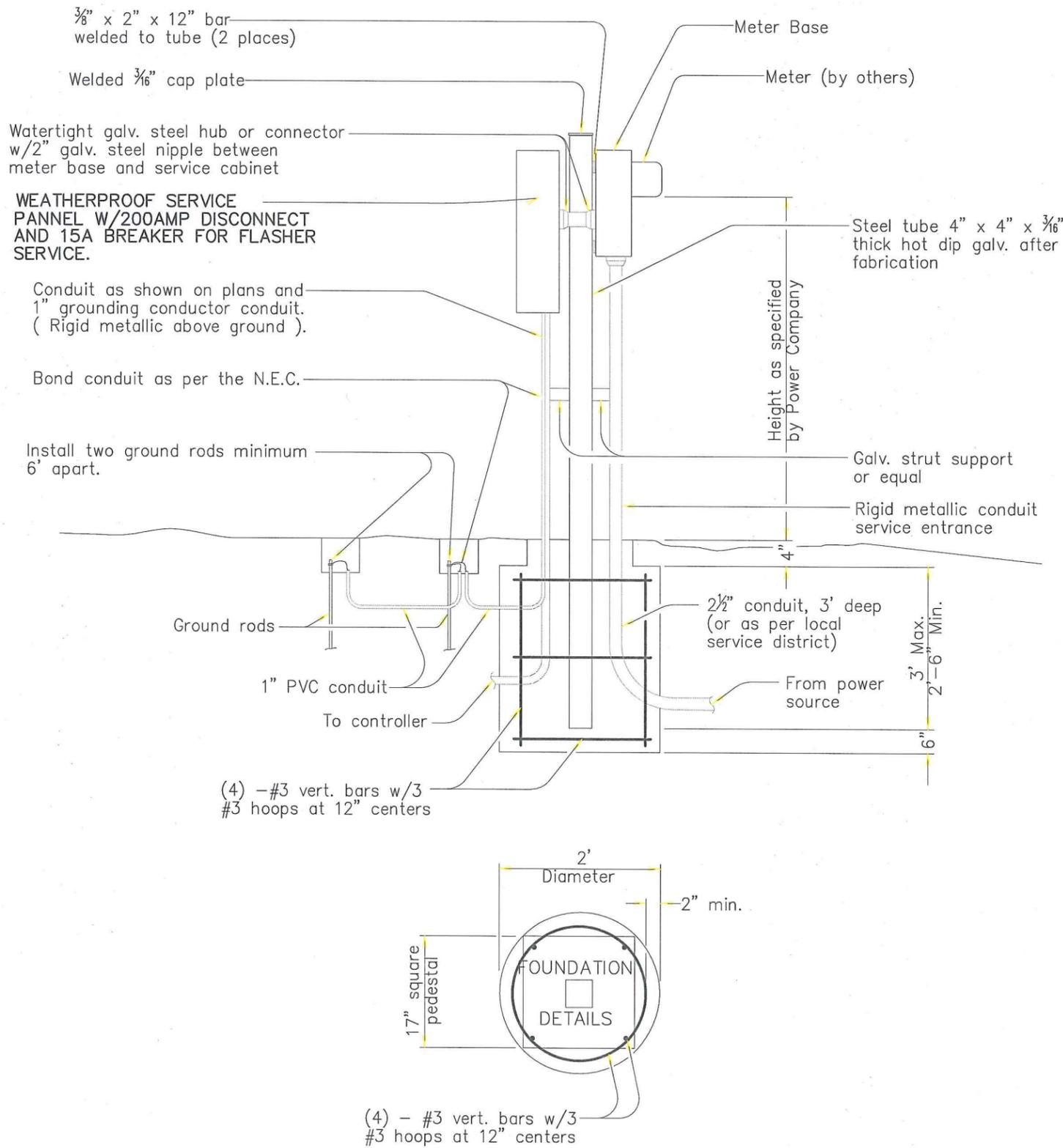
City of Springfield
PUBLIC WORKS / ENGINEERING
225 FIFTH STREET, SPRINGFIELD, OR 97477
PHONE (541) 726-3753 FAX (541) 736-1021
INTERNET www.ci.springfield.or.us



EXPIRES 12-31-17

SHEET

D10



REMOTE POWER SERVICE POST (UNDERGROUND)

SERVICE PANEL/METER BASE

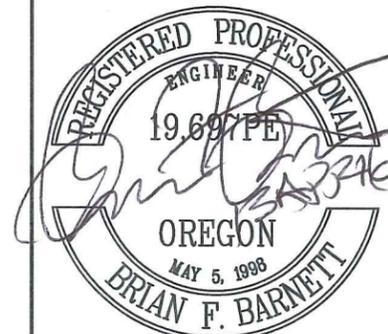
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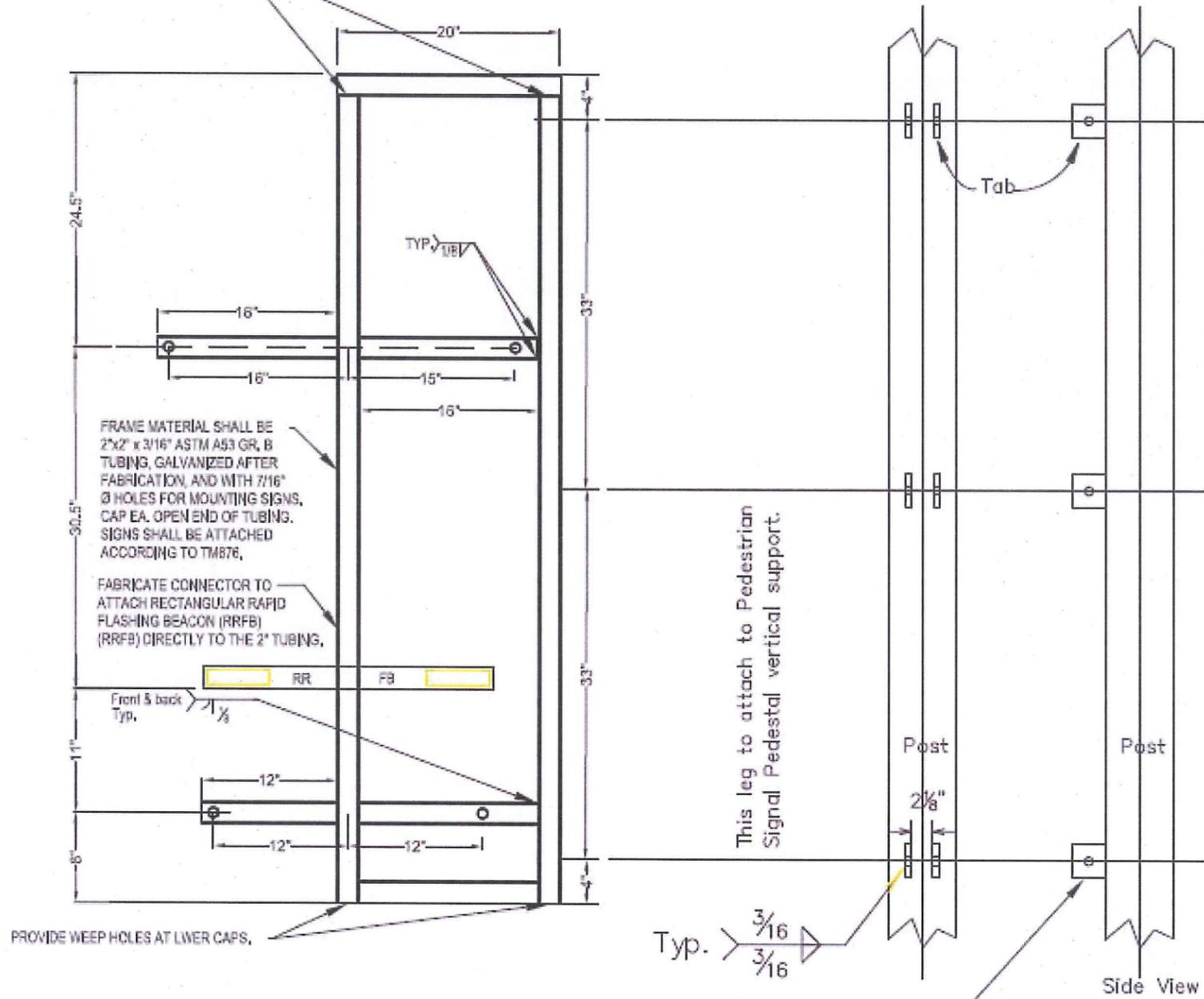
EXPIRES 12-31-17

SHEET

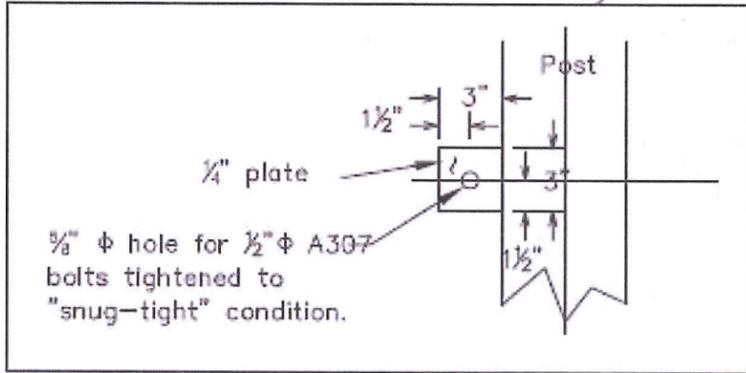
D11

DRILL MIN. 1" Ø HOLE TO THREAD WIRE THROUGH FRAME.

SIGN MOUNTING DETAILS



SIDE MOUNT DETAILS



RRFB Side Mount Detail

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REGISTERED PROFESSIONAL
 ENGINEER
 19,007PE
 OREGON
 MAY 5, 1998
 BRIAN F. BARNETT
 EXPIRES 12-31-17

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:

- 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.).
- 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.
- C. An inspection of the erosion control measures by City LDAP staff is required prior to any ground disturbance on the site.
- 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.
- 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.
- 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.
- 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.
- 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).
- 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.
- 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 & mulching with straw, bark, compost, or plastic covering, etc.).
- 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.
- 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.
- 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.
- 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
- 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. 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.
- 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.
- 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.
- S. Where straw mulch for temporary erosion control is required, it shall be applied at a minimum thickness of two to three inches.
- 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).

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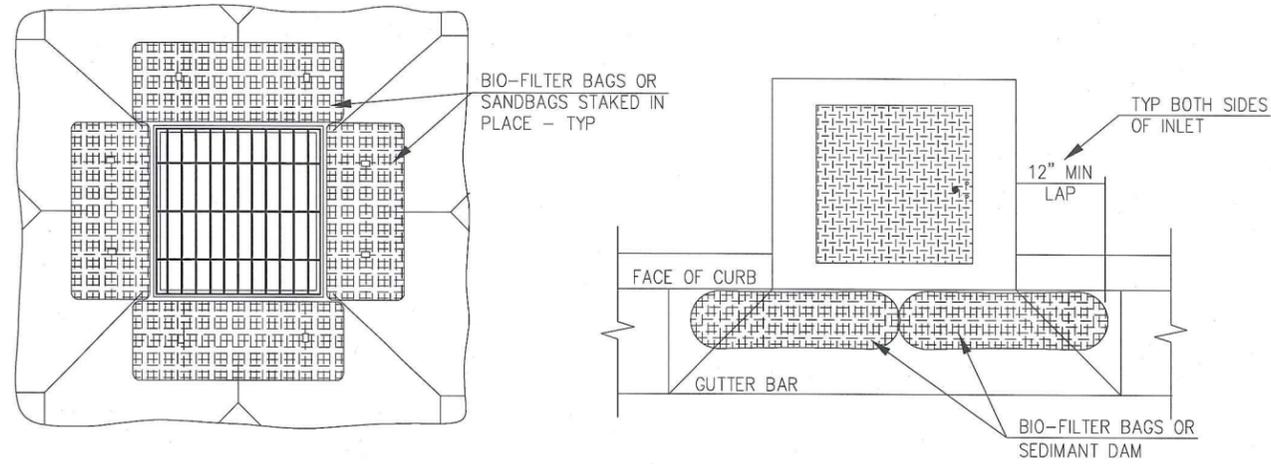
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EXPIRATION DATE: 12/31/16

SHEET

E1

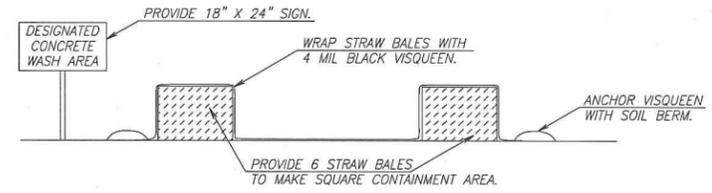


NOTES
 1. PRIOR TO 1st PAVEMENT LIFT, REMOVE BIO-BAG/SANDBAG BARRIERS AND INSTALL BASIN INSERT BAG OR CURB INLET SEDIMENT DAM AT ALL INLET STRUCTURES.

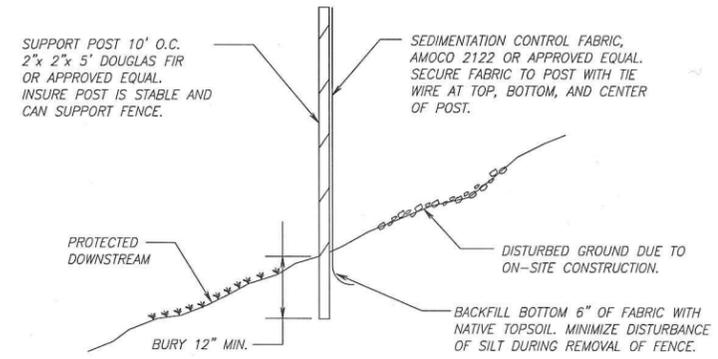
1 DRAINAGE INLET STRUCTURE PROTECTION
 NO SCALE



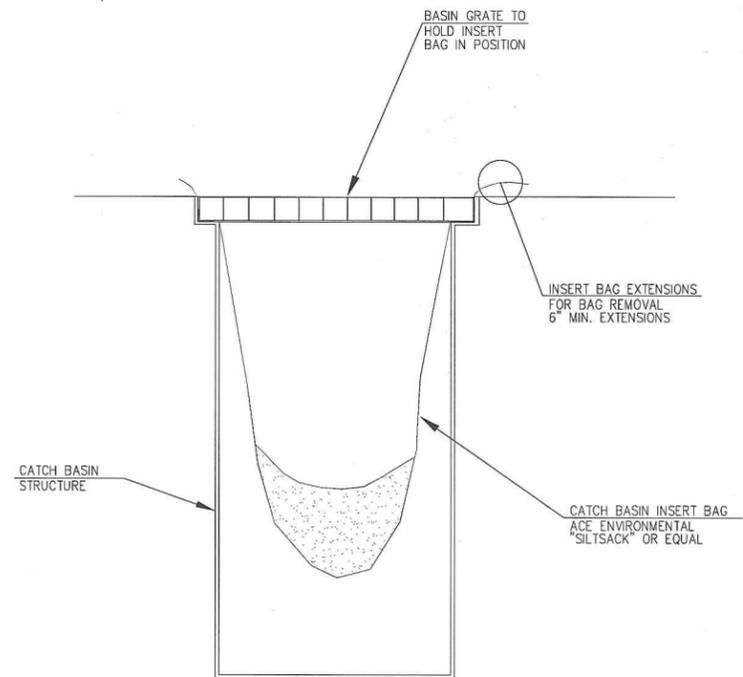
INLET PROTECTION



CONCRETE WASH AREA DETAIL
 N.T.S.



