

Mayor
Honorable Tom Ellis



City Manager
Jason A. Tuck, ICMA-CM

Date: September 30, 2020
To: All Interested Parties
From: City of Happy Valley, Engineering Division
RE: Downloading Solicitations Disclaimer

The City of Happy Valley offers certain solicitation documents, including Invitations to Bid and Requests for Proposal, online for downloading. The City requires each prospective bidder/proposer downloading these documents to follow the specific requirements detailed below. If a potential bidder or proposer does not comply with these requirements the bidder/proposer risks the possibility of not receiving a complete solicitation packet and may be deemed a non-responsive bidder.

Please note the solicitation available for download is the original document released to the public. All prospective bidders/or proposers are responsible for downloading any and all addendums or amendments listed along with the solicitation packet on the City's website. Once a potential bidder or proposer has completed, signed, and returned to the City the attached "RETURN RECEIPT" form, the City will automatically forward any and all subsequent addendums, amendments, or other documents relevant to the solicitation.

Disclaimer

The recipient of any downloaded documents from this website shall be responsible for completing and returning to the City of Happy Valley's Engineering Division, the attached "RETURN RECEIPT" form. It is imperative that it is returned as soon as possible. By doing so, the recipient will allow the City of Happy Valley to send any additional documentation, including addendums, amendments, and other information, which may be issued relative to a particular document. The City takes no responsibility for informing recipients of changes to original documents if the attached "RETURN RECEIPT" form has not been sent to the Engineering Division representative listed on the form. The recipient shall be responsible for the accuracy of the information on the form submitted.

Any unidentified modifications to the original document issued by the City shall be null and void. In those instances where modifications are unidentified, the original document issued by the City of Happy Valley shall take precedence. The recipient of any downloaded documents is responsible for clearly identifying any and all changes or modifications to document upon submission to the City.

16000 SE Misty Drive, Happy Valley, Oregon 97086-4288
Telephone: (503) 783-3800 Fax: (503) 658-5174
happyvalleyor.gov

Preserving and enhancing the safety, livability and character of our community



16000 SE Misty Drive
Happy Valley, OR 97086
503.783.3800 phone

**ACKNOWLEDGEMENT OF RECEIPT
RETURN RECEIPT FORM**

Project Title: 2020 SUPERBLOCK PEDESTRIAN IMPROVEMENTS PROJECT - PHASE II (CIP-05-20)

Firm Name: _____

Address: _____
Street Address City and State Zip

Phone: _____ Fax: _____

Contact Name: _____ Email: _____

I would like to receive any subsequent addenda via email.

I have read and thoroughly understand the disclaimer, instructions, and all other conditions related to downloading solicitation documents from the City of Happy Valley's web page.

I hereby attest that this information, to the best of my knowledge, is valid and correct.

Signature: _____ Date: _____

Next Step: When you have completed this form, please send it to the attention of Karleen Aichele at the following email:

Email: karleena@happyvalleyor.gov



BID BOOKLET & CONTRACT DOCUMENTS

FOR THE

CITY OF HAPPY VALLEY

2020 SUPERBLOCK PEDESTRIAN IMPROVEMENTS PROJECT - PHASE II KING ROAD, 132ND AVENUE AND RIDGECREST ROAD (CIP-05-20)

HAPPY VALLEY, OREGON

ODOT CLASSIFICATION:

Earthwork and Drainage, Bridges and Structures, Portland Cement Concrete Paving, Pavement Markings, Signing and Miscellaneous Highway Appurtenances

SEPTEMBER 2020

ENGINEERING DIVISION
CITY OF HAPPY VALLEY CITY HALL
16000 SE MISTY DRIVE
HAPPY VALLEY, OREGON 97086
PHONE: (503) 783-3800

SCHEDULE OF BID & CONTRACT AWARD

INVITATION TO BID PUBLICATION
(WITH PLAN SET & SPECIFICATIONS)

Wednesday, September 30, 2020

LAST DATE TO PROTEST SPECIFICATIONS

Monday, October 12, 2020

BID OPENING

**Thursday, October 22, 2020
at 2:00 PM**

FIRST-TIER SUBCONTRACTOR DISCLOSURE FORM DUE

**Thursday, October 22, 2020
at 4:00 PM**

NOTICE OF INTENT TO AWARD

**WITHIN FOURTEEN (14) DAYS OF
DATE OF BID OPENING**

LAST DATE TO PROTEST AWARD

**SEVEN (7) DAYS AFTER NOTICE OF
INTENT TO AWARD**

IN PARTNERSHIP BETWEEN:



Location: 16000 SE Misty Drive
Happy Valley, OR 97086
Telephone: (503) 783-3800
Fax: (503) 658-5174
Website: Happyvalleyor.gov



Location: 6655 S.W. Hampton, Suite 210
Portland, OR 97223
Telephone: (503) 684-3478
Fax: (503) 624-8247

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INVITATION TO BID

INVITATION TO BID

Notice is hereby given that the City of Happy Valley will open sealed bids from qualified contractors for the

CITY OF HAPPY VALLEY 2020 SUPERBLOCK PEDESTRIAN IMPROVEMENTS PROJECT - PHASE II KING ROAD, 132ND AVENUE AND RIDGECREST ROAD (CIP-05-20)

ODOT CLASS OF WORK: Earthwork and Drainage, Bridges and Structures, Portland Cement Concrete Paving, Pavement Markings, Signing and Miscellaneous Highway Appurtenances

PUBLIC BID OPENING.....**Thursday, October 22, 2020 at 2:00 PM**

FIRST-TIER SUBCONTRACTOR DISCLOSURE FORM DUE.....**Thursday, October 22, 2020 at 4:00 PM**

No bids will be received or considered if submitted electronically or after the time of closing.

This project generally includes sidewalk, curb and gutter and road construction on three (3) streets King Road, 132nd Avenue and Ridgcrest Road.

On King Road, the proposed pedestrian improvements project includes construction of 1,949 linear feet of new sidewalk and curb and gutter along the south side of King Road from Melita Drive to east of Regina Court. Associated work includes demolition, hogout and roadway widening, 3,290 square yards of 2" grind with overlay including a total paving tonnage of 1,100. The project also includes roadway striping, storm drainage improvements, hydrant and water service relocation, retaining wall and fencing construction, and the installation of an arched metal culvert pedestrian bridge over Mt. Scott Creek.

On 132nd Avenue, the pedestrian improvements project includes construction of 360 linear feet of new sidewalk, curb and gutter along the east side of 132nd Avenue to the intersection of 132nd Avenue and Ridgcrest Road. Associated work includes clearing and grubbing, 1,100 cubic yards of excavation, hogout and roadway widening, 550 square yards of 2" grind with overlay including a total paving tonnage of 160 tons. The project also includes roadway striping, storm drainage improvements, water service relocation and installation and new sanitary sewer lateral construction.

On Ridgcrest Road the project includes construction of 880 linear feet of new sidewalk and curb and gutter along the south side of SE Ridgcrest Road. Associated work includes clearing and grubbing, 1,090 cubic yards of excavation (cut and fill), 2,600 cubic yards of crushed rock placement, hogout and roadway widening, 917 square yards of 2" grind with overlay with a total

paving tonnage of 305 tons. Two roadside stormwater planter facilities, are also to be installed. The project also includes roadway striping, storm drainage improvements, fencing, water service installation and new sanitary sewer lateral construction.

Construction must be completed no later than **Friday, April 2, 2021**. Once construction on the project has begun, the contractor must reach substantial completion within **160** days of commencing activity.

COVID-19 Physical Distancing Plan

Bidder must submit a work plan or written description explaining how the bidder will meet all Center for Disease Control (CDC) and Oregon Health Authority (OHA) recommendations on physical distancing and personal protective equipment to slow the spread of COVID-19. The City may request updated plans as recommendations change and actions should reflect current recommendations at the time of construction. This plan may be a word document or work plan outline how physical distancing will be met while performing work as described in the scope of work.

The City has the ability to adjust the project schedule due to state mandates.

Project and bid documents are available on the City's website <https://www.happyvalleyor.gov/>

To perform work, bidders must be prequalified with the Oregon Department of Transportation for the class of work defined above. Proof of prequalification must be submitted to the City by **4:00 PM** on the **Date of Public Bid Opening**.

Sealed bids are to be sent to **Carol Earle, P.E.**, City Engineer as shown on the schedule of bid, and may not be submitted by electronic means. All bids received by the date and time of Public Bid Opening will be opened at the City Hall address at the designated date and time noted above.

This public works contract is subject to State of Oregon prevailing rates of wage requirements, per **ORS 279C.800** through **279C.870**. The City will not receive or consider bids unless the bid contains a statement by the bidder that the bidder will comply with **ORS 279C.830**.

Bidders must be qualified in accordance with the applicable parts of **ORS279C** in order to enter into a contract with the City. No bid shall be considered unless the bidder is registered with the Oregon Construction Contractors. Bidder shall also identify whether bidder is a current resident, as defined in **ORS 279A.120**.

The City of Happy Valley may reject any and all bids that do not comply with prescribed public bidding and contracting procedures and requirements, including the requirement to demonstrate the bidder's responsibility under **ORC 279C.375(3)(b)**, Award and Execution of

Contract, and that the City of Happy Valley may reject for good cause any and all bids after finding that doing so is in the public interest.

CITY OF HAPPY VALLEY

*Economic & Community Development Department
Engineering Division*

Carol Earle, P.E.
City Engineer

NOTICE IS DATED the **30th of September, 2020**, and published as of this date on:

- Daily Journal of Commerce, Oregon website <https://djcoregon.com/>
- City of Happy Valley website <https://www.happyvalleyor.gov/>

INSTRUCTIONS TO BIDDERS

INSTRUCTIONS TO BIDDERS:

1. EXPLANATION TO BIDDERS:

Any explanation regarding the meaning or interpretation of contract documents must be requested in writing, with sufficient allowance of time for receipt of reply before the time of bid closing. Any such explanations or interpretations shall be made in the form of addenda to the documents and shall be furnished to all bidders, who shall submit all addenda with their bids. Oral explanations and interpretations made prior to the bid closing shall not be binding.

CITY OF HAPPY VALLEY 2020 SUPERBLOCK PEDESTRIAN IMPROVEMENTS PROJECT - PHASE II KING ROAD, 132ND AVENUE AND RIDGECREST ROAD (CIP-05-20)

BID CLOSING & PUBLIC BID OPENING..... Thursday, October 22, 2020 at 2:00 PM

FIRST-TIER SUBCONTRACTOR DISCLOSURE FORM DUE Thursday, October 22, 2020 at 4:00 PM

2. BIDDERS QUALIFICATIONS:

Bidders must be pre-qualified with the Oregon Department of Transportation (ODOT) in accordance with the applicable parts of **ORS 279** and **ORS 701** and matters which can in any way affect the work hereof in order to enter into a Contract with the City of Happy Valley.

Bids will only be accepted from bidders prequalified with the Oregon Department of Transportation (ODOT) for the Class of Work as described in the bid documents. Proof of pre-qualification must be submitted to the City by 4:00 PM on the Date of Public Bid Opening.

No bids for construction contracts shall be received or considered by the City unless the bidder is licensed with the Oregon Construction Contractors.

In accordance with **ORS 279C.830(2)**, the CONTRACTOR shall:

1. Have a public work bond filed with the Construction Contractors Board prior to starting work on the project, and
2. Include in every subcontract a provision requiring the subcontractor to have a public works bond filed with the Construction Contractors Board before starting work.

3. EXAMINATION OF THE CONTRACT DOCUMENTS:

Bidders should carefully examine the bid and contract documents and familiarize themselves with the work site to fully acquaint themselves with all the conditions and matters which can in any way affect the work or the cost thereof.

Each bidder shall thoroughly examine and be familiar with legal and procedural documents, general conditions, specifications, drawings plans, addenda (if any), and all other Contract Documents. The submission of a bid shall constitute an acknowledgment upon which the City may rely, that the bidder is experienced in the uses and interpretation of plans and specifications such as those included in the Contract Documents and has thoroughly examined and is familiar with the Contract Document.

The failure or neglect of a bidder to receive or examine any of the Contract Documents, perform site investigations and/or other investigations or examinations shall in no way relieve the bidder from any obligations with respect to the bid or the contract. No claim for additional compensation will be allowed which is based upon a lack of knowledge of any Contract Documents or existing site conditions.

4. CONTRACTORS RESPONSIBILITY:

It is understood that the specifications and other contract documents do not purport to control the method of performing the work, but only the requirements as to the nature of the completed work. The Contractor assumes the entire responsibility for the method of performing and installing the work. Suggestions as to the method included in the contract documents shall be deemed advisory only and the feasibility of such methods or the lack thereof shall not affect the Contractor's liability or status as an independent Contractor under this contract.

5. LAWS AND REGULATIONS:

The bidder is assumed to be familiar with all applicable Federal, State, County or City laws or regulations, which in any manner affect those engaged or employed in the work or the materials or equipment used in the proposed construction, or which in any way affect the conduct of the work, and no plea of misunderstanding will be considered on account of ignorance thereof. If the bidder shall discover any provision in these specifications, plans or contract documents which is contrary to or inconsistent with any law or regulations, he or she shall report it to the City in writing.

6. WAGE RATES:

This contract for public work is subject to **ORS 279C.800** through **279C.870**. No bid will be received or considered by the public contracting city unless the bid contains a statement by the bidder as a part of its bid that the provisions of **ORS 279C.800** through **ORS 279C.** are to be complied with. The Contractor shall pay the existing rate of wage which may be paid to workers in each trade or occupation required for such public work employed in the performance of the contract either by the Contractor or subcontractor or other person doing or contracting to do the whole or any part of the work contemplated by the contract, and such workers shall be paid not less than the specified minimum hourly rate of wage as set forth in the latest applicable edition of the Prevailing Wage Rates for Public Works in accordance with **279C.830** and as detailed in these Bid Documents.

7. BID GUARANTY:

Bid Guaranty, or Bid Security, shall be submitted with the Bid Proposal and failure to submit shall be cause for rejection of the bid. The bidder, at his or her option, shall furnish a bid bond, cashier's check or a certified check made to the City of Happy Valley for an amount equal to no less than ten (10) percent of the total amount of the bid. Security deposited by unsuccessful bidders will be returned as soon as practicable after the bid opening. Said bonds shall be in the form herein prescribed or approved substitute form and shall be the surety bonds of an incorporated surety company licensed to transact surety business in the state of Oregon and said bonds shall be in all respects satisfactory and acceptable to the City.

8. PREPARATION OF BIDS:

Bidders must submit their proposals on the proposal form attached hereto. The blank spaces in the proposal must be filled in correctly where indicated for each and every item for which a quantity is given, and the bidders must state the unit prices, typed or written in ink, in numerals. Any correction to entries made on the proposal forms shall be initialed by the person signing the proposal. In case of discrepancy between the unit prices and amounts, the unit prices will govern. Alternative bids will not be considered unless specifically called for.

Bids submitted electronically or via telegraphic or FAX methods will not be considered.

Each bidder represents that his bid is based upon the specific materials and equipment, described in these Bid Documents. Specific manufacturer names and model numbers (if any) cited in the Specifications and Special Provisions indicate the required quality and features of items. Bidders wishing to provide items by different manufacturers shall request acceptance of their proposed substitutions in accordance with the following requirements:

No substitutions will be considered unless written request has been submitted to the City Engineer for approval prior to the closing date for bids. Each such request shall include a complete description of the proposed substitute, and any other data or information necessary for a complete evaluation. Substitutions will be accepted only with the understanding that the supplier guarantees substituted material or equipment to be equal or better than that specified and meets all requirements.

Accepted substitutes will be listed in addenda mailed or delivered to each person or firm recorded by the City Engineer as having received the Bid Documents and will be available for inspection at City Hall, located at *16000 SE Misty Drive, Happy Valley, OR 97086*.

9. SPECIFICATION LIMITING COMPETITION:

Bidders may comment on any specification or requirement contained within this Bid which they feel limits competition in the selection of a bid to perform the services herein defined. Protests shall detail the reasons and any proposed changes to the specifications. Such comments shall be formal in writing and are to be addressed to:

**Carol Earle, P.E., City Engineer
Happy Valley City Hall
16000 SE Misty Drive, Happy Valley, OR 97086
(503) 783-3815**

Such comments shall be submitted no later than **4:00 PM, Seven (7) Calendar Days prior to the date of Public Bid Opening**. No comments will be accepted after that time. Any substitutions for items specified will not be accepted without prior written approval of the City Engineer.

10. PROTEST OF AWARD:

The *Notice of Intent to Award* by the City of Happy Valley shall constitute a final decision of the City to award the contract if no written protest of the award is filed with the City Engineer within **Seven (7) Calendar Days** of the *Notice of Intent to Award*. If a protest is timely filed, the *Notice of Intent to Award* is a final decision of the City only upon issuance of a written decision denying the protest and affirming the award. The *Notice of Intent to Award* and any written decision denying protest shall be sent to every bidder who provided an address.

Right to Protest. Any actual bidder who is adversely affected or aggrieved by the City's *Notice of Intent to Award* to another bidder on the same solicitation shall have **Seven (7) Calendar Days** after *Notice of Intent to Award* to submit to the City Engineer a written protest of the award. The written protest shall specify the grounds upon which the protest is based. In order to be an adversely affected or aggrieved bidder with a right to submit a written protest, a bidder must be next in line for award, i.e. the protester must claim that all higher rated bidders are ineligible for

award because they are non-responsive or non-responsible. The City will not entertain protests submitted after the time period established in this rule.

11. SUBMISSION OF BIDS:

All bids must be submitted to the City Engineer and prepared in a sealed envelope bearing on the outside the name and address of the bidder, the name of the project for which the bid is submitted, the time and date of the **Public Bid Opening**, and addressed to **Carol Earle, P.E., City Engineer** at City Hall as listed in Item 9 above.

If the bid is forwarded by mail, the sealed envelope containing the bid and marked as directed above, must be enclosed in another envelope addressed as specified above.

12. SUBCONTRACTORS:

In accordance with **ORS 279C.370**, when the contract value for a public improvement is greater than \$100,000, bidders are required to disclose information about First-Tier Subcontractors.

The First-Tier Subcontractor Disclosure Form may be submitted with the bid in the same envelope at the Bid Closing date and time. Those subcontractor lists submitted after the bid closing shall be delivered in a separate sealed envelope that clearly identifies the contents. However, the subcontractor lists MUST be submitted within two hours of the bid closing date and time.

Within two working hours of the date and time of the deadline when the bids are due to the City for a public improvement, the bidder shall submit to the City a disclosure of the first-tier subcontractors that (A) will be furnishing labor, or will be furnishing labor and materials in connection with the public improvement, and (B) will have a contract value that is equal to or greater than five percent of the total project bid or \$15,000, whichever is greater; or \$350,000, regardless of the percentage of the total project bid.

The disclosure of first-tier subcontractors shall include the name of each subcontractor, the category of work that each subcontractor will perform, and the dollar value of each subcontract. This disclosure shall be submitted on the form as provided in these Bid Documents.

The City shall consider the bid of any contractor that does not submit a subcontractor disclosure to the City prior to the date and time as noted above to be a nonresponsive bid and may not award the contract to that contractor. The city is not required to determine the accuracy or completeness of the subcontractor disclosure.

13. RECEIPT AND OPENING OF BIDS:

Bids shall be submitted prior to the time fixed in the Invitation to Bid as advertised and included with these Bid Documents. Bids received after the time so designated will be considered late bids and will be returned unopened. No responsibility will be attached to any official of the City for the premature opening of, or the failure to open, a bid not properly addressed and identified.

14. WITHDRAWAL OF BIDS:

Bids may be withdrawn at any time prior to the date and time of Bid Closing upon written or email request of the bidder. Negligence on the part of the bidder in preparing his or her bid shall not constitute a right to withdraw their bid after it has been opened.

15. PRESENCE OF BIDDERS AT OPENING:

At the time and place fixed for opening of bids, the contents of all bids will be made public for the information of all bidders and other interested parties who may be present in person or by representative.

16. BIDDERS INTERESTED IN MORE THAN ONE BID:

If more than one bid is offered by one party, or by any person or persons representing a party, all such bids shall be rejected. A party who has quoted prices to a bidder is not thereby disqualified from quoting prices to other bidders or from submitting a direct bid on his or her own behalf.

17. AWARD OF CONTRACT:

The contract will be awarded as soon as practicable to the lowest responsive, responsible bidder, price and other factors considered, provided the bid is reasonable and it is to the interest of the City. Award will be made to one bidder and one bidder only. The City reserves the right to reject any and all bids.

In determining the lowest responsible bidder, the City shall, pursuant to **ORS 279A.120** for the purposes of awarding the contract, add a percent increase on the bid of a nonresident bidder equal to the percent, if any, of the preference given to that bidder in the state in which the bidder resides. "Resident bidder" means a bidder that has paid unemployment taxes or income taxes in this state during the 12 calendar months immediately preceding submission of the bid, has a business address in this state and has stated in the bid whether the bidder is a "resident bidder". Contractor or individuals awarded a contract shall provide the City with a correct Department of the Treasury Internal Revenue Service Tax Identification Number (TIN). In the event that the TIN is incorrect or inconsistent with the Contractor's name as described in this contract, the City may

withhold taxes as required by law, or cancel or suspend further services under this contract, at the City's option, until the discrepancy is corrected.

The acceptance of a bid shall bind the successful bidder to execute the contract.

18. REJECTION OF BIDS:

The City reserves the right to reject any and all bids. Bids may be rejected if they show any alteration of form, admissions not called for, conditions or alternate bids, irregularities of any kind, or that they contain a clause in which the bidder reserves the right to acceptance or reject a contract awarded to him except as herein provided, or if they do not comply with prescribed public contracting procedures and requirements including the requirement to demonstrate the bidder's responsibility under **ORS 279C.375(3)(b)**. Bids in which the prices are obviously unbalanced may be rejected.

The City reserves the right to waive any informality in bids received when such waiver is in the interest of the City.

19. SURETY BONDS:

To guarantee the faithful performance of the contract, the successful bidder will be required to furnish a Performance Guarantee and a Payment Bond in an amount equal to the full amount of the contract as amended. Said bonds shall be in the form herein prescribed or approved substitute form and shall be the surety bonds of an incorporated surety company licensed to transact surety business in the State of Oregon and said bonds shall be in all respects satisfactory and acceptable to the City.

The Contractor also agrees that at the completion of the project and prior to receiving final acceptance by the City, the Contractor shall provide the City with a Maintenance Guarantee in the amount of 25% of the contracted amount, which covers any defects in either materials or workmanship, for a period of **two (2) years** from the date of acceptance.

20. EXECUTION OF THE CONTRACT:

The successful bidder shall within then **(10) calendar days** from the date of receiving from the City the contract prepared and ready for execution, furnish the City the corporate surety bond specified herein and enter into contract with the City. If the successful bidder fails to comply with any of the requirements herein, the City may, at its option, determine that the bidder has abandoned the contract and there upon the security accompanying this proposal shall be forfeited and the same shall become the property of the City.

21. ENVIRONMENTAL AND NATURAL RESOURCE LAWS:

In compliance with **ORS 279C.525**, lists of federal, state and local agencies of which the City has knowledge that have enacted ordinances or regulations relating to environmental pollution and the preservation of natural resources that may affect the performance of the Contract are listed in the 2018 Oregon Department of Transportation Standard Specifications for Construction, Section 00170.01.

22. CONTRACT INFORMATION FOR QUESTIONS

Questions relating to the project shall be addressed by email, certified mail or telephone:

Carol Earle, PE, City Engineer (carole@happyvalleyor.gov) or

Chris Randall, Public Works Director (chrisr@happyvalleyor.gov)

By Certified Mail:

Happy Valley City Hall
Economic & Community Development Department
Engineering Division
16000 SE Misty Drive
Happy Valley, OR 97086

By Telephone:

(503) 783-3800

BID DOCUMENTS

**BID PROPOSAL
SCHEDULE OF VALUES
FIRST-TIER SUBCONTRACTOR FORM
BID BOND**



BID PROPOSAL
CITY OF HAPPY VALLEY
2020 SUPERBLOCK PEDESTRIAN IMPROVEMENTS PROJECT - PHASE II
KING ROAD, 132ND AVENUE AND RIDGECREST ROAD (CIP-05-20)

Submitted by: _____

Address: _____

Date: _____, 2020 Phone number: _____

Federal Tax I.D. Number or Social Security Number: _____

The undersigned, as a bidder, declares that he has carefully examined the location of the worksites, that he has examined *SECTION 2 (Instruction to Bidders), Standard Specifications and Special Provisions*, and *Plans and Drawings*, and hereby proposes to furnish all materials and equipment and do all the work required to complete the project entitled **CITY OF HAPPY VALLEY 2020 SUPERBLOCK PEDESTRIAN IMPROVEMENTS PROJECT - PHASE II KING ROAD, 132ND AVENUE AND RIDGECREST ROAD (CIP-05-20)** in accordance with the said *Specifications* herein for the bid prices set forth in the "*Schedule of Bid Prices*" attached hereto and forming a part of this proposal. The bidder agrees to complete the project within the contract term.

This proposal is accompanied by a certified check, cashier's check or bid bond in the amount of 10% of the total bid.

The Bidder, by his signature below, certifies that he is qualified to perform the work and hereby represents as follows:

- a) That no Councilor, officer, agency or employee of the City of Happy Valley is personally interested directly or indirectly in this contract or the compensation to be paid hereunder, and that no representation, statement or statements, oral or in writing, of the City, its Councilors, officers, agents, or employees had induced him to enter into this contract and the papers made a part hereof by its terms.
- b) That this bid is made without connection with any person, firm or corporation making a bid for the same material, and is in all respects, fair and without collusion or fraud.
- c) I, the undersigned, certify that this bid has been arrived at independently and has been submitted without any collusion designed to limit independent bidding or competition.
- d) I, the undersigned, agree to be bound by the form of agreement and all remaining contract documents, including *Instructions to Bidders; Standard Terms and Conditions; Special Conditions; Plans and Specifications*; and all State and Federal Provisions as applicable.

- e) I, the undersigned, agree to comply with the provisions of ORS 279C.800 through ORS 279C.870, relating to Prevailing Rates of Wage requirements, as applicable.
- f) I, the undersigned, certify that the Bidder holds current licenses that businesses or services professionals operating in this state must hold in order to undertake or perform the work specified in these contract documents.
- g) I, the undersigned, certify that the Bidder has not discriminated against minority, women, or emerging small business enterprises, or a business enterprise that is owned or controlled by or that employs a disabled veteran in obtaining subcontracts.
- h) I, the undersigned, certify that the Bidder is legally qualified to contract with the City of Happy Valley.
- i) I, the undersigned, certify that the Bidder qualifies as a carrier insured employer or a self-insured employer under ORS 656.407 or has elected coverage under ORS 656.128.
- j) I, the undersigned, certify that the Bidder is covered by liability insurance and other insurance in the amount(s) required by the solicitation.
- k) Contractor shall commence no work under this contract until the Contractor and every subcontractor has a public works bond filed with the Construction Contractors Board in accordance with ORS 279C.830 and all other bonding and insurance requirements have been met and a *Notice to Proceed* has been issued.
- l) Contractor shall commence no work under this contract until all bonding and insurance requirements have been met and a *Notice to Proceed* has been issued.
- m) Upon receiving notice to proceed from the Project Manager, the Contractor shall meet with the Project Manager for a preconstruction conference at a time mutually agreed upon. At this conference, the Contractor shall furnish the Project Manager with a proposed schedule of work.
- n) In the event the Bidder is awarded the contract and shall fail to complete the work within the time frame specified, including extensions granted, liquidated damages and engineering expenses shall be paid to the City as outlined in the *Standard Specifications* for each day of delay in the completion of the work.

The Bidder further proposes to accept the following amount as full payment for the work proposed herein to complete the project and agrees that the price represents a true measure of the labor and materials required to perform the work, including all allowances for overhead and profit for each type of work called for in these Contract Documents. The total amount shall be shown in both words and figures. In case of a discrepancy, the amount shown in words shall govern.

If the Bidder is awarded a Contract on this Proposal, the surety who will provide the **Performance Guarantee** will be:

_____, whose
address is: _____

Contractor shall check if in compliance:

☐ Drug Testing Requirement, as defined in ORS 279C.505

Contractor shall check applicable box:

☐ Resident Bidder As defined in ORS 279A.120

☐ Non-Resident Bidder Resident State: _____

CONSTRUCTION CONTRACTORS REGISTRATION

No bids for construction contracts shall be received or considered by the Agency unless the bidder is licensed with the Oregon Construction Contractors Board and, if applicable, the State Landscape Contractors Board as required by ORS 671.530. The undersigned states that the bidder is now registered with the Oregon Construction Contractors Board:

Indicate Registration Number and Expiration Date: _____

Workers' Comp Insurance Company: _____

Workers' Comp Policy/Binder Number: _____

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

Name

Title

Name

Title

(If Sole Proprietor or Partnership)

In witness hereto, the undersigned has set his (its) hand this

_____ day of _____, 2020

Name of Firm

Signature of Bidder

(If Corporation)

In witness whereof, the undersigned corporation has caused this instrument to be executed by its duly authorized officers this

_____ day of _____, 2020

Name of Corporation

By

Title



**CITY OF HAPPY VALLEY 2020 SUPERBLOCK
PEDESTRIAN IMPROVEMENTS - PHASE II KING
ROAD, 132ND AVENUE AND RIDGECREST ROAD
CIP-05-20**

SCHEDULE OF VALUES

BID ITEM	ODOT #	DESCRIPTION	TOTAL QTY	UNIT	UNIT PRICE	TOTAL COST
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KING ROAD

A. Site Preparation

A.1		Mobilization	1	LS	\$	\$
A.2		Temporary Protection & Direction of Traffic	1	LS	\$	\$
A.3		Erosion and Sediment Control	1	LS	\$	\$
A.4		Saw Cut AC & Concrete	2150	LF	\$	\$
A.5		Common Excavation (Cut/Fill)	300	CY	\$	\$
A.6		Sidewalk, Driveway, Landscaping, Asphalt, Misc. Structures Demolition	1965	SY	\$	\$
A.7		Striping Removal	1	LS	\$	\$
A.8		3/4" Crushed Rock Fill	150	CY	\$	\$
A.9		Landscape Area Hydroseeding	10	SY	\$	\$
A.10		Tree Removal	33	EA	\$	\$
A.11		Sign and Mail Box Relocation	27	EA	\$	\$
A.12		Light Post Relocation - SE King Road	3	EA	\$	\$

Subtotal for Site Preparation

B. Paving & Surfacing

B.1		3/4" Minus Leveling Course (4" Deep), Includes excavation and compaction	2200	SY	\$	\$
B.2		1-1/2" Minus Crushed Rock Base (9" Deep), Includes excavation and compaction	2200	SY	\$	\$
B.3		Concrete Curb & Gutter including excavation and 4" of leveling Rock,	1949	LF	\$	\$
B.4		4" Concrete Sidewalks including excavation, 2" of leveling Rock and ADA Ramps	932	SY	\$	\$
B.5		6" Concrete Driveways, including Excavation Welded Wire Fabric and 2" Leveling Rock	500	SY	\$	\$
B.6		ADA Detectable Warning Tile	5	EA	\$	\$
B.7		1/2" Dense Mix AC Pavement, Level 2	1100	TON	\$	\$
B.8		Geotextile Fabric	2380	SY	\$	\$
B.9		Cold Plane Pavement Removal, 2" Deep	3290	SY	\$	\$
B.10		Thermoplastic Pavement Striping	1	LS	\$	\$

Subtotal for Paving & Surfacing

C. Specialties And Water

C.1		42" Black Vinyl Coated Chain Link Fencing	140	LF	\$	\$
C.2		UltraBlock Retaining Wall (Exposed Vertical Face of Wall)	600	SF	\$	\$
C.3		Arched Metal Culvert Bridge including installation, sheet piling and 40 CY Compacted Crushed Rock Backfill	1	LS	\$	\$
C.4		Existing Meter Relocation including sawcut, excavation & select backfill, meter box, saddle, corp. 10 LF of 3/4" copper service line and angled meter stop	16	EA	\$	\$
C.5		New Side Service Meter Connection, including sawcut, excavation & select backfill, meter box, saddle, corp. 10 LF of 3/4" copper service line and angled meter stop	6	EA	\$	\$

Subtotal for Specialties

D. Storm Drainage

D.1		12" Diameter HDPE Pipe, including Excavation & Select Backfill	75	LF	\$	\$
D.2		Remove Existing Catch Basins, Area Drains and Storm Line	2	EA	\$	\$
D.3		G-2 CB including Line Connections, Excavation, and Select Backfill	2	EA	\$	\$

Subtotal for Storm Drainage

SUBTOTAL FOR KING ROAD



**CITY OF HAPPY VALLEY 2020 SUPERBLOCK
PEDESTRIAN IMPROVEMENTS - PHASE II KING
ROAD, 132ND AVENUE AND RIDGECREST ROAD
CIP-05-20**

SCHEDULE OF VALUES

BID ITEM	ODOT #	DESCRIPTION	TOTAL QTY	UNIT	UNIT PRICE	TOTAL COST
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132ND AVENUE

A. Site Preparation

A.1		Mobilization	1	LS	\$	\$
A.2		Temporary Protection & Direction of Traffic	1	LS	\$	\$
A.3		Erosion and Sediment Control	1	LS	\$	\$
A.4		Saw Cut AC & Concrete	400	LF	\$	\$
A.5		Common Excavation (Cut/Fill)	1100	CY	\$	\$
A.6		Asphalt, Misc. Structures Demolition and Striping Removal	1	LS	\$	\$
A.7		3/4" Crushed Rock Fill	100	CY	\$	\$
A.8		Sloped Area Stabilization and Hydroseeding	500	SY	\$	\$
A.9		Clearing and Grubbing	1	LS	\$	\$
A.10		Sign and Mail Box Relocation	3	EA	\$	\$

Subtotal for Site Preparation

B. Paving & Surfacing

B.1		3/4" Minus Leveling Course (3" Deep), Includes excavation and compaction	375	SY	\$	\$
B.2		1-1/2" Minus Crushed Rock Base (9" Deep), Includes excavation and compaction	375	SY	\$	\$
B.3		Concrete Curb & Gutter including excavation and 4" of leveling Rock	360	LF	\$	\$
B.4		4" Concrete Sidewalks including excavation, 2" of leveling Rock and ADA Ramps	165	SY	\$	\$
B.5		6" Concrete Driveways, including excavation and Welded Wire Fabric and 2" Leveling Rock	55	SY	\$	\$
B.6		ADA Detectable Warning Tile	1	EA	\$	\$
B.7		1/2" Dense Mix AC Pavement, Level 2	160	TON	\$	\$
B.8		Geotextile Fabric	570	SY	\$	\$
B.9		Cold Plane Pavement Removal, 2" Deep	550	SY	\$	\$
B.10		Thermoplastic Pavement Striping	1	LS	\$	\$

Subtotal for Paving & Surfacing

C. Specialties And Water

C.1		Existing Meter Relocation including sawcut, excavation & select backfill, meter box, saddle, corp. 10 LF of 3/4" copper service line and angled meter stop	2	EA	\$	\$
C.2		New Side Service Double Meter Connection, including sawcut, excavation & select backfill, meter box, saddle, corp. 30 LF of 1" service line and angled meter stop	1	EA	\$	\$

Subtotal for Specialties

D. Storm Drainage

D.1		15" Diameter HDPE Pipe, including Excavation & Select Backfill	395	LF	\$	\$
D.2		Remove Existing Catch Basins and Storm Line	2	EA	\$	\$
D.3		G-2 CB including 10 LF 12" HDPE Pipe, Line Connections, Excavation, and Select Backfill	2	EA	\$	\$
D.4		48-In. Storm Manhole, including Existing Line connections, Excavation and Select Backfill	2	EA	\$	\$

Subtotal for Storm Drainage

E. Sanitary Sewer

E.1		4" Dia. Sanitary Sewer Connection to existing stub per Detail, including locating test pits	2	EA	\$	\$
E.2		4" Dia. Sanitary Sewer Connection to existing Main per Detail, including locating test pits, 40 feet lateral pipe and stub up per detail.	1	EA	\$	\$

Subtotal for Sanitary Sewer

SUBTOTAL FOR 132ND AVE



**CITY OF HAPPY VALLEY 2020 SUPERBLOCK
PEDESTRIAN IMPROVEMENTS - PHASE II KING
ROAD, 132ND AVENUE AND RIDGECREST ROAD
CIP-05-20**

SCHEDULE OF VALUES

BID ITEM	ODOT #	DESCRIPTION	TOTAL QTY	UNIT	UNIT PRICE	TOTAL COST
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RIDGECREST ROAD

A. Site Preparation

A.1		Mobilization	1	LS	\$	\$
A.2		Temporary Protection & Direction of Traffic	1	LS	\$	\$
A.3		Erosion and Sediment Control	1	LS	\$	\$
A.4		Saw Cut AC & Concrete	900	LF	\$	\$
A.5		Common Excavation (Cut/Fill), Including 1' Deep Stripping	1091	CY	\$	\$
A.6		Asphalt, Misc. Structures Demolition and Striping Removal	1	LS	\$	\$
A.7		3/4" Crushed Rock Fill	2600	CY	\$	\$
A.8		Landscape Area Hydroseeding	1280	SY	\$	\$
A.9		Planter Strip and Embankment Topsoil Placement, 6" Thickness Per Detail	400	CY	\$	\$
A.10		Planterstrip Barkdust, 4" Thickness Per Detail	435	SY	\$	\$
A.11		Sign and Mail Box Relocation	2	EA	\$	\$
A.12		New Signs	3	EA	\$	\$
A.13		Clearing and Grubbing	1	LS	\$	\$

Subtotal for Site Preparation

B. Paving & Surfacing

B.1		3/4" Minus Leveling Course (3" Deep), include excavation and compaction	920	SY	\$	\$
B.2		1-1/2" Minus Crushed Rock Base (9"Deep), includes excavation and compaction	920	SY	\$	\$
B.3		Concrete Curb and Gutter including excavation 4" of leveling Rock	880	LF	\$	\$
B.4		4" Concrete Sidewalks including excavation, 2" of leveling Rock and ADA Ramps	265	SY	\$	\$
B.5		6" Concrete Driveways, including excavation and Welded Wire Fabric and 2" Leveling Rock	80	SY	\$	\$
B.6		ADA Detectable Warning Tile	1	EA	\$	\$
B.7		1/2" Dense Mix AC Pavement, Level 2	305	TON	\$	\$
B.8		Geotextile Fabric	973	SY	\$	\$
B.9		Cold Plane Pavement Removal, 2" Deep	917	SY	\$	\$
B.10		Thermoplastic Pavement Striping	1	LS	\$	\$

Subtotal for Paving & Surfacing

C. Specialties And Water

C.1		Manorblock Retaining Wall (Exposed Vertical Face of Wall)	160	SF	\$	\$
C.2		42" Black Vinyl Coated Chain Link Fencing	415	LF	\$	\$
C.3		6" Sleeved Perforated ADS Underdrain Pipe including Tees and End Caps	370	LF	\$	\$
C.4		New Side Service Double Meter Connection, including sawcut, excavation & select backfill, meter box, saddle, corp. 15 LF of 1" service line and angled meter stop	2	EA	\$	\$

Subtotal for Specialties

D. Storm Drainage

D.1		15" Diameter HDPE Pipe, including Excavation & Select Backfill	660	LF	\$	\$
D.2		G-2 CB including 10 LF 12-inch HDPE Pipe, Line Connections, Excavation, and Select Backfill	2	EA	\$	\$
D.3		48-In. Storm Manhole, including Existing Line connections, Excavation and Select Backfill	3	EA	\$	\$
D.4		Stormwater Planter Endwalls and Check Dams - Details 621 and 622	15	EA	\$	\$
D.5		Stormwater Planter Catch Basins - Detail 623	13	EA	\$	\$
D.6		Stormwater Planter Wall Thickened Curb - Detail 622	240	LF	\$	\$
D.7		Stormwater Planter Walls - Sidewalk Wall With Batter - Detail 622	240	LF	\$	\$
D.8		Stormwater Planter 6" Dia. PVC 3034 Perforated Drain Pipe - Details 621 and 618	230	LF	\$	\$
D.9		Stormwater Planter Beehive Overflow Structure - Detail 626	2	EA	\$	\$
D.10		Stormwater Planter Growing Media - Detail 621	87	CY	\$	\$
D.11		Stormwater Planter 3/4" - 1/4" Open Graded Aggregate - Detail 621	14	CY	\$	\$



**CITY OF HAPPY VALLEY 2020 SUPERBLOCK
PEDESTRIAN IMPROVEMENTS - PHASE II KING
ROAD, 132ND AVENUE AND RIDGECREST ROAD
CIP-05-20**

SCHEDULE OF VALUES

BID ITEM	ODOT #	DESCRIPTION	TOTAL QTY	UNIT	UNIT PRICE	TOTAL COST
D.12		Stormwater Planter 1-1/2" - 3/4" Washed Rock - Detail 621	87	CY	\$	\$
D.13		Stormwater Planter Water Tight Liner - Detail 625	430	SY	\$	\$
D.14		Stormwater Planter Herbaceous Plant and Ground Cover - Detail 630	170	SY	\$	\$
D.15		Stormwater Planter Connection to Existing Stormwater System	2	EA	\$	\$

Subtotal for Storm Drainage

E. Sanitary Sewer

E.1		4" Dia. Sanitary Sewer Connection to existing Main per Detail, including locating test pits, 40 feet lateral pipe and stub up per detail.	1	EA	\$	\$
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Subtotal for Sanitary Sewer

SUBTOTAL FOR RIDGECREST RD

GRAND TOTAL - PHASE II - KING RD, 132ND AVE, RIDGECREST RD \$ -

Dollars

Total Bid Amount (In Words)

Contractor Company Name:

Contact Name:

Telephone Number:

**Please use this form to submit bid
Bids Due no later than 2:00 PM on Thursday, October 22, 2020
mailed or delivered to City of Happy Valley, 16000 SE Misty Drive
ATTN: Carol Earle, Engineering Manager**

BIDDER'S CHECKLIST

1. Submittal of bid security in the amount of 10% of the bid for bids over \$10,000.
2. Acknowledgement of addenda form.
3. Indication of resident/non-resident bidder in the proposal section.
4. Submittal of first tier sub-contractors disclosure form for projects over \$100,000.

Requirements #1, #2 And #3 are due at 2:00 PM, requirement #4 is due no later than 4:00 PM on the bid opening date. Apparent lowest bidder shall submit application & ODOT pre-qualification letter within five business days after bid opening



FIRST-TIER SUB-CONTRACTOR DISCLOSURE FORM

PROJECT NAME: CITY OF HAPPY VALLEY
2020 SUPERBLOCK PEDESTRIAN IMPROVEMENTS PROJECT - PHASE
II KING ROAD, 132ND AVENUE AND RIDGECREST ROAD (CIP-05-20)

BID #:

BID OPENING: Date: Thursday, October 22, 2020 Time: 2:00 PM

Failure to submit this form by the disclosure deadline will result in a non-responsive bid. A non-responsive bid will not be considered for award.

INSTRUCTIONS: [ORS 279C.370]

This form **MUST** be submitted at the location specified in the Invitation to Bid on the advertised bid closing date and within two (2) working hours after the advertised bid closing time.

Unless otherwise stated in the solicitation, this document shall not be submitted by facsimile or e-mail. It is the responsibility of bidders to submit this disclosure form and any additional sheets with the project name clearly marked, at the location indicated by the specified disclosure deadline.

Subcontractor lists may be submitted with the bid in the same envelope at the bid closing date and time. Those subcontractor lists submitted after the bid closing shall be delivered in a separate sealed envelope that clearly identifies the contents.

List below the name of each sub-contractor that will be furnishing labor or will be furnishing labor and materials and that is required to be disclosed, the category of work that the subcontractor will be performing and the dollar value of the sub-contract. Enter "**NONE**" if the value of the project bid is less than \$100,000 or there are no subcontractors that need to be disclosed.

SUBCONTRACTOR NAME	DOLLAR VALUE	CATEGORY OF WORK
(1)	\$	
(2)	\$	
(3)	\$	
(4)	\$	
(5)	\$	
(6)	\$	

The above listed first-tier subcontractor(s) are providing labor, or labor and material, with a Dollar Value equal to or greater than:

- a) 5% of the total Contract Price, but at least \$15,000. [If the Dollar Value is less than \$15,000 do not list the subcontractor above.] **OR**
- b) \$350,000 regardless of the percentage of the total Contract Price.

Form Submitted By (Bidder): _____

Bidder Signature: _____

Contact Name: _____

Phone No.: _____

ORS 279C.370 First-tier subcontractor disclosure.

- (1) (a) Within two working hours after the date and time of the deadline when bids are due to a contracting agency for a public improvement contract, a bidder shall submit to the contracting agency a disclosure of the first-tier subcontractors that:
 - (A) Will be furnishing labor or will be furnishing labor and materials in connection with the public improvement contract; and
 - (B) Will have a contract value that is equal to or greater than five percent of the total project bid or \$15,000, whichever is greater, or \$350,000 regardless of the percentage of the total project bid.
- (b) For each contract to which this subsection applies, the contracting agency shall designate a deadline for submission of bids that has a date on a Tuesday, Wednesday or Thursday and a time between 2 p.m. and 5 p.m., except that this paragraph does not apply to public contracts for maintenance or construction of highways, bridges or other transportation facilities.
- (c) This subsection applies only to public improvement contracts with a value, estimated by the contracting agency, of more than \$100,000.
- (d) This subsection does not apply to public improvement contracts that have been exempted from competitive bidding requirements under ORS 279C.335 (Competitive bidding) (2).
- (2) The disclosure of first-tier subcontractors under subsection (1) of this section must include the name of each subcontractor, the category of work that each subcontractor will perform and the dollar value of each subcontract. The information shall be disclosed in substantially the following [above] form:
- (3) A contracting agency shall accept the subcontractor disclosure. The contracting agency shall consider the bid of any contractor that does not submit a subcontractor disclosure to the contracting agency to be a nonresponsive bid and may not award the contract to the contractor. A contracting agency is not required to determine the accuracy or the completeness of the subcontractor disclosure.
- (4) After the bids are opened, the subcontractor disclosures must be made available for public inspection.
- (5) A contractor may substitute a first-tier subcontractor under the provisions of ORS 279C.585 (Authority to substitute undisclosed first-tier subcontractor).
- (6) A subcontractor may file a complaint under ORS 279C.590 (Complaint process for substitutions of subcontractors) based on the disclosure requirements of subsection (1) of this section. [2003 c.794 §116; 2005 c.103 §16]



BID BOND
CITY OF HAPPY VALLEY 2020 SUPERBLOCK PEDESTRIAN IMPROVEMENTS
PROJECT - PHASE II KING ROAD, 132ND AVENUE AND RIDGECREST ROAD
(CIP-05-20)

KNOW ALL MEN BY THESE PRESENTS, that we _____
(Name of Contractor)

as Principal, hereinafter called the Principal, and _____

a corporation, duly authorized to do a general surety business in Oregon, as SURETY, and

jointly and severally held and bound unto _____
(Name of Obligee)

as Obligee, hereinafter called the Obligee, in the sum of _____ Dollars

(\$ _____), for the payment of which sum well and truly to be made, the said Principal and the said Surety, bid ourselves, our heirs, executors, administrators, successors and assigns, jointly and severally, firmly by these presents.

WHEREAS, the Principal has submitted a bid for _____

NOW, THEREFORE, if the Obligee shall accept the bid of the Principal and the Principal shall enter into a Contract with the Obligee in accordance with the terms of such bid, and give such bond or bonds as may be specified in the bidding or Contract Documents with good and sufficient surety for the faithful performance of such Contract and for the prompt payment of labor and material furnished in the prosecution thereof, or in the event of the failure of the Principal to enter such Contract and give such bond or bonds, if the Principal shall pay to the Obligee the difference not to exceed the penalty hereof between the amount specified in said bid and such larger amount for which the Obligee may in good faith contract with another party to perform the Work covered by said bid, then this obligation shall be null and void, otherwise to remain in full force and effect.

Signed and sealed this _____ day of _____, 2020.

Principal: _____

Surety: _____

By: _____

By: _____

Title: _____

Title: _____

CONTRACT DOCUMENTS

**CERTIFICATE OF INSURANCE
PREVAILING WAGE RATES (BOLI)
PERFORMANCE GUARANTEE
PAYMENT BOND
MAINTENANCE GUARANTEE
CONTRACT FOR SERVICES FORM**

CERTIFICATE OF INSURANCE:

Contractor to provide Certificate of Insurance as required by **Section 00170.70** of the Standard Specifications and Special Provisions and Contract for Services Form.

PREVAILING WAGE RATES (BOLI)

This Public Works Project is subject to the applicable prevailing wage rates. If a contractor fails to pay for labor and services, the City can withhold these amounts from payments due the contractor. Prevailing Wages applicable to this project can found electronically at:

<https://www.oregon.gov/boli/employers/Pages/prevailing-wage-rates.aspx> and is titled as:

“July 1, 2020 Prevailing Wage Rates for Public Works Contracts in Oregon” (Current Edition)

Including the following publications and amendments:

“Definitions of Covered Occupations for Public Works Contracts in Oregon”, Current Edition.

All Prevailing Wage Rate Amendments Effective through the Current Prevailing Wage Publication

All Applicable Amendments Adopted Prior to the Date of Current Prevailing Wage Publication.

City of Happy Valley, Oregon
PERFORMANCE GUARANTEE

Project Title: 2020 SUPERBLOCK PEDESTRIAN IMPROVEMENTS PROJECT PHASE II

Land Use/Project Number: CIP-05-20

Bond Number: _____

We, _____ as Principal ("Principal"), and _____, a corporation organized under the State of _____ and authorized to transact surety business in the State of Oregon, as Surety ("Surety"), jointly and severally bind ourselves, our respective heirs, executors, administrators, successors, and assigns unto the City of Happy Valley, Oregon ("City" and/or "Obligee"), for payment of this performance guarantee ("Guarantee") in the amount of _____ (\$ _____) as provided herein.

An application has been received by the City for a permit to construct improvements for 2020 SUPERBLOCK PEDESTRIAN IMPROVEMENTS PROJECT PHASE II ("the Project"), as described in Exhibit A. The improvements will be constructed according to and consistent with final construction plans approved by the City.

As a condition of the final approval of said improvements by City, Principal has agreed to furnish a financial guarantee to the City for the faithful performance and operability of the Project and to guarantee the work thereunder for a minimum period of twenty-four (24) months running from the last date of the City's partial or full release of the Performance Guarantee.

If Principal fully performs its obligations consistent with the terms of the final construction plans as well as all other contractual obligations the Principal has with the City concerning the Project, Surety's obligations under this Guarantee will then be null and void. Absent that performance by Principal, Surety's obligations remain in full force and effect.

Surety waives any requirement to be notified of alterations or extensions of time or any other authorized modifications made by City to the Project.

If Principal fails to fully and faithfully construct or complete the work required of it for the Project, and City has declared Principal in default of its obligations, City is entitled to be paid all funds under this Guarantee upon delivery of written notice to Surety by the City that the Principal has not performed the required work on the Project.

Surety shall be obligated to and shall disburse the amount(s) of funds deemed necessary by City, which may be either a partial or the full portion of the Guarantee. Payment(s) shall be made within thirty (30) business days of receiving written demand for said funds from the City. City may make serial demands for portions of the Guarantee, up to and including the full amount of the Guarantee. In the alternative, within thirty (30) business days of receiving the City's written demand, Surety may elect to complete the improvements at its sole cost and expense in accordance with the final construction plans approved by the City.

Surety and Principal further agree that twenty-five percent (25%) of the cost of the facilities as approved by the City Engineer or designee will remain in place to warrant to City that the construction is and will remain for a period of twenty-four (24) months from the date of acceptance, free from defects in materials and workmanship. This provision may not be applicable certain for private improvements.

Surety agrees to keep City fully advised of any change of information concerning the registered agents below. The Surety's obligation on this guarantee is non-assignable without prior written consent from the City.

City	Principal	Surety or Attorney-in-Fact
Carol Earle, PE		
Printed Name of Authorized City Signatory	Printed Name of Principal	Printed Name of Authorized Surety or Attorney-in-Fact Signatory
City Engineer		
Title	Title	Title
Signature of Authorized City Signatory	Signature of Principal	Signature of Authorized Surety or Attorney-in-Fact Signatory
16000 SE Misty Drive		
Address Line 1	Address Line 1	Address Line 1
Happy Valley, OR 97086		
Address Line 2	Address Line 2	Address Line 2
Date	Date	Date
	Telephone Number	Telephone Number
	Email Address	Email Address

Exhibit A

This project generally includes sidewalk, curb and gutter and road construction on three (3) streets King Road, 132nd Avenue and Ridgecrest Road.

On King Road, the proposed pedestrian improvements project includes construction of 1,949 linear feet of new sidewalk and curb and gutter along the south side of King Road from Melita Drive to east of Regina Court. Associated work includes demolition, hogout and roadway widening, 3,290 square yards of 2" grind with overlay including a total paving tonnage of 1,100. The project also includes roadway striping, storm drainage improvements, hydrant and water service relocation, retaining wall and fencing construction, and the installation of an arched metal culvert pedestrian bridge over Mt. Scott Creek.

On 132nd Avenue, the pedestrian improvements project includes construction of 360 linear feet of new sidewalk, curb and gutter along the east side of 132nd Avenue to the intersection of 132nd Avenue and Ridgecrest Road. Associated work includes clearing and grubbing, 1,100 cubic yards of excavation, hogout and roadway widening, 550 square yards of 2" grind with overlay including a total paving tonnage of 160 tons. The project also includes roadway striping, storm drainage improvements, water service relocation and installation and new sanitary sewer lateral construction.

On Ridgecrest Road the project includes construction of 880 linear feet of new sidewalk and curb and gutter along the south side of SE Ridgecrest Road. Associated work includes clearing and grubbing, 1,090 cubic yards of excavation (cut and fill), 2,600 cubic yards of crushed rock placement, hogout and roadway widening, 917 square yards of 2" grind with overlay with a total paving tonnage of 305 tons. Two roadside stormwater planter facilities, are also to be installed. The project also includes roadway striping, storm drainage improvements, fencing, water service installation and new sanitary sewer lateral construction.

The scope of work for the project is contained in the Contract Documents and Plans titled City of Happy Valley 2020 Superblock Pedestrian Improvements Project - Phase II King Road, 132nd, and Ridgecrest Road, dated September 2020 by Curran-McLeod, Inc.



PAYMENT BOND
CITY OF HAPPY VALLEY
2020 SUPERBLOCK PEDESTRIAN IMPROVEMENTS PROJECT- PHASE II
KING ROAD, 132ND AVENUE AND RIDGECREST ROAD (CIP-05-20)

KNOW ALL MEN BY THESE PRESENTS, that we _____

as PRINCIPAL, and _____

a corporation, duly authorized to do a general surety business in Oregon, as SURETY, and jointly and severally held and bound unto

the OBLIGEE herein, in the sum of _____

_____ (dollars) (\$)

for the payment of which we jointly and severally bind ourselves, our heirs, executors, administrators, successors, and assigns, firmly by these presents:

THE CONDITION OF THIS BOND IS SUCH THAT

WHEREAS, _____

(Contractor)

the PRINCIPAL herein, on the _____ day of _____, 2020

entered into it contract with the OBLIGEE which contract documents consist of the "Invitation to Bid", the "Instructions to Bidders", the "Bid Proposal, Schedule of Prices and Subcontractor Form", the "Bid Bond", the "Performance Bond and the Payment Bond", the "Certificate or Insurance", the "Prevailing Wage Rates for Public Contracts in Oregon" the "Standard Specifications and Special Provisions", "the Plans, Drawings and Exhibits", and the "Agreement Form" all as hereto attached and made a part hereof, whereby said PRINCIPAL undertakes to promptly make payment for all labor, services, material, and sums due the workmen's compensation board or equivalent, the collector of

internal revenue, the unemployment compensation trust fund, and the treasurer of the State of Oregon in conformity with all laws, state and national, applicable thereto.

NOW, THEREFORE, if said PRINCIPAL herein shall promptly pay all persons furnishing labor, services and material, and sums due for workmen's compensation insurance or equivalent, social security and unemployment compensation, sums due to the Department of Revenue, to him and to his subcontractor, or to their assigns, on or about said work then this obligation shall be void; but otherwise it shall remain in full force and effect.

PROVIDED, HOWEVER, that this bond is subject to the following conditions:

- (a)** All material men, and all persons who shall supply such laborers, mechanics, or subcontractors with material, supplies or provisions for carrying on such work, shall have a direct right of action against the PRINCIPAL and SURETY on this bond, second only to the right of the OBLIGEE under this bond, which right of action shall be asserted in proceedings instituted in the appropriate court of the State of Oregon, and insofar as permitted by the laws of Oregon, such right of action shall be asserted 'in a proceeding instituted in the name of the OBLIGEE to the use and benefit of the person, firm, or corporation instituting such action and of all other persons, firms, or corporations having claims hereunder, and any other person, firm or corporation having a claim hereunder shall have the right to be made a party to such proceeding (but not later than one year after the complete performance of said contract and final acceptance of the work in the contract) and to have such claim adjudicated in such action and judgment rendered thereon.
- (b)** The said SURETY for the value received, hereby stipulates and agrees that no change, extension of time, alteration or addition to the terms of the contract or to the work to be performed there under or the specifications accompanying the same shall in any way affect its obligations on this bond, and it does hereby waive notice of any such change, extension of time, alteration or addition to the terms of the contract or to the work or to the specifications.
- (c)** The PRINCIPAL herein shall faithfully and truly observe and comply with the terms of the contract and shall promptly make payments to all persons supplying labor or material for any prosecution of the work provided for in such contract and shall not permit any lien or claim to be filed or prosecution against the OBLIGEES, on account of any labor or material furnished, and shall promptly pay all contributions or amount due the workmen's compensation board or equivalent and all contributions or amounts due the state employment compensation trust fund incurred in the performance of said contract, and shall also pay all sums of money withheld from the employees and payable to the state tax commission pursuant to ORS 316.711, and shall do all things required of said PRINCIPAL by the laws of this state.

This bond is given and received under the authority of ORS Chapter 279, the provisions of which hereby are incorporated into this bond and made a part hereof.

IN WITNESS WHEREOF, the parties hereto have caused this bond to be executed in _____

_____, this _____ day of _____, 2020

_____ (SEAL)

PRINCIPAL

WITNESSES:

_____ (SEAL)

SURETY

The attorney-in-fact who executes this bond on behalf of the surety company, must attach a copy of his power-of-attorney as evidence of his authority.

To each executed original of this bond, there must be attached a complete set of the contract documents, as the term is defined in the "Standard Specifications and Special Provisions", with all corrections, interlineations, signatures, etc., completed reproduced therein.

City of Happy Valley, Oregon
MAINTENANCE GUARANTEE

Project Title: 2020 SUPERBLOCK PEDESTRIAN IMPROVEMENTS PROJECT PHASE II

Land Use/Project Number: CIP-05-20

Bond Number: _____

Expiration Date: _____

We, _____ as Principal ("Principal") and _____, a corporation organized under the State of _____ and authorized to transact surety business in the State of Oregon, as Surety ("Surety"), hereby jointly and severally bind ourselves, our respective heirs, executors, administrators, successors, and assigns unto the City of Happy Valley, Oregon, ("City"), for payment of this guarantee in the amount of _____ (\$ _____) as provided herein.

Principal constructed certain public or onsite improvements for a project known as 2020 SUPERBLOCK PEDESTRIAN IMPROVEMENTS PROJECT PHASE II ("Project") which improvements were constructed consistent with final construction plans approved by the City. As a condition of City's approval of said Project, Principal agreed to warrant that the construction, as described in Exhibit A, is and will remain free from defects in materials and workmanship for a period of _____ months from the date of the City's acceptance of said improvements.

If no claim on said warranty is made at the conclusion of thirty days following the warranty period, Surety's obligations pursuant to this guarantee are null and void. Otherwise, Surety's obligations remain in full force and effect.

Should the improvements not comport with the requirement that they be free from defects in materials and workmanship for a period of _____ months, and Principal has not corrected the defects within thirty (30) business days of receiving City's notice of the defect, City is entitled to the funds payable under this guarantee upon delivery of written demand to Surety that the required warranty has not be met.

Surety shall upon receipt of the written demand be thereupon obligated to and shall disburse amount(s) of funds deemed necessary by City to complete the work. Payment to City shall be made within thirty (30) business days of having received written demand for said funds from City. Alternatively, City may request Surety use funds payable under this Guarantee to complete the maintenance of the improvements.

Surety agrees to keep the City advised of any change of information concerning the registered agents below. The Surety's obligation on this guarantee is non-assignable without written consent from the City.

City	Principal	Surety or Attorney-in-Fact
Carol Earle, PE		
Printed Name of Authorized City Signatory	Printed Name of Principal	Printed Name of Authorized Surety or Attorney-in-Fact Signatory
City Engineer		
Title	Title	Title
Signature of Authorized City Signatory	Signature of Principal	Signature of Authorized Surety or Attorney-in-Fact Signatory
16000 SE Misty Drive		
Address Line 1	Address Line 1	Address Line 1
Happy Valley, OR 97086		
Address Line 2	Address Line 2	Address Line 2
Date	Date	Date
	Telephone Number	Telephone Number
	Email Address	Email Address

Exhibit A

This project generally includes sidewalk, curb and gutter and road construction on three (3) streets King Road, 132nd Avenue and Ridgecrest Road.

On King Road, the proposed pedestrian improvements project includes construction of 1,949 linear feet of new sidewalk and curb and gutter along the south side of King Road from Melita Drive to east of Regina Court. Associated work includes demolition, hogout and roadway widening, 3,290 square yards of 2" grind with overlay including a total paving tonnage of 1,100. The project also includes roadway striping, storm drainage improvements, hydrant and water service relocation, retaining wall and fencing construction, and the installation of an arched metal culvert pedestrian bridge over Mt. Scott Creek.

On 132nd Avenue, the pedestrian improvements project includes construction of 360 linear feet of new sidewalk, curb and gutter along the east side of 132nd Avenue to the intersection of 132nd Avenue and Ridgecrest Road. Associated work includes clearing and grubbing, 1,100 cubic yards of excavation, hogout and roadway widening, 550 square yards of 2" grind with overlay including a total paving tonnage of 160 tons. The project also includes roadway striping, storm drainage improvements, water service relocation and installation and new sanitary sewer lateral construction.

On Ridgecrest Road the project includes construction of 880 linear feet of new sidewalk and curb and gutter along the south side of SE Ridgecrest Road. Associated work includes clearing and grubbing, 1,090 cubic yards of excavation (cut and fill), 2,600 cubic yards of crushed rock placement, hogout and roadway widening, 917 square yards of 2" grind with overlay with a total paving tonnage of 305 tons. Two roadside stormwater planter facilities, are also to be installed. The project also includes roadway striping, storm drainage improvements, fencing, water service installation and new sanitary sewer lateral construction.

The scope of work for the project is contained in the Contract Documents and Plans titled City of Happy Valley 2020 Superblock Pedestrian Improvements Project - Phase II King Road, 132nd, and Ridgecrest Road, dated September 2020 by Curran-McLeod, Inc.



CONTRACT FOR SERVICES
CITY OF HAPPY VALLEY 2020 SUPERBLOCK PEDESTRIAN IMPROVEMENTS
PROJECT - PHASE II KING ROAD, 132ND AVENUE AND RIDGECREST ROAD
(CIP-05-20)

This contract is entered into by and between the City of Happy Valley, hereinafter referred to as the "CITY", and _____ hereinafter called the "CONTRACTOR", to provide the services described in the Invitation to Bid for the

CITY OF HAPPY VALLEY 2020 SUPERBLOCK PEDESTRIAN IMPROVEMENTS PROJECT - PHASE II KING ROAD, 132ND AVENUE AND RIDGECREST ROAD (CIP-05-20),

hereinafter called the "PROJECT", which by this reference is hereby made part of this contract. This contract is one of several documents that govern the rights and obligations of the CITY and the CONTRACTOR relative to the PROJECT, which are identified in the definition of "Contract Documents" in the 2018 ODOT Oregon Standard Specifications for Construction. The following provisions shall comprise this contract:

I. COMPENSATION

- A.** The CITY agrees to compensate the CONTRACTOR as outlined in these DOCUMENTS. This contract covers the period beginning, _____ through _____ inclusive. Work shall be performed in accordance with an approved schedule provided to the CITY by the CONTRACTOR as part of this document. Invoices submitted for payment in connection with this contract shall be properly documented and shall indicate pertinent CITY contract and/or purchase order numbers. All invoices shall be consistent with the fee bid accepted by the CITY and shall reflect any savings or reductions provided for in the fee bid. Subject to the terms of ORS 279C.550 through 279C.570, the City will retain 5% from progress payments. The retainage will be released with the final payment after the project has been accepted as complete by the City. The compensation authorized under this contract shall be \$_____ per the bid schedule of items and prices form for PROJECT.
- B.** The CONTRACTOR is engaged hereby as an independent contractor and will be so deemed for purposes of the following:
 - 1.** The CONTRACTOR will be solely responsible for payment of any Federal or State taxes required as a result of this contract, including without limitation Oregon's Corporate Activity Tax.
 - 2.** This contract is not intended to entitle the CONTRACTOR to any benefits generally granted to CITY employees. Without limitation but by way of illustration, the benefits which are not intended to be extended by this contract to the CONTRACTOR are vacation, holiday and sick leave, other leaves with pay, tenure, medical and dental coverage, life and disability insurance, overtime, Social Security, Workers' Compensation, unemployment compensation, or retirement benefits.
 - 3.** Unless otherwise exempt under Oregon law, the CONTRACTOR is an insured employer for purposes of the Oregon Workers' Compensation law (ORS Chapter 656) and is solely liable for any Workers' Compensation coverage under this contract. If the CONTRACTOR has the

assistance of other persons in the performance of this contract, the CONTRACTOR shall qualify and remain qualified for the term of this contract as an insured employer pursuant to ORS Chapter 656.

- C. The CONTRACTOR represents that neither it nor any of its owners, members, officers, partners or employees are employed by the CITY.
- D. The CONTRACTOR, if an individual, certifies that he or she is not an active member of the Public Employees Retirement System.

II. SERVICES TO BE PROVIDED:

The CONTRACTOR shall provide all materials and services required for the PROJECT, as set forth in the *Invitation to Bid*, and the documents it references.

III. CONTRACTOR OBLIGATIONS

- A. This contract is expressly subject to all applicable State contracting laws and further, is expressly subject to the constitutional and charter debt limitation, and incorporates by reference all provisions required by applicable ORS Chapter 279A and ORS 279C and Oregon Administrative Rule Divisions 47 and 49. The contract is contingent upon funds being appropriated therefore.
 - 1. The CONTRACTOR shall comply fully with all statutory requirements for payment of prevailing wage rates on public works projects. The hourly rate of wage to be paid workers on this project shall not be less than the prevailing wage for an hour's work in the same trade or occupation in the locality of the project. This requirement shall apply to all workers employed on the project by the prime contractor, subcontractors, or other persons doing, or contracting to do the whole or any part of the work required for the project. The existing prevailing rates of wages as established by the Commissioner of the Bureau of Labor and Industries pursuant to ORS 279.359 are hereby incorporated into these Specifications. A copy of the Prevailing Wage Rates is attached to this Contract and is available on-line at the following Bureau of Labor and Industries website: (July 1, 2020) <https://www.oregon.gov/boli/employers/Pages/prevailing-wage-rates.aspx>
 - 2. This contract is expressly subject to the constitutional and charter debt limitation, and is contingent upon funds being appropriated therefore. Any provisions herein, which would conflict with law, are deemed inoperative to that extent.
 - 3. The CONTRACTOR shall indemnify, save harmless and defend the CITY, its officers, councilors, agents and employees from and against all claims and actions, and all expenses incidental to the investigation and defense thereof, arising out of or based upon damage or injuries to persons or property caused by the acts, errors, omissions, fault or negligence of the CONTRACTOR or the CONTRACTOR'S employees and agents.
 - 4. CONTRACTOR shall comply with all applicable federal and state civil rights and rehabilitation statutes, rules, and regulations. CONTRACTOR shall maintain valid all required licenses and certificates required by law.
 - 5. If the CONTRACTOR fails to pay for labor and services, the CITY can pay for them and withhold those amounts from payment to the CONTRACTOR. ORS 279C.515; OAR 839-025-0020(2)(a).
 - 6. The CONTRACTOR must pay daily, weekly and holiday overtime as required. ORS 279C.520; OAR 839-025-0020(2)(b)

7. The CONTRACTOR must make prompt payment for all medical services for which the CONTRACTOR has agreed to pay, and for all amounts for which the CONTRACTOR collects or deducts from workers' wages. ORS 279C.530; OAR 839-025-0020(2)(d)
 8. The CONTRACTOR must submit a Public Work Contract Fee form (WH-39) and pay a prevailing wage rate fee to BOLI. ORS 279C-830 (2); OAR 839-025-0020(2)(e)
 9. The CONTRACTOR must pay the workers not less than the applicable state or federal prevailing wage rate, whichever is higher. ORS 279C.830 (1)(c); OAR 839-025-0020(3)
 10. If federal funds are used to pay for the Project, the CONTRACTOR must have a public works bond filed with the Construction Contractors Board before commencement of any work on the project. ORS 279C.830(3)(a)
 11. The CONTRACTOR shall include in every subcontract a provision requiring the Subcontractor to have a public works bond filed with the Construction Contractors Board before commencing any work on the project. ORS 279C.830(3)(b).
- B. CONTRACTOR warrants all installed materials or systems to be free from design, materials or construction defects and the systems shall perform to the CITY's satisfaction for at least two (2) years from the date the CITY accepts the work. CONTRACTOR warrants that the renovation work shall be performed consistent with professional standards found to be prevalent in the Portland Metropolitan Area.

IV. **INSURANCE REQUIREMENTS:**

- A. The CONTRACTOR agrees to furnish the CITY evidence of commercial general liability insurance in the amount of not less than \$2,000,000 combined single limit per occurrence and \$2,000,000 general annual aggregate for bodily injury and property damage for the protection of, and naming the CITY, its officers, councilors and employees as additionally insured against liability for damages because of bodily injury, death or damage to property, including loss of use thereof in any way related to this contract. The CITY requires a complete copy of the above policy.
- B. The CONTRACTOR warrants that it is an insured employer for purposes of the Oregon Workers' Compensation law (ORS Chapter 656) and is solely liable for any Workers' Compensation coverage under this contract. If the CONTRACTOR has the assistance of other persons in the performance of this contract, the CONTRACTOR agrees to qualify and remain qualified for the term of this contract as an insured employer under ORS 656.407. CONTRACTORS shall maintain employer's liability insurance with limits of \$1,000,000 each accident, \$1,000,000 disease each employee, and \$1,00,000 each policy limit.
- C. The CONTRACTOR agrees to furnish the CITY evidence of business automobile liability insurance in the amount of not less than \$1,000,000 combined single limit for bodily injury and property damage for the protection of, and naming the CITY, its officers, councilors, and employees as additionally insured against liability for damages because of bodily injury, death, or damage to property, including loss of use thereof in any way related to this contract. The CITY, at its option, may require a complete copy of the above policy.
- D. The insurance, other than the Workers' Compensation coverage, shall include the CITY as an additional named insured and refer to and support the CONTRACTOR'S obligation to hold harmless and defend (with attorneys approved by the CITY) the CITY, it's officers, councilors, agents, insurers and employees (all of whom shall be deemed to be covered by the duty of indemnify and defend). Such insurance shall provide at least thirty (30) days written notice to the CITY in the event of a cancellation or material change and include a statement that no act on the part of the insured shall affect the coverage afforded to the CITY under this insurance. The insurance company will provide written notice to the CITY within sixty (60) days after any

reduction in the general aggregate limit. This policy(s) shall be primary insurance as respects to the CITY. Any insurance or self-insurance maintained by the CITY shall be excess and shall not contribute to it.

V. SUBCONTRACTS:

The CONTRACTOR shall be responsible to the CITY for the actions of persons and firms performing subcontract work.

VI. DEFAULT:

The CITY may, subject to the provisions of paragraph four (4) below, by written notice of default to the CONTRACTOR, terminate the whole or any part of this contract in any one of the following circumstances:

- A. If the CONTRACTOR fails to make delivery of the supplies or to perform the services within the time specified (to be determined) herein or any extension thereof; or
- B. If the CONTRACTOR fails to perform any of the other provisions of this contract, or so fails to make progress as to endanger performance of this contract in accordance with its terms, and in either of these two circumstances does not cure such failures within a period of ten (10) days (or such longer period as the CITY may authorize in writing) after receipt of notice from the CITY specifying such failure.
- C. In the event the CITY terminates this contract in whole, or in part, as provided in paragraph (b) above of this clause, the CITY may procure, upon such terms and in such manner as the CITY may deem appropriate, supplies or services similar to those terminated, and the CONTRACTOR shall be liable to the CITY for any excess costs for such similar supplies or services; provided, that the CONTRACTOR shall continue the performance of this contract to the extent not terminated under the provisions of this clause.
- D. Except with respect to defaults of subcontractors, the CONTRACTOR shall not be liable for any excess costs if the failure to perform the contract arises out of causes beyond the control and without the fault or negligence of the CONTRACTOR(s). Such causes may include, but are not restricted to, acts of God or of the public enemy, acts of the CITY in either its sovereign or contractual capacity, fires, floods, epidemics, quarantine restrictions, strikes, freight embargoes and unusually severe weather; but, in every case, the failure to perform must be beyond the control of both the CONTRACTOR and subcontractor, and without the fault or negligence of either of them, the CONTRACTOR shall not be liable for excess costs for failure to perform, unless the supplies or services to be furnished by the subcontractor were obtainable from other sources in sufficient time to permit the CONTRACTOR to meet the required delivery schedule.
- E. The rights and remedies of the CITY provided in this clause shall not be exclusive and are in addition to any other rights and remedies provided by law or under this contract.
- F. As used in paragraph (d) of this clause, the terms "subcontractor" and "subcontractors" mean subcontractor(s) at any tier.

LIQUIDATED DAMAGES

The CONTRACTOR shall complete all required work under the Contract by **Friday, April 9, 2021.**

Once construction on the project has begun, the contractor must reach substantial completion within 160 days of commencing activity. The daily amount of the liquidated damages will be \$500 per Calendar Day* for failure to meet this deadline and/or for failure to complete work on-time as required by Section 00180.50(h) of the ODOT Standard Specifications for Construction, latest edition as modified by these Bid Documents.

*Calendar Day amounts are applicable when the Contract time is expressed on the Calendar Day or fixed date basis.

VII. PERFORMANCE GUARANTEE AND PAYMENT BOND

The CONTRACTOR will be required to file with the CITY Performance and Labor and Material Payment Guarantees in the amount of 100% of the contract price at the time of execution of the contract. The surety company furnishing this guarantee shall have a sound financial standing and a record of service satisfactory to the CITY and shall be authorized to do business in the State of Oregon. The Attorney-in-Fact (Resident Agent) who executes this performance and payment bond on behalf of the surety company must attach a copy of his power-of-attorney as evidence of his authority. A notary shall acknowledge the power as of the date of the execution of the guarantee, which it covers. City forms will be provided for the Performance guarantee and Labor and Material Payment bonds.

VIII. MAINTENANCE GUARANTEE

At the completion of the project and prior to received final acceptance by the CITY, the CONTRACTOR shall provide the CITY with a Maintenance Guarantee in the amount of 25% of the contract amount, which covers any defects in either materials or workmanship, for a period of two years from the date of acceptance. City forms will be provided for the Maintenance Guarantee.

IX. TERMINATIONS AND AMENDMENTS:

- A. The CITY may terminate this contract for cause or if sufficient funds are not appropriated for the completion of this project.
- B. This contract and any amendments thereto will not be effective until approved in writing by the CITY.
- C. This contract supersedes and cancels any prior contracts between the parties hereto for similar services.

By their signatures below, the parties to this contract agree to the terms, conditions, and content expressed herein:

CONTRACTOR

CITY OF HAPPY VALLEY

Authorized Signature Date

Chris Randall, Public Works Director

Printed Name and Title

Date

Contractor CCB#

Carol Earle, PE, City Engineer

Telephone / Fax Number

Date

Federal Tax ID Number

STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS

STANDARD SPECIFICATIONS **& SPECIAL PROVISIONS**

The general conditions for this project are the *2018 Oregon Standard Specifications for Construction*.

The *Oregon Standard Specifications* are further modified and supplemented for all projects by the *City of Happy Valley Engineering Design and Standard Details Manual* (available at <https://www.happyvalleyor.gov/business/engineering-division/design-manual-details/>); and are further modified and supplemented for this project by Special Provisions, Supplemental Specifications, project plans, and other references as indicated herein. All above referenced documents are hereby incorporated into and made a part of these Contract Documents in their entirety.

