

ADVERTISEMENT FOR BIDS

CITY OF PORT ORCHARD POTTERY AVE NON-MOTORIZED IMPROVEMENTS PROJECT NO. PW2023-002

Notice is hereby given that sealed bids will be received at the office of the City Clerk for the City of Port Orchard, 216 Prospect Street, Port Orchard, WA 98366 until **1:00 PM on February 8th, 2024**, for construction of the **Pottery Ave Non-Motorized Improvements**, Project No **PW2023-002**. No proposals will be accepted after the above-stated time. Immediately following the above-stated time, the proposals will be publicly opened and read.

The project consists of work to be performed within 125 working days from notice to proceed, and consists of furnishing all materials, equipment, tools, labor, and other work or items incidental theretofore and as generally described as follows:

Non-motorized improvements along Pottery Ave including installation of sidewalks, rectangular rapid flashing beacons (RRFBs), buffered bike lanes, and rechannelization. Installation of new drainage structures and conveyance systems. Replacement of existing water main. Installation of new sewer mains and structures. Roadway patching and repair.

The Engineer's construction estimate for this project is \$1,860,000.

Access to bidding information (plans, specifications, addenda, and Bidders List) is available through City of Port Orchard's on-line plan room www.portorchardwa.gov/bids-and-proposals/.

Free-of-charge access is provided to Prime Bidders, Subcontractors, and Vendors by going to www.bxwa.com and clicking on "Posted Projects," "Public Works," and "City of Port Orchard." This on-line plan room provides Bidders with fully usable online documents with the ability to: download, view, print, order full/partial plan sets from numerous reprographic sources, and a free online digitizer/take-off tool. It is recommended that Bidders "Register" in order to receive automatic email notification of future addenda and to place themselves on the "Self-Registered Bidders List." Bidders that do not register will not be automatically notified of addenda and will need to periodically check the on-line plan room for addenda issued on this project. Contact Builders Exchange of Washington at 425-258-1303 should you require assistance.

If you do not have access to the Web, you may make arrangements to pick up a plan set at the Port Orchard City Hall, City Clerk's Office, 216 Prospect Street, Port Orchard, WA 98366, 360-876-4407, for a NON-REFUNDABLE fee of \$50.00. If you wish the bid documents mailed to you, add \$10.00 to cover postage. Informational copies of any available maps, plans, specifications, and subsurface information are on file for inspection in the office of the Port Orchard Project Engineer, 216 Prospect Street, Port Orchard, WA 98366.

All bid proposals shall be accompanied by a bid security (bid deposit) in the form of a cash deposit, certified or cashier's check, postal money order, or surety bond made payable to the City of Port Orchard, for a sum not less than five percent (5%) of the amount of such bid, including sales tax. Should the successful bidder fail to enter into such contract and furnish satisfactory payment and performance bonds within the time stated in the Specifications, the bid security (bid deposit/bond) shall be forfeited to the City of Port Orchard.

The award of the Contract will go to the qualified bidder submitting the lowest responsible and responsive bid. The City reserves the right to reject any and all bids or waive any informality or irregularity in the bidding and make the award as deemed to be in the best interest of the City and the public.

The City of Port Orchard in accordance with Title VI of the Civil Rights Act of 1964, 78 Stat. 252, 42 U.S.C. 2000d to 2000d-4 and Title 49, Code of Federal Regulations, Department of Transportation subtitle A, Office of the Secretary, Part 21, nondiscrimination in federally assisted programs of the Department of Transportation issued pursuant to such Act, hereby notifies all bidders that it will affirmatively insure that in any contract entered into pursuant to this advertisement, disadvantaged business enterprises will be afforded full opportunity to submit bids in response to this invitation and will not be discriminated against on the grounds of race, color or national origin in consideration for an award.

The City is an equal opportunity and affirmative action employer. Small and Minority-owned businesses, women-owned businesses, and labor surplus area firms are encouraged to submit bids.

Notice is given to all potential bidders that any bid responses may be subject to release under the Public Records Act Chapter 42.56 RCW and the City may be required to disclose bid responses upon a request. Bidders are advised to mark any records believed to be trade secrets or confidential in nature as "confidential." If records marked as "confidential" are found to be responsive to the request for records, the City may elect to give notice to the bidder of the request so as to allow the bidder to seek a protective order from a Court. Please be advised, however, that any records deemed responsive to a public records request may be released at the sole discretion of, and without notice by, the City.

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NOTICE TO PROSPECTIVE BIDDERS

POTTERY AVE NON-MOTORIZED IMPROVEMENTS

In accordance with Section 1-02.4(1) of the Standard Specifications, it is the City of Port Orchard’s policy that questions concerning the project during the bidding process be submitted in written form. Please submit any questions that are pertinent to bidding the contract, and that are not answered by information contained in the Contract Documents, to the City of Port Orchard-Public Works Department via email at: bidsandproposals@portorchardwa.gov , Attention: Engineering

All emails must be received at least 3 business days prior to the bid opening for a response. All prospective bidder questions and the City’s response will be sent via email, if possible, to all prospective bidders who have purchased plans approximately 2 days prior to the bid opening.

If you believe the Contract Documents contain an error or error(s), please provide us with that information via email. An addendum will be issued to all prospective bidders if a correction is needed. Addendums will be posted on the City’s Website www.portorchardwa.gov/bids-and-proposals/ and Builders Exchange www.bxwa.com

I have the following question(s)/comment(s):

I believe the Contract Document(s) has (have) the following error(s):

Please respond to:

Name: _____

Representing: _____

Address: _____

Fax Number: _____

INFORMATION AND CHECKLIST FOR BIDDERS

The following supplements the information in the Advertisement for Bids:

1. Pre-Bid Conference

A non-mandatory pre-bid conference will be held on site at Pottery Avenue starting at the Sunset Lane intersection on January 16th, 2024 at 11:00 AM and January 18th, 2024 at 2:00 PM. All potential bidders are encouraged to attend. This will be your only opportunity to ask direct questions related to the project. Information from the pre-bid conference will not be made available to bidders who do not attend. The Engineer will transmit to all prospective Bidders of record such addenda as the Engineer considers necessary in response to questions arising at the conference. Oral statements may not be relied upon and will not be binding or legally effective.

2. Examination of Plans, Specifications, and Site

Before submitting his/her bid, the Contractor shall carefully examine each component of the Bid Documents and any other available supporting data so as to be thoroughly familiar with all the requirements.

The Bidder shall make an alert, heads-up, eyes-open reasonable examination of the project site and conditions under which the Work is to be performed, including but not limited to: current site topography, soil and moisture conditions; underground obstructions; the obstacles and character of materials which may be encountered; traffic conditions; public and private utilities; the availability and cost of labor; and available facilities for transportation, handling and storage of materials and equipment.

3. Property Issues

All bidders shall base their bids upon full restoration of all property within the right-of-way and easements, and wherever Bidder will have right-of-entry. The easements and right of entry documents that have been acquired are available for inspection and review. The Bidder is advised to review the conditions of the permits, easements, and rights-of-entry, as s/he shall be required to comply with all conditions at no additional cost to the Owner. All other permits, licenses, etc., shall be the responsibility of the Bidder. The Bidder shall comply with the requirements of each.

4. Interpretation of Bid Documents

The Bidder shall promptly notify Owner of any discovered conflicts, ambiguities, or discrepancies in or between, or omissions from the Bid Documents. Questions or comments about these Bid Documents should be directed to the attention of: Christian Williams, PE and sent via email to bidsandproposals@portorchardwa.gov or mail/drop off to 216 Prospect Street, Port Orchard, WA 98366. Questions received less than three (3)

days prior to the date of bid opening may not be answered. Any interpretation or correction of the Bid Documents will be made only by addendum, and a copy of such addendum will be distributed through plan holders lists at Builders Exchange www.bxwa.com, the City's Website www.portorchardwa.gov/bids-and-proposals and the City Clerk's Plan holders list. The Owner will not be responsible for any other explanations or interpretations of the Bid Documents. No oral interpretations of any provision in the Bid Documents will be made to any Bidder.

5. Bidding Checklist

All bids shall be submitted on the exact forms provided in these Bid Documents, and listed below. Failure to submit any of these forms may be grounds for rejection of the bid. Sealed bids for this proposal shall be submitted as specified in the Advertisement for Bids. Each bid must be submitted in a sealed envelope bearing on the outside the name and address of the Bidder, and the name and number of the project for which the bid is submitted. All bids will remain subject to acceptance for sixty (60) calendar days after the day of the bid opening.

- A. **Proposal** – Bidders must bid on all items contained in the Proposal. If any unit price is left blank, it will be considered no charge for that bid item, regardless of what has been placed in the extension column.
- B. **Bid Security** – Bid Bond is to be executed by the Bidder and the surety company unless bid is accompanied by a cash deposit, cashier's or certified check, or postal money order. The amount of this bond shall be not less than five percent (5%) of the total bid, including sales tax, if applicable, and may be shown in dollars. Surety must be authorized to do business in the State of Washington, and must be on the current Authorized Insurance List in the State of Washington per Section 1-02.7 of the Standard Specifications.
 - i. The bond form included in these Contract Provisions MUST be used; no substitute will be accepted. If an attorney-in-fact signs the bond, a certified and effectively dated copy of their Power of Attorney must accompany the bond.
 - ii. The bid bond/deposit of the successful Bidder will be returned provided s/he executes the Contract, furnishes satisfactory performance bond covering the full amount of work, provides evidence of insurance coverage, and other documents required by the contract documents within 14 calendar days after Notice of Award. Should s/he fail or refuse to do so, the Bid Deposit or Bond shall be forfeited to the City of Port Orchard as liquidated damages for such failure.
 - iii. The Owner reserves the right to retain the security of the three lowest bidders until the successful Bidder has executed the Contract and furnished the performance bond.
- C. **Non-Collusion Declaration** – DOT Form 272-036H EF included in these Contract Provisions must be returned with the bid proposal.

- D. **Bidder's Qualification Form** – Regarding forms D and E, the Owner reserves the right to check all statements and to judge the adequacy of the Bidders qualifications.
- E. **Certification of Compliance with Wage Payment Statutes** – Must be filled in and signed.
- F. **Supplemental Criteria Information Form** - Must be filled in and signed.
- G. **Subcontractors List** – Must be completed

6. Contract Checklist

The following forms are to be executed by the successful Bidder after the Contract is awarded. The Contract and Performance and Payment Bond are included in these Bid Documents and should be carefully examined by the Bidder.

- A. **Contract** – One copy to be executed by the successful Bidder. Bid and Contract Documents must be executed by the Contractor's President or Vice-President if a corporation, or by a partner if a partnership. In the event another person has been duly authorized to execute contracts, a copy of the resolution or other minutes establishing this authority must be attached to the Proposal and Contract documents.
- B. **Performance/Payment Bond and Warranty Bond** – One copy of each type of bond to be executed by the successful Bidder and his surety company. These bonds cover successful completion of all work and payment of all laborers, subcontractors, suppliers, etc. and provide a warranty for the contract work. The bond forms included in these Bid Documents MUST be used; no substitutes will be accepted. If an Attorney-in-fact signs the bond(s), a certified and effectively dated copy of their Power of Attorney must accompany the bond(s).
- C. **Certificates of Insurance** – To be executed by an insurance company acceptable to the Owner, on ACCORD Forms. Required coverages are listed in Section 1-07.18 of the Standard Specifications, as may be modified by the Special Provisions. The Owner shall be named as "Additional Insured" on the insurance policies.
- D. **Selection of Retainage Option** – Pursuant to RCW 60.28.010, 5% retainage will be retained until fulfillment of state and local compliance is documented. The retainage form should be completed by the successful bidder.
- E. **Prevailing Wage Requirements** – The Contractor is required to pay, at a minimum, the applicable prevailing wage rates to those employees performing services under the Contract. The applicable wage rates are set forth in the State of Washington Department of Labor and Industries Prevailing Wage Rate Schedule, RCW 39.12.020.

The project site is located in **Kitsap County**.

The prevailing wage schedule in effect for the work under the Contract will be the one in effect upon the prime contractor's bid due date with these exceptions:

- If the project is not awarded within six (6) months of the bid due date, the award date (the date the contract is executed) is the effective date.
- If the project is not awarded pursuant to bids, the award date (the date the contract is executed) is the effective date.
- Janitorial contracts follow WAC 296-127-023.

For Project number PW2023-002 the prime contractor bid due date is **February 8th, 2024**.

Except for janitorial contracts, the rates in effect on the bid due date shall apply for the duration of the contract (unless otherwise noted in the solicitation).

It is the responsibility of the Contractor to ensure the appropriate labor classification(s) are identified and that the applicable wage and benefit rates are taken into consideration when preparing their proposal according to these specifications.

The selected Contractor must submit to the Department of Labor and Industries, a "Statement of Intent to Pay Prevailing Wages". www.lni.wa.gov/licensing-permits/public-works-projects/contractors-employers/#required-documents-for-doing-the-work A copy of the certified Intent Statement must be submitted to the City prior to payment of the first invoice. The Contractor will pay promptly, when due, all wages accruing to its employees.

All invoice or payment applications are required to bear the following signed statement: "I certify that wages paid under this contract are equal to or greater than the applicable wage rates set forth in the Washington State Prevailing Wage Rates for Public Works Contracts issued by the State of Washington Department of Labor and Industries."

The selected Contractor must submit to the Department of Labor and Industries an "Affidavit of Wages Paid" and a copy of an approved Affidavit must be submitted at the end of the contract to the City before the last payment or any retained funds will be released. www.lni.wa.gov/licensing-permits/public-works-projects/contractors-employers/#when-the-work-is-done

The cost of filing a Statement of Intent to Pay Prevailing Wages and Affidavit of Wages Paid with the Department of Labor and Industries shall be at no additional cost to the City.

The Director of the Department of Labor and Industries shall arbitrate all disputes of the prevailing wage rate, RCW 39.12.060 and WAC 296-127-060.

Look up the prevailing rates of pay, benefit, and overtime codes from this link: <https://lni.wa.gov/licensing-permits/public-works-projects/prevailing-wage-rates/> A copy of the prevailing wage rates is available for viewing at the City of Port Orchard Department of Public Works. A hard copy will be mailed upon request.