SEDIMENTATION CONTROL FABRIC TYPE SILT FENCE
 N.T.S.



1 CATCH BASIN INSERT BAG
 NO SCALE

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EXPIRATION DATE: 12/31/10

48th & Main Pedestrian Crossing

This project will consist of constructing a RRFB pedestrian crossing at 48th & Main Street.
Location 1 of 2

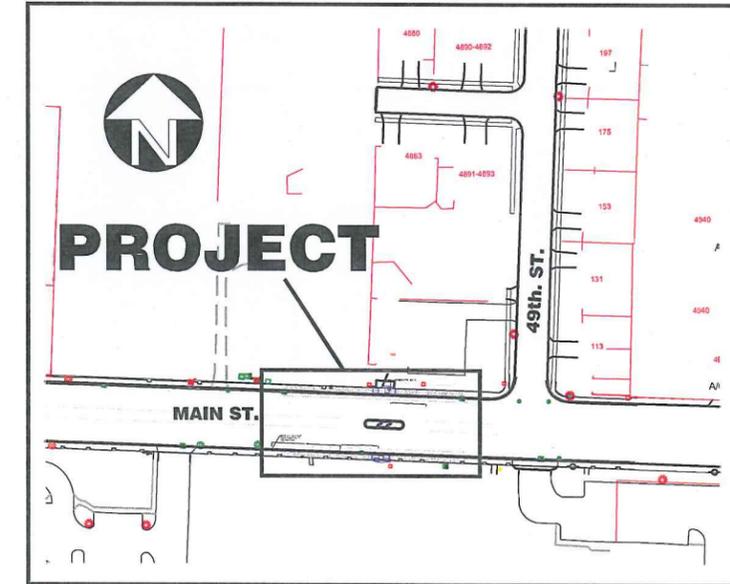
LEGEND

RIGHT OF WAY (ROW) LINE	— ROW — ROW —
GAS LINE	— GAS — GAS —
FIBER OPTIC (NO. OF CABLES)	— FO —
WATER LINE	— W —
POWER (ELECTRIC)	— P —
STORM SEWER (STATE)	— ST —
RIGHT OF WAY	— RW —
SANITARY SEWER (EXISTING)	— WW —
STORM SEWER (NEW)	— SD — SD —
SANITARY SEWER (NEW)	— SD — SD —
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	

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(DING)(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 CONSTRUCTION	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 THRUST BLOCK
CV CHECK VALVE	MJ MECHANICAL JOINT	TEMP TEMPORARY
CY CUBIC YARD	MUTCD MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES	THK THICK
D DRAIN	NTS NOT TO SCALE	THRU THROUGH
DET DETAIL	OC ON CENTER	TV TELEVISION
DL DUCTILE IRON	OD OUTSIDEDIAMETER	TYP TYPICAL
DIA / Ø DIAMETER	ODOT OREGON DEPARTMENT OF TRANSPORTATION	VERT VERTICAL(LY)
DR DRIVE	OVHD OVERHEAD UTILITY	W WATER
DWG DRAWING	P POWER	W/ WITH
DWY DRIVE WAY	PCC PORTLAND CEMENT CONCRETE	W/IN WITHIN
EA EACH	PE PLAIN END	W/O WITHOUT
EL ELEVATION	PERM PERMANENT	WM WATER METER
ELEC/E ELECTRICAL	P/L PROPERTY LINE	
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 FIREHYDRANT		
FIN GR FINISHED GRADE		
FL FLOW LINE		
FLG FLANGE(D)		

VICINITY MAP



SHEET INDEX

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ELECTRICAL PLAN	SHT. P2
STRIPING PLAN	SHT. P3
N.&S. PED POLE DETAIL	SHT. D1
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RAMP VISUAL	SHT. D4
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SIGN DETAILS	SHT. D6
S.U.B. ELECTRICAL DETAILS	SHT. D7
S.U.B. ELECTRICAL DETAILS	SHT. D8
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SIDE MOUNT FRAME DETAIL	SHT. D12
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EXPIRES 12-31-17

SHEET

1

GENERAL CONSTRUCTION NOTES:

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- A. ALL MATERIALS AND WORKMANSHIP WITHIN THE PUBLIC RIGHT-OF-WAY OR PUBLIC EASEMENTS SHALL MEET CURRENT CITY OF SPRINGFIELD DEPARTMENT OF PUBLIC WORKS "STANDARD CONSTRUCTION SPECIFICATIONS IN ADDITION TO THESE PLANS.
- B. 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.
- C. 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.
- D. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION WITH UTILITY COMPANIES ON THE TIMING OF INSTALLATION OF THEIR FACILITIES.
- E. SPRINGFIELD CODE 10.2.1 REQUIRES NOTIFICATION OF OPEN TRENCHING FOR THE PROJECT TO ALLOW POSSIBLE COMMUNICATION CABLE INSTALLATION.
- F. 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.
- G. 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.
- H. 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.
- I. THE SEWER GRADE SHALL BE PER THE PLANS SPECIFICATIONS AND WITH THE MINIMUM COVER AS SHOWN ON THE PLANS
- J. 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.
- K. CONTRACTOR TO SCHEDULE A PRE-PAVING CONFERENCE 24 HOURS PRIOR TO PAVING. CONTACT THE CONSTRUCTION INSPECTOR.
- L. ALL JOINTS BETWEEN EXISTING and NEW ASPHALT PAVING SHALL BE SEALED WITH POLYMERIZED ASPHALT AND SANDED TO PREVENT PICK UP.
- M. COMPACTION REQUIREMENTS:
- | LAYER | RATE | TEST |
|------------------------------|------|------|
| SUBGRADE | 95% | T99 |
| CRUSHED ROCK | 95% | T180 |
| ASPHALT (LOCAL) | 90% | RICE |
| ASPHALT (COLLECTOR/ARTERIAL) | 92% | RICE |
- N. CONCRETE COMPRESSIVE STRENGTH REQUIREMENTS (PSI):
- | CONCRETE USE | FIELD | LABORATORY |
|--------------------|-------|------------|
| SIDEWALK/ADA RAMPS | 3000 | 3450 |
| CURBS/GUTTERS | 3500 | 4025 |
| DRIVEWAYS | 3500 | 4025 |
| PAVEMENT | 4000 | 4600 |
- O. 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.
- P. 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.
- Q. 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.
- R. EROSION CONTROL MEASURES SHALL BE IN PLACE PRIOR TO THE START OF CONSTRUCTION. SEE EROSION CONTROL PLAN.
- S. 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.
- T. 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.
- U. 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.
- V. REQUESTS BY THE CONTRACTOR FOR CHANGES SHALL BE APPROVED BY THE ENGINEER AND THE CITY IN WRITING PRIOR TO IMPLEMENTATION.
- W. CONTRACTOR SHALL SUBMIT EVIDENCE OF INSURANCE IN ACCORDANCE WITH THE STANDARD SPECIFICATION TO THE CITY FOR APPROVAL PRIOR TO BEGINNING WORK.
- X. 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
- Y. THE CONTRACTOR SHALL VERIFY EACH EXISTING SANITARY AND STORM CONNECTION.

No.	Revision Issue	Date
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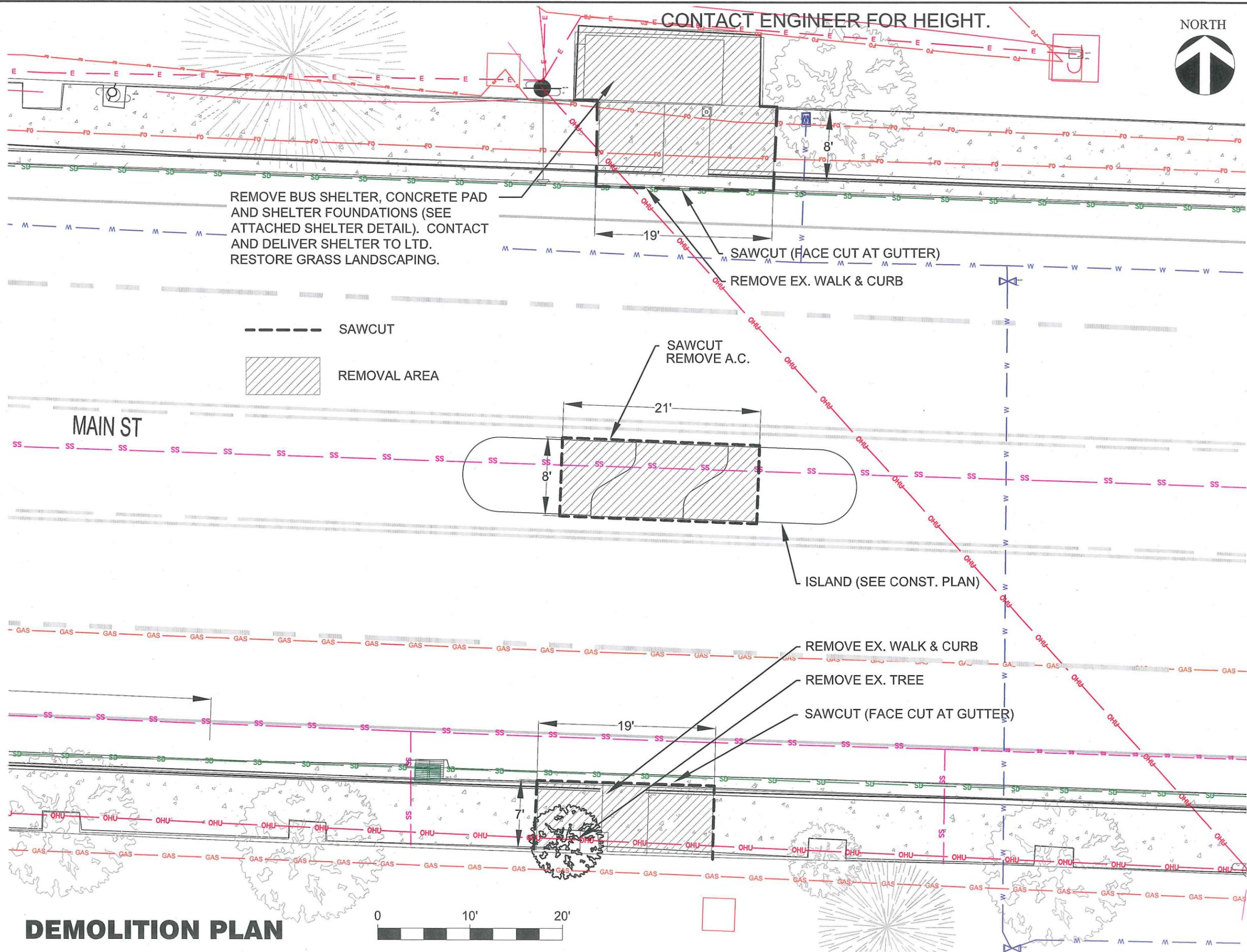
EXPIRES 12-31-17

SHEET

2

CONTACT ENGINEER FOR HEIGHT.

NORTH



REMOVE BUS SHELTER, CONCRETE PAD AND SHELTER FOUNDATIONS (SEE ATTACHED SHELTER DETAIL). CONTACT AND DELIVER SHELTER TO LTD. RESTORE GRASS LANDSCAPING.

SAWCUT (FACE CUT AT GUTTER)

REMOVE EX. WALK & CURB

--- SAWCUT
[Hatched Box] REMOVAL AREA

SAWCUT REMOVE A.C.