**SPECIAL PROVISIONS
FOR ROADWAY AND HIGHWAY CONSTRUCTION**

**CITY OF HAPPY VALLEY
2020 SUPERBLOCK PEDESTRIAN IMPROVEMENTS PROJECT
PHASE II KING ROAD, 132ND AVENUE AND RIDGECREST ROAD
(CIP-05-20)**

Sidewalk Construction, Concrete Curb and Gutter, Sitework,
Embankment Construction, Retaining Walls and Arched Metal
Culvert Bridge, Pavement Grinding, Paving, Storm Drainage, Storm
Water Planters, Sanitary, Water, Fencing & Pavement Markings

CITY OF HAPPY VALLEY, OREGON

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SPECIAL PROVISIONS DESCRIPTION OF WORK

CITY OF HAPPY VALLEY 2020 SUPERBLOCK PEDESTRIAN IMPROVEMENTS PROJECT - PHASE II KING ROAD, 132ND AVENUE AND RIDGECREST ROAD (CIP-05-20)

Sidewalk Construction, Concrete Curb and Gutter, Sitework, Embankment Construction, Retaining Walls and Arched Metal Culvert Bridge, Pavement Grinding, Paving, Storm Drainage, Storm Water Planters, Sanitary, Water, Fencing & Pavement Markings

City of Happy Valley

Construction may begin on or after November 18, 2020 and substantial completion is to be completed no later than April 2, 2021. Once construction on the project has begun, the contractor must reach substantial completion within 160 days of commencing activity.

APPLICABLE SPECIFICATIONS

The Specification that is applicable to the Work on this Project is the 2018 edition of the "Oregon Standard Specifications for Construction" produced by the Oregon Department of Transportation and the Oregon Chapter of the APWA.

All number references in these Special Provisions shall be understood to refer to the Sections and subsections of the Standard Specifications and Supplemental Specifications bearing like numbers and to Sections and subsections contained in these Special Provisions in their entirety. Unless specifically noted in these Special Provisions, all specification included in the 2018 edition of the "Oregon Standard Specifications for Construction" shall be strictly adhered to.

The following general notes apply to the entirety of the current edition of the "Oregon Standard Specifications for Construction":

- Delete all references to ODOT eBIDS website and to electronic submission of bids by any means. The City shall only accept paper bid submissions.
- The City's standard drawings and the City's Design Manual shall take precedence in the case of any conflicts.

CLASS OF PROJECT

This is a City of Happy Valley project. The construction of this project is NOT federally funded.

CLASS OF WORK

The Class of Work for this Project is: Earthwork and Drainage, Bridges and Structures, Portland Cement Concrete Paving, Pavement Markings, Signing and Miscellaneous Highway Appurtenances

SECTION 00110 - ORGANIZATION, CONVENTIONS, ABBREVIATIONS AND DEFINITIONS

Comply with Section 00110 of the Standard Specifications supplemented and/or modified as follows:

00110.10 Abbreviations – Add abbreviation(s) as follows:

BMP - Best Management Practice(s)
UNC - Utility Notification Center

00110.20 Definitions – Add or modify definitions as follows:

Amendment - A contract modification for Additional Work, Changed Work, Extra Work, Field Directives, or other changes. An Amendment changes the contract value, scope, and/or time. Amendments require formal approval by the City prior to approval of such work.

Award - Same as "Notice to Award".

Bid - A written offer by a bidder on forms furnished by the City to do work stated in the bid documents at the prices quoted. "Bid" is synonymous with "proposal" in these bid documents.

Bid Booklet – The bound paper version included in the Solicitation Documents.

Bid Documents- The following documents together comprise the Bid Documents:

- Invitation to Bid, Instructions to Bidders, Bid Form, Bid Proposal, Bidders Checklist, Payment Bond, Schedule of Prices, Bid Bond, Performance Bond
- Certificate of Insurance, Prevailing Wage Rates
- The "Oregon Standard Specifications for Construction" by ODOT and APWA, 2018 edition
- The City of Happy Valley "Engineering Design and Standard Details Manual", current edition
- Plans and drawings
- Other bid documents included or referenced in the bid documents
- Addenda, if any
- The Agreement Form and Special Provisions

Bonds - The bond or surety bond is a written document given by the surety and principal to the obligee to guarantee a specific obligation.

Change Order - A price agreement for Extra Work, Changed Work, Field Directives, or other changes. A Change Order does not change the contract value, scope, or time until it is incorporated into an Amendment. Change Orders will be agreed upon, in writing, by the City Project Manager and the Contractor's designated representative.

Contract - The written contract agreement, including amendments, signed by the Contractor and City, which describes the work to be done, the contract amount, and defines the relationships and obligations of the Contractor and the City.

City - The term "City" shall mean the City of Happy Valley, including City Councilors, employees, and agents of the City authorized to administer the conditions of these contract documents.

Department - Synonymous with Agency.

Engineer – The City's Project Manager either acting directly or through an authorized representative(s). The engineer for this project and their contact information is below:

Edward Hodges, PE, CURRAN-MCLEOD, INC., 6655 S.W. Hampton, Suite 210,
Portland, OR 97223. Phone: (503) 684-3478; FAX: (503) 624-8247; email:
eph@curran-mcleod.com

Invitation to Bid - The public announcement (Notice to Contractors) inviting bids for work to be performed or materials to be furnished.

Legal Holiday - As defined in 00170.65 "Minimum Wage and Overtime Rates for Public Works Projects".

Lump Sum - A method of payment providing for one all-inclusive cost for the work or for a particular portion of the work.

Notice of Award - A written notice from the City notifying bidders that the City intends to award to the responsible bidder submitting the lowest responsive bid.

ODOT Procurement Office— City of Happy Valley.

Owner - Synonymous with Agency.

Project Manager – The Owner's representative who directly supervises the engineering and administration of the contract.

Solicitation Document - Synonymous with Bid Documents.

Standard Drawings - The Agency-prepared detailed drawings for Work or methods of construction that normally do not change from project to project. The Standard Drawings include the ODOT Standard Drawings.

State - Where the term "State" or "State of Oregon" or "ODOT" appears in the contract documents it shall mean "City of Happy Valley", "State of Oregon", or "ODOT" as applicable because of context.

Substantial Completion - The work or specified parts of the work which are sufficiently complete, in accordance with the contract documents, such that they can be utilized by the City for the purposes intended as determined by the Engineer.

Work Day - Any and every calendar day from January 1 to December 31 of every year, excluding Saturdays, Sundays and legal holidays.

END OF SECTION

SECTION 00120 - BIDDING REQUIREMENTS AND PROCEDURES

Comply with Section 00120 of the Standard Specifications supplemented and/or modified as follows:

00120.00 Prequalification of Bidders - Delete this sub-section and replace with the following:

See Instruction to Bidders. (BID DOCUMENTS)

00120.01 General Bidding Requirements – Delete this sub-section and replace with the following:

See Instruction to Bidders. (BID DOCUMENTS)

00120.05 Requests for Plans, Special Provisions and Bid Booklets - Delete this sub-section and replace with the following:

Project and Bid documents are available on the City's website (<https://www.happyvalleyor.gov/>) for downloading.

Copies of the Oregon Standard Specifications for Construction and Supplements may be purchased from the Oregon Department of Transportation from the Plan Distribution Center in Salem, Oregon.

00120.25 Subsurface Investigations - Add the following to this sub-section.

A geotechnical investigation by GeoPacific Engineering Inc. was performed for this project. A copy of the report is included in Exhibit A of these documents.

00120.30 Changes to Plans, Specifications, or Quantities before Opening of Bids - Delete this sub-section and replace with the following:

The City reserves the right to make necessary changes or corrections to the bid documents at any time prior to the opening of bids. The City will notify bidders whose names, addresses, e-mail addresses and telephone numbers appear on the Plan Holder's List, of change or corrections by mail or e-mail. The City may elect to notify bidders by telephone initially and follow up with one of the above notification methods.

The City is not responsible for failure of bidders to receive notifications of changes or corrections made by the City and sent as stated above. Bids opened and found not to be based on the changes or corrections will not be considered and will be deemed non-responsive.

00120.40 Preparation of Bid – Delete paragraph (f) in this sub-section and replace with the following:

(f) Disclosure of First-Tier Subcontractors - Within two working hours after the date and time of the deadline when the bids are due to the public contracting agency for a public improvement, a bidder shall submit to the public contracting agency a disclosure of the first-tier subcontractors that (ORS 279C.370):

(A) Will be furnishing labor or will be furnishing labor and materials in connection with the public improvement; and

(B) Will have a contract value that is equal to or greater than five percent of the total project bid or \$15,000, whichever is greater, or \$350,000 regardless of the percentage of the total project bid.

The disclosure of first-tier subcontractors shall include:

- (a) The name of each subcontractor; and
- (b) The dollar value of work; and
- (c) The category of work that each subcontractor will be performing.

If no subcontracts subject to the above disclosure requirements are anticipated, a bidder shall so indicate by entering "NONE" or filling in the appropriate check box.

The public contracting agency shall consider the bid of any contractor that does not submit a subcontractor disclosure to the public contracting agency to be a non-responsive bid and may not award the contract to the contractor.

Subcontractor lists may be submitted with the bid in the same envelope at the bid closing date and time. Those subcontractor lists submitted after the bid closing shall be delivered in a separate sealed envelope that clearly identifies the contents. However, the subcontractor lists must be submitted within two hours of the bid closing date and time.

00120.45 Submittal of Bids - Delete this sub-section and replace with the following:

See Instructions to Bidders. (BID DOCUMENTS)

00120.50 Submitting Bids for More than One Contract - Delete this sub-section in its entirety.

00120.60 Revision or Withdrawal of Bids - Delete this sub-section and replace with the following:

A revision to a proposal after it has been submitted, but prior to the deadline for submission, will be allowed provided it is submitted in a sealed envelope and signed by an authorized individual. Revisions must include bid schedule, bid guarantee, signature page, and be submitted prior to the time set for receiving proposals.

A bidder may withdraw a proposal after it has been submitted provided the withdrawal request is in writing from an individual authorized to sign the proposal and received prior to the time set for opening proposals.

00120.68 Mistakes in Bids – Add this sub-section and the following specifications:

(a) General - Clarifications to or withdrawal of a bid after bid opening because of an inadvertent, non-judgmental mistake in the bid requires careful consideration by the City to protect the integrity of the competitive bidding system and to assure fairness to all bidders.

Bid corrections or withdrawal by reason of a non-judgmental mistake is permissible, but only to the extent it is not contrary to the interest of the City or the fair treatment of other bidders.

(b) Mistakes Discovered After Bid Closing But Before Award - This sub-section prescribes standards to be applied in situations where mistakes in bids are discovered after the time and date set for bid closing, but before award.

- (1) Minor Informalities - are insignificant mistakes of form that are evident from the bid documents and do not affect price, quality, quantity, delivery, or contractual obligations except in the case of informalities involving unit price. Minor informalities can be waived or corrected promptly without prejudice to other bidders or to the City. Examples include, but are not limited to:
 - Return of the number of signed bids or the number of other documents required by the bid documents;
 - Failure to sign the bid form in the designated block so long as a signature appears in the bid documents evidencing an intent to be bound;
 - Failure to acknowledge receipt of an addenda to the bid documents, but only if:
 - it is clear from the bid that the bidder received the addenda and
 - intended to be bound by its terms, or;
 - the addenda involved had a negligible effect on price, quality, quantity, or delivery.
- (2) Mistakes Where Intended Correct Bid is Evident - If the mistake and the intended correct bid are clearly evident on the face of the bid form, or can be substantiated from accompanying documents, the City may accept the bid (i.e., typographical errors, errors in extending unit prices, transposition errors, and arithmetical errors). For discrepancies between unit prices and extended prices, unit prices will prevail.
- (3) Mistakes Where Intended Correct Bid is not Evident - The City will not accept a bid in which a mistake is clearly evident on the face of the bid form but the intended correct bid is not similarly evident or cannot be substantiated from accompanying documents.

00120.70 Rejection of Nonresponsive Bids – Delete this sub-section and replace with the following:

A bid will be considered irregular and may be rejected if:

- 1) The bid schedule(s) (BID DOCUMENTS) provided is not used or is altered.
- 2) The bid is incomplete or incorrectly completed.
- 3) The bid has unauthorized additions, deletions, alternate bids, or conditions.
- 4) A member of a joint venture and the joint venture submit bids for the same project. Both bids may be rejected.
- 5) The bid has entries not typed or in ink or has signatures or initials not in ink.
- 6) Each erasure, change, or correction is not initialed.
- 7) The price per unit cannot be determined.
- 8) The Department finds that it is in the public interest to do so (ORS 279.035).
- 9) The bid guaranty is insufficient or improper.
- 10) The standard bid bond form is not used or is altered.
- 11) Pre-Qualification submission requirements are not met.
- 12) The Oregon Construction Contractors Board registration number and expiration date are not shown on the bid if required by the bid document. This requirement applies to State-funded projects, with the exception of aggregate production and landscape projects.
- 13) A disclosure of first-tier subcontractors/material suppliers, if required under 00120.40(f), is not received within two working hours of the time bids are due to be submitted, or the disclosure form is not complete.
- 14) The Agency determines that any Pay Item is significantly unbalanced to the potential detriment of the Agency.

00120.80 Reciprocal Preference for Oregon Resident Bidders – Delete this sub-section .

00120.95 Opportunity for Cooperative Arrangement – Delete this sub-section.

END OF SECTION

SECTION 00130 – AWARD AND EXECUTION OF CONTRACT

Comply with Section 00130 of the Standard Specifications supplemented and/or modified as follows:

00130.00 Consideration of Bids – Delete the third paragraph of this sub-section.

00130.10 Award of Contract – Delete this sub-section and replace with the following:

If the City accepts a bid and awards a contract, the City will send the successful bidder written notice of acceptance and award and two (2) copies of the Contract For Services ready for execution. The documents will be sent within thirty (30) calendar days of the Notice of Intent to Award, or within the number of calendar days specified in the contract documents or written in a mutual agreement. The City will have complied with this time limit if, within the number of days specified, the notice of acceptance and Contract Booklet copies are:

- Dated and delivered by the City to the bidder before the time limit;
- Deposited through the U.S. Post Office with postage prepaid; or
- Delivered through a private delivery service with delivery charges prepaid.

00130.15 Right to Protest Award – Delete this sub-section and replace with the following:

See Instructions to Bidders. (BID DOCUMENTS)

00130.30 Contract Booklet – Add the following to the end of this sub-section:

Other documents are part of the contract documents by reference. These include, but are not limited to:

- The "Oregon Standard Specifications for Construction", Current Edition, as published by the Oregon Department of Transportation (ODOT).
- "Oregon Standard Drawings" latest edition, as published by ODOT.
- "City of Happy Valley Engineering Design and Standard Details Manual", latest edition.

00130.40 Contract Submittals - Delete this sub-section and replace with the following:

See Bid Documents.

00130.70 Release of Bid Guaranties - Delete this sub-section and replace with the following:

Security deposited by unsuccessful bidders will be returned as soon as practicable after the bid opening.

END OF SECTION

SECTION 00140 - SCOPE OF WORK

Comply with Section 00140 of the Standard Specifications supplemented and/or modified as follows:

00140.30 Agency-Required Changes in the Work - Delete and replace the last paragraph with the following:

Upon receipt of an Engineer's written order modifying the Work, the Contractor shall perform the Work as modified.

If an Amendment incorporating changes to the Work increases the Contract amount, the Contractor shall notify its Surety of the increase and shall provide the Agency with a copy of any resulting modification to bond documents. The Contractor's performance of Work pursuant to Amendments shall neither invalidate the Contract nor release the Surety. Payment for changes in the Work shall be made in accordance with 00195.20. Contract Time adjustments shall be made in accordance with 00180.80.

END OF SECTION

SECTION 00150 - CONTROL OF WORK

Comply with Section 00150 of the Standard Specifications supplemented and/or modified as follows:

00150.00 Authority of the Engineer - Delete and replace the first sentence with the following:

Except as indicated elsewhere in the Contract (e.g. Amendment approval by the City), the Engineer has full authority over the Work and its suspension.

00150.05 Cooperative Arrangements - Delete this sub-section.

00150.15 Construction Stakes, Lines and Grades: Delete and replace the 1st (first) bullet of sub-section **00510.15(b) – Agency Responsibilities** with the following bullet points:

- The Engineer or designated representative shall provide survey services and identify and mark in the field the project work limits. The contractor is responsible for the rules regarding utility verification and marking.

00150.35 Plans, 3D Engineered Models, Working Drawings, and 3D Construction Models: Modify sub-sections as follows:

(1) Paper Submittals: Add the following to this sub-section:

Drawing dimensions of 22 by 34 inches are allowed.

(2) Electronic Submittals: Delete and replace this sub-section with the following:

The Contractor shall submit electronic Working Drawings in AutoCAD format, and in accordance with guidance provided by request from the Engineer.

00150.40 Cooperation and Superintendence by the Contractor – Add the following paragraphs to the end of this sub-section:

The contractor shall, at his own expense, procure all permits, certificates and licenses required of him by law for the execution of his work. He shall comply with all federal, state and local laws, ordinances or rules and regulations relating to performance of the work. All construction work shall be performed in conformance with the requirements of the Oregon State Department of Environmental Quality, the Environmental Protection Agency and the Agency.

The contractor acknowledges that he has satisfied himself as to the nature and location of the work; the general and local conditions, particularly those bearing upon availability of transportation, disposal, handling and storage of materials; availability of labor, water, electric power, roads; uncertainties of weather, or similar physical conditions at the site; the conformation and conditions of the ground; the character of equipment and facilities needed preliminary to and during the prosecution of the work; and all other matters which can in any way affect the work or the cost thereof under this Contract.

The contractor further acknowledges that he has satisfied himself as to the character, quality, and quantity of surface materials to be encountered from inspecting the site, all exploratory work done by the Agency, as well as from information presented by the drawings and specifications made a part of this Contract.

Any failure by the contractor to acquaint himself with all the available information will not relieve him from responsibility for properly estimating the difficulty or cost of successfully performing the work.

The contractor warrants that as a result of his examination and investigation of all the aforesaid data that he can perform the work in a good and workmanlike manner and to the satisfaction of the Agency. The Agency assumes no responsibility for any representations made by any of its officers or agents during or prior to the execution of this Contract, unless (1) such representations are expressly stated in the Contract, and (2) the Contract expressly provides that the responsibility therefore is assumed by Agency. Representations for which liability is not expressly assumed by the Agency in the Contract shall be deemed only for the information of the contractor.

00150.50 Cooperation with Utilities: Modify sub-section as follows:

(a) General: Add the following to this sub-section:

There may be other utility servers who are not specifically listed in these Special Provisions or on the Plans that may be adjusting or inspecting their facilities within the project limits.

(c) Contractor's Responsibilities: Add the following to this sub-section:

- All coordination with utilities, including but not limited to water, sewer, power, NW Natural, telecommunications and internet, shall be accomplished by the Contractor prior to construction. No extra costs for damages or delay will be approved as a result of a failure to contact utilities or arrange sufficient time for utility infrastructure construction.
- Portland General Electric (PGE) shall be notified by the Contractor prior to relocation of existing power poles. The Contractor shall provide PGE with 14-day advance notice for scheduling.
- Sunrise Water Authority (SWA) shall be notified by the Contractor prior to installation of water services and relocation of existing meters and tapping of water mains. The Contractor shall provide SWA with 48-hour advance notice for scheduling. Hydrants shall be relocated by SWA. All other water appurtenances are installed by the

Contractor. The contractor is responsible for coordination with the Agency concerning this matter.

- Use of Water for construction - A hydrant permit will need to be purchased from SWA if water is needed for construction.
- NW Natural shall be notified if existing gas valves or lines need to be relocated on King Road or any other area of the project.
- Clackamas County Water Environmental Services (WES) shall be notified by the Contractor prior to construction of sewer laterals and tapping of existing sewer mains. The Contractor shall provide WES with 48-hour advance notice for scheduling. WES shall perform all tapping of existing sewer mains.
- The Contractor shall be responsible for determining the exact utility location with the assistance of the utilities companies and to properly account for the possible interference of utility infrastructure with his operations.
- In the event of an interruption of utility services by the Contractor operations, the Contractor is solely responsible for repair costs and/or penalties accrued as a result of the interruptions. All planned interruptions of service shall be coordinated with Owner and operators and kept to a minimum.

(f) Utility Information: Add the following to this sub-section:

The following organizations have utilities in the project area (Note: There may be other utility servers who are not specifically listed that have utilities in the project area and may be adjusting, relocating and/or inspecting their facilities within the project limits):

Utility and Representative

Clackamas County Water Environment Services

Contact – Zach Koellermier
150 Beavercreek Rd.
Oregon City, OR 97045
Phone # 503-709-2160

Northwest Natural Gas

Contact – Kim Deletts
220 NW Second Ave.

Portland, OR 97209
Phone # 503-226-4211 x4539

Sunrise Water Authority

Contact – Dan Fraijo
10602 SE 129th Avenue
Happy Valley, OR 97086
Phone # 503-761-0220

Other Utilities

This Project is located within the Oregon Utility Notification Center area which is a Utilities notification system for notifying owners of Utilities about Work being performed in the vicinity of their facilities. The Utilities notification system telephone number is 811 or 800-332-2344.

00150.70 Detrimental Operations - Add the following to the end of this sub-section:

Portions of this project will be constructed in close proximity to existing private improvements. All private improvements disturbed by the Contractor's operations shall be repaired or replaced to equal or better condition at the Contractor's expense. In addition, prior to construction, the Contractor shall provide to the Engineer videotape showing private property which may be disturbed during construction.

END OF SECTION

SECTION 00160 - SOURCE OF MATERIALS

Comply with Section 00160 of the Standard Specifications supplemented and/or modified as follows:

00160.01 Notification of Source of Supply and Materials – Modify this sub-section as follows:

(a) All Materials – Delete last two paragraphs regarding DBE suppliers.

00160.20 Preferences for Materials - Add "Federal Highway funds are **NOT** involved on this Project."

END OF SECTION

SECTION 00165 – QUALITY OF MATERIALS

Comply with Section 00165 of the Standard Specifications supplemented and/or modified as follows:

00165.03 Testing by Agency – Delete verbiage in this sub-section and replace with the following:

No testing will be performed by the City. All testing shall be the responsibility of the Contractor.

00165.04 Cost of Testing – Delete verbiage in this sub-section and replace with the following:

All testing required to be performed by the Contractor will be considered incidental and will be at the Contractor's expense. Compaction testing required on engineered fill, trench backfill and HMAC.

Refer to Section 00745.00 for testing requirements.

00165.10 (Materials Acceptance Guides) through 00165.91 (Fabrication Inspection Expense) – Delete these sub-sections in their entirety.

END OF SECTION

SECTION 00170 - LEGAL RELATIONS AND RESPONSIBILITIES

Comply with Section 00170 of the Standard Specifications supplemented and/or modified as follows:

00170.02 Permits, Licenses, and Taxes – Add the following specifications to the end of this sub-section:

This project is to be constructed in City of Happy Valley road right of way and streets. The contractor and any subcontractors shall have a current business license with the City of Happy Valley. There are no separate road opening permits required from the City to perform the work required under this contract.

00170.61 Industrial Accident Protection – Delete last phrase in

(a) **Workers' Compensation**, "...by 00170.70(d)", and replace with the following:

...by "Contract for Services" agreement.

00170.67 Fees – Add this sub-section and the following specifications:

The fee required by ORS 279C.825(1) will be paid by the City to the Commissioner of the Oregon Bureau of Labor and Industries under the administrative rules of the Commission.

00170.70 Insurance – Delete verbiage in this sub-section and replace with the following:

See Certificate of Insurance (CONTRACT DOCUMENTS) and SECTION IV of the “Contract for Services” (CONTRACT DOCUMENTS) agreement.

Add the following as Additional Insured's under the Contract:

- City of Happy Valley and its officers, agents, and employees
- City of Happy Valley City Councilors

00170.72 Indemnity/Hold Harmless – Add the following paragraph & bullet items to the end of this sub-section:

Extend indemnity and hold harmless to the Agency and the following:

- City of Happy Valley and its officers, agents, and employees
- City of Happy Valley City Councilors

00170.85 Responsibility for Defective Work – Add the following specification to the end of **(b)(2) Contractor Furnished Warranties; General Warranty for Local Agency Projects**

The term limit for warranties and additional warranties shall be two years from date of final acceptance.

END OF SECTION

SECTION 00180 - PROSECUTION AND PROGRESS

Comply with Section 00180 of the Standard Specifications supplemented and/or modified as follows:

00180.06 Assignment of Funds Due Under the Contract - Delete first bulleted item.

00180.20 Subcontracting Limitations – Delete sub-section 00180.20(d).

00180.21 Subcontracting - Add the following to sub-section to the end of **(a) General**:

All contracts with subcontractors or suppliers shall have provisions making the contract assignable to the City, at the option of the City, if the Contractor terminates, goes out of business, declares bankruptcy, or otherwise is unable to perform provided that the City gives

the subcontractor notice of assignment within fourteen (14) days of learning of the inability of the Contractor to perform.

00180.40 Limitation of Operations - Add the following to sub-section 00180.40(a):

Construction shall be limited to Monday through Friday to eliminate the need for overtime work. Contractor shall observe construction hours limitations as defined in the latest edition of the City's Design Manual and Standard Details, Dwg. No. 350.

Add the following sub-section 00180.40(c):

00180.40(c) Specific Limitations - Limitations of operations specified in these Special Provisions include, but are not limited to, the following:

Limitations	Sub-section
Contract Completion Time	00180.50(h)
Traffic Lane Restrictions	00220.40(e)
Noise Control	00290.32

Be aware of and subject to schedule limitations in the Standard Specifications that are not listed in this sub-section.

00180.41 Project Work Schedules - Add the following:

A type "B" schedule is detailed in the Standard Specifications is required on this Contract.

(a) Type "B" Schedule

(1) Detailed Schedule – Add the following specifications to the end of this sub-section:

In addition, a three-week look ahead schedule shall be prepared by the Contractor at the beginning of the project and submitted to the Engineer. It shall include all construction activities planned for the following three-week period. The three-week look ahead schedule can be hand- written and shall be in a format agreed upon by the Contractor and the Engineer. Weekly updates to the schedule shall be communicated to the City.

COVID-19 Physical Distancing Plan

Bidder must submit a work plan or written description explaining how the bidder will meet all Center for Disease Control (CDC) and Oregon Health Authority (OHA) recommendations on physical distancing and personal protective equipment to slow the spread of COVID-19. The City may request updated plans as recommendations change and actions should reflect current recommendations at the time of construction. This plan may be a word document or

work plan outline how physical distancing will be met while performing work as described in the scope of work.

The City has the ability to adjust the project schedule due to state mandates.

00180.42 Preconstruction Conference – Delete verbiage in this sub-section and replace with the following:

A preconstruction conference shall be held before the project begins, at a time mutually agreed upon by the City and Contractor.

In addition to the Contractor, the intended project superintendents, on site supervisor and subcontractor foremen – those who will actually be supervising construction activities – should attend the preconstruction conference. The Contractor must be prepared for a thorough discussion and review, as well as revision, which may be deemed necessary in the opinion of the Engineer, of the following:

(Note: These materials shall be brought to the preconstruction conference for discussion followed by Engineer review.)

- Contractor's plan of operation, public notification and progress schedule.
- List of 24 hour phone numbers for the project manager, site foreman, and traffic control supervisor.
- List of subcontractors, names, addresses and phone numbers.
- Traffic Control Plan.

During the preconstruction conference, be prepared to discuss the following items:

- Responsibility for damage
- Hours of work
- Sequencing of work
- Public notification procedures
- Procedures for parked vehicles that obstruct the work
- Acceptance and approval of work
- Labor compliance, payrolls, and certifications
- Safety regulations for Contractor's and City's employees and representatives
- Suspension of work, time extensions
- Change order procedures
- Any interpretation of the Contract Documents requested by the Contractor
- Any conflicts or omissions in Contract Documents
- Any other problems or questions concerning the work

00180.43 Commencement and Performance of Work – Add the following bullet point to this sub-section:

- Conduct the work at all times in a manner and sequence that will insure minimal interference with traffic. The Contractor shall not begin work that will interfere with work already started. If it is in the City's best interest to do so, the City may require the Contractor to finish a portion or unit of the project on which work is in progress or to finish a construction operation before work is started on an additional portion or unit of the project.

00180.50 Contract Time to Complete Work

(h) Contract Time – Add this sub-section and the following specifications:

Construction is to be completed no later than **April 2, 2021**. Once construction on the project has begun, the contractor must reach substantial completion within **160** days of commencing activity.

Recording of the elapse of Calendar Days will begin on the day the Contractor begins On Site Work as defined in 00110.20

00180.70 Suspension of Work

(a) General – Add the following specifications to the first bullet item:

If the Inspector has reason to believe that any safety provisions are not being adhered to, the Inspector will immediately notify the Contractor's site foreman and/or the appropriate person and the City Project Manager. The purpose of this discussion is to determine the validity of the alleged violation. This will also allow the Contractor a reasonable amount of time to correct or improve any of the provisions for the safety on this project. If the City Project Manager finds the problem still unresolved or uncorrected, they will notify the Contractor's Project Manager and the City's Risk Management Safety Analyst. If the City's Risk Management Safety Analyst finds that the job site contains any unresolved safety issues, they will take appropriate action up to and including suspension of the Contractor's operations on all or part of the Work.

00180.85 Failure to Complete on Time; Liquidated Damages

(b) Liquidated Damages – Add the following specifications to the end of this sub-section:

The liquidated damages for failure to complete the Work on time required by 00180.50(h) will be as follows:

Complete all work to be done under the Contract by the date as required by 00180.50(h). Once construction on the project has begun, the contractor must reach substantial completion within the time frame as required by 00180.50(h) of commencing activity.

The daily amount of the liquidated damages will be \$500 per Calendar Day* for failure to reach substantial completion within 150 days of commencing work and/or for failure to complete work on-time as required by 00180.50(h).

*Calendar Day amounts are applicable when the Contract time is expressed on the Calendar Day or fixed date basis.

END OF SECTION

SECTION 00190 - MEASUREMENT OF PAY QUANTITIES

Comply with Section 00190 of the Standard Specifications supplemented and/or modified as follows:

00190.20 Contractor to Provide Vehicle Weigh Scales: Delete and replace sub-section 00190.20(g) with the following:

The Contractor must provide a weigh technician. The Agency will not provide one for the Contractor.

END OF SECTION

SECTION 00195 - PAYMENT

Comply with Section 00195 of the Standard Specifications supplemented and/or modified as follows:

00195.12 Steel Material Price Escalation/De-Escalation Clause – Delete this sub-section in its entirety.

00195.50 Progress Payments and Retained Amounts – Modify these sub-sections as follows:

(a) Progress Payments

(1) Progress Estimates – Delete the first sentence in this sub-section and replace with the following:

At a regular period each month to be determined at the Preconstruction Conference, the Contractor will make an estimate of the amount and value of pay item work completed and in place. This estimate will be submitted to the Project Manager for approval.

(4) Limitations on Value of Work Accomplished – Delete the phrase “Engineer’s estimate” in this sub-section and replace with the following:

“Contractor’s estimate”

(b) Retainage – Delete the first paragraph in this sub-section and replace with the following:

The amount to be retained from progress payments will be 5.0% of the value of Work accomplished and will be retained in one of the forms specified in sub-section 00195.50(c), including the modifications specified below. The City will withhold Retainage from all force account and change order work.

(c) Forms of Retainage – Delete the first paragraph in this sub-section and replace with the following:

Forms of acceptable retainage are set forth below in sub-section 00195.50(c)(1) through (3). "Cash, Alternate A" or "Cash, Alternate B" are the Agency-preferred forms of retainage. Unless the Contractor notifies the City otherwise in writing, the City will automatically hold retainage per sub-section 00195.50(c)(2) "Cash, Alternate B (No Interest Earned)." If the Agency incurs additional costs as a result of the Contractor's election to use "Bonds and Securities", the Agency may recover such costs from the Contractor by a reduction of the final payment.

(2) Cash, Alternate B (Retainage Surety Bond)

Delete this sub-section in its entirety.

(2) Cash, Alternate B (No Interest Earned)

Add this sub-section and the following specifications:

Retainage will be deducted from progress payments and held by the Agency until final payment is made in accordance with 00195.90, unless otherwise specified in the Contract.

END OF SECTION

SECTION 00199 - DISAGREEMENTS, PROTESTS AND CLAIMS

Comply with Section 00199 of the Standard Specifications supplemented and/or modified as follows:

00199.30 Claims Procedure – Add the following sentence immediately before

(a) General:

The Contractor must properly submit a claim as detailed in this sub-section, 00199.30.

00199.40 Claim Review Procedure – Delete verbiage in this sub-section and replace with the following:

The Engineer will, as soon as practicable, consider and investigate a Contractor's properly submitted claim for additional compensation. The Engineer will advise the Contractor of the decision to accept or reject the claim, and the reasons for rejecting any part of the claim.

The City intends to resolve claims at the lowest possible level.

Upon request by the Contractor, the Project Manager will review the Engineer's decision on the claim and advise the Contractor of the decision in writing. If the Project Manager finds the claim has merit, an equitable adjustment will be offered. If the Project Manager finds the claim has no merit, no offer of adjustment will be made, and the claim will be denied.

If the Contractor does not accept the Project Manager's decision, then the Contractor shall commence any suit or action to collect or enforce any claim filed in accordance with 00199.30 within a period of one (1) year following the mailing of the decision or within one (1) year following the date of "Second Notification", whichever is later. If said suit or action is not commenced in said one (1) year period, the Contractor expressly waives any and all claims for additional compensation and any and all causes of suit or action for the enforcement thereof that he might have had.

END OF SECTION

SECTION 00210 - MOBILIZATION

Comply with Section 00210 of the Standard Specifications supplemented and/or modified as follows:

00210.00 Scope – Delete this section and substitute the following:

This work consists of operations and preparatory work necessary to become ready to perform the work or an item of work. A portion of this work shall be considered "Demobilization" and shall include but not be limited to site cleanup including offsite borrow and waste areas, staging areas including the restoration and/or removal of debris, rubbish, unused materials, equipment and tools.

END OF SECTION

SECTION 00220 - ACCOMMODATIONS FOR PUBLIC TRAFFIC

Comply with Section 00220 of the Standard Specifications supplemented and/or modified as follows:

00220.02 Public Safety and Mobility

(b) Temporary Pedestrian Accessible Route Plan – Add the following bullet point to this sub-section:

- Do not place work zone signs or supports that will block existing or temporary pedestrian access routes.

(c) Bicyclists – Add the following bullet point to this sub-section:

- Do not place work zone signs or supports that will block existing or temporary bicycle access routes.

00220.40 General Requirements

(e) Lane Restrictions – Delete verbiage in this sub-section and replace with the following:

Contractor shall not close any traffic lanes, and all barricades and objects from the roadway shall be removed by 6:00 p.m. all days or during the following periods, whichever is earliest:

(1) Weekdays:

- All times outside City's Construction Hours Restrictions.
- See City's Construction Hours Notice Sign Standard Detail, current version available on the City of Happy Valley website.

(2) Weekends:

- Between 5 p.m. on Friday and 7 a.m. on Monday.

(3) Days when School is in Session:

- Contractor to follow construction hours conditions as provided by the City Engineer or designated representative.

(4) Holidays and Special Events:

- Comply with ODOT Standard Specifications Sub-section 00220.40(e)(2).

END OF SECTION

SECTION 00225 - WORK ZONE TRAFFIC CONTROL

Comply with Section 00225 of the Standard Specifications, modified as follows.

00225.02 General Requirements – Add the following specifications to the end of this sub-section:

Temporary stop bar markings shall be installed at the end of each work day as needed, prior to resumption of two-way traffic.

00225.05 Contractor Traffic Control Plan – Delete verbiage in this sub-section and replace with the following:

The Contractor shall submit a Traffic Control Plan at the Pre-Construction Conference for all components of this project. The contractor shall provide a temporary pedestrian traffic control plan for City review.

One lane of traffic shall remain open at all times to emergency vehicles and school buses. This traffic shall be given priority access through the work zone regardless of street reconstruction.

00225.90 Payment – Delete verbiage in this sub-section and replace with the following:

Costs for temporary protection and direction of traffic, temporary street signage, striping, and appurtenances, and all other incidental costs incurred will be paid for at the Contract lump sum amount for the item "Work Zone Traffic Control & Public Notification". Payment will be in full for furnishing, installing, moving, operating, maintaining, inspecting and removing materials required to complete the work as specified.

END OF SECTION

SECTION 00280 – EROSION AND SEDIMENT CONTROL

Comply with Section 00280 of the Standard Specifications supplemented and/or modified as follows:

00280.14 through 00280.16 Materials – Delete these sub-sections.

00280.17 Materials – Add this sub-section and the following specifications:

All materials for erosion, runoff, and sediment control shall comply with requirements in the City of Happy Valley Design Manual and Clackamas County Water Environment Services Erosion Prevention and Sediment Control Planning and Design Manual.

All materials for erosion, runoff, and sediment control shall comply with requirements in the City of Happy Valley Design Manual and Clackamas County Water Environment Services Erosion Prevention and Sediment Control Planning and Design Manual.

00280.90 Payment – Delete this sub-section and replace as follows:

All costs for labor and materials for installation, maintenance, and repairs for erosion and sediment control BMPs and regulatory compliance will be paid for at the Contract lump sum amount for the item "Erosion and Sediment Control". Payment will be in full for furnishing, installing, moving, operating, maintaining, inspecting and removing materials required to complete the work as specified in the Erosion and Sediment Control Plan specified in the Plan Set.

END OF SECTION

SECTION 00290 – ENVIRONMENTAL PROTECTION

Comply with Section 00290 of the Standard Specifications supplemented and/or modified as follows:

00290.30 Pollution Control

(b) Pollution Control Plan – Delete the final paragraph of this sub-section and replace with the following:

All Pollution Control Plan information is included throughout the Contract Drawings on the construction plans, notes, and detail sheets.

00290.90 Payment – Delete verbiage in this sub-section and replace with the following:

Payment for pollution control is to be incidental to the project.

END OF SECTION

SECTION 00310 – REMOVAL OF STRUCTURES AND OBSTRUCTIONS

Comply with Section 00310 of the Standard Specifications.

END OF SECTION

SECTION 00320 – CLEARING AND GRUBBING

Comply with Section 00320 of the Standard Specifications supplemented and/or modified as follows:

00320.41 Grubbing Operations - Add the following verbiage at the end of the section:

Prior to placement of embankment fill or retaining walls the Engineer must approve all grubbing, stripping and benching.

END OF SECTION

SECTION 00330 – EARTHWORK

Comply with Section 00330 of the Standard Specifications supplemented and/or modified as follows:

00330.02 Definitions – Add the following to the definition of “General Excavation”:

Excavation includes all curbs, ramps, walks, surfacing, aggregate and earthwork as necessary to excavate or fill to subgrade depth for the proposed curb, ramps, walks, retaining wall, bridge, storm drain utilities and other structures as shown on the Plans and in the typical sections. Excavation also includes any necessary and/or required saw cutting of surfaces.

00330.03 Basis of Performance – Add the following to this sub-section prior to sub-sections 00330.03(a) through (c):

Perform all earthwork under this sub-section on the excavation basis.

00330.41 Excavations – Modify sub-sections 00330.41(a)(6) and (a)(9)(c) as follows:

(a)(6) Excavation of Existing Surfaces – Add the following to the end of this sub-section:

Remove surfacing as shown on the Plans. Surfacing to be removed shall be cut in neat, straight lines with vertical edges along the limits of pavement removal. The cut lines for removal of asphaltic or cement concrete pavement shall be favorably reviewed by the Engineer in the field before cutting.

(a)(9)(c) Unstable Subgrade Material– Delete this sub-section in its entirety.

00330.91(d) General Excavation – Delete the last bulleted item.

00330.91(d) General Excavation – Add the following bulleted items to the end of this sub-section:

- No payment will be made for removal of any item outside the limits shown in the Contract without written authorization from the Engineer. Similarly, no payment will be made for additional materials required in areas of excess removal outside the limits shown on the Plans without prior authorization from the Engineer.

END OF SECTION

SECTION 00350 – GEOSYNTHETIC INSTALLATION

Comply with Section 00350 of the Standard Specifications supplemented and/or modified as follows:

00350.10 Materials - Add the following to the end of this sub-section:

Provide manufacturer's test result certificates complying with 02320.10(c)(1) of the Standard Specifications for Type 2 drainage geotextiles.

END OF SECTION

SECTION 00405 – TRENCH EXCAVATION, BEDDING AND BACKFILL

Comply with Section 00405 of the Standard Specifications supplemented and/or modified as follows:

00405.41 Trench Excavation – Modify sub-sections 00405.41 (b) as follows:

(b) Open Trench Limit – Add the following to the end of this sub-section

Backfill trenches at the end of each work day and temporarily pave the surface with hot mix asphalt. Do not leave trench open outside of working hours. Clean work area and roadway surrounding trench of any loose material or aggregate prior to leaving site at the end of each day. Control dust in accordance with Section 00280.44(c) as directed by the Engineer.

00405.82 Trench Foundation – Delete and replace the indented bullet labeled “Width” as follows:

- **Width** – The width will be the minimum trench width as defined in sub-section 00405.41(c) of the Special Provisions unless otherwise approved by the Engineer.

00405.90 Payment – Delete this sub-section and replace as follows:

No separate or additional payment will be made for trenching. This work will be paid for under Section 00445.

END OF SECTION

SECTION 00430 – SUBSURFACE DRAINS

Comply with Section 00445 of the Standard Specifications.

END OF SECTION

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

Comply with Section 00445 of the Standard Specifications.

END OF SECTION

SECTION 00470 – MANHOLES CATCH BASINS, AND INLETS

Comply with Section 00470 of the Standard Specifications supplemented and/or modified as follows:

00470.00 Scope – Add the following specifications to the end of this sub-section:

All manhole, catch basin, and inlet installation requirements in this section shall also meet the requirements of Water Environmental Services (WES of Clackamas County).

END OF SECTION

SECTION 00490 – WORK ON EXISTING SEWERS AND STRUCTURES

Comply with Section 00490 of the Standard Specifications supplemented and/or modified as follows:

00490.00 Scope – Add the following specifications to the end of this sub-section:

All work on existing sewers and structures shall also meet the requirements of the City of Happy Valley, which shall also meet the requirements of Water Environmental Services (WES of Clackamas County).

END OF SECTION

SECTION 00495 – TRENCH RESURFACING

Comply with Section 00495 of the Standard Specifications.

END OF SECTION

SECTION 00596B – PREFABRICATED MODULAR RETAINING WALLS

Comply with Section 00596B of the Standard Specifications supplemented and/or modified as follows:

00596B.01 Proprietary Prefabricated Modular Walls – The prefabricated modular wall systems are as follows; Sheets C7, C8, C13 and C14, The modular product wall system is to be constructed using "Ultrablock" products or similar. Sheet C23, the modular product wall system is to be constructed using "Manorstone" products or similar.

00596B.80 Measurement – Delete the first sentence of the of this section concerning measurement of quantities for retaining walls:

00596B.90 Payment – Delete this sub-section and replace as follows:

The work will be paid for at the contract unit price per square foot of the exposed vertical face of the wall.

END OF SECTION

SECTION 00596C – CAST-IN-PLACE CONCRETE RETAINING WALLS

Comply with Section 00596C of the Standard Specifications.

END OF SECTION

SECTION 00620 – COLD PLANE PAVEMENT REMOVAL

Comply with Section 00620 of the Standard Specifications.

END OF SECTION

SECTION 00641 – AGGREGATE SUBBASE, BASE, AND SHOULDERS

Comply with Section 00641 of the Standard Specifications supplemented and/or modified as follows:

00641.10 Materials

(a) Base and Shoulder Aggregate— Delete verbiage in this sub-section and replace with the following:

All aggregate used for leveling, repair, or any other purpose shall be 3/4"-0" crushed aggregate, per City of Happy Valley Engineering Design Manual (EDM) and Standard Detail Drawings (SDD). 1-1/2"-0" crushed aggregate is allowed for base rock course per Happy Valley EDM and SDD.

END OF SECTION

SECTION 00730 – EMULSIFIED TACK COAT

Comply with Section 00730 of the Standard Specifications supplemented and/or modified as follows:

00730.44 Applying Tack Coat – Delete second sentence (beginning with "Apply the Emulsified...") in this sub-section and replace with the following:

"Apply the Emulsified Asphalt to the prepared surface at a rate between 0.05 and 0.10 gallons per square yard as directed and..." (Remainder of sentence not modified).

00730.90 Payment – Delete verbiage in this sub-section and replace with the following:

No separate or additional payment will be made for emulsified asphalt tack coat. This work will be considered incidental to the contract.

END OF SECTION

SECTION 00744 –ASPHALT CONCRETE PAVEMENT

Comply with Section 00744 of the Standard Specifications supplemented and/or modified as follows:

00744.02 Definitions – Add the following definition(s) to this sub-section:

Sublot Size – 500 tons of HMAC/WMAC, or the amount of HMAC/WMAC placed in a day if less than 500 tons is placed.

00744.11(a) Asphalt Cement – Delete the sentence in this sub-section that begins with “Provide asphalt cement...” and replace as follows:

Use PG 64-22, Level 3 HMAC/WMAC pavement on this Project.

00744.48 Compaction, QC – Add the following sub-section:

Provide a technician certified in density testing (CDT).

00744.49 Compaction – Delete this sub-section and replace as follows:

Immediately after the asphaltic concrete material has been spread, struck off, and surface irregularities and other defects remedied, roll it uniformly with rollers meeting the requirements of 00744.24. Unless otherwise specified, compact the asphaltic mixture to a minimum of 91% MAMD. The density of each sublot shall be determined by averaging five QC tests performed at random locations by a CDT with the nuclear gauge operated in the backscatter mode according WAQTC TM 8. Calculate MAMD according to ODOT TM 305. When less than three sublot test results are obtained on a project, the MHMAC will be accepted according to 00745.17. Perform a minimum of one sublot density test per day. The Engineer may waive compaction testing upon written notice. Perform finish rolling as needed until all roller marks are eliminated.

END OF SECTION

SECTION 00759 – MISCELLANEOUS PORTLAND CEMENT CONCRETE STRUCTURES

Comply with Section 00759 of the Standard Specifications supplemented and/or modified as follows:

00759.00 Scope – Modify this sub-section by adding the sentence(s) and reference(s) as follows:

The Work consists of new and retrofitted corner intersection and mid-block accessible ramps. The Work must comply with United States Access Board's Public Right-of-Way Accessibility Guidelines (PROWAG). PROWAG requirements may be accessed at:

<https://www.access-board.gov/guidelines-and-standards/streets-sidewalks/public-rights-of-way/proposed-rights-of-way-guidelines>

00759.12 Sidewalk Ramp Treatment – Modify this sub-section by adding the sentence(s) as follows:

All truncated domes mats on the project for ADA sidewalk ramps shall be cast-in-place tiles placed at the throat of the ramp with dimension of 4'x2' or 5'x2' to span width of ramp throat. Safety yellow color shall be used.

Only cast-in-place or tile type tactile systems will be approved. All adhesive or molded type tactile systems will not be allowed.

00759.51 Curing - Modify this sub-section by adding the sentence(s) as follows :

Do not apply curing compounds to the designated truncated dome areas of sidewalk ramps and accessible route islands.

00759.90 Payment – Delete Pay Item (m) in this sub-section and replace as follows:

The payment for concrete sidewalk and ramps will be paid per the square yard at the Contract unit price per unit measurement:

Pay Item	Unit of Measurement
(m) Concrete Sidewalks and Ramps	Square yard
(m) Concrete Curb and Gutter	Linear Foot
(m) 6" Concrete Driveway	Square Yard
(m) Stormwater Planter Endwalls and Checkdams	Each
(m) Stormwater Planter Walls Thickened Curb and Gutter	Linear Foot
(m) Stormwater Planter Walls Sidewalk Wall with Batter	Linear Foot

00759.90 Payment – Delete the paragraph that begins, "In item (a) the type of curb....." and replace as follows:

In item (a) the type of curb, or curb and gutter, will be inserted in the blank, if appropriate. This work includes constructing the curb, or curb and gutter, with a lip in locations as shown on the Contract plans.”

00759.90 Payment – Add paragraphs to this sub-section as follows:

In item (a), (e) and (l), Delete payment for aggregate, aggregate will be paid under the line item as shown in the Schedule of Values.”

The payment shall include removal and replacement of existing structures.

END OF SECTION

SECTION 00865 – LONGITUDINAL PAVEMENT MARKINGS – DURABLE

Comply with Section 00865 of the Standard Specifications modified as follows:

00865.50 Placement – Add the following specifications to the end of this sub-section:

Only method AB shall be used.

00865.90 Payment – Replace this Subsection with the following:

Payment for Longitudinal Pavement Markings shall be paid under the Lump Sum bid item "Thermoplastic Pavement Striping”.

END OF SECTION

SECTION 00867 – TRANSVERSE PAVEMENT MARKINGS – LEGENDS AND BARS

Comply with Section 00867 of the Standard Specifications supplemented and/or modified as follows:

00867.45 Installation – Delete the following bullet items in this sub-section:

- Type C: Cold-Applied Plastic Film
- Type D: Methyl Metacrylate

00867.50 Placement – Add this sub-section and the following specifications:

Contractor to place markings as follows:

- Stop Bar: 12"-wide white thermoplastic bars at every location where a stop sign is present, in accordance with City Standard Details.
- Engineer to verify location and extents of all markings prior to application.

00867.90 Payment – Replace this Subsection with the following:

Payment for Transverse Pavement Markings shall be paid under the Lump Sum bid item "Thermoplastic Pavement Striping".

END OF SECTION

SECTION 00905 – REMOVAL AND REINSTALLATION OF EXISTING SIGNS

Comply with Section 00905 of the Standard Specifications.

END OF SECTION

SECTION 00930 – METAL SIGN SUPPORTS

Comply with Section 00930 of the Standard Specifications modified as follows:

00930.01 Definitions and Terms:

Multi-Post Breakaway Sign Supports – Replace this subsection with the following:

The complete structure is composed with a sign support anchor (V-Loc), Tapco, V-Loc, Model 200-VS2 or steel plate bolted to the concrete sidewalk or cored into the sidewalk.

END OF SECTION

SECTION 00940 – SIGNS

Comply with Section 00940 of the Standard Specifications modified as follows:

00940.90 Payment – Replace this Subsection with the following:

Payment for traffic signs shall be paid at the Contract unit price per each sign.

END OF SECTION

SECTION 001030 – SEEDING

Comply with Section 001030 of the Standard Specifications.

END OF SECTION

SECTION 001040 – PLANTING

Comply with Section 001040 of the Standard Specifications modified as follows:

01040.19(a) Nomenclature – Add the following to the end of the Subsection:

Roadside Stormwater Planter plants and soils shall comply with Appendix A - *Facility Planting Guidance* of the City of Oregon City Stormwater and Grading Design Standards.

01040.90(g) Payment – Add the following to the end of the Subsection:

(e) Stormwater Planter Herbaceous Plant and Ground Cover Square Yard

END OF SECTION

SECTION 001050 – FENCES

Comply with Section 001050 of the Standard Specifications.

END OF SECTION

SECTION 001070 – MAILBOX SUPPORTS

Comply with Section 001070 of the Standard Specifications.

END OF SECTION

SECTION 001160 – HYDRANTS AND APPURTENANCES

Comply with Section 001160 of the Standard Specifications.

END OF SECTION

SECTION 001170 – POTABLE WATER SERVICE CONNECTIONS, 2-INCH AND SMALLER

Comply with Section 001170 of the Standard Specifications and the Specifications for the Sunrise Water Authority attached in Exhibit B. In the case of a conflict between the two, the Sunrise Water Authority specifications take precedence.

END OF SECTION

SECTION 002415 – PLASTIC PIPE

Comply with Section 002415 of the Standard Specifications.

END OF SECTION

SECTION 002420 – METAL PIPE

Comply with Section 002420 of the Standard Specifications modified as follows:

002420.10 Corrugated Steel Pipe and Pipe Arches – Modify this Subsection as follows:

Insert before "Furnish corrugated steel pipe, helical..." the following sentence, "All Aluminum pipe arches shall be furnished by Contech Engineered Solutions or equal manufacturer."

END OF SECTION

SECTION 002470 – POTABLE WATER PIPE MATERIALS

Comply with Section 002470 of the Standard Specifications.

END OF SECTION

SECTION 002475 – POTABLE WATER FITTING MATERIALS

Comply with Section 002475 of the Standard Specifications.

END OF SECTION

SECTION 003010 – FENCING MATERIALS

Comply with Section 003010 of the Standard Specifications.

END OF SECTION

PLANS, DRAWINGS AND EXHIBITS

Exhibit A - GeoPacific Engineering Inc. Geotechnical Report



Real-World Geotechnical Solutions
Investigation • Design • Construction Support

Revised September 25, 2020
Project No. 16-4393

Edward P. Hodges, P.E.
CURRAN-McLEOD, INC.
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Via email: eph@curran-mcleod.com

**SUBJECT: GEOTECHNICAL RECOMMENDATIONS FOR ARCH CULVERT CROSSING ON
SE KING ROAD
CITY OF HAPPY VALLEY 2020 PEDESTRIAN IMPROVEMENTS PHASE II
SE KING ROAD BETWEEN SE 132ND AVENUE AND SE MOUNTAIN GATE ROAD
HAPPY VALLEY, OREGON**

As requested, this report presents recommendations for an arch culvert crossing on the south side of SE King Road in Happy Valley, Oregon. It is our understanding that SE King Road is to be widened to the south between SE 132nd Avenue and SE Mountain Gate Road and that sidewalks are to be added on the south side of the roadway. Near where SE King Road crosses over Mount Scott Creek, retaining walls will be constructed in order to achieve the desired grade for the sidewalk adjacent to the roadway. Mount Scott Creek crosses under SE King Road through an existing 68-inch diameter metal pipe. Grades slope down from the side of SE King Road at a grade of about 50 percent. It is our understanding that a new arch culvert is proposed to span over the creek and the existing metal pipe in order to avoid impacting the existing pipe and the creek. The approximate location of the proposed arch culvert is shown on Figure 1.

We understand that the bridge will consist of an aluminum culvert. Concrete footings are proposed on each side of the culvert and the bottom of footing is to be approximately 443.00 feet. Based on conversations with the client, excavations cannot be made below an elevation of 442.00 feet amsl next to the creek without special permits, unless protective measures are utilized.

We understand that retaining walls are proposed to retain fill placed along the approaches to the arch culvert and along the top of the arch itself. The proposed locations of the retaining walls are indicated on Figure 2.

SUBSURFACE CONDITIONS

Our site-specific explorations for this report were conducted on September 4 and 8, 2020. We drilled four hand auger borings in the vicinity of the proposed arch culvert. These are hand auger borings HA-4, HA-5, HA-6, and HA-7. The approximately locations of our explorations are shown on the attached Site Plan (Figure 1). Many other hand auger borings were drilled in the vicinity of the arch culvert as part of a separate study. It should be noted that exploration locations were located in the field by pacing or taping distances from apparent property corners and other site

features shown on the plans provided. As such, the locations of the explorations should be considered approximate.

Explorations were conducted under the full-time observation of GeoPacific personnel. Soil samples obtained from the borings were classified in the field and representative portions were placed in relatively air-tight plastic bags. These soil samples were then returned to the laboratory for further examination. Pertinent information including soil sample depths, stratigraphy, soil engineering characteristics, and groundwater occurrence was recorded. Soils were classified in general accordance with the Unified Soil Classification System.

Summary exploration logs are attached. The stratigraphic contacts shown on the individual borehole logs represent the approximate boundaries between soil types. The actual transitions may be more gradual. The soil and groundwater conditions depicted are only for the specific dates and locations reported, and therefore, are not necessarily representative of other locations and times.

The following discussion is a summary of subsurface conditions encountered in our explorations. For more detailed information regarding subsurface conditions at specific exploration locations, refer to the attached exploration logs. Also, please note that subsurface conditions can vary between exploration locations, as discussed in the *Uncertainty and Limitations* section below.

Topsoil: Underlying the ground surface in hand auger borings HA-4, HA-5, and HA-7, we observed a layer of topsoil. This layer was generally highly organic, contained a significant amount of roots, and extended to a depth of about 6 inches.

Undocumented Fill: Underlying the topsoil layer in hand auger borings HA-4, HA-5, and HA-7, we observed undocumented fill material. In hand auger boring HA-4, this material generally consisted of gravelly SILT (ML) and extended to a depth of 12 inches below the ground surface. In hand auger boring HA-5, the fill material extended to a depth of 3.5 feet. In hand auger boring HA-5, from a depth of 6 inches to about 2.5 feet generally consisted of SILT (ML), but a nail was encountered at a depth of 2.5 feet and from a depth of 2.5 to 3.5 feet the fill material consisted of silty GRAVEL (GM). In hand auger boring HA-7, the fill material generally consisted of silty GRAVEL (GM). We encountered practical refusal on dense gravel fill material at a depth of 3 feet in hand auger boring HA-7.

Recent Alluvium: Underlying the ground surface in hand auger boring HA-6 and underlying the undocumented fill material in hand auger boring HA-4, we observed recently deposited fine-grained alluvial soils likely deposited by Mount Scott Creek. In hand auger boring HA-6, the recent alluvium soils extended to a depth of 5 feet below the ground surface. In hand auger boring HA-4 the recent alluvium soils extended to a depth of 3.5 feet below the ground surface. The recent alluvium soils were generally soft and had uneven bedding patterns. In hand auger boring HA-6, located just on the west side of the creek, the recent alluvium soils contained some fine to medium roots.

Residual Soil: Underlying the recent alluvium soils in hand auger borings HA-4 and HA-6, and underlying the fill material in hand auger boring HA-5, we observed residual soil, likely derived from in-place weathering of the underlying Boring Lava Formation. Residual soil extended beyond the maximum depths of exploration in hand auger borings HA-4 (5 feet) and HA-5 (12 feet). Residual soil extended to a depth of 5 feet in hand auger boring HA-6, at which depth we encountered practical refusal on weathered rock or a boulder.

Weathered Rock or Boulders: We encountered practical refusal on weathered rock or a boulder at a depth of 5 feet in hand auger boring HA-6. We encountered weathered rock and/or boulders in several other explorations nearby. We obtained practical refusal on weathered rock or a boulder at a depth of 5 feet in hand auger HA-8 and at a depth of 5.5 feet in hand auger HA-11.

Soil Moisture and Groundwater

On September 4 and 8, 2020, soil moisture levels in our hand auger borings were generally dry to very moist. However, in hand auger boring HA-6, which is located immediately west of Mount Scott Creek and extended below the level of water in the creek, we encountered groundwater seepage below a depth of about 3 feet. It is anticipated that groundwater conditions will vary depending on the season, local subsurface conditions, changes in site utilization, and other factors. Perched groundwater may be encountered in localized areas. Seeps and springs may exist in areas not explored and may become evident during site grading.

ARCH CULVERT FOUNDATION - DESIGN AND CONSTRUCTION RECOMMENDATIONS

The proposed arch culvert is to span over Mount Scott Creek and the abutments are to be located in close proximity to the creek. Based on conversation with the client, it is our understanding that excavations cannot be made below an elevation of 442.00 feet amsl without special permits, unless special measures are utilized. Therefore, the bottoms of the culvert footings are planned to be no deeper than about elevation 443 feet amsl.

Hand auger boring HA-6 was located immediately on the west side of the creek, with a surface elevation of about 444 feet. In hand auger boring HA-6 we observed soft alluvial soils to a depth of about 5 feet below the ground surface, or an elevation of 439 feet.

Given the close proximity of the culvert abutments to Mount Scott Creek and the limitations on construction activity next to the creek, special measures will be needed in order to transfer structural loads down to competent native soil and to protect against scour and erosion. We recommend that sheet piling be utilized to create a separation between the work area and the creek, and to protect against erosion and scour. Additionally, Ultrablocks or cast-in-place concrete be placed under the footings in order to transfer loads down to competent native soil. The sheet piling is intended to form a protective barrier between the construction area and the adjacent creek so that excavations can be made through the existing soft alluvial soils down to competent native soil without adversely impacting the creek.

The sheet piling walls should be installed along the lengths of the abutment footings within about 12 inches of the abutment footings. The sheet piling walls should also have return sections immediately to the south of the abutment footings. The return sections should extend at least 8 feet horizontally from the creek-side edge of the abutment footings. Sheet piling should consist of PZ27, which has 12-inch deep corrugations, or an equivalent approved by GeoPacific prior to construction. The sheet piling should be driven through the near-surface fill material and soft alluvial soils to a minimum bottom elevation of 337 feet amsl or to practical refusal in the residual soil, weathered rock, or boulders, whichever is shallower. Sketches of the recommended configuration are shown on Figures 3 and 4.

Given that the proposed footings are located adjacent to existing improvements, care should be taken during sheet pile driving operations to not cause excessive ground vibration. The risk of vibration damage to the existing improvements is considered to be low, provided that the piling contractor employs appropriate mitigating measures such as low impact energy hammers, shallow

pre-drilling, initial push installation methods, etc. The piling contractor should monitor the site during construction for excessive vibration.

After the sheet piling has been installed, then the excavation can be made for the concrete mass which is intended to transfer loads from the footing down to competent native soils. The excavation should remove the soft alluvial soils and extend down to competent native soils. The excavation should be at least 5 feet wide or the width of the footing, whichever is greater. The length of the excavation should be at least equal to the length of the footing. The excavation should extend down to an elevation 439 feet even if native soils are encountered above that elevation, unless bedrock is encountered. If bedrock is encountered, it may be acceptable to found the concrete mass on the bedrock, pending review in the field by GeoPacific.

We anticipate that the native soil layer will be sloped. If the contact is found to be sloping, as we anticipate, then the base of the excavation should be made in relatively level benches at least 2 feet wide.

Following removal of undocumented fill, topsoil, or soft alluvial soils, the geotechnical engineer or his designated representative should be contacted to observe all subgrade preparation activities prior to placement of concrete.

After the excavation is complete, Ultrablocks should be placed or a mass of concrete should be poured on the competent native soil, up to the bottom-of-footing elevation. If concrete is utilized, it should have a compressive strength of at least 2,000 psi. If Ultrablocks are utilized, the spaces between the Ultrablocks and the sheet piling, and between the Ultrablocks and the other sides of the excavation should be filled with crushed drain rock, CDF, concrete, or grout.

The anticipated allowable soil bearing pressure is 2,500 lbs/ft² for footings bearing on Ultrablocks or cast-in-place concrete, transferring load down to competent, re-compacted native soil or engineered fill.

Foundation design, construction, and setback requirements should conform to the applicable building code at the time of construction. For maximization of bearing strength and protection against frost heave, spread footings should be embedded at a minimum depth of 12 inches below exterior grade. Foundations should be designed by a licensed structural engineer. The recommended maximum allowable bearing pressure may be increased by 1/3 for short-term transient conditions such as wind and seismic loading.

The coefficient of friction between concrete mass and poured-in-place concrete may be taken as 0.50, which includes no factor of safety. The maximum anticipated total and differential footing movements (generally from soil expansion and/or settlement) are 1 inch and ½ inch over a span of 20 feet, respectively. We anticipate that the majority of the estimated settlement will occur during construction, as loads are applied. Excavations near structural footings should not extend within a 1H:1V plane projected downward from the bottom edge of footings.

Since the creek bank adjacent to the proposed footings consists of soft alluvial soils, we recommend that passive earth pressure be neglected between the footings and the creek and on the south sides of the footings. However, passive earth pressure may be assumed for the sides of the footings away from the creek and for the north sides of the footings.

Passive earth pressure for buried portions of structures may be calculated using an equivalent fluid weight of 320 pounds per cubic foot (pcf), assuming footings are cast against dense, native soils or engineered fill. Since we encountered soft alluvial soils in our explorations at the approximate location of the proposed abutment footing on the west side of the creek, soft soils may need to be removed on the upslope sides of the footings and replaced with engineered fill in order to provide passive resistance. The recommended coefficient of friction and passive earth pressure values do not include a safety factor. The upper 12 inches of soil should be neglected in passive pressure computations unless it is protected by pavement or slabs on grade.

DISCUSSION ON PROPOSED RETAINING WALLS ON APPROACHES EAST AND WEST OF THE ARCH CULVERT

As previously discussed, retaining walls are proposed to retain fill placed along the approaches to the arch culvert and along the top of the arch itself. The wall type has not yet been finalized. However, the wall is expected to consist of a modular gravity retaining wall, such as Ultrablock, or a mechanically stabilized earth (MSE) retaining wall, such as Lock+Load.

In our explorations drilled in the areas where retaining walls are proposed, we encountered several feet of undocumented fill material and/or soft alluvial soils. Therefore, several feet of excavation should be anticipated in order to reach competent native soils. The existing fill soils and alluvial soils are not competent to support the proposed retaining walls and should be completely removed from the influence zones of the proposed walls.

Due to property line constraints, it may not be practical to completely remove the existing fill/alluvial soils from the influence zones of the walls unless special measures are incorporated. For example, one alternative might be to embed portions of the wall several feet below existing grade so that the wall will bear on the competent native soils. As another alternative, it may be feasible to backfill the overexcavated areas and create adequate support for the retaining walls by wrapping lifts of granular backfill in layers of geogrid in order to prevent remaining soft soils to the south from negatively impacting the construction.

The native soils underlying the existing fill material and alluvial soils is generally stiff and will likely be suitable to support the proposed retaining walls. GeoPacific should be consulted to provide recommendations for the proposed retaining walls when a block type has been selected.

UNCERTAINTIES AND LIMITATIONS

We have prepared this report for the owner and their consultants for use in design of this project only. This report should be provided in its entirety to prospective contractors for bidding and estimating purposes; however, the conclusions and interpretations presented in this report should not be construed as a warranty of the subsurface conditions. Experience has shown that soil and groundwater conditions can vary significantly over small distances. Inconsistent conditions can occur between explorations that may not be detected by a geotechnical study. If, during future site operations, subsurface conditions are encountered which vary appreciably from those described herein, GeoPacific should be notified for review of the recommendations of this report, and revision of such if necessary.

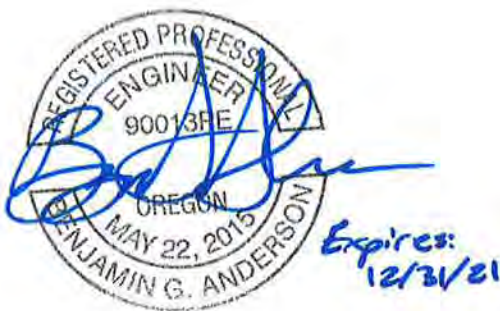
Sufficient geotechnical monitoring, testing and consultation should be provided during construction to confirm that the conditions encountered are consistent with those indicated by explorations. Recommendations for design changes will be provided should conditions revealed during construction differ from those anticipated, and to verify that the geotechnical aspects of construction comply with the contract plans and specifications.

Within the limitations of scope, schedule and budget, GeoPacific attempted to execute these services in accordance with generally accepted professional principles and practices in the fields of geotechnical engineering and engineering geology at the time the report was prepared. No warranty, express or implied, is made. The scope of our work did not include environmental assessments or evaluations regarding the presence or absence of wetlands or hazardous or toxic substances in the soil, surface water, or groundwater at this site.

We appreciate this opportunity to be of service.

Sincerely,

GEOPACIFIC ENGINEERING, INC.



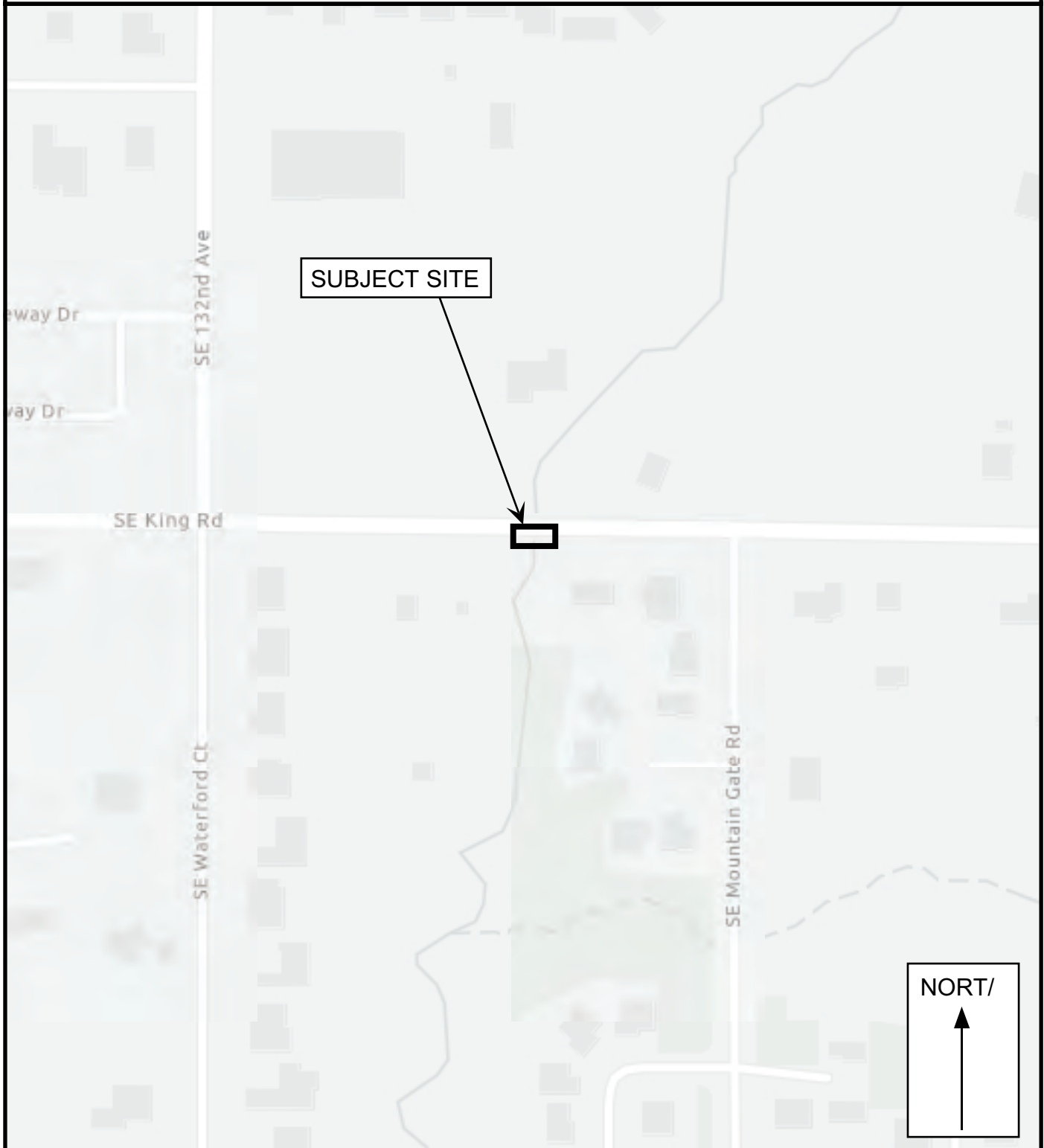
Benjamin G. Anderson, P.E.
Associate Engineer

Attachments: Figure 1 – Vicinity Map
Figure 2 – Site Plan and Exploration Locations – King Road
Figure 3 – Sketch of Culvert Profile
Figure 4 – Sketch of Culvert Top View
Exploration Logs (HA-4 through HA-7)



14835 SW 72nd Avenue
Portland, Oregon 97224
Tel: (503) 598-8445 Fax: (503) 941-9281

VICINITY MAP



Legend

Approximate Scale 1 in = 200 ft

Date: 09/18/20
Drawn by: BGA

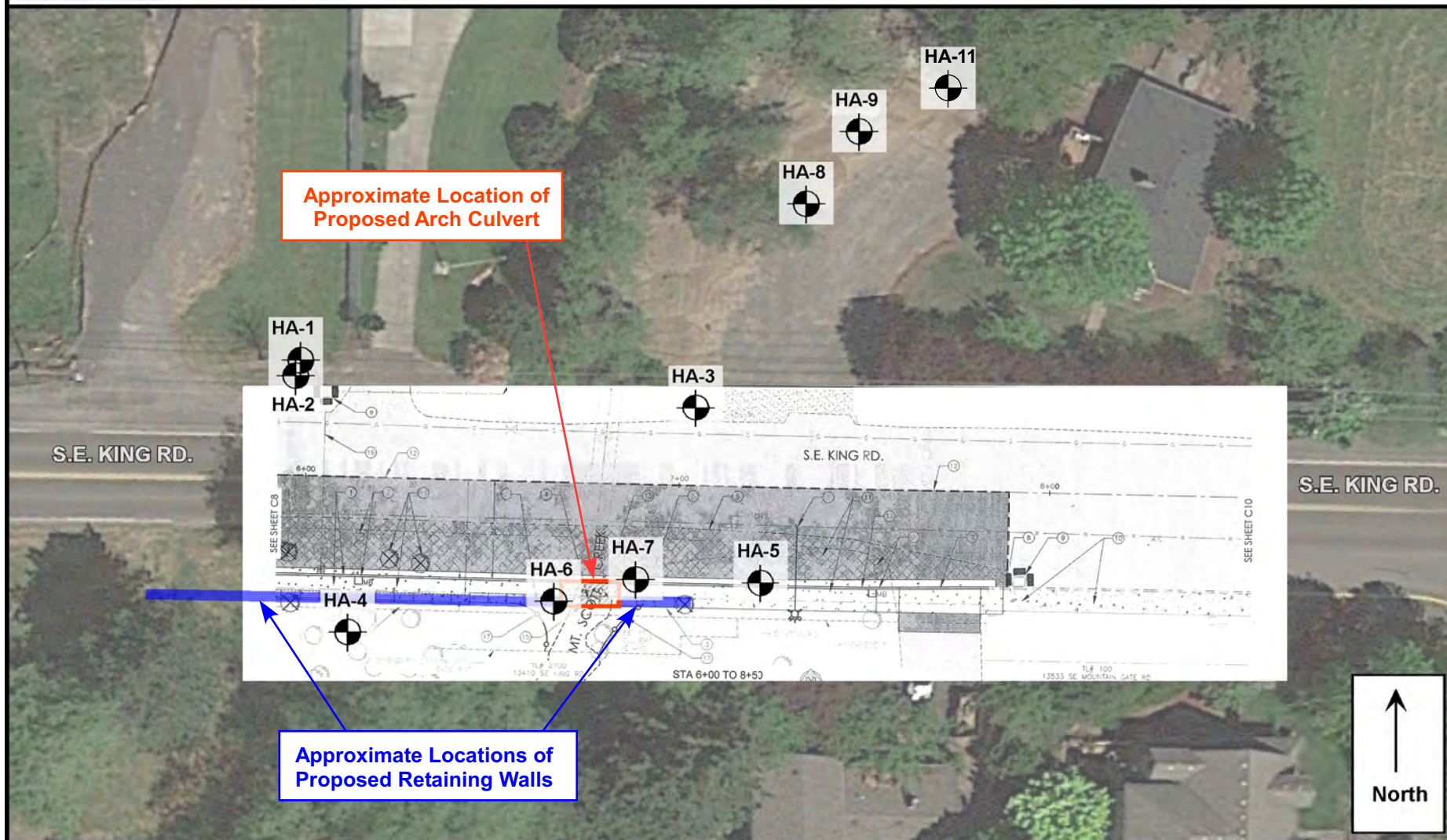
Base Map Obtained from Oregon HERE (https://gls.dogarc.com/oregon/go6f/5+7:6;+)

Project: City of Hawthorne Valley 2020 Pedestrian Improvements Phase II
Portland, Oregon


Project No. 19-2#33

FIGURE 1

SITE PLAN AND EXPLORATION LOCATIONS - KING ROAD



Legend

HA-1
 Hand Auger Boring Designation
and Approximate Location

0 40'
APPROXIMATE SCALE 1"=40'

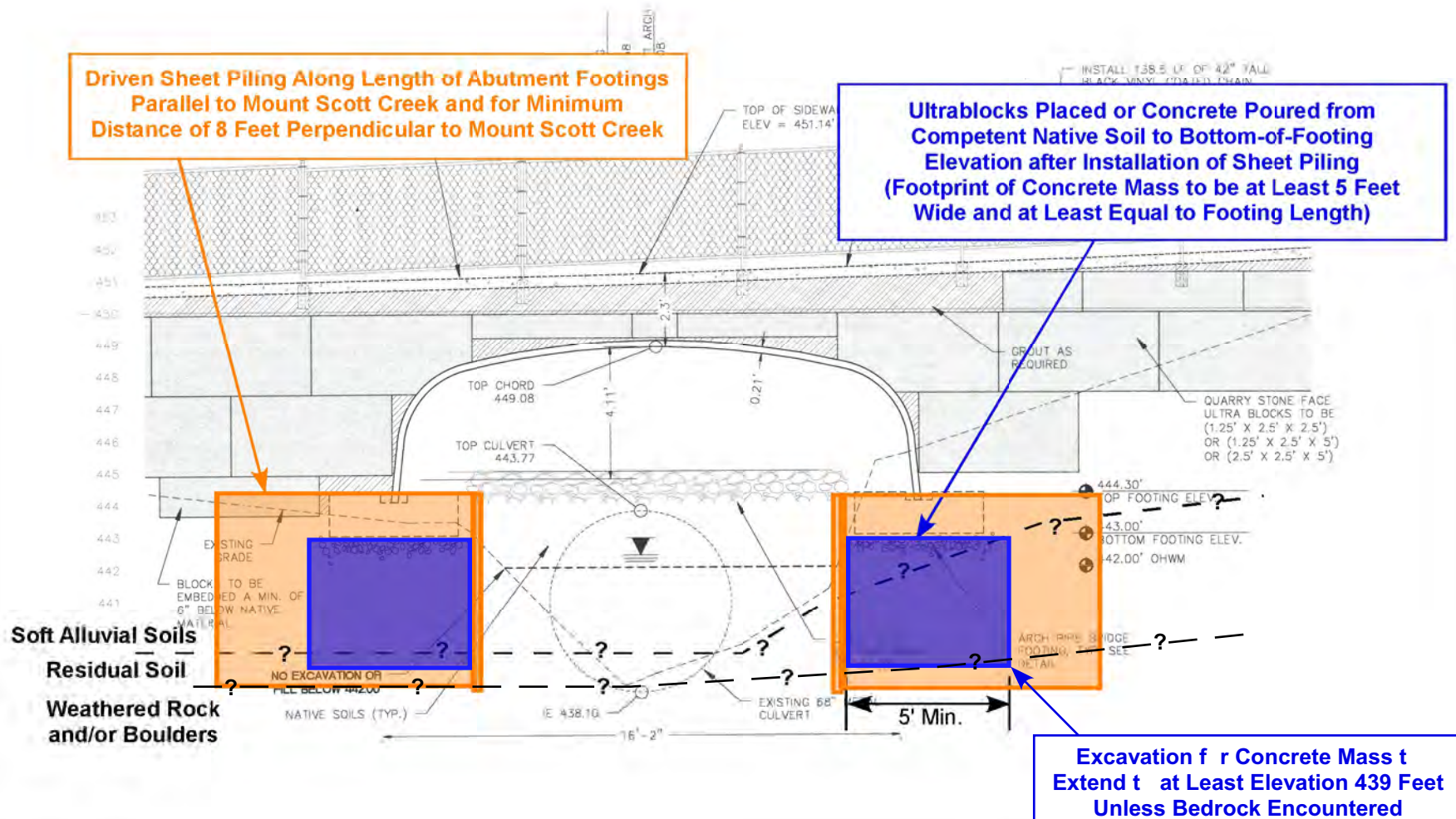
Date: 09/17/20
Drawn by: BGA

Project: City of Happy Valley 2020 Pedestrian Improvements Phase II
Happy Valley, Oregon

Project No. 20-5578

FIGURE 2

SKETCH OF CULVERT PROFILE



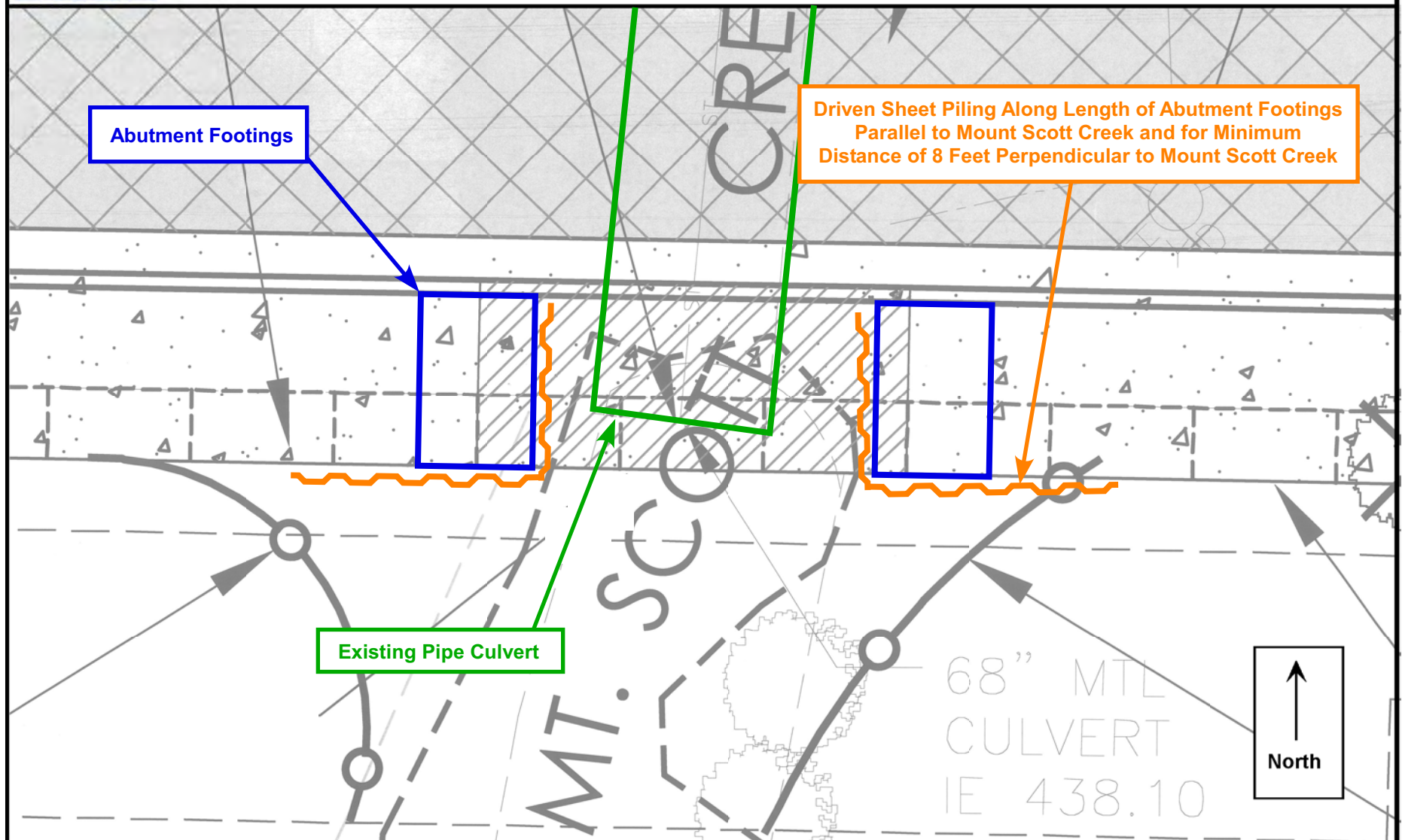
0 5'
APPROXIMATE SCALE 1"=5'

Date: 09/18/20
Drawn by: BGA



14835 SW 72n Avenue
Portland, Oregon 97224
Tel: (503) 598-8445 Fax: (503) 941-9281

SKETCH OF CULVERT TOP VIEW



0 5'
APPROXIMATE SCALE 1"=5'

Date: 09/18/20
Drawn by: BGA

Project: City of Happy Valley 2020 Pedestrian Improvements Phase II
Happy Valley, Oregon

Project No. 20-5578

FIGURE 4



14835 SW 72nd Ave
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Tel: (503) 598-8445 Fax: (503) 941-1177

HAND AUGER LOG

Project: City of Happy Valley 2020 Pedestrian
Improvements Phase II
Happy Valley, Oregon

Project No. 20-3345

Ring No(HA.1

Depth (ft)	Pocket Penetrator meter (tons/ft²)	Sample Type	In-Situ Dry Density (lb/ft³)	Moisture Content (%)	Water Content (%)	Material Description
0						Highly organic SILT (OL-1), dark brown, with fine to medium roots throughout, soft, dry (Topsoil)
1						Gravelly SILT (ML), brown, soft, dry (Fill Material)
2						SILT (1), brown and gray, with disturbed texture, swirled and lenticular bedding patterns, stiff, moist (Recent Alluvium)
3						CL-B, gray, with orange mottling, very moist (Residual Soil)
4						Boring terminated at 5 feet
5						Note: No seepage or groundwater encountered
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						

Notes:



Bag Sample



Bucket Sample



Shelby Tube Sample



Seepage



Water Level Zone



Water Level at Abandonment

Date Excavated: 8/28/20

Drawn By: BGA

Surface Elevation:



14835 SW 72nd Ave
Portland, Oregon 97224
Tel: (503) 598-8445 Fax: (503) 941-1177

HAND AUGER LOG

Project: City of Happy Valley 2020 Pedestrian
Improvements Phase II
Happy Valley, Oregon

Project No. 20-3345

Ring No(HA.1)

Depth (ft)	Pocket Penetrator meter (tons/ft²)	Sample Type	In-Situ Dry Density (lb/ft³)	Moisture Content (%)	Water Content (%)	Material Description
0						Highly organic SILT (OL-1), dark brown, with fine to medium roots throughout, soft, dry (Topsoil)
1						SILT (1), brown, disturbed texture, nail encountered at 2.5 feet, soft to medium stiff, dry (Fill Material)
2						Silty GRAVEL, gray, gravel is angular, damp (Fill Material)
3						Silty (1)-B, orangish gray, with black mineral deposits, moist (Residual Soil)
4						
6						
8						
10						
12						originally terminated at 12 feet
14						Note: No seepage or groundwater encountered
16						
18						
20						
22						
24						
26						
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90						
92						
94						
96						
98						
100						

Notes:



bag Sample



bucket Sample



Shelby Tube Sample



Seepage



Water Content Zone



Water Level at Abandonment

Date Excavated: 8/28/20

Prepared By: BGA

Surface Elevation:



14835 SW 72nd Ave
Portland, Oregon 97224
Tel: (503) 598-8445 Fax: (503) 941-1177

HAND AUGER LOG

Project: City of Happy Valley 2020 Pedestrian
Improvements Phase II
Happy Valley, Oregon

Project No. 20-3345

Ring No(**HA.1**

Depth (ft)	Pocket Penetrometer (tons/ft²)	Sample Type	In-Situ Dry Density (lb/ft³)	Moisture Content (%)	Water Content (%)	Material Description
1						SILT (s), dark gray and orange, with fine to medium roots throughout, disturbed texture, soft, moist (Recent Alluvium)
2						
3						SILT (s), blue gray, with red fragments of weathered rock, very stiff, wet (Residual Soil)
4						Logging terminated at 6.5 feet due to practical refusal on boulder or weathered rock
5						Note: Groundwater seepage encountered at 4 feet
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						

Notes:



bag Sample



bucket Sample



Shelby Tube Sample



Seepage



Water Content Zone



Water Level at Abandonment

Date Excavated: 8/25/20

Designed By: BGA

Surface Elevation:



14835 SW 72nd Avenue
Portland, Oregon 97224
Tel: (503) 598-8445 Fax: (503) 941-1177

HAND AUGER LOG

Project: City of Happy Valley 2020 Pedestrian
Improvements Phase II
Happy Valley, Oregon

Project No. 20-3345

Ring No(HA.