For prevailing wage questions, contact the Department of Labor & Industries at PW1@Lni.wa.gov or 360-902-5335.

7. Contractor Disqualification

1) A bidder will be deemed not responsible, and the proposal rejected if the bidder does not meet the following responsibility criteria set forth in RCW 39.04.350, which provides, in part, as follows:

(1) Before award of a public works contract, a bidder must meet the following responsibility criteria to be considered a responsible bidder and qualified to be awarded a public works project. The bidder must:

(a) At the time of bid submittal, have a certificate of registration in compliance with chapter 18.27 RCW;

(b) Have a current state unified business identifier number;

(c) If applicable, have industrial insurance coverage for the bidder's employees working in Washington as required in Title 51 RCW; an employment security department number as required in Title 50 RCW; and a state excise tax registration number as required in Title 82 RCW;

(d) Not be disqualified from bidding on any public works contract under RCW 39.06.010 or 39.12.065(3);

(e) If bidding on a public works project subject to the apprenticeship utilization requirements in RCW 39.04.320, not have been found out of compliance by the Washington state apprenticeship and training council for working apprentices out of ratio, without appropriate supervision, or outside their approved work processes as outlined in their standards of apprenticeship under chapter 49.04 RCW for the one-year period immediately preceding the date of the bid solicitation;

(f) Have received training on the requirements related to public works and prevailing wage under this chapter and chapter 39.12 RCW. The bidder must designate a person or persons to be trained on these requirements. The training must be provided by the department of labor and industries or by a training provider whose curriculum is approved by the department. The department, in consultation with the prevailing wage advisory committee, must determine the length of the training. Bidders that have completed three or more public works projects and have had a valid business license in Washington for three or more years are exempt from this subsection. The department of labor and industries must keep records of entities that have satisfied the training requirement or are exempt and make the records available on its web site. Responsible parties may rely on the records made available by the department regarding satisfaction of the training requirement or exemption.

(g) Within the three-year period immediately preceding the date of the bid solicitation, not have been determined by a final and binding citation and notice of assessment issued by the department of labor and industries or through a civil judgment entered by a court of limited or general jurisdiction to have willfully violated, as defined in RCW 49.48.082, any provision of chapter 49.46, 49.48, or 49.52 RCW.

The Bidder shall submit a signed statement to the City in accordance with Chapter 5.50 RCW verifying under penalty of perjury that (1) the bidder is in compliance with the responsible bidder criteria in subsection (1)(g) above; and (2) that the Contractor is not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded by any Federal department or agency in accordance with Executive Orders 12549 and 12689, 24 C.F.R. Pt. 24.

- 2) A bidder may be deemed not responsible and the proposal rejected if:
- a. More than one proposal is submitted for the same project from a bidder under the same or different names;
 - b. Evidence of collusion exists with any other bidder or potential bidder. Participants in collusion will be restricted from submitting further bids;
 - c. The bidder, in the opinion of the Contracting Agency, is not qualified for the work or to the full extent of the bid, or to the extent that the bid exceeds the authorized prequalification amount as may have been determined by a prequalification of the bidder;
 - d. An unsatisfactory performance record exists based on past or current Contracting Agency work or for work done for others, as judged from the standpoint of conduct of the work; workmanship; progress; affirmative action; equal employment opportunity practices; or Disadvantaged Business Enterprise, Minority Business Enterprise, or Women's Business Enterprise utilization;
 - e. There is uncompleted work (Contracting Agency or otherwise) which might hinder or prevent the prompt completion of the work bid upon;
 - f. The bidder failed to settle bills for labor or materials on past or current contracts;
 - g. The bidder has failed to complete a written public contract or has been convicted of a crime arising from a previous public contract;
 - h. The bidder is unable, financially or otherwise, to perform the work; or
 - i. There are any other reasons deemed proper by the Contracting Agency.

PROPOSAL
CITY OF PORT ORCHARD
POTTERY AVE NON-MOTORIZED IMPROVEMENTS
PROJECT NO. PW2023-002

To: Mayor and City Council
City of Port Orchard, Washington

Contractor: _____

State License No.: _____

Date: _____
Month/Day/Year

Bidder's Declaration and Understanding

The Bidder declares that they have carefully examined the Contract Documents for the construction of the project, that they have personally inspected the site, that they have satisfied themselves as to the quantities involved, including materials and equipment, and conditions of work involved, including the fact that the description of the quantities of work and materials, as included herein, is brief and is intended only to indicate the general nature of the work and to identify the said quantities with the detailed requirements of the Contract Documents, and that this Proposal is made according the provisions and under the terms of the Contract Documents, which Documents are hereby made a part of this Proposal. The Bidder further declares that they have exercised their own judgment regarding the interpretation, of subsurface information and have utilized all data, which they believes pertinent from City and other sources and have made such independent investigations as the Bidder deems necessary in arriving at their conclusions.

Bidder understands that any bid response documents may be subject to release under the Public Records Act Chapter 42.56 RCW and the City may be required to disclose bid responses upon a request. Bidder acknowledges that they have been advised to mark any records believed to be trade secrets or confidential in nature as "confidential." If records marked as "confidential" are found to be responsive to the request for records, the City as a courtesy to the Bidder may elect to give notice to Bidder of the request so as to allow Bidder to seek a protective order from a Court. Bidder acknowledges and agrees that any records deemed responsive to a public records request may be released at the sole discretion of, and without notice by, the City.

Contract Execution

The Bidder agrees that if this Proposal is accepted, the bidder will, within fourteen (14) calendar days after Notice of Award, complete and sign the Contract in the form annexed hereto, and will at that time deliver to the City executed copies of the Performance Bond, Labor and Material Payment bond, the Certificate of Insurance, and other documentation required by the Contract Documents, and will, to the extent of the Proposal, furnish all machinery, tools, apparatus and other means of construction and do the work and furnish all the materials or services necessary to complete all work as specified or indicated in the Contract Documents.

Start of Construction and Contract Completion

The Bidder further agrees that within 14 calendar days of CONTRACT START DATE, they will meet with engineering personnel and begin work no earlier than March 11th, 2024, and complete the construction within **125** working days of START DATE.

Lump Sum and Unit Price Work

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

If any material, item, or service required by the Contract Documents has not been mentioned specifically, the same shall be furnished and placed with the understanding that the full cost to the City has been merged with prices named in the proposal.

SCHEDULE OF CONTRACT PRICES
Pottery Ave Non-Motorized Improvements
Project No PW2023-002

NOTE: Unit prices for all items and the total amount bid must be shown. The Project must be bid in its entirety, including all bid items as specifically listed in the Proposal, in order to be considered a responsive bid. Where conflict occurs between the unit price and the total amount named for any items, the unit price typed or printed and entered in ink shall prevail. The Contracting Agency reserves the right to award all work bid according to the lowest qualified responsive bid tendered, available funds, and as it best serves the interest of the Contracting Agency. All work awarded will be made to the same Contractor/bidder.

SALES TAX-Schedule A In accordance with Section 1-07.2(1) State Sales Tax (DOR rule 171): Work performed on City, County, or Federally-owned land, the Contractor shall include applicable Washington State retail sales taxes in the various unit bid prices or other amounts. These retail sales taxes shall include those the Contractor pays on purchases of materials, equipment, and supplies used or consumed in doing the work.

SALES TAX-Schedule B Retailing/Retail Sales Tax Rule WAC 458-20-170: Washington State Retail sales tax added as percent (%) in addition to contract bid price; sales tax shown as separate line item.

Item No.	Estimated Quantity	SP / STD	Description of Item / Total Amount in Words	Unit Price	Total Amount
Schedule A - Sidewalk/Channelization/Roadway Repair Related Work					
A-1	Lump Sum	STD (1-09)	Mobilization	LS \$ _____	\$ _____
				\$ _____	
					(Total Amount in Words)
A-2	Calculation	SP (1-04)	Minor Changes	CALC \$ _____	\$ 15,000.00
				\$ _____	
					(Total Amount in Words)
A-3	Lump Sum	SP (1-05)	Record Drawings (Minimum Bid \$2,000)	LS \$ _____	\$ _____
				\$ _____	
					(Total Amount in Words)
A-4	Lump Sum	SP (1-07)	SPCC Plan	LS \$ _____	\$ _____
				\$ _____	
					(Total Amount in Words)
A-5	Lump Sum	STD (1-10)	Project Temporary Traffic Control	LS \$ _____	\$ _____

Item No.	Estimated Quantity	SP / STD	Description of Item / Total Amount in Words	Unit Price	Total Amount
			\$		
			(Total Amount in Words)		
A-6	0.4 AC	SP (2-01)	Clearing and Grubbing	AC	
				\$	\$
			\$		
			(Total Amount in Words)		
A-7	1,390 CY	STD (2-03)	Roadway Excavation Incl. Haul	CY	
				\$	\$
			\$		
			(Total Amount in Words)		
A-8	10 TN	STD (2-03)	Gravel Borrow Incl. Haul	TN	
				\$	\$
			\$		
			(Total Amount in Words)		
A-9	330 CY	STD (2-09)	Structure Excavation Class A Incl. Haul	CY	
				\$	\$
			\$		
			(Total Amount in Words)		
A-10	Lump Sum	STD (2-09)	Shoring or Extra Excavation Class A	LS	
				\$	\$
			\$		
			(Total Amount in Words)		
A-11	120 CY	STD (2-09)	Structure Excavation Class B Incl. Haul	CY	
				\$	\$
			\$		
			(Total Amount in Words)		
A-12	880 SF	STD (2-09)	Shoring or Extra Excavation Class B	SF	
				\$	\$
			\$		
			(Total Amount in Words)		
A-13	890 TN	STD (4-04)	Crushed Surfacing Top Course	TN	
				\$	\$
			\$		
			(Total Amount in Words)		
A-14	FA	STD (5-03)	Crack Sealing Bit Pvmnt - FA	FA	
				\$	\$ 10,000.00
			\$		
			(Total Amount in Words)		
A-15	950 SY	SP (5-04)	Planing Bituminous Pavement	SY	
				\$	\$

Item No.	Estimated Quantity	SP / STD	Description of Item / Total Amount in Words	Unit Price	Total Amount
			\$		
			(Total Amount in Words)		
A-16	1,500 TN	SP (5-04)	HMA Cl. 1/2 In. PG 58H-22	TN	
				\$	\$
			\$		
			(Total Amount in Words)		
A-17	5 TN	SP (5-04)	HMA for Approach Cl. 1/2 In. PG 58H-22	TN	
				\$	\$
			\$		
			(Total Amount in Words)		
A-18	160 LF	STD (7-04)	Testing Storm Sewer Pipe	LF	
				\$	\$
			\$		
			(Total Amount in Words)		
A-19	160 LF	SP (7-04)	High-Density Polyethylene (HDPE) Pipe 12 In. Diam.	LF	
				\$	\$
			\$		
			(Total Amount in Words)		
A-20	4 EA	STD (7-05)	Adjust Manhole	EA	
				\$	\$
			\$		
			(Total Amount in Words)		
A-21	12 EA	STD (7-05)	Adjust Catch Basin	EA	
				\$	\$
			\$		
			(Total Amount in Words)		
A-22	5 EA	STD (7-05)	Catch Basin Type 1	EA	
				\$	\$
			\$		
			(Total Amount in Words)		
A-23	5 EA	STD (7-05)	Connection to Drainage Structure	EA	
				\$	\$
			\$		
			(Total Amount in Words)		
A-24	3 EA	SP (7-05)	Locking Solid Metal Cover for Catch Basin	EA	
				\$	\$
			\$		
			(Total Amount in Words)		
A-25	50 CY	STD (7-08)	Gravel Backfill for Pipe Zone Bedding	CY	
				\$	\$

Item No.	Estimated Quantity	SP / STD	Description of Item / Total Amount in Words	Unit Price	Total Amount
			\$		
			(Total Amount in Words)		
A-26	9 EA	SP (7-12)	Adjust Valve Box	EA	
				\$	\$
			\$		
			(Total Amount in Words)		
A-27	28 EA	STD (8-01)	Inlet Protection	EA	
				\$	\$
			\$		
			(Total Amount in Words)		
A-28	770 LF	STD (8-01)	High Visibility Fence	LF	
				\$	\$
			\$		
			(Total Amount in Words)		
A-29	Lump Sum	STD (8-01)	Erosion Control and Water Pollution Prevention	LS	
				\$	\$
			\$		
			(Total Amount in Words)		
A-30	570 SY	SP (8-02)	Seeding, Fertilizing, and Mulching	SY	
				\$	\$
			\$		
			(Total Amount in Words)		
A-31	70 SY	SP (8-02)	Bark or Wood Chip Mulch	SY	
				\$	\$
			\$		
			(Total Amount in Words)		
A-32	570 SY	SP (8-02)	Fine Compost	SY	
				\$	\$
			\$		
			(Total Amount in Words)		
A-33	630 SY	SP (8-02)	Topsoil Type A	SY	
				\$	\$
			\$		
			(Total Amount in Words)		
A-34	65 LF	STD (8-04)	Cement Conc. Pedestrian Curb	LF	
				\$	\$
			\$		
			(Total Amount in Words)		
A-35	45 LF	STD (8-04)	Cement Conc. Traffic Curb	LF	
				\$	\$