ISLAND (SEE CONST. PLAN)

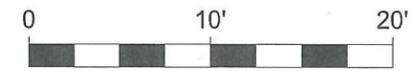
REMOVE EX. WALK & CURB

REMOVE EX. TREE

SAWCUT (FACE CUT AT GUTTER)

MAIN ST

DEMOLITION PLAN



No.	Revision/Issue	Date

NOTE:

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811 or (1-800-332-2344)

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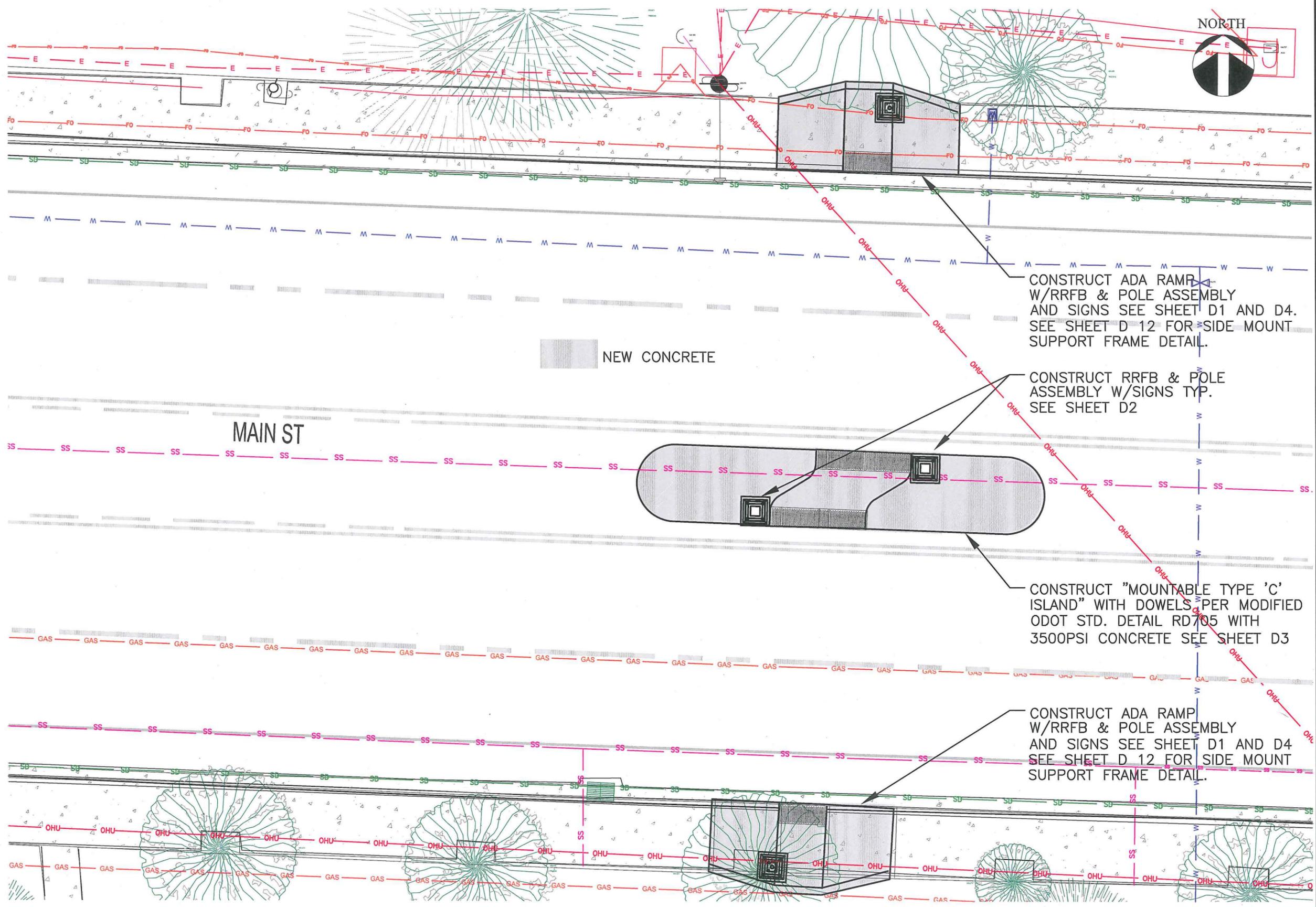
PROJECT NO: P21117
48TH ST. PED CROSSING

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PUBLIC WORKS / ENGINEERING
225 FIFTH STREET, SPRINGFIELD, OR 97477
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EXPIRATION DATE: 12/31/16

SHEET
DM1



NEW CONCRETE

MAIN ST

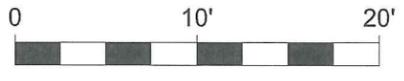
CONSTRUCT ADA RAMP
W/RRFB & POLE ASSEMBLY
AND SIGNS SEE SHEET D1 AND D4.
SEE SHEET D 12 FOR SIDE MOUNT
SUPPORT FRAME DETAIL.

CONSTRUCT RRFB & POLE
ASSEMBLY W/SIGNS TYP.
SEE SHEET D2

CONSTRUCT "MOUNTABLE TYPE 'C'
ISLAND" WITH DOWELS PER MODIFIED
ODOT STD. DETAIL RD705 WITH
3500PSI CONCRETE SEE SHEET D3

CONSTRUCT ADA RAMP
W/RRFB & POLE ASSEMBLY
AND SIGNS SEE SHEET D1 AND D4
SEE SHEET D 12 FOR SIDE MOUNT
SUPPORT FRAME DETAIL.

CONSTRUCTION PLAN



Note: All utilities to be potholed by contractor prior to boring to verify elevations.

No.	Revision/Issue	Date

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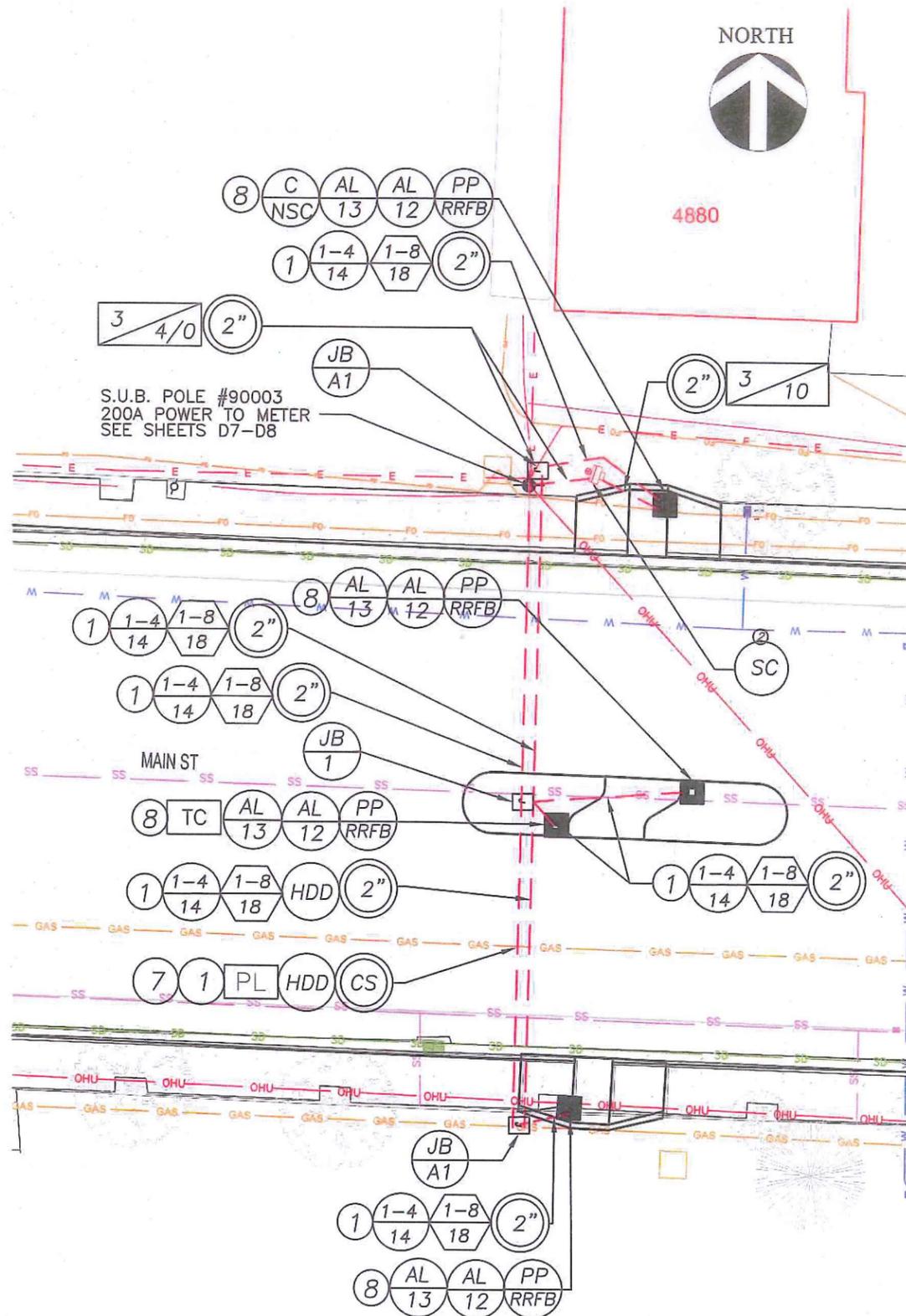
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EXPIRATION DATE: 12/31/16

SHEET
P1



Note: All utilities to be potholed by contractor prior to boring to verify elevations.

ELECTRICAL PLAN 0 20' 40'

Rectangular Rapid Flashing Beacon – Legend

- Install pedestrian signal pedestal on frangible base with Rectangular Rapid Flashing Beacon (RRFB), and APS pedestrian push button and sign. (See RRFB Detail sheet 1, 2 & Special Provisions)
- Install RRFB Network System Controller (NSC) (See Special Provisions)
- Install (N=Number) No. (G=AWG wire size) type THWN conductors with green insulated ground
- Install (X=number of cables) cables with (N=number) AWG No. (G=AWG wire size) type 18AWG BELDON 27601A.
- Install (S=Size) inch schedule 40 PVC electrical conduit.
- Install poly pull line (225 ft./lb. min. strength).
- Install aluminum, 36" x 36" W11-2 "PEDESTRIAN CROSSING" warning sign with Fluorescent Yellow, Diamond Grade sheeting. (See Special Provisions).
- Install aluminum, 30" x 18" W16-7P "ARROW" warning sign with Fluorescent Yellow, Diamond Grade sheeting. (See Special Provisions).
- Install 11" x 18" x 12" precast polymer concrete junction box. With Concrete Apron. SEE SHEET D9
- Install 11" x 18" x 12" precast polymer concrete junction box. With Concrete Apron. SEE SHEET D9
- Install conduit by Horizontal Directional Drilling (Open Trench not allowed.) Pothole all utilities for elevation verification prior to boring.
- Install 2" conduit spare (cap ends).
- Install 6" x 8" x 12" service cabinet, 120 volt 60 amp Main, with 15 amp circuit breaker for RRFB. Mounted on 4"Ø steel tube (See SHEET D6.)
- Install (X=number of cables) control cables with (N=number) AWG No. (G=AWG wire size) control cable.
- Install Terminal Cabinet See Sheet D10.

CONSTRUCTION NOTES:

- ① Install and/or maintain a No. 16 AWG THWN stranded copper wire with a orange base and blue stripe in ALL conduits as a locate wire.
- ⑦ Install (1) Spare 2" Conduit Crossing for future use.
- ⑧ Install Flashing LED and Signs. See Sheets D1 and D2.

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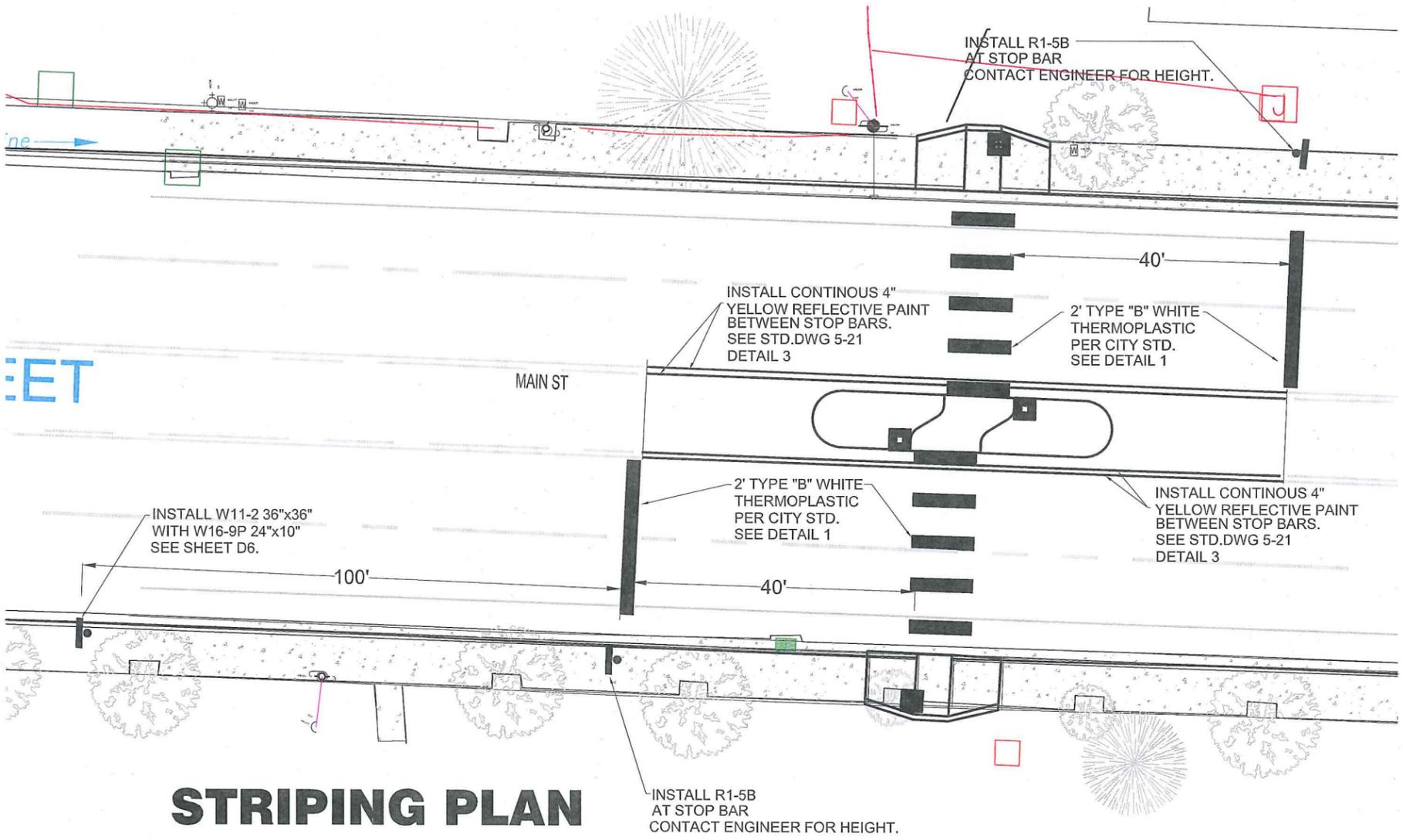
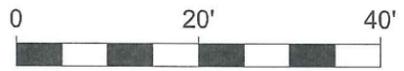
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225 FIFTH STREET, SPRINGFIELD, OR 97477
PHONE (541) 726-3123 FAX (541) 726-1021
INTERNET www.cspRINGfield.or.us

Traffic Section Approved
TRS 18879

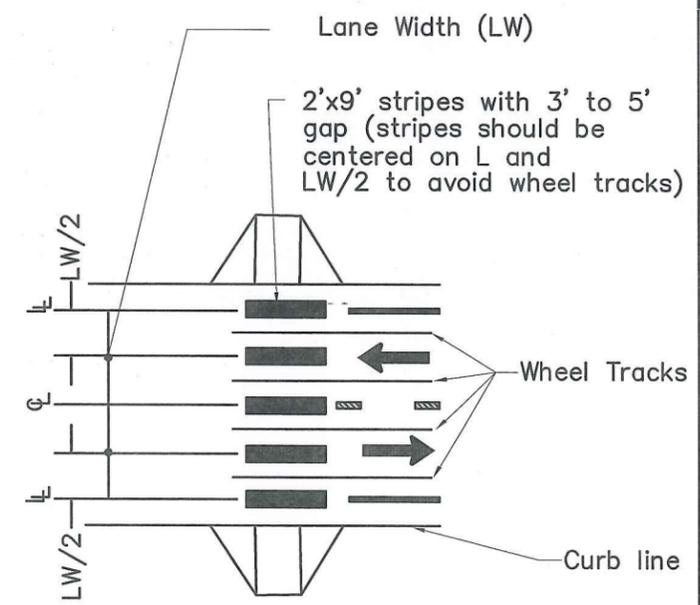


EXPIRES 12-31-17

SHEET
P2



STRIPING PLAN



STAGGERED CONTINENTAL LAYOUT

Note:
Install crosswalk bars such that the throat of the ADA ramp is entirely within crosswalk markings or 5' back of extended fog line, edge of pavement, or curb face.