Depth (ft)	Pocket Penetration meter (tons/ft²)	Sample Type	In-Situ Dry Density (lb/ft³)	Moisture Content (%)	Water Bearing Zone	Material Description
0						Highly organic SILT (OL-G), dark brown, with fine to medium roots throughout, soft, dry (Topsoil)
1						Gravelly SILT (ML), brown, disturbed texture, soft, moist (Fill Material)
2						Terminated at 3 feet due to practical refusal on dense gravel fill material
3						Note: No seepage or groundwater encountered
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						

Notes:



Bag Sample



Bucket Sample



Shelby Tube Sample



Seepage



Water Bearing Zone



Water Level at Abandonment

Date Excavated: 8/25/20

Designed By: BGA

Surface Elevation:

Exhibit B – Sunrise Water Authority Specifications

WATER LINE/SERVICE SPECIFICATIONS & INFORMATION

FOR WATER SYSTEM CONSTRUCTION IN SUNRISE WATER AUTHORITY

1. Water mains shall be ductile iron pipe conforming to AWWA C151. Pipe is to have cement mortar lining and bituminous seal coat conforming to AWWA C104. Joints are to be Tyton joint. (6-inch to 8- inch pipe is to be Class 52: 12-inch and up shall be Class 52, unless specified by the Authority.) Pipe Fittings are to be cast iron, or ductile iron, conforming to AWWA C110 or C153. Pipe is to be laid such that it is supported along its full length, including digging of “bell holes”.
2. Water main is to have a minimum cover of 42-inches.
3. An approved mechanical restraint system is to be used at all branches and changes in direction.
4. Gate valves (6-inch through 12-inch) shall be resilient-seated type conforming to AWWA C509. Butterfly valves 18-inch and larger shall be Class 150 short body type in conformance with AWWA C504. Where water system static pressures exceed 100 psi, butterfly valves shall be Class 250B, short body type in conformance with AWWA C504. Valve boxes shall be Vancouver 910/18-inches long with 6-inch P.V.C. 3034 as bottom section. Valve boxes that are located outside areas to be paved shall have a 2' x 2' x 2' thick collar of hot asphalt placed around them. Where the top of the valve operating nut is 48-inches or more below finish grade, operating extensions shall be provided to bring the operating nut to a point 18-inches below finish grade. The extension stem shall be constructed of steel.
5. Fire hydrants shall be Mueller Centurion, M&H 929 Reliant, Clow F-2500 or Kennedy Guardian with 6-inch MJ inlet and 5-1/4 inch valve opening. Fire hydrants are to have a 4-1/2 inch and two 2-1/2 inch outlets. Pumper outlet to face the direction of access.
6. Tapping sleeves shall be either epoxy-coated steel with stainless steel bolts or stainless steel full circle tapping sleeve.
7. Granular material used for pipe base, pipe zone and trench backfill shall be $\frac{3}{4}$ " – 0" crushed rock. Pipe base shall be a minimum of 4-inches deep at the pipe barrel, and not less than 3-inches deep at the bell. Granular backfill is to be compacted to 95% maximum density per AASHTO T99 test method and native

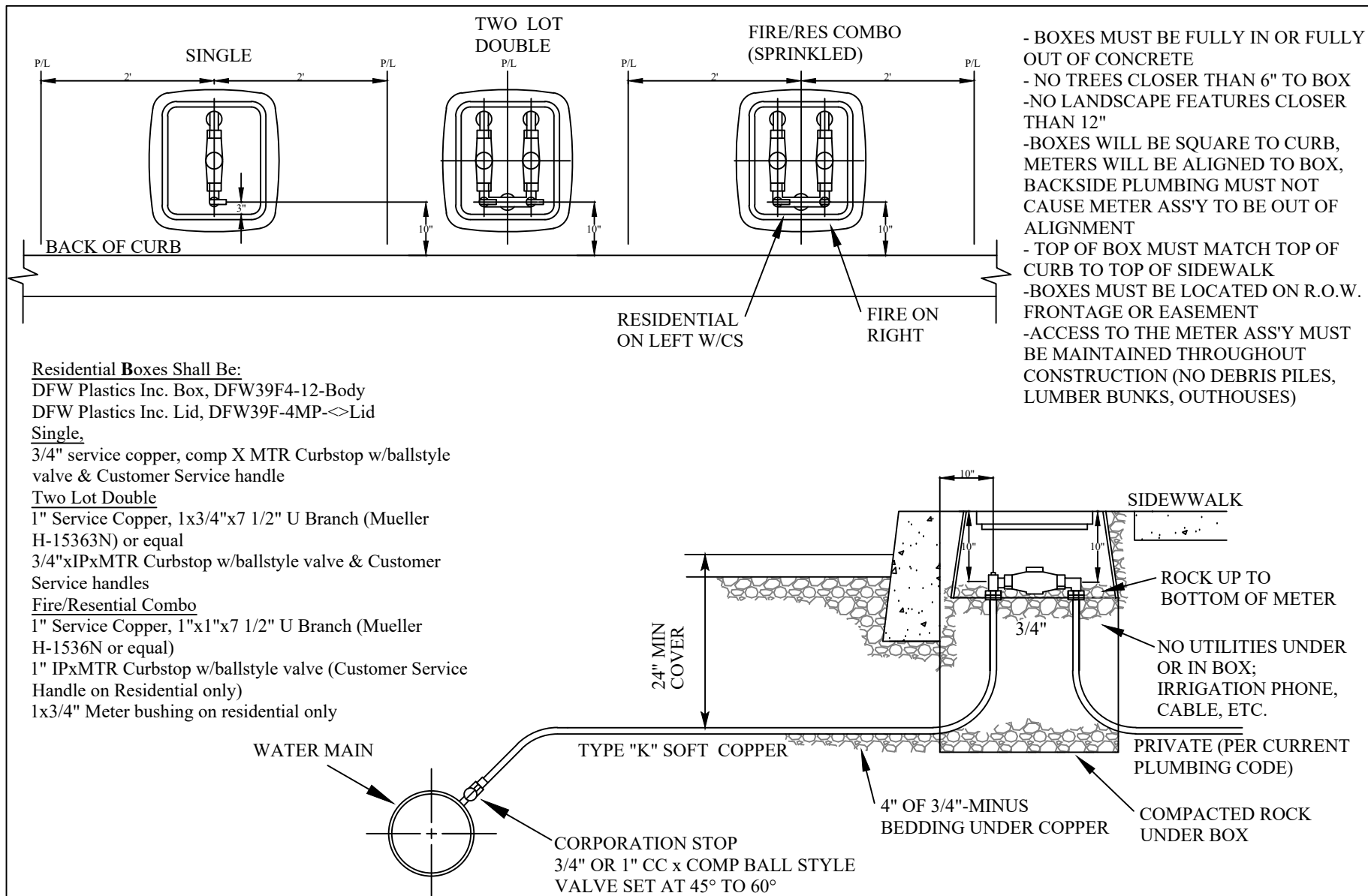
material shall be compacted to 85% of in-place density of surrounding soil. Backfill within right-of-way shall be in accordance with APWA Class B backfill.

8. Service laterals 1-inch or smaller shall be Type K copper, soft. Lateral sizes shall be 1-inch for lines that will serve two lots and ¾-inch for lines serving one lot. Corporation stops, angle curb stops, and service tees shall be:

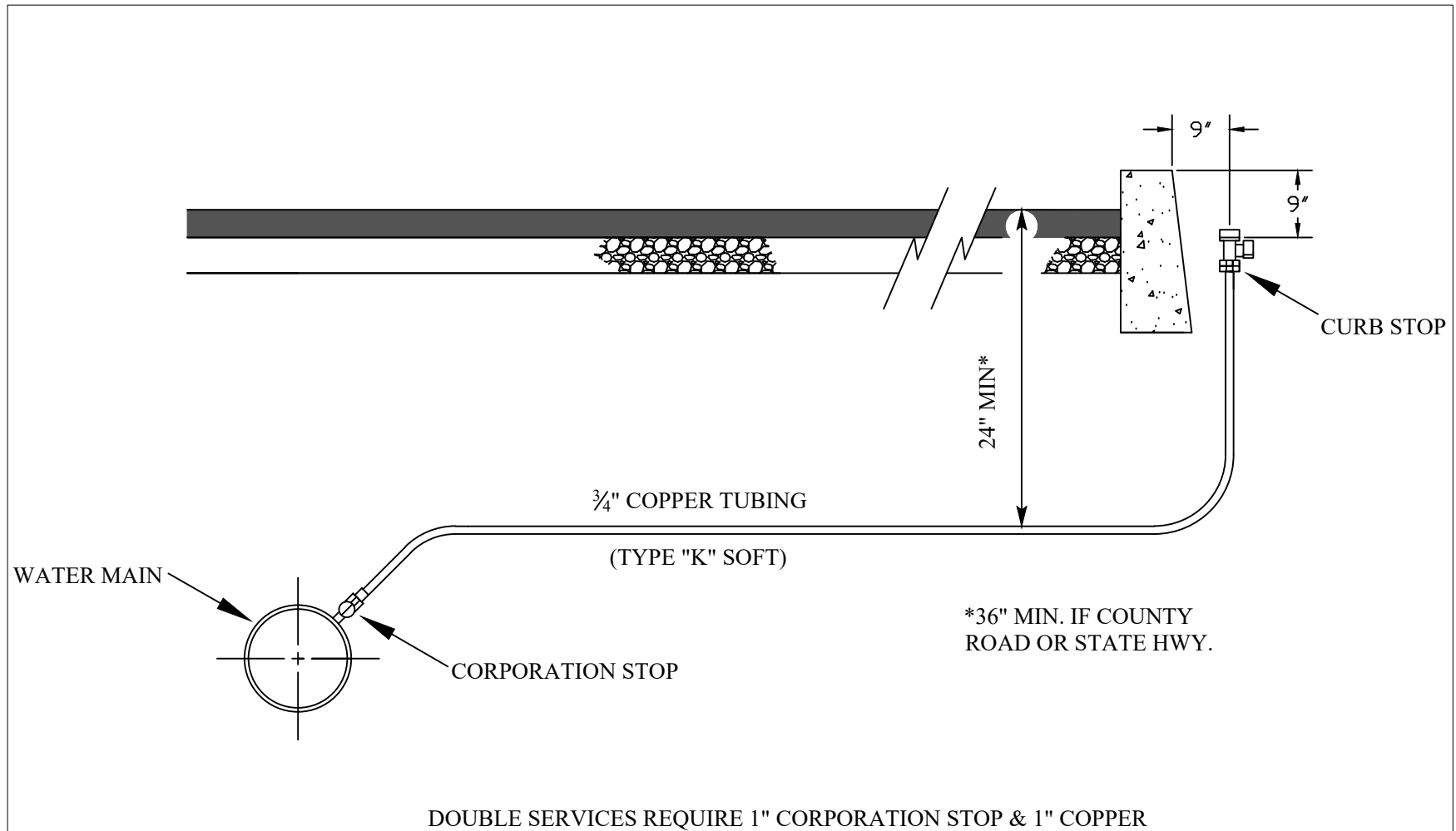
	Corporation Stops	Angle Curb Stops	Service Tees
Mueller (Ball Style)	B-25008	B-24258	H-15381
-OR-			
Ford (Ball Style)	FB-10003Q	BA-43-332WQ	T444-333Q

Split 1-inch lines into two ¾-inch lines behind curb line. Place curb stops 9-inches back of curb line and 9-inches below curb line with 48-inches separation on doubles. Place Brook's product meter box item #WB132312BM with polymer cover #WC1323SCM and reader lid #WL0611LIDM over the curb stop as per water meter box detail.

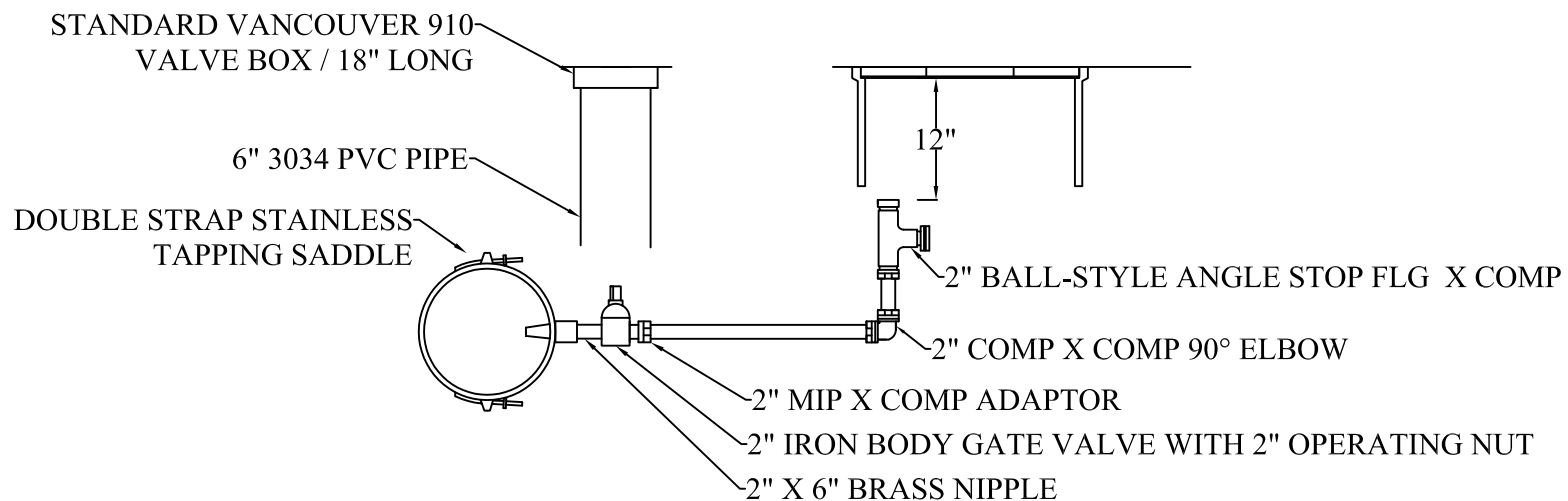
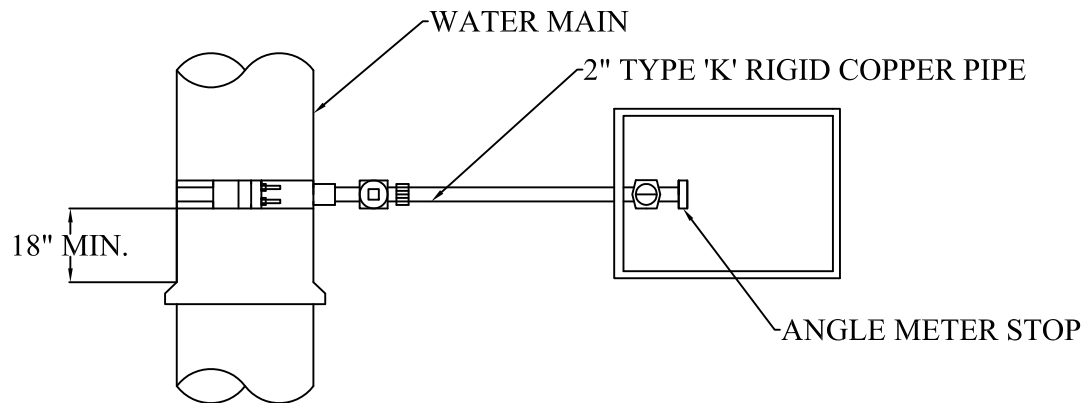
9. Inspection of the water improvements will be made by Sunrise Water Authority personnel or others designated by the Authority. The pressure test is to be made after all services are installed, curbs are in, and road base rock is placed. Test pressure shall be 1.5 times static line pressure (minimum 150psi) at the lowest point in the system being tested; 30 minutes duration; no pressure loss.
10. All materials, installations, tests, and chlorination are to be in accordance with the standards and codes of the Sunrise Water Authority and the Oregon Administrative Rules, Chapter 333, Division 061.
11. The contractor shall provide Sunrise Water Authority with certificate of insurance and will have to be qualified by the Water Authority, if not already so, to do work on the water system. The developer shall provide Sunrise Water Authority with a 12-month maintenance bond, an irrevocable letter of credit, or an assignment of funds, in the amount of 25% of the cost of the water system improvements.
12. Where sanitary lines cross water lines, the systems need to be constructed such that the crossing will occur at the center of a pipe segment for both lines.
13. PVC re-use water lines will be installed using C-900 DR18 purple pipe with ductile iron fittings. A tracer wire, 12 gauge Copperhead or equivalent, must be installed with PVC re-use water lines. Re-use identification tape must be installed one foot above re-use water lines.



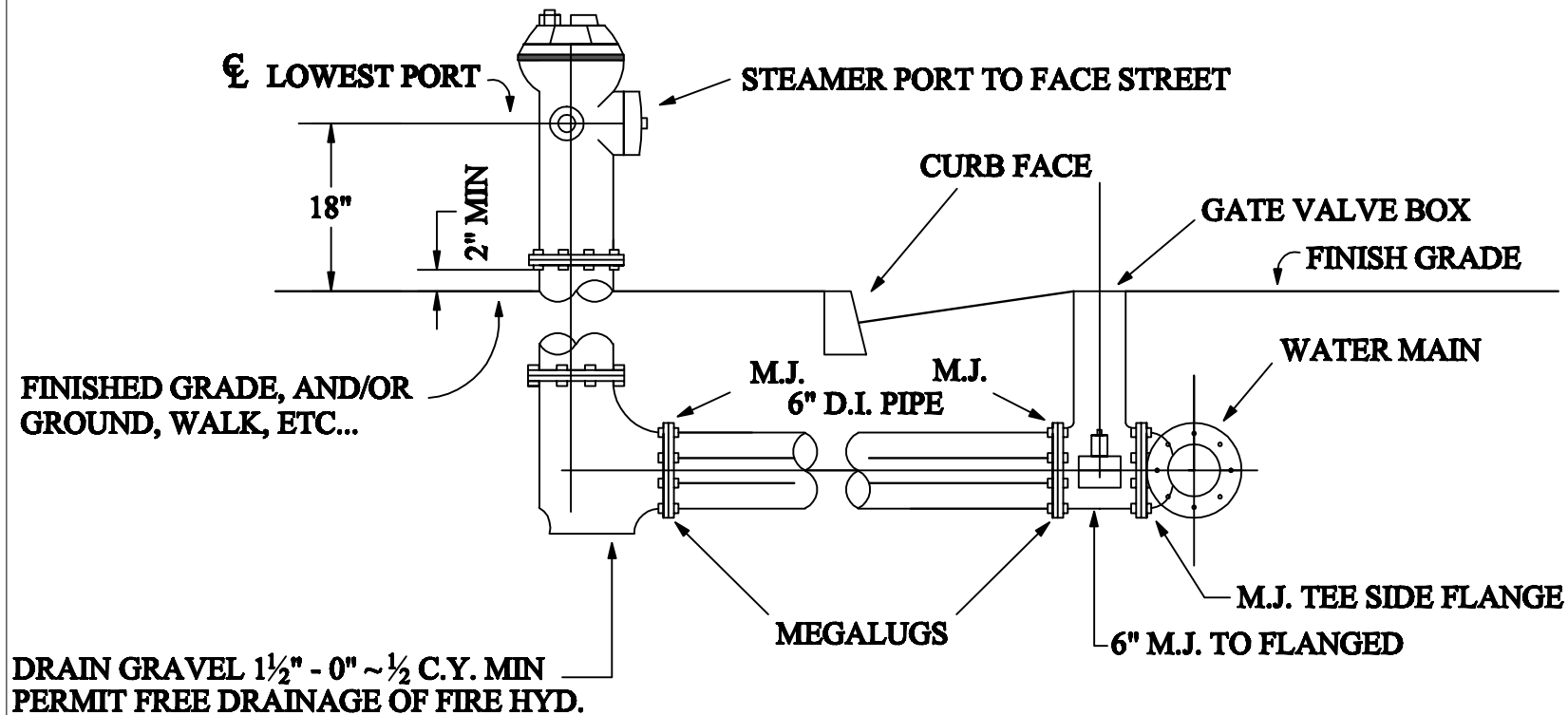
DRAWN			SUNRISE WATER AUTHORITY	SCALE	N.T.S.
DIV.				DATE	
REV.	DATE	APPR.		APPR.	
				DWG. NO.	
			TYPICAL 3/4" & 1" SERVICE		



DRAWN			SUNRISE WATER AUTHORITY	SCALE	N.T.S.
DIV.				DATE	
REV.	DATE	APPR.		APPR.	
				DWG. NO.	
			TYPICAL 3/4" & 1" SERVICE		

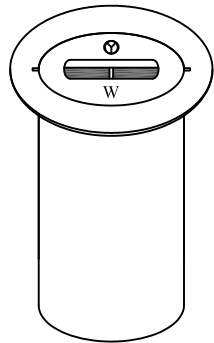
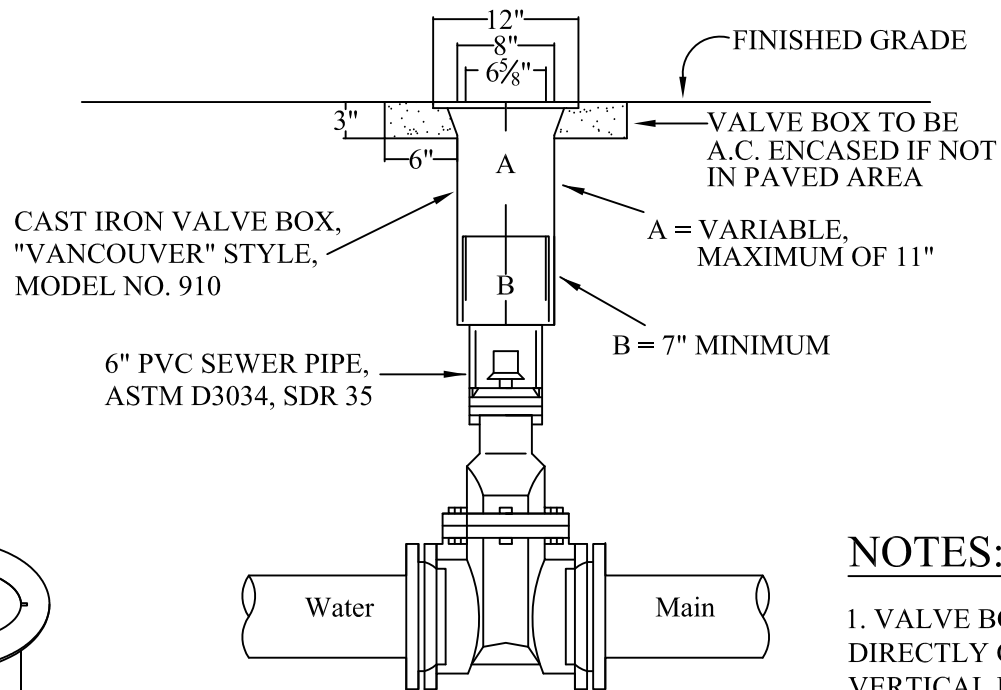


DRAWN			SUNRISE WATER AUTHORITY	SCALE	N.T.S.
DIV.				DATE	
REV.	DATE	APPR.		APPR.	
				DWG. NO.	
			TYPICAL 1 1/2" & 2" SERVICE		



NOTE:
 FIRE HYDRANT SHALL BE INSPECTED BY
 WATER AUTHORITY PRIOR TO BACKFILLING

DRAWN			SUNRISE WATER AUTHORITY	SCALE	N.T.S.
DIV.				DATE	
REV.	DATE	APPR.		APPR.	
				DWG. NO.	
			FIRE HYDRANT DETAIL		

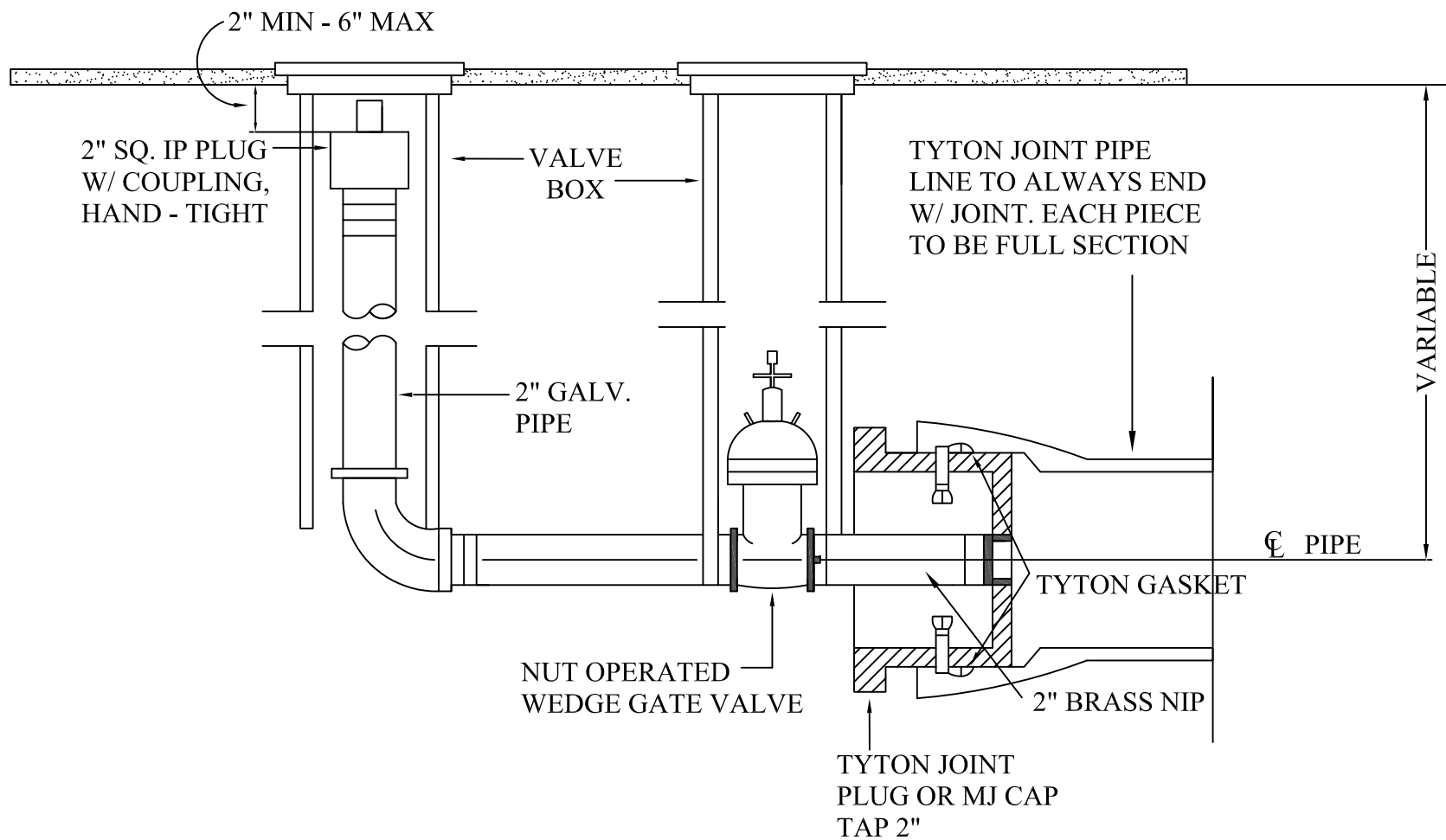


"VANCOUVER"
18" TALL VALVE BOX

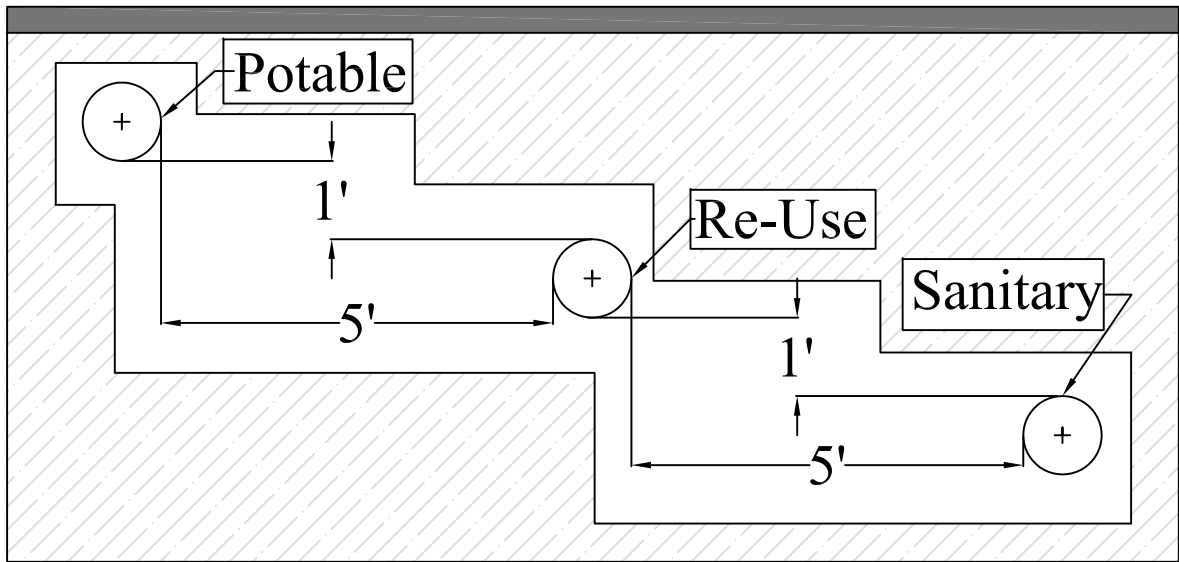
NOTES:

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

DRAWN			SUNRISE WATER AUTHORITY	SCALE	N.T.S.
DIV.				DATE	
REV.	DATE	APPR.		APPR.	
				DWG. NO.	
			STANDARD VALVE BOX DETAIL		



DRAWN			<div>SUNRISE WATER AUTHORITY</div> <div>BLOWOFF ASSEMBLY DETAIL</div>	SCALE	N.T.S.
DIV.				DATE	
REV.	DATE	APPR.		APPR.	
				DWG. NO.	

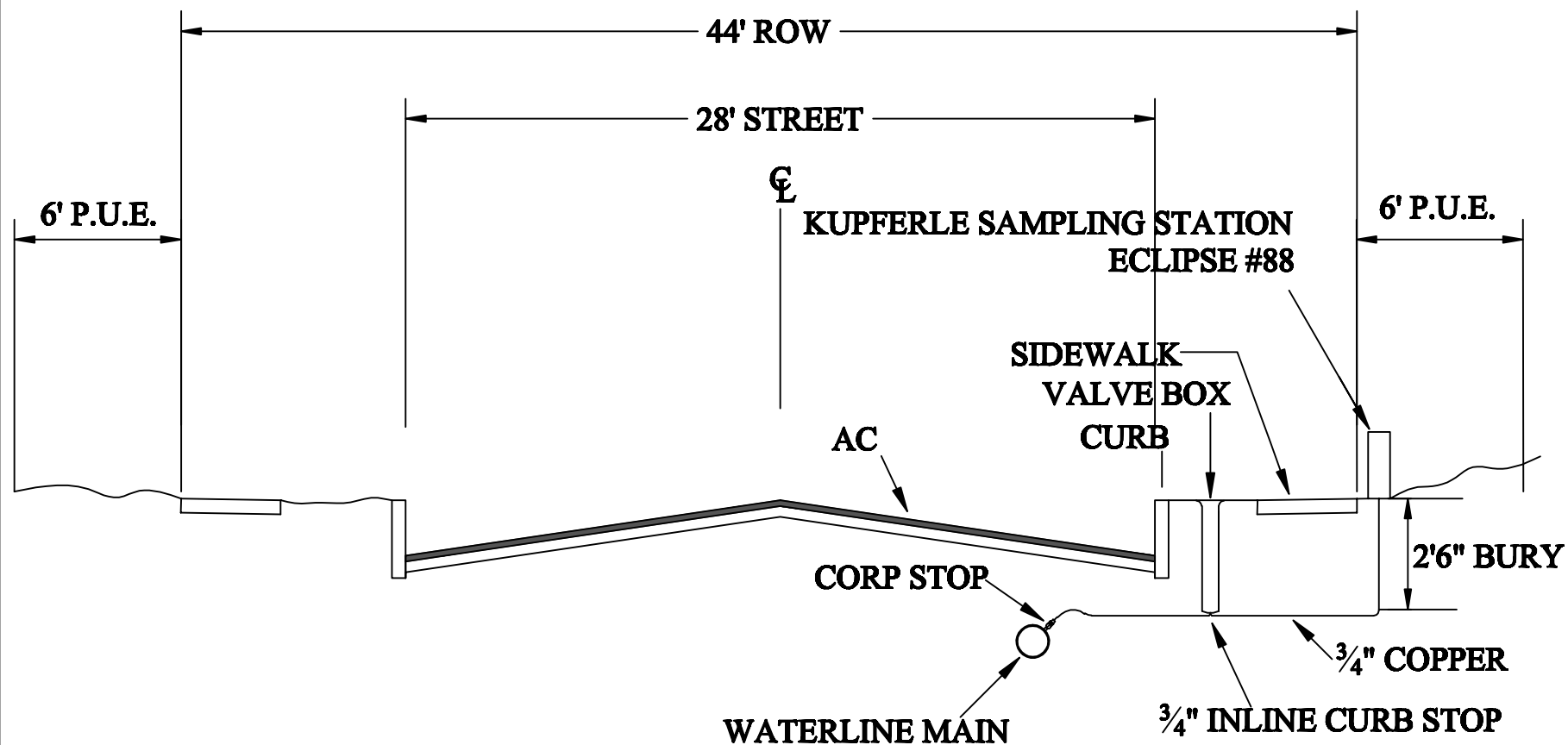


DRAWN		
DIV.		
REV.	DATE	APPR.

SUNRISE WATER AUTHORITY

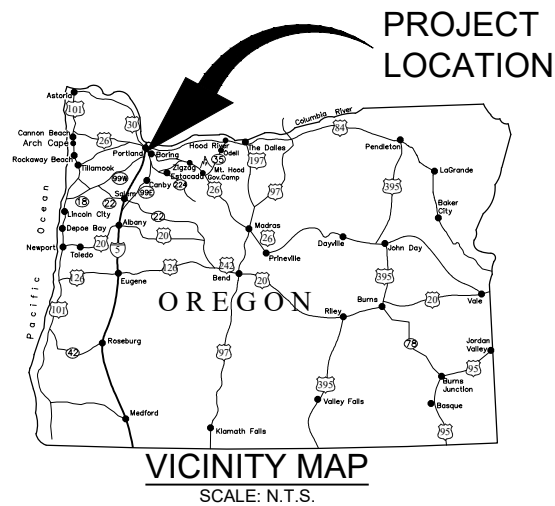
MINIMUM RE-USE LINE SPACING DETAIL

SCALE	N.T.S
DATE	
APPR.	
DWG. NO.	

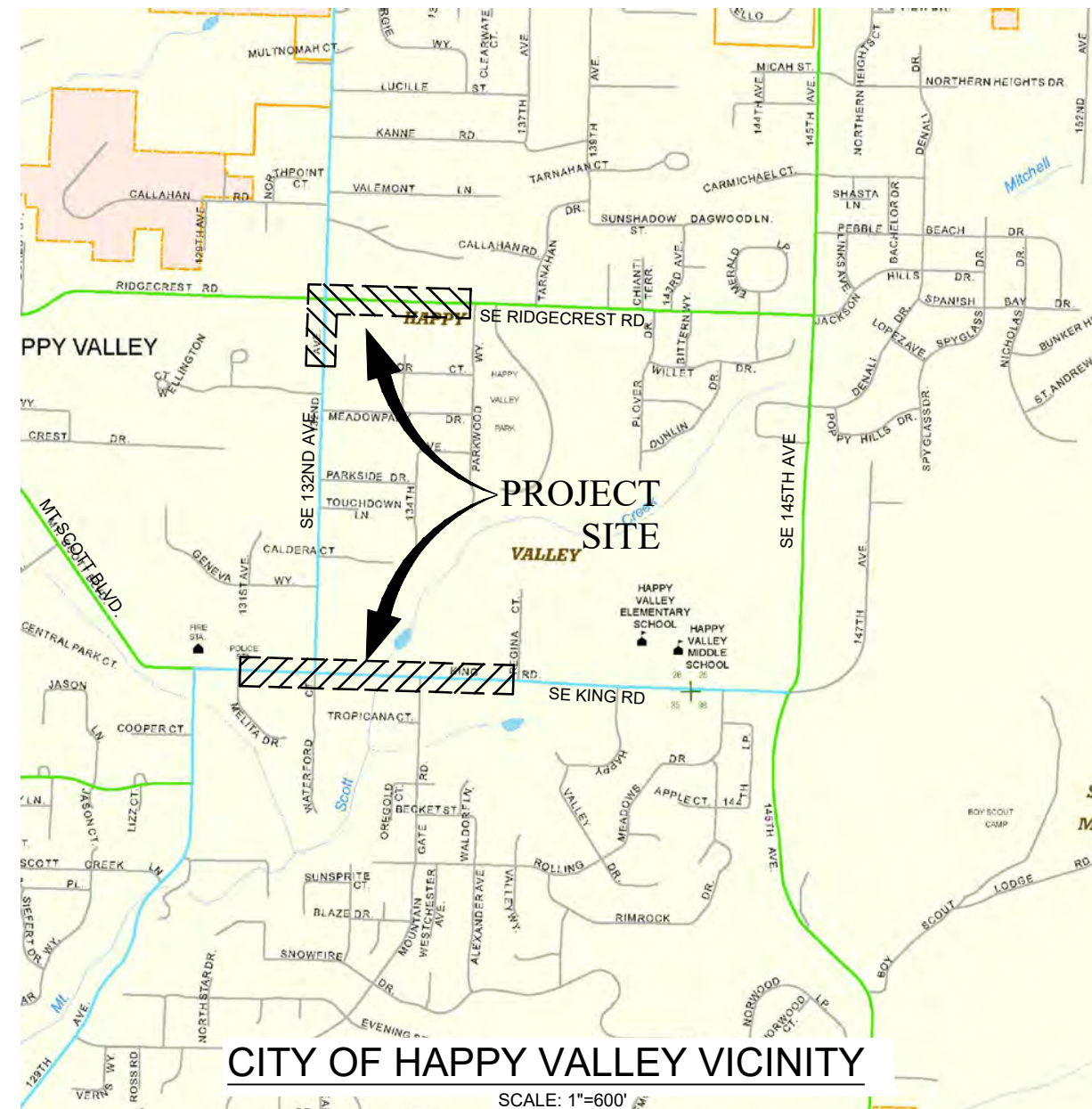


DRAWN			SUNRISE WATER AUTHORITY	SCALE	N.T.S.
DIV.				DATE	
REV.	DATE	APPR.		APPR.	
				DWG. NO.	
			SAMPLING STATION DETAIL		

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CITY OF HAPPY VALLEY
2020 SUPERBLOCK
PEDESTRIAN IMPROVEMENTS PROJECT - PHASE II
KING ROAD, 132ND AVENUE AND RIDGECREST ROAD
CIP-05-20
CLACKAMAS COUNTY, OREGON
SEPTEMBER 2020



LEGEND

- PROPERTY LINE (E)
- MONUMENTS FOUND TO BE PROTECTED
- SA — EXISTING SEWER
- ST — EXISTING STORM
- W — EXISTING WATER
- T — EXISTING TELEPHONE
- P — EXISTING POWER
- X — EXISTING FENCE TO BE PROTECTED
- G — EXISTING GAS
- FO — EXISTING UNDERGROUND FIBER OPTIC
- [Pattern] EXISTING CONCRETE SIDEWALK/DRIVEWAY
- [Pattern] EXISTING GRAVEL SURFACE
- [Pattern] EXISTING ASPHALT CONCRETE
- [Pattern] AREA OF DEMOLITION & NEW PAVEMENT
- [Symbol] EXISTING FIRE HYDRANT
- CB □ EXISTING CATCH BASIN
- ⊙ EXISTING STORM MANHOLE
- CO ○ EXISTING CLEANOUT
- ⊙ EXISTING SANITARY MANHOLE
- ☆ EXISTING LIGHT POLE
- ⊙ EXISTING POWER POLE
- ⊙ EXISTING WATER VALVE
- WM □ EXISTING WATER METER
- EXISTING TREE
- ⊗ EXISTING TREE TO BE REMOVED
- MB □ EXISTING MAILBOX
- ⊙ NEW CATCH BASIN
- ⊙ NEW STORM MANHOLE
- ST — NEW STORM LINE
- [Pattern] NEW CONCRETE SIDEWALK
- [Pattern] NEW AC PAVEMENT
- LIMITS OF GRIND AND INLAY
- D/W DRIVEWAY
- C/L CENTERLINE

HAPPY VALLEY CITY GOVERNMENT

MAYOR TOM ELLIS

CITY COUNCIL BRETT SHERMAN (PRESIDENT)
MARKLEY DRAKE (COUNCILOR)
DAVID GOLOBAY (COUNCILOR)
DAVID EMAMI (COUNCILOR)

ECONOMIC & COMMUNITY DEVELOPMENT MICHAEL WALTER, AICP
DIRECTOR

ENGINEERING DIVISION . . . CAROL EARLE,
P.E., CITY ENGINEER
SHERI MARKWARDT,
P.E., PROJECT MANAGER

PUBLIC WORKS. CHRIS RANDALL
DIRECTOR

CONTRACTOR TO PROTECT EXISTING POWER,
TELEPHONE/TELECOMMUNICATION LINES &
COORDINATE RELOCATION OF ANY LINES
THAT ARE IN CONFLICT WITH THE
CONSTRUCTION WITH APPROPRIATE AGENCY

CALL BEFORE YOU DIG

ATTENTION: OREGON LAW REQUIRES YOU TO FOLLOW RULES ADOPTED BY THE OREGON UTILITY NOTIFICATION CENTER. THOSE RULES ARE SET FORTH IN OAR 952-001-0010 THROUGH OAR 952-001-0090. YOU MAY OBTAIN COPIES OF THESE RULES BY CALLING THE CENTER.
(NOTE: THE TELEPHONE NUMBER FOR THE OREGON UTILITY NOTIFICATION CENTER IS (503) 232-1987 OR 811 OR (877) 668-4001

ALL UTILITY CROSSINGS ARE APPROXIMATE,
CONTRACTOR TO POTHOLE AND FIELD DEPTH
VERIFY PRIOR TO CONSTRUCTION AND CONSULT
WITH THE ENGINEER REGARDING ANY CONFLICTS

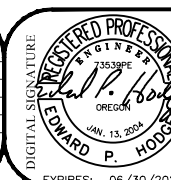
GENERAL TOPOGRAPHIC SURVEY HAS BEEN PROVIDED BY ZTEC ENGINEERS, INC.



BAR IS ONE INCH ON
ORIGINAL DRAWING.
ADJUST SCALE
AS SHOWN
ACCORDINGLY.

REV.	DESCRIPTION	REVISED BY	DATE

REVISIONS



CURRAN-McLEOD, INC.
CONSULTING ENGINEERS
6655 S.W. HAMPTON ST., SUITE 210
PORTLAND, OREGON 97223
PHONE (503) 684-3478

CITY OF HAPPY VALLEY
2020 SUPERBLOCK PEDESTRIAN IMPROVEMENTS - PHASE II
KING ROAD, 132ND AVENUE AND RIDGECREST ROAD
COVER SHEET

CLACKAMAS COUNTY, OREGON

DATE	SEPT 2020
C/N	1729
D/B	EPH
D/S	JHH/JVB
CAD	1729-G1-G5

G1
OF
5

J:\Happy Valley\1729 HV Superblock Sidewalk Connection\PHASE 2\DWG\1729-G1-G5.dwg, 9/25/2020 10:43:16 AM, DWG To PDF.pc3

SHEET INDEX:

GENERAL SHEETS:

- G1 COVER SHEET
- G2 SHEET INDEX
- G3 PROJECT OVERVIEW MAP
- G4 EROSION CONTROL NOTES
- G5 EROSION CONTROL NOTES

PHASE II:
SE KING RD

- C1 SE KING RD
EXISTING CONDITIONS PLAN
STA: -3+35 TO STA: 5+50

C2 SE KING RD
EXISTING CONDITIONS PLAN
STA: 5+50 TO STA: 18+00

C3 STREET CROSS SECTIONS
SE KING RD
- C4 SE KING RD PLAN & PROFILE:
STA: -3+35 TO STA: -1+00

C5 SE KING RD PLAN & PROFILE:
STA: -1+00 TO STA: 1+50

C6 SE KING RD PLAN & PROFILE:
STA: 1+50 TO STA: 3+50
- C7 SE KING RD PLAN & PROFILE:
STA: 3+50 TO STA: 6+00

C8 SE KING RD PLAN & PROFILE:
STA: 6+00 TO STA: 8+50

C9 SE KING RD PLAN & PROFILE:
STA: 8+50 TO STA: 11+00
- C10 SE KING RD PLAN & PROFILE:
STA: 11+00 TO STA: 13+50

C11 SE KING RD PLAN & PROFILE:
STA: 13+50 TO STA: 16+00

C12 SE KING RD PLAN & PROFILE:
STA: 16+00 TO STA: 18+00
- C13 MT SCOTT CREEK CROSSING
RETAINING WALL PROFILE

C14 MT SCOTT CREEK CROSSING
BOX CULVERT DETAIL

C15 SE KING RD STRIPING & SIGNAGE PLAN
STA: -3+35 TO 5+50

C16 SE KING RD STRIPING & SIGNAGE PLAN
STA: 5+50 TO 18+00

PHASE II:
SE 132ND AVE AND SE RIDGECREST RD

- C17 SE 132ND AVE & SE RIDGECREST RD
EXISTING CONDITIONS PLAN
STA: 22+49 TO STA: 32+00

C18 SE RIDGECREST RD
EXISTING CONDITIONS PLAN
STA: 32+00 TO STA: 35+19

C19 STREET CROSS SECTIONS
SE 132ND AVE & SE RIDGECREST RD
- C20 SE 132ND AVE PLAN & PROFILE
STA: 22+49 TO STA: 25+00

C21 SE 132ND AVE PLAN & PROFILE
STA: 25+00 TO STA: 26+22

C22 SE RIDGECREST RD PLAN & PROFILE
STA: 26+22 TO STA: 28+50

C23 SE RIDGECREST RD PLAN & PROFILE
STA: 28+50 TO STA: 30+40
- C24 SE RIDGECREST RD PLAN & PROFILE
STA: 30+40 TO STA: 32+60

C25 SE RIDGECREST RD PLAN & PROFILE
STA: 32+60 TO STA: 35+19

C26 SE 132ND AVE GRADING PLAN
STA: 22+49 TO STA: 26+22

C27 SE RIDGECREST RD GRADING PLAN
STA: 26+22 TO STA: 31+00
- C28 SE RIDGECREST RD GRADING PLAN
STA: 31+00 TO STA: 35+19

C29 CROSS SECTION DETAILS

C30 CROSS SECTION DETAILS

C31 CROSS SECTION DETAILS

C32 CROSS SECTION DETAILS
- C33 CROSS SECTION DETAILS

C34 CROSS SECTION DETAILS

C35 SE 132ND AVE & SE RIDGECREST RD
STRIPING & SIGNAGE PLAN
STA: 22+49 TO 35+19

C36 STORMWATER PLANTER PLAN

C37 STORMWATER PLANTER #1 & #2 DATA

STANDARD DETAILS:

- C38 CONSTRUCTION DETAILS

C39 CONSTRUCTION DETAILS

C40 CONSTRUCTION DETAILS

C41 CONSTRUCTION DETAILS
- C42 CONSTRUCTION DETAILS

C43 CONSTRUCTION DETAILS

C44 CONSTRUCTION DETAILS

C45 CONSTRUCTION DETAILS
- C46 CONSTRUCTION DETAILS

C47 CONSTRUCTION DETAILS

C48 CONSTRUCTION DETAILS

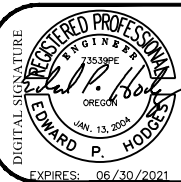
C49 CONSTRUCTION DETAILS



BAR IS ONE INCH ON
ORIGINAL DRAWING.
ADJUST SCALE
AS SHOWN
ACCORDINGLY.

REV.	DESCRIPTION	REVISED BY	DATE

REVISIONS



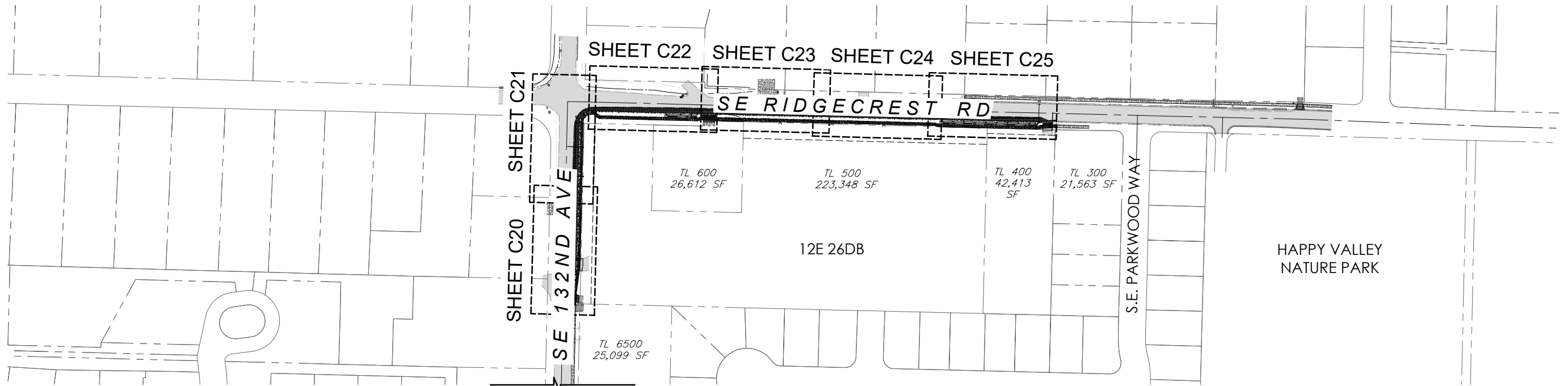
CURRAN—McLEOD, INC.
CONSULTING ENGINEERS

6655 S.W. HAMPTON ST., SUITE 210
PORTLAND, OREGON 97223
PHONE (503) 684-3478

CITY OF HAPPY VALLEY
2020 SUPERBLOCK PEDESTRIAN IMPROVEMENTS - PHASE II
KING ROAD, 132ND AVENUE AND RIDGECREST ROAD
SHEET INDEX

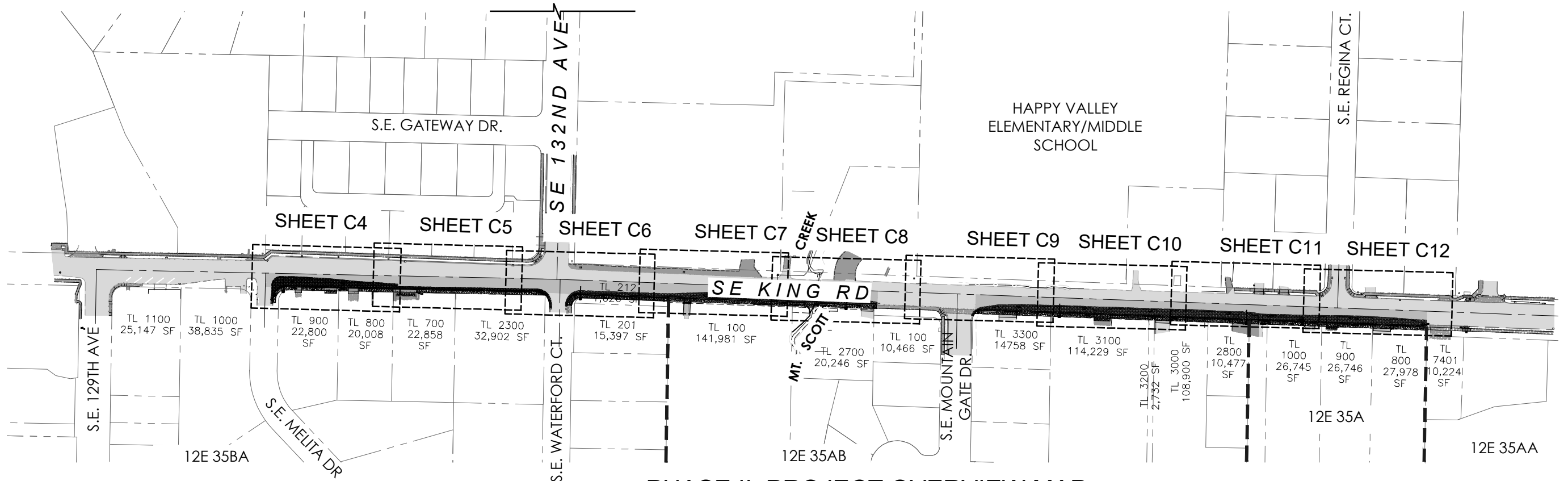
CLACKAMAS COUNTY, OREGON

DATE	SEPT 2020
P.N.	1729
D/B	EPH
D/S	JVB/JHH
CAD#	1729-G1-G5



PHASE II: PROJECT OVERVIEW MAP

SCALE: 1"=100'



PHASE II: PROJECT OVERVIEW MAP

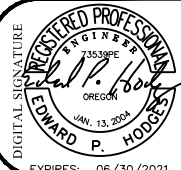
SCALE: 1"=100'



BAR IS ONE INCH ON ORIGINAL DRAWING.
ADJUST SCALE AS SHOWN ACCORDINGLY.

REV.	DESCRIPTION	REVISED BY	DATE

REVISIONS



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CONSULTING ENGINEERS

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CITY OF HAPPY VALLEY
2020 SUPERBLOCK PEDESTRIAN IMPROVEMENTS - PHASE II
KING ROAD, 132ND AVENUE AND RIDGECREST ROAD
PROJECT OVERVIEW
CLACKAMAS COUNTY, OREGON

DATE	SEPT 2020
P.N.	1729
D/B	EPH
D/S	JVB/JHH
CAD#	1729-G1-G5

G3
OF
5

PROJECT LOCATION/INFORMATION:

SE KING RD
SE 132ND AVE & SE RIDGECREST RD
(SEPTEMBER 2020 - MARCH 2021)

DIRECTIONS:
APPROXIMATELY 1.5 MILES FROM SE SUNNYSIDE ROAD EAST FROM HWY I-205 TO SE 122ND AVENUE; THEN NORTH APPROXIMATELY 2.0 MILES ON SE 122ND AVENUE TO STA 0+00 OF PROJECT ON SE KING RD.

COORDINATES:
LATITUDE = 45°26'48" N,
LONGITUDE = 122°31'34" W

TAX MAP:
CLACKAMAS COUNTY TAX MAP 12E35BA, 12E35AB, 12E35A & 12E26DB
LOCATED IN THE SOUTH ½ OF SECTION 35, TOWNSHIP 1 S., RANGE 2 E., WILLAMETTE MERIDIAN, CLACKAMAS COUNTY, OREGON

PERMITTEE'S SITE INSPECTOR:

NAME: EDWARD HODGES, P.E.
COMPANY/AGENCY: CURRAN– McLEOD, INC.
PHONE: 503–684–3478
FAX: 503–624–8247
E-MAIL: eph@curran–mcleod.com

DESCRIPTION OF EXPERIENCE:

30 YEARS OF EXPERIENCE IN THE CONSTRUCTION INDUSTRY, 25 YEARS EXPERIENCE INSPECTING/VERIFYING COMPLIANCE WITH JURISDICTIONAL EROSION & SEDIMENT CONTROL REGULATIONS, ATTENDED 16 HOUR CERTIFIED EROSION & SEDIMENT CONTROL LEAD (C.E.S.C.L. #70547) TRAINING COURSE.

ATTENTION EXCAVATORS:

OREGON LAW REQUIRES YOU TO FOLLOW RULES ADOPTED BY THE OREGON UTILITY NOTIFICATION CENTER. THOSE RULES ARE SET FORTH IN OAR 952-001-0010 THROUGH OAR 952-001-0090. YOU MAY OBTAIN COPIES OF THESE RULES BY CALLING THE CENTER.

NOTE: THE TELEPHONE NUMBER FOR THE OREGON UTILITY NOTIFICATION CENTER IS (503) 232-1987 OR 811 OR (877) 668-4001

DEVELOPER

CITY OF HAPPY VALLEY

CONTACT:
CAROL EARLE, P.E.
ENGINEERING MANAGER
ENGINEERING DIVISION0
COMMUNITY & ECONOMIC DEVELOPMENT
DEPARTMENT

16000 SE MISTY DRIVE
HAPPY VALLEY, OR 97086
PHONE: (503) 783-3800

PLANNING /
ENGINEERING/
SURVEYING

CURRAN-McLEOD, INC.

CONTACT: EDWARD HODGES, P.E.
ADDRESS: 6655 S.W. HAMPTON
SUITE 210
PORTLAND, OR 97223
PHONE: 503-684-3478
FAX: 503-624-8247
E-MAIL: eph@curran-mcleod.com

EROSION & SEDIMENT CONTROL PLAN
SHEET INDEX:

- G-4 DEQ 1200-C PERMIT EROSION CONTROL COVER SHEET
G-5 EC4 DEQ 1200-C PERMIT EROSION CONTROL NOTES & DETAILS

NARRATIVE DESCRIPTIONS

EXISTING SITE CONDITIONS

THE EXISTING SITE CONSISTS OF DEVELOPED SUBURBAN ROADS, SOME OF WHICH ARE SITUATED AT STEEP GRADES

POST-CONSTRUCTION SITE CONDITIONS

THE SITE AFTER COMPLETION OF PROJECT WILL BE SIMILAR TO THE EXISTING CONDITIONS, WITH NEW SIDEWALK, NEW CURB & GUTTER AND PAVEMENT CUTS ALONG SE KING, SE 132ND AVE & SE RIDGECREST RD.

NATURE OF CONSTRUCTION ACTIVITY:
(ALL ACTIVITY WITHIN SEPTEMBER-MARCH 2021 WORK WINDOW)

- REMOVAL OF EXISTING ASPHALT & DEMOLITION AS NEEDED.
- DEMOLITION OF SIDEWALK AND ROW AS REQUIRED.
- STABILIZE VEGETATION & SLOPES ON SE 132ND AVE & SE RIDGECREST RD.
- STREET PAVING AND PLACEMENT OF CONCRETE FOR NEW SIDEWALK AND ADA RAMPS FOR ADA RETROFIT.
- FINAL STABILIZATION, RE-VEGETATION AS REQUIRED, AND REMOVAL OF ALL EROSION CONTROL MEASURES.