Item No.	Estimated Quantity	SP / STD	Description of Item / Total Amount in Words	Unit Price	Total Amount
			\$		
			(Total Amount in Words)		
A-36	1,850 LF	STD (8-04)	Cement Conc. Traffic Curb and Gutter	LF \$	\$
			\$		
			(Total Amount in Words)		
A-37	130 SY	STD (8-06)	Cement Conc. Driveway Entrance Type 1	SY \$	\$
			\$		
			(Total Amount in Words)		
A-38	420 LF	SP (8-12)	Coated Chain Link Fence Type 4	LF \$	\$
			\$		
			(Total Amount in Words)		
A-39	3 EA	STD (8-14)	Cement Conc. Curb Ramp Type Perpendicular A	EA \$	\$
			\$		
			(Total Amount in Words)		
A-40	4 EA	STD (8-14)	Cement Conc. Curb Ramp Type Parallel A	EA \$	\$
			\$		
			(Total Amount in Words)		
A-41	750 SY	STD (8-14)	Cement Conc. Sidewalk	SY \$	\$
			\$		
			(Total Amount in Words)		
A-42	35 SF	STD (8-14)	Detectable Warning Surface	SF \$	\$
			\$		
			(Total Amount in Words)		
A-43	Lump Sum	SP (8-20)	RRFB System (Middle School)	LS \$	\$
			\$		
			(Total Amount in Words)		
A-44	Lump Sum	SP (8-21)	Permanent Signing	LS \$	\$
			\$		
			(Total Amount in Words)		
A-45	8,060 LF	STD (8-22)	Paint Line	LF \$	\$

Item No.	Estimated Quantity	SP / STD	Description of Item / Total Amount in Words	Unit Price	Total Amount
			\$		
			(Total Amount in Words)		
A-46	700 LF	STD (8-22)	Plastic Line	LF	
				\$	\$
			\$		
			(Total Amount in Words)		
A-47	5,730 LF	STD (8-22)	Painted Wide Line	LF	
				\$	\$
			\$		
			(Total Amount in Words)		
A-48	820 LF	STD (8-22)	Plastic Wide Line	LF	
				\$	\$
			\$		
			(Total Amount in Words)		
A-49	1,510 LF	STD (8-22)	Painted Crosshatch Marking	LF	
				\$	\$
			\$		
			(Total Amount in Words)		
A-50	80 LF	STD (8-22)	Plastic Stop Line	LF	
				\$	\$
			\$		
			(Total Amount in Words)		
A-51	370 SF	STD (8-22)	Plastic Crosswalk Line	SF	
				\$	\$
			\$		
			(Total Amount in Words)		
A-52	8 EA	STD (8-22)	Plastic Bicycle Lane Symbol	EA	
				\$	\$
			\$		
			(Total Amount in Words)		
A-53	16 EA	STD (8-22)	Plastic Traffic Arrow	EA	
				\$	\$
			\$		
			(Total Amount in Words)		
A-54	8,100 LF	STD (8-22)	Removing Paint Line	LF	
				\$	\$
			\$		
			(Total Amount in Words)		
A-55	160 SF	STD (8-22)	Removing Plastic Crosswalk Line	SF	
				\$	\$

Item No.	Estimated Quantity	SP / STD	Description of Item / Total Amount in Words	Unit Price	Total Amount
			\$		
			(Total Amount in Words)		
A-56	15 EA	STD (8-22)	Removing Plastic Traffic Marking	EA \$	\$
			\$		
			(Total Amount in Words)		
A-57	100 TN	STD (8-24)	Backfill for Rock Wall	TN \$	\$
			\$		
			(Total Amount in Words)		
A-58	170 TN	SP (8-24)	Rock for Rock Wall	TN \$	\$
			\$		
			(Total Amount in Words)		
Schedule A Subtotal					\$

Schedule B - Sewer Mains and Water Main Replacement					
B-1	Calculation	SP (1-04)	Minor Changes	CALC \$	\$ 10,000.00
			\$		
			(Total Amount in Words)		
B-2	Lump Sum	SP (1-10)	Project Temporary Traffic Control	LS \$	\$
			\$		
			(Total Amount in Words)		
B-3	Lump Sum	SP (2-02)	Removal and Disposal of Asbestos Materials	LS \$	\$
			\$		
			(Total Amount in Words)		
B-4	Lump Sum	SP (2-02)	Removal of Structures and Obstructions	LS \$	\$
			\$		
			(Total Amount in Words)		
B-5	690 CY	STD (2-03)	Roadway Excavation Incl. Haul	CY \$	\$
			\$		
			(Total Amount in Words)		
B-6	255 TN	STD (2-03)	Gravel Borrow Incl. Haul	TN \$	\$

Item No.	Estimated Quantity	SP / STD	Description of Item / Total Amount in Words	Unit Price	Total Amount
			\$		
			(Total Amount in Words)		
B-7	1,280 CY	STD (2-09)	Structure Excavation Class B Incl. Haul	CY \$	\$
			\$		
			(Total Amount in Words)		
B-8	13,590 SF	STD (2-09)	Shoring or Extra Excavation Class B	SF \$	\$
			\$		
			(Total Amount in Words)		
B-9	720 TN	STD (4-04)	Crushed Surfacing Top Course	TN \$	\$
			\$		
			(Total Amount in Words)		
B-10	1,420 SY	SP (5-04)	Planing Bituminous Pavement	SY \$	\$
			\$		
			(Total Amount in Words)		
B-11	770 TN	SP (5-04)	HMA Cl. 1/2 In. PG58H-22	TN \$	\$
			\$		
			(Total Amount in Words)		
B-12	1 EA	STD (7-05)	Adjust Manhole	EA \$	\$
			\$		
			(Total Amount in Words)		
B-13	1 EA	STD (7-05)	Adjust Catch Basin	EA \$	\$
			\$		
			(Total Amount in Words)		
B-14	2 EA	SP (7-05)	Drop Manhole Connection	EA \$	\$
			\$		
			(Total Amount in Words)		
B-15	2 EA	SP (7-05)	Manhole 48 In. Diam. Type 1	EA \$	\$
			\$		
			(Total Amount in Words)		
B-16	20 LF	SP (7-09)	Ductile Iron Pipe for Water Main 6 In. Diam.	LF \$	\$

Item No.	Estimated Quantity	SP / STD	Description of Item / Total Amount in Words	Unit Price	Total Amount
			\$		
			(Total Amount in Words)		
B-17	240 LF	SP (7-09)	Ductile Iron Pipe for Water Main 8 In. Diam.	LF \$	\$
			\$		
			(Total Amount in Words)		
B-18	440 LF	SP (7-09)	Abandon Existing Water Main	LF \$	\$
			\$		
			(Total Amount in Words)		
B-19	5 EA	SP (7-12)	Adjust Valve Box	EA \$	\$
			\$		
			(Total Amount in Words)		
B-20	1 EA	SP (7-12)	Tapping Sleeve and Valve Assembly 8 In.	EA \$	\$
			\$		
			(Total Amount in Words)		
B-21	1 EA	STD (7-14)	Moving Existing Hydrant	EA \$	\$
			\$		
			(Total Amount in Words)		
B-22	8 EA	SP (7-15)	Service Connection 1 In. Diam.	EA \$	\$
			\$		
			(Total Amount in Words)		
B-23	1,820 LF	SP (7-17)	Testing Sewer Pipe	LF \$	\$
			\$		
			(Total Amount in Words)		
B-24	1,510 LF	SP (7-17)	High-Density Polyethylene (HDPE) Pipe 10 In. Diam.	LF \$	\$
			\$		
			(Total Amount in Words)		
B-25	520 LF	SP (7-17)	High-Density Polyethylene (HDPE) Casing Pipe 16 In. Diam.	LF \$	\$
			\$		
			(Total Amount in Words)		
B-26	20 LF	SP (7-17)	PVC Sanitary Sewer Pipe 6 In. Diam.	LF \$	\$

Item No.	Estimated Quantity	SP / STD	Description of Item / Total Amount in Words	Unit Price	Total Amount
			\$		
			(Total Amount in Words)		
B-27	290 LF	SP (7-17)	PVC Sanitary Sewer Pipe 8 In. Diam.	LF \$	\$
			\$		
			(Total Amount in Words)		
B-28	1 EA	SP (7-19)	Sewer Cleanout	EA \$	\$
			\$		
			(Total Amount in Words)		
B-29	9 EA	STD (8-01)	Inlet Protection	EA \$	\$
			\$		
			(Total Amount in Words)		
B-30	20 SY	SP (8-02)	Seeding, Fertilizing, and Mulching	SY \$	\$
			\$		
			(Total Amount in Words)		
B-31	20 SY	SP (8-02)	Fine Compost	SY \$	\$
			\$		
			(Total Amount in Words)		
B-32	20 SY	SP (8-02)	Topsoil Type A	SY \$	\$
			\$		
			(Total Amount in Words)		
B-33	10 LF	STD (8-04)	Cement Conc. Traffic Curb	LF \$	\$
			\$		
			(Total Amount in Words)		
B-34	10 LF	STD (8-04)	Cement Conc. Traffic Curb and Gutter	LF \$	\$
			\$		
			(Total Amount in Words)		
B-35	20 SY	STD (8-14)	Cement Conc. Sidewalk	SY \$	\$
			\$		
			(Total Amount in Words)		
B-36	1,280 LF	STD (8-22)	Paint Line	LF \$	\$

Item No.	Estimated Quantity	SP / STD	Description of Item / Total Amount in Words	Unit Price	Total Amount
			\$		
				(Total Amount in Words)	
B-37	1,580 LF	STD (8-22)	Painted Wide Line	LF	
				\$	\$
			\$		
				(Total Amount in Words)	
B-38	100 SF	STD (8-22)	Plastic Crosswalk Line	SF	
				\$	\$
			\$		
				(Total Amount in Words)	
B-39	10 SF	STD (8-22)	Removing Plastic Crosswalk Line	SF	
				\$	\$
			\$		
				(Total Amount in Words)	
Schedule B Subtotal					\$
SALES TAX (9.3%)					\$
Schedule B Total					\$
Schedule A Total					\$
Schedule B Total					\$
TOTAL BID					\$

The undersigned Bidder hereby agrees to start construction on this project, if awarded, no later than fourteen (14) calendar days after Notice to Proceed and to complete the project within the time stipulated in the Contract. By signing below, Bidder acknowledges receipt of the following Addenda to the Bid Documents:

**CITY OF PORT ORCHARD
POTTERY AVE NON-MOTORIZED IMPROVEMENTS
PROJECT NO. PW2023-002**

_____ Addendum No.	_____ Date of Receipt	_____ Addendum No.	_____ Date of Receipt
_____ Addendum No.	_____ Date of Receipt	_____ Addendum No.	_____ Date of Receipt

NOTE: Failure to acknowledge receipt of Addenda may be considered as an irregularity in the Bid Proposal and Owner reserves the right to determine whether the bid will be disqualified.

By signing below, Bidder certifies that they have reviewed the insurance provisions of the Bid Documents and will provide the required coverage.

The undersigned Bidder hereby certifies that, within the three-year period immediately preceding the bid solicitation date for this Project, the Bidder is not a “willful” violator, as defined in RCW 49.48.082, of any provision of chapters 49.46, 49.48, or 49.52 RCW, as determined by a final and binding citation and notice of assessment issued by the Department of Labor and Industries or through a civil judgment entered by a court of limited or general jurisdiction.

<u>OFFICIAL AUTHORIZED TO SIGN FOR BIDDER:</u>	
“I certify (or declare) under penalty of perjury under the laws of the State of Washington that the foregoing is true and correct.”	
Signature:	Date:
Printed Name and Title:	Location or Place Executed (City, State):
Business Address:	Business Telephone:

NOTES: If the Bidder is a co-partnership, give firm name under which business is transacted; proposal must be executed by a partner. If the Bidder is a corporation, proposal must be executed in the corporate name by the president or vice-president (or any other corporate officer accompanied by evidence of authority to sign).

STATE OF _____)
)ss.

COUNTY OF _____)

I certify that I know or have satisfactory evidence that _____ signed this proposal, on oath stated that he/she was authorized to execute the proposal and acknowledged it as the _____ (title) of _____ (name of party on behalf of whom proposal was executed) and acknowledged it to be his/her free and voluntary act for the uses and purposes mentioned in this proposal.

Dated this _____ day of _____, 20____.

Notary Public

Printed Name

My Commission Expires: _____

BIDDER'S QUALIFICATION FORM
CITY OF PORT ORCHARD
POTTERY AVE NON-MOTORIZED IMPROVEMENTS
PROJECT NO. PW2023-002

1. Name of Contractor: _____

Address: _____

2. Telephone No. (_____) _____ Fax No.: (_____) _____

Email Address: _____

3. Washington State Dept. of Labor and Industries Worker's Compensation Account No.: _____

4. Washington State Dept. of Licensing Contractor's Registration No.: _____

Expiration Date: _____

5. Washington State Uniform Business Identifier No.: _____

(Must have UBI number before the contract is awarded.)

6. Does the Contractor have a City of Port Orchard Business License Yes: _____ No: _____

(A City of Port Orchard Business license is required prior to commencing work pursuant to a written Notice to Proceed)

7. Number of years engaged in contracting business under above name: _____

8. At the time of bid submittal, did the contractor have a certificate of registration in compliance with Chapter 18.27 RCW? _____

9. Does the contractor have industrial insurance coverage for its employees working in Washington as required in Title 51 RCW? (Provide Number) _____

10. Does the contractor have an employment security department number as required in Title 50 RCW? (Provide number): _____

11. Does the contractor have a state excise tax registration number as required in Title 82 RCW? (Provide number): _____

12. Has the contractor been disqualified from bidding on any public works contract under RCW 39.06.010 or 39.12.065(3)? _____

13. If project is Federally funded. Is the Contractor registered in Sam.gov? Enter Unique ID No. (UEI)_____

14. Has the contractor received training on the requirements related to public works and prevailing wage under chapters 39.04 and 39.12 RCW, as required in RCW 39.04.350(1)(f) _____

15. Within the three-year period immediately preceding the date of the bid solicitation, was the contractor (determined by a final and binding citation and notice of assessment issued by the department of labor and industries or through a civil judgment entered by a court of limited or general jurisdiction) to have willfully violated, as defined in [RCW 49.48.082](#), any provision of chapter 49.46, 49.48, or 49.52 RCW? _____

16. Has the contractor violated the “Off-site Prefabricated Non-Standard Project Specific Items” reporting requirements more than one time as determined by the department of labor and industries? _____

17. Particular types of construction performed by your company: _____

18. Gross amount of contracts now on hand: \$ _____

19. List similar recent construction projects that your firm has done in the last 5 years (i.e., water and storm and sanitary sewer main construction, road reconstruction, sidewalk and ADA construction, RRFB installations, excavations, rockery construction, etc.):

Amount	Type	Owner’s Name	Phone
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

20. What is the construction experience of the principal individuals to be assigned to this project?

Name	Title	Years of Construction Experience	Availability

Pursuant to RCW 39.06.020, the contractor further agrees to verify responsibility criteria for each of its subcontractors and to require each of its subcontractors to both verify responsibility criteria as described herein for its subcontractors and include instant condition for verification requirement.