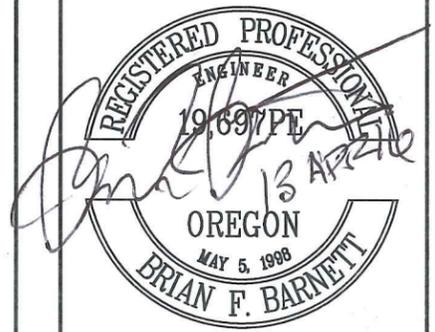
NOTE:
VERIFY SIGN LOCATIONS WITH ENGINEER PRIOR TO CONSTRUCTION.

No.	Revision/Issue	Date

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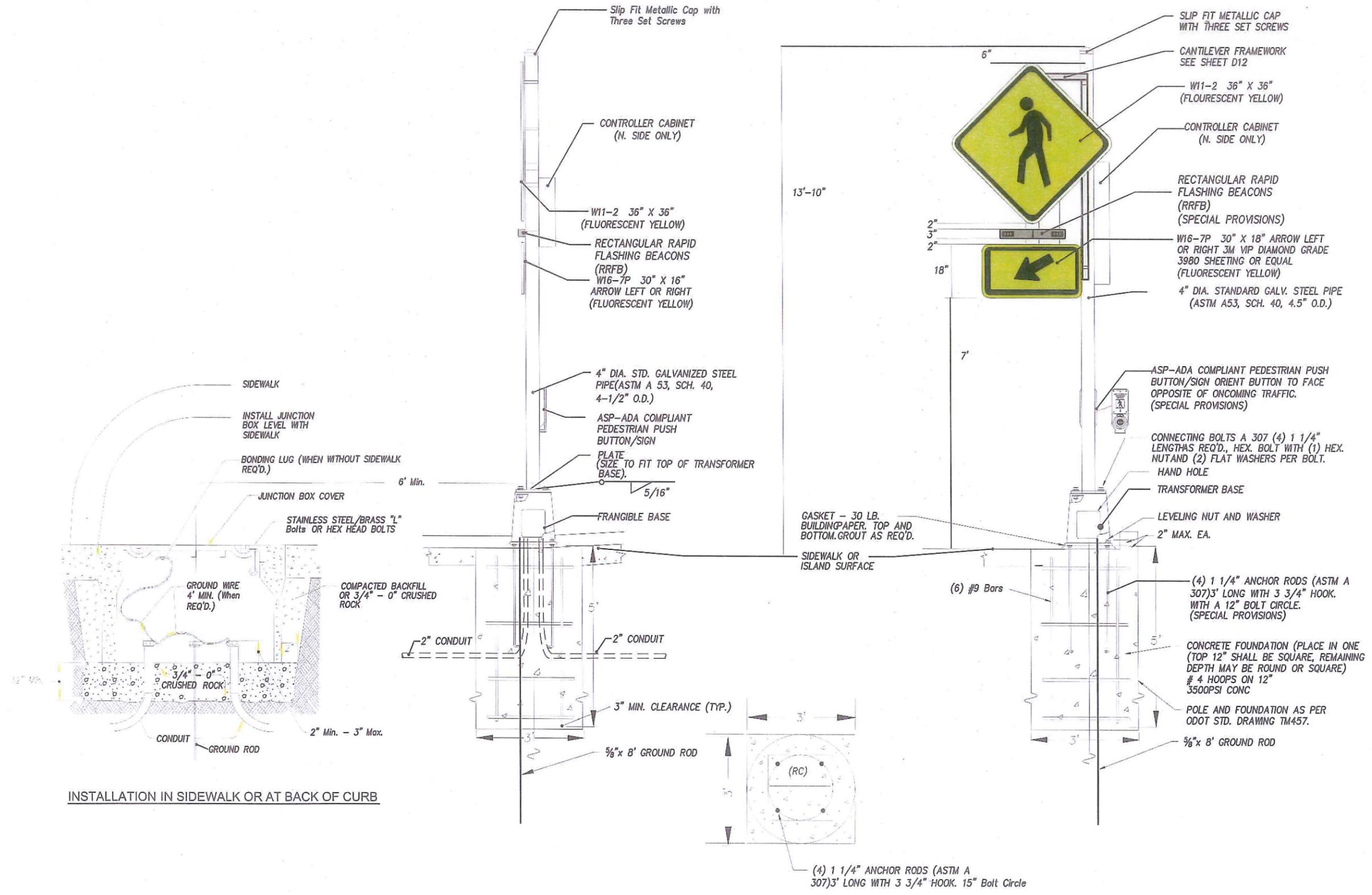
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INSTALLATION IN SIDEWALK OR AT BACK OF CURB

N.&S. PED POLE DETAIL

Traffic Section Approved

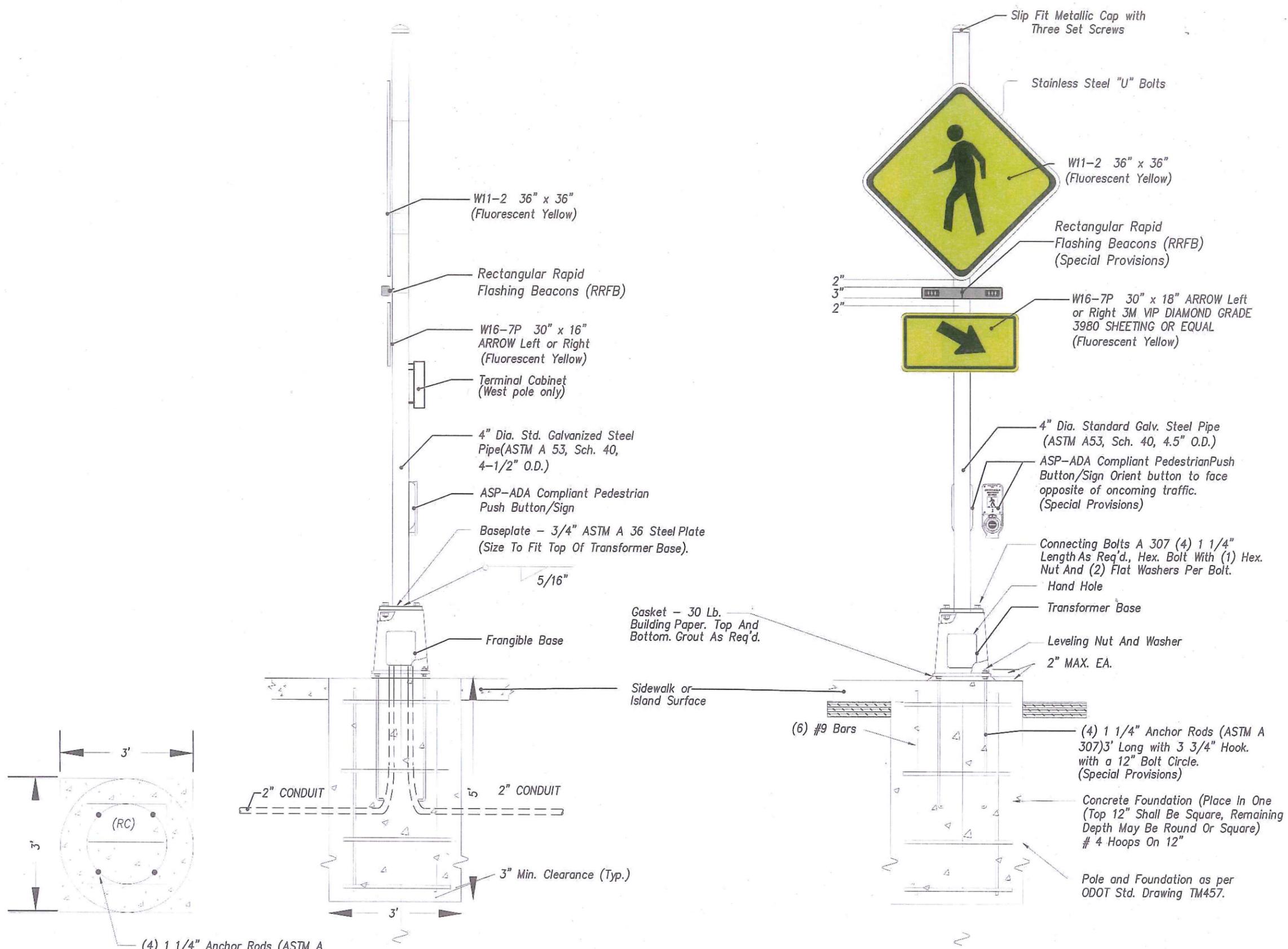
TRS 18880



EXPIRES 12-31-17

SHEET

D1



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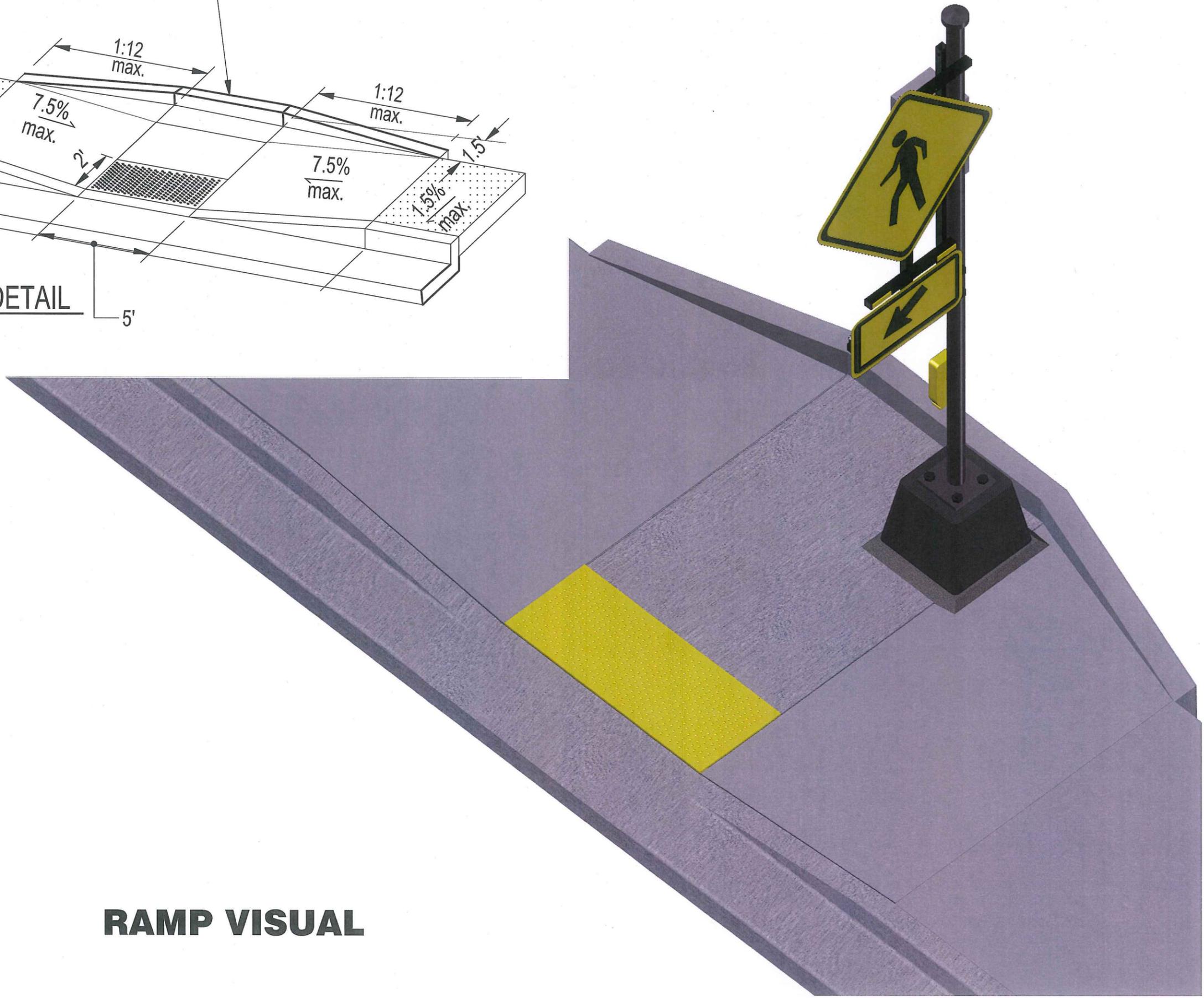
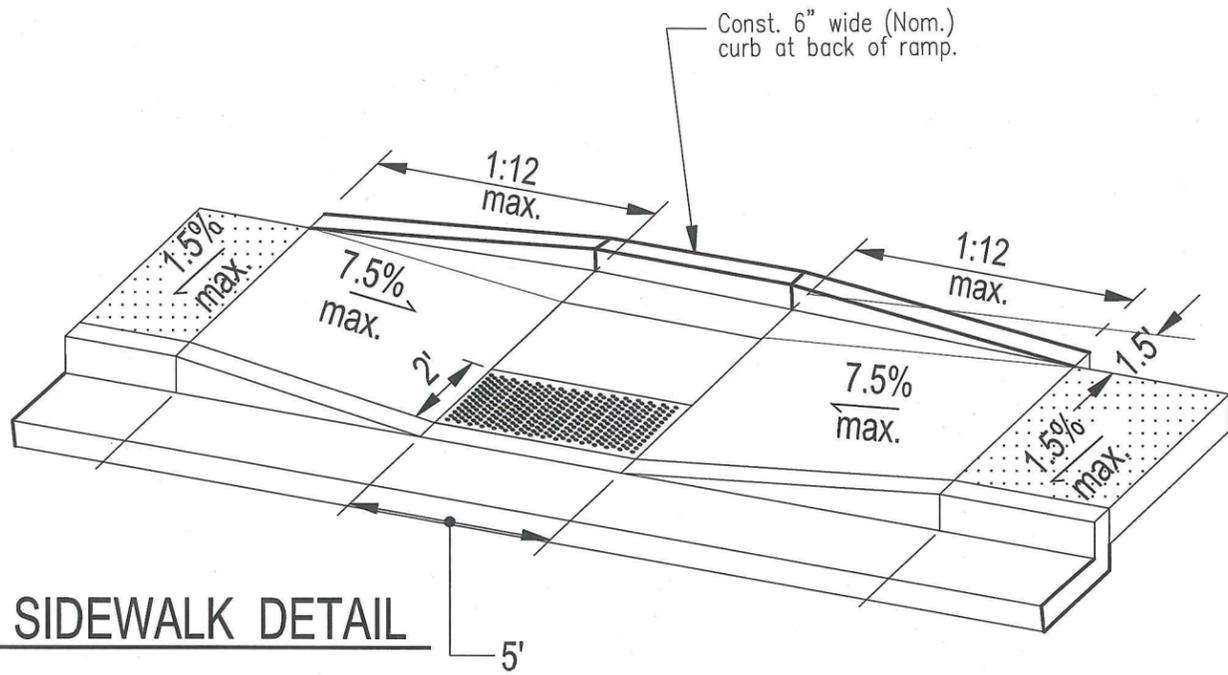
Traffic Section Approved
 TRS 18881