DEQ 1200-C STANDARD NOTES

- HOLD A PRE-CONSTRUCTION MEETING OF PROJECT CONSTRUCTION PERSONNEL THAT INCLUDES THE INSPECTOR TO DISCUSS EROSION AND SEDIMENT CONTROL MEASURES AND CONSTRUCTION LIMITS. (Schedule A.8.c.i.(3))
- ALL INSPECTIONS MUST BE MADE IN ACCORDANCE WITH DEQ 1200-C PERMIT REQUIREMENTS. (Schedule A.12.b & Schedule B.1)
- INSPECTION LOGS MUST BE KEPT IN ACCORDANCE WITH DEQ'S 1200-C PERMIT REQUIREMENTS. (Schedule B.1.c & B.2)
- RETAIN A COPY OF THE ESCP AND ALL REVISIONS ON SITE AND MAKE IT AVAILABLE ON REQUEST TO DEQ, AGENT, OR THE LOCAL MUNICIPALITY. DURING INACTIVE PERIODS OF GREATER THAN SEVEN (7) CONSECUTIVE CALENDAR DAYS, THE ABOVE RECORDS MUST BE RETAINED BY THE PERMIT REGISTRANT BUT DO NOT NEED TO BE AT THE CONSTRUCTION SITE. (Schedule B.2.c)
- ALL PERMIT REGISTRANTS MUST IMPLEMENT THE ESCP. FAILURE TO IMPLEMENT ANY OF THE CONTROL MEASURES OR PRACTICES DESCRIBED IN THE ESCP IS A VIOLATION OF THE PERMIT. (Schedule A.8.a)
- THE ESCP MUST BE ACCURATE AND REFLECT SITE CONDITIONS. (Schedule A.12.c.i)
- SUBMISSION OF ALL ESCP REVISIONS IS NOT REQUIRED. SUBMITTAL OF THE ESCP REVISIONS IS ONLY UNDER SPECIFIC CONDITIONS. SUBMIT ALL NECESSARY REVISION TO DEQ OR AGENT WITHIN 10 DAYS. (Schedule A.12.c.iv. and v)
- PHASE CLEARING AND GRADING TO THE MAXIMUM EXTENT PRACTICAL TO PREVENT EXPOSED INACTIVE AREAS FROM BECOMING A SOURCE OF EROSION. (Schedule A.7.a.iii)
- IDENTIFY, MARK, AND PROTECT (BY CONSTRUCTION FENCING OR OTHER MEANS) CRITICAL RIPARIAN AREAS AND VEGETATION INCLUDING IMPORTANT TREES AND ASSOCIATED ROOTING ZONES, AND VEGETATION AREAS TO BE PRESERVED. IDENTIFY VEGETATIVE BUFFER ZONES BETWEEN THE SITE AND SENSITIVE AREAS (E.G., WETLANDS), AND OTHER AREAS TO BE PRESERVED, ESPECIALLY IN PERIMETER AREAS. (Schedule A.8.c.i.(1) & (2))
- PRESERVE EXISTING VEGETATION WHEN PRACTICAL AND RE-VEGETATE OPEN AREAS. RE-VEGETATE OPEN AREAS WHEN PRACTICABLE BEFORE AND AFTER GRADING OR CONSTRUCTION. IDENTIFY THE TYPE OF VEGETATIVE SEED MIX USED. (Schedule A.7.v)
- MAINTAIN & DELINEATE ANY EXISTING NATURAL BUFFER WITHIN THE 50-FEET OF WATERS OF THE STATE. (Schedule A.7.b.i & (2)(a)(b))
- INSTALL PERIMETER SEDIMENT CONTROL, INCLUDING STORM DRAIN INLET PROTECTION AS WELL AS ALL SEDIMENT BASINS, TRAPS, AND BARRIERS PRIOR TO LAND DISTURBANCE. (Schedule A.8.c.i.(5))
- CONTROL BOTH PEAK FLOW RATES AND TOTAL STORMWATER VOLUME, TO MINIMIZE EROSION AT OUTLETS AND DOWNSTREAM CHANNELS AND STREAMBANKS. (Schedule A.7.c)
- CONTROL SEDIMENT AS NEEDED ALONG THE SITE PERIMETER AND AT ALL OPERATIONAL INTERNAL STORM DRAIN INLETS AT ALL TIMES DURING CONSTRUCTION, BOTH INTERNALLY AND AT THE SITE BOUNDARY. (Schedule A.7.d.i)
- ESTABLISH CONCRETE TRUCK AND OTHER CONCRETE EQUIPMENT WASHOUT AREAS BEFORE BEGINNING CONCRETE WORK. (Schedule A.8.c.i.(6))
- APPLY TEMPORARY AND/OR PERMANENT SOIL STABILIZATION MEASURES IMMEDIATELY ON ALL DISTURBED AREAS AS GRADING PROGRESSES. TEMPORARY OR PERMANENT STABILIZATIONS MEASURES ARE NOT REQUIRED FOR AREAS THAT ARE INTENDED TO BE LEFT UNVEGETATED, SUCH AS DIRT ACCESS ROADS OR UTILITY POLE PADS. (Schedule A.8.c.ii.(3))
- ESTABLISH MATERIAL AND WASTE STORAGE AREAS, AND OTHER NON-STORMWATER CONTROLS. (Schedule A.8.c.i.(7))
- PREVENT TRACKING OF SEDIMENT ONTO PUBLIC OR PRIVATE ROADS USING BMPS SUCH AS: CONSTRUCTION ENTRANCE, GRAVELED (OR PAVED) EXITS AND PARKING AREAS, GRAVEL ALL UNPAVED ROADS LOCATED ONSITE, OR USE AN EXIT TIRE WASH. THESE BMPS MUST BE IN PLACE PRIOR TO LAND-DISTURBING ACTIVITIES. (Schedule A.7.d.ii & A.8.c.(4))
- WHEN TRUCKING SATURATED SOILS FROM THE SITE, EITHER USE WATER-TIGHT TRUCKS OR DRAIN LOADS ON SITE. (Schedule A.7.d.ii.(5))
- CONTROL PROHIBITED DISCHARGES FROM LEAVING THE CONSTRUCTION SITE, I.E., CONCRETE WASHOUT, WASTEWATER FROM CLEANOUT OF STUCCO, PAINT AND CURING COMPOUNDS. (Schedule A.6)
- USE BMPS TO PREVENT OR MINIMIZE STORMWATER EXPOSURE TO POLLUTANTS FROM SPILLS; VEHICLE AND EQUIPMENT FUELING, MAINTENANCE, AND STORAGE; OTHER CLEANING AND MAINTENANCE ACTIVITIES; AND WASTE HANDLING ACTIVITIES. THESE POLLUTANTS INCLUDE FUEL, HYDRAULIC FLUID, AND OTHER OILS FROM VEHICLES AND MACHINERY, AS WELL AS DEBRIS, FERTILIZER, PESTICIDES AND HERBICIDES, PAINTS, SOLVENTS, CURING COMPOUNDS AND ADHESIVES FROM CONSTRUCTION OPERATIONS. (Schedule A.7.e.i.(2))
- IMPLEMENT THE FOLLOWING BMPS WHEN APPLICABLE: WRITTEN SPILL PREVENTION AND RESPONSE PROCEDURES, EMPLOYEE TRAINING ON SPILL PREVENTION AND PROPER DISPOSAL PROCEDURES, SPILL KITS IN ALL VEHICLES, REGULAR MAINTENANCE SCHEDULE FOR VEHICLES AND MACHINERY, MATERIAL DELIVERY AND STORAGE CONTROLS, TRAINING AND SIGNAGE, AND COVERED STORAGE AREAS FOR WASTE AND SUPPLIES. (Sch A 7.e.iii.)
- USE WATER, SOIL-BINDING AGENT OR OTHER DUST CONTROL TECHNIQUE AS NEEDED TO AVOID WIND-BLOWN SOIL. (Schedule A.7.a.iv)
- THE APPLICATION RATE OF FERTILIZERS USED TO REESTABLISH VEGETATION MUST FOLLOW MANUFACTURER'S RECOMMENDATIONS TO MINIMIZE NUTRIENT RELEASES TO SURFACE WATERS. EXERCISE CAUTION WHEN USING TIME-RELEASE FERTILIZERS WITHIN ANY WATERWAY RIPARIAN ZONE. (Schedule A.9.b.iii)
- IF AN ACTIVE TREATMENT SYSTEM (FOR EXAMPLE, ELECTRO-COAGULATION, FLOCCULATION, FILTRATION, ETC.) FOR SEDIMENT OR OTHER POLLUTANT REMOVAL IS EMPLOYED, SUBMIT AN OPERATION AND MAINTENANCE PLAN (INCLUDING SYSTEM SCHEMATIC, LOCATION OF SYSTEM, LOCATION OF INLET, LOCATION OF DISCHARGE, DISCHARGE DISPERSED DEVICE DESIGN, AND A SAMPLING PLAN AND FREQUENCY) BEFORE OPERATING THE TREATMENT SYSTEM. OBTAIN PLAN APPROVAL BEFORE OPERATING THE TREATMENT SYSTEM. OPERATE AND MAINTAIN THE TREATMENT SYSTEM ACCORDING TO MANUFACTURER'S SPECIFICATIONS. (Schedule A.9.d)
- TEMPORARILY STABILIZE SOILS AT THE END OF THE SHIFT BEFORE HOLIDAYS AND WEEKENDS, IF NEEDED. THE REGISTRANT IS RESPONSIBLE FOR ENSURING THAT SOILS ARE STABLE DURING RAIN EVENTS AT ALL TIMES OF THE YEAR. (Schedule A.7.b)
- AS NEEDED BASED ON WEATHER CONDITIONS, AT THE END OF EACH WORKDAY SOIL STOCKPILES MUST BE STABILIZED OR COVERED, OR OTHER BMPS MUST BE IMPLEMENTED TO PREVENT DISCHARGES TO SURFACE WATERS OR CONVEYANCE SYSTEMS LEADING TO SURFACE WATERS. (Schedule A.7.c.ii.(2))
- CONSTRUCTION ACTIVITIES MUST AVOID OR MINIMIZE EXCAVATION AND BARE GROUND ACTIVITIES DURING WET WEATHER. (Schedule A.7.a.i)
- SEDIMENT FENCE: REMOVE TRAPPED SEDIMENT BEFORE IT REACHES ONE THIRD OF THE ABOVE GROUND FENCE HEIGHT AND BEFORE FENCE REMOVAL. (Schedule A.9.c.i)
- OTHER SEDIMENT BARRIERS (SUCH AS BIOBAGS): REMOVE SEDIMENT BEFORE IT REACHES TWO INCHES DEPTH ABOVE GROUND HEIGHT. AND BEFORE BMP REMOVAL. (Schedule A.9.c.i)
- CATCH BASINS: CLEAN BEFORE RETENTION CAPACITY HAS BEEN REDUCED BY FIFTY PERCENT. SEDIMENT BASINS AND SEDIMENT TRAPS: REMOVE TRAPPED SEDIMENTS BEFORE DESIGN CAPACITY HAS BEEN REDUCED BY FIFTY PERCENT AND AT COMPLETION OF PROJECT. (Schedule A.9.c.iii & iv)
- WITHIN 24 HOURS, SIGNIFICANT SEDIMENT THAT HAS LEFT THE CONSTRUCTION SITE, MUST BE REMEDIATED. INVESTIGATE THE CAUSE OF THE SEDIMENT RELEASE AND IMPLEMENT STEPS TO PREVENT A RECURRENCE OF THE DISCHARGE WITHIN THE SAME 24 HOURS. ANY IN-STREAM CLEAN UP OF SEDIMENT SHALL BE PERFORMED ACCORDING TO THE OREGON DIVISION OF STATE LANDS REQUIRED TIMEFRAME. (Schedule A.9.b.i)
- THE INTENTIONAL WASHING OF SEDIMENT INTO STORM SEWERS OR DRAINAGE WAYS MUST NOT OCCUR. VACUUMING OR DRY SWEEPING AND MATERIAL PICKUP MUST BE USED TO CLEANUP RELEASED SEDIMENTS. (Schedule A.9.b.ii)
- THE ENTIRE SITE MUST BE TEMPORARILY STABILIZED USING VEGETATION OR A HEAVY MULCH LAYER, TEMPORARY SEEDING, OR OTHER METHOD SHOULD ALL CONSTRUCTION ACTIVITIES CEASE FOR 30 DAYS OR MORE. (Schedule A.7.f.i)
- PROVIDE TEMPORARY STABILIZATION FOR THAT PORTION OF THE SITE WHERE CONSTRUCTION ACTIVITIES CEASE FOR 14 DAYS OR MORE WITH A COVERING OF BLOWN STRAW AND A TACKIFIER, LOOSE STRAW, OR AN ADEQUATE COVERING OF COMPOST MULCH UNTIL WORK RESUMES ON THAT PORTION OF THE SITE. (Schedule A.7.f.ii)
- DO NOT REMOVE TEMPORARY SEDIMENT CONTROL PRACTICES UNTIL PERMANENT VEGETATION OR OTHER COVER OF EXPOSED AREAS IS ESTABLISHED, ONCE CONSTRUCTION IS COMPLETE AND THE SITE IS STABILIZED, ALL TEMPORARY EROSION CONTROLS AND RETAINED SOILS MUST BE REMOVED AND DISPOSED OF PROPERLY, UNLESS DOING SO CONFLICTS WITH LOCAL REQUIREMENTS. (Schedule A.8.c.iii(1) & D.3.c.ii and iii)

SE KING RD, SE 132ND AVE & SE RIDGECREST RD ENVIRONMENTAL PROJECT DATA	
SITE AREA (SF)	126,232
SITE AREA (ACRES)	2.90
DISTURBED AREA (SF)	53,121
DISTURBED AREA (ACRES)	1.22
SITE SOIL CLASSIFICATION: SOIL TYPE 1	13C - CASCADE SILT LOAM, 8 TO 15 PERCENT SLOPES
SITE SOIL CLASSIFICATION: SOIL TYPE 2	13D - CASCADE SILT LOAM, 15 TO 30 PERCENT SLOPES
RECEIVING WATER BODY	MOUNT SCOTT CREEK (RIVER MILE 5.7)
RECEIVING WATER BODY WATER QUALITY LIMITATIONS	ALALINITY (CATEGORY 2 - ATTAINING); SEDIMENTATION (CATEGORY 3 - INSUFFICIENT DATA)

PART II: BMPS WITH ESCP IMPLEMENTATION SCHEDULE

BMP's	YEAR MONTH #	2020												2021			
		1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4
BIOSWALES																	
CHECK DAMS																	
COMPOST BERM																	
COMPOST BLANKETS																	
COMPOST SOCKS																	
CONCRETE TRUCK WASHOUT											X	X	X	X	X	X	X
CONSTRUCTION ENTRANCE																	
DEWATERING (TREATMENT LOCATION, SCHEMATIC, & SAMPLING PLAN REQUIRED)																	
DRAINAGE SWALES																	
EARTH DIKES (STABILIZED)																	
ENERGY DISSIPATORS																	
EROSION CONTROL BLANKETS & MATS (SPECIFY TYPE)																	
HYDROSEEDING																	
INLET PROTECTION											X	X	X	X	X	X	X
MULCHES (STRAW & SEED)											X	X	X	X	X	X	X
MYCORRHIZAE/ BIOFERTILIZERS																	
NATURAL BUFFER ZONE																	
ORANGE FENCING (PROTECT SENSITIVE/PRESERVED AREAS)																	
OUTLET PROTECTION																	
PERMANENT SEEDING & PLANTING											X	X	X	X	X	X	X
PIPE SLOPE DRAINS																	
PLASTIC SHEETING																	
PRESERVE EXISTING VEGETATION																	
SEDIMENT FENCING											X	X	X	X	X	X	X
SEDIMENT BARRIER																	
SEDIMENT TRAP											X	X	X	X	X	X	X
SODDING																	
SOIL TACKIFIERS																	
STRAW WATTLES (OR OTHER MATERIALS)											X	X	X	X	X	X	X
TEMPORARY DIVERSION DIKES																	
TEMPORARY OR PERMANENT SEDIMENTATION BASINS																	
TEMPORARY SEEDING & PLANTING																	
TREATMENT SYSTEM (O & M PLAN REQUIRED)																	
UNPAVED ROADS GRAVELED OR OTHER BMP ON THE ROAD																	
VEGETATIVE BUFFER STRIPS																	

INSPECTION FREQUENCY TABLE & STANDARD
EROSION AND SEDIMENT CONTROL PLAN NOTES:

	SITE CONDITIONS	MINIMUM FREQUENCY
1	ACTIVE PERIOD	DAILY WHEN STORM RUNOFF, INCLUDING RUNOFF FROM SNOW MELT, IS OCCURRING. AT LEAST ONCE EVERY 14 DAYS REGARDLESS OF WHETHER STORMWATER RUNOFF IS OCCURRING
2	PRIOR TO THE SITE BECOMING INACTIVE OR IN ANTICIPATION OF SITE INACCESSIBILITY	ONCE TO ENSURE THAT EROSION AND SEDIMENT CONTROL MEASURES AREA IN WORKING ORDER. ANY NECESSARY MAINTENANCE AND REPAIR MUST BE MADE PRIOR TO LEAVING THE SITE.
3	INACTIVE PERIODS GREATER THAN FOURTEEN (14) CONSECUTIVE CALENDAR DAYS	ONCE EVERY MONTH
4	PERIODS DURING WHICH THE SITE IS INACCESSIBLE DUE TO INCLEMENT WEATHER	IF PRACTICAL, INSPECTIONS MUST OCCUR DAILY AT A RELEVANT AND ACCESSIBLE DISCHARGE POINT OR DOWNSTREAM LOCATION.
5	PERIODS DURING WHICH DISCHARGE IS UNLIKELY DUE TO FROZEN CONDITIONS	MONTHLY. RESUME MONITORING IMMEDIATELY UPON MELT, OR WHEN WEATHER CONDITIONS MAKE DISCHARGE LIKELY.

* HOLD A PRE-CONSTRUCTION MEETING OF PROJECT CONSTRUCTION PERSONNEL THAT INCLUDES THE EROSION CONTROL INSPECTOR.

EROSION / SEDIMENTATION / POLLUTION CONTROL NOTES

1. CONTRACTOR SHALL BE RESPONSIBLE FOR PROPER INSTALLATION AND MAINTENANCE OF ALL EROSION AND SEDIMENT CONTROL MEASURES, IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.

2. THE IMPLEMENTATION OF THESE ESC PLANS AND CONSTRUCTION, MAINTENANCE, REPLACEMENT AND UPGRADING OF THESE ESC FACILITIES IS THE RESPONSIBILITY OF THE CONTRACTOR UNTIL ALL CONSTRUCTION IS COMPLETED AND APPROVED BY THE LOCAL JURISDICTION, AND VEGETATION/LANDSCAPING IS ESTABLISHED. THE OWNER SHALL BE RESPONSIBLE FOR MAINTENANCE AFTER THE PROJECT IS ACCEPTED.

3. THE BOUNDARIES OF THE CLEARING LIMITS SHOWN ON THIS PLAN SHALL BE CLEARLY MARKED IN THE FIELD PRIOR TO CONSTRUCTION. DURING THE CONSTRUCTION PERIOD, NO DISTURBANCE BEYOND THE CLEARING LIMITS SHALL BE PERMITTED. THE MARKINGS SHALL BE MAINTAINED BY THE APPLICANT/CONTRACTOR FOR THE DURATION OF CONSTRUCTION.

4. THE ESC FACILITIES SHOWN ON THIS PLAN MUST BE CONSTRUCTED IN CONJUNCTION WITH ALL CLEARING AND GRADING ACTIVITIES, AND IN SUCH A MANNER AS TO ENSURE THAT SEDIMENT LADEN WATER DOES NOT ENTER THE DRAINAGE SYSTEM, ROADWAYS OR VIOLATE APPLICABLE STANDARDS.

5. THE ESC FACILITIES SHOWN ON THIS PLAN ARE MINIMUM REQUIREMENTS FOR THE ANTICIPATED SITE CONDITIONS. DURING CONSTRUCTION PERIOD, THESE ESC FACILITIES SHALL BE UPGRADED AS NEEDED FOR UNEXPECTED STORM EVENTS D TO ENSURE THAT SEDIMENT AND SEDIMENT LADEN WATER DOES NOT LEAVE THE SITE.

6. THE ESC FACILITIES SHALL BE INSPECTED DAILY BY THE CONTRACTOR AND MAINTAINED AS NECESSARY TO ENSURE THEIR CONTINUED FUNCTIONING. CONTRACTOR IS REQUIRED TO KEEP WRITTEN INSPECTION LOGS.

7. AT NO TIME SHALL THE SEDIMENT BE ALLOWED TO ACCUMULATE MORE THAN 1/3 THE BARRIER HEIGHT. ALL CATCH BASINS AND CONVEYANCE LINES SHALL BE CLEANED PRIOR TO PAVING. THE CLEANING OPERATIONS SHALL NOT FLUSH SEDIMENT LADEN WATER INTO THE DOWNSTREAM SYSTEM.

8. STABILIZED GRAVEL ENTRANCES SHALL BE INSTALLED AT THE BEGINNING OF CONSTRUCTION AND MAINTAINED FOR THE DURATION OF THE PROJECT. ADDITIONAL MEASURES MAY BE REQUIRED TO ENSURE THAT ALL PAVED AREAS ARE KEPT CLEAN FOR THE DURATION OF THE PROJECT.

9. STORM DRAIN INLETS, BASINS AND AREA DRAINS SHALL BE PROTECTED UNTIL PAVEMENT SURFACES ARE COMPLETED AND/OR VEGETATION IS RE-ESTABLISHED.

10. PAVEMENT SURFACES AND VEGETATION ARE TO BE PLACED AS RAPIDLY AS POSSIBLE.

11. SEEDING OR HYDRO-SEEDING SHALL BE PERFORMED NO LATER THAN NOVEMBER 1.

12. IF THERE ARE EXPOSED SOILS OR SOILS NOT FULLY ESTABLISHED FROM OCTOBER 1ST THROUGH APRIL 30TH, THE WET WEATHER EROSION PREVENTION MEASURES WILL BE IN EFFECT. SEE THE EROSION PREVENTION AND SEDIMENT CONTROL PLANNING AND DESIGN MANUAL (CHAPTER 4) FOR REQUIREMENTS.

13. THE OWNER SHALL REMOVE ESC MEASURES WHEN VEGETATION IS FULLY ESTABLISHED.

14. ALL EROSION CONTROL MEASURES SHALL COMPLY WITH LOCAL, STATE AND FEDERAL REGULATIONS.

15. INSTALL WATTLES OR BIOBAGS AROUND EDGE OF EXPOSED BASE FOR SIDEWALK & ADA RAMP WORK AREAS.

INSPECTION AND MAINTENANCE

1. INSPECT DAILY ON ACTIVE SITES, ONCE EVERY TWO WEEKS ON INACTIVE SITES, AND WITHIN 24 HOURS FOLLOWING A 0.5 INCH RAIN EVENT.

2. IMMEDIATELY REPAIR ANY DAMAGE.

3. REMOVE ACCUMULATED SEDIMENT ONCE IT HAS REACHED 1/2 THE BARRIER HEIGHT OR A MAXIMUM OF 10 INCHES, WHICH EVER IS LESS.

4. INSPECT FOR CHANNEL FORMATION PARALLEL TO THE FENCE, WHICH INDICATES THAT THE GEOTEXTILE IS ACTING AS A FLOW BARRIER.

5. REPLACE DETERIORATED OR CLOGGED GEOTEXTILE. CHECK FOR UNDERCUTTING OR PIPING UNDER FENCE

6. CHECK FOR UNDERCUTTING OR PIPING UNDER FENCE.

CEMENT-TREATMENT EROSION CONTROL NOTES:

1. DO NOT PERFORM CEMENT-TREATED BASE (CTB) APPLICATION WITHIN 72 HOURS OF PREDICTED RAINFALL PER NATIONAL WEATHER SERVICE.

2. CONTRACTOR SHALL MAKE EVERY EFFORT TO MINIMIZE CEMENT DUST GENERATION INTO AIR.

TEMPORARY GRASSES AND PERMANENT VEGETATIVE COVER

1. TEMPORARY GRASS COVER MEASURES MUST BE FULLY ESTABLISHED BY NOVEMBER 1 OR OTHER COVER MEASURES WILL HAVE TO IMPLEMENTED UNTIL ADEQUATE GRASS COVERAGE IS ACHIEVED. TO ESTABLISH AN ADEQUATE GRASS STAND FOR CONTROLLING EROSION BY NOVEMBER 1, IT IS RECOMMENDED THAT SEEDING AND MULCHING OCCUR BY NOVEMBER 1. (ANY SEEDING PLANTED AFTER NOVEMBER 1 MUST PRE-GERMINATED GRASS SEED.)

2. HYDROMULCH SHALL BE APPLIED WITH GRASS SEED AT A RATE OF 2000 LB./ACRE ON SLOPES STEEPER THAN 10 PERCENT, HYDROSEED AND MULCH SHALL BE APPLIED WITH A BONDING AGENT (TACKIFIER). APPLICATION RATE AND METHODOLOGY TO BE IN ACCORDANCE WITH SEED SUPPLIER RECOMMENDATIONS.

3. SEEDING-RECOMMENDED EROSION CONTROL GRASS SEED MIXES SHALL FOLLOW SEEDING GUIDELINES AS PER CLACKAMAS COUNTY WES EROSION PREVENTION PLANNING & DESIGN MANUAL SIMILAR MIXES DESIGNED TO ACHIEVE EROSION CONTROL MAY BE SUBSTITUTED IF APPROVED BY JURISDICTION:

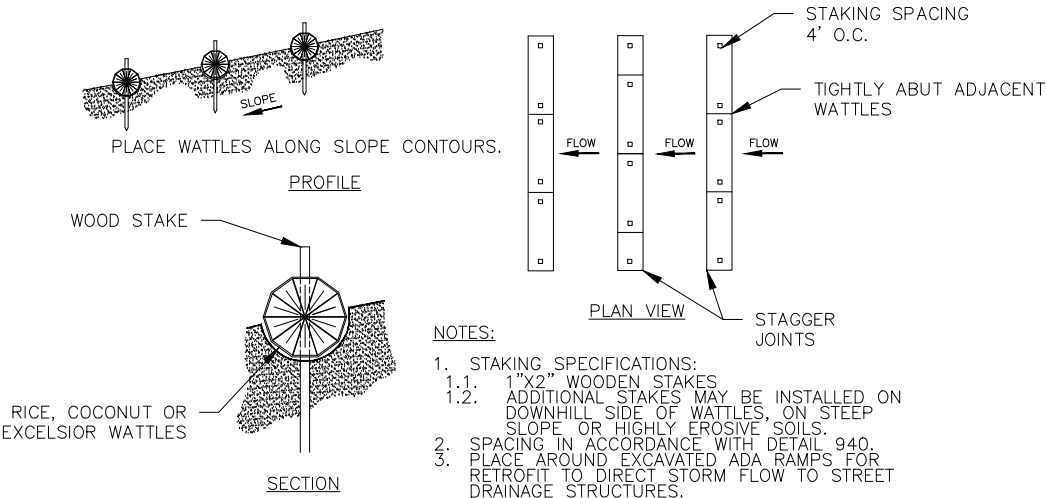
4. FERTILIZATION FOR GRASS SEED - IN ACCORDANCE WITH SUPPLIER'S RECOMMENDATIONS

5. WATERING-SEEDING SHALL BE SUPPLIED WITH ADEQUATE MOISTURE TO ESTABLISH GRASS.

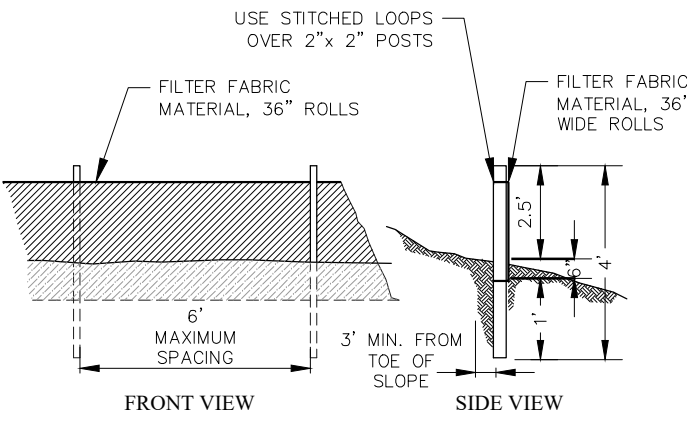
6. SUPPLY WATER AS NEEDED, ESPECIALLY IN ABNORMALLY HOT OR DRY WEATHER OR ON ADVERSE SITES. WATER APPLICATION RATES SHOULD BE CONTROLLED TO PROVIDE ADEQUATE MOISTURE WITHOUT CAUSING RUNOFF.

7. RE-SEEDING - AREAS WHICH FAIL TO ESTABLISH GRASS COVER ADEQUATE TO PREVENT EROSION SHALL BE RE-SEEDED AS SOON AS SUCH AREAS ARE IDENTIFIED, AND ALL APPROPRIATE MEASURES TAKEN TO ESTABLISH ADEQUATE COVER.

8. AT THE END OF SITE CONSTRUCTION, PAVING APPROVED PERMANENT SITE LANDSCAPING OR ESTABLISHMENT OF A HEALTHY STAND OF GRASS (OR ALTERNATIVE VEGETATION AS APPROVED) MUST OCCUR PRIOR TO REMOVAL OF SITE EROSION CONTROL MEASURES.



2 WATTLE DETAIL SCALE: N.T.S.



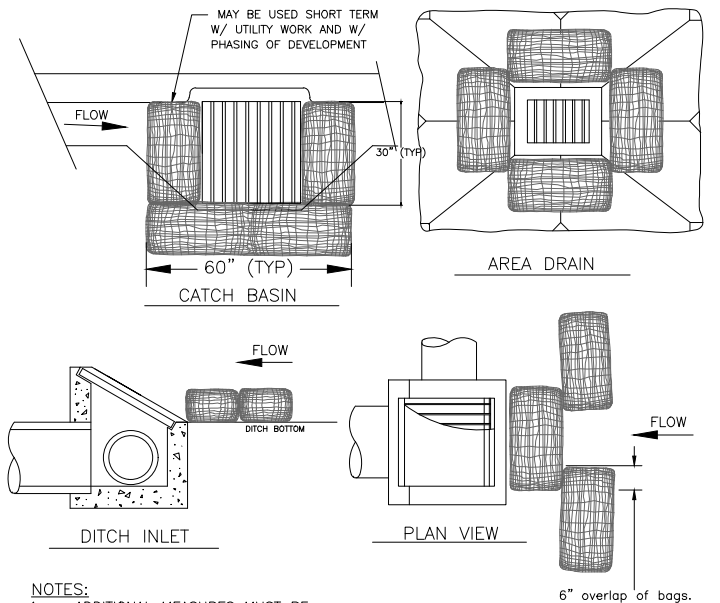
- NOTES:
1. BURY BOTTOM OF FILTER FABRIC MIN. 6" BELOW FINISHED GRADE

2. 2"x 2" FENCE POSTS

3. POSTS TO BE INSTALLED ON UPHILL SIDE OF SLOPE.

4. COMPACT BOTH SIDES OF FILTER FABRIC TRENCH.

1 SEDIMENT FENCE - DETAIL N.T.S.

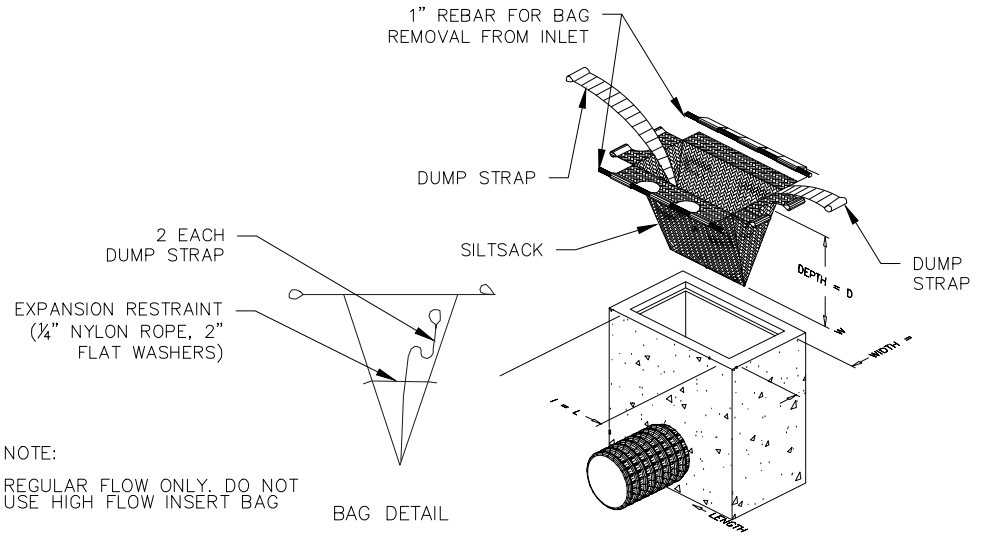


- NOTES:
1. ADDITIONAL MEASURES MUST BE CONSIDERED DEPENDING ON SOIL TYPES.

2. BIO-FILTER BAGS SHOULD BE STAKED WHERE APPLICABLE USING (2) 1"x2" WOODEN STAKES OR APPROVED EQUAL PER BAG.

3. WHEN USING 30" BIO-BAGS TO PROTECT A CATCH BASIN YOU MUST HAVE 4 BAGS AND THEY SHALL BE OVERLAPPED BY 6".

BIO-BAG



CATCH BASIN INSERT

3 CATCH INLET BASIN PROTECTION DETAIL SCALE: N.T.S.

HW

HAPPY VALLEY, OR

EST. 1965

BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST SCALE AS SHOWN ACCORDINGLY.

REV.	DESCRIPTION	REVISED BY	DATE

REVISIONS

REGISTERED PROFESSIONAL ENGINEER

735390PE

OREGON

JAN. 13, 2004

EDWARD P. HODGES

EXPIRES: 06/30/2021

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PHONE (503) 684-3478

CITY OF HAPPY VALLEY

2020 SUPERBLOCK PEDESTRIAN IMPROVEMENTS - PHASE II

KING ROAD, 132ND AVENUE AND RIDGECREST ROAD

EROSION CONTROL NOTES

CLACKAMAS COUNTY, OREGON

DATE: SEPT 2020

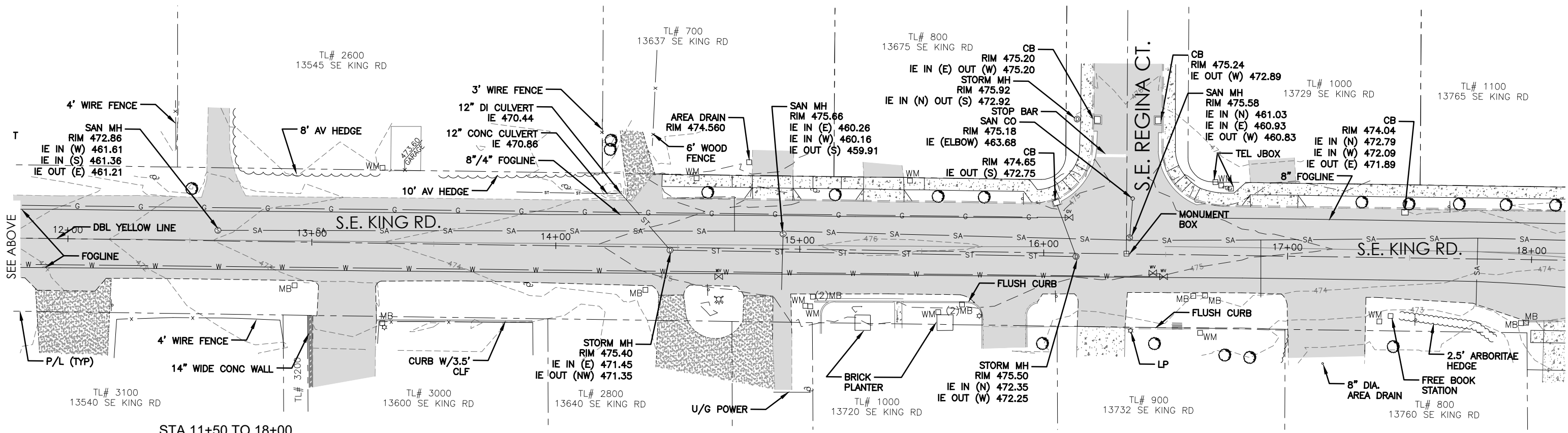
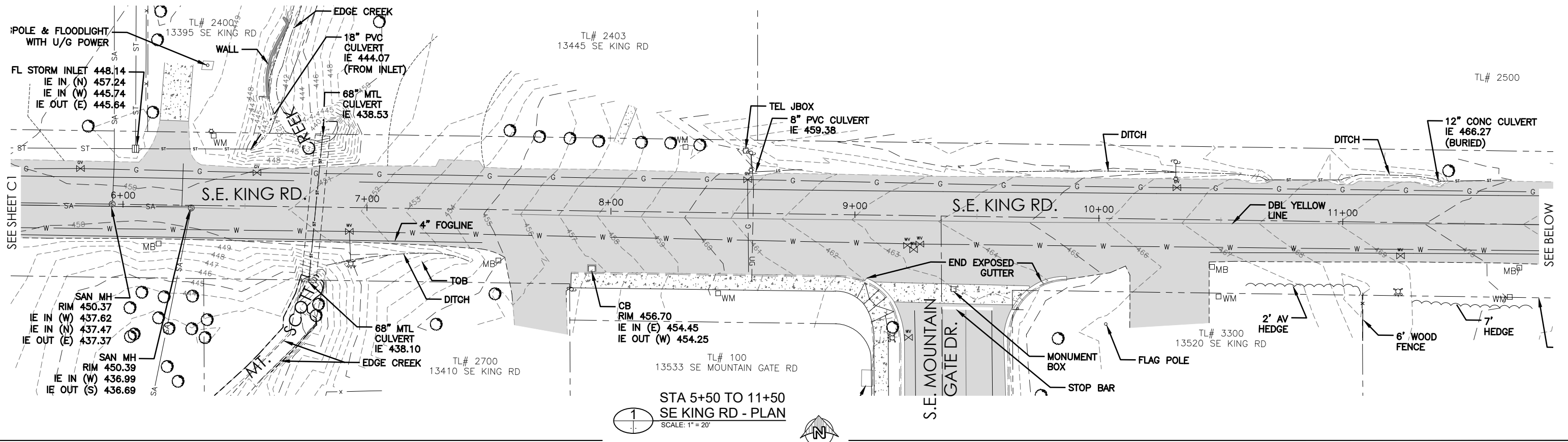
P/N: 1729

D/B: EPH

D/S: JVB/JHH

CAD: 1729-G1-G5

G5 OF 5



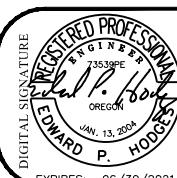
2
STA 11+50 TO 18+00
SE KING RD - PLAN
SCALE: 1" = 20'



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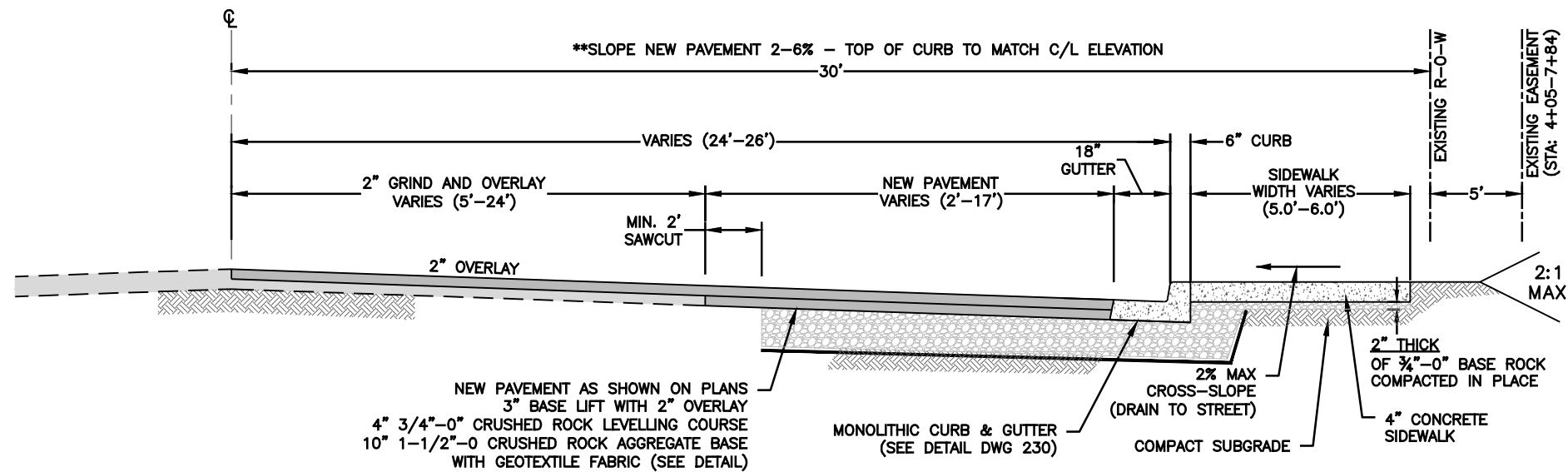
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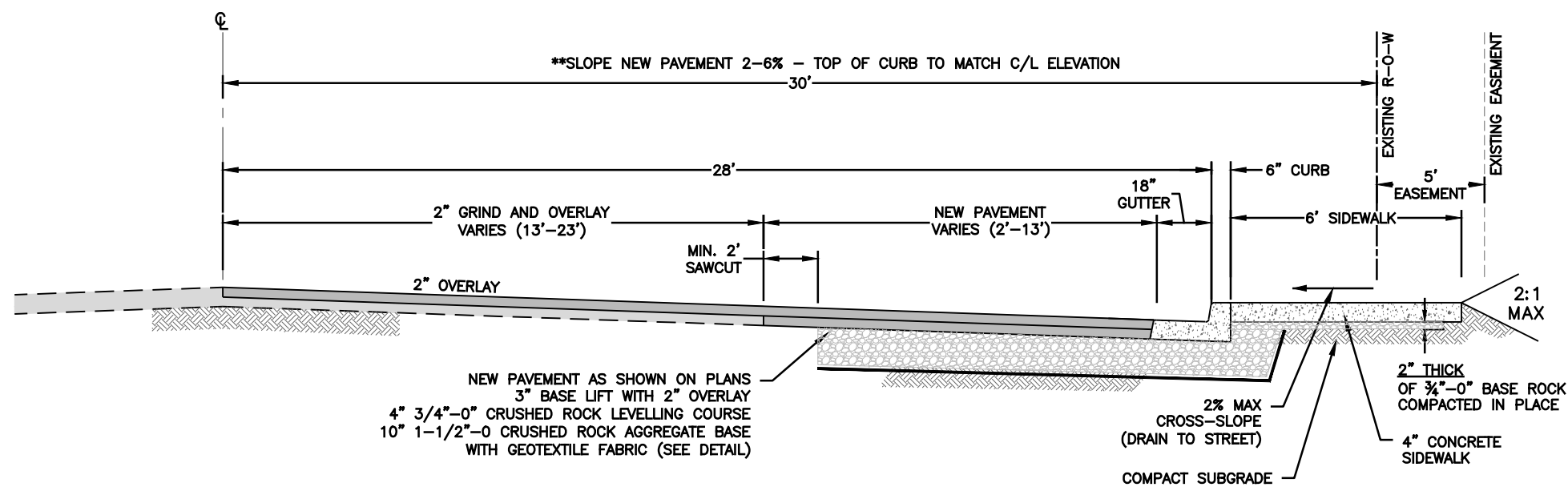
CITY OF HAPPY VALLEY
2020 SUPERBLOCK PEDESTRIAN IMPROVEMENTS - PHASE II
KING ROAD, 132ND AVENUE AND RIDGECREST ROAD
SE KING RD
EXISTING CONDITIONS PLAN
STA 5+50 TO 18+00
CLACKAMAS COUNTY, OREGON

DATE	SEPT 2020
P.N.	1729
D/B	EPH
D/S	JVB/JHH
CAD	1729-C1-C2

C2
OF
49



A SE KING ROAD STA: -3+35 TO 7+87
SCALE: N.T.S



B SE KING ROAD STA: 9+76 TO 17+98
SCALE: N.T.S

ROW CENTERLINE TO FACE OF CURB DIMENSION:

STA: -3+35 TO 1+67: 24'

STA: 2+42 TO 7+50: 26'

STA: 9+76 TO 17+98: 28'

SIDEWALK WIDTHS:

-3+21 TO 1+67: 5.0' WIDTH

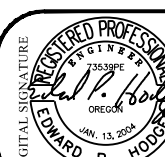
STA: 2+21 TO 17+98: 6.0' WIDTH



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EXPIRES: 06/30/2021

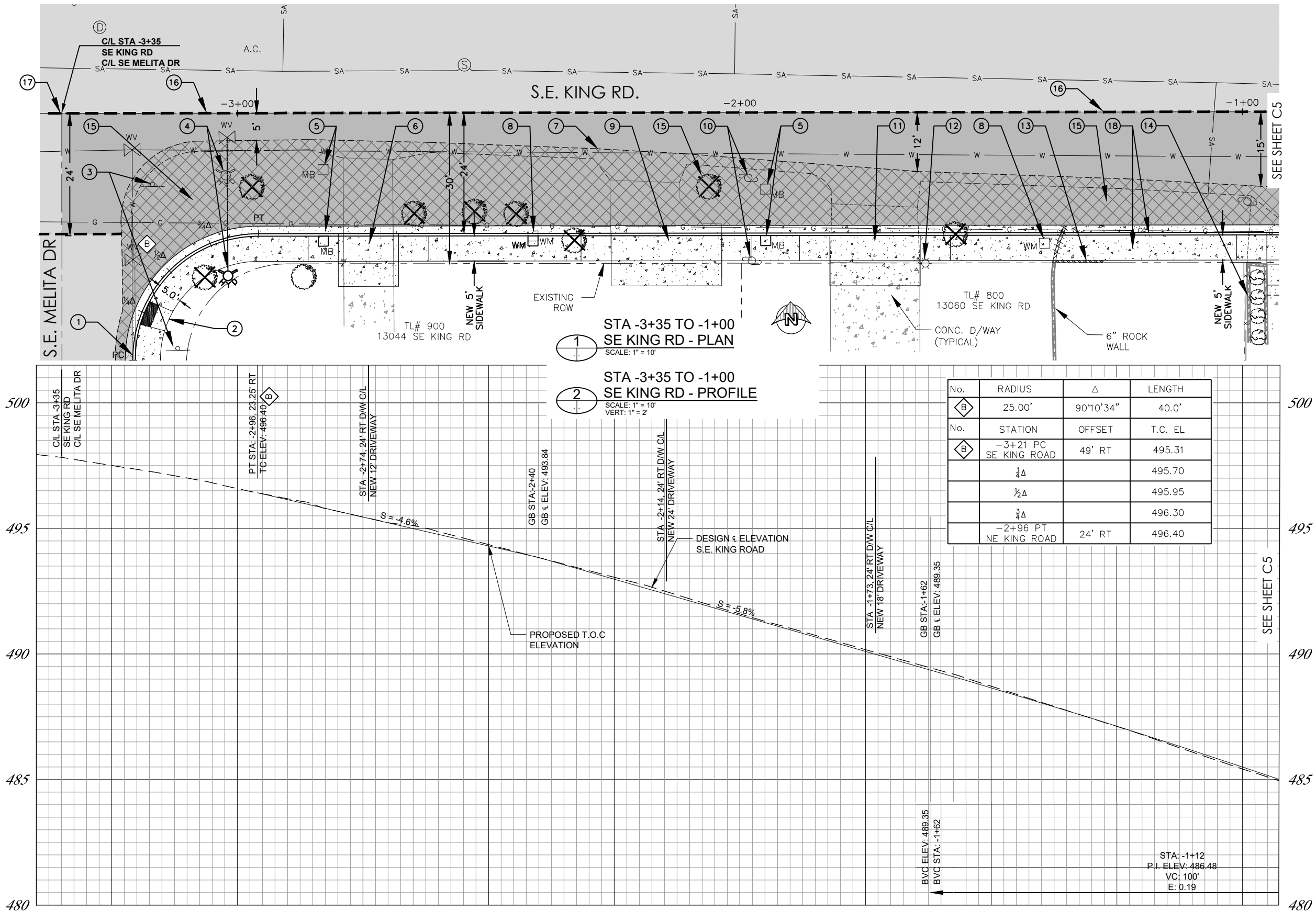
CITY OF HAPPY VALLEY
2020 SUPERBLOCK PEDESTRIAN IMPROVEMENTS - PHASE II
KING ROAD, 132ND AVENUE AND RIDGECREST ROAD
**STREET CROSS SECTIONS
SE KING ROAD**

CLACKAMAS COUNTY, OREGON

DATE	SEPT 2020
P/N	1729
D/B	EPH
D/S	JHH/JVB
CAD#	1729-C3

C3
OF
49

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- CONSTRUCTION NOTES:
- STA: -3+21, 49' RT. BEGIN CURB & SIDEWALK CONSTRUCTION. TC ELEV @ PC = 495.21
 - CONSTRUCT NEW ADA RAMP WITH TRUNCATED DOME MAT. SEE DETAIL 245, SHEET C44.
 - EXISTING STOP SIGN TO BE RELOCATED AS SHOWN ON PLANS.
 - EXISTING FIRE HYDRANT TO BE RELOCATED AS SHOWN ON PLAN BY SWA.
 - EXISTING MAILBOX TO BE RELOCATED TO BEHIND NEW CURB AS SHOWN ON PLAN. MAINTAIN MIN. 48" CLEARANCE BETWEEN MB AND PP.
 - STA: -2+74, 24' RT. D/W C/L CONSTRUCT 12' WIDE CONCRETE RESIDENTIAL DRIVEWAY. MATCH EXISTING CONCRETE SURFACE, SEE DETAIL 270, SHEET C39. MIN. 5' DEEP BEHIND DRIVEWAY APRON.
 - SAWCUT 2" MIN. INTO EXISTING PAVEMENT & MATCH EXISTING GRADE.
 - RAISE & RELOCATE EXISTING WATER METER TO MATCH NEW SIDEWALK ELEVATION, SEE DETAIL SHEET C43.
 - STA: -2+14, 24' RT. D/W C/L CONSTRUCT 24' WIDE CONCRETE RESIDENTIAL DRIVEWAY. MATCH EXISTING CONCRETE SURFACE, SEE DETAIL 270, SHEET C39. MIN. 5' DEEP BEHIND DRIVEWAY APRON.
 - EXISTING POWER POLE TO BE RELOCATED. CONTRACTOR TO COORDINATE WITH PGE.
 - STA: -1+73, 24' RT. D/W C/L 18' WIDE CONCRETE RESIDENTIAL DRIVEWAY. MATCH EXISTING CONCRETE SURFACE, SEE DETAIL 270, SHEET C39. 5' DEEP BEHIND DRIVEWAY APRON.
 - EXISTING LAMP POST TO BE RELOCATED IF NEEDED.
 - CONSTRUCT NEW MASONRY BLOCK RETAINING WALL ALONG SIDEWALK AS REQUIRED. SEE DETAIL 3, SHEET C43.
 - PROTECT EXISTING CONCRETE WALL AND FENCE DURING CONSTRUCTION.
 - REMOVE EXISTING PAVEMENT, CURBS, STRUCTURES AND LANDSCAPING AS REQUIRED. RETURN ALL HARDSCAPE ITEMS TO PROPERTY OWNER AS NEEDED.
 - EDGE OF 2" DEPTH GRIND AND INLAY. MATCH EXISTING PAVEMENT.
 - STA: -3+35 START 2" GRIND AND OVERLAY.
 - NEW CURB & SIDEWALK CONSTRUCTION. SEE DETAIL 250, SHEET C44.



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REV.	DESCRIPTION	REVISED BY	DATE

REVISIONS



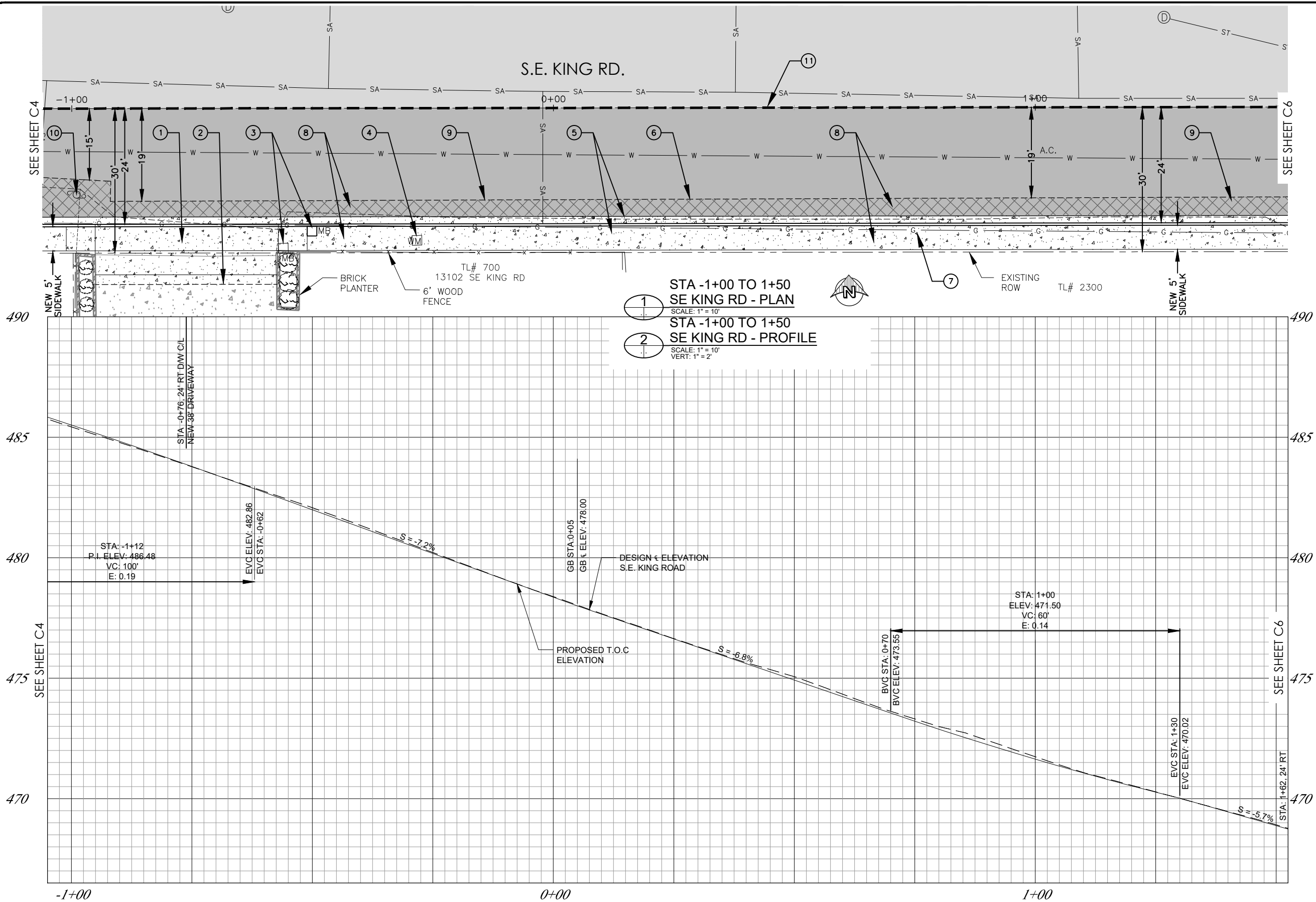
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CITY OF HAPPY VALLEY
2020 SUPERBLOCK PEDESTRIAN IMPROVEMENTS - PHASE II
KING ROAD, 132ND AVENUE AND RIDGECREST ROAD
SE KING RD
STREET IMPROVEMENT PLAN
STA -3+35 TO -1+00
CLACKAMAS COUNTY, OREGON

DATE	SEPT 2020
P.N.	1729
D/B	EPH
D/S	JVB/JHH
CAD	1729-C4-C5

C4 OF 49

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CONSTRUCTION NOTES:

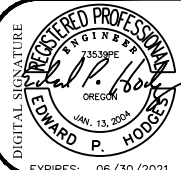
- 1 STA: -0+76, 24' RT. D/W C/L
CONSTRUCT 38' WIDE CONCRETE
RESIDENTIAL DRIVEWAY. MATCH
EXISTING CONCRETE, SEE DETAIL
270, SHEET C39. MIN. 5' DEEP
BEHIND CONCRETE APRON.
- 2 SAWCUT AS SHOWN ON PLAN.
- 3 REMOVE AND REINSTALL EXISTING
MAILBOX AS SHOWN ON PLAN.
- 4 RAISE EXISTING WATER METER TO
MATCH NEW SIDEWALK ELEVATION.
- 5 NEW CURB & SIDEWALK
CONSTRUCTION. SEE DETAIL 250,
SHEET C44.
- 6 SAWCUT 2' MIN. INTO EXISTING
PAVEMENT & MATCH EXISTING
GRADE.
- 7 EXISTING GASLINE, COORDINATE
WITH NW NATURAL.
- 8 REMOVE EXISTING PAVEMENT,
CURBS, STRUCTURES AND
LANDSCAPING AS REQUIRED.
RETURN ALL HARDSCAPE ITEMS
TO PROPERTY OWNER AS NEEDED
- 9 NEW AC PAVEMENT AND SUBBASE,
SEE DETAIL 160, SHEET C40.
- 10 RELOCATE EXISTING UTILITY POLE.
CONTRACTOR TO COORDINATE
ALL EFFORTS WITH PGE.
- 11 EDGE OF 2" DEPTH GRIND AND
INLAY. MATCH EXISTING
PAVEMENT.



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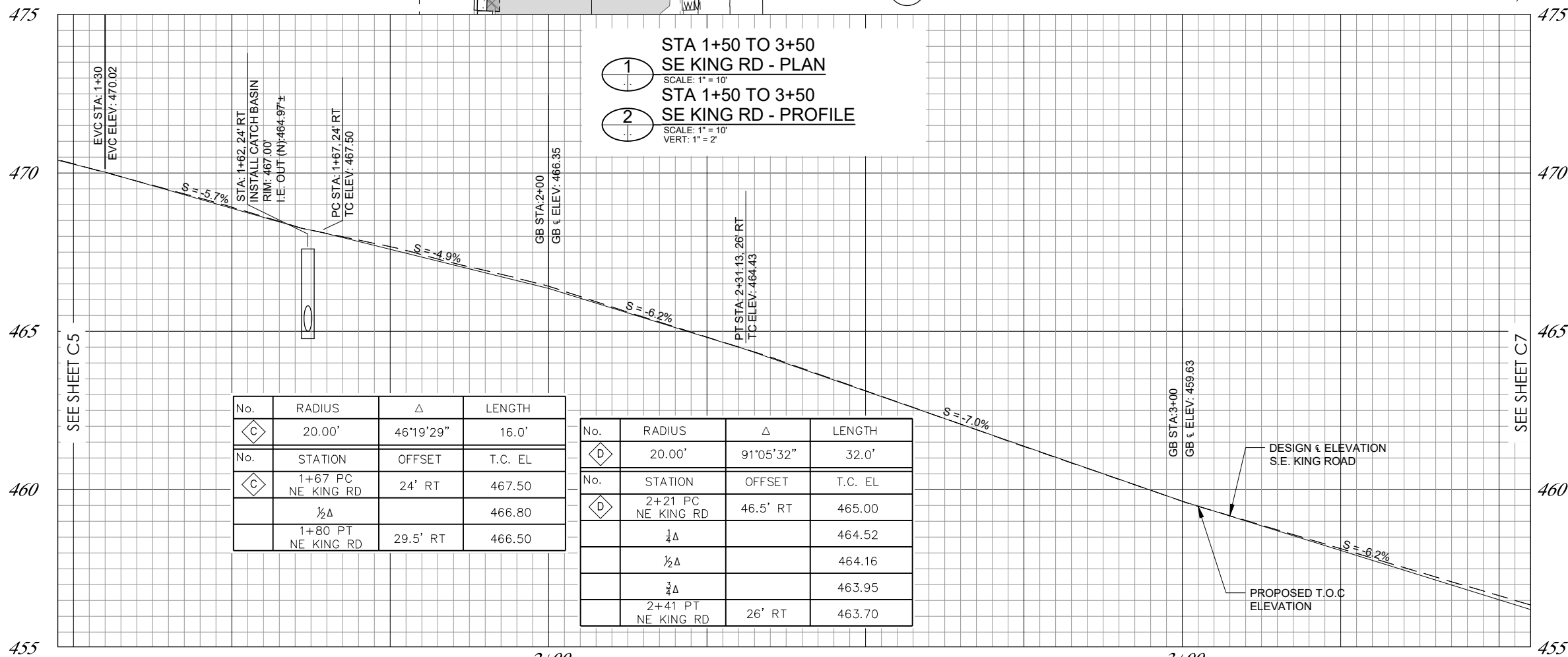
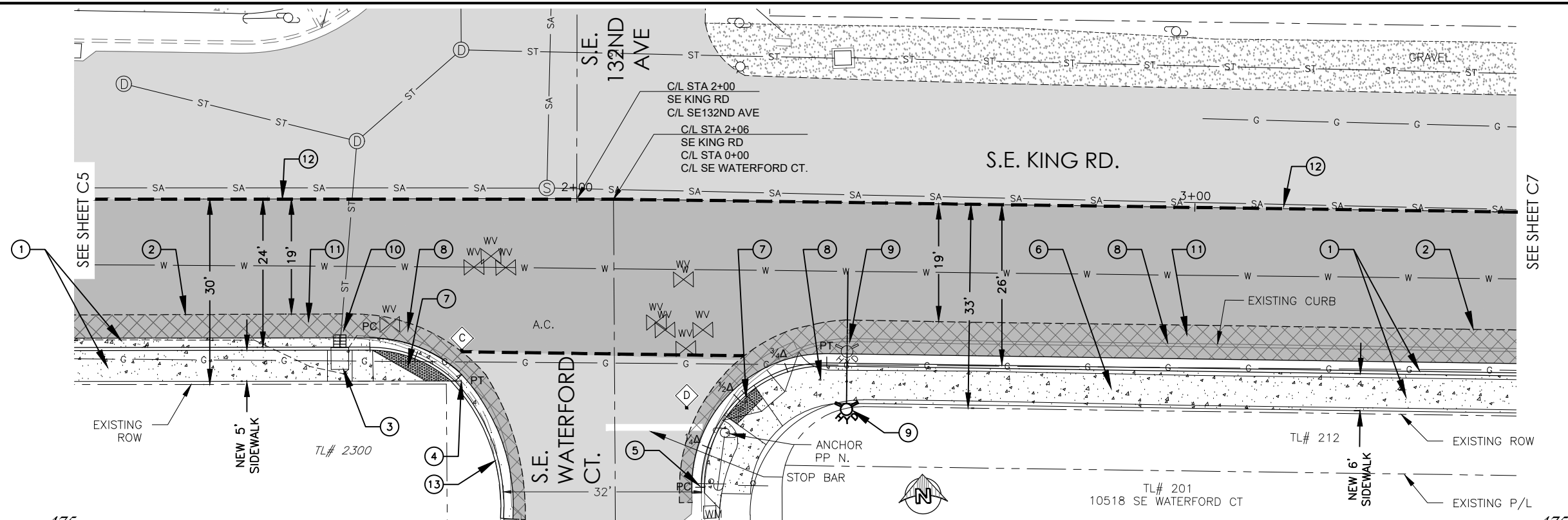


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CITY OF HAPPY VALLEY
2020 SUPERBLOCK PEDESTRIAN IMPROVEMENTS - PHASE II
KING ROAD, 132ND AVENUE AND RIDGECREST ROAD
SE KING RD
STREET IMPROVEMENT PLAN
STA -1+00 TO 1+50
CLACKAMAS COUNTY, OREGON

DATE	SEPT 2020
P.N.	1729
D/B	EPH
D/S	JVB/JHH
CAD	1729-C4-C5

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- 1 STA 1+50 TO 3+50
SE KING RD - PLAN
SCALE: 1" = 10'
- 2 STA 1+50 TO 3+50
SE KING RD - PROFILE
SCALE: 1" = 10'
VERT: 1" = 2'

No.	RADIUS	Δ	LENGTH
C	20.00'	46°19'29"	16.0'
No.	STATION	OFFSET	T.C. EL
C	1+67 PC NE KING RD	24' RT	467.50
	1/2Δ		466.80
	1+80 PT NE KING RD	29.5' RT	466.50

No.	RADIUS	Δ	LENGTH
D	20.00'	91°05'32"	32.0'
No.	STATION	OFFSET	T.C. EL
D	2+21 PC NE KING RD	46.5' RT	465.00
	1/4Δ		464.52
	1/2Δ		464.16
	3/4Δ		463.95
	2+41 PT NE KING RD	26' RT	463.70

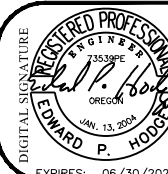
CONSTRUCTION NOTES:

- 1 NEW CURB & SIDEWALK CONSTRUCTION.
- 2 SAWCUT 2' MIN. INTO EXISTING PAVEMENT AND MATCH EXISTING GRADE.
- 3 REMOVE EXISTING DITCH INLET.
- 4 STA: 1+65, 22' RT
END NEW CURB
MATCH EXISTING CURB ELEVATION AT SE WATERFORD.
- 5 STA: 2+20.8, 46.4' RT
BEGIN NEW CURB
MATCH EXISTING CURB ELEVATION AT SE WATERFORD.
- 6 EXISTING CURB & SIDEWALK TO BE REMOVED AND REPLACED.
- 7 NEW ADA RAMP WITH TRUNCATED DOME MAT. SEE DETAIL 4, SHEET C42.
- 8 REMOVE EXISTING PAVEMENT, CURBS, STRUCTURES AND LANDSCAPING AS REQUIRED. RETURN ALL HARDSCAPE ITEMS TO PROPERTY OWNER AS NEEDED.
- 9 EXISTING FIRE HYDRANT TO BE RELOCATED AS SHOWN ON PLAN BY SWA.
- 10 INSTALL NEW GB-2 CATCH BASIN. SEE DETAILS, SHEET C41.
RIM: 467.00
IE OUT (N): 464.90
CONNECT TO EXISTING 12" STORM MAIN.
- 11 NEW AC PAVEMENT AND SUBBASE. SEE DETAIL 160, SHEET C40.
- 12 EDGE OF 2" DEPTH GRIND AND INLAY. MATCH EXISTING PAVEMENT.
- 13 15' NEW CURB AND GUTTER TO MEET EXISTING CURB GRADE.



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ACCORDINGLY.

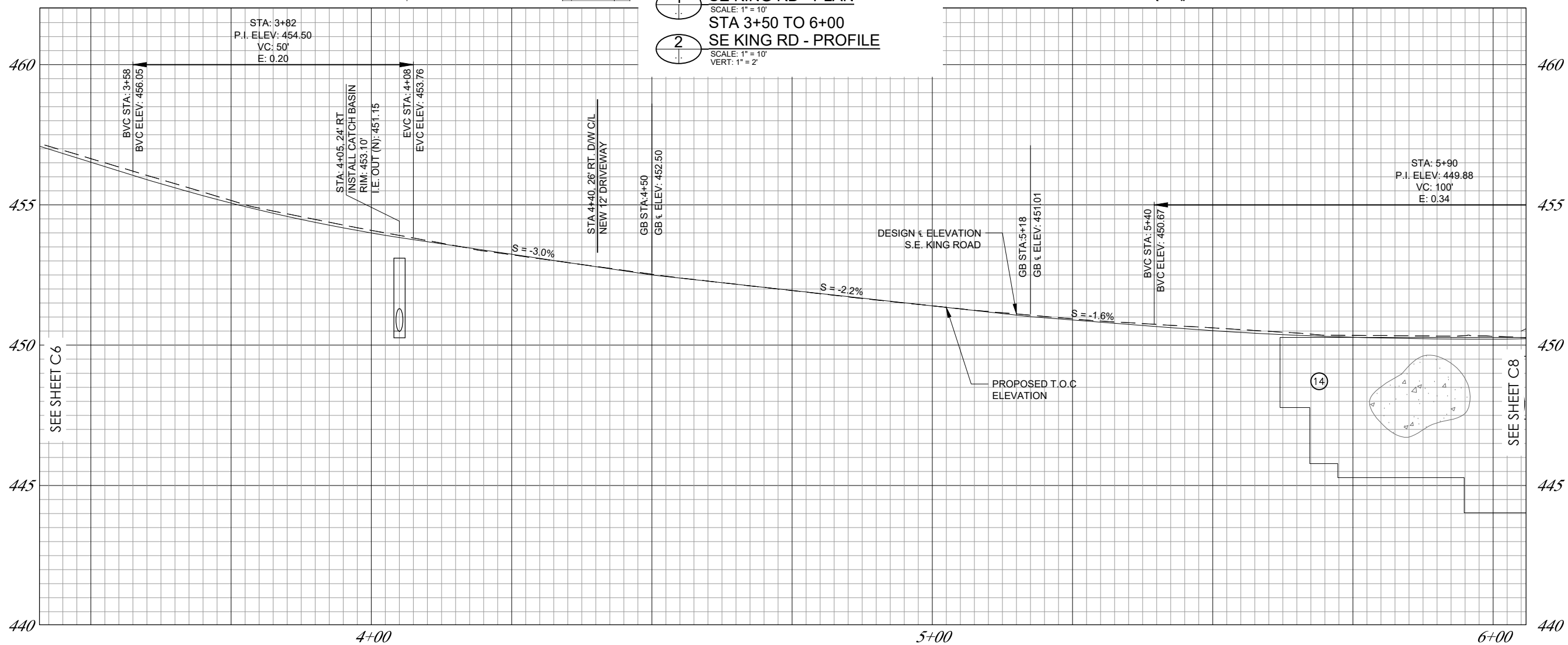
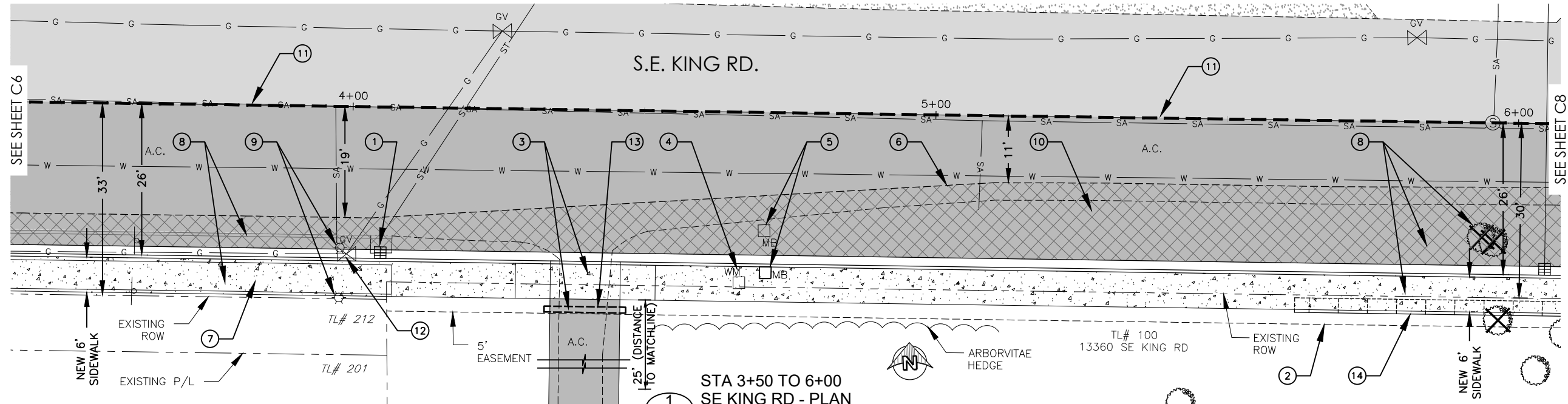
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PHONE (503) 684-3478

CITY OF HAPPY VALLEY
2020 SUPERBLOCK PEDESTRIAN IMPROVEMENTS - PHASE II
KING ROAD, 132ND AVENUE AND RIDGECREST ROAD
SE KING RD
STREET IMPROVEMENT PLAN
STA 1+50 TO 3+50
CLACKAMAS COUNTY, OREGON

DATE	SEPT 2020
P.N.	1729
D/B	EPH
D/S	JVB/JHH
CAD	1729-C6-C7



CONSTRUCTION NOTES:

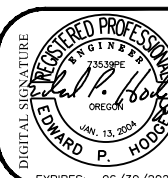
- 1 STA: 4+05
REMOVE EXISTING CATCH BASIN.
INSTALL NEW GB-2 INLET
RIM: 453.1
IE OUT (NE): 451.15
CONNECT TO EXISTING STORM
LINE. SEE DETAILS, SHEET C41.
- 2 STA: 5+62 TO STA: 7+18.5, INSTALL
ULTRA BLOCK RETAINING WALL.
SEE SHEETS C13 AND C14 FOR
DETAILS.
- 3 STA: 4+40, 26' RT. D/W C/L
CONSTRUCT 12' WIDE CONCRETE
RESIDENTIAL DRIVEWAY. 25'x12'
WIDE ASPHALT DRIVEWAY.
MINIMUM 2" OR MATCH EXISTING
D/W THICKNESS LEVEL II AC WITH
6" 3/4-0" CRUSHED ROCK BASE.
MAX. SLOPE 12 PERCENT. MATCH
EXISTING ELEVATION.
- 4 RAISE EXISTING WATER METER TO
MATCH NEW SIDEWALK ELEVATION.
PER DETAIL ON SHEET C43.
- 5 EXISTING MAILBOX TO BE
RELOCATED TO BEHIND NEW
CURB.
- 6 SAWCUT 2' MIN. INTO EXISTING
PAVEMENT AND MATCH EXISTING
GRADE.
- 7 EXISTING CURB & SIDEWALK TO BE
REMOVED AND REPLACED.
- 8 REMOVE EXISTING PAVEMENT,
CURBS, STRUCTURES AND
LANDSCAPING AS REQUIRED.
RETURN ALL HARDSCAPE ITEMS
TO PROPERTY OWNER AS NEEDED.
- 9 RELOCATE LIGHT TO EDGE OF
R-O-W.
- 10 NEW AC PAVEMENT AND SUBBASE.
SEE DETAIL 160, SHEET C40.
- 11 EDGE OF 2" DEPTH GRIND AND
INLAY. MATCH EXISTING
PAVEMENT.
- 12 COORDINATE WITH NORTHWEST
NATURAL GAS CONCERNING
INSTALLATION OF TRAVEL RATED
GAS VALVE COVER.
- 13 12" HDPE CULVERT.
- 14 NEW GRAVITY BLOCK RETAINING
WALL.



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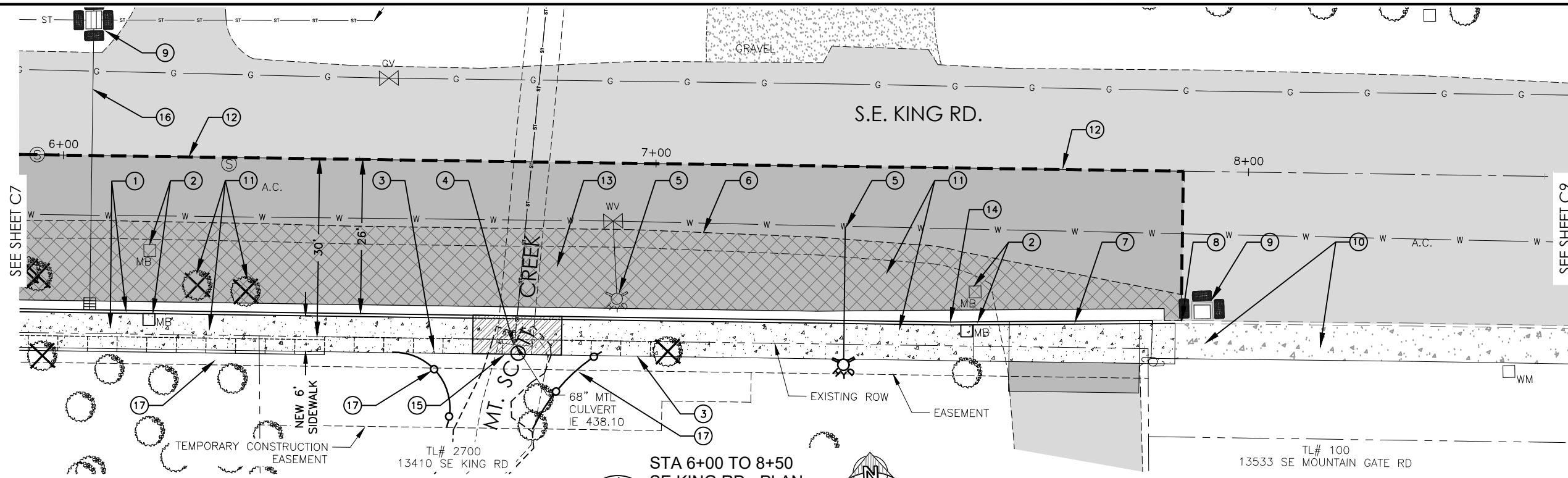
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CITY OF HAPPY VALLEY
2020 SUPERBLOCK PEDESTRIAN IMPROVEMENTS - PHASE II
KING ROAD, 132ND AVENUE AND RIDGECREST ROAD
SE KING RD
STREET IMPROVEMENT PLAN
STA 3+50 TO 6+00
CLACKAMAS COUNTY, OREGON

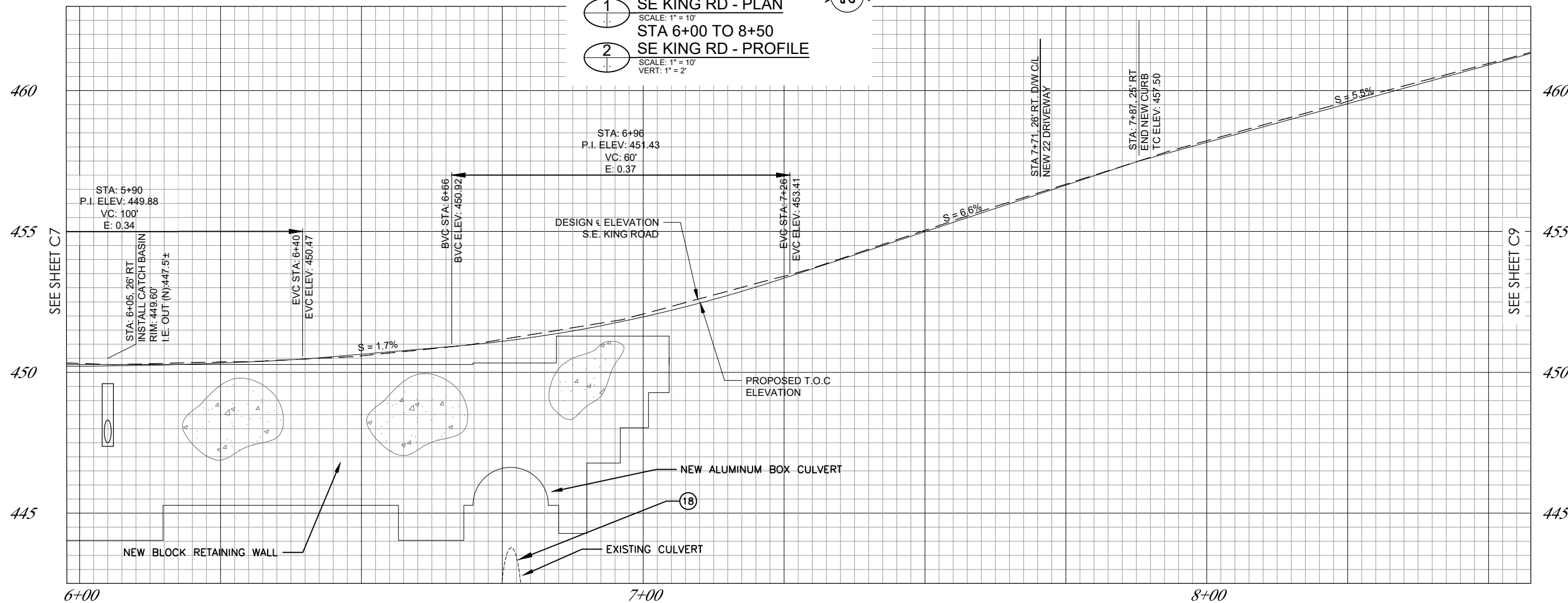
DATE	SEPT 2020
P.N.	1729
D/B	EPH
D/S	JVB/JHH
CAD	1729-C6-C7

C7
OF
49



1
STA 6+00 TO 8+50
SE KING RD - PLAN
SCALE: 1" = 10'

2
STA 6+00 TO 8+50
SE KING RD - PROFILE
SCALE: 1" = 10'
VERT: 1" = 2'

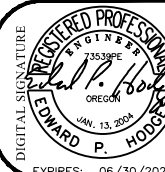


- CONSTRUCTION NOTES:
- 1 NEW CURB AND SIDEWALK CONSTRUCTION.
 - 2 EXISTING MAILBOX TO BE RELOCATED.
 - 3 STA: 5+62 TO STA: 7+04.5, INSTALL ULTRA BLOCK RETAINING WALL. SEE SHEETS C13 AND C14 FOR DETAIL 4, SHEET C43.
 - 4 EXISTING 68" METAL STORM CULVERT.
 - 5 EXISTING FIRE HYDRANT TO BE RELOCATED AS SHOWN ON PLAN BY SWA.
 - 6 SAWCUT 2' MIN. INTO EXISTING PAVEMENT TO SAWCUT LINE.
 - 7 STA: 7+71, 26' RT. D/W C/L CONSTRUCT 22' WIDE CONCRETE RESIDENTIAL DRIVEWAY. MIN. 5' DEEP BEHIND DRIVEWAY APRON
 - 8 STA: 7+87, 25' RT. END NEW SIDEWALK CONSTRUCTION. MATCH EXISTING SIDEWALK ELEVATION.
 - 9 EXISTING CATCH BASIN TO BE PROTECTED. INSTALL BIO-BAGS.
 - 10 EXISTING CURB AND SIDEWALK TO REMAIN.
 - 11 REMOVE EXISTING PAVEMENT, CURBS, STRUCTURES AND LANDSCAPING AS REQUIRED. RETURN ALL HARDSCAPE ITEMS TO PROPERTY OWNER AS NEEDED.
 - 12 EDGE OF 2" DEPTH GRIND AND INLAY. MATCH EXISTING PAVEMENT.
 - 13 NEW AC PAVEMENT AND SUBBASE, SEE DETAIL 160, SHEET C40.
 - 14 STA: 7+50, 26' RT. BEGIN ANGLE POINT. NEW CURB TO MATCH EXISTING CURB, STA: 7+84, 25' RT.
 - 15 NEW CORRUGATED ARCHED METAL PEDESTRIAN BRIDGE. SEE SHEET C14.
 - 16 NEW GB-2 CATCH BASIN
RIM: 449.60
IE OUT (N) 447.5
INSTALL 48LF 12" HDPE PIPE TO EXISTING CB ON NORTH SIDE. MATCH EXISTING IE IN AT 445.75'. SEE DETAILS, SHEET C41.
 - 17 INSTALL SILT FENCE AS SHOWN. SEE DETAIL 1, SHEET G5.
 - 18 CONTRACTOR TO PROTECT EXISTING CULVERT DURING CONSTRUCTION.



BAR IS ONE INCH ON ORIGINAL DRAWING.
ADJUST SCALE AS SHOWN ACCORDINGLY.