By: _____
(Authorized Signature)

Title: _____

Date: _____

NOTE: Any bidder having current outstanding litigation with the City will not be considered responsible and will be rejected by the City.

**BID SECURITY
CITY OF PORT ORCHARD
POTTERY AVE NON-MOTORIZED IMPROVEMENTS
PROJECT NO. PW2023-002**

Bid Deposit:

The undersigned Principal hereby submits a Bid Deposit with the City of Port Orchard in the form of a cash deposit, certified or cashier's check, or postal money order in the amount of _____ Dollars (\$_____).

Bid Bond:

KNOW ALL MEN BY THESE PRESENTS: That we, _____, as Principal and _____, as Surety, are held firmly bound unto the City of Port Orchard, Washington, as Obligee, in the penal sum of _____ Dollars, for the payment of which the Principal and the Surety bind themselves, their heirs, executors, administrators, successors and assigns, jointly and severally by these presents.

The conditions of this obligation are such that if the Obligee shall make any award to the Principal for _____, Port Orchard, Washington, according to the terms of the Proposal or Bid made by the Principal therefore, and the Principal shall duly make and enter into a contract with the Obligee in accordance with the terms of said Proposal or Bid and award and shall give bond for the faithful performance thereof, with Surety or Sureties approved by the Obligee, or if the Principal shall, in case of failure to do so, pay and forfeit to the Obligee the penal amount of the deposit specified in the call for bids, then this obligation shall be null and void; otherwise it shall be and remain in full force and effect and the Surety shall forthwith pay and forfeit to the Obligee, as penalty and liquidated damages, the amount of this Bond.

Signed, Sealed and Dated this _____ day of _____, 20____.

Principal

Surety

Signature of Authorized Official

Signature of Authorized Official

Printed Name and Title

By: _____
Attorney-in-Fact (Attach Power of Attorney)

Name and address of local office of Agent and/or Surety Company:

Surety companies executing bonds must appear on the current Authorized Insurance List in the State of Washington per Section 1-02.7 of the Standard Specification.

Failure to return this Declaration as part of the bid proposal package will make the bid nonresponsive and ineligible for award.

NON-COLLUSION DECLARATION

I, by signing the proposal, hereby declare, under penalty of perjury under the laws of the United States that the following statements are true and correct:

1. That the undersigned person(s), firm, association or corporation has (have) not, either directly or indirectly, entered into any agreement, participated in any collusion, or otherwise taken any action in restraint of free competitive bidding in connection with the project for which this proposal is submitted.
2. That by signing the signature page of this proposal, I am deemed to have signed and to have agreed to the provisions of this declaration.

NOTICE TO ALL BIDDERS

To report rigging activities call:

1-800-424-9071

The U.S. Department of Transportation (USDOT) operates the above toll-free "hotline" Monday through Friday, 8:00 a.m. to 5:00 p.m., eastern time. Anyone with knowledge of possible bid rigging, bidder collusion, or other fraudulent activities should use the "hotline" to report such activities.

The "hotline" is part of USDOT's continuing effort to identify and investigate highway construction contract fraud and abuse and is operated under the direction of the USDOT Inspector General. All information will be treated confidentially and caller anonymity will be respected.

CERTIFICATION OF COMPLIANCE WITH WAGE PAYMENT STATUTES

The bidder hereby certifies that, within the three-year period immediately preceding the bid solicitation date **January 12th, 2024**, the bidder is not a “willful” violator, as defined in RCW 49.48.082, of any provision of chapters 49.46, 49.48, or 49.52 RCW, as determined by a final and binding citation and notice of assessment issued by the Department of Labor and Industries or through a civil judgment entered by a court of limited or general jurisdiction.

I certify under penalty of perjury under the laws of the State of Washington that the foregoing is true and correct.

Bidder’s Business Name

Signature of Authorized Officer/Representative*

Printed Name

Title

_____ _____ _____
Date City State

Check One:

Sole Proprietorship Partnership Joint Venture Corporation/LLC

State of Incorporation, or if not a corporation, State where business entity was formed:

If a co-partnership, give firm name under which business is transacted:

**If a corporation or limited liability company, this certificate must be executed in the entity’s name by the president or vice-president (or any other corporate officer accompanied by evidence of authority to sign). If a co-partnership, this certificate must be executed by a partner.*

SUPPLEMENTAL CRITERIA INFORMATION FORM

As evidence that the Bidder meets the mandatory and supplemental responsibility criteria, the apparent two lowest Bidders must submit to the Owner by 12:00 p.m. (noon) of the second business day following the bid submittal deadline, this Supplemental Criteria Information Form verifying that the Bidder meets the Mandatory Criteria under RCW 39.04.350(1) and the Supplemental Bidder Criteria stated below. The two lowest Bidders shall also submit supporting documentation including but not limited to that detailed below (sufficient in the sole judgment of the Owner) demonstrating compliance with all mandatory and supplemental responsibility criteria. The Owner reserves the right to request such documentation from other Bidders as well, and to request further documentation as needed to assess Bidder responsibility. The Owner also reserves the right to obtain information from third parties and independent sources of information concerning a Bidder's compliance with the mandatory and supplemental criteria, and to use that information in their evaluation. The Owner may (but is not required to) consider mitigating factors in determining whether the Bidder complies with the requirements of the supplemental criteria.

The basis for evaluation of Bidder compliance with these mandatory and supplemental criteria shall include any documents or facts obtained by Owner (whether from the Bidder or third parties) including but not limited to: (i) financial, historical, or operational data from the Bidder; (ii) information obtained directly by the Owner from others for whom the Bidder has worked, or other public agencies or private enterprises; and (iii) any additional information obtained by the Owner which is believed to be relevant to the matter.

If the Owner determines the Bidder does not meet the bidder responsibility criteria and is therefore not a responsible Bidder or the bid is not responsive, the Owner shall notify the Bidder in writing, with the reasons for its determination. If the Bidder disagrees with this determination, it may appeal the determination within two (2) business days of the Owner's determination by presenting its appeal and any additional information to the Owner. The Owner will consider the appeal and any additional information before issuing its final determination. If the final determination affirms that the Bidder is not responsible (or the bid is not responsive), the Owner will not execute a contract with any other Bidder until at least two business days after the Bidder determined to be not responsible (or the bid not responsive) has received the Owner's final determination.

Request to Change Supplemental Bidder Responsibility Criteria Prior to Bid: Bidders with concerns about the relevancy or restrictiveness of the Supplemental Bidder Responsibility Criteria may make or submit requests to the Owner to modify the criteria. Such requests shall be in writing, describe the nature of the concerns, and propose specific modifications to the criteria. Bidders shall submit such requests to the Owner no later than five (5) business days prior to the bid submittal deadline and address the request to the Project Engineer or such other person designated by the Owner in the Bid Documents.

For criteria with check boxes, the bidder will check either "Yes" or "No." For each "Yes" answer on the form, the Bidder shall provide a signed and dated statement providing the project information requested and explaining the extenuating circumstances.

Project Name:	
Part A. General Company Information	
Company Name:	
Address:	
Contact Phone:	Contact E-mail:
Years in business as a Prime Contractor:	Years in business as a subcontractor:
Years in business under Present Name:	
List any former company names under which the company, its owners, and/or its principals has operated in the past five (5) years.	
Explain reason for name change(s) in the past five (5) years)	
Part B. Delinquent State Taxes	
Is the bidder listed on the Washington State Department of Revenue's "Delinquent Taxpayer List" website:	
http://dor.wa.gov/content/fileandpaytaxes/latefiling/dtlwest.aspx	
Yes <input type="checkbox"/> No <input type="checkbox"/>	
If "Yes" attach a copy of the written payment plan approved by the Department of Revenue.	
Part C. Federal Debarment	
The bidder shall not be listed as a current debarred or suspended bidder on the Federal "System For Award Management" website www.sam.gov. Is the bidder listed as debarred or suspended?	
Yes <input type="checkbox"/> No <input type="checkbox"/>	
Sam.gov Unique Entity ID No. _____	

Part D. Subcontractor Responsibility
Does the bidder’s standard subcontract form include the subcontractor language required by RCW 39.06.020? Does the bidder have an established procedure which it uses to validate the responsibility of each of its subcontractors? Does the subcontract form require that each of the bidder’s subcontractors have and document a similar procedure for sub-tier subcontractors?
Yes <input type="checkbox"/> No <input type="checkbox"/>
If “Yes” or “No”, provide a copy of its standard subcontract form and a copy of the procedures used to validate the responsibility of subcontractors.
Part E. Prevailing Wages
In the last five (5) years, has the bidder had prevailing wage complaints filed against it or received violations as determined by the applicable state or federal government agency monitoring prevailing and/or Davis-Bacon wage compliance?
Yes <input type="checkbox"/> No <input type="checkbox"/>
If “Yes,” attach a separate signed/dated statement listing the prevailing wage violations, along with an explanation of each violation and how it was resolved. The City shall evaluate these explanations and the resolution of each violation to determine whether the violations demonstrate a pattern of failure to pay prevailing wages to workers unless there are extenuating circumstances acceptable to the City.
Part F. Claims Against Retainage and Bonds
Does the bidder have a record of any claims filed against the retainage or payment bonds for public works projects during the previous three (3) years?
Yes <input type="checkbox"/> No <input type="checkbox"/>
If “Yes”, attach a separate signed / dated statement for each project with claims which includes the following: 1) Owner and contact information for the owner; 2) a list of claims filed against the retainage and/or payment bond for the project; and 3) a written explanation of the circumstances surrounding the claim and the ultimate resolution of the claim. The City may contact previous owners to validate the information provided by the Bidder. The City shall evaluate the information to determine if it demonstrates a lack of effective management by the bidder of making timely and appropriate payments, unless there are extenuating circumstances acceptable to the City in its sole discretion.

Part G. Public Bidding Crime
Has the bidder been convicted of a crime involving bidding on a public works contract within the last five (5) years?
Yes <input type="checkbox"/> No <input type="checkbox"/>
Part H. Termination for Cause/Termination for Default
Has the bidder had any public works contract terminated for cause by any government agency during the previous five (5) years?
Yes <input type="checkbox"/> No <input type="checkbox"/>
If “Yes”, attach a separate signed / dated statement listing each contract terminated, the government agency terminating the contract and the circumstances involving the termination for cause. The City will determine if there are extenuating circumstances acceptable to the City in its sole discretion.
Part I. Lawsuits
Has the bidder been involved in lawsuits (or arbitrations for those instances where arbitration is completed in lieu of a lawsuit) with judgments entered against the bidder for failure to meet terms on contracts in the previous five (5) years?
Yes <input type="checkbox"/> No <input type="checkbox"/>
If “Yes”, attach a list of lawsuits and/or arbitrations with judgments / arbitration awards entered against the bidder along with a written explanation of the circumstances surrounding each lawsuit and/or arbitration.
Part J. Work Experience
List at least three construction projects on the attached Work Experience Form, each of which meet all of the following criteria:
<ul style="list-style-type: none"> • Successfully completed within the last seven (7) years. • Water main installation, connection, and repairs and handling of asbestos materials. • Sewer main installation and connection. • Roadway repair, sidewalk repair/retrofit, rockery installation, RRFB system installation, and stormwater repairs. • Contract value exceeding \$1,000,000.00.

Part K. Signature	
<i>I hereby certify, warrant and declare under penalty of perjury that the information included herein is correct and complete. Failure to disclose requested information or submitting false or misleading information may result in rejection of my bid, termination of my contract, and may impact my firm's ability to bid on future projects.</i>	
Signature of Authorized Representative	Date
Printed Name of Authorized Representative	Title

Work Experience Form

List at least three construction projects on the attached Work Experience Form, each of which meet all of the following criteria:

- Successfully completed within the last seven (7) years.
- Water main installation, connection, and repairs and handling of asbestos materials.
- Sewer main installation and connection.
- Roadway repair, sidewalk repair/retrofit, rockery installation, RRFB system installation, and stormwater repairs.
- Contract value exceeding \$1,000,000.00.

1. _____

Contract Value \$ _____

2. _____

Contract Value \$ _____

3. _____

Contract Value \$ _____

4. _____

Contract Value \$ _____

5. _____

Contract Value \$ _____

SUBCONTRACTOR LIST

Per RCW 39.30.060, the bidder is required to submit as part of the bid the names of the subcontractors with whom the bidder will subcontract for performance of the work of HVAC (heating, ventilation, and air conditioning), plumbing as described in chapter 18.106 RCW, and electrical as described in chapter 19.28 RCW, or to name itself for the work and is also required to list the names of subcontractors with whom the bidder will subcontract for performance of the work of structural steel installation and rebar installation. The bidder shall not list more than one subcontractor for each category of work identified, unless subcontractors vary with bid alternates, in which case the bidder must indicate which subcontractor will be used for which alternate.

The work to be performed is to be listed below the subcontractor(s) name. The requirement to name the bidder's proposed HVAC, plumbing, electrical, structural steel installation, and rebar installation subcontractors applies only to proposed HVAC, plumbing, electrical, structural steel installation, and rebar installation subcontractors who will contract directly with the bidder submitting the bid to the public entity.

Failure to list subcontractors who are proposed to perform the work of HVAC (heating, ventilation and air conditioning), plumbing, and electrical, or to name itself to perform such work, or failing to name subcontractors who are proposed to perform structural steel installation or rebar installation, or naming more than one subcontractor to perform the same work will result in your bid being non-responsive and therefore void.