EXPIRES 12-31-17

SHEET
 D2

ISLAND PED POLE DETAIL



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EXPIRATION DATE: 12/31/16

No.	Description/Issue	Date

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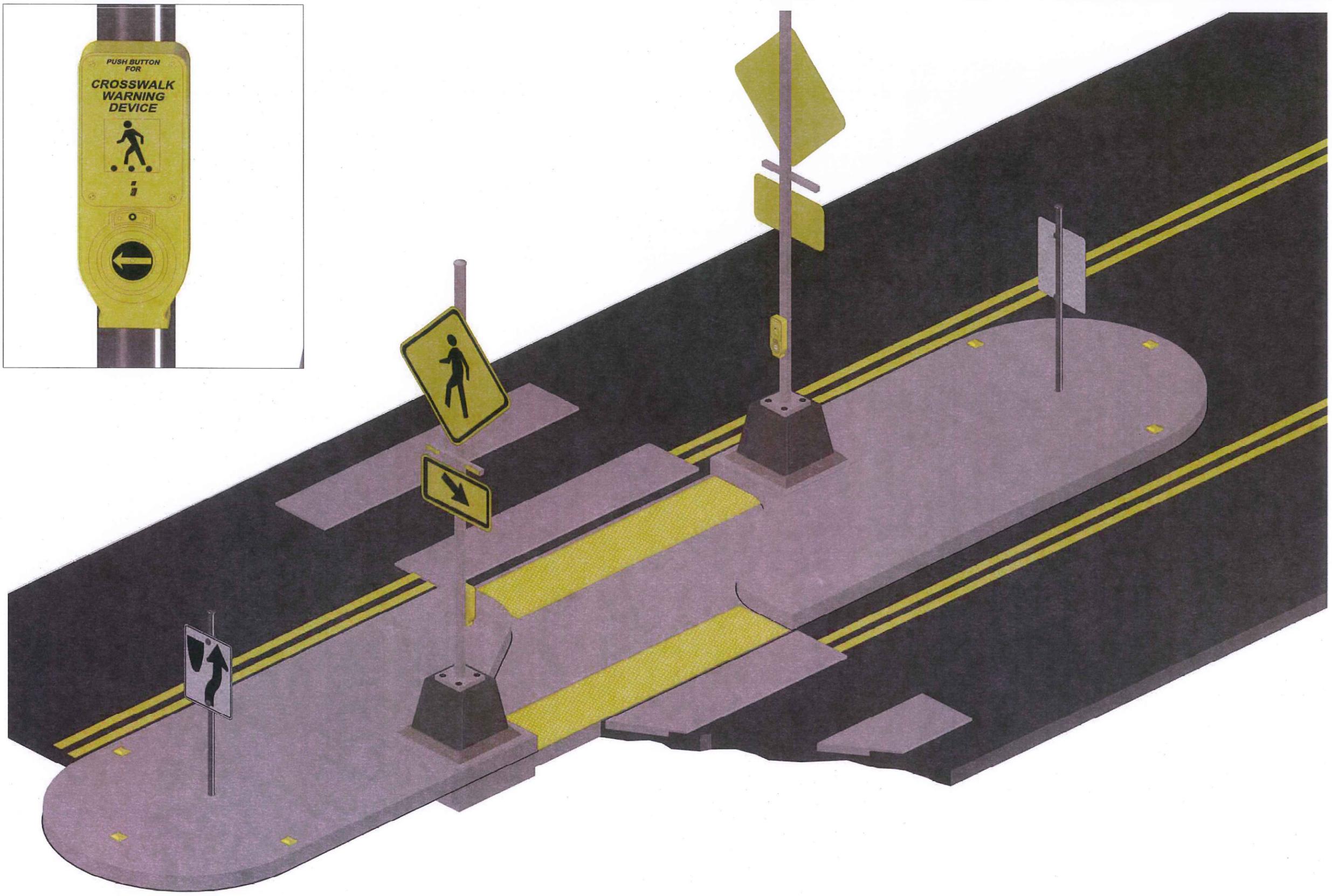
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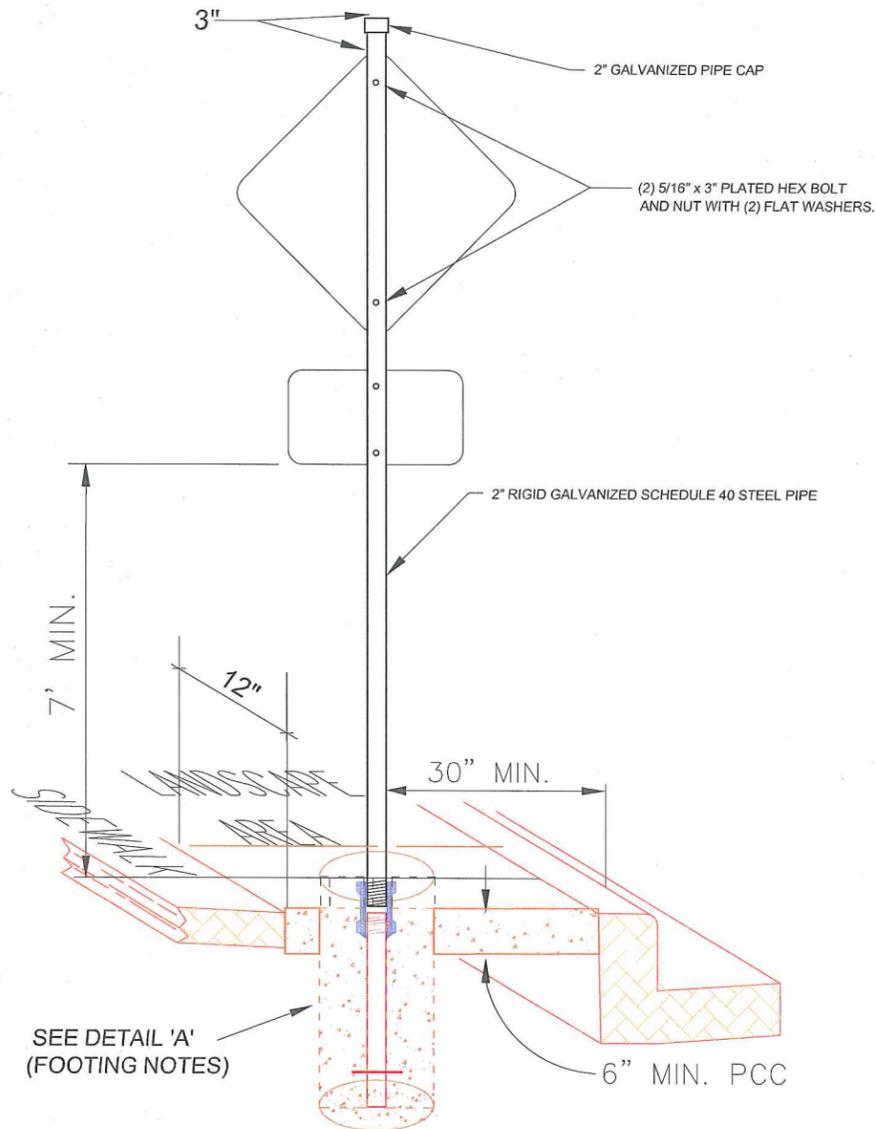
EXPIRES 12-31-17

SHEET

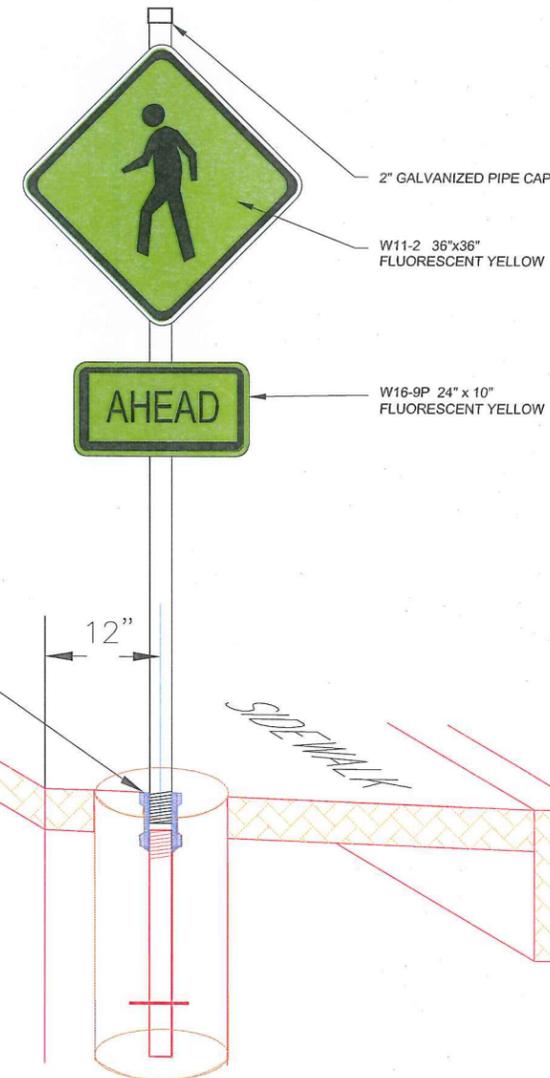
D5



ISLAND PED VISUAL



SETBACK SIDEWALK
SIGN INSTALLATION



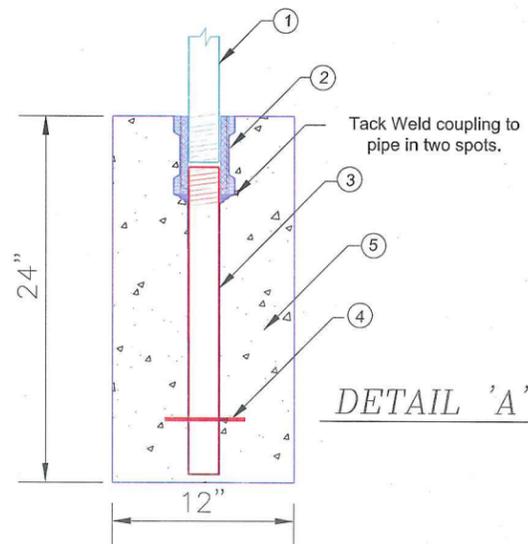
CURBSIDE SIDEWALK
INSTALLATION

MALLEABLE BASE COUPLING FLUSH
WITH SIDEWALK GRADE LEVEL WITH
2' PIPE FOR VERTICAL PLUMB

NOTE: BEFORE INSTALLING A SIGN BASE
CONTACT CITY TRANSPORTATION DIVISION
TO REQUEST A MARKED SIGN LOCATION AND
HEIGHT.
CALL - (541) 726-3753

FOOTING INSTALLATION NOTES

- ① INSTALL 2" SCHEDULE 40 RIGID GALVANIZED STEEL PIPE.
- ② INSTALL 2" THREADED, GALVANIZED, MALLEABLE IRON PIPE COUPLING, (CLASS 150) WITH TOP SET FLUSH AT FINISHED GRADE.
- ③ INSTALL 2" RIGID GALVANIZED STEEL PIPE TACK WELDED TO COUPLING TO PREVENT TURNING.
- ④ INSTALL 1/4" X 8" STEEL PIN (Spike) THROUGH STEEL PIPE
- ⑤ INSTALL SIGN BASE ASSEMBLY IN CLASS 3300 PORTLAND CONCRETE USING 2' MIN. GUIDE ROD TO INSURE SIGN POST WILL BE VERTICAL.



DETAIL 'A'

NOTE: DRAWING NOT TO SCALE
ALL EYEBOLTS, BOLTS, NUTS, AND WASHERS SHALL BE GALV.
STEEL UNLESS NOTED OTHERWISE, ALL SET SCREWS SHALL BE
MIN. DIA. 1/4" STAINLESS STEEL WITH SQUARE OR HEX HEADS.
ALL SPANWIRE HANGERS AND PLUMBIZERS SHALL BE CAST BRONZE.