REVISIONS

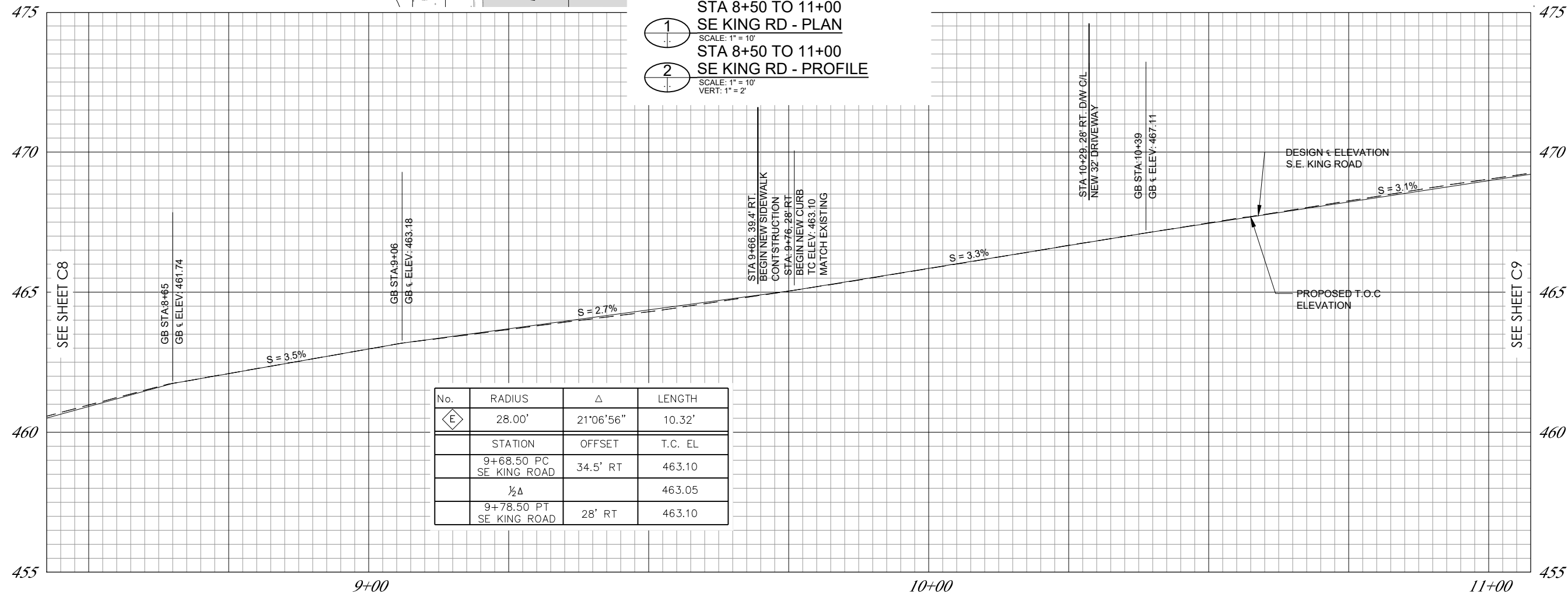
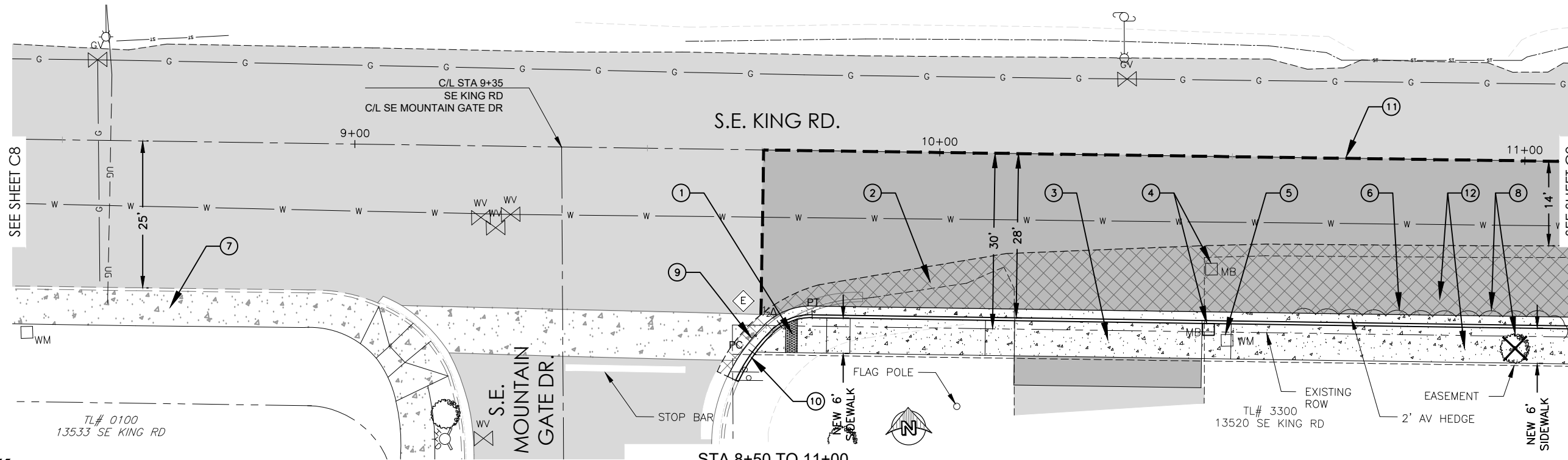


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CONSULTING ENGINEERS
6655 S.W. HAMPTON ST., SUITE 210
PORTLAND, OREGON 97223
PHONE (503) 684-3478

CITY OF HAPPY VALLEY
2020 SUPERBLOCK PEDESTRIAN IMPROVEMENTS - PHASE II
KING ROAD, 132ND AVENUE AND RIDGECREST ROAD
SE KING RD
STREET IMPROVEMENT PLAN
STA 6+00 TO 8+50
CLACKAMAS COUNTY, OREGON

DATE	SEPT 2020
P.N.	1729
D/B	EPH
D/S	JVB/JHH
CAD	1729-C8-C9

C8
OF
49



No.	RADIUS	Δ	LENGTH
1	28.00'	21°06'56"	10.32'
	STATION	OFFSET	T.C. EL
	9+68.50 PC SE KING ROAD	34.5' RT	463.10
	$\frac{1}{2}\Delta$		463.05
	9+78.50 PT SE KING ROAD	28' RT	463.10

CONSTRUCTION NOTES:

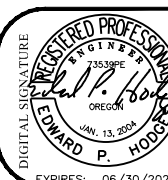
- STA: 9+66, 39.4' RT. BEGIN NEW SIDEWALK CONSTRUCTION. NEW ADA RAMP WITH TRUNCATED DOME. SEE DETAIL 4, SHEET C42. TC = 465.00
- SAWCUT 2' MIN. INTO EXISTING PAVEMENT & MATCH EXISTING GRADE.
- STA: 10+29, 28' RT. D/W C/L CONSTRUCT 32' WIDE CONCRETE RESIDENTIAL DRIVEWAY. MIN. 5' DEEP BEHIND DRIVEWAY APRON.
- EXISTING MAILBOX TO BE RELOCATED.
- RAISE EXISTING WATER METER TO MATCH NEW SIDEWALK. SEE DETAIL ON SHEET C43.
- EXISTING 2' WIDE ARBORVITAE HEDGE TO BE REMOVED.
- EXISTING CURB AND SIDEWALK TO REMAIN. NOT INCLUDED IN PROJECT.
- REMOVE EXISTING PAVEMENT, CURBS, STRUCTURES AND LANDSCAPING AS REQUIRED. RETURN ALL HARDSCAPE ITEMS TO PROPERTY OWNER AS NEEDED.
- INSTALL NEW AT GRADE CONCRETE WALK TO REPLACE EXISTING WALK REMOVED DURING CONSTRUCTION. SEE DETAIL 250, SHEET C44.
- EXISTING CURB TO BE REMOVED REPLACE WITH NEW CURB AND GUTTER WITH VARYING CURB EXPOSURE TO TERMINATE AT EXISTING CURB.
- EDGE OF 2" DEPTH GRIND AND INLAY. MATCH EXISTING PAVEMENT.
- NEW AC PAVEMENT AND SUBBASE. SEE DETAIL 160, SHEET C40.



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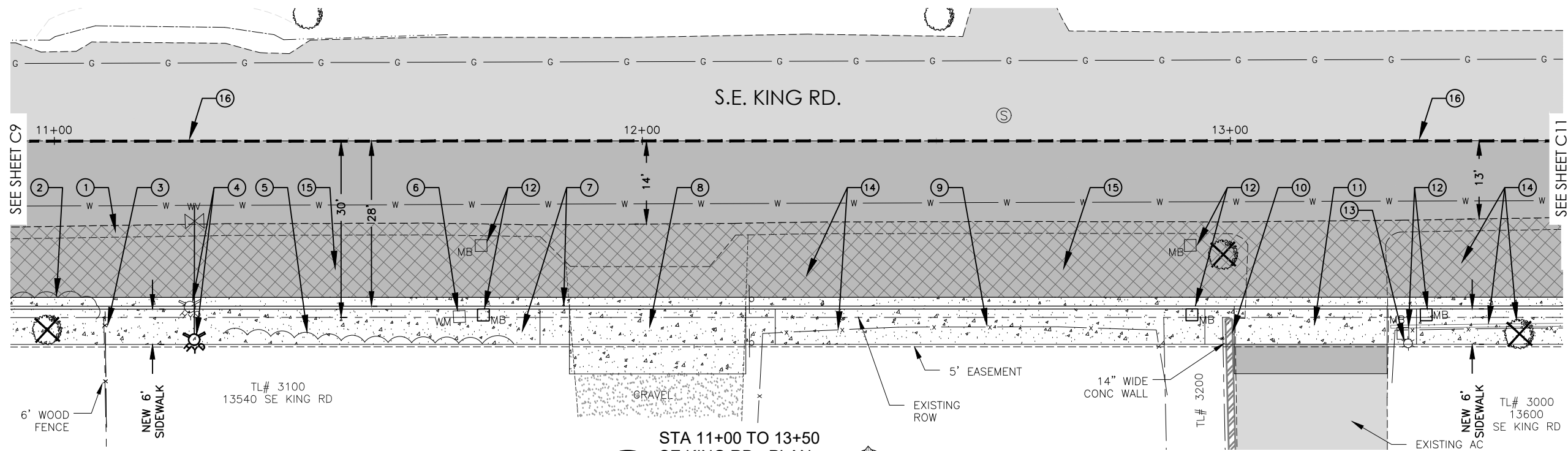
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CITY OF HAPPY VALLEY
2020 SUPERBLOCK PEDESTRIAN IMPROVEMENTS - PHASE II
KING ROAD, 132ND AVENUE AND RIDGECREST ROAD
SE KING RD
STREET IMPROVEMENT PLAN
STA 8+50 TO 11+00
CLACKAMAS COUNTY, OREGON

DATE	SEPT 2020
P.N.	1729
D/B	EPH
D/S	JVB/JHH
CAD	1729-C8-C9

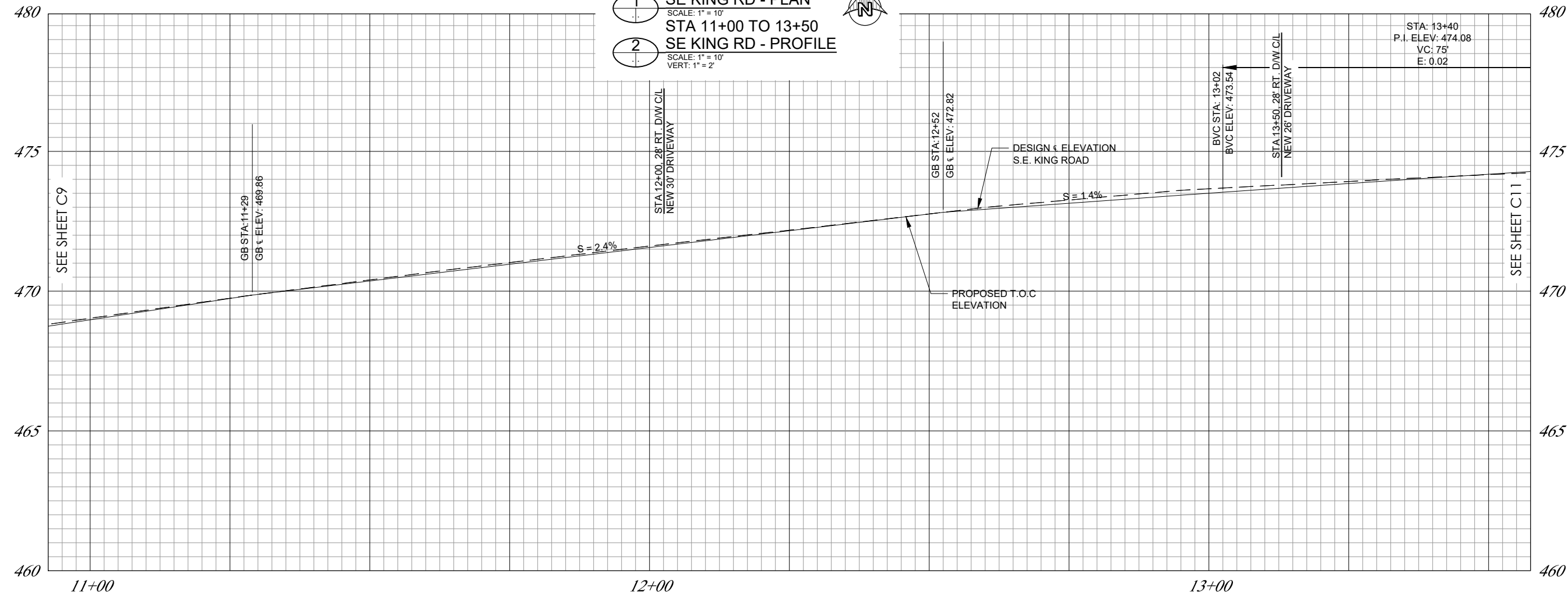
C9
OF
49

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1
STA 11+00 TO 13+50
SE KING RD - PLAN
SCALE: 1" = 10'

2
STA 11+00 TO 13+50
SE KING RD - PROFILE
SCALE: 1" = 10'
VERT: 1" = 2'



CONSTRUCTION NOTES:

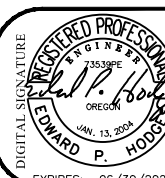
- 1 SAWCUT 2' MIN. INTO EXISTING PAVEMENT & MATCH EXISTING GRADE.
- 2 EXISTING 2' ARBORVITAE HEDGE TO BE REMOVED.
- 3 EXISTING 6' WOOD FENCE TO BE REMOVED TO BACK OF NEW SIDEWALK. REPLACE FENCE AS REQUIRED.
- 4 EXISTING FIRE HYDRANT TO BE RELOCATED AS SHOWN ON PLAN BY SWA.
- 5 EXISTING 7' HEDGE TO BE REMOVED.
- 6 RAISE EXISTING WATER METER TO MATCH NEW SIDEWALK ELEVATION, SEE DETAIL ON SHEET C43.
- 7 NEW CURB AND SIDEWALK CONSTRUCTION. SEE DETAIL 250, SHEET C44.
- 8 STA: 12+00, 28' RT. D/W C/L CONSTRUCT 30' WIDE CONCRETE RESIDENTIAL DRIVEWAY. MIN. 5' DEEP BEHIND DRIVEWAY APRON.
- 9 EXISTING WIRE FENCE TO BE REMOVED AND REINSTALLED BEHIND SIDEWALK ON TAXLOT 3100.
- 10 SAWCUT AND REMOVE 14" CONCRETE WALL TO BACK OF NEW SIDEWALK. REPAIR DAMAGE AND RESURFACE AS REQUIRED.
- 11 STA: 13+15, 28' RT. D/W C/L CONSTRUCT 26' WIDE CONCRETE RESIDENTIAL DRIVEWAY. MIN. 5' DEEP BEHIND DRIVEWAY APRON.
- 12 EXISTING MAILBOX TO BE RELOCATED AS SHOWN ON PLAN.
- 13 EXISTING LAMP POST TO REMAIN IN PLACE.
- 14 REMOVE EXISTING PAVEMENT, CURBS, STRUCTURES AND LANDSCAPING AS REQUIRED. RETURN ALL HARDSCAPE ITEMS TO PROPERTY OWNER AS NEEDED.
- 15 NEW AC PAVEMENT AND SUBBASE. SEE DETAIL 160, SHEET C43.
- 16 EDGE OF 2" DEPTH GRIND AND INLAY. MATCH EXISTING PAVEMENT.



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REV.	DESCRIPTION	REVISED BY	DATE

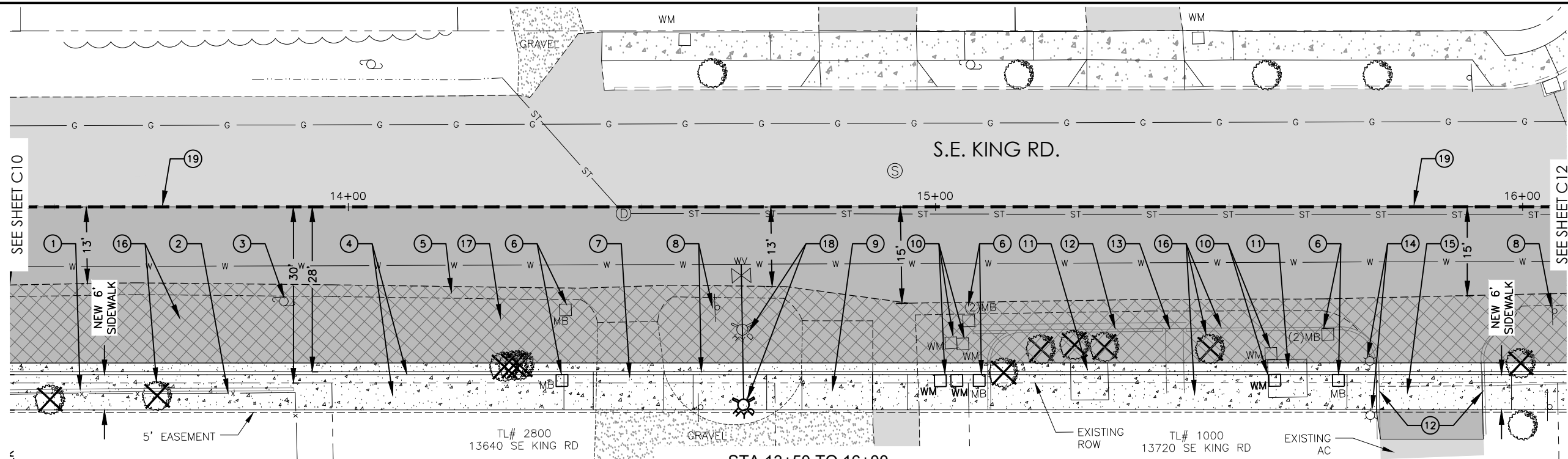
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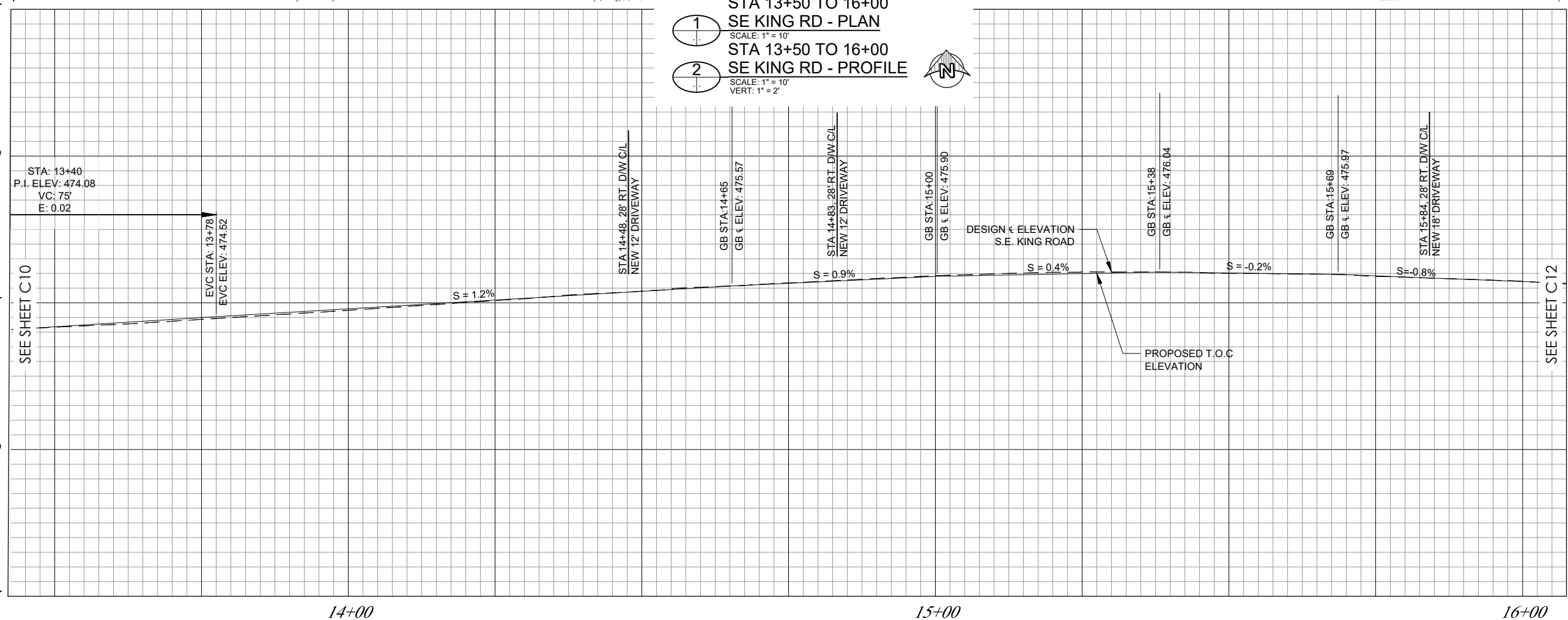
CITY OF HAPPY VALLEY
2020 SUPERBLOCK PEDESTRIAN IMPROVEMENTS - PHASE II
KING ROAD, 132ND AVENUE AND RIDGECREST ROAD
SE KING RD
STREET IMPROVEMENT PLAN
STA 11+00 TO 13+50
CLACKAMAS COUNTY, OREGON

DATE	SEPT 2020
P.N.	1729
D/B	EPH
D/S	JVB/JHH
CAD	729-C10-C12



1
STA 13+50 TO 16+00
SE KING RD - PLAN
SCALE: 1" = 10'

2
STA 13+50 TO 16+00
SE KING RD - PROFILE
SCALE: 1" = 10'
VERT: 1" = 2'



- CONSTRUCTION NOTES:
- 1 EXISTING CURB TO BE REMOVED.
 - 2 EXISTING CHAIN LINK FENCE TO BE REMOVED.
 - 3 RELOCATE EXISTING POWER POLE. COORDINATE WITH PORTLAND GENERAL ELECTRIC.
 - 4 NEW CURB AND SIDEWALK CONSTRUCTION.
 - 5 SAWCUT 2' MINIMUM INTO EXISTING PAVEMENT AND MATCH EXISTING GRADE.
 - 6 RELOCATE EXISTING MAILBOX AS SHOWN ON PLAN.
 - 7 STA: 14+48, 28' RT. CONSTRUCT 12' WIDE CONCRETE RESIDENTIAL DRIVEWAY.
 - 8 EXISTING SIGN TO BE RELOCATED PER SIGNAGE PLAN, SHEET C17.
 - 9 STA: 14+83, 28' RT. CONSTRUCT 12' WIDE CONCRETE RESIDENTIAL DRIVEWAY. SEE DETAIL 270, SHEET C39.
 - 10 EXISTING WATER METERS TO BE RELOCATED. SEE DETAIL ON SHEET C43.
 - 11 EXISTING BRICK PLANTER TO BE REMOVED.
 - 12 EXISTING CURB TO BE REMOVED.
 - 13 EXISTING CONCRETE WALKWAY TO BE REMOVED.
 - 14 RELOCATE EXISTING LAMP POST AS SHOWN ON PLAN.
 - 15 STA: 15+84, 28' RT. CONSTRUCT 18' WIDE CONCRETE RESIDENTIAL DRIVEWAY. MIN. 5' DEEP BEHIND DRIVEWAY APRON.
 - 16 REMOVE EXISTING PAVEMENT, CURBS, STRUCTURES AND LANDSCAPING AS REQUIRED. RETURN ALL HARDSCAPE ITEMS TO PROPERTY OWNER AS NEEDED.
 - 17 NEW AC PAVEMENT AND SUBBASE. SEE DETAIL 160, SHEET C43.
 - 18 EXISTING FIRE HYDRANT TO BE RELOCATED AS SHOWN ON PLAN. REINSTALL AND CONNECT TO EXISTING HYDRANT VALVE WITH NEW 6" WATER LINE HYDRANT PER DETAIL. HYDRANT TO BE LOCATED AT BACK OF S/W OR IF POSSIBLE BEHIND S/W FOR MAXIMUM CLEARANCE.
 - 19 EDGE OF 2" DEPTH GRIND AND OVERLAY. MATCH EXISTING PAVEMENT.

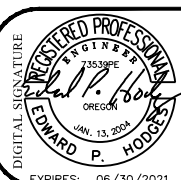
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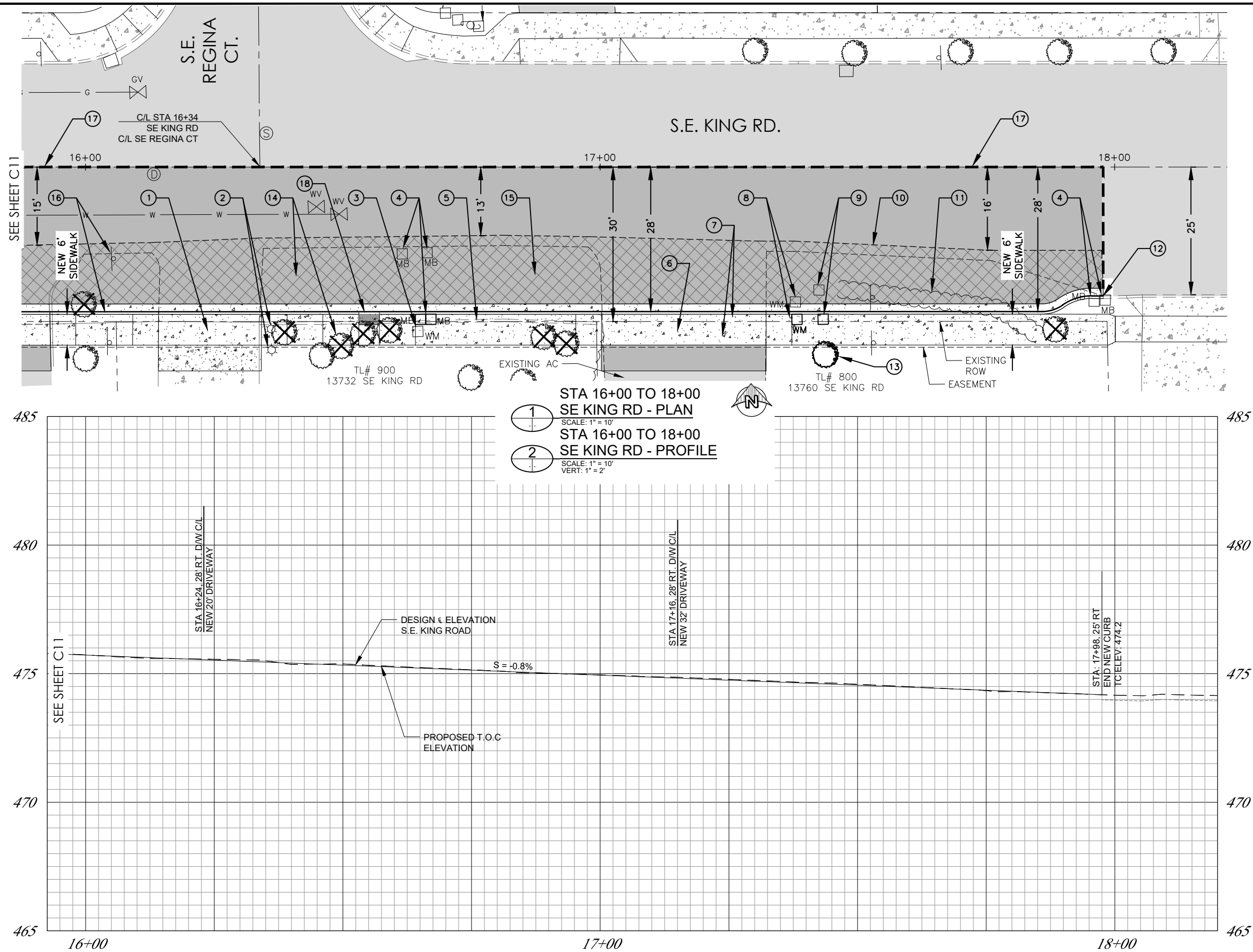


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CITY OF HAPPY VALLEY
2020 SUPERBLOCK PEDESTRIAN IMPROVEMENTS - PHASE II
KING ROAD, 132ND AVENUE AND RIDGECREST ROAD
SE KING RD
STREET IMPROVEMENT PLAN
STA 13-50 TO 16+00
CLACKAMAS COUNTY, OREGON

DATE	SEPT 2020
P.N.	1729
D/B	EPH
D/S	JVB/JHH
CD	1729-C10-C12

C11
OF
49



CONSTRUCTION NOTES:

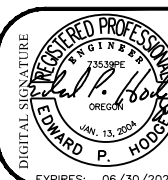
- 1 STA: 16+24, 28' RT. D/W C/L
CONSTRUCT 20' WIDE CONCRETE
RESIDENTIAL DRIVEWAY. 5' DEEP BEHIND
DRIVEWAY APRON. SEE DETAIL 270,
SHEET C39.
- 2 RELOCATE EXISTING LAMP POST AS
SHOWN ON PLAN.
- 3 RAISE EXISTING WATER METER TO
MATCH NEW SIDEWALK ELEVATION
- 4 EXISTING MAILBOXES TO BE RELOCATED
AS SHOWN ON PLAN.
- 5 EXISTING CURB TO BE REMOVED.
- 6 STA: 17+16, 28' RT. D/W C/L
CONSTRUCT 32' WIDE CONCRETE
RESIDENTIAL DRIVEWAY. 5' DEEP
DRIVEWAY APRON.
- 7 NEW CURB AND SIDEWALK
CONSTRUCTION. SEE DETAIL 250, SHEET
C44.
- 8 EXISTING WATER METER TO BE
RELOCATED. SEE DETAIL ON SHEET C43.
- 9 EXISTING BOOK STATION TO BE
RELOCATED.
- 10 SAWCUT 2' MIN. INTO EXISTING
PAVEMENT AND MATCH EXISTING GRADE.
- 11 EXISTING ARBORVITAE HEDGE TO BE
REMOVED.
- 12 STA: 17+98, 25' RT.
END CURB AND SIDEWALK
CONSTRUCTION.
- 13 EXISTING TREE TO BE PRESERVED.
- 14 REMOVE EXISTING PAVEMENT, CURBS,
STRUCTURES AND LANDSCAPING AS
REQUIRED. RETURN ALL LANDSCAPE
ITEMS TO PROPERTY OWNER AS
NEEDED.
- 15 NEW AC PAVEMENT AND SUBBASE. SEE
DETAIL 160, SHEET C40.
- 16 EXISTING SIGN TO BE REMOVED AND
RELOCATED PER PLAN.
- 17 EDGE OF 2" DEPTH GRIND AND INLAY.
MATCH EXISTING PAVEMENT.
- 18 STA: 16+55, INSTALL MIDBLOCK ADA
RAMP. SEE DETAIL 2, SHEET C42.



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ORIGINAL DRAWING.
ADJUST SCALE
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ACCORDINGLY.

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CITY OF HAPPY VALLEY
2020 SUPERBLOCK PEDESTRIAN IMPROVEMENTS - PHASE II
KING ROAD, 132ND AVENUE AND RIDGECREST ROAD
SE KING RD
STREET IMPROVEMENT PLAN
STA 16+00 TO 18+00
CLACKAMAS COUNTY, OREGON

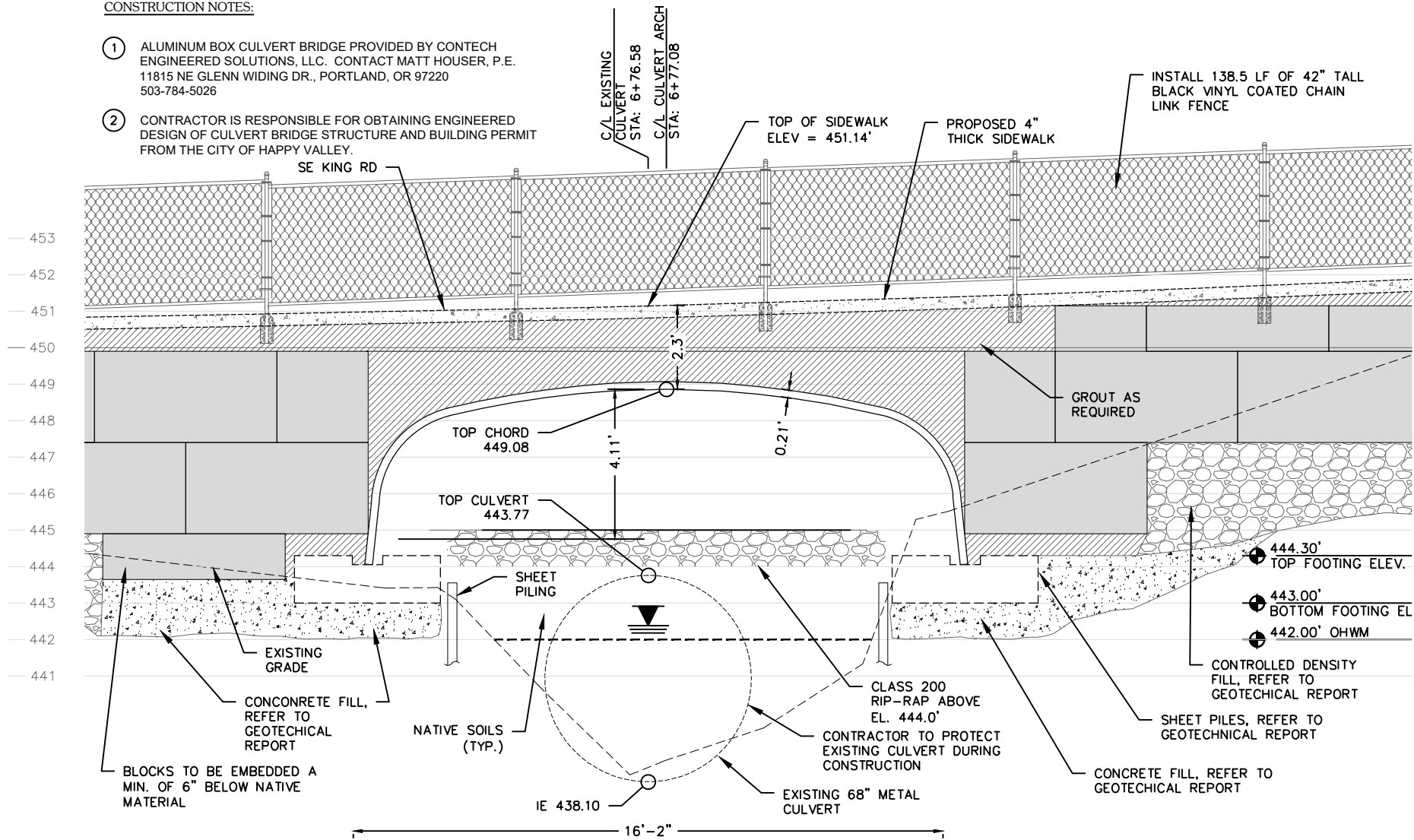
DATE	SEPT 2020
P.N.	1729
D/B	EPH
D/S	JVB/JHH
CAD	729-C10-C12

C12
OF
49

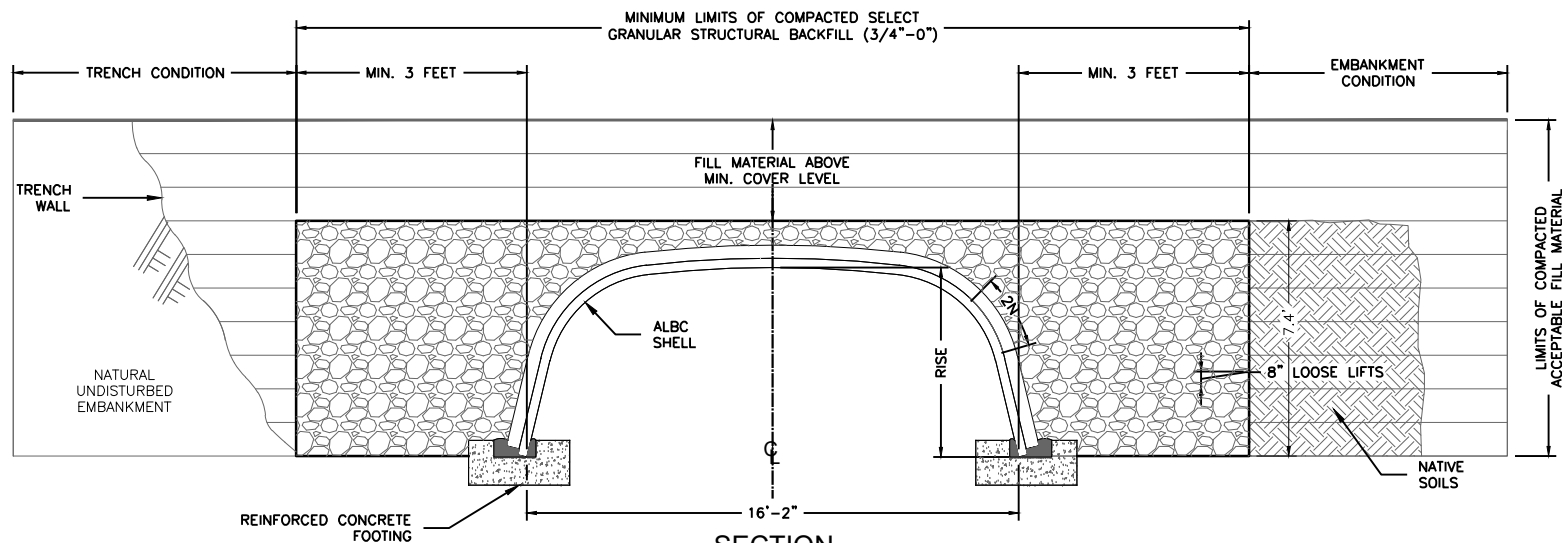
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CONSTRUCTION NOTES:

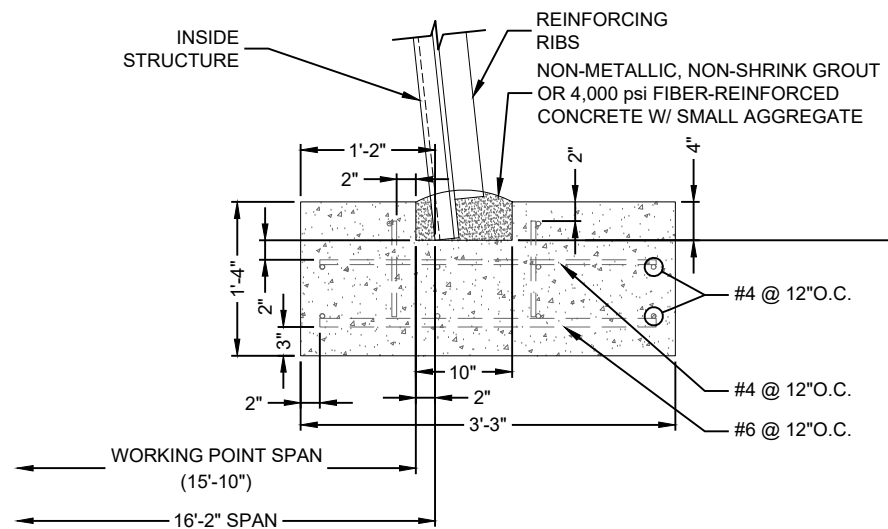
- ALUMINUM BOX CULVERT BRIDGE PROVIDED BY CONTECH ENGINEERED SOLUTIONS, LLC. CONTACT MATT HOUSER, P.E. 11815 NE GLENN WIDING DR., PORTLAND, OR 97220 503-784-5026
- CONTRACTOR IS RESPONSIBLE FOR OBTAINING ENGINEERED DESIGN OF CULVERT BRIDGE STRUCTURE AND BUILDING PERMIT FROM THE CITY OF HAPPY VALLEY.



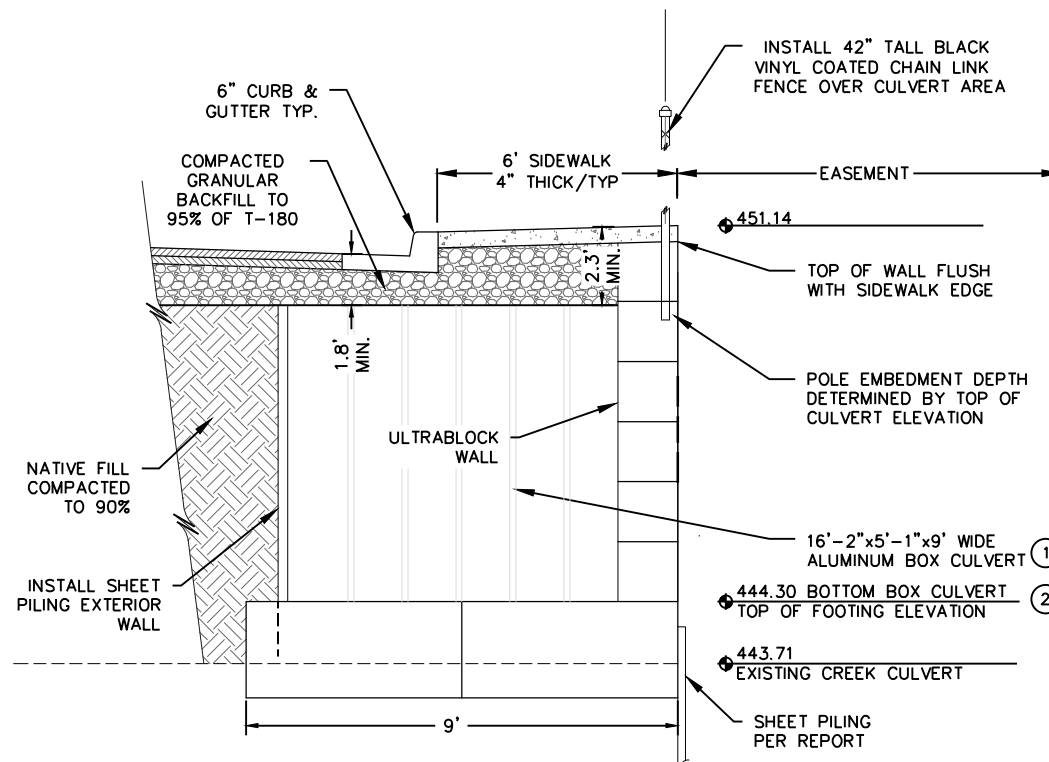
1 CREEK CROSSING - ALUMINUM BOX CULVERT DETAIL
SCALE: 1" = 2'
VERT: 1" = 2'



1 BRIDGE STRUCTURAL BACKFILL DETAIL
N.T.S.



2 BOX CULVERT FOOTING CROSS SECTION
N.T.S.

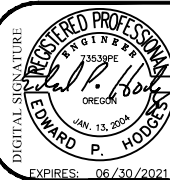


3 ALUMINUM BOX CULVERT DETAIL
STA: 5+62 TO STA: 7+04.5
SCALE: 1" = 2'



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REVISIONS



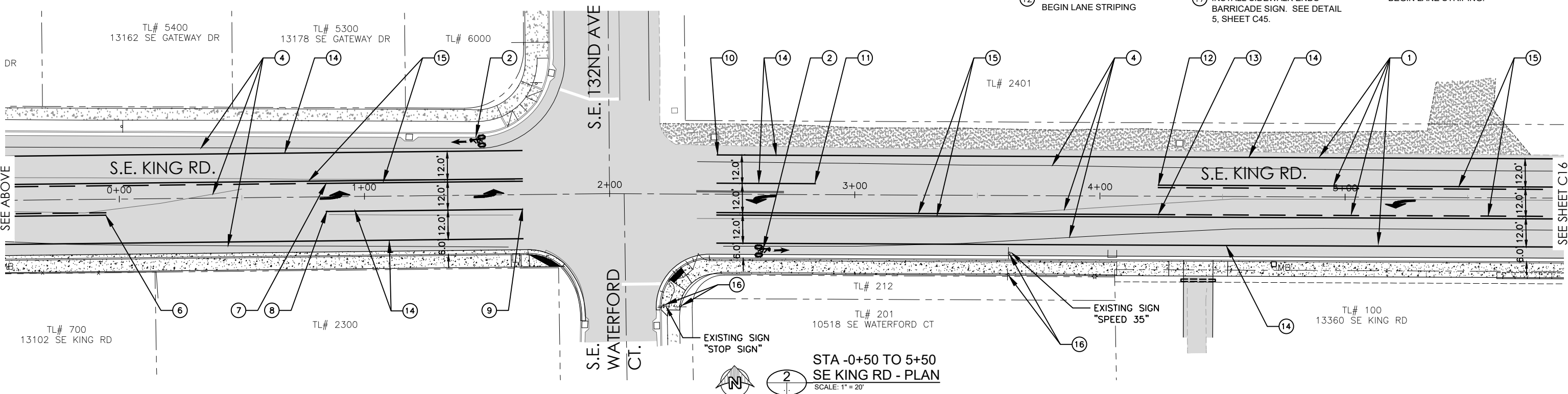
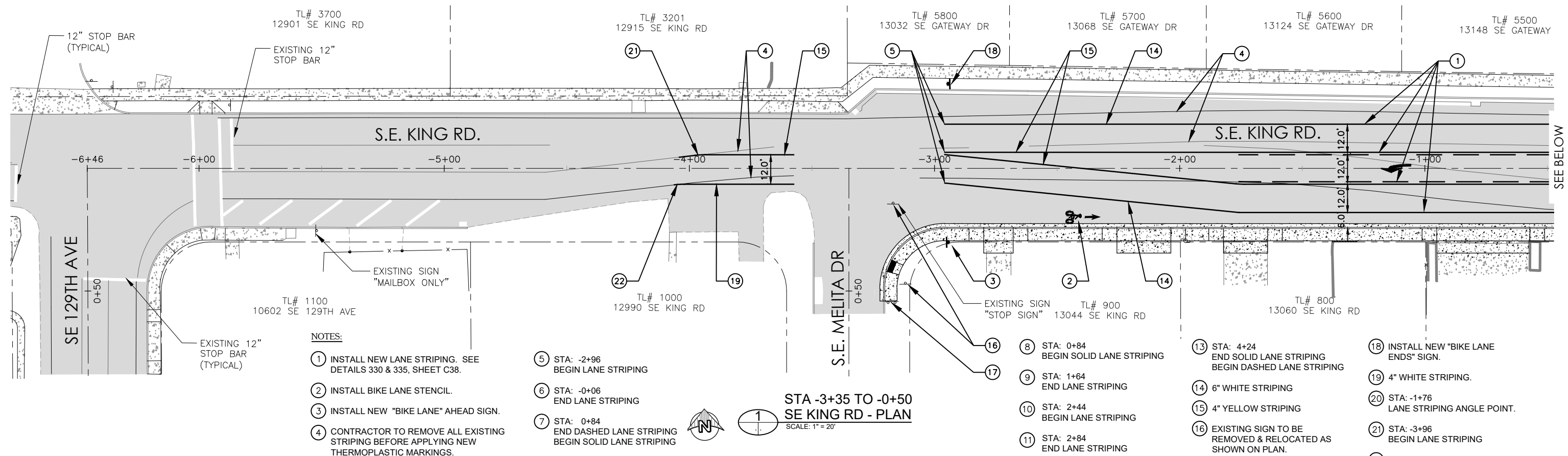
CURRAN-McLEOD, INC.
CONSULTING ENGINEERS
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PORTLAND, OREGON 97223
PHONE (503) 684-3478

CITY OF HAPPY VALLEY
2020 SUPERBLOCK PEDESTRIAN IMPROVEMENTS - PHASE II
KING ROAD, 132ND AVENUE AND RIDGECREST ROAD
MT. SCOTT CREEK CROSSING
BOX CULVERT DETAIL
CLACKAMAS COUNTY, OREGON

DATE SEPT 2020
P/N 1729
D/B EPH
D/S JHH/JVB
CITY 1729-C13-C14

C14
OF
49

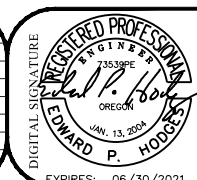
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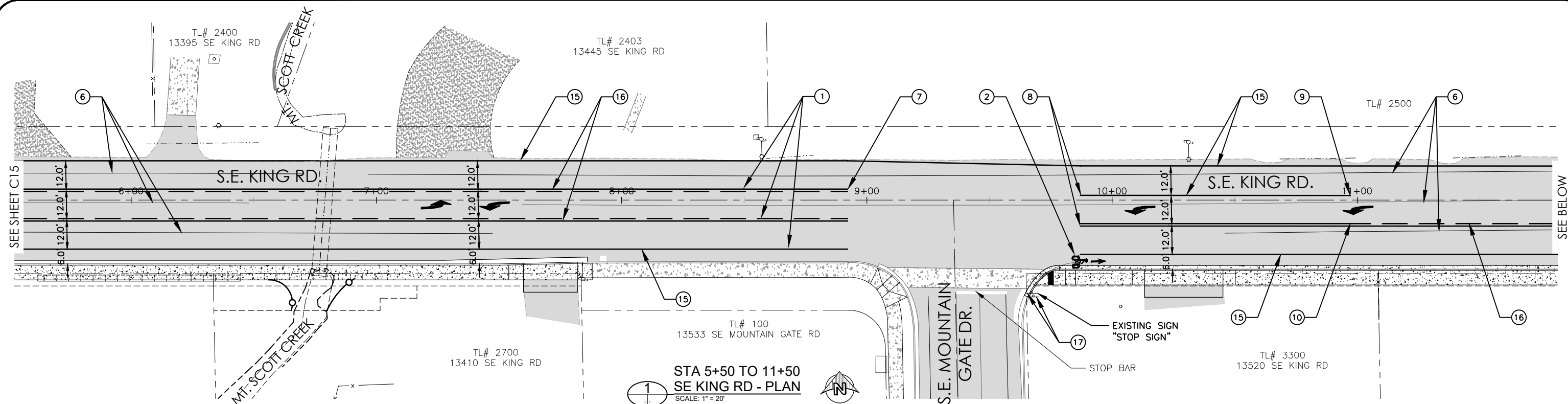
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CONSULTING ENGINEERS
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CITY OF HAPPY VALLEY
2020 SUPERBLOCK PEDESTRIAN IMPROVEMENTS - PHASE II
KING ROAD, 132ND AVENUE AND RIDGECREST ROAD
SE KING RD
STRIPING & SIGNAGE PLAN
STA -3+35 TO 5+50
CLACKAMAS COUNTY, OREGON

DATE	SEPT 2020
P.N.	1729
D/B	EPH
D/S	JVB/JHH
CD	729-C15-C16

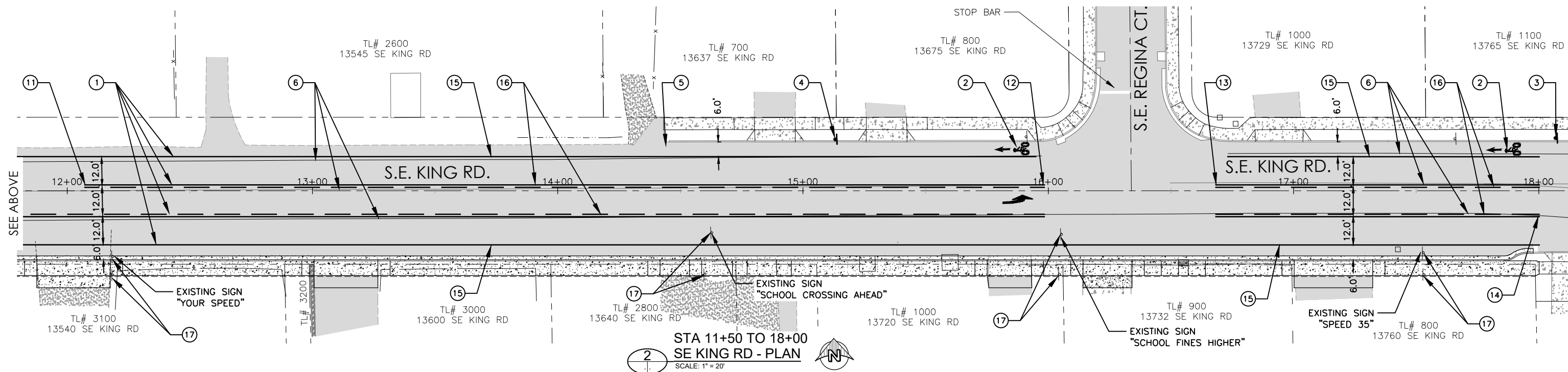
C15
OF
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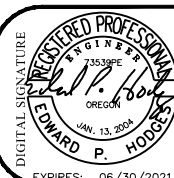
NOTES:

- | | | | | | |
|--|---|------------------------------------|---|-------------------------------------|---|
| ① INSTALL NEW LANE STRIPING. SEE DETAILS 333 & 335 ON SHEET C38. | ④ INSTALL "BIKE LANE ENDS" SIGN. | ⑦ STA: 8+92
END LANE STRIPING | ⑩ STA: 10+97
END SOLID LANE STRIPING
BEGIN DASHED LANE STRIPING | ⑬ STA: 16+68
BEGIN LANE STRIPING | ⑮ 6" WHITE STRIPING |
| ② INSTALL BIKE LANE STENCIL. | ⑤ END OF BIKE LANE. | ⑧ STA: 9+87
BEGIN LANE STRIPING | ⑪ STA: 12+07
BEGIN LANE STRIPING | ⑭ STA: 18+00
END LANE STRIPING | ⑯ 4" YELLOW STRIPING |
| ③ INSTALL NEW "BIKE LANE" AHEAD SIGN. | ⑥ CONTRACTOR TO REMOVE EXISTING STRIPING BEFORE APPLYING NEW THERMOPLASTIC MARKING. | ⑨ STA: 10+97
END LANE STRIPING | ⑫ STA: 15+98
END LANE STRIPING | | ⑰ EXISTING SIGN TO BE REMOVED & RELOCATED AS SHOWN ON PLAN. |



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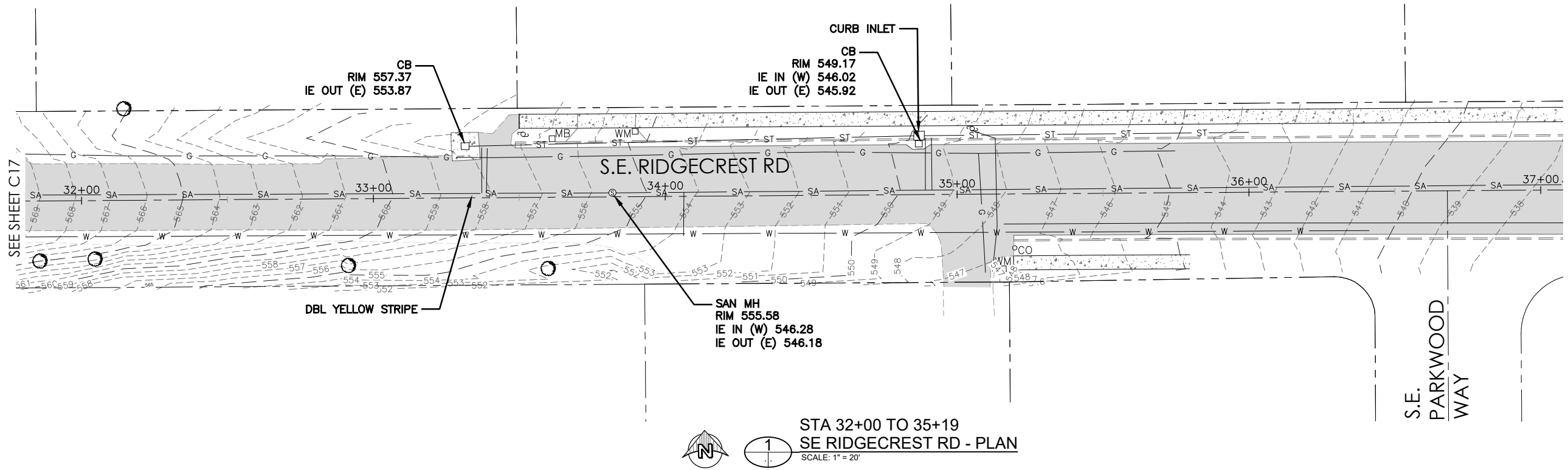
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CITY OF HAPPY VALLEY
2020 SUPERBLOCK PEDESTRIAN IMPROVEMENTS - PHASE II
KING ROAD, 132ND AVENUE AND RIDGECREST ROAD
SE KING RD
STRIPING & SIGNAGE PLAN
STA 5+50 TO 18+00
CLACKAMAS COUNTY, OREGON

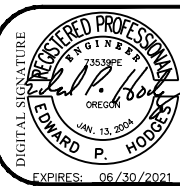
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CD	729-C15-C16



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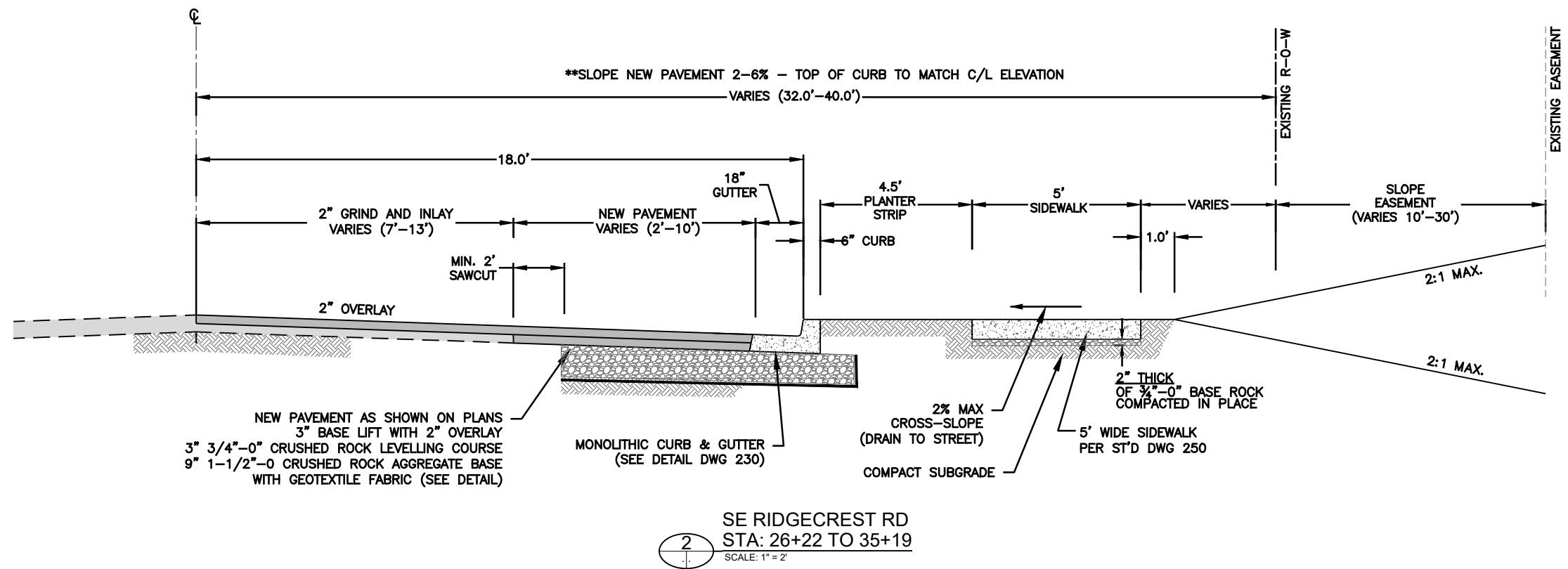
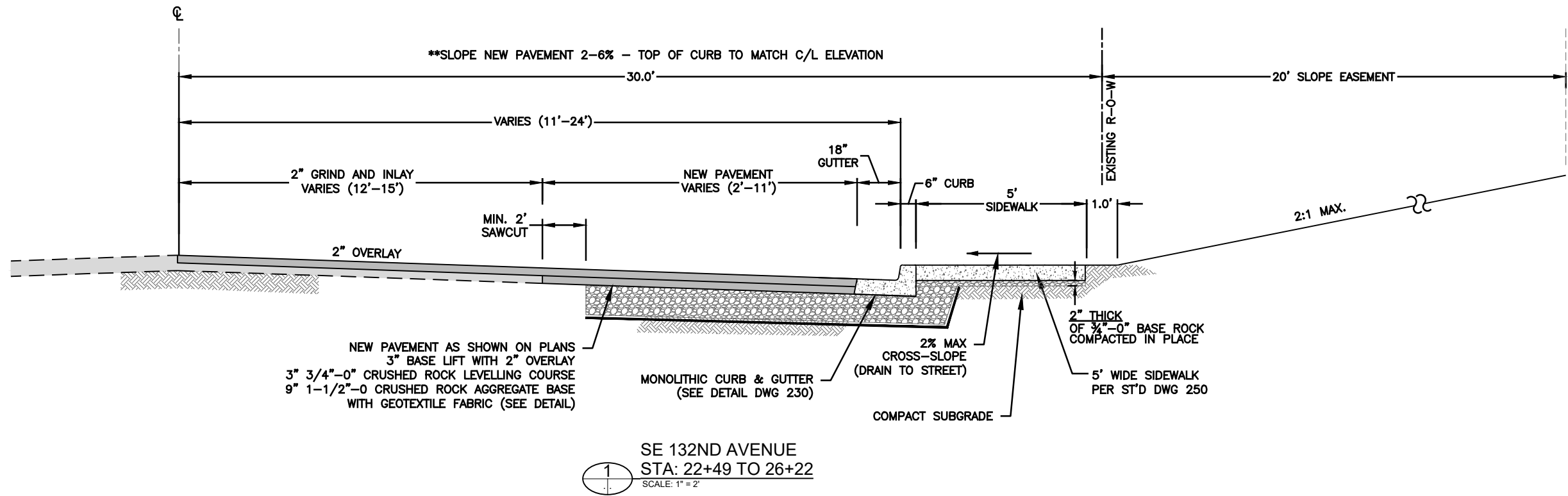
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CITY OF HAPPY VALLEY
2020 SUPERBLOCK PEDESTRIAN IMPROVEMENTS - PHASE II
KING ROAD, 132ND AVENUE AND RIDGECREST ROAD
SE RIDGECREST RD
EXISTING CONDITIONS PLAN
STA 32+00 TO 35+19
CLACKAMAS COUNTY, OREGON

DATE	SEPT 2020
P.N.	1729
D/B	EPH
D/S	JVB/JHH
CD	729-C17-C18

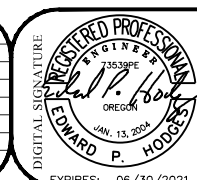
C18
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49



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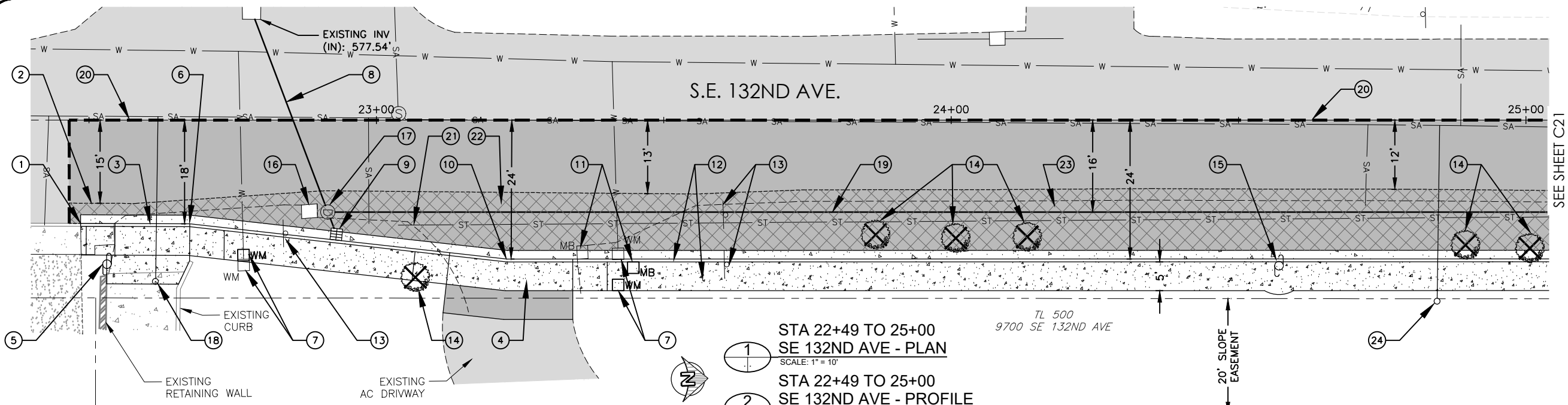


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CITY OF HAPPY VALLEY
2020 SUPERBLOCK PEDESTRIAN IMPROVEMENTS - PHASE II
KING ROAD, 132ND AVENUE AND RIDGECREST ROAD
STREET CROSS SECTIONS
SE 132ND AVE & SE RIDGECREST RD
CLACKAMAS COUNTY, OREGON

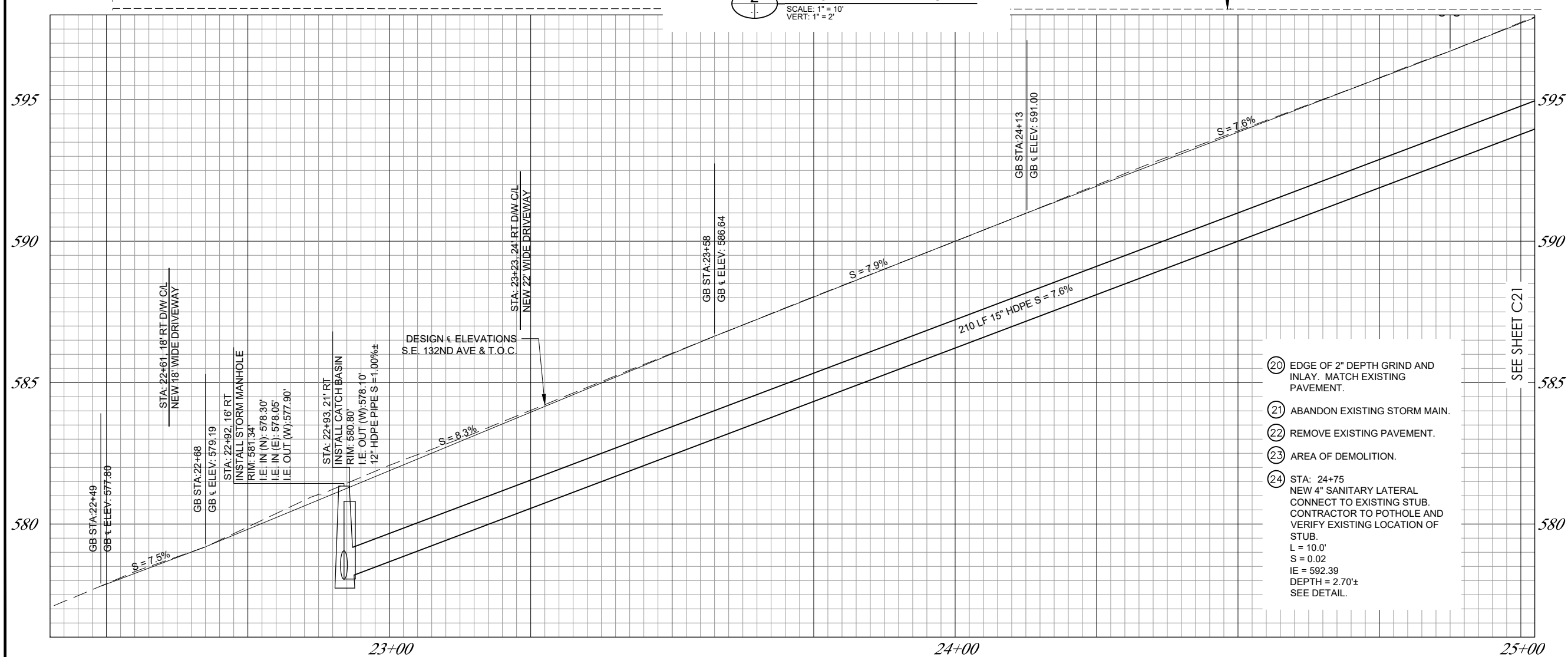
DATE	SEPT 2020
E/N	1729
D/B	EPH
D/S	JHH
CAD	1729-C19

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1 STA 22+49 TO 25+00
SE 132ND AVE - PLAN
SCALE: 1" = 10'

2 STA 22+49 TO 25+00
SE 132ND AVE - PROFILE
SCALE: 1" = 10'
VERT: 1" = 2'



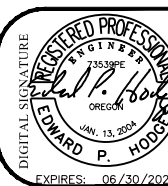
NOTE: ADJUST VALVE BOXES (WATER & GAS) AS NEEDED.



BAR IS ONE INCH ON
ORIGINAL DRAWING.
ADJUST SCALE
AS SHOWN
ACCORDINGLY.

REV.	DESCRIPTION	REVISED BY	DATE

REVISIONS



CURRAN-MCLEOD, INC.
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PORTLAND, OREGON 97223
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CITY OF HAPPY VALLEY
2020 SUPERBLOCK PEDESTRIAN IMPROVEMENTS - PHASE II
KING ROAD, 132ND AVENUE AND RIDGECREST ROAD
SE 132ND AVE
STREET IMPROVEMENT PLAN
STA 22+49 TO 25+50
CLACKAMAS COUNTY, OREGON

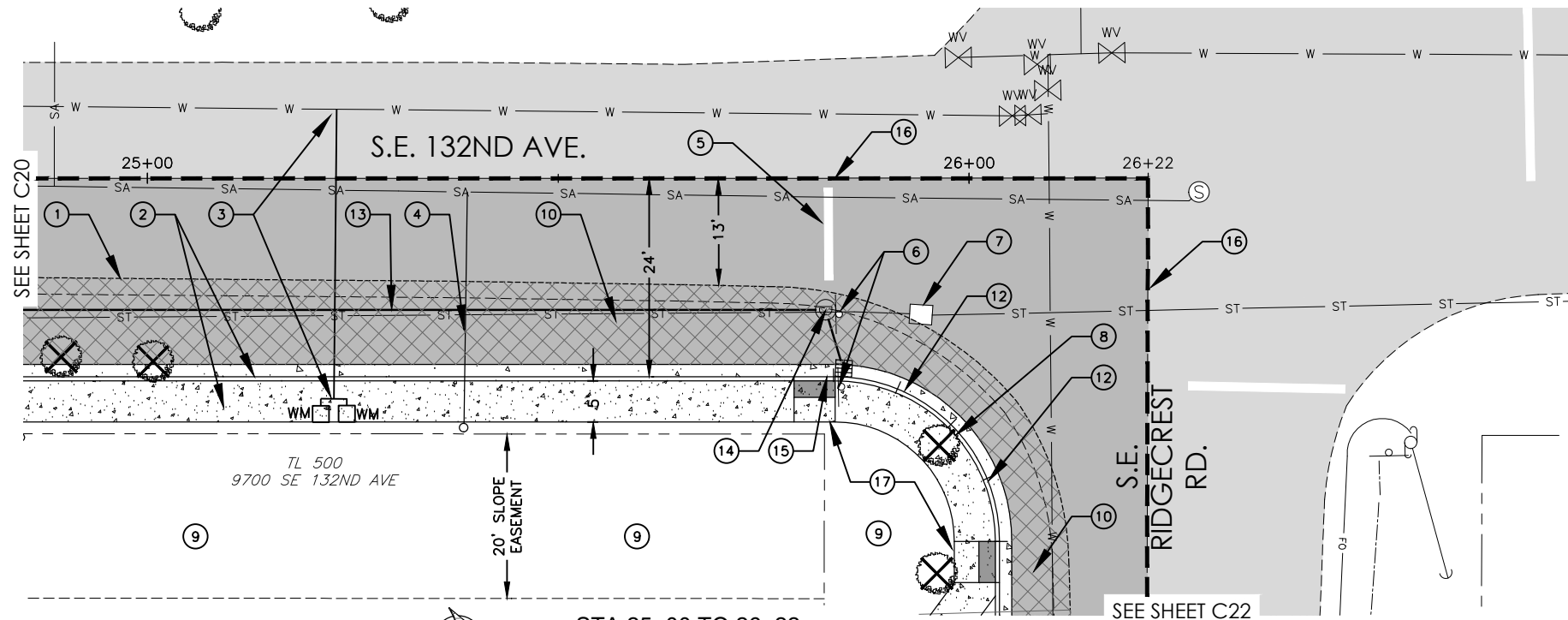
DATE	SEPT 2020
P.N.	1729
D/B	EPH
D/S	JVB/JHH
CAD	729-C20-C21

C20
OF
49

CONSTRUCTION NOTES:

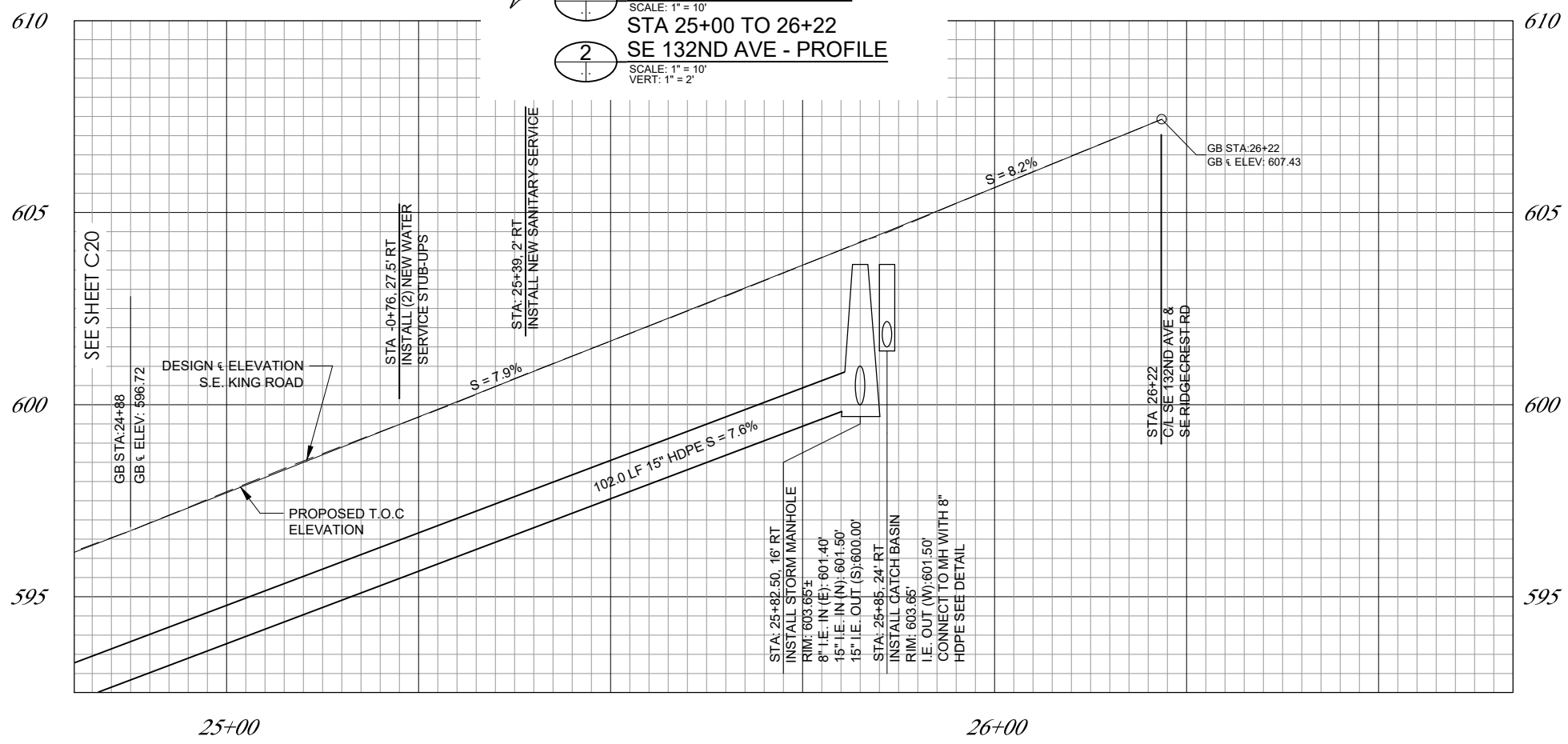
- 1 STA: 22+49, 18' RT.
BEGIN NEW CURB AND SIDEWALK
CONSTRUCTION. MATCH EXISTING
TOP OF CURB. SEE DETAIL 250,
SHEET C44.
- 2 SAWCUT 2' MIN. INTO EXISTING
PAVEMENT & MATCH.
- 3 STA: 22+61, 18' RT. D/W C/L
CONSTRUCT 18' WIDE CONCRETE
RESIDENTIAL DRIVEWAY. MIN. 5'
DEEP BEHIND DRIVEWAY APRON.
- 4 STA: 23+24, 24' RT. D/W C/L
CONSTRUCT 22' CONCRETE
RESIDENTIAL DRIVEWAY. MATCH
EXISTING PAVEMENT. MIN. 5' DEEP
BEHIND DRIVEWAY APRON. SEE
DETAIL 270, SHEET C39.
- 5 PROTECT EXIST POWER POLE.
- 6 STA: 22+67.5, 18' RT.
CURB ANGLE POINT.
- 7 EXISTING WATER METER TO BE
RELOCATED TO BACK OF SIDEWALK.
SEE DETAIL ON SHEET C43.
- 8 15" HDPE STORM DRAIN LENGTH 45 LF.
- 9 STA: 22+93, 21' RT.
INSTALL NEW TYPE GB-2 CATCH
BASIN. SEE DETAILS ON SHEET C41.
RIM: 580.70
IE OUT (W) 578.10
12" HDPE PIPE S=1.00%±
- 10 STA: 23+22.8, 24' RT.
CURB ANGLE POINT.
- 11 EXISTING BRICK MAILBOX TO BE
REMOVED AND RELOCATED BEHIND
CURB.
- 12 NEW CURB & GUTTER AND SIDEWALK
CONSTRUCTION.
- 13 EXISTING SIGN TO BE RELOCATED, AS
SHOWN ON PLAN.
- 14 EXISTING TREE TO BE REMOVED
(TYPICAL).
- 15 CONSTRUCT SIDEWALK AROUND
EXISTING POWER POLE. MAINTAIN 48"
MINIMUM CLEAR PATH.
- 16 EXISTING CATCH BASIN TO BE
REMOVED. CONTRACTOR TO
ABANDON 6" STORM MAIN.
- 17 NEW STORM SEWER MH
RIM: 581.34
IE IN (N): 578.30
IE IN (E): 578.05
IE OUT (W): 577.90
SEE DETAIL ON SHEET C41.
- 18 STA: 22+62
INSTALL NEW SANITARY LATERAL.
CONNECT TO EXISTING SANITARY
STUB. CONTRACTOR TO POTHOLE
AND VERIFY LOCATION AND DEPTH.
L = 9.04 LF
S = 0.1500
IE = 571.26
DEPTH = 5.0'±
SEE DETAIL ON SHEET C41.
- 19 NEW 15" HDPE STORM SEWER MAIN

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1
STA 25+00 TO 26+22
SE 132ND AVE - PLAN
SCALE: 1" = 10'

2
STA 25+00 TO 26+22
SE 132ND AVE - PROFILE
SCALE: 1" = 10'
VERT: 1" = 2'



CONSTRUCTION NOTES:

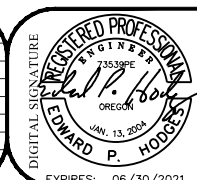
- 1 SAWCUT 2' MIN. INTO EXISTING PAVEMENT AND MATCH EXISTING.
- 2 NEW CURB & GUTTER AND SIDEWALK CONSTRUCTION.
- 3 CONNECT TO EXISTING 8" WATER LINE WITH 8" SERVICE SADDLE. INSTALL (2) NEW WATER SERVICE STUB-UPS. SEE DETAIL ON SHEET C43.
- 4 STA: 25+39
INSTALL NEW 4" SANITARY LATERAL. WES TO CONNECT TO EXISTING SANITARY MAIN. CONTRACTOR TO COORDINATE WITH WES WHEN INSTALLING LATERAL. SEE DETAIL ON SHEET C41.
L = 40.0'
S = 0.1800
IE = 593.52'
DEPTH = 5.8'
- 5 RE-STRIPE EXISTING STOP BAR AS SHOWN ON STRIPING PLAN.
- 6 EXISTING SIGN TO BE RELOCATED, AS SHOWN ON SIGNAGE PLAN.
- 7 REMOVE EXISTING CATCH BASIN, CONNECT TO EXISTING 15" STORM MAIN WITH A 15" COUPLER.
- 8 EXISTING TREE TO BE REMOVED (TYPICAL).
- 9 SEE SITE GRADING PLAN.
- 10 NEW AC PAVEMENT AND SUBBASE. SEE DETAIL 160, SHEET C40.
- 11 NOT USED.
- 12 NEW ADA RAMPS AND TRUNCATED DOMES. SEE DETAIL 160, SHEET C40.
- 13 NEW 15" HDPE STORM MAIN. SEE DETAIL 205, SHEET C40.
- 14 STA: 25+82.50, 16' RT
INSTALL STORM MANHOLE. SEE DETAIL ON SHEET C43.
- 15 STA: 25+85, 24' RT
INSTALL CATCH BASIN
CONNECT TO MH W/5' 8" HDPE
SEE DETAIL ON SHEET C43.
- 16 EDGE OF 2" DEPTH GRIND AND INLAY. MATCH EXISTING PAVEMENT.
- 17 NEW CURB RAMPS. SEE DETAIL 245, SHEET C44.