Subcontractor Name _____
Work to be Performed _____

Subcontractor Name _____
Work to be Performed _____

Subcontractor Name _____
Work to be Performed _____

Subcontractor Name
Work to be Performed

Subcontractor Name
Work to be Performed

CONTRACT DOCUMENTS

CONTRACT

**CITY OF PORT ORCHARD
POTTERY AVE NON-MOTORIZED IMPROVEMENTS
PUBLIC WORKS PROJECT No. PW2023-002
CONTRACT NO. _____**

THIS CONTRACT ("Contract") is made and entered into this ____ day of _____, 20__, by and between the City of Port Orchard, a municipality incorporated and existing under the laws of the State of Washington, hereinafter called the "City," and _____, hereinafter called the "Contractor."

WITNESSETH:

I. General Provisions.

A. Description of Work.

The Contractor, in consideration of the covenants, agreements and payments to be performed and made by the City, hereby covenants and agrees to furnish all labor, tools, materials, equipment and supplies required for, and to execute, construct and finish in full compliance with the Contract Documents, **Pottery Ave Non-Motorized Improvements**. The Contractor further agrees to perform all such work for the Contract Price stated in the Contractor's Bid Proposal dated _____, attached hereto and incorporated herein by this reference as if set forth in full. Contractor further represents that the services furnished under this Agreement will be performed in accordance with and as described in the attached plans and specifications and with the Port Orchard Municipal Code, the City's Public Works Standards, which includes (but is not limited to) the 2021 edition of the WSDOT Standard Specifications for Road, Bridge, and Municipal Construction (which shall apply except where noted otherwise). All of these standards are by this reference incorporated herein and made a part hereof. Contractor further represents that the services furnished under this Agreement will be performed in accordance with generally accepted professional practices within the Puget Sound region in effect at the time such services are performed.

The Contract Documents include:

Exhibit A -a confirmed copy of the Proposal made by the Contractor on_____, together with the Instructions to Bidders.

Exhibit B – The Project Manual for the Pottery Ave Non-Motorized Improvements Project.

Exhibit C – Retainage Options

All Exhibits to this Contract are by this reference incorporated herein and made a part hereof as if set forth in full.

B. Time of Completion.

Time is of the essence of this Contract. It is agreed that the work covered by this Contract shall start within 14 calendar days after Notice to Proceed is issued and that all construction shall be complete within **125 working days** after the Notice to Proceed Date.

C. Liquidated Damages.

It is further agreed that the City will suffer damage and be put to additional expense in the event that the Contractor shall not have the specified portions of the work completed in all its parts in the time specified, and as it may be difficult to accurately compute the amount of such damage, the Contractor expressly covenants and agrees to pay to the City liquidated damages, the sum as calculated by the equation shown in Section 1-08.9 of the WSDOT Standard Specifications, for each and every working day said work is not complete beyond the time shown in the Proposal.

II. Non-Discrimination.

During the performance of this Contract, the Contractor, for itself, its assignees, and successors in interest agrees to comply with the following non-discrimination statutes and authorities; including but not limited to compliance with the following Pertinent Non-Discrimination Authorities:

- Title VI of the Civil Rights Act of 1964 (42 U.S.C. § 2000d et seq., 78 stat. 252), (prohibits discrimination on the basis of race, color, national origin); and 49 C.F.R. Part 21.
- The Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970, (42 U.S.C. § 4601), (prohibits unfair treatment of persons displaced or whose property has been acquired because of Federal or Federal-aid programs and projects);
- Federal-Aid Highway Act of 1973, (23 U.S.C. § 324 et seq.), (prohibits discrimination on the basis of sex);
- Section 504 of the Rehabilitation Act of 1973, (29 U.S.C. § 794 et seq.), as amended, (prohibits discrimination on the basis of disability); and 49 C.F.R. Part 27;
- The Age Discrimination Act of 1975, as amended, (42 U.S.C. § 6101 et seq.), (prohibits discrimination on the basis of age);
- Airport and Airway Improvement Act of 1982, (49 USC§ 471, Section 4 7123), as amended, (prohibits discrimination based on race, creed, color, national origin, or sex);
- The Civil Rights Restoration Act of 1987, (PL 100-209), (Broadened the scope, coverage and applicability of Title VI of the Civil Rights Act of 1964, The Age Discrimination Act of 1975 and Section 504 of the Rehabilitation Act of 1973, by expanding the definition of the terms "programs or activities" to include all of the programs or activities of the Federal-aid recipients, sub- recipients and contractors, whether such programs or activities are Federally funded or not);

- Titles II and III of the Americans with Disabilities Act, which prohibit discrimination on the basis of disability in the operation of public entities, public and private transportation systems, places of public accommodation, and certain testing entities (42 U.S.C. §§ 12131-12189) as implemented by Department of Transportation regulations at 49 C.P.R. parts 37 and 38;
- The Federal Aviation Administration's Non-discrimination statute (49 U.S.C. § 47123) (prohibits discrimination on the basis of race, color, national origin, and sex);
- Executive Order 12898, Federal Actions to Address Environmental Justice in Minority Populations and Low-Income Populations, which ensures discrimination against minority populations by discouraging programs, policies, and activities with disproportionately high and adverse human health or environmental effects on minority and low-income populations;
- Executive Order 13166, Improving Access to Services for Persons with Limited English Proficiency, and resulting agency guidance, national origin discrimination includes discrimination because of limited English proficiency (LEP). To ensure compliance with Title VI, you must take reasonable steps to -ensure that LEP persons have meaningful access to your programs (70 Fed. Reg. at 74087 to 74100);
- Title IX of the Education Amendments of 1972, as amended, which prohibits you from discriminating because of sex in education programs or activities (20 U.S.C. 1681 et seq).

Title VI of the Civil Rights Act of 1964

The City of Port Orchard, in accordance with Title VI of the Civil Rights Act of 1964, 78 Stat. 252, 42 U.S.C. 2000d to 2000d-4 and Title 49, Code of Federal Regulations, Department of Transportation subtitle A, Office of the Secretary, Part 21, nondiscrimination in federally assisted programs of the Department of Transportation issued pursuant to such Act, must affirmatively ensure that its contracts comply with these regulations.

Also, in accordance with Title VI, the City is required to include the following clauses in every contract subject to Title VI and its related regulations.

Therefore, during the performance of this Contract, the Contractor, for itself, its assignees, and successors in interest agrees as follows:

1. **Compliance with Regulations:** The Contractor will comply with the Acts and the regulations relative to Nondiscrimination in Federally-assisted programs of the U.S. Department of Transportation, Federal Highway Administration (FHWA), as they may be amended from time to time, which are herein incorporated by reference and made a part of this Contract.
2. **Nondiscrimination:** The Contractor, with regard to the work performed by it during this Contract, will not discriminate on the grounds of race, color, national origin, sex, age, disability, income-level, or LEP in the selection and retention of subcontractors, including

procurements of materials and leases of equipment. The Contractor will not participate directly or indirectly in the discrimination prohibited by the Acts and the Regulations as set forth in Appendix A, attached hereto and incorporated herein by this reference, including employment practices when this Contract covers any activity, project, or program set forth in Appendix B of 49 C.F.R. part 21.

3. **Solicitations for Subcontracts, Including Procurements of Materials and Equipment:** In all solicitations, either by competitive bidding, or negotiation made by the Contractor for work to be performed under a subcontract, **including** procurements of materials, or leases of equipment, each potential subcontractor or supplier will be notified by the Contractor of the Contractor's obligations under this Contract and the Acts and the Regulations relative to Non-discrimination on the grounds of race, color, national origin, sex, age, disability, income-level, or LEP.
4. **Information and Reports:** The Contractor will provide all information and reports required by the Acts, the Regulations and directives issued pursuant thereto and will permit access to its books, records, accounts, other sources of information, and its facilities as may be determined by the City or the FHWA to be pertinent to ascertain compliance with such Acts, Regulations, and instructions. Where any information required of the Contractor is in the exclusive possession of another who fails or refuses to furnish the information, the Contractor will so certify to the City or the FHWA, as appropriate, and will set forth what efforts it has made to obtain the information.
5. **Sanctions for Noncompliance:** In the event of the Contractor's noncompliance with the Non-discrimination provisions of this Contract, the City will impose such contract sanctions as it or the FHWA may determine to be appropriate, including, but not limited to:
 1. withholding payments to the Contractor under the Contract until the Contractor complies; and/or
 2. cancelling, terminating, or suspending the Contract, in whole or in part.
6. **Incorporation of Provisions:** The Contractor will include the provisions of paragraphs one through six in every subcontract, including procurements of materials and leases of equipment, unless exempt by the Acts, the Regulations and directives issued pursuant thereto. The Contractor will take action with respect to any subcontract or procurement as the City or the FHWA may direct as a means of enforcing such provisions including sanctions for noncompliance. Provided, that if the Contractor becomes involved in, or is threatened with litigation by a subcontractor, or supplier because of such direction, the Contractor may request the City to enter into any litigation to protect the interests of the City. In addition, the Contractor may request the United States to enter into the litigation to protect the interests of the United States.

III. Public Records Act Chapter 42.56 RCW

Contractor understands that her/his bid response documents, and any contract documents may be subject to release under the Public Records Act Chapter 42.56 RCW and the City may be required to disclose such documents upon a request. Contractor acknowledges that s/he has been advised to mark any records believed to be trade secrets or confidential in nature as “confidential.” If records marked as “confidential” are found to be responsive to the request for records, the City as a courtesy to the Contractor, may elect to give notice to Contractor of the request so as to allow Contractor to seek a protective order from a Court. Contractor acknowledges and agrees that any records deemed responsive to a public records request may be released at the sole discretion of, and without notice by, the City.

IV. Termination

The City may terminate this contract for cause or for convenience.

1. **Termination for Cause.** The City may, upon 7 days written notice to Contractor and to its surety, terminate (without prejudice to any right or remedy of the City) the contract, or any part of it, for cause upon the occurrence of any one or more of the following events: Contractor fails to complete the work or any portion thereof with sufficient diligence to ensure substantial completion of the work within the contract time; Contractor is adjudged bankrupt, makes a general assignment for the benefit of its creditors, or a receiver is appointed on account of its insolvency; Contractor fails in a material way to replace or correct work not in conformance with the Contract Documents, Contractor repeatedly fails to supply skilled workers or proper materials or equipment; Contractor materially disregards or fails to comply with laws, ordinances, rules, regulations, or orders of any public authority having jurisdiction; or Contractor is otherwise in material breach of any provision of the contract. Upon termination, the City may, at its option, take possession of or use all documents, materials, equipment, tools, and construction equipment and machinery thereon owned by Contractor to maintain the orderly progress of, and to finish, the work, and finish the work by whatever other reasonable method it deems expedient.
2. **Termination for Convenience.** The City may, upon written notice, terminate (without prejudice to any right or remedy of the City) the contract, or any part of it, for the convenience of the City.
3. **Settlement of Costs.** If the City terminates for convenience, Contractor shall be entitled to make a request for an equitable adjustment for its reasonable direct costs incurred prior to the effective date of the termination, plus a reasonable allowance for overhead and profit on work performed prior to termination, plus the reasonable administrative costs of the termination, but shall not be entitled to any other costs or damages,

whatsoever, provided however, the total sum payable upon termination shall not exceed the Contract Sum reduced by prior payments.

V. Corporate Surety Bond

With this Contract, Contractor is furnishing a Corporate Surety Bond in the amount of

_____ Dollars (\$ _____) with _____ as Surety, to ensure full compliance, execution and performance of this Contract by the Contractor in accordance with all its terms and provisions.

VI. Independent Contractor.

The parties intend that an Independent Contractor-Employer Relationship will be created by this Agreement and that the Contractor has the ability to control and direct the performance and details of its work, the City being interested only in the results obtained under this Agreement.

VII. Employment of State Retirees.

The City is a “DRS-covered employer” which is an organization that employs one or more members of any retirement system administered by the Washington State Department of Retirement Systems (DRS). Pursuant to RCW 41.50.139(1) and WAC 415-02-325(1), the City is required to elicit on a written form if any of the Contractor’s employees providing services to the City retired using the 2008 Early Retirement Factors (ERFs), or if the Contractor is owned by an individual who retired using the 2008 ERFs, and whether the nature of the service and compensation would result in a retirement benefit being suspended. Failure to make this determination exposes the City to significant liability for pension overpayments. As a result, before commencing work under this Agreement, Contractor shall determine whether any of its employees providing services to the City or any of the Contractor’s owners retired using the 2008 ERFs, and shall immediately notify the City and shall promptly complete the form provided by the City after this notification is made. This notification to DRS could impact the payment of retirement benefits to employees and owners of Contractor. Contractor shall indemnify, defend, and hold harmless the City from any and all claims, damages, or other liability, including attorneys’ fees and costs, relating to a claim by DRS of a pension overpayment caused by or resulting from Contractor’s failure to comply with the terms of this provision. This provision shall survive termination of this Agreement.

VIII. Changes.

The City may issue a written change order for any change in the Contract work during the performance of this Agreement. If the Contractor determines, for any reason, that a change order is necessary, Contractor must submit a written change order request to the person listed in the Notice provision section of this Agreement, within fourteen (14) calendar days of the date Contractor knew or should have known of the facts and events giving rise to the requested change. If the City determines that the change increases or decreases the Contractor's costs or time for performance, the City will make an equitable adjustment. The City will attempt, in good faith, to reach agreement with the Contractor on all equitable adjustments. However, if the parties are unable to agree, the City will determine the equitable adjustment as it deems appropriate. The Contractor shall proceed with the change order work upon receiving either a written change order from the City or an oral order from the City before actually receiving the written change order. If the Contractor fails to require a change order within the time specified in this paragraph, the Contractor waives its right to make any claim or submit subsequent change order requests for that portion of the contract work. If the Contractor disagrees with the equitable adjustment, the Contractor must complete the change order work; however, the Contractor may elect to protest the adjustment as provided in subsections A through E of Section IX entitled, "Claims," below.

The Contractor accepts all requirements of a change order by: (1) endorsing it, (2) writing a separate acceptance, or (3) not protesting in the way this section provides. A change order that is accepted by Contractor as provided in this section shall constitute full payment and final settlement of all claims for contract time and for direct, indirect and consequential costs, including costs of delays related to any work, either covered or affected by the change.