No.	Revision/Issue	Date

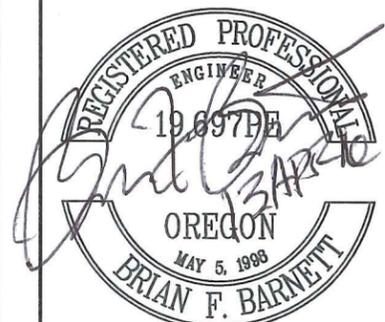
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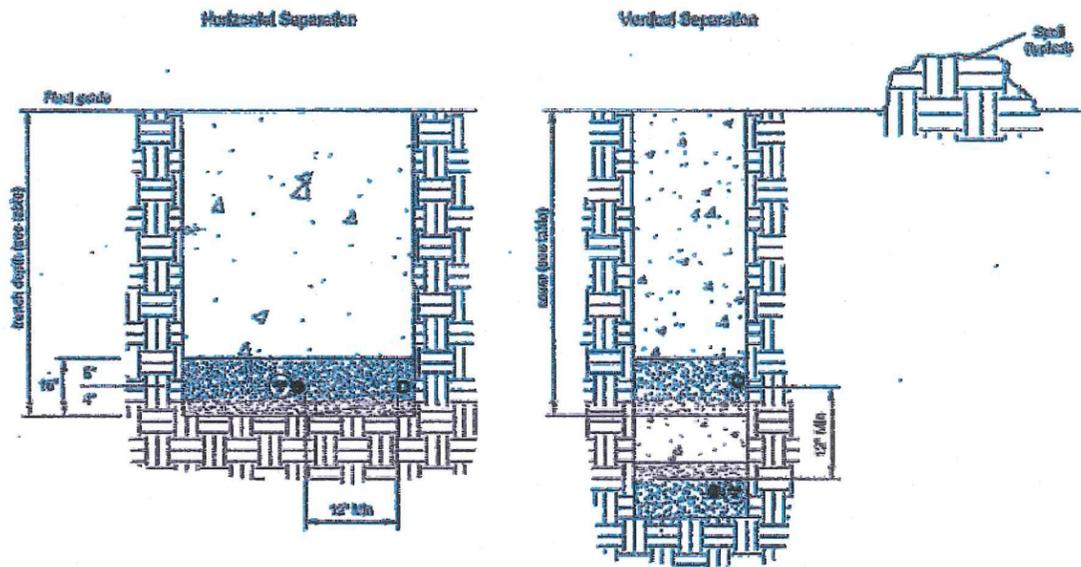
EXPIRES 12-31-17

SHEET

D6

SUB TRENCHING DETAILS

Joint Use Trench

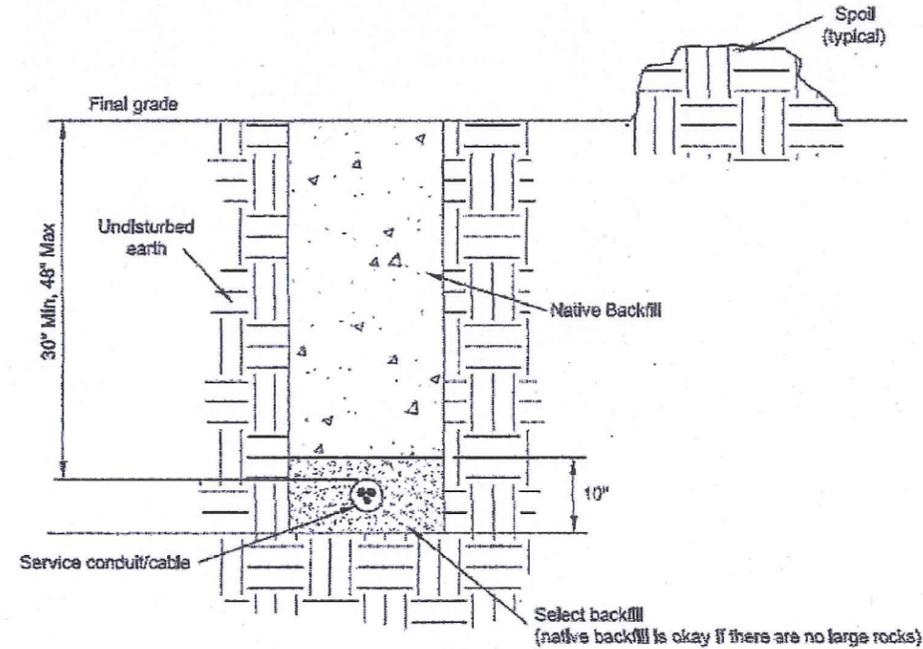


LEGEND

- Other Electric Utilities (Telephone, Gas, TV)
- Secondary/Service (Conduit/Cable)
- Primary (Conduit/Cable)
- Native Backfill
- Select Backfill
- Undisturbed Earth

Conduit/Cable	Minimum Cover	Max. Burial Depth
Primary	36"	48"
Secondary/Service	36"	48"

Power Cable Trench (Only)



LEGEND

- Service (Conduit/Cable)
- Native Backfill
- Select Backfill
- Undisturbed Earth

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EXPIRATION DATE: 12/31/16

STUB SPRINGFIELD UTILITY BOARD
ENGINEERING STANDARD DISTRIBUTION
PROCEDURES & POLICIES
TRENCHING DETAILS

DATE: 1/20/11 STD: 1/CHK: JAP
3/25/2010 1 SK 1 SK 1 EH 1 TJ

STANDARD NUMBER
ESD 0074
Page 2 of 4

STUB SPRINGFIELD UTILITY BOARD
ENGINEERING STANDARD DISTRIBUTION
PROCEDURES & POLICIES
TRENCHING DETAILS

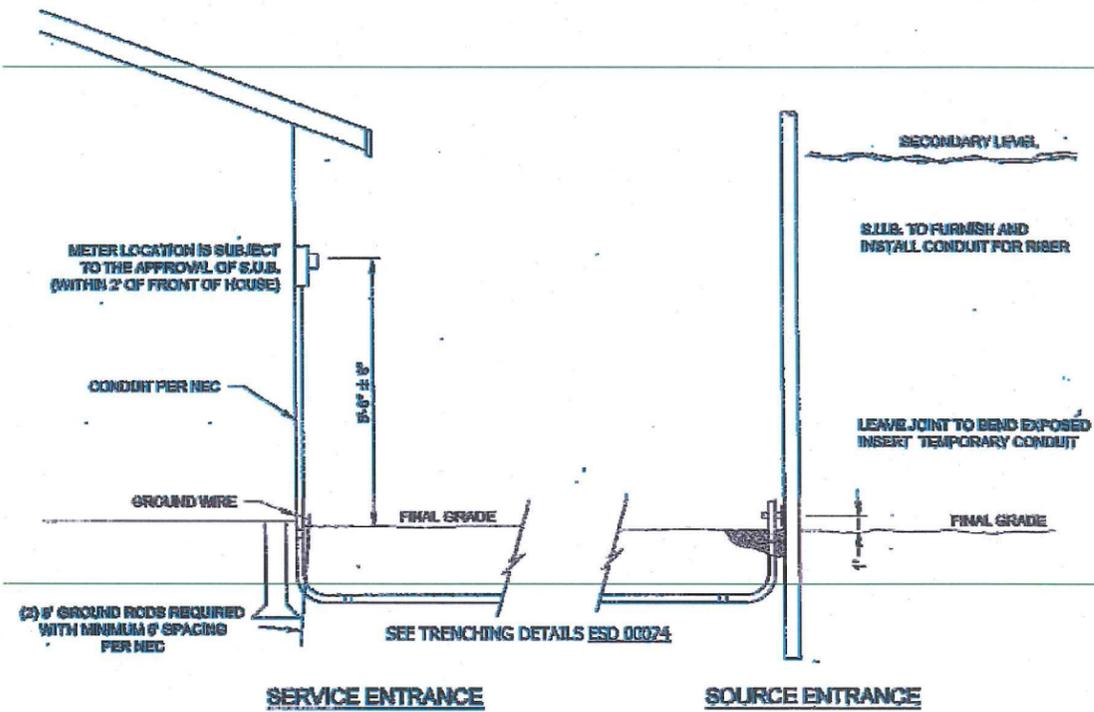
DATE: 1/20/11 STD: 1/CHK: JAP
3/25/2010 1 SK 1 SK 1 EH 1 TJ

STANDARD NUMBER
ESD 0074
Page 1 of 4

SHEET

D7

SUB TRENCHING DETAILS



CUSTOMER TO PROVIDE:

1. All conduit from the base of the pole to the meter base. Conduit shall be Schedule 40 PVC conduit, 2" minimum, no half sizes.
2. Bends must be Schedule 40 PVC long sweep, 36" radius, no more than a total of 270 degrees in the run.
3. A minimum of 30 inches of ground cover over conduit is required. Call the Electric Department at 541-726-2395 to arrange for a trench inspection. Do not backfill until trench is approved. An inspection sticker will be placed on the conduit at the service entrance for verification of inspection.
4. Construct the conduit, to the SUB supplied bracket on the pole, as far out on the bracket as possible, or as designated by SUB. Attach a temporary piece of conduit to the bracket to assure alignment. Leave the joint exposed and do not glue the joint.
5. Payment of required Development/Redevelopment Charges (DRC's).
6. Service conductor, as specified by the NEC, of sufficient length to make terminations at the meter base and at the secondary level at the pole. Spliced conductor will not be allowed. Call the Electric Department at 541-726-2395 to arrange for assistance pulling in the conductor.
7. Provide current billing information prior to energization.

SUB	SPRINGFIELD UTILITY BOARD	DATE	DWN	CHK	APP
	ELECTRIC ENGINEERING AND CONSTRUCTION STANDARDS	12/26/13	TGJ	SK	RLM
	UNDERGROUND SERVICE FED FROM OVERHEAD	STANDARD NUMBER ESD 0106			
Page 1 of 2					

No.	Revision/Issue	Date

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EXPIRATION DATE: 12/31/16

SHEET
D8

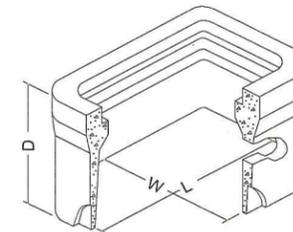
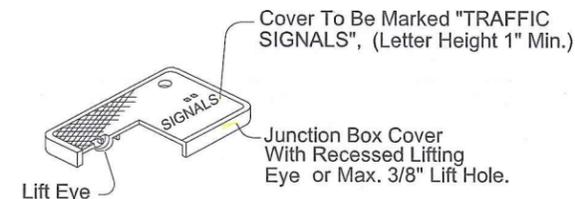
TRENCHING NOTES

- IF LOCATING EQUIPMENT IN SIDEWALK, SAWCUT AT WALK TO NEAREST PANEL NEAR POLE, CONSTRUCT 2" SCH 40 PVC CONDUIT MIN. 30" DEPTH. SEE SHEET P2 ELECTRICAL PLAN. SEE DETAIL SHEETS D7 & D8 FOR SPRINGFIELD UTILITY BOARD (S.U.B.) REQUIREMENTS. COORDINATE WITH S.U.B. FOR POWER CONNECTION AND SPECIFIC REQUIREMENTS PRIOR TO CONSTRUCTION. UTILITY LOCATES/ CONFLICTS MUST BE DETERMINED PRIOR TO CONSTRUCTION.
- CONSTRUCT 2" SCH 40 PVC CONDUIT BORE AND PLACE CONDUIT & SPARE CONDUIT FROM BACK OF WALK TO BACK OF WALK AT STREET CROSSING. SEE SHEET P2 ELECTRICAL PLAN AND D9 DETAILS.

GENERAL NOTES

- Type "A" cabinet has a top hinged lift cover with provision to hold cover in open position.
- Type "B" cabinet has cover hinged on left or right side with catch and handle.
- All enclosures shown on this dwg. shall bear a U. L. label reading: "CUTOUT BOX" (Raintight)
- Cabinets formed from 10 Gage thick sheet metal. Hot dip galvanized after fabrication or 12 gage type 304 or 306 stainless steel.
- Dimensions are based on the following frame sizes:
 - "TEB" for 240 v. rating
 - "TED" for 277, 480 and 600 v. rating
- All internal wiring, except field wires, shall be done by a U.L. listed facility.
- Deadfronts may be fabricated from code thickness galvanized sheet metal or type 304 or 316 stainless steel.
- For galvanized sheet metal deadfronts:
 - Cut edges shall be treated with zinc-rich paint.
 - They shall be primed with vinyl wash primer and finished with exterior polyurethane enamel.
 - The color shall be similar to that of OSHD formula no. 15-74 aluminum.
- Install copper buss bars for main and branch circuits.
- Provide 2 (min.) locator studs near top for dead fronts, and handle (finger) on dead front near bottom.