BAR IS ONE INCH ON ORIGINAL DRAWING.
ADJUST SCALE AS SHOWN ACCORDINGLY.

REV.	DESCRIPTION	REVISED BY	DATE

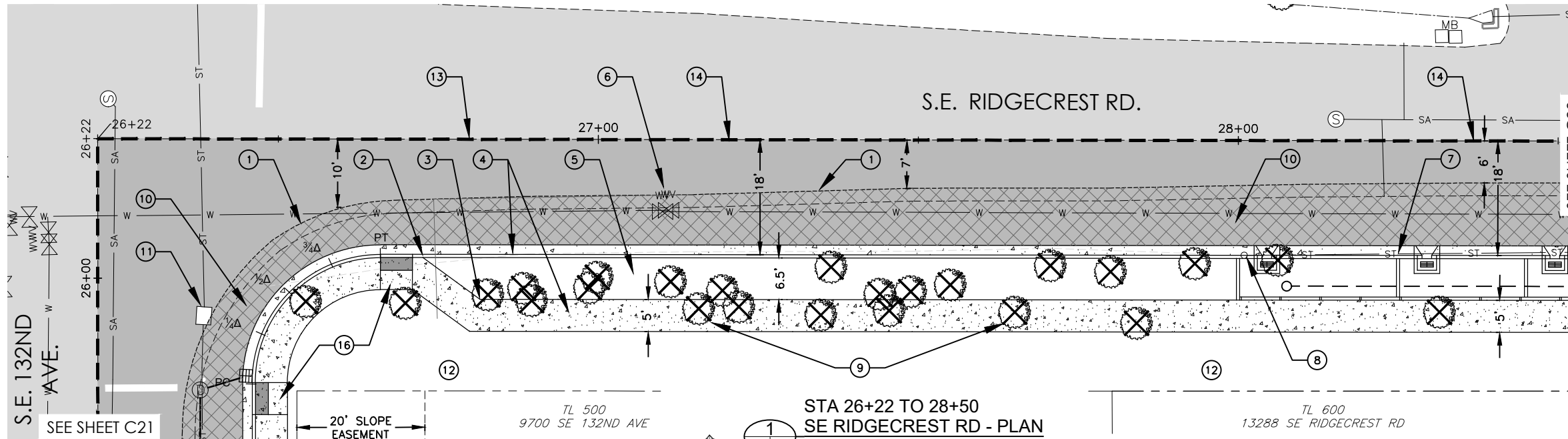
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CITY OF HAPPY VALLEY
2020 SUPERBLOCK PEDESTRIAN IMPROVEMENTS - PHASE II
KING ROAD, 132ND AVENUE AND RIDGECREST ROAD
SE 132ND AVE
STREET IMPROVEMENT PLAN
STA 25+00 TO 26+22
CLACKAMAS COUNTY, OREGON

DATE	SEPT 2020
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D/B	EPH
D/S	JVB/JHH
CAD	729-C20-C21



STA 26+22 TO 28+50
SE RIDGECREST RD - PLAN

STA 26+22 TO 28+50
SE RIDGECREST RD - PROFILE



CONSTRUCTION NOTES:

- SAWCUT 2' MIN. INTO EXISTING PAVEMENT AND MATCH EXISTING GRADE.
- STA:26+72.6, 18.5 RT. SIDEWALK ANGLE POINT.
- STA: 26+81.5, 25' RT. SIDEWALK ANGLE POINT.
- NEW CURB & GUTTER AND SIDEWALK CONSTRUCTION. SEE DETAIL 250, SHEET C44.
- NEW 4.5' PLANTER, SEE DETAIL 250, SHEET C44.
- RAISE EXISTING WATER VALVES TO MATCH NEW AC PAVEMENT.
- EXISTING STORM PIPE TO BE ABANDONED AND REMOVED.
- EXISTING PIPE TO BE REMOVED.
- EXISTING TREE TO BE REMOVED (TYPICAL).
- NEW AC PAVEMENT AND SUBBASE. SEE DETAIL 160, SHEET C40.
- PROTECT AND PRESERVE EXISTING CATCH BASIN.
- SEE GRADING PLAN.
- EDGE OF 2" DEPTH GRIND AND INLAY. MATCH EXISTING PAVEMENT. GRIND TO SAWCUT.
- NEW CENTERLINE STRIPING.
- STA: 28+00 TO 28+60 NEW 60' x 6.5' ROADSIDE STORMWATER PLANTER. SEE DETAIL, SHEET C37.
- CURB RAMPS. SEE DETAIL 245, SHEET C44.

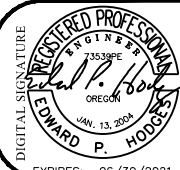
No.	RADIUS	Δ	LENGTH
1	20.00'	90°46'01"	31.0'
No.	STATION	OFFSET	T.C. EL
1	25+84 PC SE 132ND AVE	24' RT	604.40
	1/4 Δ		605.00
	1/2 Δ		605.60
	3/4 Δ		606.20
	26+67 PT SE RIDGECREST	18' RT	606.70



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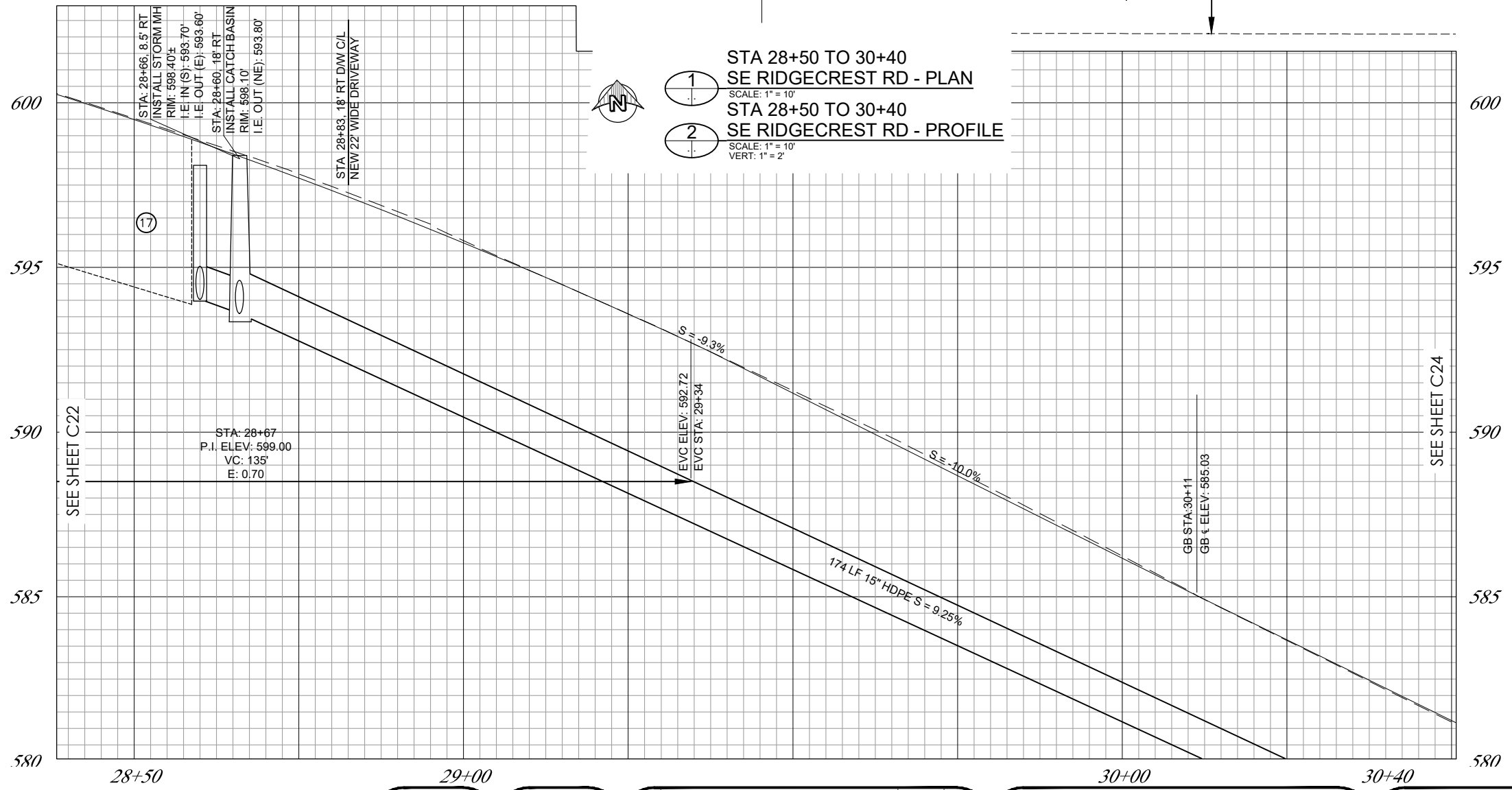
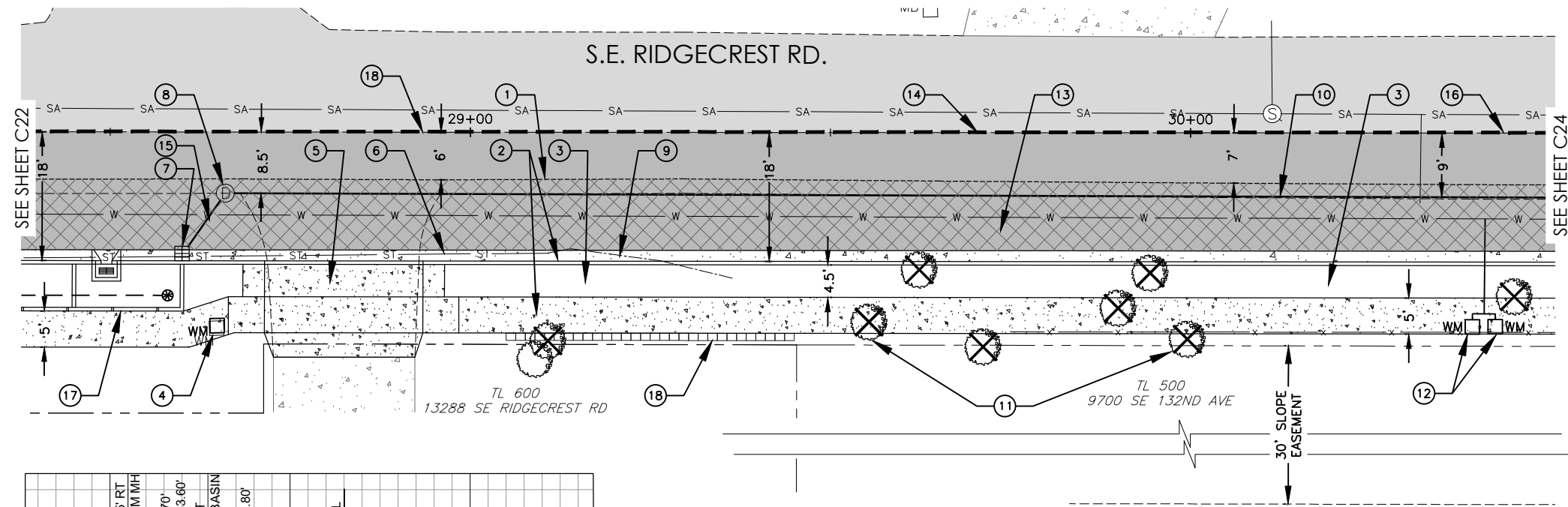


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CITY OF HAPPY VALLEY
2020 SUPERBLOCK PEDESTRIAN IMPROVEMENTS - PHASE II
KING ROAD, 132ND AVENUE AND RIDGECREST ROAD
SE RIDGECREST RD
STREET IMPROVEMENT PLAN
STA 26+22 TO 28+50
CLACKAMAS COUNTY, OREGON

DATE	SEPT 2020
P.N.	1729
D/B	EPH
D/S	JVB/JHH
CA	1729-C22-C25

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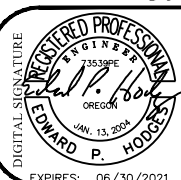


- CONSTRUCTION NOTES:
- 1 SAWCUT 2' MIN. INTO EXISTING PAVEMENT.
 - 2 NEW CURB & GUTTER AND 5' SIDEWALK CONSTRUCTION.
 - 3 NEW 4.5' PLANTER. SEE DETAIL 250, SHEET C44.
 - 4 RAISE EXISTING WATER METER TO MATCH NEW SIDEWALK ELEVATION. SEE DETAIL ON SHEET C43.
 - 5 STA: 28+83, 18' RT. CONSTRUCT 22' CONCRETE RESIDENTIAL DRIVEWAY. MATCH EXISTING CONCRETE. SEE DETAIL 270, SHEET C39.
 - 6 EXISTING CULVERT TO BE REMOVED.
 - 7 STA: 28+60, 18' RT. INSTALL NEW CATCH BASIN. SEE DETAILS ON SHEET C41.
 - 8 STA: 28+66, 8.5' RT. INSTALL NEW STORM MANHOLE. SEE DETAILS ON SHEET C41.
 - 9 EXISTING DITCH TO BE FILLED.
 - 10 174 LF NEW 15" HDPE STORM DRAIN PIPE. SEE DETAILS ON SHEET C41.
 - 11 EXISTING TREE TO BE REMOVED (TYPICAL).
 - 12 CONNECT TO EXISTING 8" WATER LINE WITH 8" SERVICE SADDLE. INSTALL (2) NEW WATER SERVICE STUB-UPS. SEE DETAIL ON SHEET C43.
 - 13 NEW AC PAVEMENT AND SUBBASE. SEE DETAIL 160 ON SHEET C40.
 - 14 EDGE OF 2" DEPTH GRIND AND INLAY TO SAWCUT.
 - 15 10 LF NEW 12" HDPE STORM DRAIN PIPE.
 - 16 NEW CENTERLINE STRIPING, SEE STRIPING PLAN.
 - 17 STA: 28+00 TO 28+60 NEW 60' x 6.5' ROADSIDE STORMWATER PLANTER. SEE DETAILS ON SHEETS C37 AND C46-49.
 - 18 MANORSTONE WALL 40' LONG, 4' HIGH. SEE DETAIL 3, SHEET C43.



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ADJUST SCALE AS SHOWN ACCORDINGLY.

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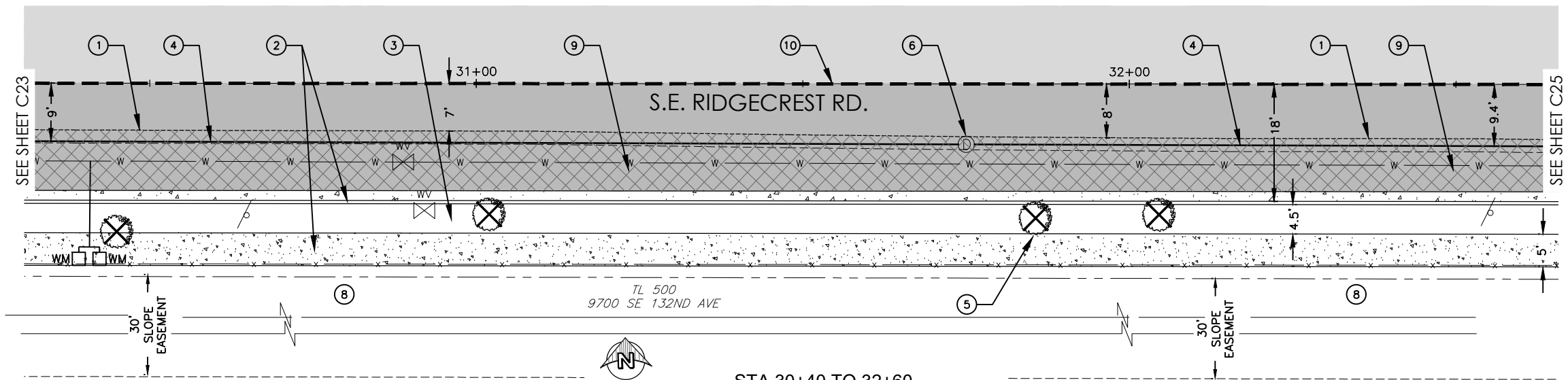


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CITY OF HAPPY VALLEY
2020 SUPERBLOCK PEDESTRIAN IMPROVEMENTS - PHASE II
KING ROAD, 132ND AVENUE AND RIDGECREST ROAD
SE RIDGECREST RD
STREET IMPROVEMENT PLAN
STA 28+50 TO 30+40
CLACKAMAS COUNTY, OREGON

DATE	SEPT 2020
P.N.	1729
D/B	EPH
D/S	JVB/JHH
CD	1729-C22-C25

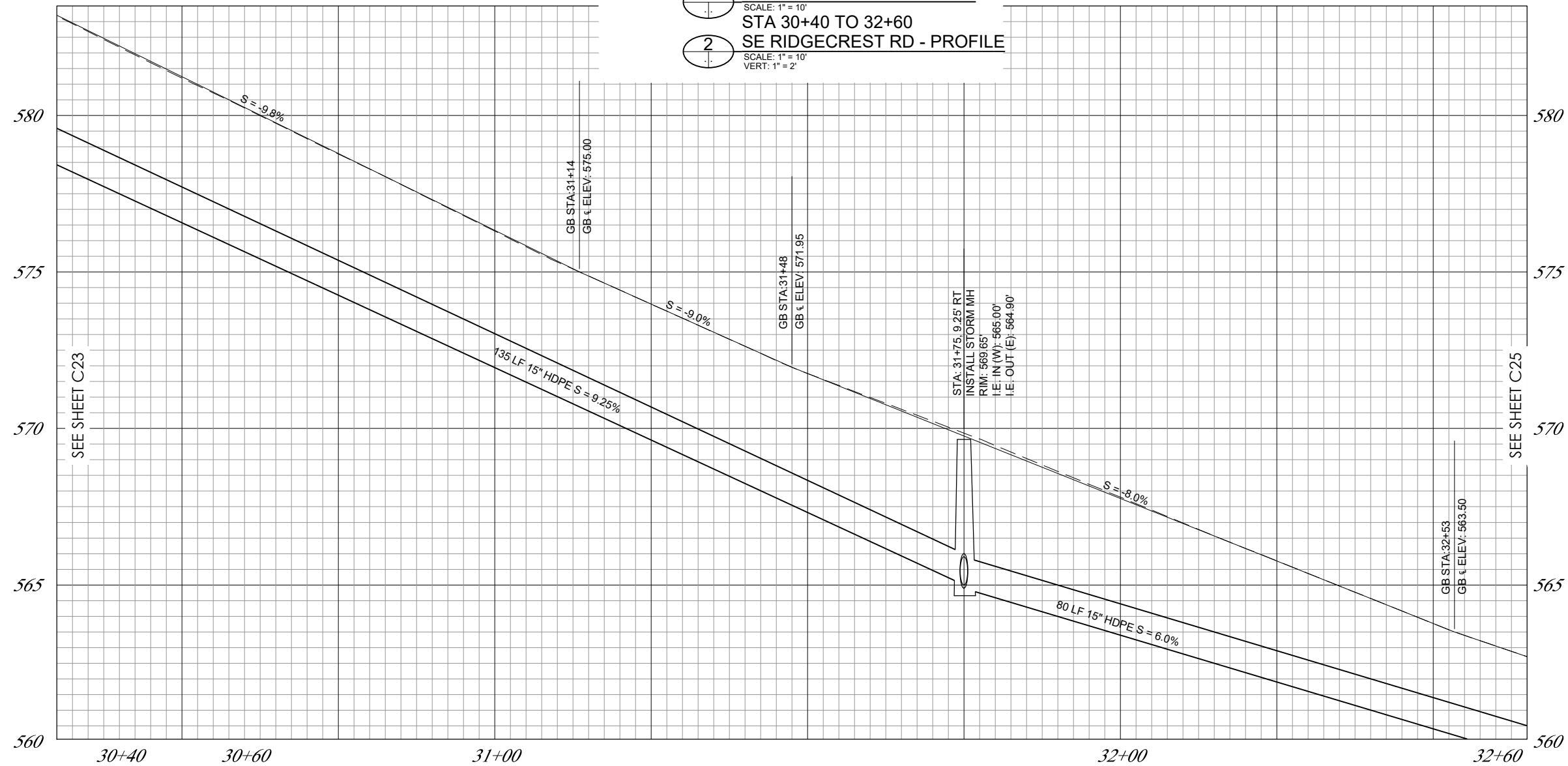
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CONSTRUCTION NOTES:

- 1 SAWCUT 2' MIN. INTO EXISTING PAVEMENT AND MATCH EXISTING GRADE.
- 2 NEW CURB & GUTTER AND 5' SIDEWALK CONSTRUCTION.
- 3 NEW 4.5' PLANTER. SEE DETAIL 250, SHEET C44.
- 4 NEW 15" HDPE STORM DRAIN PIPE.
- 5 EXISTING TREE TO BE REMOVED (TYPICAL).
- 6 STA: 31+75, 8.25' RT. INSTALL NEW STORM MANHOLE
- 7 NOT USED.
- 8 SEE GRADING PLAN.
- 9 NEW AC PAVEMENT AND SUBBASE. SEE DETAIL 160, SHEET C43.
- 10 EDGE OF 2" DEPTH GRIND AND INLAY TO SAWCUT.

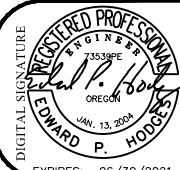
- 1
SCALE: 1" = 10'
STA 30+40 TO 32+60
SE RIDGECREST RD - PLAN
- 2
SCALE: 1" = 10'
VERT. 1" = 2'
STA 30+40 TO 32+60
SE RIDGECREST RD - PROFILE



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ADJUST SCALE AS SHOWN ACCORDINGLY.

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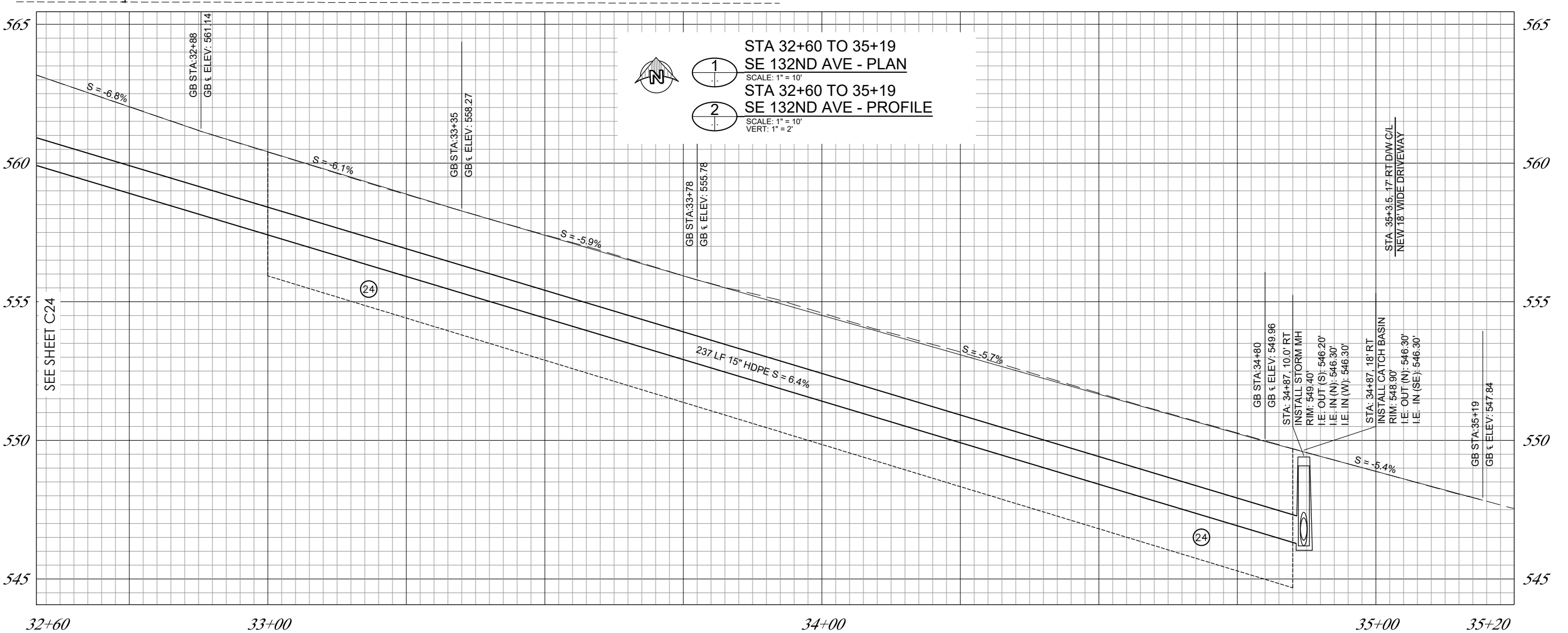
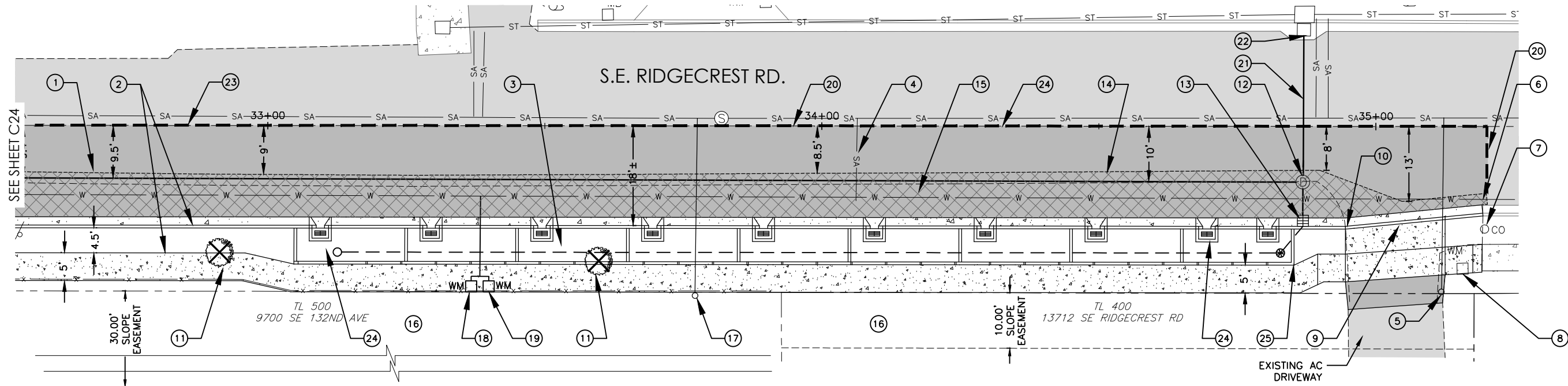


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CITY OF HAPPY VALLEY
2020 SUPERBLOCK PEDESTRIAN IMPROVEMENTS - PHASE II
KING ROAD, 132ND AVENUE AND RIDGECREST ROAD
SE RIDGECREST RD
STREET IMPROVEMENT PLAN
STA 30+40 TO 32+60
CLACKAMAS COUNTY, OREGON

DATE	SEPT 2020
P.N.	1729
D/B	EPH
D/S	JVB/JHH
CAD#	C22-C25

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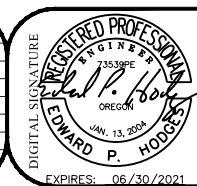
- CONSTRUCTION NOTES:
- 1 SAWCUT 2' MIN. INTO EXISTING PAVEMENT AND MATCH EXISTING GRADE.
 - 2 NEW CURB & GUTTER AND SIDEWALK CONSTRUCTION.
 - 3 NEW 4.5' PLANTER. SEE DETAIL 250, SHEET C44.
 - 4 EXISTING SANITARY LATERAL.
 - 5 STA: 35+12 INSTALL NEW 4" SANITARY SERVICE LATERAL. 32 LF. SEE DETAIL ON SHEET C41.
 - 6 STA: 35+19, 15.6' END CURB AND SIDEWALK CONSTRUCTION. MATCH EXISTING.
 - 7 EXISTING SANITARY CLEANOUT TO BE PRESERVED.
 - 8 RAISE EXISTING WATER METER TO MATCH NEW SIDEWALK ELEVATION.
 - 9 STA: 35+3.5, 17' RT. D/W C/L CONSTRUCT 18" WIDE CONCRETE RESIDENTIAL DRIVEWAY. MATCH EXISTING CONCRETE. SEE DETAIL. MIN. 5' DEEP BEHIND DRIVEWAY APRON.
 - 10 STA: 34+94.5, 18' RT. CURB ANGLE POINT
 - 11 EXISTING TREE TO BE REMOVED (TYPICAL).
 - 12 STA: 34+87, 10.0' RT INSTALL NEW 48" STORM MH
 - 13 STA: 34+87, 18' RT INSTALL NEW CATCH BASIN
 - 14 NEW 15" HDPE STORM MAIN.
 - 15 NEW AC PAVEMENT AND SUBBASE. SEE DETAIL 205, SHEET C40.
 - 16 SEE GRADING PLAN.
 - 17 STA: 33+78 NEW 4" SANITARY LATERAL. WES TO PERFORM CONNECTION TO EXISTING MAIN. CONTRACTOR TO COORDINATE WITH WES PRIOR TO LATERAL INSTALLATION. SEE DETAIL ON SHEET C41.
L = 42±
S = 0.02
IE = 545.34±
DEPTH = 6.2'
 - 18 INSTALL FIRE/RESIDENTIAL COMBINATION SERVICE STUB-UP PER SWA DETAIL ON SHEET C41.
 - 19 INSTALL 3/4" SINGLE WATER SERVICE STUB-UP PER DETAIL ON SHEET C43.
 - 20 EDGE OF 2" DEPTH GRIND AND INLAY. MATCH EXISTING PAVEMENT.
 - 21 25 LF NEW 15" HDPE STORM MAIN
 - 22 MATCH EXISTING INVERT: 545.92'
 - 23 NEW CENTERLINE STRIPING.
 - 24 STA: 33+05 TO 34+85 NEW 180' x 6.5' ROADSIDE STORMWATER PLANTER. SEE DETAIL ON SHEETS C37 AND C46-C49.
 - 25 STA: 35+85.2, 25' RT ANGLE POINT IN SIDEWALK.



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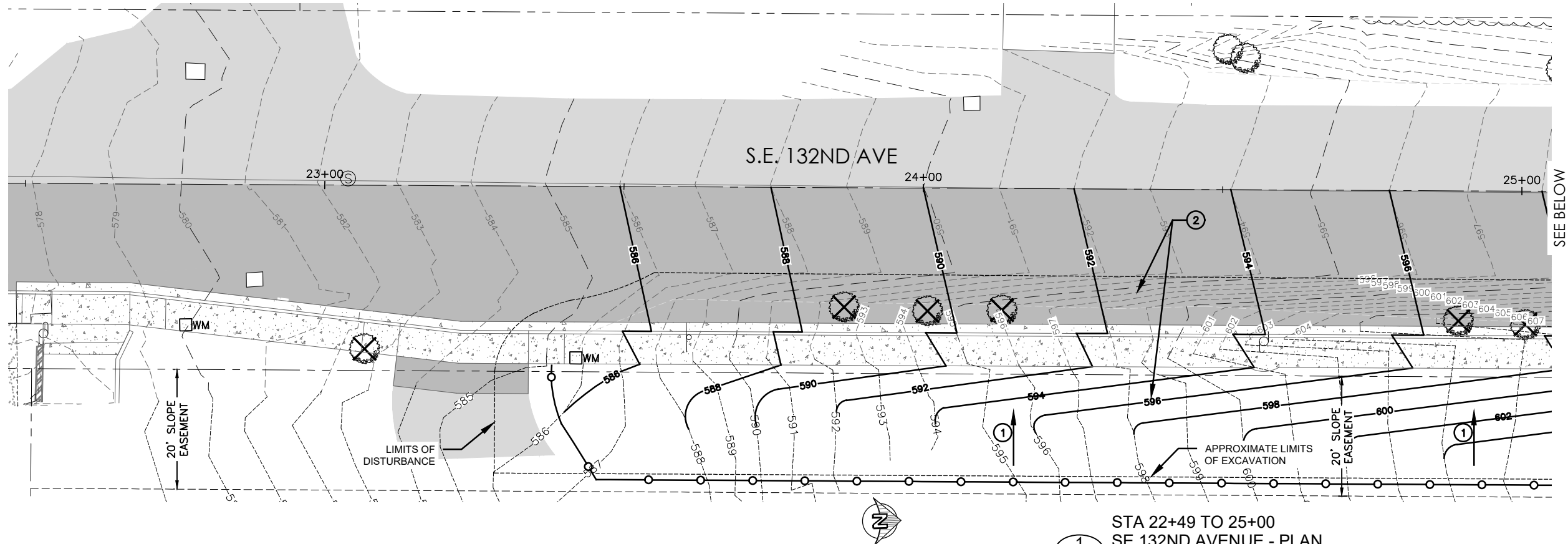
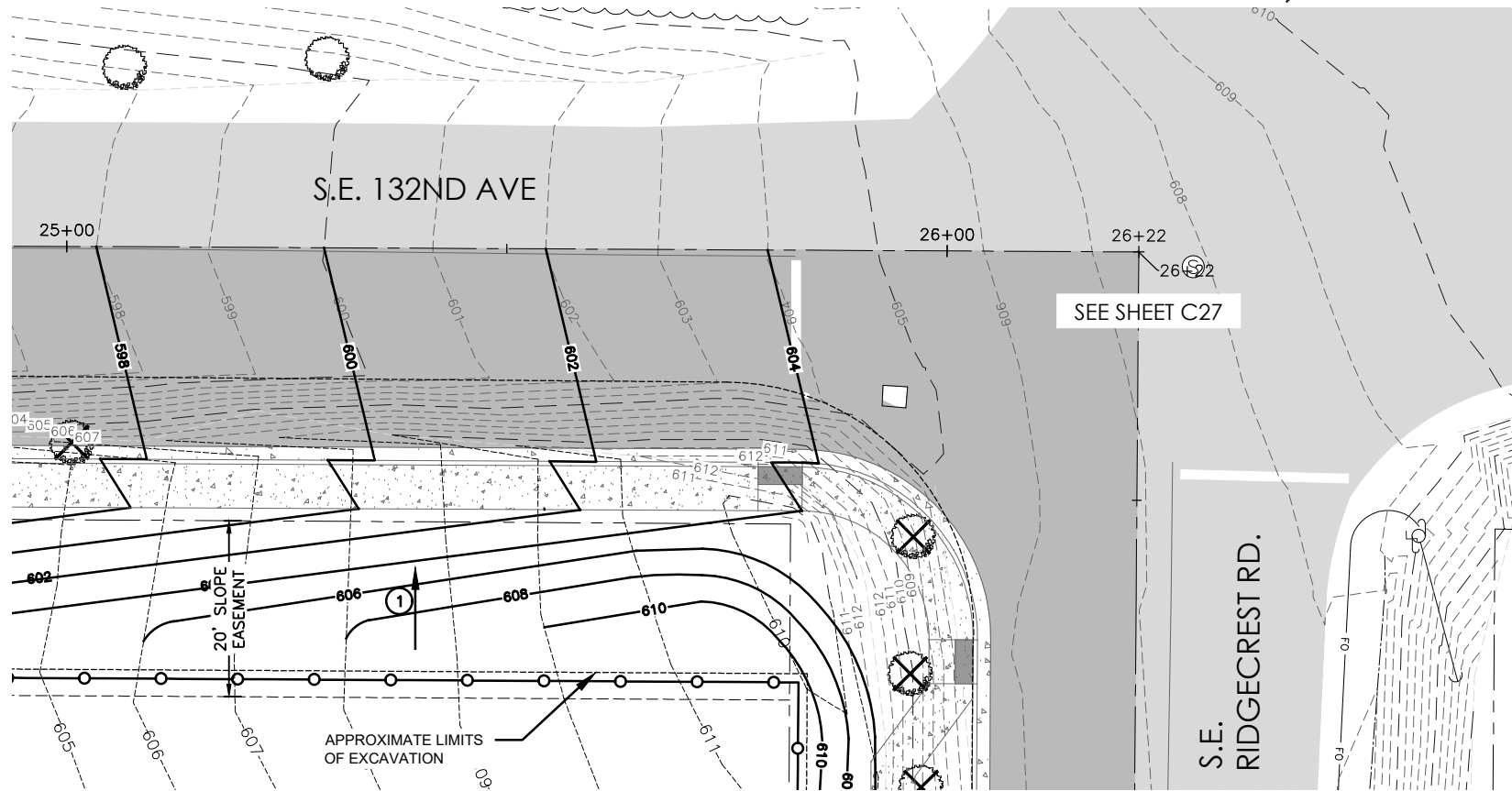
CITY OF HAPPY VALLEY
2020 SUPERBLOCK PEDESTRIAN IMPROVEMENTS - PHASE II
KING ROAD, 132ND AVENUE AND RIDGECREST ROAD
SE RIDGECREST RD
STREET IMPROVEMENT PLAN
STA 32+60 TO 35+19
CLACKAMAS COUNTY, OREGON

DATE	SEPT 2020
P.N.	1729
D/B	EPH
D/S	JVB/JHH
CAD	C22-C25

C25
OF
49

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SEE ABOVE



SEE BELOW

LEGEND:

- AREA OF DISTURBANCE
- o--- PROPOSED SEDIMENT FENCE
- 580--- EXISTING CONTOUR
- 580--- PROPOSED CONTOUR

CONSTRUCTION NOTES:

- 1 FINISH SLOPE 2:1
- 2 CLEAR AND GRUB ALL WOODY DEBRIS FROM HILLSIDE BEFORE GRADING. ALL MATERIAL TO BE REMOVED FROM SITE.

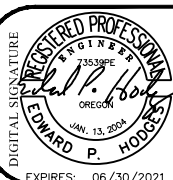
- 1 STA 22+49 TO 25+00
SE 132ND AVENUE - PLAN
SCALE: 1" = 10'
- 2 STA 25+00 TO 26+22
SE 132ND AVENUE - PLAN
SCALE: 1" = 10'



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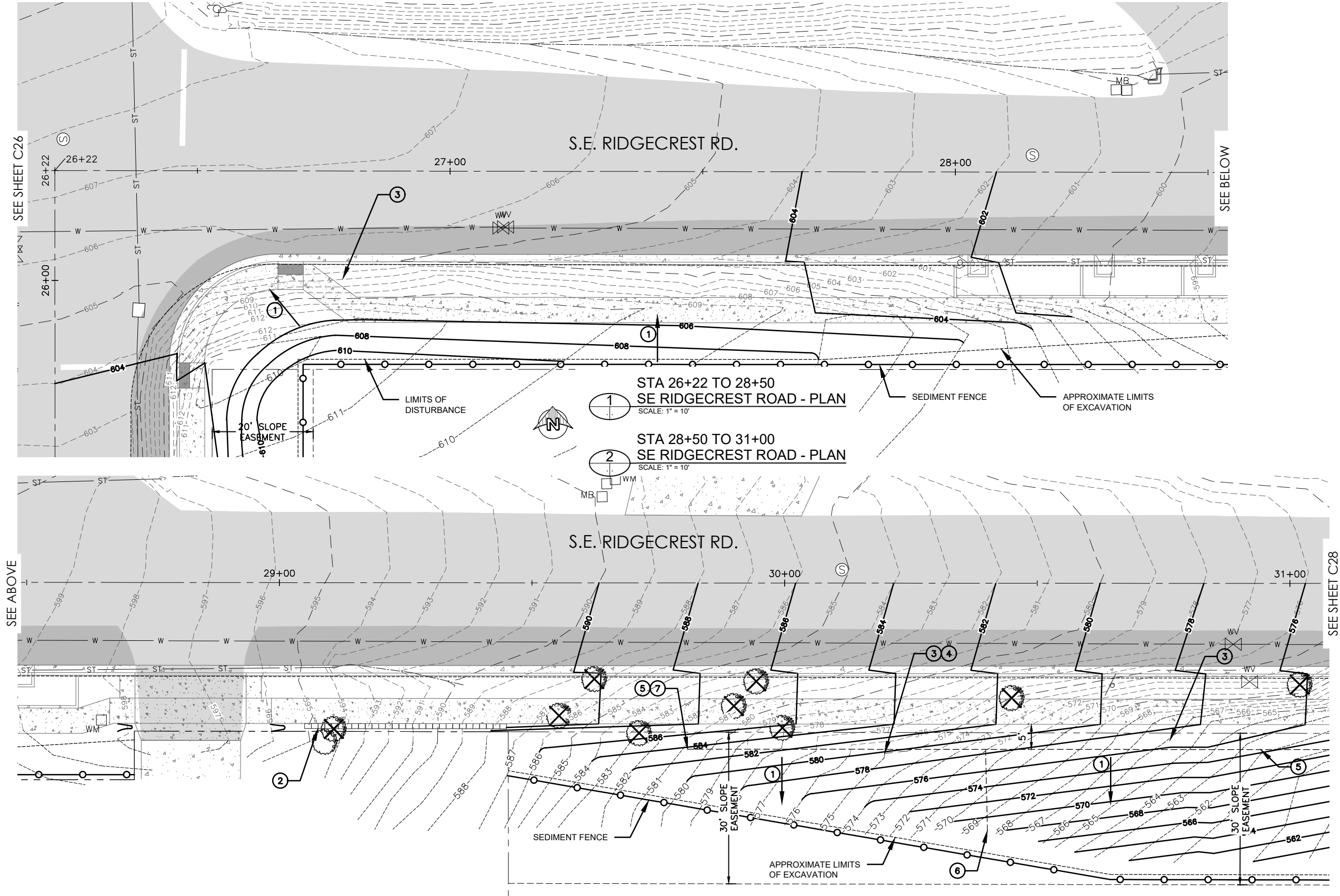
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CITY OF HAPPY VALLEY
2020 SUPERBLOCK PEDESTRIAN IMPROVEMENTS - PHASE II
KING ROAD, 132ND AVENUE AND RIDGECREST ROAD
SE 132ND AVENUE
GRADING & EROSION CONTROL PLAN
STA 22+49 TO 26+22
CLACKAMAS COUNTY, OREGON

DATE	SEPT 2020
P.N.	1729
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D/S	JVB/JHH
CD	1729-C26-C28

C26
OF
49

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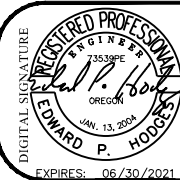
- LEGEND:**
- AREA OF DISTURBANCE
 - o--- PROPOSED SEDIMENT FENCE
 - 580--- EXISTING CONTOUR
 - 580--- PROPOSED CONTOUR

- CONSTRUCTION NOTES:**
- 1 FINISH SLOPE 2:1
 - 2 INSTALL MANORSTONE BLOCK WALL. SEE DETAIL 3, SHEET C43.
 - 3 CLEAR AND GRUB ALL WOODY DEBRIS FROM HILLSIDE BEFORE GRADING. ALL MATERIAL TO BE REMOVED FROM SITE.
 - 4 STRIP 1' OF EXISTING TOPSOIL FROM ALL FILL AREAS BEFORE STARTING BACKFILL.
 - 5 INSTALL 6" SLEEVED PERFORATED PIPE AT 2' BELOW FINISHED GRADE MIN. SLOPE 2%.
 - 6 DAYLIGHT 6" DRAIN PIPE AT FINISHED GRADE ELEVATION.
 - 7 STA: 29+80 START 6" PERFORATED PIPE, CAP END AS REQUIRED.



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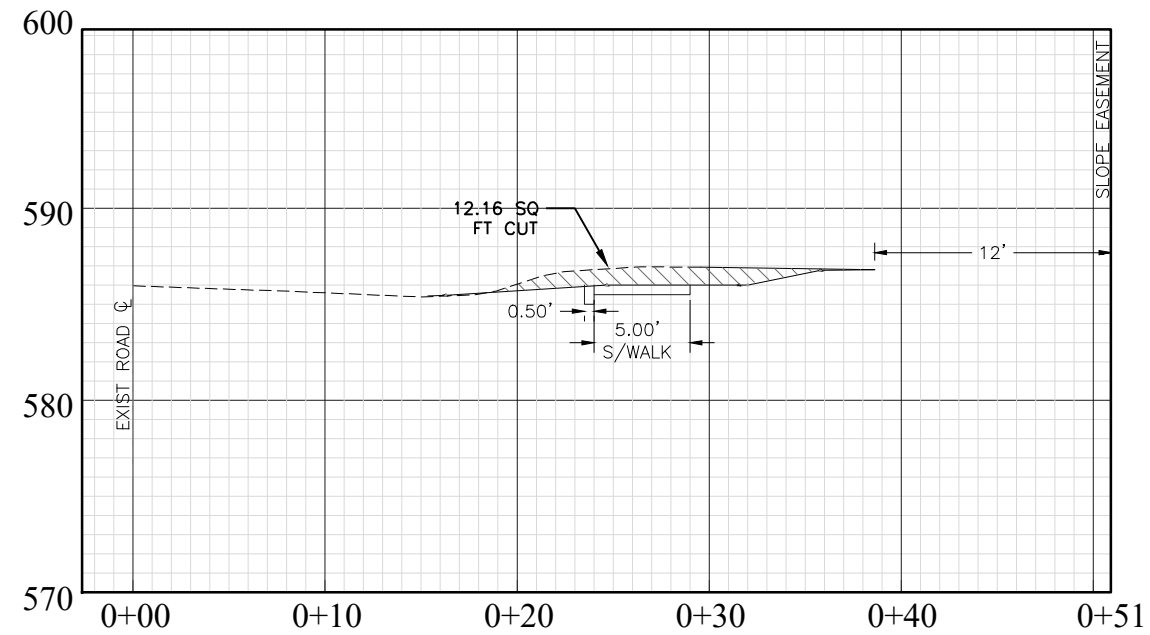
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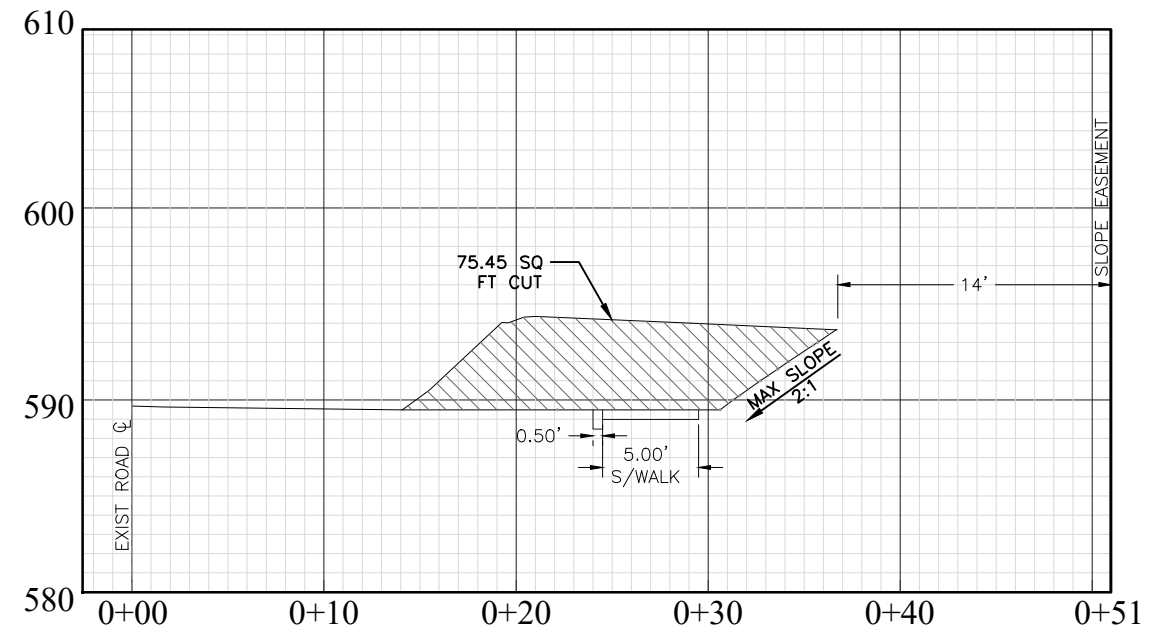
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KING ROAD, 132ND AVENUE AND RIDGECREST ROAD
SE RIDGECREST RD
GRADING & EROSION CONTROL PLAN
STA 26+22 TO 31+00
CLACKAMAS COUNTY, OREGON

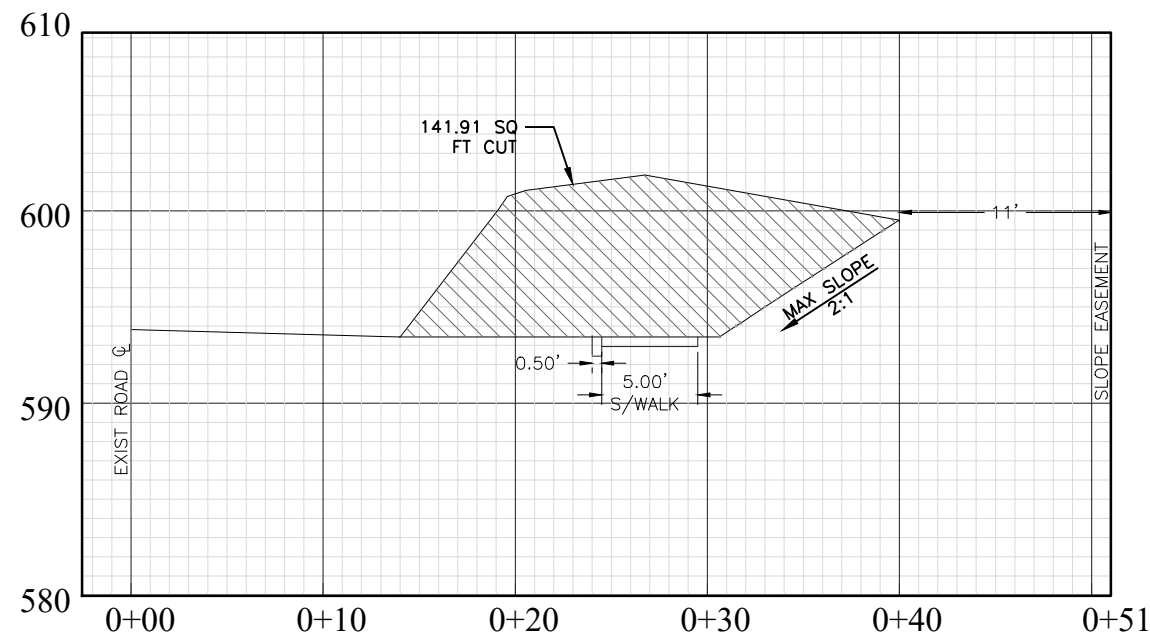
DATE	SEPT 2020
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D/S	JVB/JHH
CD	4729-C26-C28



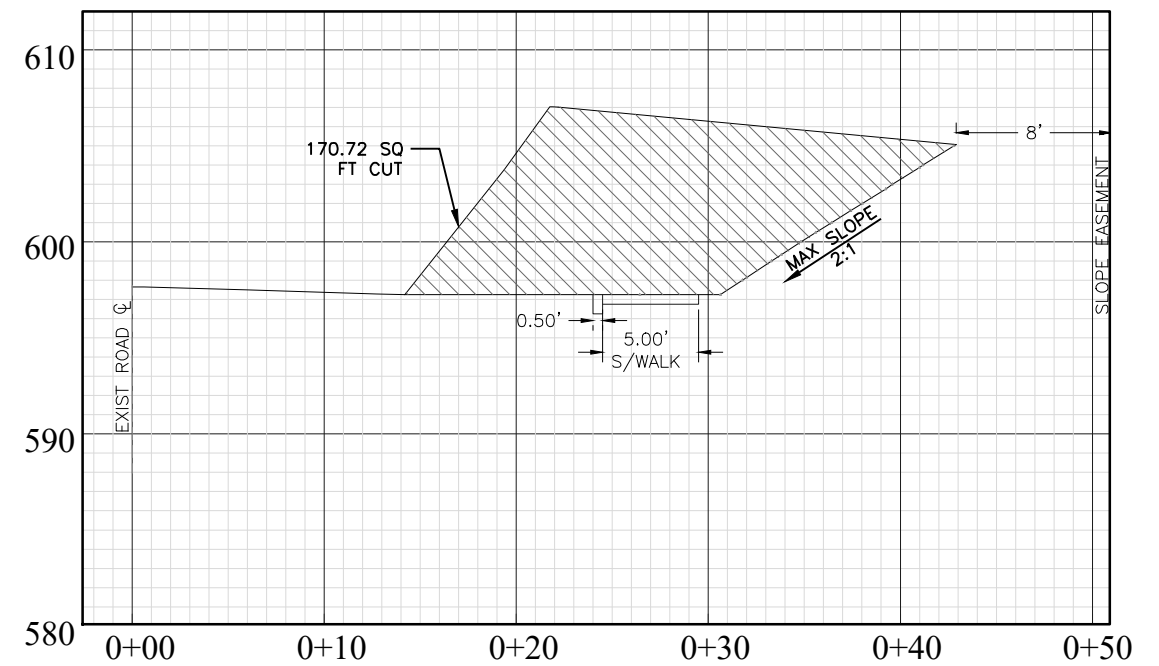
1
SE 132ND AVE
STA: 23+50 SECTION VIEW
SCALE: 1" = 5'



2
SE 132ND AVE
STA: 24+00 SECTION VIEW
SCALE: 1" = 5'



3
SE 132ND AVE
STA: 24+50 SECTION VIEW
SCALE: 1" = 5'



4
SE 132ND AVE
STA: 25+00 SECTION VIEW
SCALE: 1" = 5'

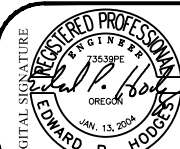
NOTE:
SEE SPEC. FEATURE SECTION 00320 FOR ENGINEERS
APPROVAL OF STRIPPING AND BENCHING. SEE
SPECIFICATION SECTION 00330.44 FOR COMPACTION
TESTING AND EMBANKMENT FILL REQUIREMENTS.



BAR IS ONE INCH ON
ORIGINAL DRAWING.
ADJUST SCALE
AS SHOWN
ACCORDINGLY.

REV.	DESCRIPTION	REVISED BY	DATE

REVISIONS



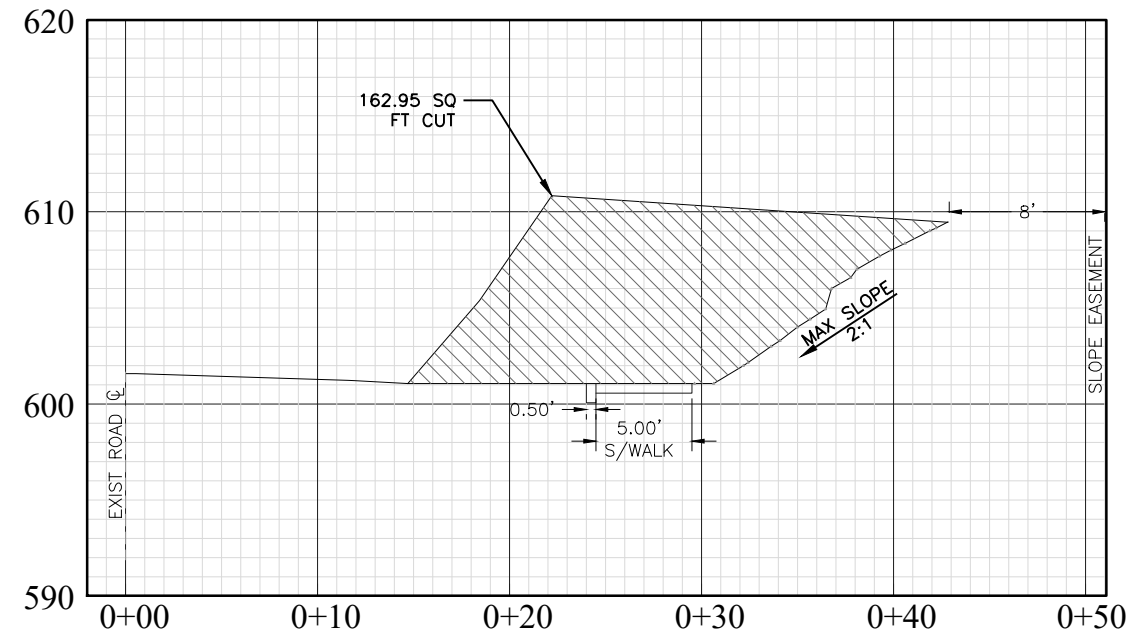
CURRAN-MCLEOD, INC.
CONSULTING ENGINEERS

6655 S.W. HAMPTON ST., SUITE 210
PORTLAND, OREGON 97223
PHONE (503) 684-3478

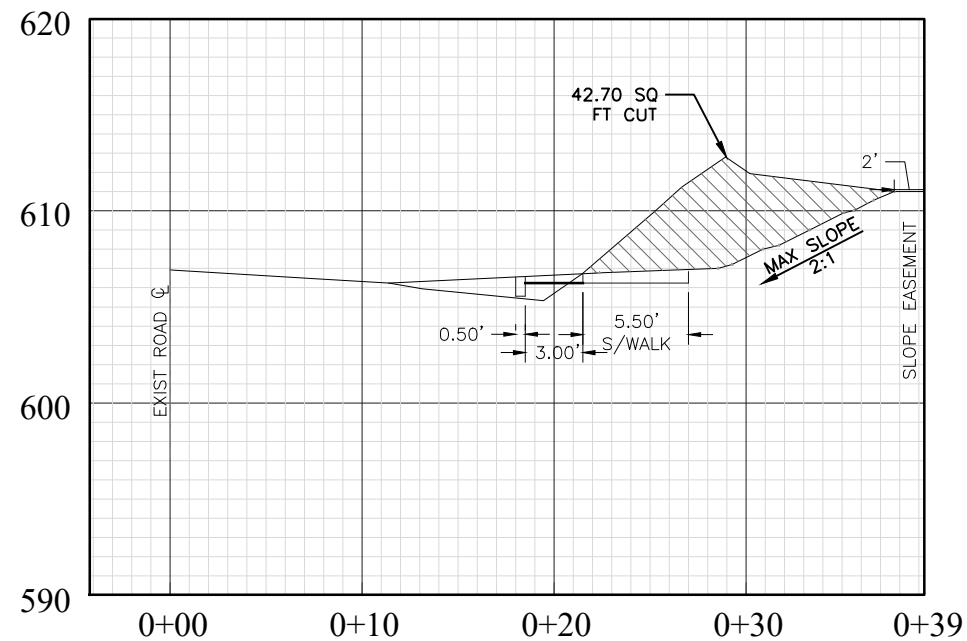
CITY OF HAPPY VALLEY
2020 SUPERBLOCK PEDESTRIAN IMPROVEMENTS - PHASE II
KING ROAD, 132ND AVENUE AND RIDGECREST ROAD
GRADING CROSS SECTIONS

CLACKAMAS COUNTY, OREGON

DATE	SEPT 2020
P/N	1729
D/B	EPH
D/S	JVB/JHH
CAD	729-C29-C34

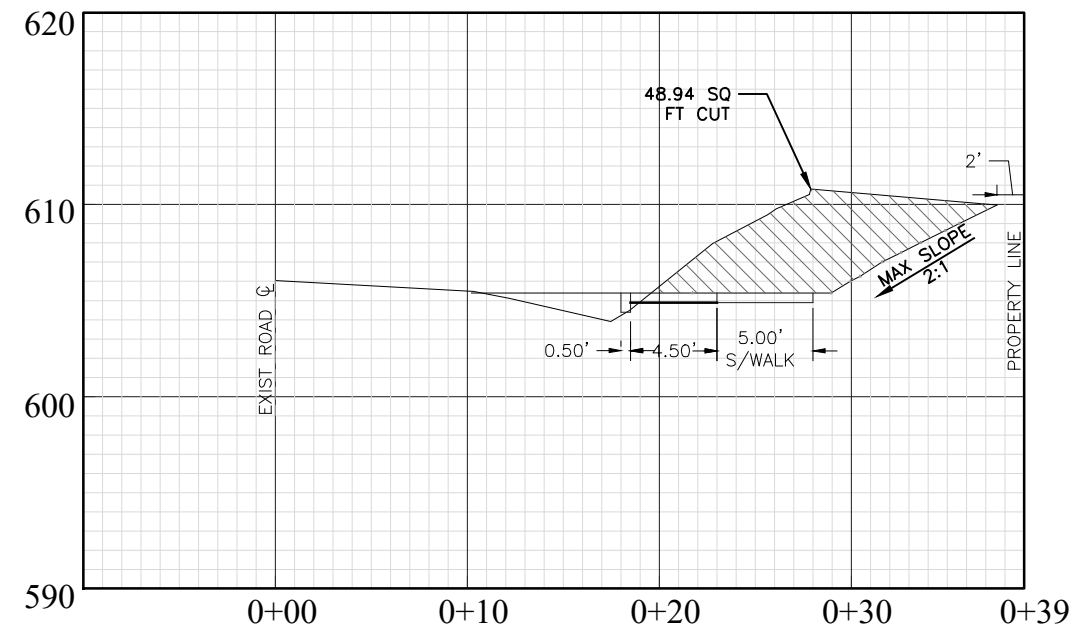


1
SE 132ND AVE
STA: 25+50 SECTION VIEW
SCALE: 1" = 5'



2
SE RIDGECREST ROAD
STA: 26+75 SECTION VIEW
SCALE: 1" = 5'

NOTE:
SEE SPEC. FEATURE SECTION 00320 FOR ENGINEERS
APPROVAL OF STRIPPING AND BENCHING. SEE
SPECIFICATION SECTION 00330.44 FOR COMPACTION
TESTING AND EMBANKMENT FILL REQUIREMENTS.



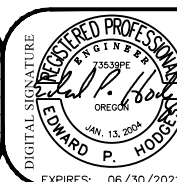
3
SE RIDGECREST ROAD
STA: 27+25 SECTION VIEW
SCALE: 1" = 5'



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ORIGINAL DRAWING.
ADJUST SCALE
AS SHOWN
ACCORDINGLY.

REV.	DESCRIPTION	REVISED BY	DATE

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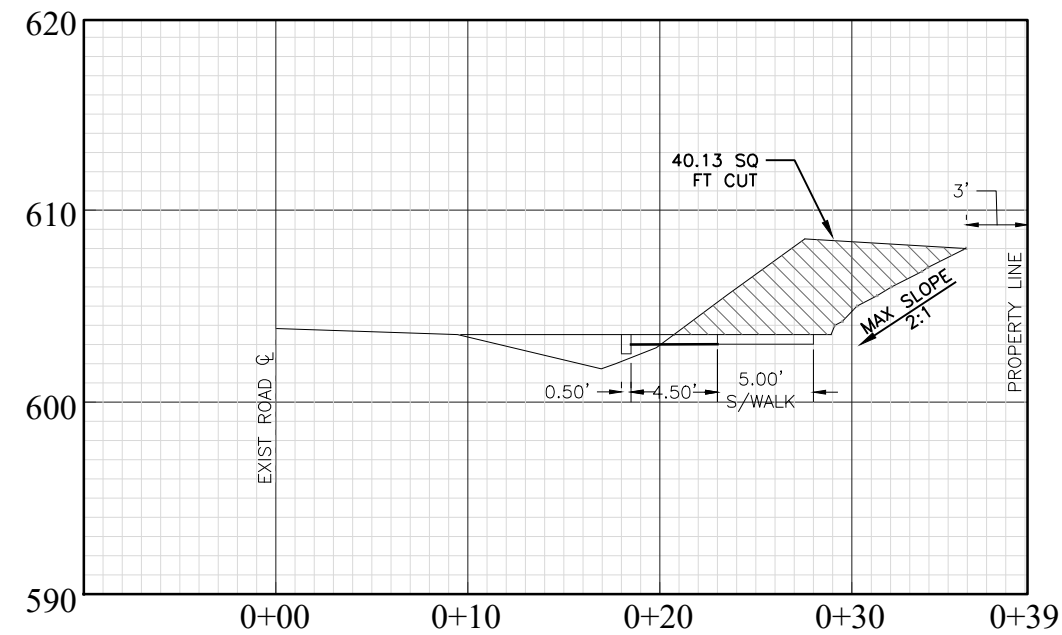
6655 S.W. HAMPTON ST., SUITE 210
PORTLAND, OREGON 97223
PHONE (503) 684-3478

CITY OF HAPPY VALLEY
2020 SUPERBLOCK PEDESTRIAN IMPROVEMENTS - PHASE II
KING ROAD, 132ND AVENUE AND RIDGECREST ROAD
GRADING CROSS SECTIONS

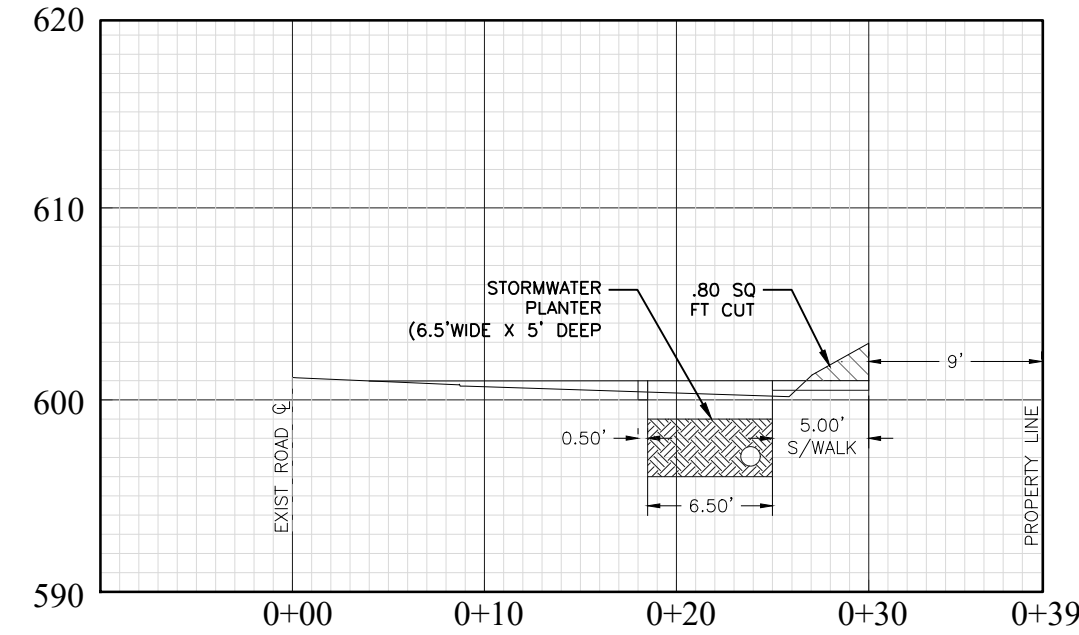
CLACKAMAS COUNTY, OREGON

DATE	SEPT 2020
P/N	1729
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CAD	729-C29-C34

C30
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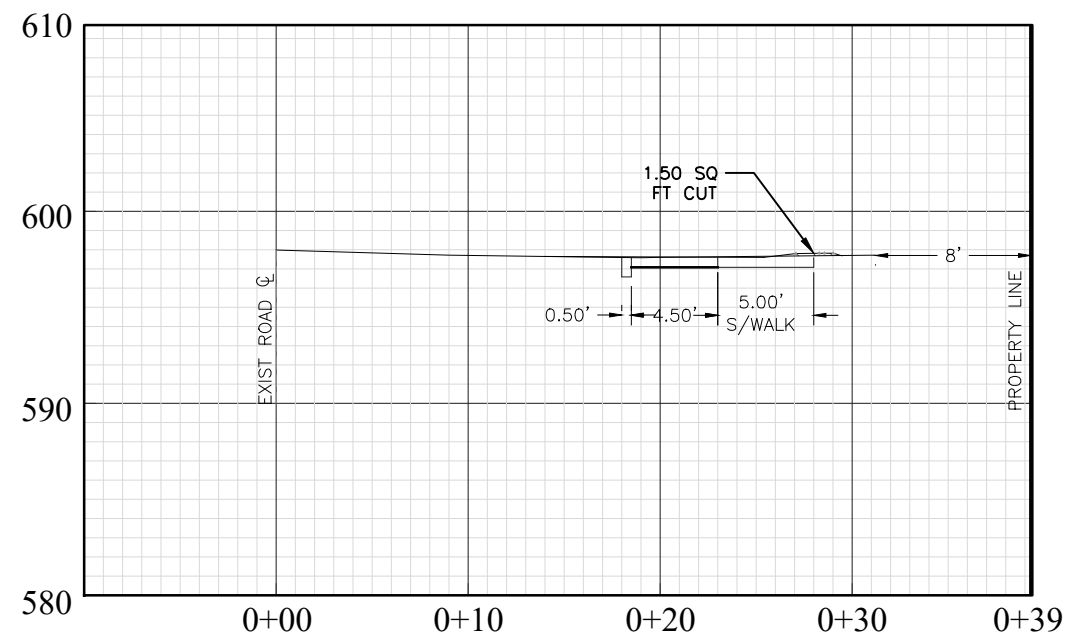


1
SE RIDGECREST ROAD
STA: 27+75 SECTION VIEW
SCALE: 1" = 5'

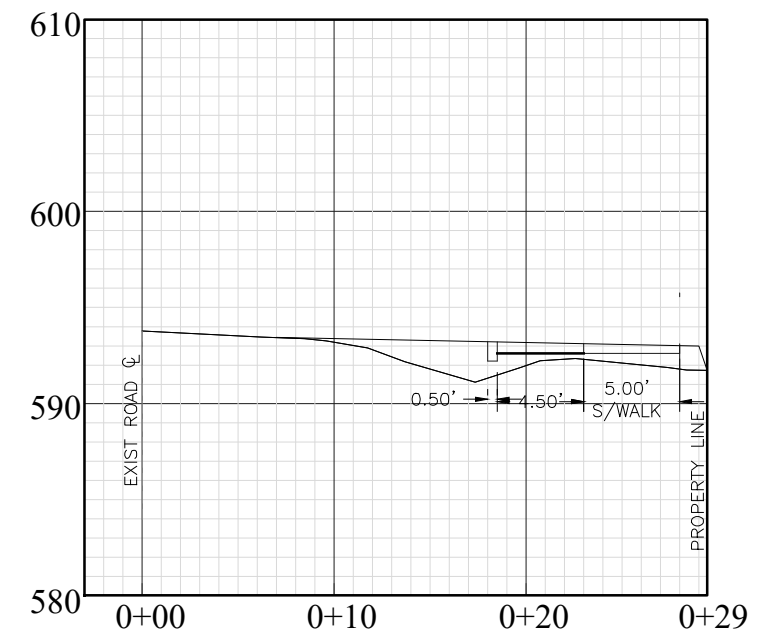


2
SE RIDGECREST ROAD
STA: 28+25 SECTION VIEW
SCALE: 1" = 5'

NOTE:
SEE SPEC. FEATURE SECTION 00320 FOR ENGINEERS
APPROVAL OF STRIPPING AND BENCHING. SEE
SPECIFICATION SECTION 00330.44 FOR COMPACTION
TESTING AND EMBANKMENT FILL REQUIREMENTS.



3
SE RIDGECREST ROAD
STA: 28+75 SECTION VIEW
SCALE: 1" = 5'



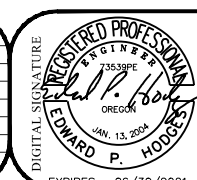
4
SE RIDGECREST ROAD
STA: 29+25 SECTION VIEW
SCALE: 1" = 5'



BAR IS ONE INCH ON
ORIGINAL DRAWING.
ADJUST SCALE
AS SHOWN
ACCORDINGLY.