IX. Claims. If the Contractor disagrees with anything required by a change order, another written order, or an oral order from the City, including any direction, instruction, interpretation, or determination by the City, the Contractor may file a claim as provided in this section. The Contractor shall give written notice to the City of all claims within fourteen (14) calendar days of the occurrence of the events giving rise to the claims, or within fourteen (14) calendar days of the date the Contractor knew or should have known of the facts or events giving rise to the claim, whichever occurs first. Any claim for damages, additional payment for any reason, or extension of time, whether under this Agreement or otherwise, shall be conclusively deemed to have been waived by the Contractor unless a timely written claim is made in strict accordance with the applicable provisions of this Agreement.

At a minimum, a Contractor's written claim shall include the information set forth in subsections A, items 1 through 5 below.

FAILURE TO PROVIDE A COMPLETE, WRITTEN NOTIFICATION OF CLAIM WITHIN THE TIME ALLOWED SHALL BE AN ABSOLUTE WAIVER OF ANY CLAIMS ARISING IN ANY WAY FROM THE FACTS OR EVENTS SURROUNDING THAT CLAIM OR CAUSED BY THAT DELAY.

A. Notice of Claim. Provide a signed written notice of claim that provides the following information:

1. The date of the Contractor's claim;
2. The nature and circumstances that caused the claim;
3. The provisions in this Agreement that support the claim;
4. The estimated dollar cost, if any, of the claimed work and how that estimate was determined; and
5. An analysis of the progress schedule showing the schedule change or disruption if the Contractor is asserting a schedule change or disruption.

B. Records. The Contractor shall keep complete records of extra costs and time incurred as a result of the asserted events giving rise to the claim. The City shall have access to any of the Contractor's records needed for evaluating the protest.

The City will evaluate all claims, provided the procedures in this section are followed. If the City determines that a claim is valid, the City will adjust payment for work or time by an equitable adjustment. No adjustment will be made for an invalid protest.

C. Contractor's Duty to Complete Protested Work. In spite of any claim, the Contractor shall proceed promptly to provide the goods, materials and services required by the City under this Agreement.

D. Failure to Protest Constitutes Waiver. By not protesting as this section provides, the Contractor also waives any additional entitlement and accepts from the City any written or oral order (including directions, instructions, interpretations, and determination).

E. Failure to Follow Procedures Constitutes Waiver. By failing to follow the procedures of this section, the Contractor completely waives any claims for protested work and accepts from the City any written or oral order (including directions, instructions, interpretations, and determination).

X. Limitation Of Actions.

CONTRACTOR MUST, IN ANY EVENT, FILE ANY LAWSUIT ARISING FROM OR CONNECTED WITH THIS AGREEMENT WITHIN 120 CALENDAR DAYS FROM THE DATE THE CONTRACT WORK IS COMPLETE OR CONTRACTOR'S ABILITY TO FILE THAT CLAIM OR SUIT SHALL BE FOREVER BARRED. THIS SECTION FURTHER LIMITS ANY APPLICABLE STATUTORY LIMITATIONS PERIOD.

XI. Warranty.

Upon acceptance of the contract work, Contractor must provide the City a two-year warranty bond in the amount of twenty percent (20%) of the contract price a form and amount acceptable to the City. The Contractor shall correct all defects in workmanship and materials within two (2) years from the date of the City's acceptance of the Contract work, including replacing vegetation that fails to thrive. In the event any parts are repaired or replaced, only original replacement parts shall be used—rebuilt or used parts will not be acceptable. When defects are corrected, the warranty for that portion of the work shall extend for one (1) additional year from the date such correction is completed and accepted by the City. The Contractor shall begin to correct any defects within seven (7) calendar days of its receipt of notice from the City of the defect. If the Contractor does not accomplish the corrections within a reasonable time as determined by the City, the City may complete the corrections and the Contractor shall pay all costs incurred by the City in order to accomplish the correction.

XII. Indemnification.

Contractor shall defend, indemnify, and hold the City, its officers, officials, employees, agents and volunteers harmless from any and all claims, injuries, damages, losses or suits, including all legal costs and attorney fees, arising out of or in connection with the Contractor's performance of this Agreement, except for that portion of the injuries and damages caused by the sole negligence of the City.

The City's inspection or acceptance of any of Contractor's work when completed shall not be grounds to avoid any of these covenants of indemnification.

Should a court of competent jurisdiction determine that this Agreement is subject to RCW 4.24.115, then, in the event of liability for damages arising out of bodily injury to persons or damages to property caused by or resulting from the concurrent negligence of the Contractor and the City, its officers, officials, employees, agents and volunteers, the Contractor's liability hereunder shall be only to the extent of the Contractor's negligence.

It is further specifically and expressly understood that the indemnification provided herein constitutes the contractor's waiver of immunity under Industrial Insurance, Title 51 RCW, solely for the purposes of this indemnification. The parties further acknowledge that they have mutually negotiated this waiver.

THE PROVISIONS OF THIS SECTION SHALL SURVIVE THE EXPIRATION OR TERMINATION OF THIS AGREEMENT.

XIII. Insurance.

The Contractor shall procure and maintain for the duration of the Agreement, insurance against claims for injuries to persons or damage to property which may arise from or in connection with the performance of the work hereunder by the Contractor, its agents, representative, employees or subcontractors.

No Limitation. Contractor's maintenance of insurance as required by the agreement shall not be construed to limit the liability of the Contractor to the coverage provided by such insurance, or otherwise limit the City's recourse to any remedy available at law or in equity.

A. Minimum Scope of Insurance. Contractor shall obtain insurance of the types described below:

1. Automobile Liability insurance covering all owned, non-owned, hired and leased vehicles. Coverage shall be written on Insurance Services Office (ISO) form CA 00 01 or a substitute form providing equivalent liability coverage. If necessary, the policy shall be endorsed to provide contractual liability coverage.

2. Commercial General Liability insurance shall be written on ISO occurrence form CG 00 01 and shall cover liability arising from premises, operations, stop gap liability, independent contractors, products-completed operations, personal injury and advertising injury, and liability assumed under an insured contract. The Commercial General Liability insurance shall be endorsed to provide the Aggregate Per Project Endorsement ISO form CG 25 03 11 85. There shall be no endorsement or modification of the Commercial General Liability insurance for liability arising from explosion, collapse or underground property damage. The City shall be named as an insured under the Contractor's Commercial General Liability insurance policy with respect to the work performed for the City using ISO Additional Insured endorsement CG 20 10 10 01 and Additional Insured-Completed Operations endorsement CG 20 37 10 01 or substitute endorsements providing equivalent coverage.

3. Workers' Compensation coverage as required by the Industrial Insurance laws of the State of Washington.

4. Builders Risk insurance covering interests of the City, the Contractor, Subcontractors, and Sub-subcontractors in the work. Builders Risk insurance shall be on a all-risk policy form and shall insure against the perils of fire and extended coverage and physical loss or damage including flood and earthquake, theft, vandalism, malicious mischief, collapse, temporary buildings and debris removal. This Builders Risk insurance covering the work will have a deductible of \$5,000 for each occurrence, which will be the responsibility of the Contractor. Higher deductibles for flood and earthquake perils may be accepted by the City upon written request by the Contractor and written acceptance by the City. Any increased deductibles accepted by the City will remain the responsibility

of the Contractor. The Builders Risk insurance shall be maintained until final acceptance of the work by the City.

B. Minimum Amounts of Insurance. Contractor shall maintain the following insurance limits:

1. Automobile Liability insurance with a minimum combined single limit for bodily injury and property damage of \$1,000,000 per accident.
2. Commercial General Liability insurance shall be written with limits no less than \$1,000,000 each occurrence, \$2,000,000 general aggregate and a \$2,000,000 products-completed operations aggregate limit.
3. Builders Risk insurance shall be written in the amount of the completed value of the project with no coinsurance provisions.

C. Other Insurance Provisions. The insurance policies are to contain, or be endorsed to contain, the following provisions for Automobile Liability, Commercial General Liability and Builders Risk insurance:

1. The Contractor's insurance coverage shall be primary insurance as respect the City. Any insurance, self-insurance, or insurance pool coverage maintained by the City shall be excess of the Contractor's insurance and shall not contribute with it.
2. The Contractor's insurance shall be endorsed to state that coverage shall not be cancelled by either party, except after thirty (30) days prior written notice by certified mail, return receipt requested, has been given to the City.

D. Contractor's Insurance for Other Losses. The Contractor shall assume full responsibility for all loss or damage from any cause whatsoever to any tools, Contractor's employee-owned tools, machinery, equipment, or motor vehicles owned or rented by the Contractor, or the Contractor's agents, suppliers or contractors as well as to any temporary structures, scaffolding and protective fences.

E. Waiver of Subrogation. The Contractor and the City waive all rights against each other any of their Subcontractors, Sub-subcontractors, agents and employees, each of the other, for damages caused by fire or other perils to the extend covered by Builders Risk insurance or other property insurance obtained pursuant to the Insurance Requirements Section of this Contract or other property insurance applicable to the work. The policies shall provide such waivers by endorsement or otherwise.

F. Acceptability of Insurers. Insurance is to be placed with insurers with a current A.M. Best rating of not less than A:VII.

G. Verification of Coverage. Contractor shall furnish the City with original certificates and a copy of the amendatory endorsements, including but not necessarily limited to the additional

insured endorsement, evidencing the Automobile Liability and Commercial General Liability insurance of the Contractor before commencement of the work. Before any exposure to loss may occur, the Contractor shall file with the City a copy of the Builders Risk insurance policy that includes all applicable conditions, exclusions, definitions, terms and endorsements related to this Project.

H. Subcontractors. Contractor shall ensure that each subcontractor of every tier obtain at a minimum the same insurance coverage and limits as stated herein for the Contractor (with the exception of Builders Risk insurance). Upon request the City, the Contractor shall provide evidence of such insurance.

XIV. WORK PERFORMED AT CONTRACTOR'S RISK.

Contractor shall take all necessary precautions and shall be responsible for the safety of its employees, agents, and subcontractors in the performance of the contract work and shall utilize all protection necessary for that purpose. All work shall be done at Contractor's own risk, and Contractor shall be responsible for any loss of or damage to materials, tools, or other articles used or held for use in connection with the work.

XV. MISCELLANEOUS PROVISIONS.

A. Non-Waiver of Breach. The failure of the City to insist upon strict performance of any of the covenants and agreements contained in this Agreement, or to exercise any option conferred by this Agreement in one or more instances shall not be construed to be a waiver or relinquishment of those covenants, agreements or options, and the same shall be and remain in full force and effect.

B. Resolution of Disputes and Governing Law. This Agreement shall be governed by and construed in accordance with the laws of the State of Washington. If the parties are unable to settle any dispute, difference or claim arising from the parties' performance of this Agreement, the exclusive means of resolving that dispute, difference or claim, shall only be by filing suit exclusively under the venue, rules and jurisdiction of the Kitsap County Superior Court, Kitsap County, Washington, unless the parties agree in writing to an alternative dispute resolution process. In any claim or lawsuit for damages arising from the parties' performance of this Agreement, each party shall pay all its legal costs and attorney's fees incurred in defending or bringing such claim or lawsuit, including all appeals, in addition to any other recovery or award provided by law; provided, however, nothing in this paragraph shall be construed to limit the City's right to indemnification under Section XII of this Agreement.

C. Written Notice. All communications regarding this Agreement shall be sent to the parties at the addresses listed on the signature page of the Agreement, unless notified to the contrary. Any written notice hereunder shall become effective three (3) business days after the date of mailing by registered or certified mail, and shall be deemed sufficiently given if sent to the

addressee at the address stated in this Agreement or such other address as may be hereafter specified in writing.

D. Assignment. Any assignment of this Agreement by either party without the written consent of the non-assigning party shall be void. If the non-assigning party gives its consent to any assignment, the terms of this Agreement shall continue in full force and effect and no further assignment shall be made without additional written consent.

E. Modification. No waiver, alteration, or modification of any of the provisions of this Agreement shall be binding unless in writing and signed by a duly authorized representative of the City and Contractor.

F. Entire Agreement. The written provisions and terms of this Agreement, together with any Exhibits attached hereto, shall supersede all prior verbal statements of any officer or other representative of the City, and such statements shall not be effective or be construed as entering into or forming a part of or altering in any manner this Agreement. All of the above documents are hereby made a part of this Agreement. However, should any language in any of the Exhibits to this Agreement conflict with any language contained in this Agreement, the terms of this Agreement shall prevail.

G. Compliance with Laws. The Contractor agrees to comply with all federal, state, and municipal laws, rules, and regulations that are now effective or in the future become applicable to Contractor's business, equipment, and personnel engaged in operations covered by this Agreement or accruing out of the performance of those operations.

H. Counterparts. This Agreement may be executed in any number of counterparts, each of which shall constitute an original, and all of which will together constitute this one Agreement. IN WITNESS WHEREOF the parties hereto have caused these presents to be duly executed.

CITY OF PORT ORCHARD

By: _____
Robert Putaansuu, Mayor

CONTRACTOR

By: _____
Title: _____
Address: _____

ATTEST:

Brandy Wallace, MMC, City Clerk

APPROVED AS TO FORM:

Charlotte Archer, City Attorney

NOTICES TO BE SENT TO:

CONTRACTOR:

NAME _____
ADDRESS _____
TELEPHONE _____
Email _____

CITY:

K. Chris Hammer, P.E., City Engineer
216 PROSPECT STREET, PORT ORCHARD, WA 98366
(360) 876-4991
publicworks@portorchardwa.gov

With a copy to the City Clerk at the same address

5% RETAINAGE INVESTMENT OPTION¹

Contractor: _____

Project Name: _____

Date: _____ Project Number: _____

Pursuant to RCW 60.28.010, as amended, you may exercise an option as to how the 5% retainage under this contract will be invested. Please complete and sign this form indicating your preference. If you fail to do so you will miss the benefit of any interest earned. Select one of the following options:

1. **Savings Account:** Money will be placed in an interest-bearing account. The interest will be paid to you directly, rather than kept on deposit. If this is your choice, then please complete attached *SAVINGS ACCOUNT AGREEMENT*. Please state the name of your bank.