CB = Circuit Breaker
 C = Contactor
 N = Neutral Block (copper)
 TS = Test Switch
 PCB = Photocell Circuit Breaker

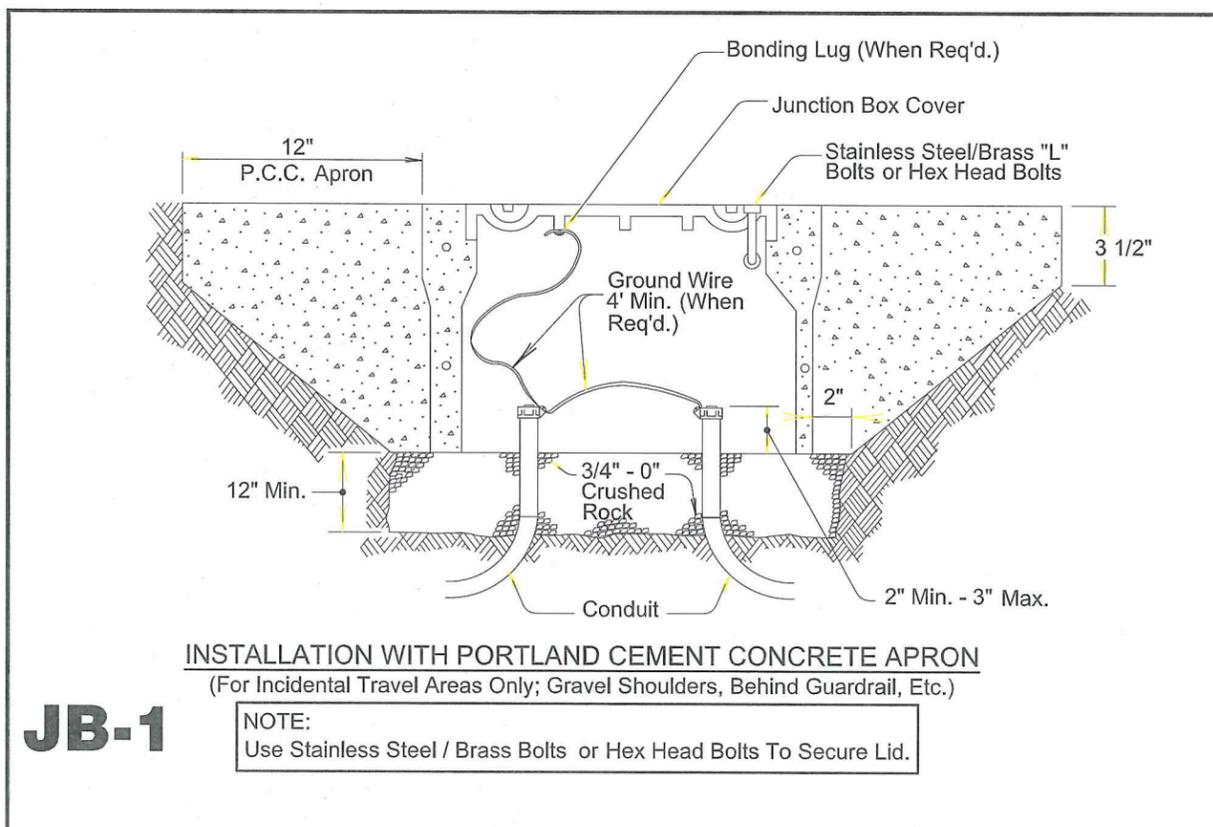
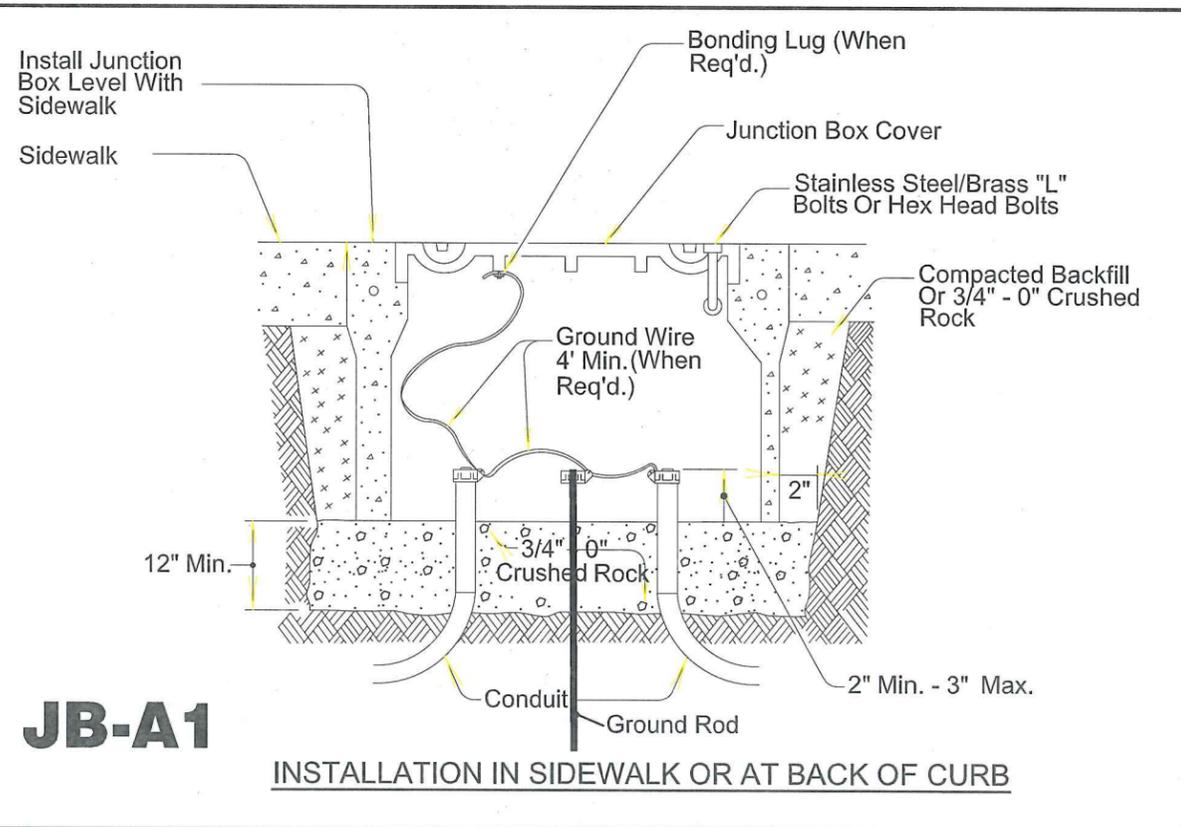


JUNCTION BOX

Not To Be Used In Travel Lanes, Shoulders Or Areas Exposed To Traffic. For Location And Junction Box Dimensions, See Plans.

Type	L	W	D	Type	L	W	D
JB1	17"	10"	12"	HH-1	24"	30"	24"
JB2	22"	12"	12"	HH-2	30"	48"	24"
JB3	30"	17"	12"	HH-3	30"	48"	36"

JUNCTION BOX/ HAND HOLE DIMENSION TABLE



No. _____ Revision/Issue _____ Date _____

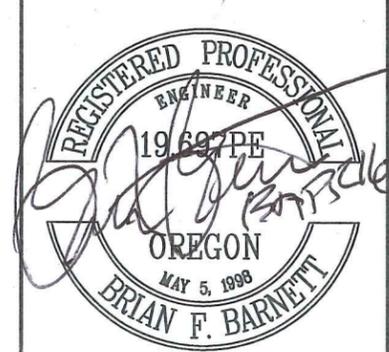
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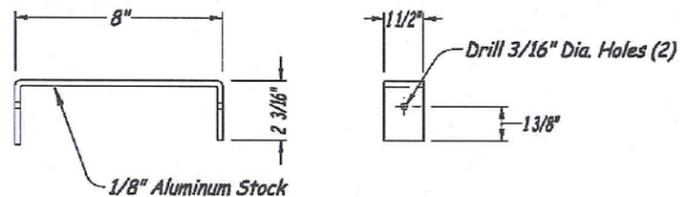
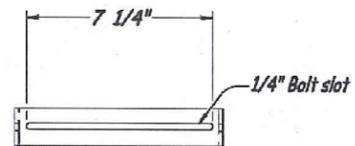
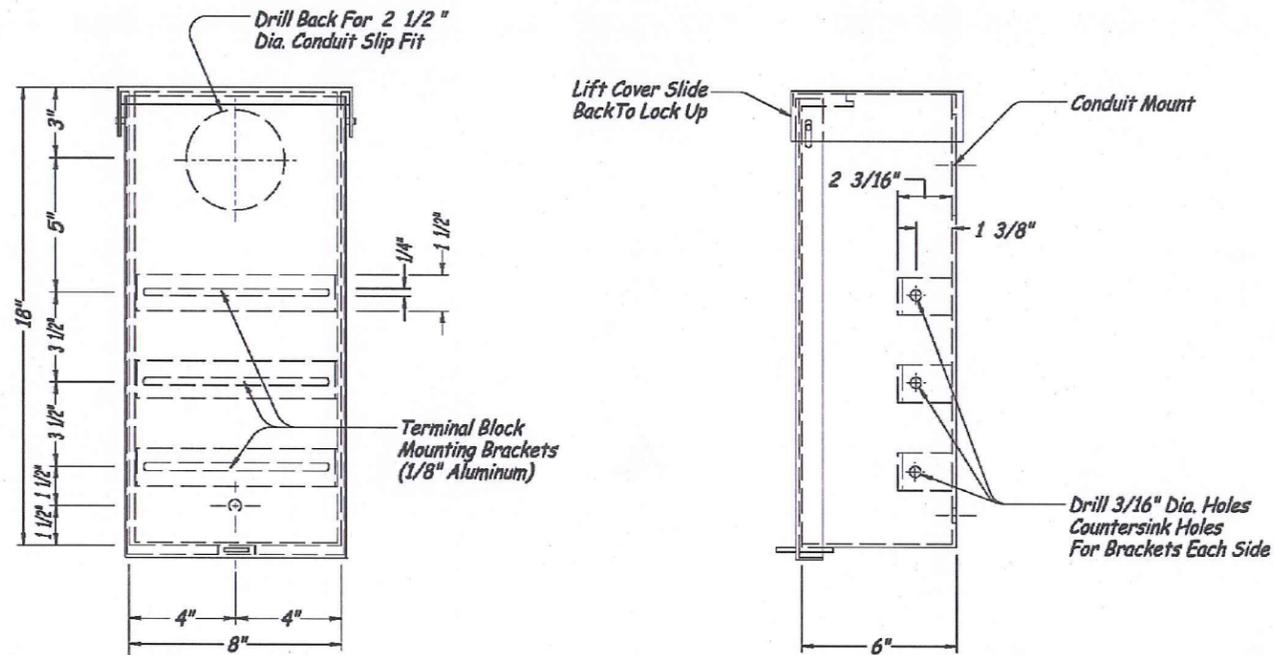
PROJECT NO: P21117
 48TH ST. PED CROSSING

City of Springfield

DEVELOPMENT & PUBLIC WORKS / ENGINEERING
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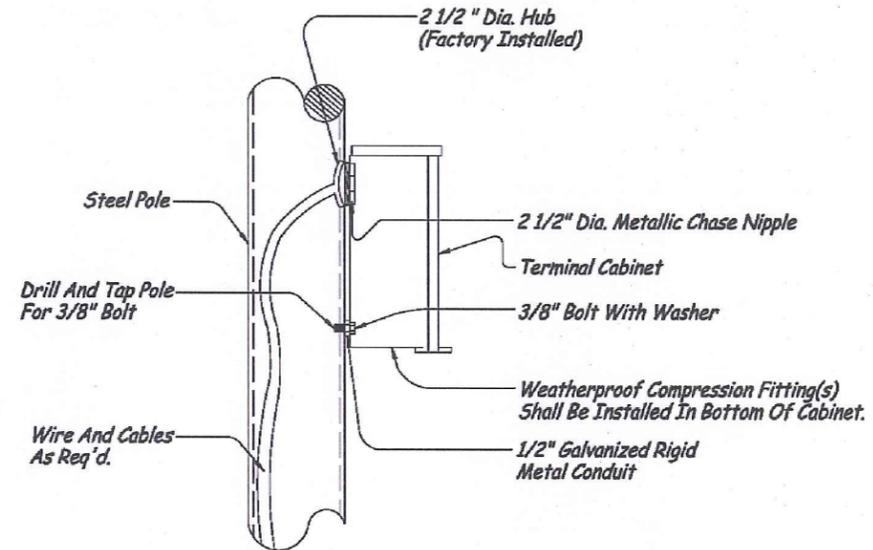
TERMINAL CABINET DETAIL



TERMINAL BLOCK MOUNTING BRACKET
WEATHERPROOF TERMINAL CABINET

NOTE:

All Bolts, Nuts And Washers Shall Be Stainless Steel Unless Noted Otherwise.



INSTALLATION DETAIL
(Terminal Cabinet)

NOTE:

When Installing On Wood Pole Use Two 3/8" Dia. x 4" Lag Screws With Washers

CALC. BOOK NO. <u>N/A</u>	BASELINE REPORT DATE <u>07-01-14</u>
ACCOMPANIED BY BASELINE REPORT	NOTE: All material and workmanship shall be in accordance with the current Oregon Standard Specifications
The selection and use of this Standard Drawing, while designed in accordance with generally accepted engineering principles and practices, is the sole responsibility of the user and should not be used without consulting a Registered Professional Engineer.	OREGON STANDARD DRAWINGS
	TERMINAL CABINET DETAIL
	2015
	REVISIONS
DATE	DESCRIPTION

December 1, 2015 - May 31, 2016

TM488

No.	Revision/Issue	Date

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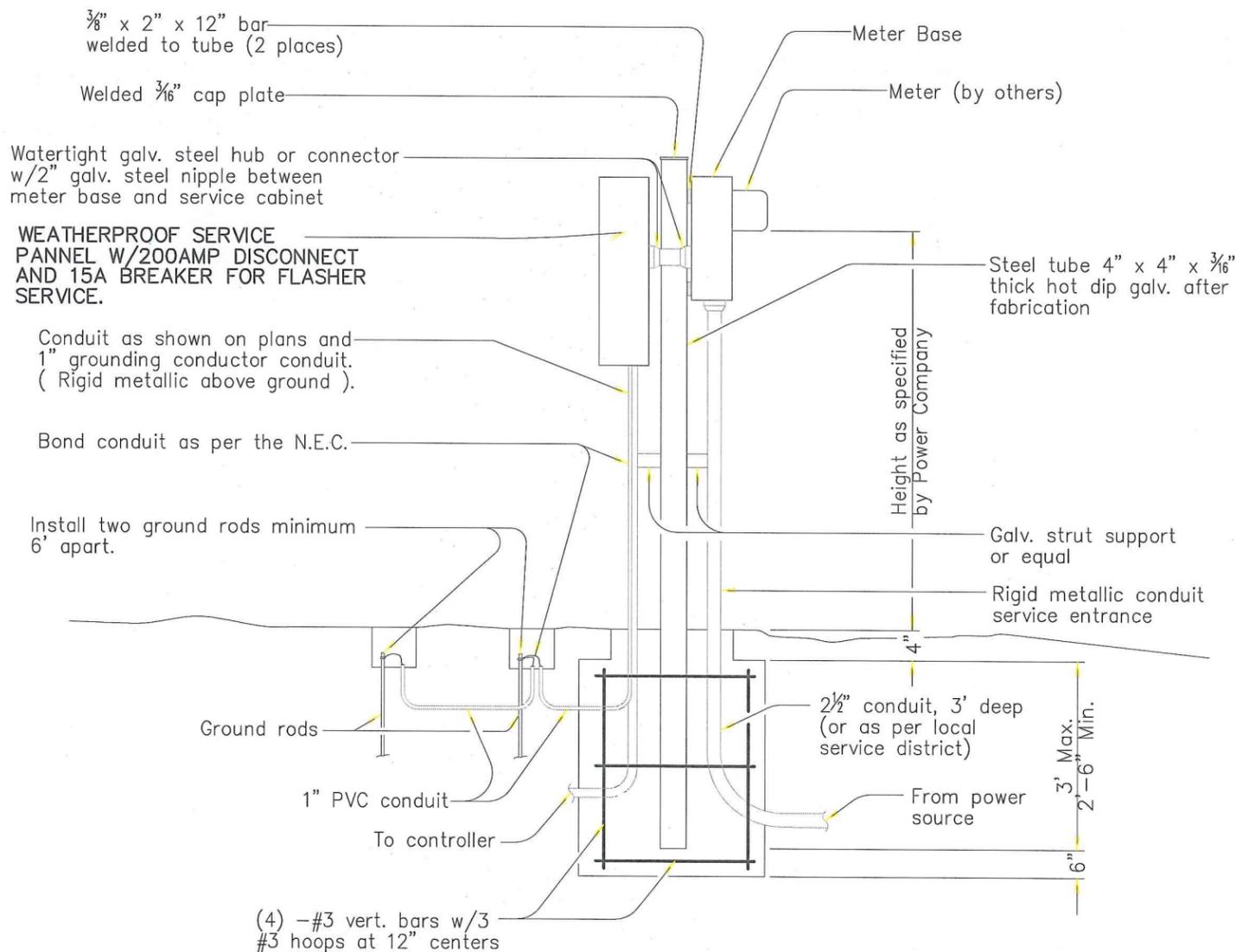
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EXPIRES 12-31-17

SHEET

D10



$\frac{3}{8}$ " x 2" x 12" bar welded to tube (2 places)

Welded $\frac{3}{16}$ " cap plate

Watertight galv. steel hub or connector w/2" galv. steel nipple between meter base and service cabinet

WEATHERPROOF SERVICE PANNEL W/200AMP DISCONNECT AND 15A BREAKER FOR FLASHER SERVICE.