REV.	DESCRIPTION	REVISED BY	DATE

REVISIONS

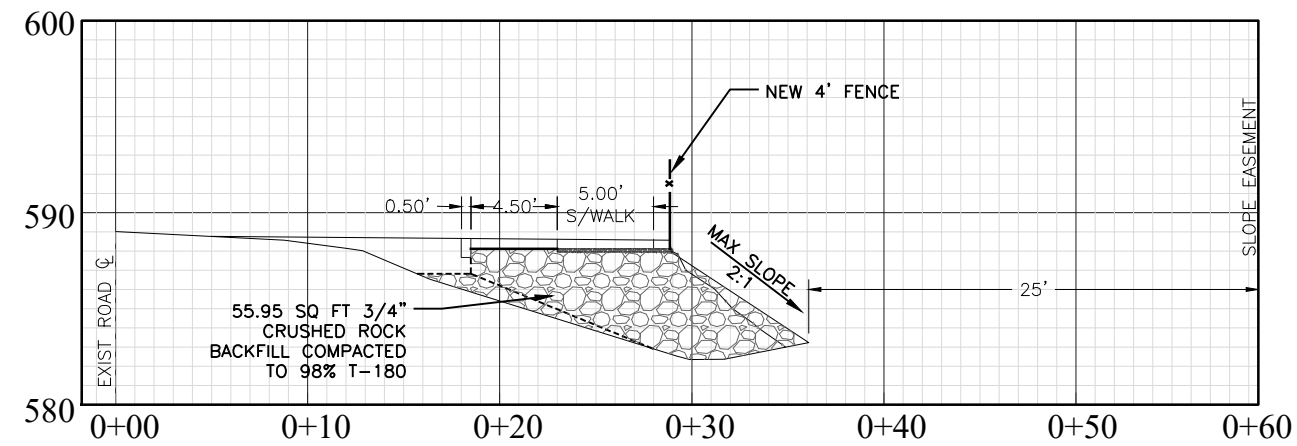


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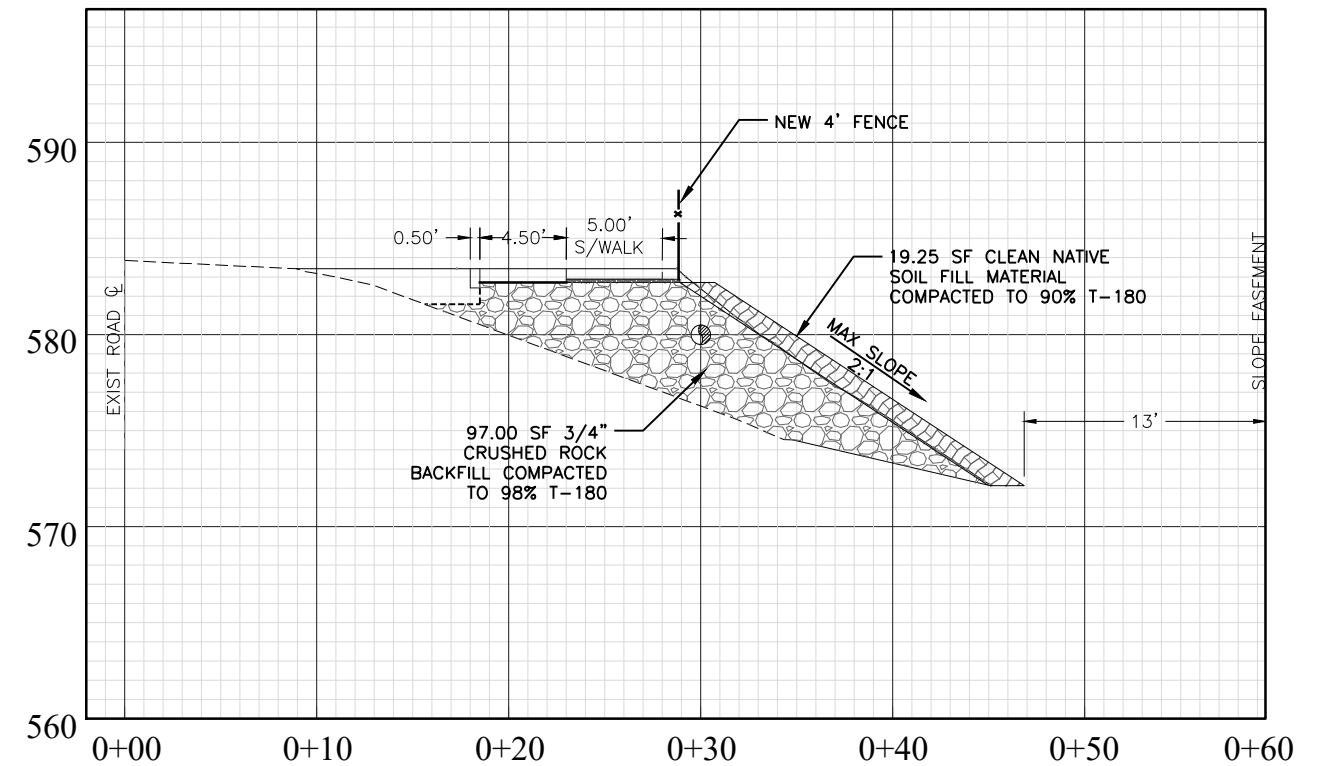
CITY OF HAPPY VALLEY
2020 SUPERBLOCK PEDESTRIAN IMPROVEMENTS - PHASE II
KING ROAD, 132ND AVENUE AND RIDGECREST ROAD
CROSS SECTION DETAILS
CLACKAMAS COUNTY, OREGON

DATE	SEPT 2020
P/N	1729
D/R	EPH
D/S	JHH/JVB
CA	729-C29-C34

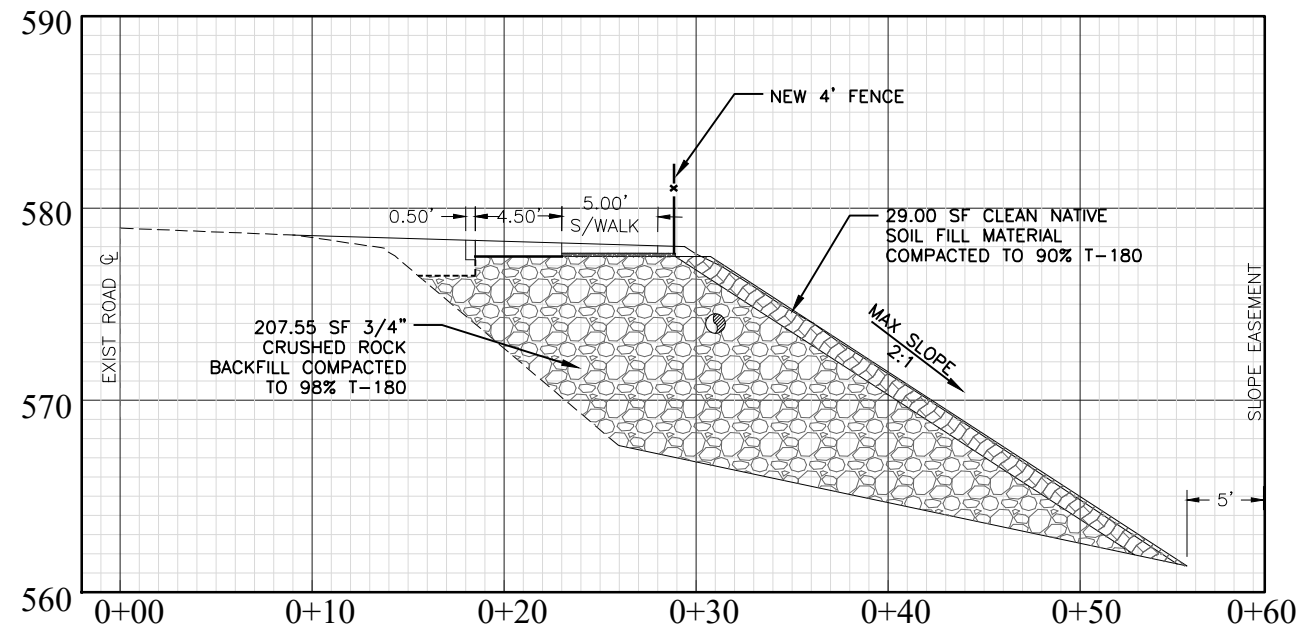


SE RIDGECREST ROAD
STA: 29+75 SECTION VIEW
SCALE: 1" = 5'

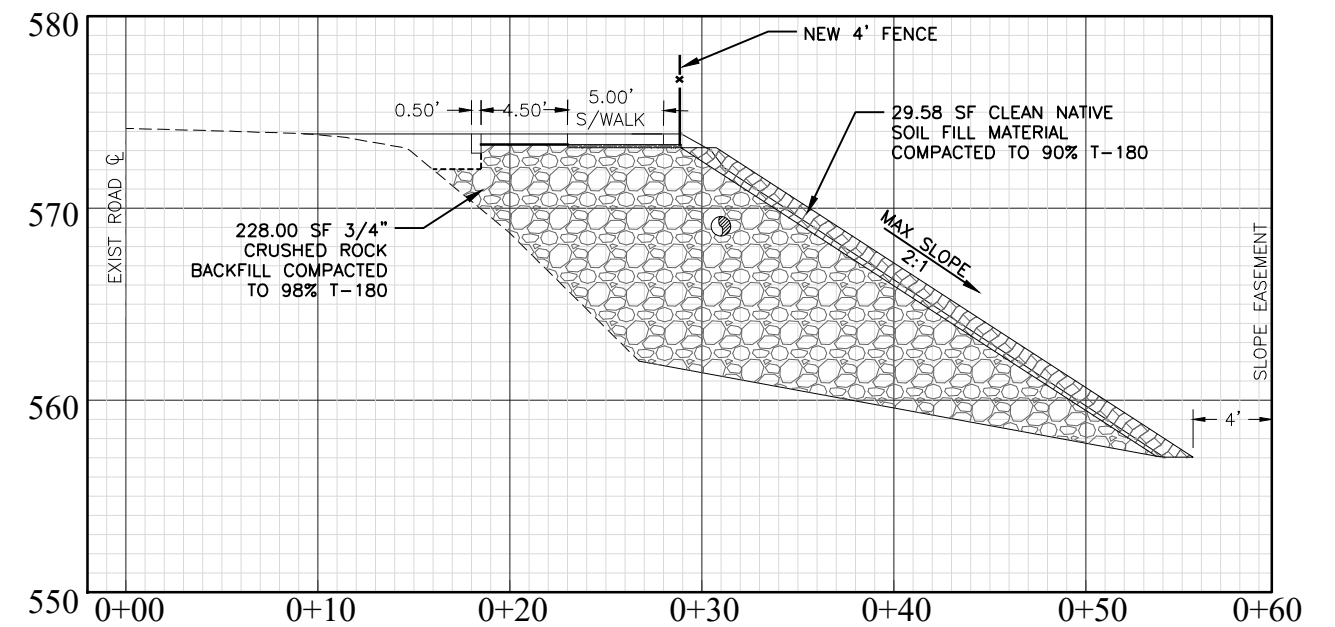
NOTE:
SEE SPEC. FEATURE SECTION 00320 FOR ENGINEERS
APPROVAL OF STRIPPING AND BENCHING. SEE
SPECIFICATION SECTION 00330.44 FOR COMPACTION
TESTING AND EMBANKMENT FILL REQUIREMENTS.



SE RIDGECREST ROAD
STA: 30+25 SECTION VIEW
SCALE: 1" = 5'



SE RIDGECREST ROAD
STA: 30+75 SECTION VIEW
SCALE: 1" = 5'



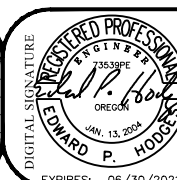
SE RIDGECREST ROAD
STA: 31+25 SECTION VIEW
SCALE: 1" = 5'



BAR IS ONE INCH ON
ORIGINAL DRAWING.
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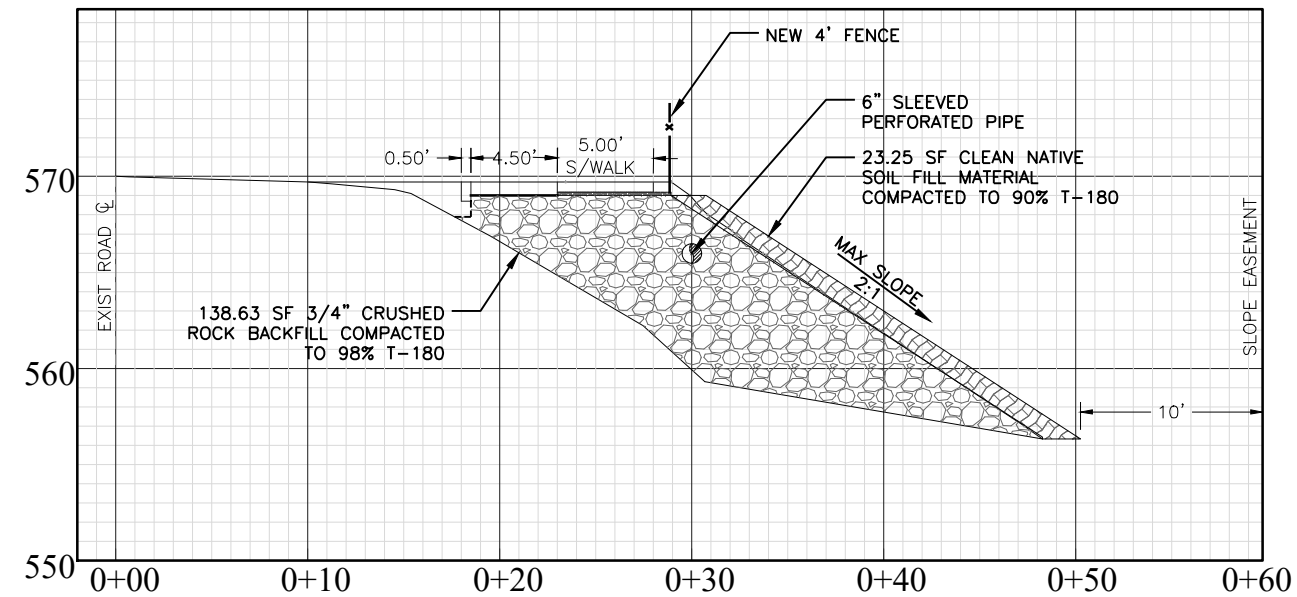
CITY OF HAPPY VALLEY
2020 SUPERBLOCK PEDESTRIAN IMPROVEMENTS - PHASE II
KING ROAD, 132ND AVENUE AND RIDGECREST ROAD
CROSS SECTION DETAILS

CLACKAMAS COUNTY, OREGON

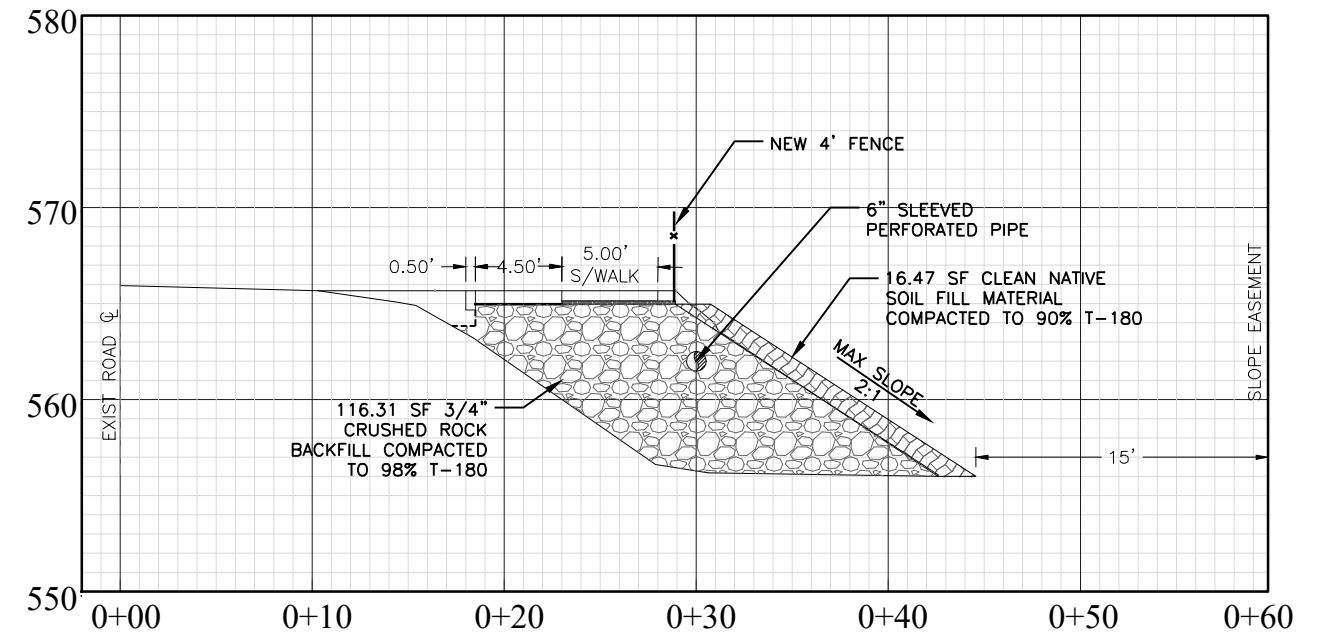
DATE	SEPT 2020
P/N	1729
D/B	EPH
D/S	JHH/JVB
CAD	729-C29-C34

C32
OF
49

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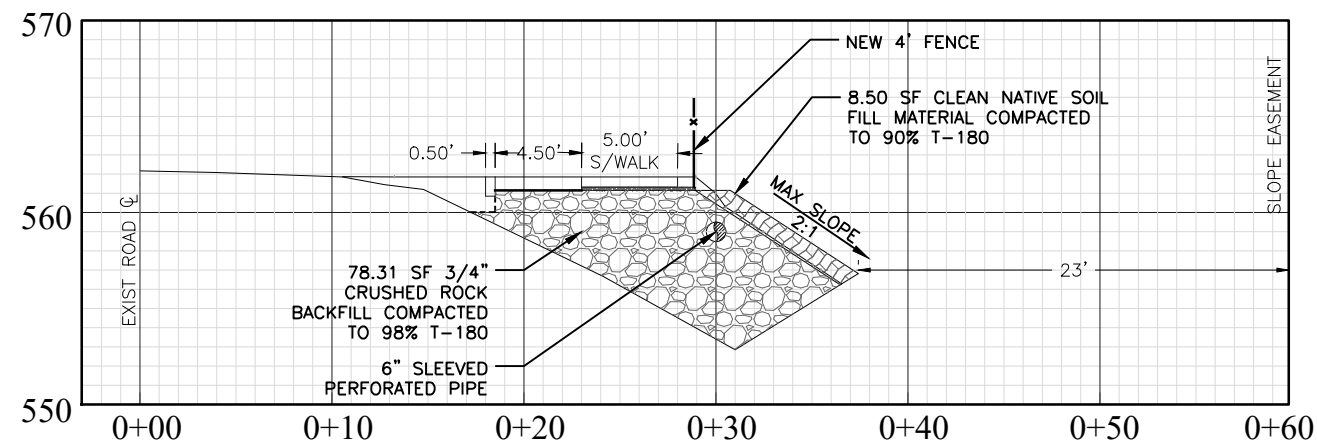


1
SE RIDGECREST ROAD
STA: 31+75 SECTION VIEW
SCALE: 1" = 5'

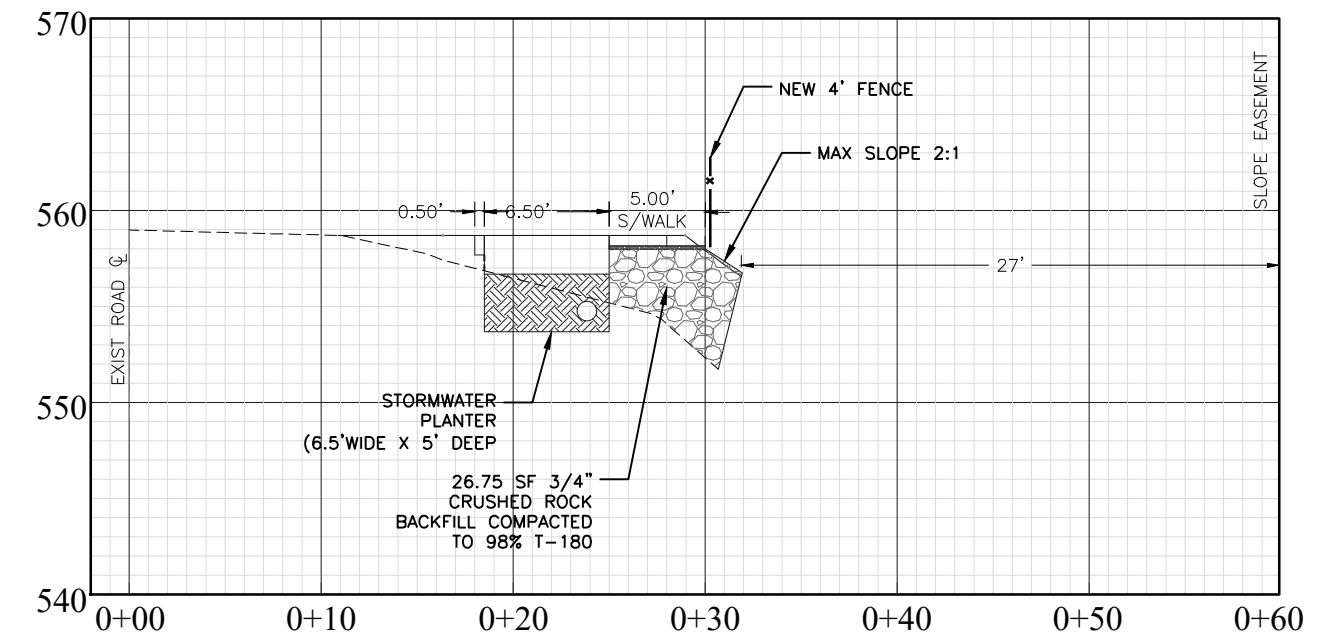


2
SE RIDGECREST ROAD
STA: 32+25 SECTION VIEW
SCALE: 1" = 5'

NOTE:
SEE SPEC. FEATURE SECTION 00320 FOR ENGINEERS
APPROVAL OF STRIPPING AND BENCHING. SEE
SPECIFICATION SECTION 00330.44 FOR COMPACTION
TESTING AND EMBANKMENT FILL REQUIREMENTS.



3
SE RIDGECREST ROAD
STA: 32+75 SECTION VIEW
SCALE: 1" = 5'



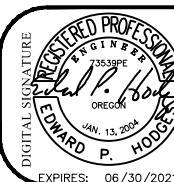
4
SE RIDGECREST ROAD
STA: 33+25 SECTION VIEW
SCALE: 1" = 5'



BAR IS ONE INCH ON
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PHONE (503) 684-3478

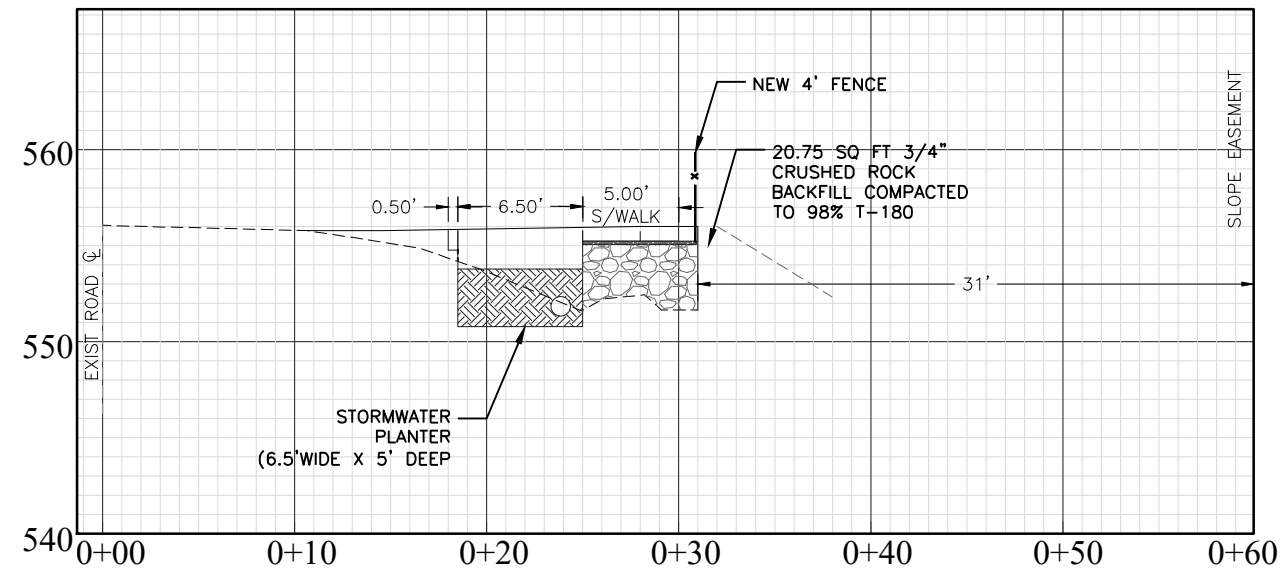
CITY OF HAPPY VALLEY
2020 SUPERBLOCK PEDESTRIAN IMPROVEMENTS - PHASE II
KING ROAD, 132ND AVENUE AND RIDGECREST ROAD
CROSS SECTION DETAILS

CLACKAMAS COUNTY, OREGON

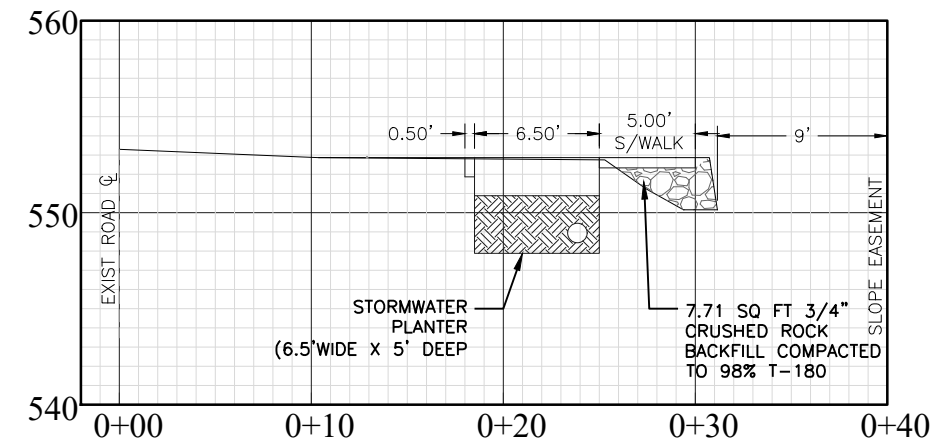
DATE	SEPT 2020
P/N	1729
D/B	EPH
D/S	JHH/JVB
CAD	729-C29-C34

C33
OF
49

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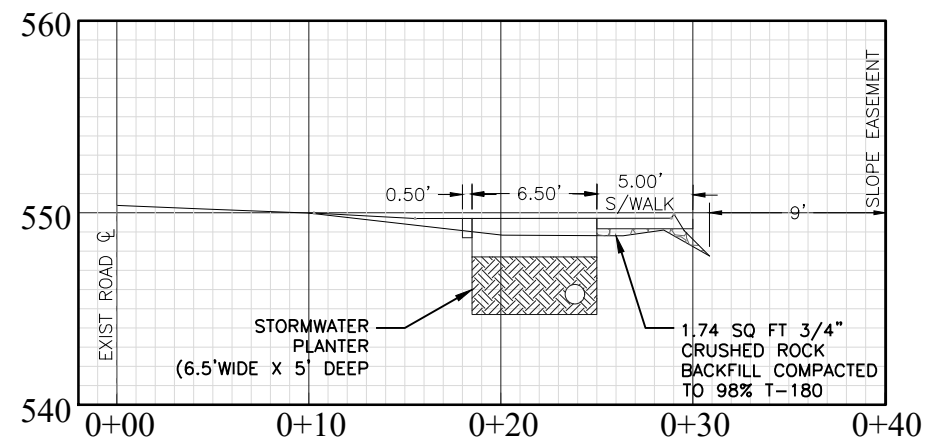


1
SE RIDGECREST ROAD
STA: 33+75 SECTION VIEW
SCALE: 1" = 5'



2
SE RIDGECREST ROAD
STA: 34+25 SECTION VIEW
SCALE: 1" = 5'

NOTE:
SEE SPEC. FEATURE SECTION 00320 FOR ENGINEERS
APPROVAL OF STRIPPING AND BENCHING. SEE
SPECIFICATION SECTION 00330.44 FOR COMPACTION
TESTING AND EMBANKMENT FILL REQUIREMENTS.



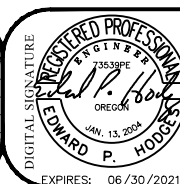
3
SE RIDGECREST ROAD
STA: 34+75 SECTION VIEW
SCALE: 1" = 5'



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ORIGINAL DRAWING.
ADJUST SCALE
AS SHOWN
ACCORDINGLY.

REV.	DESCRIPTION	REVISED BY	DATE

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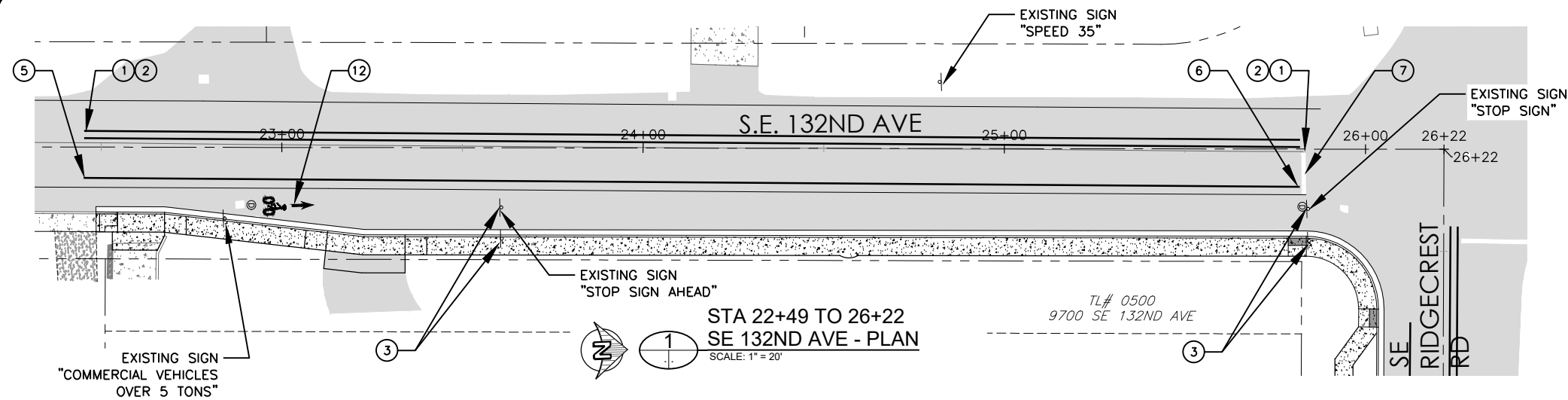
6655 S.W. HAMPTON ST., SUITE 210
PORTLAND, OREGON 97223
PHONE (503) 684-3478

CITY OF HAPPY VALLEY
2020 SUPERBLOCK PEDESTRIAN IMPROVEMENTS - PHASE II
KING ROAD, 132ND AVENUE AND RIDGECREST ROAD
CROSS SECTION DETAILS

CLACKAMAS COUNTY, OREGON

DATE	SEPT 2020
P/N	1729
D/B	EPH
D/S	JHH/JVB
CAD	729-C29-C34

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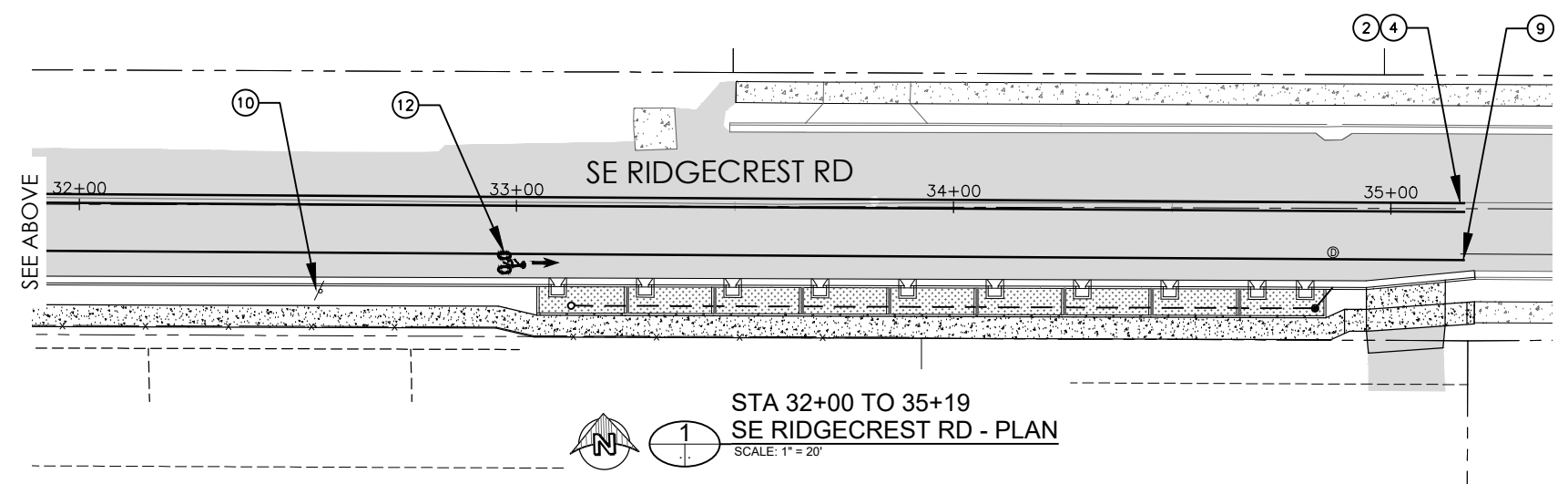
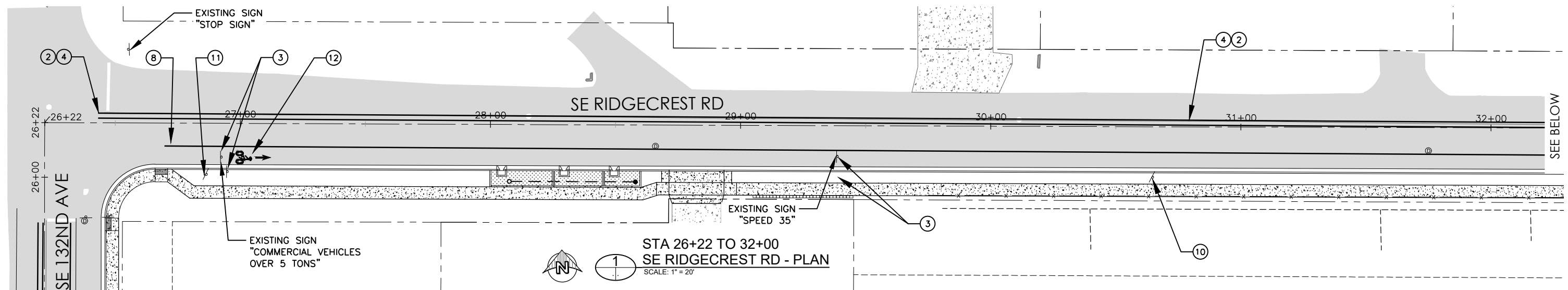


NOTE: CONTRACTOR TO REMOVE ALL EXISTING STRIPING BEFORE APPLYING NEW THERMOPLASTIC MARKINGS.

SEE DETAILS 330 AND 335 ON SHEET C38 FOR STRIPING INFORMATION.

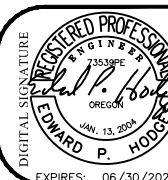
NOTES:

- | | | |
|--|--|---|
| <p>① SE 132ND AVE:
STA: 22+49 TO 25+83
REMOVE & REPLACE EXISTING
DOUBLE CENTER LANE STRIPING.</p> | <p>⑤ SE 132ND AVE:
STA: 22+49, BEGIN NEW BIKE
LANE (6" WHITE LINE) PER
DETAIL.</p> | <p>⑨ SE RIDGECREST RD:
STA: 35+19
END NEW BIKE LANE (6" WHITE
LINE) PER DETAIL.</p> |
| <p>② DOUBLE 4" YELLOW LANE
STRIPING.</p> | <p>⑥ SE 132ND AVE:
STA: 25+83, END NEW BIKE LANE
(6" WHITE LINE) PER DETAIL.</p> | <p>⑩ INSTALL BOTH DIRECTION
ARROW "NO PARKING ANY TIME"
SIGN PER DETAIL.</p> |
| <p>③ EXISTING SIGN TO BE REMOVED
& RELOCATED AS SHOWN ON
PLAN.</p> | <p>⑦ INSTALL 12" STOP BAR AS
SHOWN ON PLAN.</p> | <p>⑪ INSTALL LEFT ARROW "NO
PARKING ANY TIME" SIGN PER
DETAIL.</p> |
| <p>④ SE RIDGECREST:
STA: 26+46 TO 35+19
REMOVE & REPLACE EXISTING
DOUBLE CENTER LANE STRIPING.</p> | <p>⑧ SE RIDGECREST RD:
STA: 26+72, BEGIN NEW BIKE
LANE (6" WHITE LINE) PER
DETAIL.</p> | <p>⑫ INSTALL BIKE LANE STENCIL.</p> |



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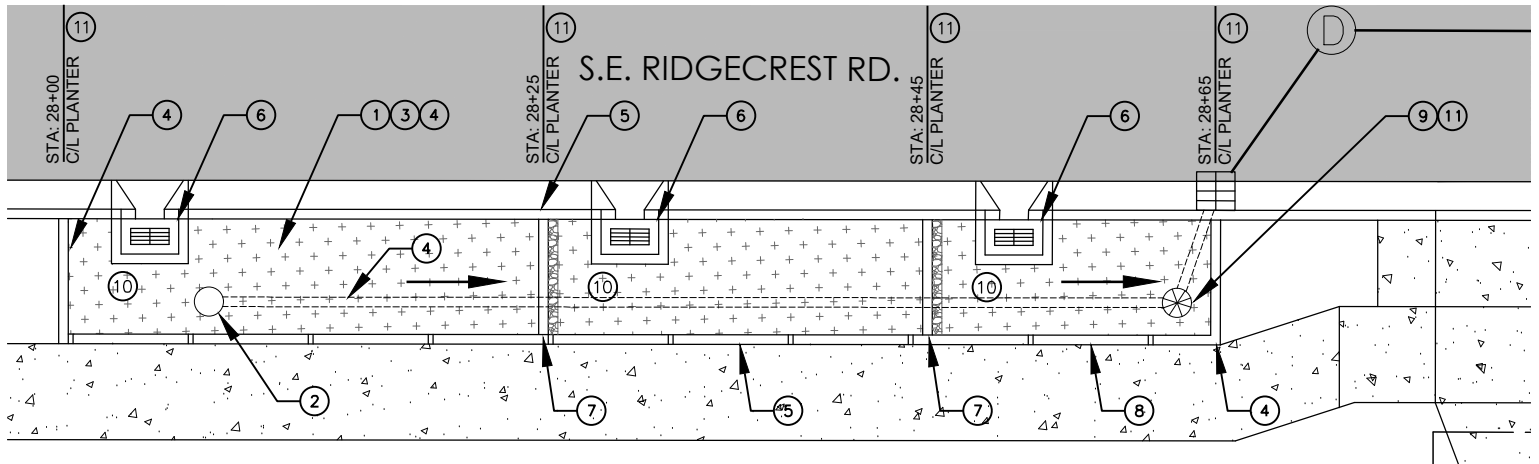
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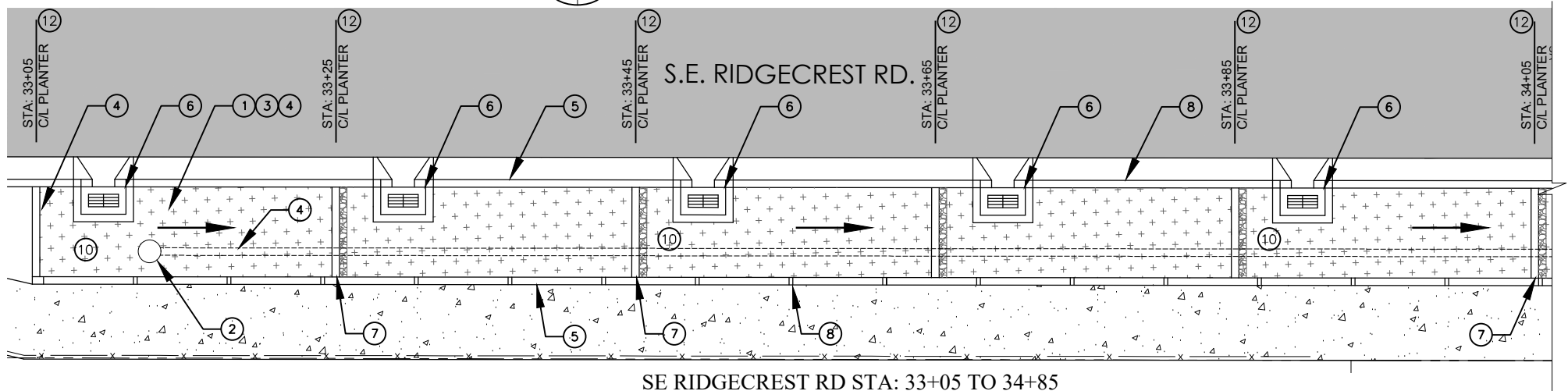
6655 S.W. HAMPTON ST., SUITE 210
PORTLAND, OREGON 97223
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CITY OF HAPPY VALLEY
2020 SUPERBLOCK PEDESTRIAN IMPROVEMENTS - PHASE II
KING ROAD, 132ND AVENUE AND RIDGECREST ROAD
SE 132ND AVE & SE RIDGECREST RD
STRIPING & SIGNAGE PLAN
STA 22+49 TO 35+19
CLACKAMAS COUNTY, OREGON

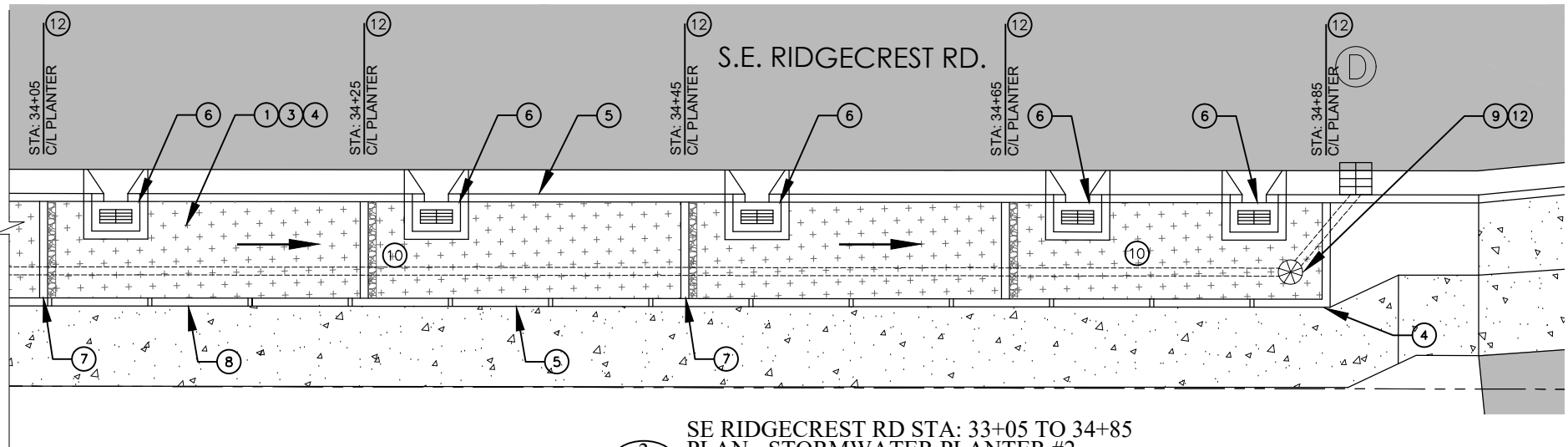
DATE	SEPT 2020
P/N	1729
D/B	EPH
D/S	JVB/JHH
CAD#	1729-C35



1
SE RIDGECREST RD STA: 28+00 TO 28+60
PLAN - STORMWATER PLANTER #1
SCALE: 1"=5'



2
SE RIDGECREST RD STA: 33+05 TO 34+85
PLAN - STORMWATER PLANTER #2
SCALE: 1"=5'



3
SE RIDGECREST RD STA: 33+05 TO 34+85
PLAN - STORMWATER PLANTER #2
SCALE: 1"=5'

CONSTRUCTION NOTES:

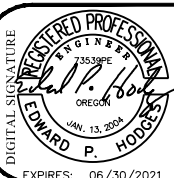
- 1 SEE DETAIL 619 & 620 ON SHEET C46 AND C48.
- 2 SEE DETAIL 618, SHEET C47
- 3 SEE DETAIL 620, SHEET C46
- 4 SEE DETAIL 621, SHEET C48
- 5 SEE DETAIL 622, SHEET C48
- 6 SEE DETAIL 623, SHEET C47
- 7 SEE DETAIL 624, SHEET C49
- 8 SEE DETAIL 625, SHEET C47
- 9 SEE DETAIL 626, SHEET C47
- 10 SEE DETAIL 630, SHEET C47
- 11 SEE SHEET C37 FOR ALL DESIGN ELEVATION INFORMATION FOR PLANTER #1
- 12 SEE SHEET C37 FOR ALL DESIGN ELEVATION INFORMATION FOR PLANTER #2



BAR IS ONE INCH ON ORIGINAL DRAWING.
ADJUST SCALE AS SHOWN ACCORDINGLY.

REV.	DESCRIPTION	REVISED BY	DATE

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CITY OF HAPPY VALLEY
2020 SUPERBLOCK PEDESTRIAN IMPROVEMENTS - PHASE II
KING ROAD, 132ND AVENUE AND RIDGECREST ROAD
SE RIDGECREST ROAD
PLAN - STORMWATER PLANTER
STA 28+00 TO 28+60 & STA 33+05 TO 34+85
CLACKAMAS COUNTY, OREGON

DATE	SEPT 2020
P.N.	1729
D/B	EPH
D/S	JVB/JHH
CAD#	C36-C37

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ROAD SIDE STORM WATER PLANTER NO. 1 DESIGN ELEVATION DATA

START STA	2800	LENGTH	60.00	FT
END STA	2860	AREA	390.00	FT ²
WIDTH	6.50	FT ORIFICE DIA.	0.73	IN
RS SW PLANTER WALL		CHECK DAM NO. 1		CHECK DAM NO. 2
STA	2800	STA	2825	2845
TOP OF CURB	602.50	TOP OF CURB	601.10	559.80
		LENGTH FROM UPSTREAM WALL	25.00	20.00
TOP WALL	602.83	TOP WALL	600.85	559.55
INLET RIM	601.90	INLET RIM	600.50	559.20
TOP GROWING MEDIUM	600.50	TOP GROWING MEDIUM	599.10	557.80
TOP 3/4- OGA	599.00	TOP 3/4- OGA	597.60	556.30
INVERT 6" PERF PIPE	598.00	INVERT 6" PERF PIPE	596.60	555.30
BOTTOM 1-1/2" ROCK MEDIA	597.25	BOTTOM 1-1/2" ROCK MEDIA	595.85	554.55
BOTTOM PLANTER WALL ELE.	599.83	BOTTOM PLANTER WALL ELE.	595.85	554.55
RS SW PLANTER END WALL		BEEHIVE OVERFLOW STRUCTURE		
STA	2860	STA	2858	
TOP OF CURB	598.80	TOP OF CURB	598.00	
LENGTH FROM UPSTREAM WALL	15.00			
TOP WALL	599.13	BEEHIVE O/F ELE.	597.30	
INLET RIM	598.20	BEEHIVE INVERT 6" PERF PIPE	594.30	
TOP GROWING MEDIUM	596.80	12" INVERT OUTLET PIPE	593.80	
TOP 3/4- OGA	595.30			
BEEHIVE INVERT 6" PERF PIPE	594.30			
BOTTOM 1-1/2" ROCK MEDIA	593.55			
BOTTOM PLANTER WALL ELE.	596.13			

ROAD SIDE STORM WATER PLANTER NO. 2 DESIGN ELEVATION DATA

START STA	3305		LENGTH	180.00	FT				
END STA	3485		AREA	1170.00	FT ²				
WIDTH	6.50	FT	ORIFICE DIA.	0.84	IN				
RS SW PLANTER START WALL			CHECK DAM NO. 1			CHECK DAM NO. 2		CHECK DAM NO. 3	CHECK DAM NO. 4
STA	3305		STA	3325		STA	3345	STA	3385
TOP OF CURB	560.10		TOP OF CURB	558.90		TOP OF CURB	557.70	TOP OF CURB	555.3
			LENGTH FROM UPSTREAM WALL	20.00		LENGTH FROM UPSTREAM WALL	20.00	LENGTH FROM UPSTREAM WALL	20.00
TOP WALL	560.43		TOP WALL	558.65		TOP WALL	557.45	TOP WALL	555.05
INLET RIM	559.50		INLET RIM	558.30		INLET RIM	557.10	INLET RIM	554.70
TOP GROWING MEDIUM	558.10		TOP GROWING MEDIUM	556.90		TOP GROWING MEDIUM	555.70	TOP GROWING MEDIUM	553.30
TOP 3/4- OGA	556.60		TOP 3/4- OGA	555.40		TOP 3/4- OGA	554.20	TOP 3/4- OGA	551.80
INVERT 6" PERF PIPE	555.60		INVERT 6" PERF PIPE	554.40		INVERT 6" PERF PIPE	553.20	INVERT 6" PERF PIPE	550.80
BOTTOM 1-1/2" ROCK MEDIA	554.85		BOTTOM 1-1/2" ROCK MEDIA	553.65		BOTTOM 1-1/2" ROCK MEDIA	552.45	BOTTOM 1-1/2" ROCK MEDIA	550.05
BOTTOM PLANTER WALL ELE.	557.43		BOTTOM PLANTER WALL ELE.	553.65		BOTTOM PLANTER WALL ELE.	552.45	BOTTOM PLANTER WALL ELE.	550.05
CHECK DAM NO. 5			CHECK DAM NO. 6			CHECK DAM NO. 7		CHECK DAM NO. 8	RS SW PLANTER END WALL
STA	3405		STA	3425		STA	3445	STA	3485
TOP OF CURB	554.2		TOP OF CURB	553.10		TOP OF CURB	551.90	TOP OF CURB	550.80
LENGTH FROM UPSTREAM WALL	20.00		LENGTH FROM UPSTREAM WALL	3425.00		LENGTH FROM UPSTREAM WALL	20.00	LENGTH FROM UPSTREAM WALL	20.00
TOP WALL	553.95		TOP WALL	552.85		TOP WALL	551.65	TOP WALL	550.55
INLET RIM	553.60		INLET RIM	552.50		INLET RIM	551.30	INLET RIM	550.20
TOP GROWING MEDIUM	552.20		TOP GROWING MEDIUM	551.10		TOP GROWING MEDIUM	549.90	TOP GROWING MEDIUM	548.80
TOP 3/4- OGA	550.70		TOP 3/4- OGA	549.60		TOP 3/4- OGA	548.40	TOP 3/4- OGA	547.30
INVERT 6" PERF PIPE	549.70		INVERT 6" PERF PIPE	548.60		INVERT 6" PERF PIPE	547.40	INVERT 6" PERF PIPE	546.30
BOTTOM 1-1/2" ROCK MEDIA	548.95		BOTTOM 1-1/2" ROCK MEDIA	547.85		BOTTOM 1-1/2" ROCK MEDIA	546.65	BOTTOM 1-1/2" ROCK MEDIA	545.55
BOTTOM PLANTER WALL ELE.	548.95		BOTTOM PLANTER WALL ELE.	547.85		BOTTOM PLANTER WALL ELE.	546.65	BOTTOM PLANTER WALL ELE.	545.55
BEEHIVE OVERFLOW STRUCTURE									
STA	3483								
TOP OF CURB	549.85								
BEEHIVE O/F ELE.	549.15								
BEEHIVE INVERT 6" PERF PIPE	546.80								
12" INVERT OUTLET PIPE	546.30								



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ADJUST SCALE
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ACCORDINGLY

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REVISIONS



EXPIRES: 06/30/2021

CURRAN-McLEOD, INC.
CONSULTING ENGINEERS

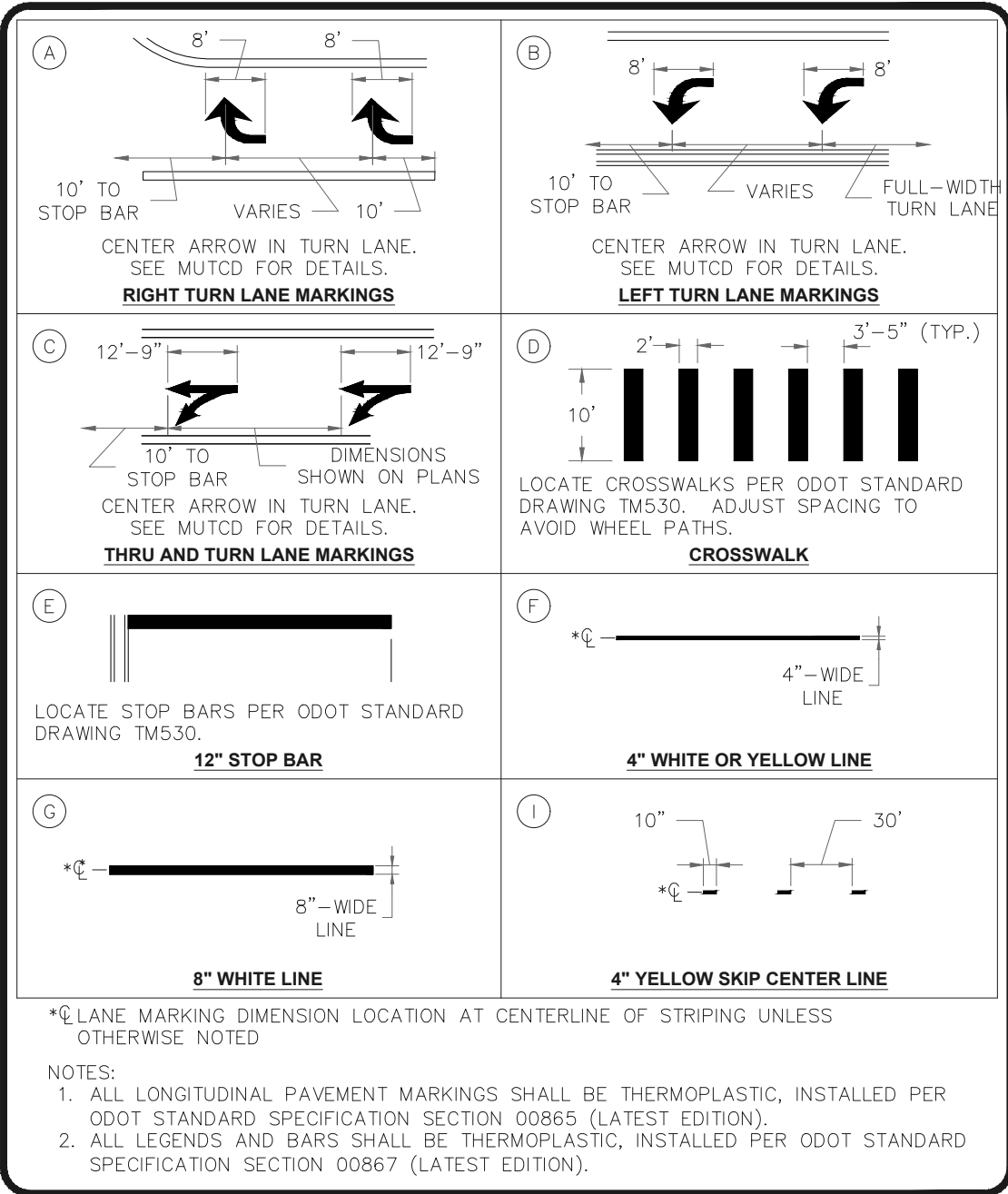
6655 S.W. HAMPTON ST., SUITE 210
PORTLAND, OREGON 97223
PHONE (503) 684-3478

CITY OF HAPPY VALLEY
2020 SUPERBLOCK PEDESTRIAN IMPROVEMENTS - PHASE II
KING ROAD, 132ND AVENUE AND RIDGECREST ROAD
SE RIDGECREST ROAD
STORMWATER PLANTER #1 & #2 DATA
STA 28+00 TO 28+60 & STA 33+05 TO 34+85
CLACKAMAS COUNTY, OREGON

DATE	SEPT 2020
P/N	1729
D/B	EPH
D/S	JVB/JHH
CAD#	C36-C37

C37
OF
49

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HW CITY OF HAPPY VALLEY
ENGINEERING DIVISION
16000 SE MISTY DRIVE
HAPPY VALLEY, OR 97086

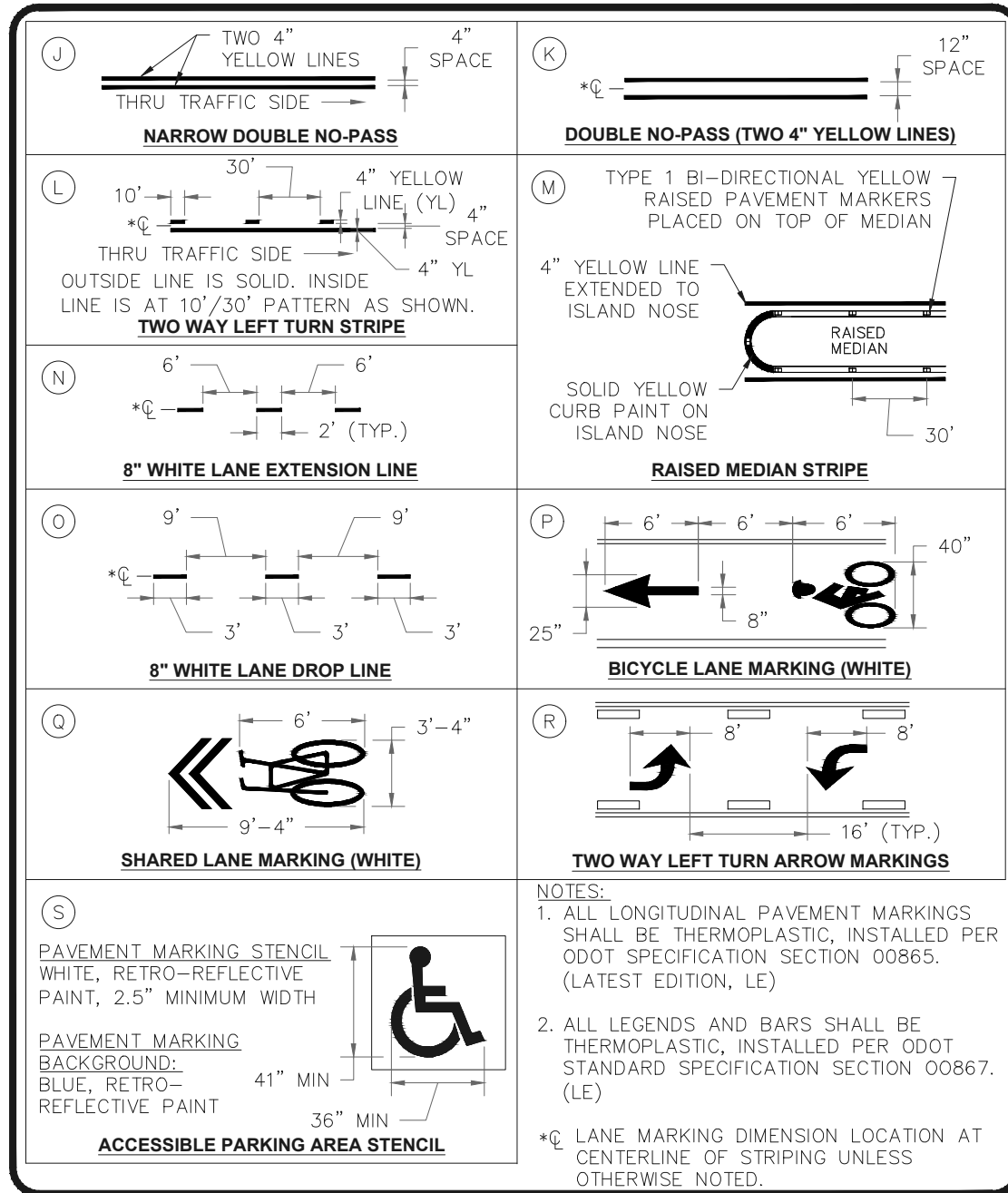
DWG NO: 330

STRIPING DETAILS 1

CITY ENGINEER
CAROL EARLE, P.E.

DATE: 4/1/2019

REVISED BY: PCB/JHH



HW CITY OF HAPPY VALLEY
ENGINEERING DIVISION
16000 SE MISTY DRIVE
HAPPY VALLEY, OR 97086

DWG NO: 335

STRIPING DETAILS 2

CITY ENGINEER
CAROL EARLE, P.E.

DATE: 4/1/2019

REVISED BY: PCB/JHH

HW HAPPY VALLEY, OR
EST. 1965

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REV.	DESCRIPTION	REVISED BY	DATE

REVISIONS

REGISTERED PROFESSIONAL ENGINEER
EDWARD P. HODGES
JAN. 13, 2004
EXPIRES: 06/30/2021

CURRAN-McLEOD, INC.
CONSULTING ENGINEERS

6655 S.W. HAMPTON ST., SUITE 210
PORTLAND, OREGON 97223
PHONE (503) 684-3478

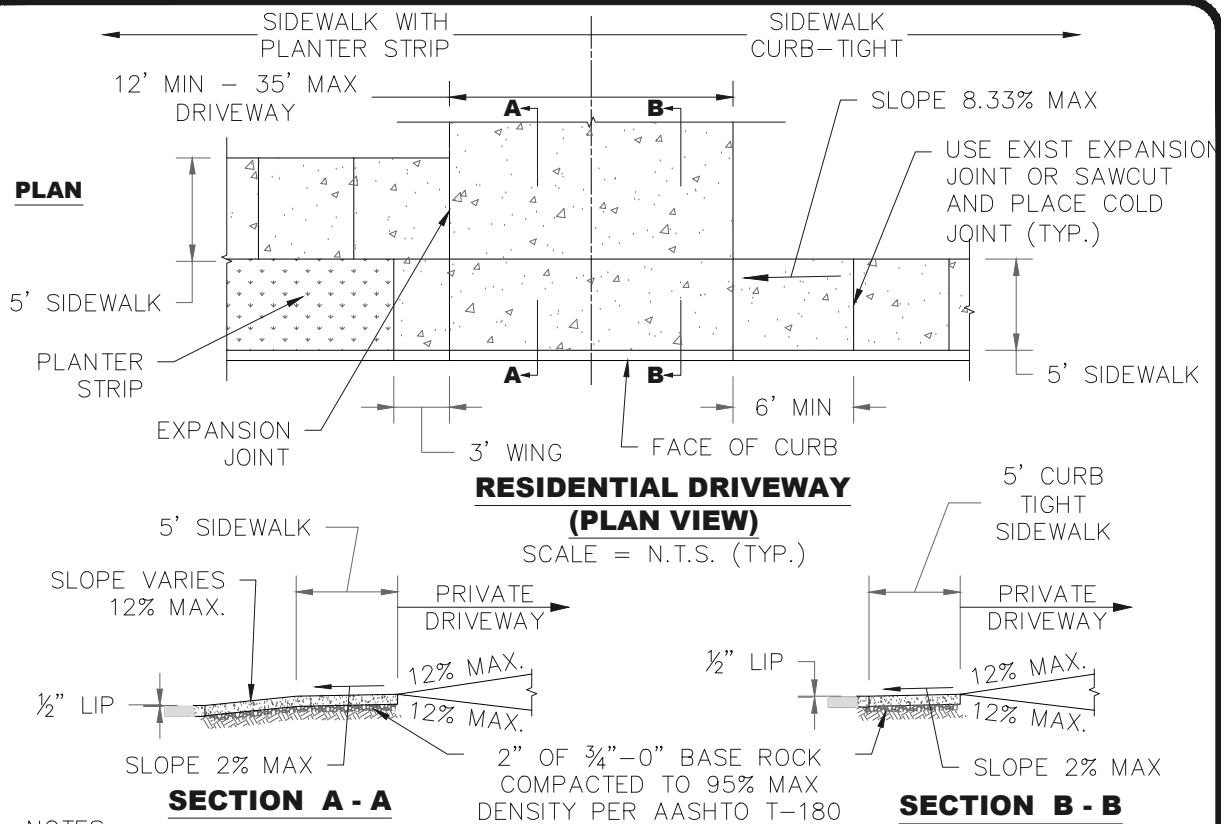
CITY OF HAPPY VALLEY
2020 SUPERBLOCK PEDESTRIAN IMPROVEMENTS - PHASE II
KING ROAD, 132ND AVENUE AND RIDGECREST ROAD
SE KING RD
STRIPING DETAILS

CLACKAMAS COUNTY, OREGON

DATE: SEPT 2020
P/N: 1729
D/B: EPH
D/S: JVB/JHH
CAD#: 1729-C38

C38
OF
49


J:\Happy Valley\1729 HV Superblock Sidewalk Connection\PHASE 2\DWG\1729-C39-C40.dwg, 9/25/2020 2:17:47 PM, DWG To PDF.pc3



NOTES:

- CURB JOINT SHALL BE A TROWELED JOINT WITH A MINIMUM $\frac{1}{2}$ " RADIUS ALONG BACK OF CURB.
- EXPANSION JOINT MATERIAL SHALL BE PREFORMED FILLER NOT LESS THAN $\frac{1}{2}$ " WIDE AND SHALL MEET ALL REQUIREMENTS FROM ODOT SECTION 00759.
- CONCRETE SHALL HAVE A BROOM FINISH AND EDGE ALL JOINTS.
- IF DURING CURB REMOVAL THE GUTTER BECOMES SEPERATED FROM THE STREET SURFACE IN EXCESS OF $\frac{1}{8}$ ", THEN THE GUTTER SHALL ALSO BE REMOVED AND REPLACED.
- SLOPE OF THE DRIVEWAY MAY BE AWAY FROM THE CURB WHEN PRE-APPROVED BY THE CITY ENGINEER.
- EDGE OF DRIVEWAY WINGS MUST BE A MINIMUM OF 10' FROM ANY FIRE HYDRANTS.
- SECTION A-A MAY BE USED FOR CURB-TIGHT SIDEWALK DRIVEWAY APRONS IF SIDEWALK WIDTH IS 10' OR GREATER.

DRIVEWAY WIDTH	CONCRETE THICKNESS	CONCRETE TYPE
< 24'	6"	COMMERCIAL MIX W/A 28-DAY COMPRESSIVE STRENGTH OF 3300psi. SHALL MEET ALL REQUIREMENTS FROM ODOT SECTION 00440.
≥ 24'	7"	



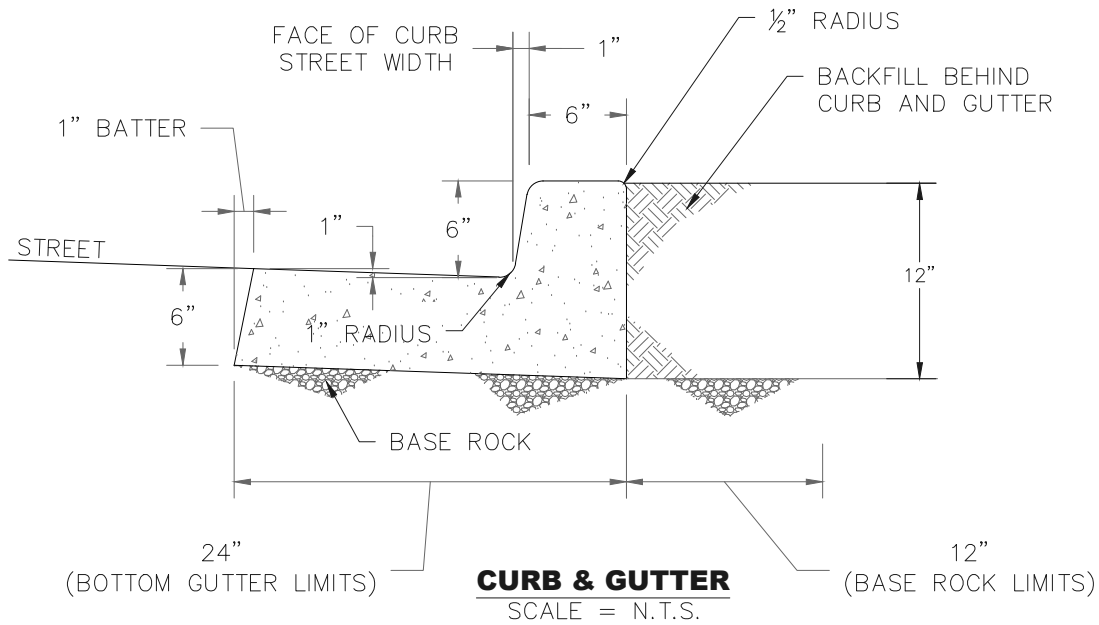
**CITY OF HAPPY VALLEY
ENGINEERING DIVISION**
16000 SE MISTY DRIVE
HAPPY VALLEY, OR 97086

DWG NO: 270

CITY ENGINEER
CAROL EARLE, P.E.


RESIDENTIAL DRIVEWAY

DATE: 4/1/2019REVISED BY: PCB/JHH



NOTES:

- CONCRETE SHALL BE COMMERCIAL MIX WITH A 28-DAY COMPRESSIVE STRENGTH OF 3300 PSI AND SHALL MEET ALL REQUIREMENTS FROM ODOT SECTION 00440.
- CONSTRUCT EXPANSION JOINTS AT 200' MAXIMUM SPACING, AND AT POINTS OF TANGENCY, AND AT ENDS OF EACH DRIVEWAY.
- EXPANSION JOINT MATERIAL SHALL BE PREFORMED FILLER NOT LESS THAN $\frac{1}{2}$ " WIDE AND SHALL MEET ALL REQUIREMENTS FROM ODOT SECTION 00759.
- CONTRACTION JOINTS SHALL HAVE:
 - SPACING OF NOT MORE THAN 15 FEET.
 - DEPTH OF JOINT OF AT LEAST $1\frac{1}{2}$ ".
- BASE ROCK SHALL BE $\frac{3}{4}$ "-0", COMPACTED TO 95% OF MAXIMUM DENSITY PER AASHTO T-180. BASE ROCK SHALL BE TO SUBGRADE OF STREET STRUCTURES OR 4", WHICHEVER IS GREATER, AND SHALL EXTEND 12" BEHIND CURB.
- FOR CURB AND GUTTER REQUIREMENTS ON SHED AND SUPERELEVATED ROAD SECTIONS, REVERSE THE GUTTER PAN SLOPE SO THAT THERE IS A 1" DROP FROM FACE OF CURB TO THE EDGE OF THE GUTTER PAN.
- AT CATCH BASIN INLETS TRANSITION GUTTER LINE TO MATCH CATCH BASIN OVER A 3' DISTANCE.
- WEEP HOLES ARE NOT ALLOWED THROUGH THE CURB.




**CITY OF HAPPY VALLEY
ENGINEERING DIVISION**
16000 SE MISTY DRIVE
HAPPY VALLEY, OR 97086

DWG NO: 230

CITY ENGINEER
CAROL EARLE, P.E.

MONOLITHIC CURB AND GUTTER

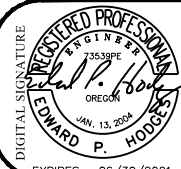
DATE: 4/1/2019REVISED BY: PCB/JHH



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REV.	DESCRIPTION	REVISED BY	DATE

REVISIONS



**CURRAN-MCLEOD, INC.
CONSULTING ENGINEERS**
6655 S.W. HAMPTON ST., SUITE 210
PORTLAND, OREGON 97223
PHONE (503) 684-3478

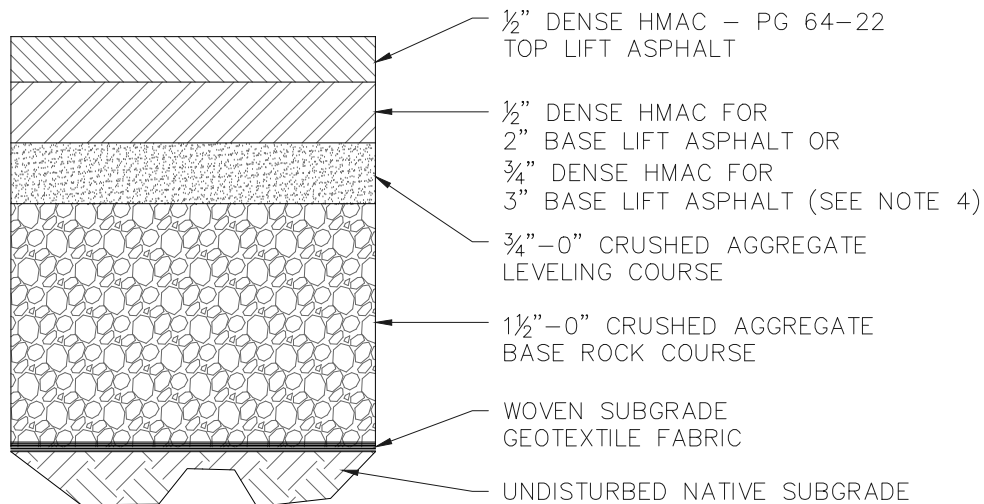
CITY OF HAPPY VALLEY
2020 SUPERBLOCK PEDESTRIAN IMPROVEMENTS - PHASE II
KING ROAD, 132ND AVENUE AND RIDGECREST ROAD
CONSTRUCTION DETAILS

CLACKAMAS COUNTY, OREGON

DATE	SEPT 2020
P/N	1729
D/B	EPH
D/S	JHH/JVB
CAD	729-C39-C40

**C39
OF
49**

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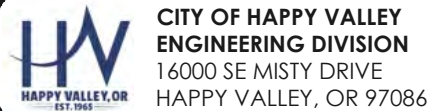


PAVEMENT SECTION CHART
COMPONENT THICKNESS (INCHES)

STREET FUNCTIONAL CLASSIFICATION	LEVEL HMAC	BINDER GRADE	TOP LIFT HMAC THICKNESS	BASE LIFT HMAC THICKNESS	LEVELING COURSE THICKNESS	BASE ROCK COURSE THICKNESS	GEOTEXT FABRIC REQUIRED
PRIVATE	2	PG64-22	3"		2"	8"	YES
LOCAL	2	PG64-22	2"	2"	2"	8"	YES
NEIGHBORHOOD	3	PG64-22	2"	2"	2"	9"	YES
COLLECTOR	3	PG64-22	2-1/2"	2-1/2"	3"	9"	YES
ARTERIAL	3	PG64-22	2-1/2"	2-1/2"	4"	10"	YES

NOTES:

- MATERIALS AND PLACEMENT OF THE HOT MIXED ASPHALT CONCRETE (HMAC) SHALL CONFORM TO THE REQUIREMENTS DELINEATED IN SECTION 00744 OF THE ODOT/APWA, OREGON STANDARD SPECIFICATIONS FOR CONSTRUCTION, EXCEPT AS MODIFIED BY THE CITY AND/OR APPROVED BY CITY ENGINEER.
- THE TOP LIFT OF HMAC SHALL BE PLACED PRIOR TO CITY FINAL ACCEPTANCE OF PUBLIC INFRASTRUCTURE IMPROVEMENTS.
- CRUSHED AGGREGATE USED FOR BASE ROCK AND LEVELING COURSE SHALL CONFORM TO THE REQUIREMENTS DELINEATED IN SECTION 02630 - BASE AGGREGATE, OF THE ODOT/APWA, OREGON STANDARD SPECIFICATIONS FOR CONSTRUCTION. MAXIMUM MOISTURE DENSITY BY AASHTO T-180 ASTM D-1557 AS SPECIFIED.
- 1/2" DENSE HMAC MAY BE USED IN-LIEU-OF 3/4" DENSE HMAC FOR THE BASE LIFT OF ASPHALT.
- PAVEMENT DESIGN SHALL BE BASED ON SITE SPECIFIC CONDITIONS. THE ABOVE PAVEMENT SECTIONS REPRESENT THE MINIMUM THICKNESS AFTER COMPACTION

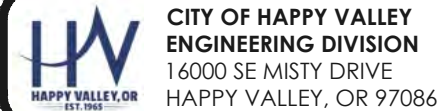


DWG NO: 160

PAVEMENT SECTIONS

CITY ENGINEER
CAROL EARLE, P.E.

DATE: 4/1/2019 REVISED BY: PCB/JHH

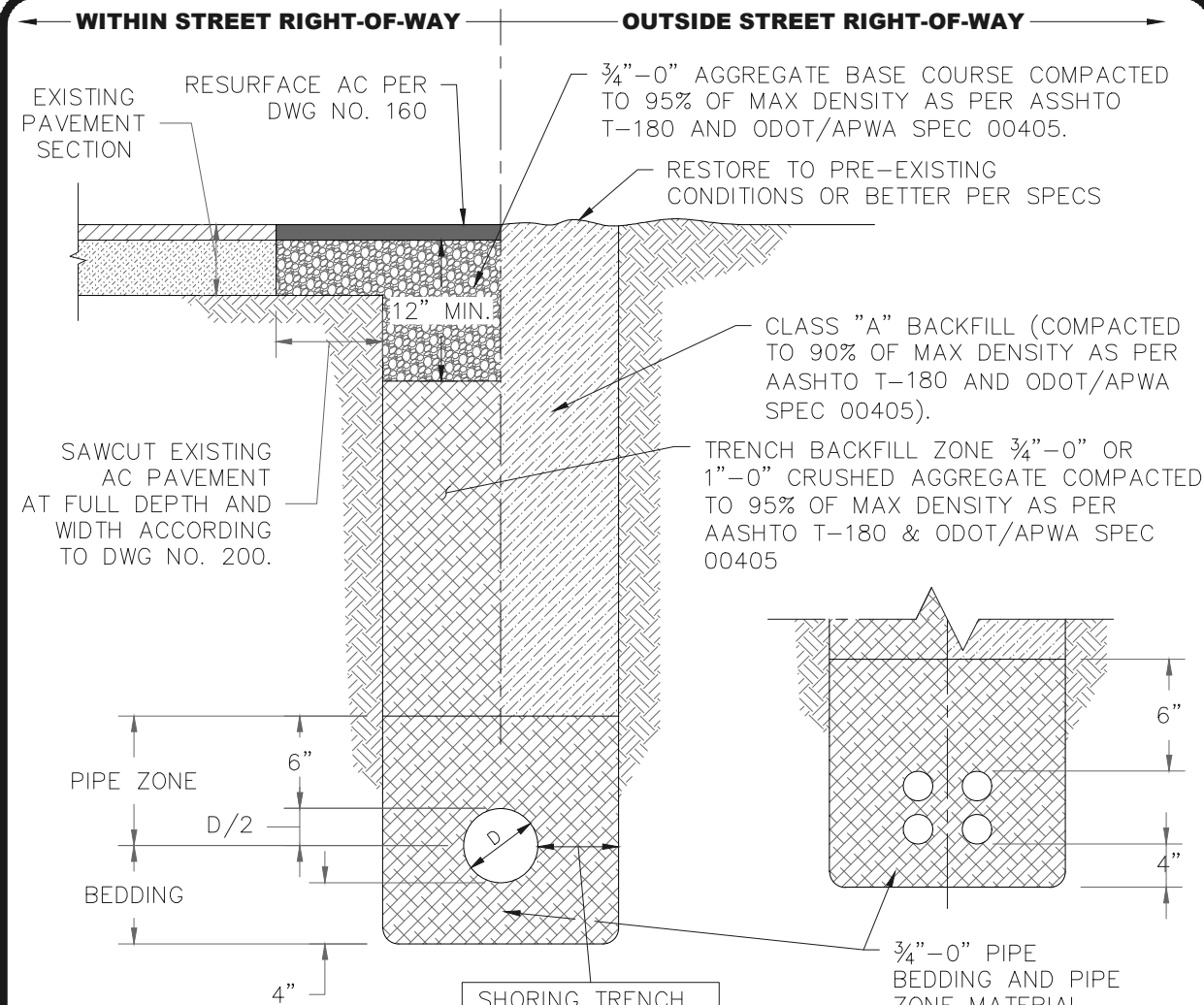


DWG NO: 205

TRENCH RESTORATION
WITH GRANULAR BACKFILL

CITY ENGINEER
CAROL EARLE, P.E.