Bank: _____

2. **Escrow/Investments:** The City will deliver retainage checks to a selected bank, pursuant to an escrow agreement. The bank will then invest the funds in securities or bonds selected by you, and interest will be paid to you as it accrues. If this is your choice then please complete attached *ESCROW AGREEMENT*.

Preferred Bank: _____

Securities/Bonds: _____

3. **Guarantee Deposit:** Retainage will be held by the City. No interest is payable to the Contractor

Retainage is normally released 45 days after final acceptance of the work or following receipt of Labor and Industries/Department of Revenue clearance, whichever date is the later. Retainage on landscaping work may be longer, due to its seasonal nature. However, if this project is subject to grant funding, then the retainage may also be held until such time as the Contractor meets its obligations to the City to provide required information and documentation for compliance with the grant funding requirements.

State law allows for limited early release of retainage in certain circumstance.

Contractor's Signature

Title

¹ If the Contractor opts to post a retainage bond under RCW 60.28.011, such bond shall be in a form acceptable to the City, shall be with a surety with a minimum of A.M. Best financial strength rating of a minimum of A-.

SAVING ACCOUNT AGREEMENT

TO BANK: _____ SAVINGS ACCOUNT NO: _____

BANK'S ADDRESS: _____

AGENCY: CITY OF PORT ORCHARD
216 Prospect Street
Port Orchard WA 98366

CONTRACT NO: _____

PROJECT TITLE: _____

The estimated completion date of contract is: _____

The undersigned, _____, herein referred to as the CONTRACTOR, has directed the CITY OF PORT ORCHARD, Washington, hereinafter referred to as the AGENCY, to deliver to you its warrants which shall be payable to you and the CONTRACTOR jointly. Such warrants are to be held and disposed of by you in accordance with the following instructions and upon the terms and conditions hereinafter set forth.

INSTRUCTIONS

1. Warrants or checks made payable to you and the CONTRACTOR jointly upon delivery to you shall be endorsed by you and forwarded for collection. The moneys will then be placed by you in an interest-bearing savings account.
2. When and as interest on the savings account accrues and is paid, you shall collect such interest and forward it to the CONTRACTOR at its address designated below unless otherwise directed by the CONTRACTOR.
3. You are not authorized to deliver to the CONTRACTOR all or any part of the principal held by you pursuant to this agreement, except in accordance with written instruction from the AGENCY. Compliance with such instructions shall relieve you of any further liability related thereto.
4. The CONTRACTOR agrees to pay you as compensation for your services hereunder as follows:
Payment of all fees shall be the sole responsibility of the CONTRACTOR and shall not be deducted from any moneys placed with you pursuant to this agreement until and unless the AGENCY directs the release to the CONTRACTOR, whereupon you shall be granted a first lien upon such moneys released and shall be entitled to reimburse yourself from such moneys for the entire amount of your fees as provided for herein above. In the event that you are made a party to any litigation with respect to the moneys held by you hereunder, or in the event that the conditions of this agreement are not promptly fulfilled, or that you are required to render any service not provided for in these

instructions, or that there is any assignment of the interests of this agreement, or any modification hereof, you shall be entitled to reasonable compensation for such extraordinary services from the CONTRACTOR and reimbursement from the CONTRACTOR for all costs and expenses, including attorney fees occasioned by such default, delay, controversy or litigation.

5. This agreement shall not be binding until executed by the CONTRACTOR and the AGENCY and accepted by you.
6. This instrument contains the entire agreement between you, the CONTRACTOR and the AGENCY. You are not a party to nor bound by any instrument or agreement other than this. You shall not be required to take notice of any default or any other matter nor be bound by nor required to give notice or demand, nor required to take any action whatever except as herein expressly provided. You shall not be liable for any loss or damage not caused by your own negligence or willful misconduct.
7. The foregoing provisions shall be binding upon the assigns, successors, personal representative and heir of the Parties hereto.

Contractor

CITY OF PORT ORCHARD
Agency

BY: _____

BY: _____

Title: _____

Date: _____

Date: _____

Address: _____

The above savings account agreement and instruction received and accepted this _____ day of _____, 20__

Bank Name

Authorized Bank Officer

ESCROW AGREEMENT

TO BANK: _____ ESCROW NO.: _____

BANK'S ADDRESS: _____

AGENCY: CITY OF PORT ORCHARD
216 Prospect Street
Port Orchard WA 98366

CONTRACT NO.: _____

PROJECT TITLE: _____

The estimated completion date of contract is: _____

The undersigned, _____, herein referred to as the CONTRACTOR, has directed the CITY OF PORT ORCHARD, Washington, hereinafter referred to as the AGENCY, to deliver to you its warrants which shall be payable to you and the CONTRACTOR jointly. Such warrants are to be held and disposed of by you in accordance with the following instructions and upon the terms and conditions hereinafter set forth.

INSTRUCTIONS

1. Warrants or checks made payable to you and the CONTRACTOR jointly upon delivery to you shall be endorsed by you and forwarded for collection. The moneys will then be used by you to purchase, as directed by the CONTRACTOR, bonds or other securities chosen by the CONTRACTOR and approved by the AGENCY. Attached is a list of such bonds, or other securities approved by the AGENCY. Other bonds or securities, except stocks may be selected by the CONTRACTOR, subject to express written approval of the AGENCY. Purchase of such bonds or other securities shall be in a form which shall allow you alone to reconvert such bonds or other securities into money if you are required to do so by the AGENCY as provided in Paragraph 4 of this Escrow Agreement.
2. When and as interest on the securities held by you pursuant to this agreement accrues and is paid, you shall collect such interest and forward it to the CONTRACTOR at its address designated below unless otherwise directed by the CONTRACTOR.
3. You are not authorized to deliver to the CONTRACTOR all or any part of the securities held by you pursuant to this agreement (or any moneys derived from the sale of such securities,

or the negotiation of the AGENCY'S warrants) except in accordance with written instructions from the AGENCY. Compliance with such instruction shall relieve you of any further liability related thereto.

4. In the event the AGENCY orders you to do so in writing, you shall within thirty-five (35) days of receipt of such order, reconvert into money the securities held by you pursuant to this agreement and return such money together with any other moneys held by you hereunder, to the AGENCY.
5. The CONTRACTOR agrees to pay you as compensation for your services hereunder as follows:

Payment of all fees shall be the sole responsibility of the CONTRACTOR and shall not be deducted from any property placed with you pursuant to this agreement until and unless the AGENCY directs the release to the CONTRACTOR of the securities and moneys held hereunder whereupon you shall be granted a first lien upon such property released and shall be entitled to reimburse yourself from such property for the entire amount of your fees as provided for herein above. In the event that are made a party to any litigation with respect to the property held by you hereunder, or in the event that the conditions of this escrow are not promptly fulfilled or that you are required to render any service not provided for in these instructions, or that there is any assignment of the interest of this escrow or any modification hereof, you shall be entitled to reasonable compensation for such extraordinary services from the CONTRACTOR and reimbursement from the CONTRACTOR for all costs and expenses, including attorney fees occasioned by such default, delay, controversy or litigation.

6. This agreement shall not be binding until executed by the CONTRACTOR and the AGENCY and accepted by you.
7. This instrument contains the entire agreement between you, the CONTRACTOR and the AGENCY with respect to this escrow and you are not a party to nor bound by any instrument or agreement other than this; you shall not be required to take notice of any default or any other matter nor be bound by nor be bound by nor required to give notice or demand , nor required to take action whatever except as herein expressly provided; you shall not be liable for any loss or damage not caused by your own negligence or willful misconduct.

The foregoing provision shall be binding upon the assigns, successors, personal representative, and heir of the Parties hereto.

Contractor

CITY OF PORT ORCHARD
Agency

By: _____

By: _____

Title: _____

Date: _____

Date: _____

Address: _____

The above escrow agreement and instruction received and accepted this _____ day of _____, 20__.

Bank Name

Authorized Bank Officer

SECURITIES AUTHORIZED BY AGENCY

1. Bills, certificates, notes or bonds of the United States;
2. Other obligations of the United States or its agencies;
3. Obligation of any corporation wholly-owned by the government of the United States;
4. Indebtedness of the Federal Nation Mortgage Association; and
5. Time deposits in commercial banks.

PERFORMANCE AND PAYMENT BOND

CITY OF PORT ORCHARD
POTTERY AVE NON-MOTORIZED IMPROVEMENTS PROJECT
PW PROJECT NO. 2023-002
Bond to City of Port Orchard, Washington
Bond No. _____

We, _____, and _____
(Principal) (Surety)

a _____ Corporation, and as a surety corporation authorized to become a surety upon Bonds of Contractors with municipal corporations in Washington State, are jointly and severally bound to the City of Port Orchard, Washington ("Owner"), in the penal sum of _____ Dollars (\$_____), the payment of which sum, on demand, we bind ourselves and our successors, heirs, administrators, executors, or personal representatives, as the case may be. This Performance Bond is provided to secure the performance of Principal in connection with a contract dated _____, 20____, between Principal and Owner for a project entitled _____ ("Project") – Public Works Project No. PW2023-002 ("Contract"). The initial penal sum shall equal 100 percent of the Total Bid Price, including all applicable state sales tax, as specified in the Proposal submitted by Principal.

NOW, THEREFORE, this Performance and Payment Bond shall be satisfied and released only upon the condition that Principal:

Faithfully performs all provisions of the Contract and changes authorized by Owner in the manner and within the time specified as may be extended under the Contract;

Pays all laborers, mechanics, subcontractors, lower tier subcontractors, material-persons, and all other persons or agents who supply labor, equipment, or materials to the Project;

Pays the taxes, increases and penalties incurred on the Project under Titles 50, 51 and 82 RCW on: (A) Projects referred to in RCW 60.28.011(1)(b); and/or (B) Projects for which the bond is conditioned on the payment of such taxes, increases and penalties; and

Posts a two-year warranty/maintenance bond to secure the project. Such bond shall be in the amount of twenty percent (20%) of the project costs.

Provided, further that this bond shall remain in full force and effect until released in writing by the City at the request of the Surety or Principal.

The surety shall indemnify, defend, and protect the Owner against any claim of direct or indirect

loss resulting from the failure:

Of the Principal (or any of the employees, subcontractors, or lower tier subcontractors of the Principal) to faithfully perform the Contract, or

Of the Principal (or any subcontractor or lower tier subcontractor of the Principal) to pay all laborers, mechanics, subcontractors, lower tier subcontractors, material person, or any other person who provides supplies or provisions for carrying out the work.

The liability of Surety shall be limited to the penal sum of this Performance and Payment Bond.

No change, extension of time, alteration, or addition to the terms of the Contract or to the Work to be performed under the Contract shall in any way affect Surety's obligation on the Performance Bond. Surety hereby waives notice of any change, extension of time, alteration, or addition to the terms of the Contract or the Work, with the exception that Surety shall be notified if the Contract time is extended by more than twenty percent (20%).

If any modification or change increases the total amount to be paid under the Contract, Surety's obligation under this Performance and Payment Bond shall automatically increase in a like amount. Any such increase shall not exceed twenty-five percent (25%) of the original amount of the Performance and Payment Bond without the prior written consent of Surety.

This Performance and Payment Bond shall be governed and construed by the laws of the State of Washington, and venue shall be in Kitsap County, Washington.

IN WITNESS WHEREOF, the parties have executed this instrument in two (2) identical counterparts this _____ day of _____, 20 ____.

Principal

Surety

Signature of Authorized Official

Signature of Authorized Official

Printed Name and Title

By _____
Attorney in Fact (Attach Power of Attorney)

Name and address of local office of
Agent and/or Surety Company:

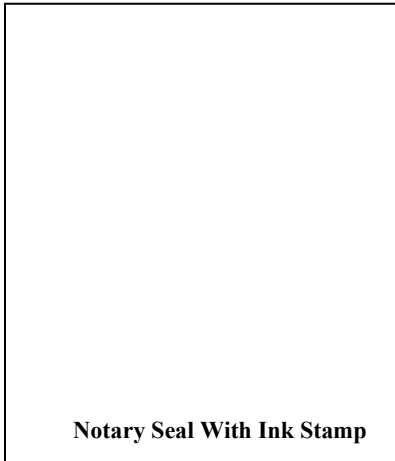
Surety companies executing bonds must appear on the current Authorized Insurance List in the State of Washington per Section 1-02.7 of the Standard Specifications.

SURETY ACKNOWLEDGEMENT

STATE OF _____)
)ss.
COUNTY OF _____)

On this _____ day of _____, 20____, before me, the undersigned, a Notary Public in and for the State of Washington, duly commissioned and sworn, personally appeared _____, to me known to be the _____ of _____, the corporation that executed the foregoing instrument, and acknowledged the said instrument to be the free and voluntary act and deed of said corporation, for the uses and purposes therein mentioned, and on oath stated that they are authorized to execute said instrument.

WITNESS my hand and official seal hereto affixed the day and year first above written.



Print or type name

NOTARY PUBLIC,
in and for the State of Washington
Residing _____
My Commission expires: _____

**CITY OF PORT ORCHARD
MAINTENANCE/WARRANTY BOND**

*Note: **This form must be completed at Contract Completion.** Before the Performance Bond or retainage can be released, the City must receive the two year Maintenance/Warranty Bond*

Project #: _____
Contract #: _____
Surety Bond #: _____
Date Posted: _____
Expiration Date: _____

RE: Project Name: _____
Owner/Developer/Contractor: _____
Project Address: _____

KNOW ALL PERSONS BY THESE PRESENTS: That we, _____ (hereinafter called the "Principal"), and _____, a corporation organized under the laws of the State of _____, and authorized to transact surety business in the State of Washington (hereinafter called the "Surety"), are held and firmly bound unto the City of Port Orchard, Washington, in the sum of _____ dollars (\$ _____) 20% of the total contract amount, lawful money of the United States of America, for the payment of which sum we and each of us bind ourselves, our heirs, executors, administrators, successors and assigns, jointly and severally, by these presents. THE CONDITIONS of the above obligation are such that:

WHEREAS, the above named Principal has constructed and installed certain improvements on public property in connection with a project as described above within the City of Port Orchard; and

WHEREAS, the Principal is required to post a bond for the twenty-four (24) months following written and final acceptance of the project in order to provide security for the obligation of the Principal to repair and/or replace said improvements against defects in workmanship, materials or installation during the twenty-four (24) months after written and final approval/acceptance of the same by the City;

NOW, THEREFORE, this Maintenance Bond has been secured and is hereby submitted to the City. It is understood and agreed that this obligation shall continue in effect until released in writing by the City, but only after the Principal has performed and satisfied the following conditions:

- A. The work or improvements installed by the Principal and subject to the terms and conditions of this Bond are as follows: (insert complete description of work here)
- B. The Principal and Surety agree that the work and improvements installed in the above-referenced project shall remain free from defects in material, workmanship and installation (or, in the case of landscaping, shall survive,) for a period of twenty-four (24) months after written

and final acceptance of the same and approval by the City. Maintenance is defined as acts carried out to prevent a decline, lapse or cessation of the state of the project or improvements as accepted by the City during the twenty-four (24) month period after final and written acceptance, and includes, but is not limited to, repair or replacement of defective workmanship, materials or installations.