Conduit as shown on plans and 1" grounding conductor conduit. (Rigid metallic above ground).

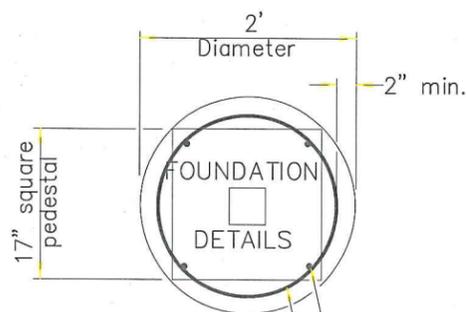
Bond conduit as per the N.E.C.

Install two ground rods minimum 6' apart.

Ground rods

1" PVC conduit To controller

(4) - #3 vert. bars w/3 #3 hoops at 12" centers



(4) - #3 vert. bars w/3 #3 hoops at 12" centers

SERVICE PANEL/METER BASE

No.	Revision/ Issue	Date
DRAWN: RBK		

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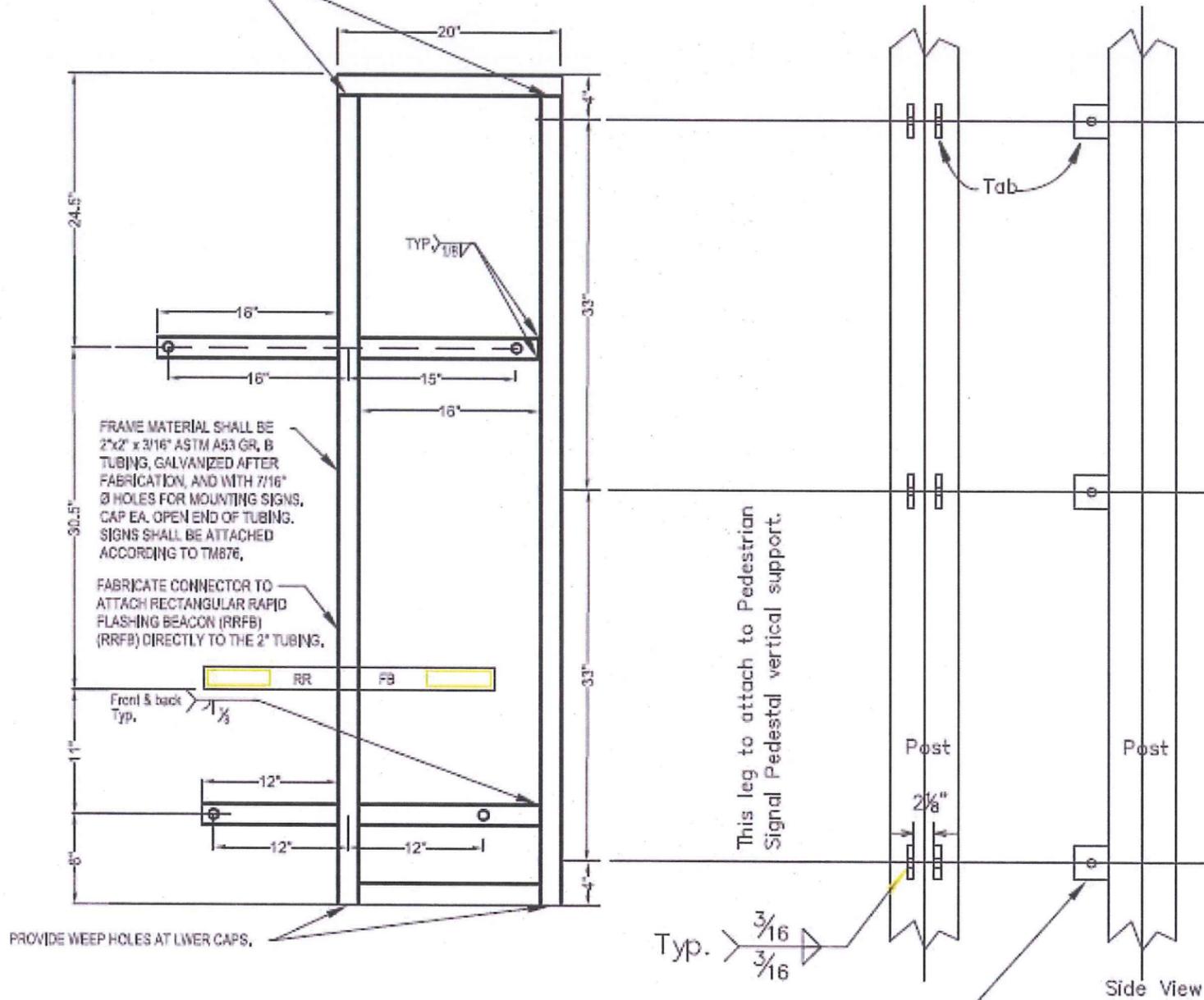
EXPIRES 12-31-17

SHEET

D11

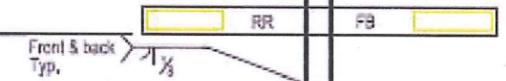
DRILL MIN. 1" Ø HOLE TO THREAD WIRE THROUGH FRAME.

SIGN MOUNTING DETAILS



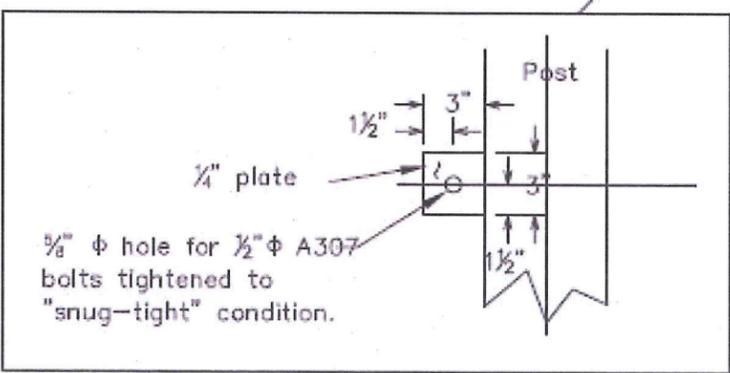
FRAME MATERIAL SHALL BE 2"x2" x 3/16" ASTM A53 GR. B TUBING, GALVANIZED AFTER FABRICATION, AND WITH 7/16" Ø HOLES FOR MOUNTING SIGNS, CAP EA. OPEN END OF TUBING. SIGNS SHALL BE ATTACHED ACCORDING TO TM876.

FABRICATE CONNECTOR TO ATTACH RECTANGULAR RAPID FLASHING BEACON (RRFB) (RRFB) DIRECTLY TO THE 2" TUBING.



PROVIDE WEEP HOLES AT LOWER CAPS.

SIDE MOUNT DETAILS



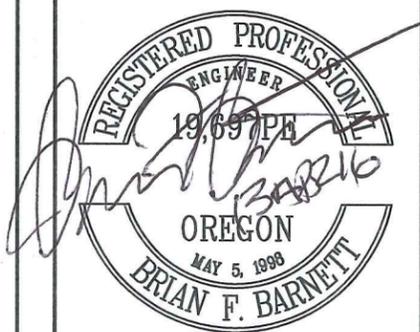
RRFB Side Mount Detail

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EXPIRES 12-31-17

SHEET

D12

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:

- 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.).
- 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.
- C. An inspection of the erosion control measures by City LDAP staff is required prior to any ground disturbance on the site.
- 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.
- 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.
- 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.
- 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.
- 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).
- 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.
- 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 & mulching with straw, bark, compost, or plastic covering, etc.).
- 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.
- 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.
- 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.
- 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
- 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. 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.
- 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.
- 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.
- S. Where straw mulch for temporary erosion control is required, it shall be applied at a minimum thickness of two to three inches.
- 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).

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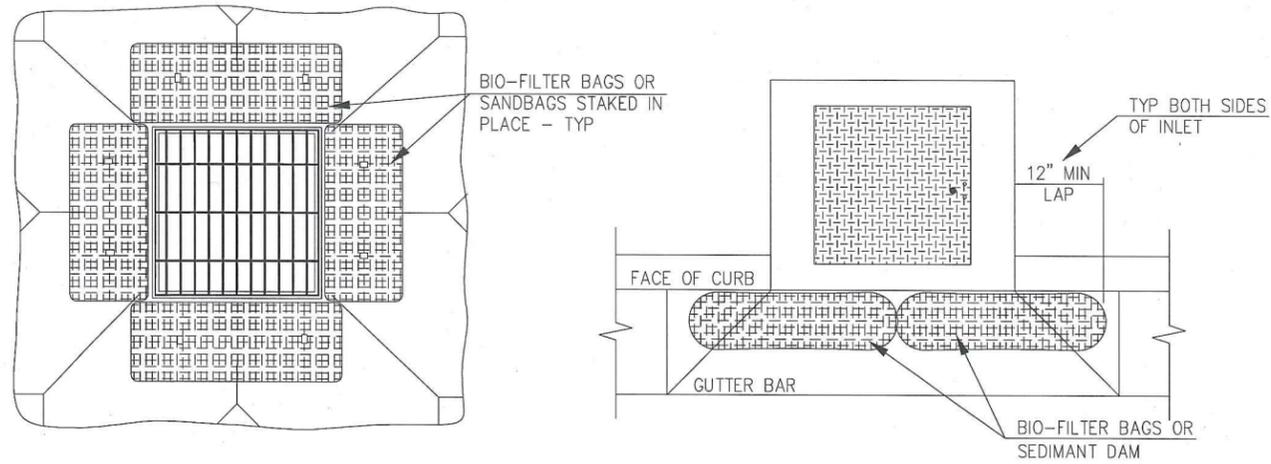
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EXPIRATION DATE: 12/31/16



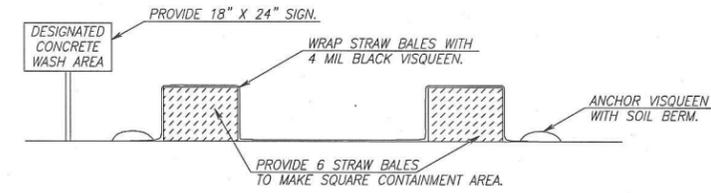
NOTES

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.

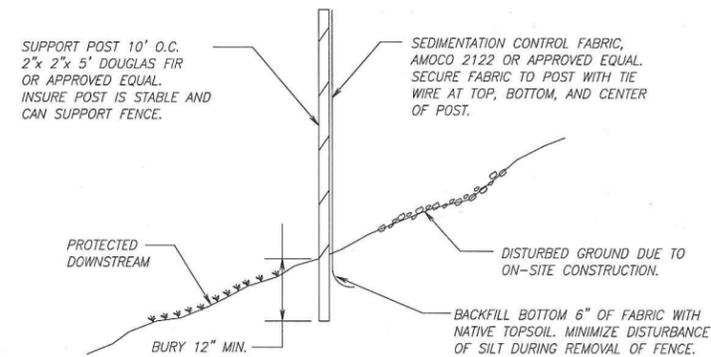
1

DRAINAGE INLET STRUCTURE PROTECTION

NO SCALE



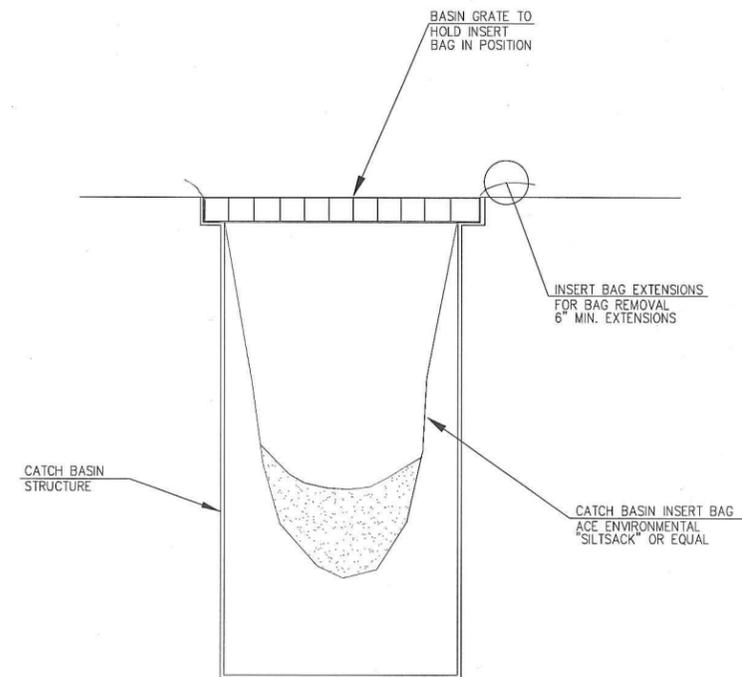
CONCRETE WASH AREA DETAIL
N.T.S.



SEDIMENTATION CONTROL FABRIC TYPE SILT FENCE
N.T.S.



INLET PROTECTION



1

CATCH BASIN INSERT BAG

NO SCALE

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SHEET

E2