DATE: 4/1/2019 REVISED BY: PCB/JHH



TRENCH RESTORATION:
GRANULAR BACKFILL
(CROSS-SECTION VIEW)
SCALE = N.T.S.

D (IN.)	TRENCH (IN.)
4-10	9
12-16	12
18-21	16
24-30	18
36-72	24

NOTES:

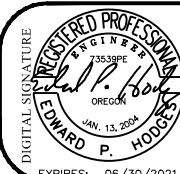
- SAWCUT EDGES TO BE TACKED WITH EMULSIFIED ASPHALT.
- ASPHALT JOINTS SHALL BE SAND SEALED WITH CRS-1 OR CRS-2 EMULSIFIED ASPHALT OR EQUIVALENT.
- CONTROL DENSITY FILL SHALL BE USED ON COLLECTOR AND ARTERIAL STREETS. REFER TO CITY DETAIL 210.

CONDUIT TRENCH PIPE ZONE
(CROSS-SECTION VIEW)
SCALE = N.T.S.



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REVISIONS



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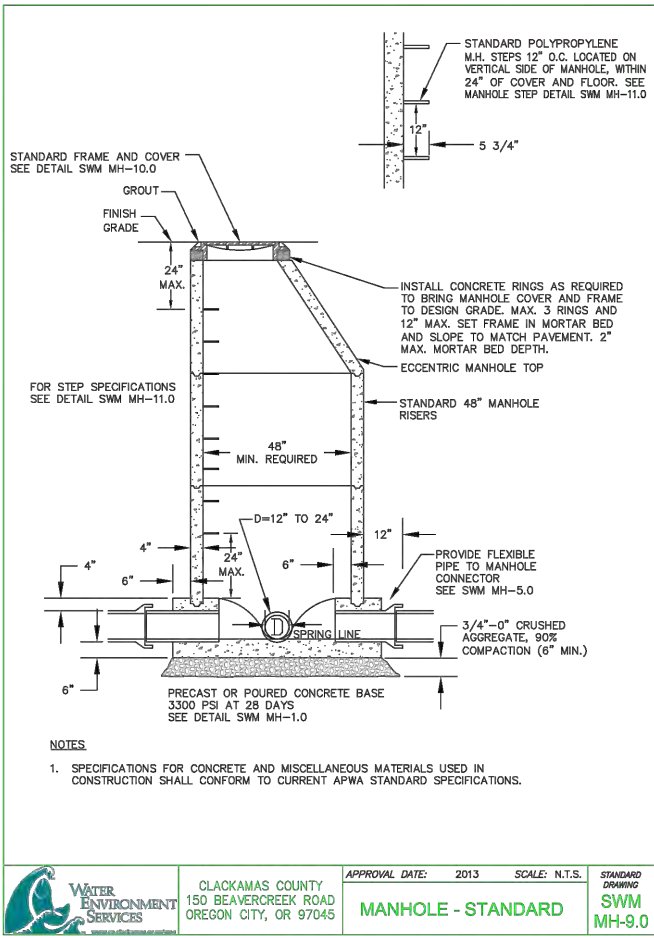
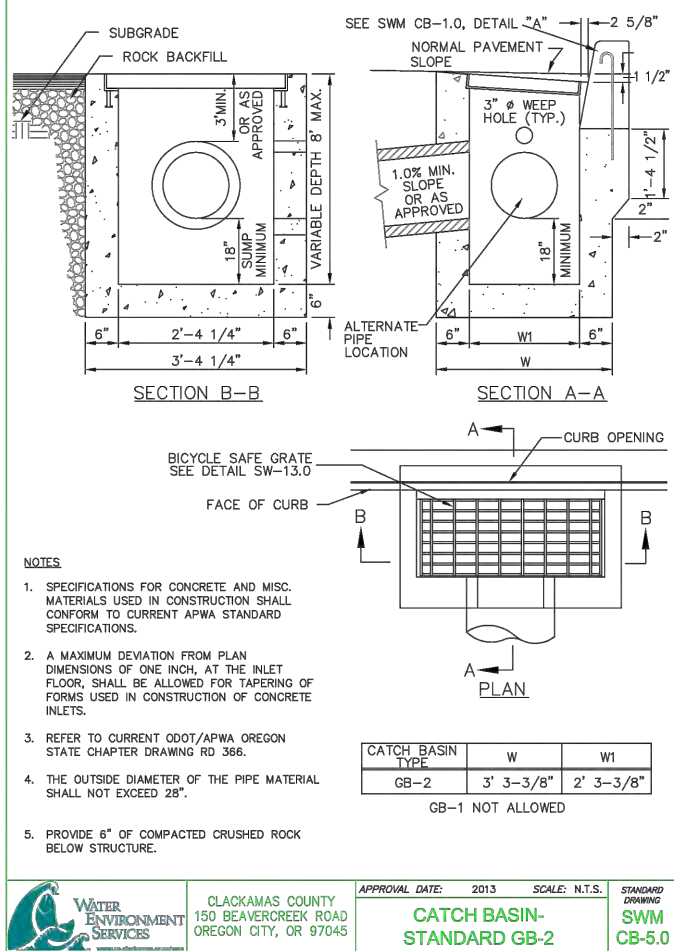
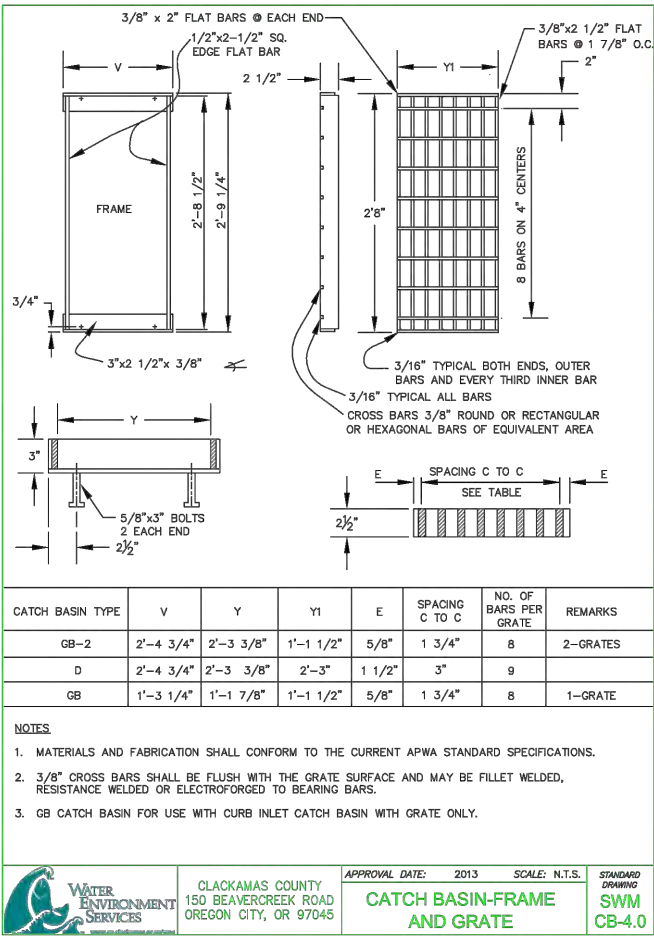
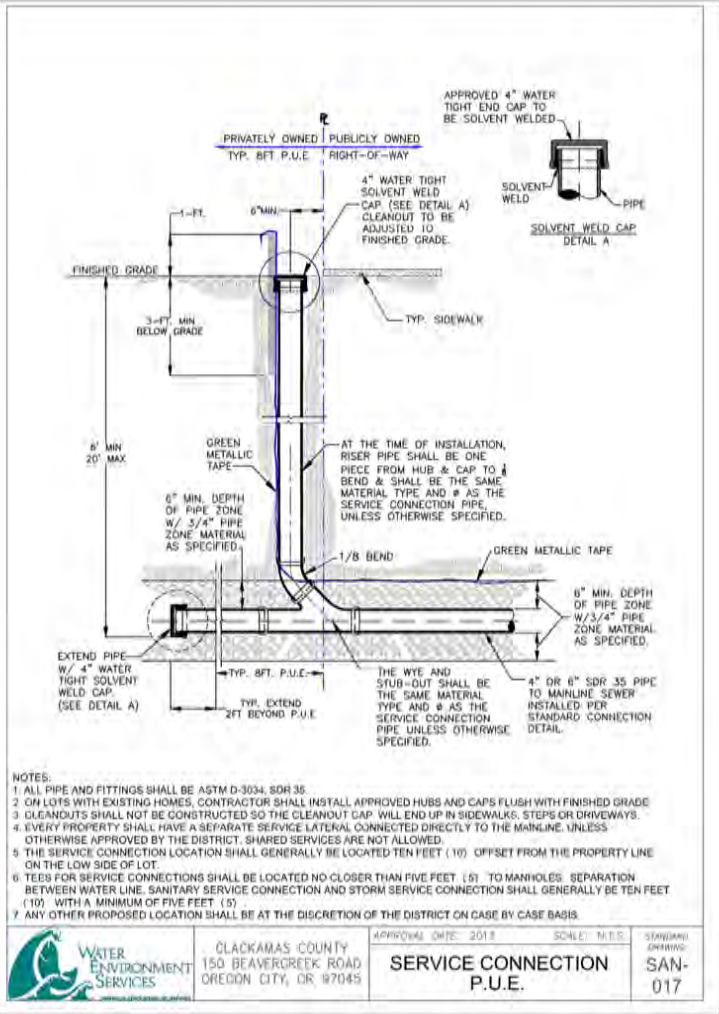
6655 S.W. HAMPTON ST., SUITE 210
PORTLAND, OREGON 97223
PHONE (503) 684-3478

CITY OF HAPPY VALLEY
2020 SUPERBLOCK PEDESTRIAN IMPROVEMENTS - PHASE II
KING ROAD, 132ND AVENUE AND RIDGECREST ROAD
CONSTRUCTION DETAILS

CLACKAMAS COUNTY, OREGON

DATE	SEPT 2020
P/N	1729
D/B	EPH
D/S	JHH/JVB
CAD	729-C39-C40

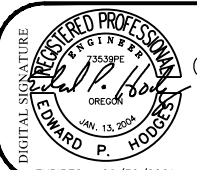
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REV.	DESCRIPTION	REVISED BY	DATE

REVISIONS



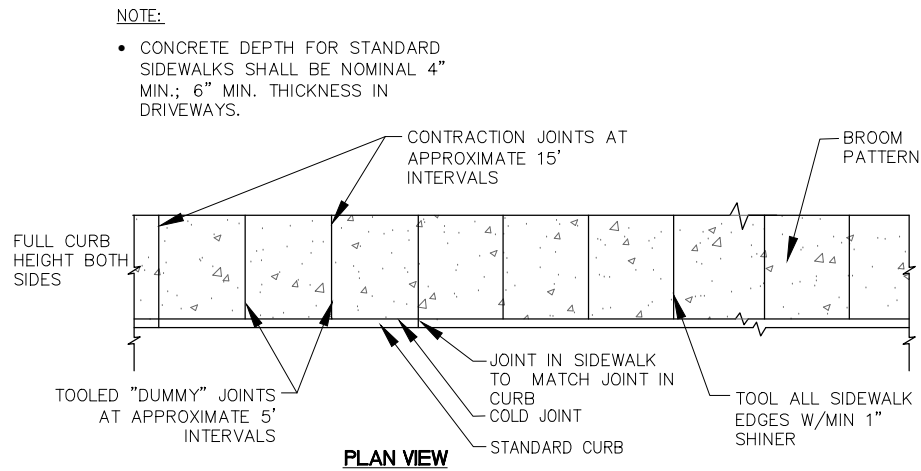
CURRAN-MCLEOD, INC.
CONSULTING ENGINEERS
6655 S.W. HAMPTON ST., SUITE 210
PORTLAND, OREGON 97223
PHONE (503) 684-3478

CITY OF HAPPY VALLEY
2020 SUPERBLOCK PEDESTRIAN IMPROVEMENTS - PHASE II
KING ROAD, 132ND AVENUE AND RIDGECREST ROAD
CONSTRUCTION DETAILS
CLACKAMAS COUNTY, OREGON

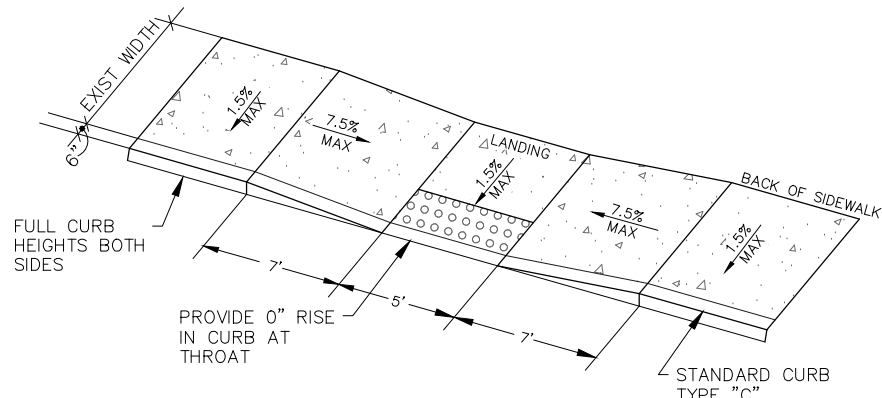
DATE	SEPT 2020
P/N	1729
D/B	EPH
D/S	JVB/JHH
CAD	729-C41-C43

C41
OF
49

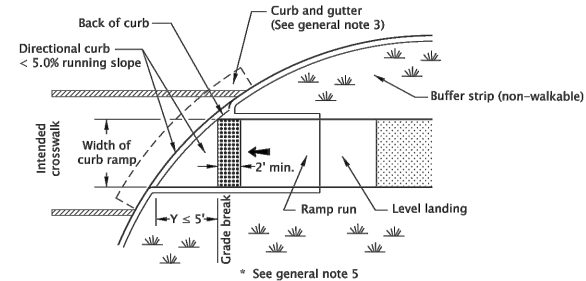
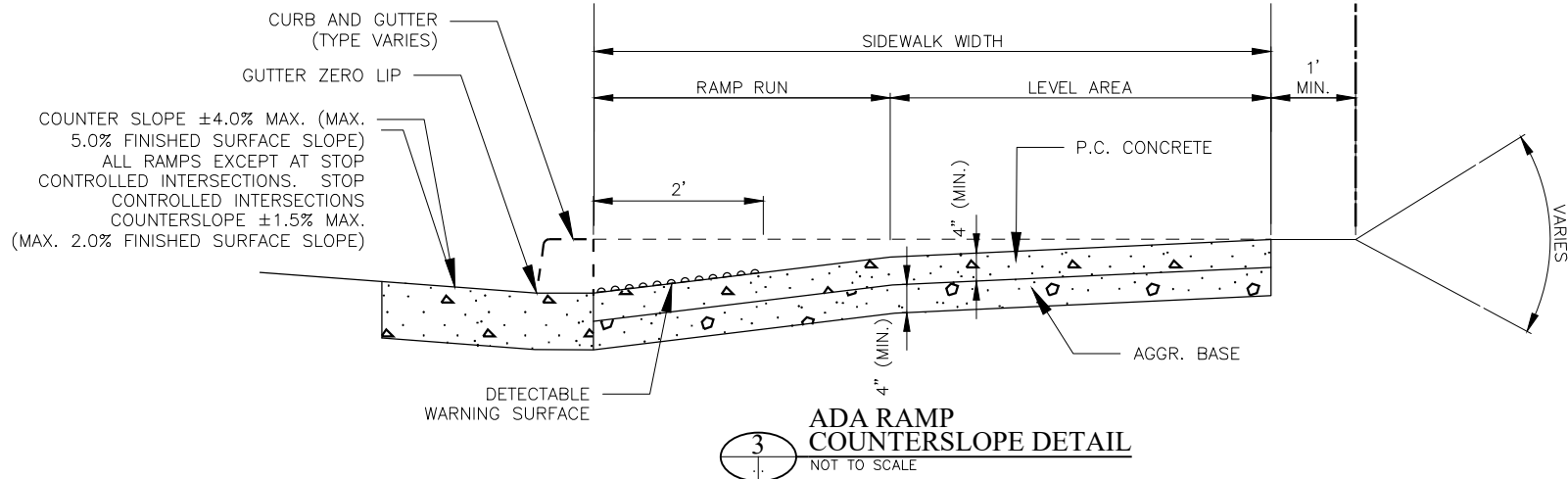
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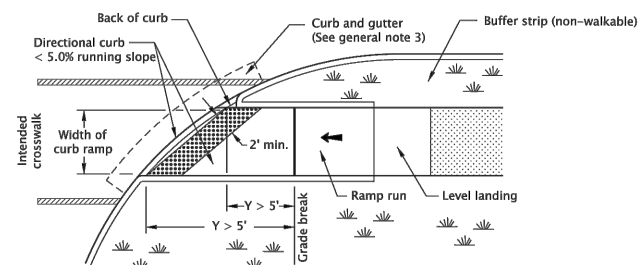
1 TYPICAL SIDEWALK DETAIL
N.T.S.



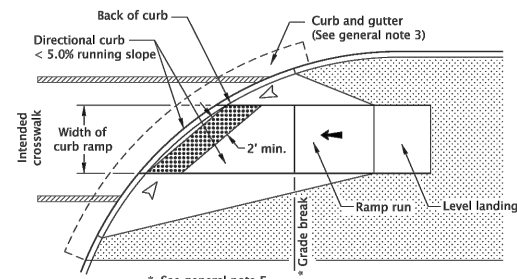
2 MIDBLOCK ADA RAMP
N.T.S.



CURB RAMP CROSSING
GRADE BREAK \leq 5 FT. FROM BACK OF CURB



CURB RAMP CROSSING
GRADE BREAK > 5 FT. FROM BACK OF CURB



CURB RAMP CROSSING
DIRECTIONAL CURB WITH FLARED CONSTRUCTION

GENERAL NOTES FOR ALL DETAILS ON THIS SHEET:

- Detectable warning surface details & locations are based on applicable ODOT Standards.
- See project plans for details not shown. See Std. Dwg. RD700 & RD701 for curbs. See Std. Dwg. RD902 for detectable warning surface installation details.
- On or along state highways, curb and gutter is required at curb ramps.
- Detectable warning surface placement for perpendicular ramps vary as shown.
- Detectable warning surface placement across the grade break is prohibited.

LEGEND:

- Marked or intended crossing location
- Sidewalk
- Detectable warning surface
- Running slope 7.5% max. (Max. 8.3% finished surface slope)
- Flare slope (Max. 10.0% finished surface slope)

CALC. BOOK NO. N/A

SDR DATE 20-JULY-2020

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
DETECTABLE WARNING SURFACE
PLACEMENT FOR
DIRECTIONAL CURBS

DATE	REVISION	DESCRIPTION
07-2020	DRAWING CREATED	

4 END OF WALK - ADA RAMP
N.T.S.

Effective Date: December 1, 2020 - May 31, 2021

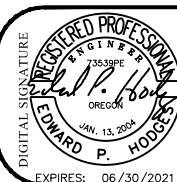
RD905



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REVISIONS



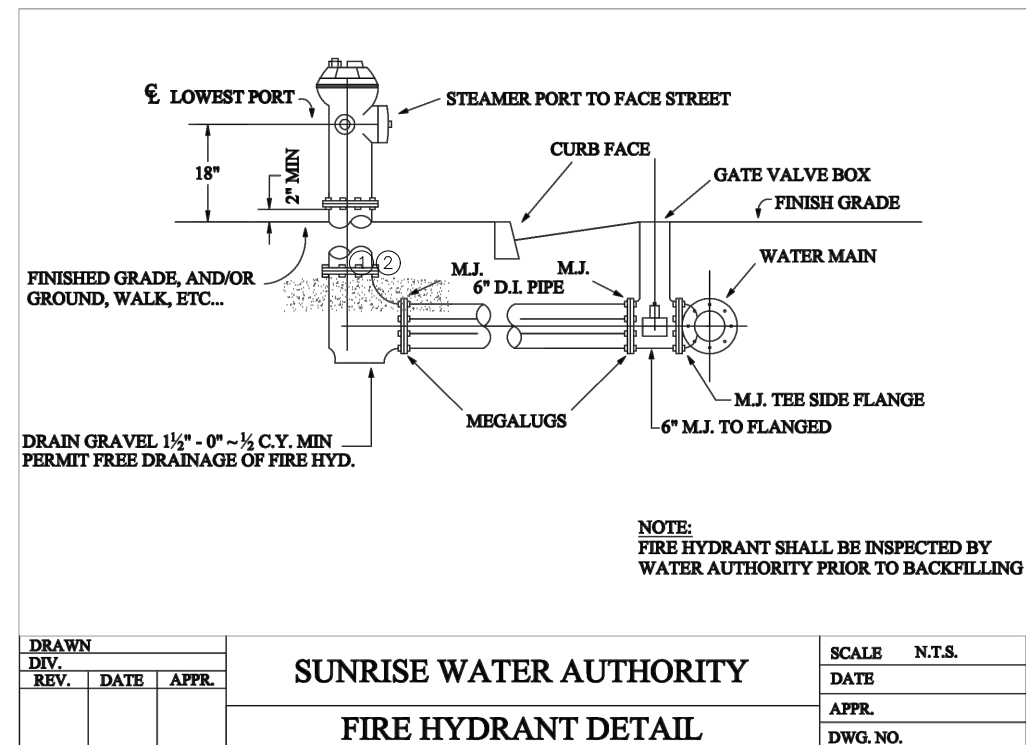
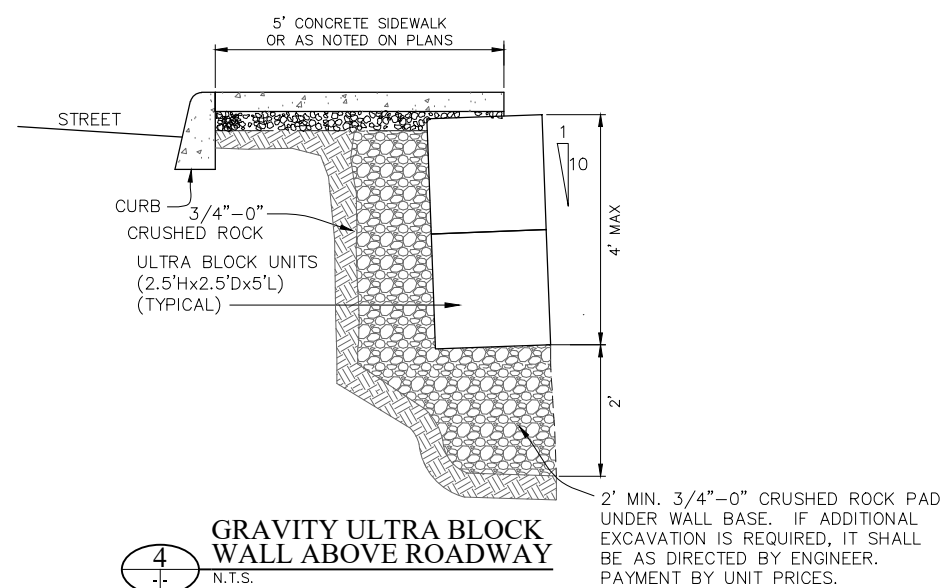
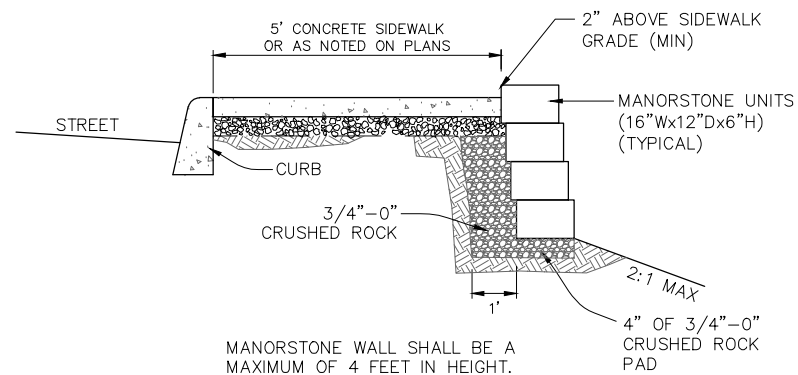
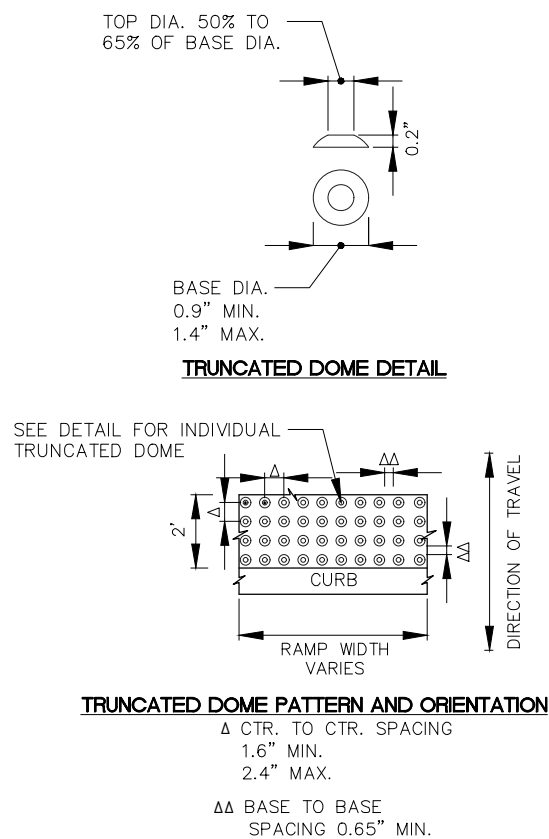
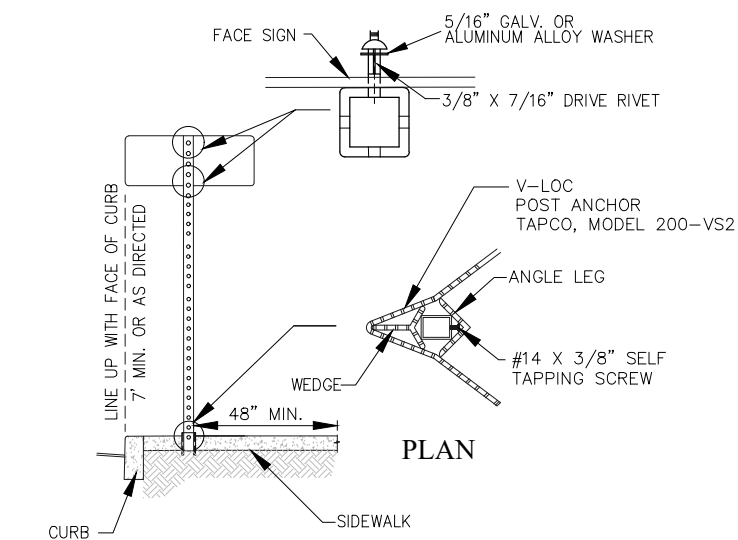
CURRAN-MCLEOD, INC.
CONSULTING ENGINEERS

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PORTLAND, OREGON 97223
PHONE (503) 684-3478

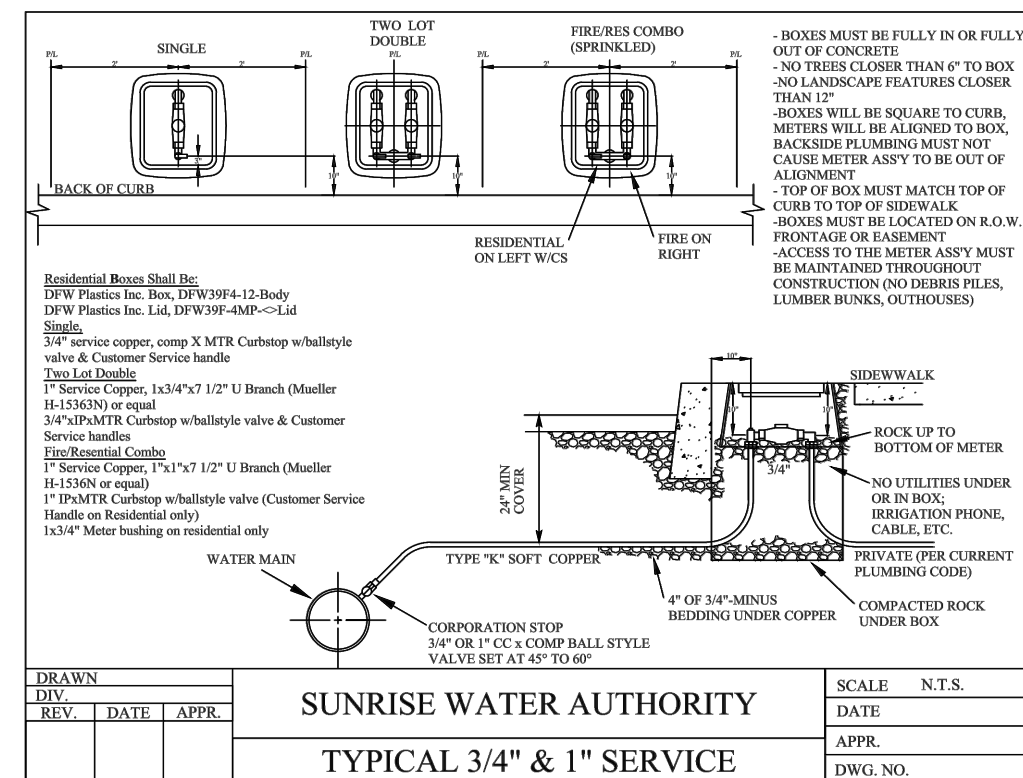
CITY OF HAPPY VALLEY
2020 SUPERBLOCK PEDESTRIAN IMPROVEMENTS - PHASE II
KING ROAD, 132ND AVENUE AND RIDGECREST ROAD
CONSTRUCTION DETAILS

CLACKAMAS COUNTY, OREGON

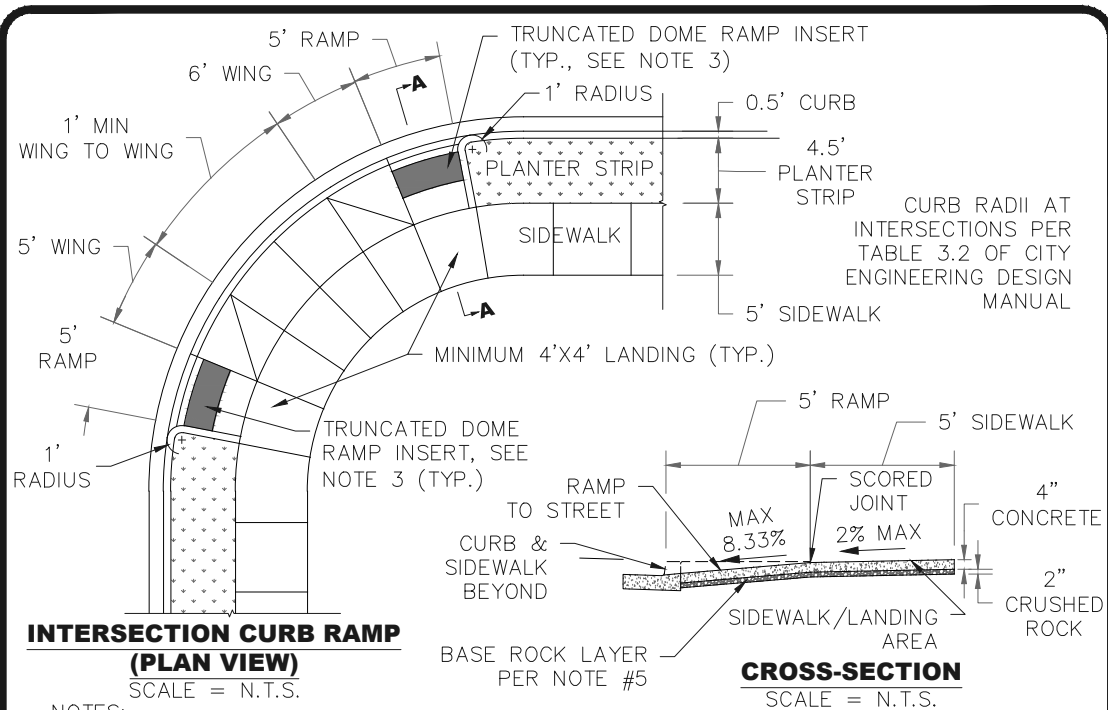
DATE	SEPT 2020
P/N	1729
D/B	EPH
D/S	JHH/JVB
CAD	729-C41-C43



- ① HYDRANT TO BE LOCATED AT BACK OF SIDEWALK OR BEHIND SIDEWALK IF POSSIBLE.
- ② HYDRANT RELOCATION AND REINSTALLATION BY SWA. CONTRACTOR TO COORDINATE WITH SWA AS REQUIRED.



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NOTES:

1. PROJECT ENGINEER SHALL USE THIS DRAWING AS A GUIDE FOR DESIGNING RAMPS AND SHALL PREPARE A SITE SPECIFIC DRAWING FOR EACH RAMP.
2. SIDEWALK RAMP SHALL MEET CURRENT ADA STANDARDS. CONSTRUCT ALL RAMPS PERPENDICULAR TO THE CURB. CITY TO INSPECT FORMS PRIOR TO POUR.
3. DETECTABLE WARNING SHALL BE TRUNCATED DOME TYPE, 24" LONG IN DIRECTION OF TRAVEL AND FULL WIDTH OF RAMP, WITH DOMES ALIGNED ON A SQUARE GRID WITH ITS GRIDLINES PARALLEL AND PERPENDICULAR TO THE CENTERLINE OF THE RAMP. COLOR OF DETECTABLE WARNING SURFACE SHALL BE YELLOW AND CONTRAST FROM ADJACENT SURFACE.
4. CURB INLET OR CATCH BASIN SHALL NOT BE ALLOWED IN FRONT OF RAMP.
5. CONCRETE SHALL BE 4" THICK LAYER OF COMMERCIAL MIX WITH A 28 DAY COMPRESSIVE STRENGTH OF 3300 PSI AND SHALL MEET ALL REQUIREMENTS FROM ODOT SECTION 00440, OVER 2" LAYER OF 3/4"-0" BASE ROCK COMPACTED TO 95% MAX. DENSITY PER AASHTO T-180.
6. SCORE CONCRETE AT GRADE CHANGES, SURFACE TEXTURE CHANGES AND AT ALL OTHER POINTS SHOWN.
7. CONCRETE SURFACE SHALL HAVE BROOM FINISH, AND EDGE ALL JOINTS.



CITY OF HAPPY VALLEY
ENGINEERING DIVISION
16000 SE MISTY DRIVE
HAPPY VALLEY, OR 97086

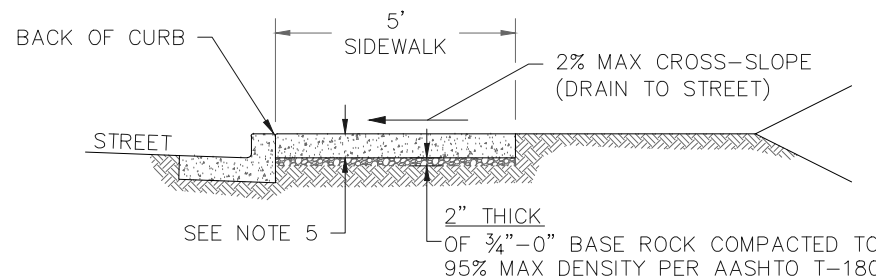
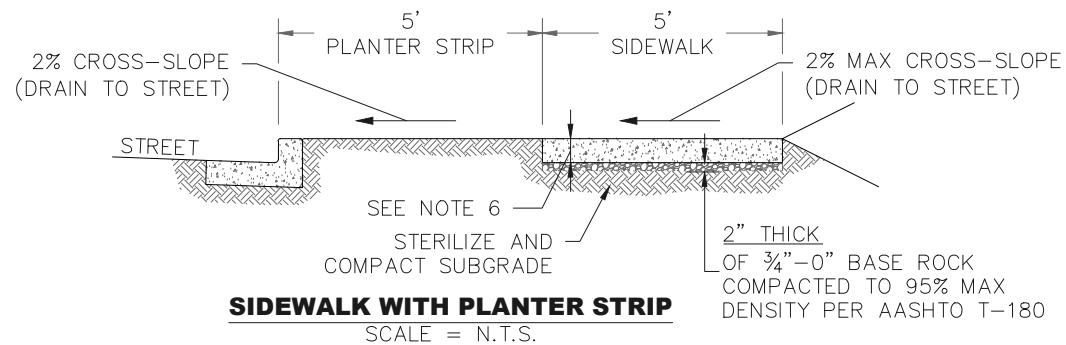
DWG NO: 245

CITY ENGINEER
CAROL EARLE, P.E.

CURB RAMPS

DATE: 4/1/2019

REVISED BY: PCB/JHH



NOTES:

1. CONCRETE SHALL BE A COMMERCIAL MIX WITH A 28 DAY COMPRESSIVE STRENGTH OF 3300 PSI AND SHALL MEET ALL REQUIREMENTS FROM ODOT SECTION 00440.
2. SIDEWALK PANELS TO BE SQUARE (5' LONG x 5' WIDE TYP.).
4. EXPANSION JOINT MATERIAL SHALL BE PREFORMED FILLER NOT LESS THAN 1/2" WIDE AND SHALL MEET ALL REQUIREMENTS FROM ODOT SECTION 00759.
5. FOR SIDEWALKS ADJACENT TO THE CURB AND POURED AT THE SAME TIME AS THE CURB, THE JOINT BETWEEN THEM SHALL BE A TROWELED JOINT WITH A MINIMUM 1/2" RADIUS.
6. SIDEWALKS SHALL HAVE A MINIMUM THICKNESS OF 6" IF MOUNTABLE CURB IS USED, OR IF SIDEWALK IS INTENDED AS A PORTION OF A DRIVEWAY. OTHERWISE SIDEWALK SHALL HAVE A MINIMUM THICKNESS OF 4".
7. CONCRETE SHALL HAVE A BROOM FINISH, ALL JOINTS SHALL BE EDGED.
8. WIDTH OF PLANTER STRIP IS MEASURED FROM FACE OF CURB. WIDTH OF A CURB-TIGHT SIDEWALK IS MEASURED FROM BACK OF CURB.



CITY OF HAPPY VALLEY
ENGINEERING DIVISION
16000 SE MISTY DRIVE
HAPPY VALLEY, OR 97086

DWG NO: 250

CITY ENGINEER
CAROL EARLE, P.E.

SIDEWALK

DATE: 4/1/2019

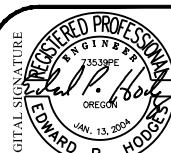
REVISED BY: PCB/JHH



BAR IS ONE INCH ON
ORIGINAL DRAWING.
ADJUST SCALE
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ACCORDINGLY.

REV.	DESCRIPTION	REVISED BY	DATE

REVISIONS



CURRAN-McLEOD, INC.
CONSULTING ENGINEERS

6655 S.W. HAMPTON ST., SUITE 210
PORTLAND, OREGON 97223
PHONE (503) 684-3478

CITY OF HAPPY VALLEY
2020 SUPERBLOCK PEDESTRIAN IMPROVEMENTS - PHASE II
KING ROAD, 132ND AVENUE AND RIDGECREST ROAD
SE KING RD
CURB RAMPS AND SIDEWALK DETAILS

CLACKAMAS COUNTY, OREGON

DATE	SEPT 2020
P.N.	1729
D/B	EPH
D/S	JVB/JHH
C44	729-C44-C45

C44
OF
49



R7-1L



NO PARKING ANYTIME

SCALE: N.T.S.



R7-1B



NO PARKING ANYTIME

SCALE: N.T.S.



OBW 1-9
(36" X 36")

BIKE LANE ENDS
SIGN OR 1-9 SIGN

SCALE: N.T.S.

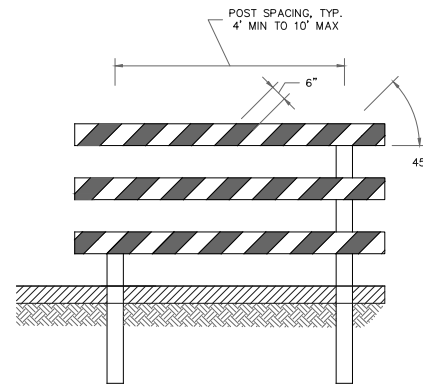


(12" X 18")



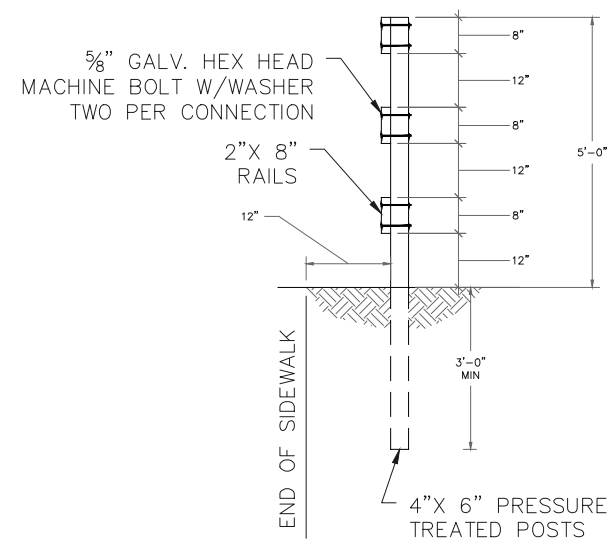
BIKE LANE AHEAD

SCALE: N.T.S.



END OF SIDEWALK BARRICADE

SCALE = N.T.S.



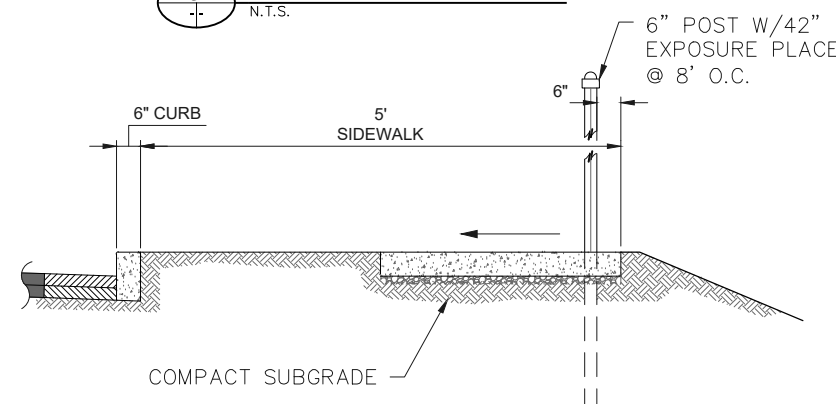
SIDEWALK BARRICADE CROSS-SECTION

SCALE = N.T.S.



SIDEWALK BARRICADE

N.T.S.

SE RIDGECREST RD
SIDEWALK AND FENCE SECTION

N.T.S.

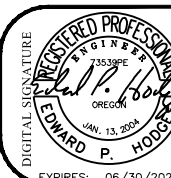


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CITY OF HAPPY VALLEY
2020 SUPERBLOCK PEDESTRIAN IMPROVEMENTS - PHASE II
KING ROAD, 132ND AVENUE AND RIDGECREST ROAD

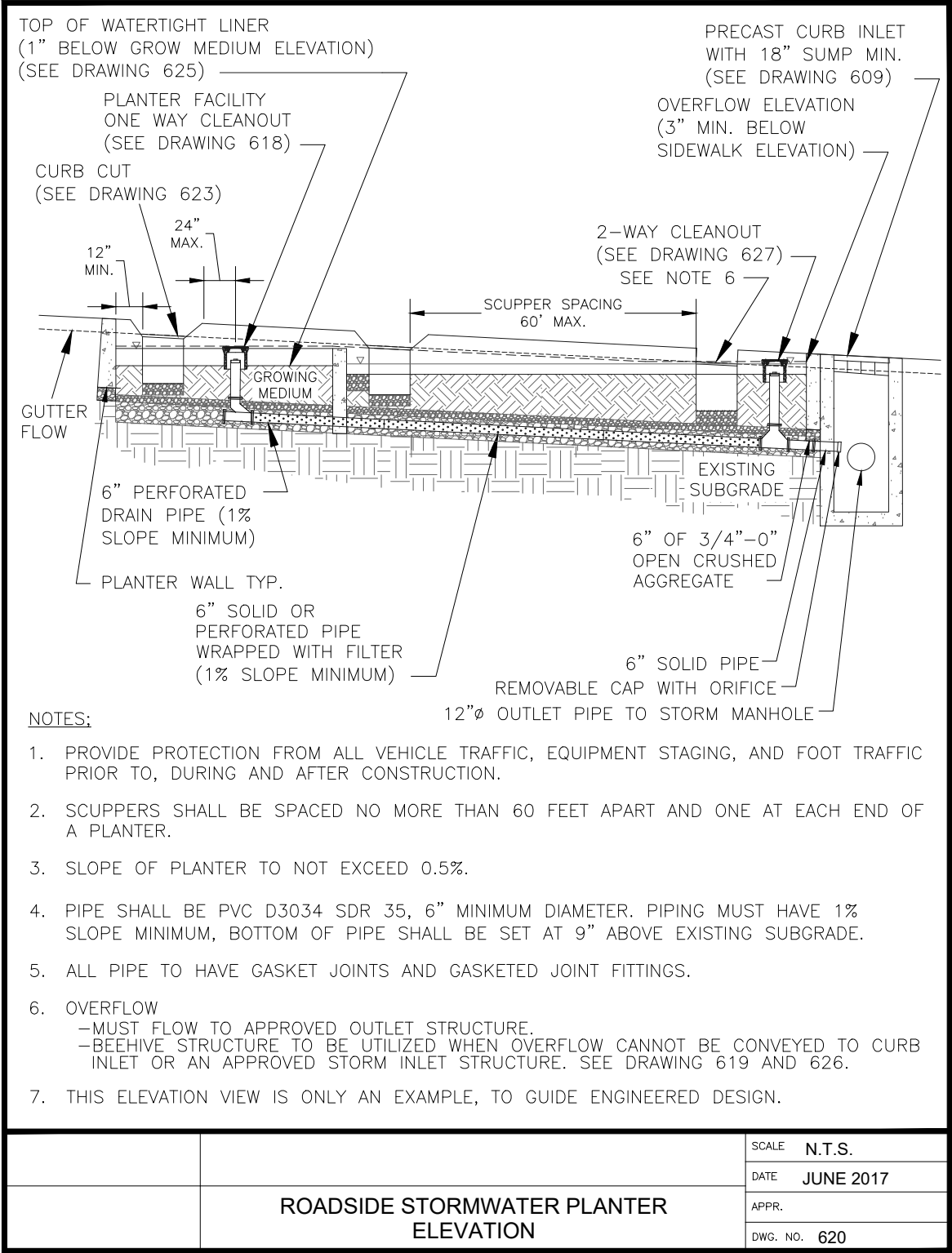
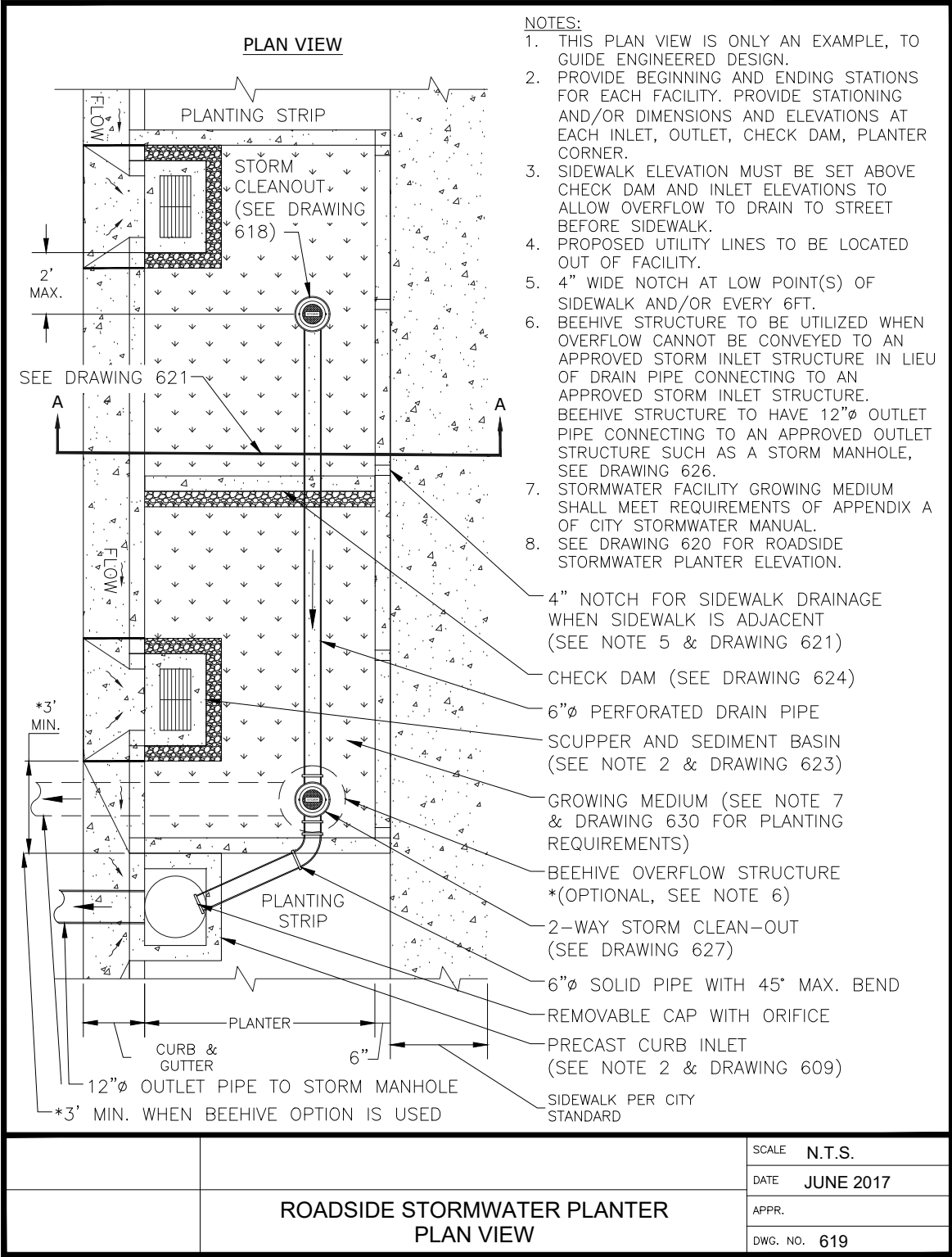
SE KING RD
CURB RAMPS AND SIDEWALK DETAILS

CLACKAMAS COUNTY, OREGON

DATE	SEPT 2020
P/N	1729
D/B	EPH
D/S	JVB/JHH
CAL#	1729-C44-C45

C45
OF
49

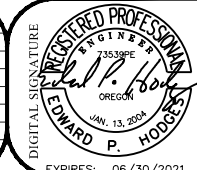
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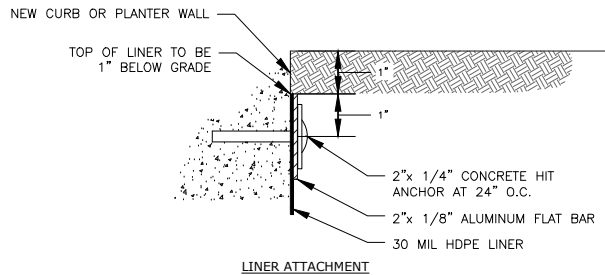
CITY OF HAPPY VALLEY
2020 SUPERBLOCK PEDESTRIAN IMPROVEMENTS - PHASE II
KING ROAD, 132ND AVENUE AND RIDGECREST ROAD
SE KING RD
CONSTRUCTION DETAILS
CLACKAMAS COUNTY, OREGON

DATE	SEPT 2020
P.N.	1729
D/B	EPH
D/S	JVB/JHH
CD	1729-C46-C49

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CONSTRUCTION NOTES

1. ADHERE LINER TO CONCRETE W/SEALANT IF RECOMMENDED BY LINER MANUFACTURE.
2. SECURE LINER TO CONCRETE WITH 2" ALUMINUM FLAT BAR, PLACED AS DIRECTED.
3. ATTACH FLAT BAR WITH CONCRETE HIT ANCHORS, 24" O.C.
4. TRIM EXCESS LINER TO THE TOP OF THE FLAT BAR.
5. ATTACHING LINER TO MINIMIZE WRINKLES, CORNERS SHOULD BE CUT TO FIT WITHOUT WRINKLES.
6. LINER TO BEGIN 1" BELOW GRADE AND EXTEND DOWN TO SUBGRADE.

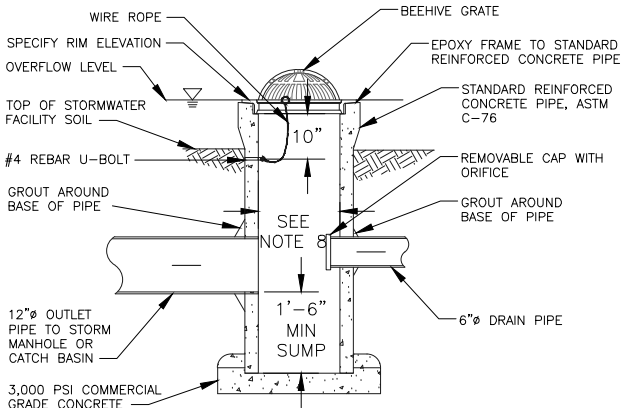


NOTES:

1. LINER MATERIALS TO BE HDPE LINER TO EXTEND FROM TOP OF 2" FLAT BAR TO SUBGRADE.
2. IN AREAS WITH CONTAMINATED SOILS THE FACILITY MUST BE COMPLETELY LINED WITH A 30 MIL LINER UNLESS FACILITY'S BOTTOM AND SIDES ARE MONOLITHIC CONCRETE.
3. PIPE BOOT: USE SEALANT OR STAINLESS STEEL BANDS TO ADHERE LINER TO PIPING, OR OTHER METHOD AS APPROVED BY THE CITY ENGINEER.

WATERPROOF LINER ATTACHMENT
AND PIPE BOOT

SCALE N.T.S.
DATE JUNE 2017
APPR.
DWG. NO. 625

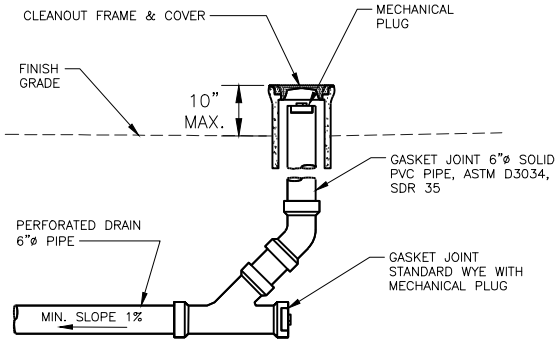


NOTES

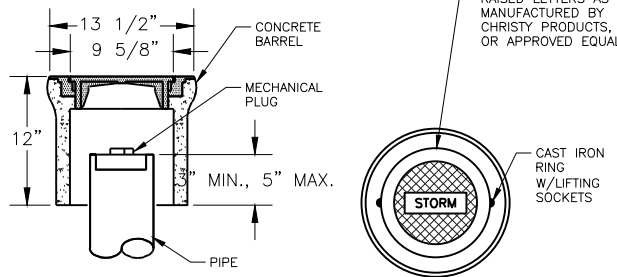
1. THIS CROSS-SECTIONAL VIEW IS ONLY AN EXAMPLE, ORIENTATION OF INLET AND OUTLET PIPES DEPENDS ON ENGINEERED DESIGN.
2. SECURE GRATE IN PLACE WITH 54" OF WIRE ROPE. LOOP ENDS OF WIRE ROPE AROUND U-BOLT AND GRATE. CRIMP EACH END OF WIRE ROPE WITH 3" OVERLAP.
3. DRILL 2" DEEP HOLES INTO PIPE AND EPOXY #4 REBAR U-BOLT (2"x 4") IN HOLES.
4. GRATE TO BE CAST IRON, ASTM A48 CL30.
5. BEEHIVE RIM ELEVATION TO BE 2" BELOW GUTTER FLOW ELEVATION.
6. WIRE ROPE BETWEEN 1/8"-3/16" DIAMETER, STAINLESS STEEL, 7 STRANDS OF 19 WIRES.
7. INVERT ELEVATION OF INLET PIPE MUST BE NO LOWER THAN INVERT ELEVATION OF OUTLET PIPE.
8. MINIMUM 18" I.D., MAXIMUM 24" I.D.

BEEHIVE OVERFLOW STRUCTURE

SCALE N.T.S.
DATE JUNE 2017
APPR.
DWG. NO. 626

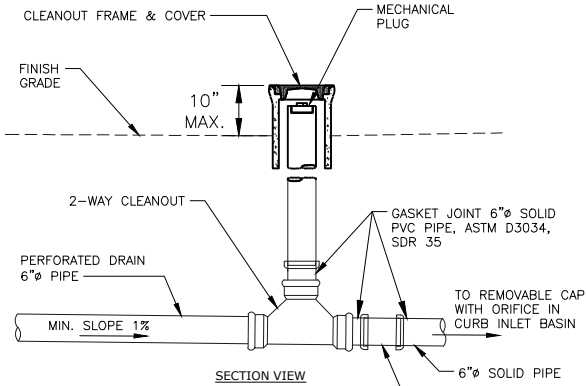


SECTION VIEW

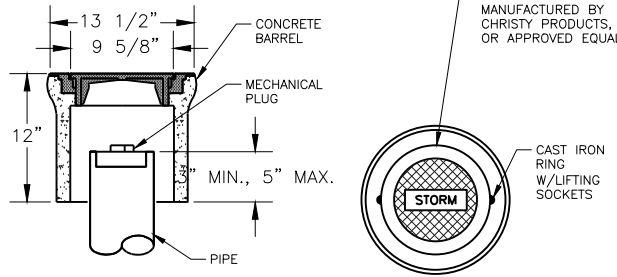


STORMWATER PLANTER FACILITY
ONE-WAY CLEANOUT

SCALE N.T.S.
DATE JUNE 2017
APPR.
DWG. NO. 618

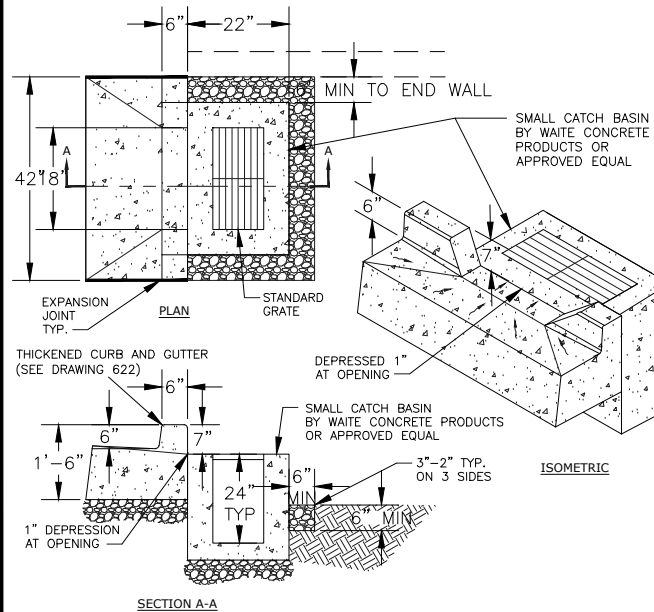


SECTION VIEW



STORMWATER PLANTER FACILITY
2-WAY CLEANOUT

SCALE N.T.S.
DATE JUNE 2017
APPR.
DWG. NO. 627

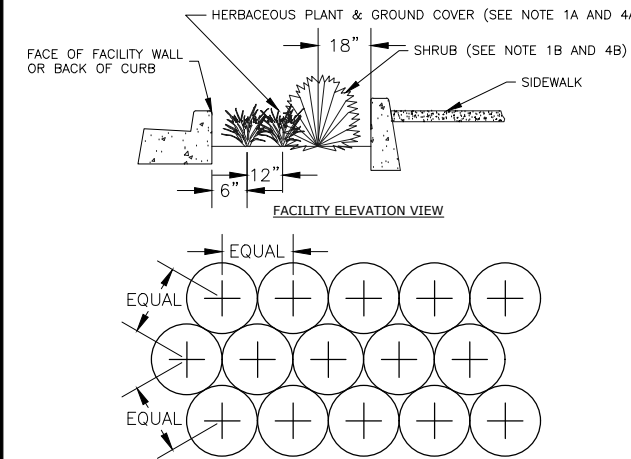


NOTES:

1. MATCH GUTTER PAN OF ADJACENT CURB AND GUTTER.
2. CATCH BASIN RIM SHALL BE LEVEL WITH DEPRESSED GUTTER ELEVATION.
3. CATCH BASIN SHALL BE PRECAST CONCRETE, INCLUDING BOTTOM.

CURB CUT SCUPPER AND
SEDIMENT CATCH BASIN

SCALE N.T.S.
DATE JUNE 2017
APPR.
DWG. NO. 623



NOTES:

1. REFER TO PLANTING REQUIREMENTS IN APPENDIX A.
A. HERBACEOUS PLANTS AND GROUNDCOVERS THAT REQUIRE MORE THAN 12" ON CENTER (O.C.) SPACING ARE PROHIBITED.
B. ONLY SMALL SHRUBS (NO MORE THAN 3' POTENTIAL HEIGHT) THAT REQUIRE NO MORE THAN 24" O.C. SPACING SHALL BE ALLOWED.
2. ALL PLANTS SHALL BE PLANTED AT EQUAL TRIANGULAR SPACING ON CENTER. INTERIOR PLANT SPACING MAY BE SLIGHTLY ADJUSTED TO ACHIEVE DESIRED EDGE SETBACKS.
3. PLANTING DENSITY SHALL AVERAGE NO LESS THAN 90 TO 115 PLANTS FOR EVERY 100 SQUARE FEET, DEPENDING ON PLANTING DIVERSITY.
4. PLANTS SHALL BE LOCATED SET BACK FROM FACILITY EDGES AS FOLLOWS:
A. HERBACEOUS PLANTS AND GROUNDCOVERS: 6" FROM CENTER OF PLANT TO FACE OF FACILITY WALL, BACK OF CURB OR SIDEWALK EDGE.
B. SHRUBS: 18" FROM CENTER OF PLANT TO FACE OF FACILITY WALL, BACK OF CURB OR SIDEWALK EDGE AND 24" O.C. FROM SHRUB TO SHRUB.

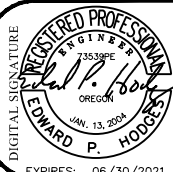
ROADSIDE STORMWATER PLANTER
PLANT SPACING

SCALE N.T.S.
DATE JUNE 2017
APPR.
DWG. NO. 630



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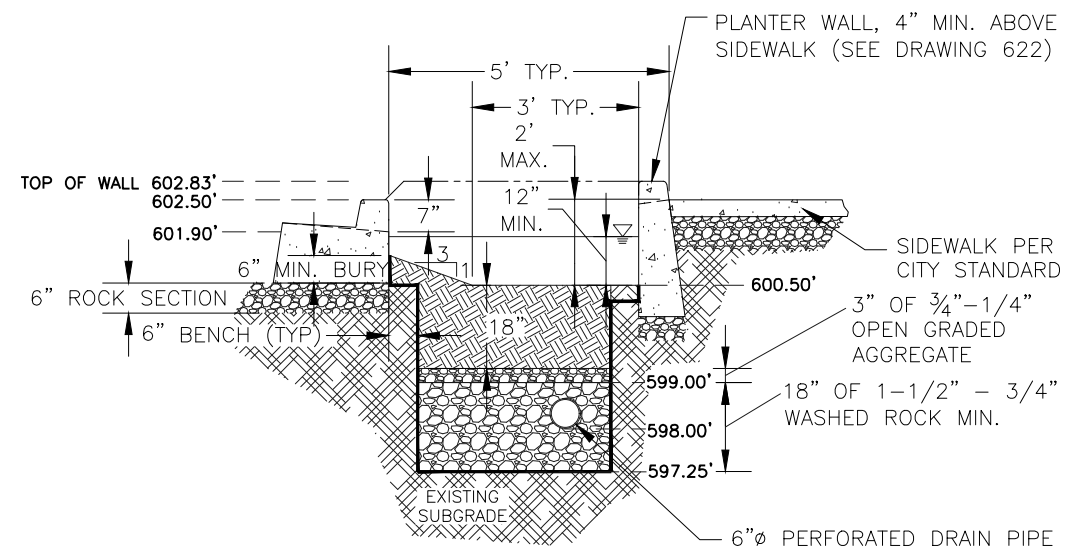
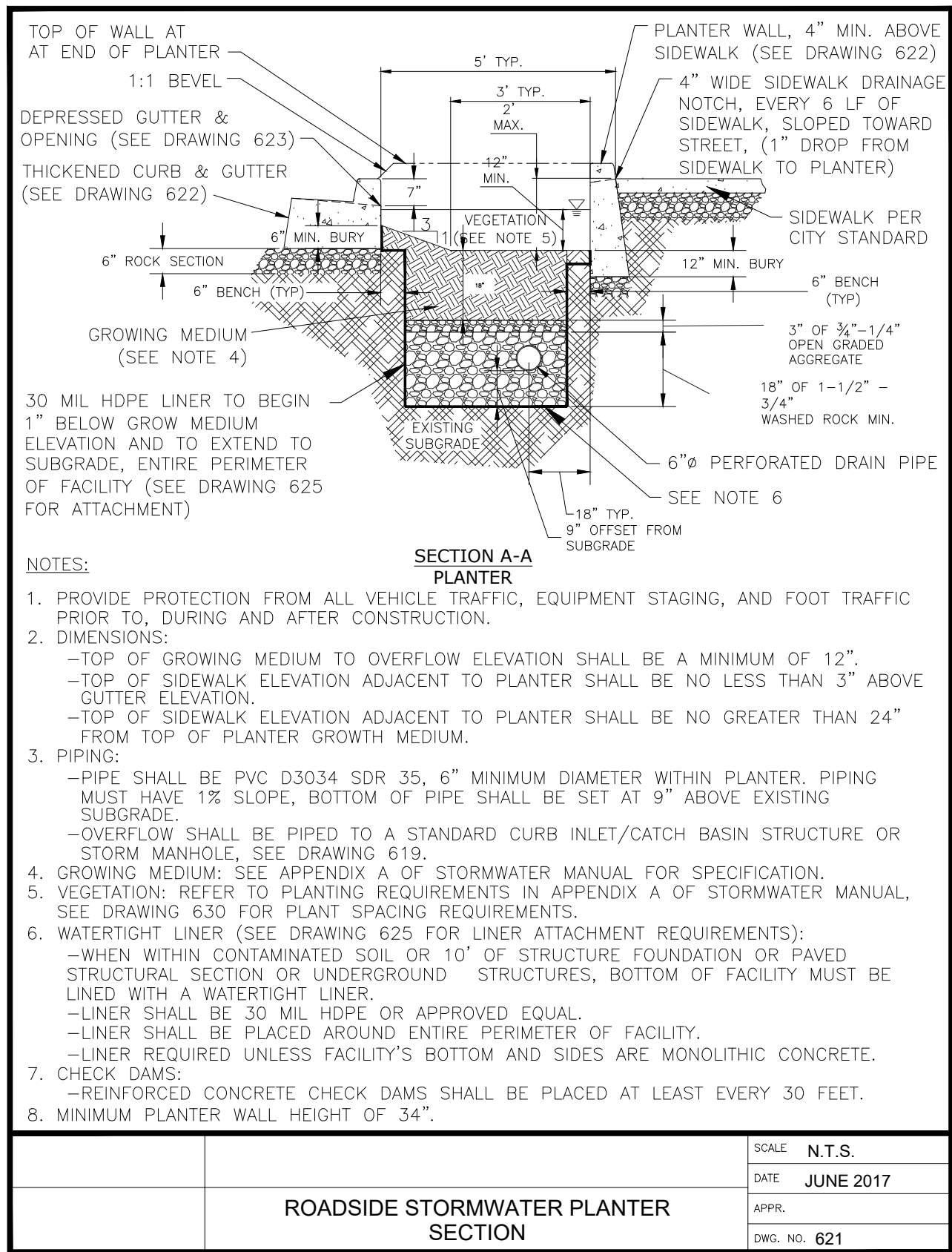
CITY OF HAPPY VALLEY
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CLACKAMAS COUNTY, OREGON

DATE SEPT 2020
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C47
OF
49

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**ROADSIDE STORMWATER
PLANTER NO. 1 SECTION - STA: 28+00**

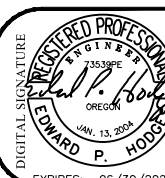
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SCALE: N.T.S.



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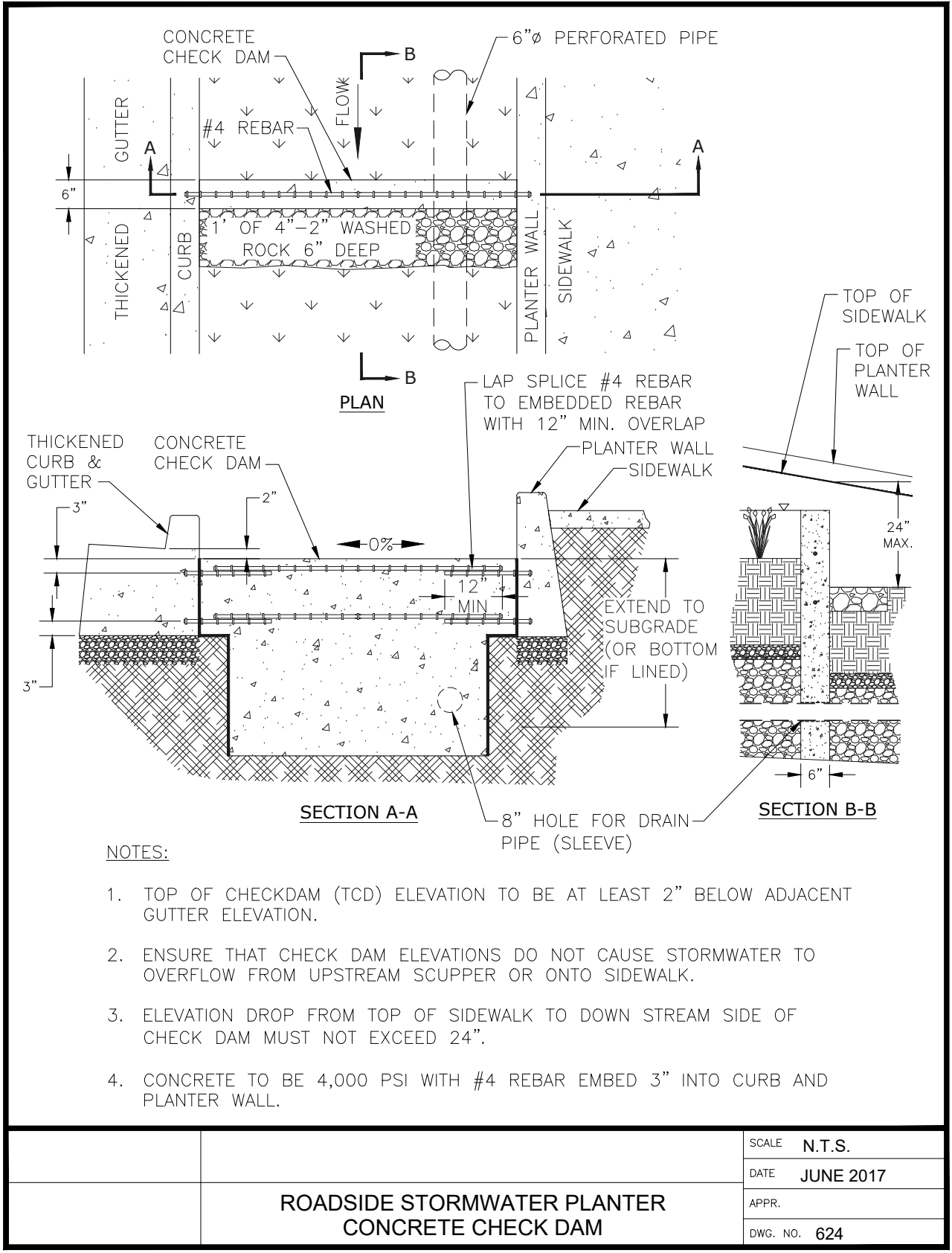
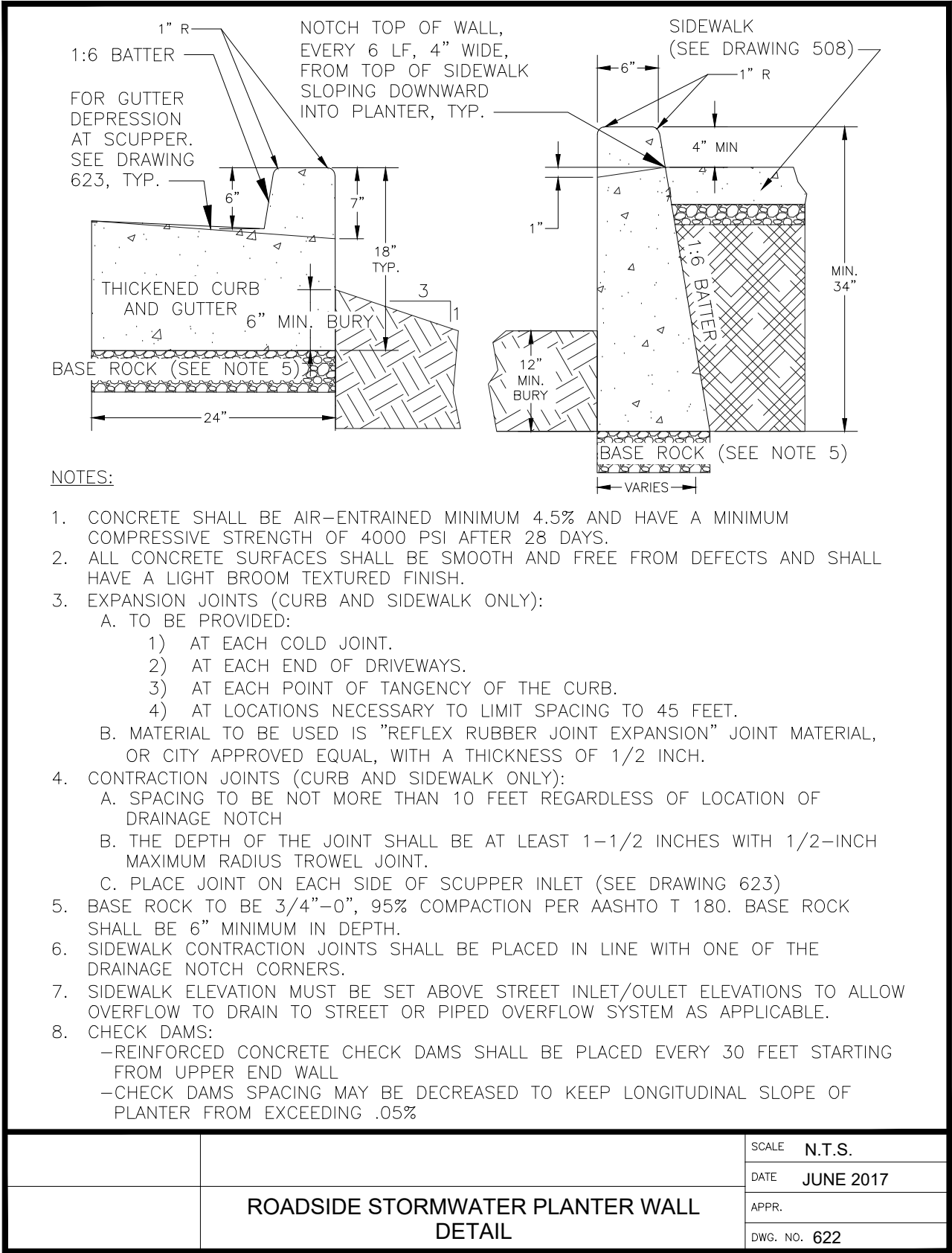
**SE KING RD
CONSTRUCTION DETAILS**

CLACKAMAS COUNTY, OREGON

DATE	SEPT 2020
P.N.	1729
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C48
OF
49

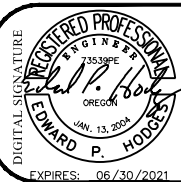
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