C. The Principal shall, at its sole cost and expense, carefully replace and/or repair any damage or defects in workmanship, materials or installation to the City-owned real property on which improvements have been installed and leave the same in as good condition or better as it was before commencement of the work.

D. The Principal and the Surety agree that in the event any of the improvements or restoration work installed or completed by the Principal as described herein, fail to remain free from defects in materials, workmanship or installation (or in the case of landscaping, fail to survive), for a period of twenty-four (24) months from the date of approval/acceptance of the work by the City, the Principal shall repair and/replace the same within ten (10) days of demand by the City, and if the Principal should fail to do so, then the Surety shall:

1. Within twenty (20) days of demand of the City, make written commitment to the City that it will either:
 - a). remedy the default itself with reasonable diligence pursuant to a time schedule acceptable to the City; or
 - b). tender to the City within an additional ten (10) days the amount necessary, as determined by the City, for the City to remedy the default, up to the total bond amount.

Upon completion of the Surety's duties under either of the options above, the Surety shall then have fulfilled its obligations under this bond. If the Surety elects to fulfill its obligation pursuant to the requirements of subsection D(1)(b), the City shall notify the Surety of the actual cost of the remedy, upon completion of the remedy. The City shall return, without interest, any overpayment made by the Surety, and the Surety shall pay to the City any actual costs which exceeded the City estimate, limited to the bond amount.

2. In the event the Principal fails to make repairs or provide maintenance within the time period requested by the City, then the City, its employees and agents shall have the right at the City's sole election to enter onto said property described above for the purpose of repairing or maintaining the improvements. This provision shall not be construed as creating an obligation on the part of the City or its representatives to repair or maintain such improvements.

E. Corrections. Any corrections required by the City shall be commenced within ten (10) days of notification by the City and completed within thirty (30) days of the date of notification. If the work is not performed in a timely manner, the City shall have the right, without recourse to legal action, to take such action under this bond as described in Section D above.

F. Extensions and Changes. No change, extension of time, alteration or addition to the work to be performed by the Principal shall affect the obligation of the Principal or Surety on this bond, unless the City specifically agrees, in writing, to such alteration, addition, extension or change. The Surety waives notice of any such change, extension, alteration or addition thereunder.

G. Enforcement. It is specifically agreed by and between the parties that in the event any legal action must be taken to enforce the provisions of this bond or to collect said bond, the prevailing party shall be entitled to collect its costs and reasonable attorney fees as a part of the reasonable costs of securing the obligation hereunder. In the event of settlement or resolution of these issues prior to the filing of any suit, the actual costs incurred by the City, including reasonable attorney fees, shall be considered a part of the obligation hereunder secured. Said costs and reasonable legal fees shall be recoverable by the prevailing party, not only from the proceeds of this bond, but also over and above said bond as a part of any recovery (including recovery on the bond) in any judicial proceeding. The Surety hereby agrees that this bond shall be governed by the laws of the State of Washington. Venue of any litigation arising out of this bond shall be in Kitsap County Superior Court.

H. Bond Expiration. This bond shall remain in full force and effect until the obligations secured hereby have been fully performed and until released in writing by the City at the request of the Surety or Principal.

DATED this ____ day of _____, 20__.

SURETY COMPANY

DEVELOPER/OWNER

(Signature must be notarized)

(Signature must be notarized)

By: _____

By: _____

Its: _____

Its: _____

Business Name: _____

Business Name: _____

Business Address: _____

Business Address: _____

City/State/Zip Code: _____

City/State/Zip Code: _____

Telephone Number: _____

Telephone Number: _____

CHECK FOR ATTACHED NOTARY SIGNATURE

____ Developer/Owner (Form P-1)

____ Surety Company (Form P-2)

FORM P1-NOTARY BLOCK

(Developer/Owner)

STATE OF WASHINGTON)
) ss.
COUNTY OF)

I certify that I know or have satisfactory evidence that _____ is the person who appeared before me, and said person acknowledged as the _____ of _____ that they signed this instrument, on oath stated that they are authorized to execute the instrument and acknowledged it to be their free and voluntary act for the uses and purposes mentioned in the instrument.

Dated: _____

(print or type name)

NOTARY PUBLIC in and for the
State of Washington, residing
at: _____

My Commission expires: _____

FORM P2-NOTARY BLOCK

(Surety Company)

STATE OF WASHINGTON)
) ss.
COUNTY OF)

I certify that I know or have satisfactory evidence that _____ is the person who appeared before me, and said person acknowledged as the _____ of _____ that they signed this instrument, on oath stated that they are authorized to execute the instrument and acknowledged it to be their free and voluntary act for the uses and purposes mentioned in the instrument.

Dated: _____

(print or type name)

NOTARY PUBLIC in and for the
State of Washington, residing
at: _____
My Commission expires: _____

APPENDIX A

POTTERY AVE NON-MOTORIZED IMPROVEMENTS CONTRACT PROVISIONS AND SPECIFICATIONS

Certificate Page

City of Port Orchard
Department of Public Works

Pottery Ave Non-Motorized Improvements Project

The civil engineering material and data contained in the Plans and Specifications were prepared under the supervision and direction of the undersigned, whose seal(s) as a registered professional engineer is/are affixed below.

Recommended for approval:

Plans and Divisions 2-9



Civil Engineer II
Christian Williams, PE

Project Manual and Division 1



City Engineer
Kenneth C. Hammer, PE, PMP

Approved:

A handwritten signature in blue ink that reads "Denis Ryan".

Public Works Director
Denis Ryan

1 **INTRODUCTION TO THE SPECIAL PROVISIONS**

2
3
4 *(December 10, 2020 APWA GSP)*

5
6 The work on this project shall be accomplished in accordance with the *Standard Specifications*
7 *for Road, Bridge and Municipal Construction*, 2024 edition, as issued by the Washington State
8 Department of Transportation (WSDOT) and the American Public Works Association (APWA),
9 Washington State Chapter (hereafter "Standard Specifications"). The Standard
10 Specifications, as modified or supplemented by these Special Provisions, all of which are
11 made a part of the Contract Documents, shall govern all of the Work.
12

13 These Special Provisions are made up of both General Special Provisions (GSPs) from
14 various sources, which may have project-specific fill-ins; and project-specific Special
15 Provisions. Each Provision either supplements, modifies, or replaces the comparable
16 Standard Specification, or is a new Provision. The deletion, amendment, alteration, or addition
17 to any subsection or portion of the Standard Specifications is meant to pertain only to that
18 particular portion of the section, and in no way should it be interpreted that the balance of the
19 section does not apply.
20

21 The project-specific Special Provisions are not labeled as such. The GSPs are labeled under
22 the headers of each GSP, with the effective date of the GSP and its source. For example:

23
24 *(March 8, 2013 APWA GSP)*
25 *(April 1, 2013 WSDOT GSP)*
26

27 Also incorporated into the Contract Documents by reference are:

- 28 • *Manual on Uniform Traffic Control Devices for Streets and Highways*, currently adopted
29 edition, with Washington State modifications, if any
- 30 • *Standard Plans for Road, Bridge and Municipal Construction*, WSDOT/APWA, current
31 edition
- 32 • *City of Port Orchard Public Works Engineering Standards and Specifications*, currently
33 adopted edition
34

35 Contractor shall obtain copies of these publications, at Contractor's own expense.
36

37 **Division 1**
38 **General Requirements**

39
40 **DESCRIPTION OF WORK**

41
42 (March 13, 1995)
43 This Contract provides for the improvement of Pottery Avenue and utilities within the roadway
44 and other work, all in accordance with the attached Contract Plans, these Contract Provisions,
45 and the Standard Specifications.
46

47 **Division 1**
48 **General Requirements**

49
50 **Definition and Terms**
51

1 **1-01.3 Definitions**
2 *(January 19, 2022 APWA GSP)*

3
4 Delete the heading **Completion Dates** and the three paragraphs that follow it, and replace
5 them with the following:
6

7 **Dates**

8 ***Bid Opening Date***

9 The date on which the Contracting Agency publicly opens and reads the Bids.

10 ***Award Date***

11 The date of the formal decision of the Contracting Agency to accept the lowest
12 responsible and responsive Bidder for the Work.

13 ***Contract Execution Date***

14 The date the Contracting Agency officially binds the Agency to the Contract.

15 ***Notice to Proceed Date***

16 The date stated in the Notice to Proceed on which the Contract time begins.

17 ***Substantial Completion Date***

18 The day the Engineer determines the Contracting Agency has full and unrestricted
19 use and benefit of the facilities, both from the operational and safety standpoint, any
20 remaining traffic disruptions will be rare and brief, and only minor incidental work,
21 replacement of temporary substitute facilities, plant establishment periods, or
22 correction or repair remains for the Physical Completion of the total Contract.

23 ***Physical Completion Date***

24 The day all of the Work is physically completed on the project. All documentation
25 required by the Contract and required by law does not necessarily need to be
26 furnished by the Contractor by this date.

27 ***Completion Date***

28 The day all the Work specified in the Contract is completed and all the obligations of
29 the Contractor under the contract are fulfilled by the Contractor. All documentation
30 required by the Contract and required by law must be furnished by the Contractor
31 before establishment of this date.

32 ***Final Acceptance Date***

33 The date on which the Contracting Agency accepts the Work as complete.
34

35 Supplement this Section with the following:
36

37 All references in the Standard Specifications or WSDOT General Special Provisions, to
38 the terms "Department of Transportation", "Washington State Transportation
39 Commission", "Commission", "Secretary of Transportation", "Secretary", "Headquarters",
40 and "State Treasurer" shall be revised to read "Contracting Agency".
41

42 All references to the terms "State" or "state" shall be revised to read "Contracting
43 Agency" unless the reference is to an administrative agency of the State of Washington,
44 a State statute or regulation, or the context reasonably indicates otherwise.
45

46 All references to "State Materials Laboratory" shall be revised to read "Contracting
47 Agency designated location".
48

1 All references to “final contract voucher certification” shall be interpreted to mean the
2 Contracting Agency form(s) by which final payment is authorized, and final completion
3 and acceptance granted.
4

5 **Additive**

6 A supplemental unit of work or group of bid items, identified separately in the Bid
7 Proposal, which may, at the discretion of the Contracting Agency, be awarded in addition
8 to the base bid.
9

10 **Alternate**

11 One of two or more units of work or groups of bid items, identified separately in the Bid
12 Proposal, from which the Contracting Agency may make a choice between different
13 methods or material of construction for performing the same work.
14

15 **Business Day**

16 A business day is any day from Monday through Friday except holidays as listed in
17 Section 1-08.5.
18

19 **Contract Bond**

20 The definition in the Standard Specifications for “Contract Bond” applies to whatever
21 bond form(s) are required by the Contract Documents, which may be a combination of a
22 Payment Bond and a Performance Bond.
23

24 **Contract Documents**

25 See definition for “Contract”.
26

27 **Contract Time**

28 The period of time established by the terms and conditions of the Contract within which
29 the Work must be physically completed.
30

31 **Notice of Award**

32 The written notice from the Contracting Agency to the successful Bidder signifying the
33 Contracting Agency’s acceptance of the Bid Proposal.
34

35 **Notice to Proceed**

36 The written notice from the Contracting Agency or Engineer to the Contractor authorizing
37 and directing the Contractor to proceed with the Work and establishing the date on which
38 the Contract time begins.
39

40 **Traffic**

41 Both vehicular and non-vehicular traffic, such as pedestrians, bicyclists, wheelchairs, and
42 equestrian traffic.
43

44 **Bid Procedures and Conditions**

45 **Prequalification of Bidders**
46
47

1 **1-02 BID PROCEDURES AND CONDITIONS**

2

3 **1-02.1 Prequalification of Bidders**

4

5 Delete this section and replace it with the following:

6

7 **1-02.1 Qualifications of Bidder**

8

(January 24, 2011 APWA GSP)

9

10 Before award of a public works contract, a bidder must meet at least the minimum
11 qualifications of RCW 39.04.350(1) to be considered a responsible bidder and qualified to
12 be awarded a public works project.

13

14 **1-02.2 Plans and Specifications**

15

(June 27, 2011 APWA GSP)

16

17 Delete this section and replace it with the following:

18

19 Information as to where Bid Documents can be obtained or reviewed can be found in the
20 Call for Bids (Advertisement for Bids) for the work.

21

22 After award of the contract, plans and specifications will be issued to the Contractor at no
23 cost as detailed below:

24

To Prime Contractor	No. of Sets	Basis of Distribution
Reduced plans (11" x 17")	1	Furnished automatically upon award.
Contract Provisions	1	Furnished automatically upon award.
Large plans (e.g., 22" x 34")	N/A	Furnished only upon request.

25

26 Additional plans and Contract Provisions may be obtained by the Contractor from the
27 source stated in the Call for Bids, at the Contractor's own expense.

28

29 **Examination of Plans, Specifications and Site of Work**

30

31 **General**

32

33 **1-02.4(1) General**

34

(December 30, 2022 APWA GSP Option A)

35

36 The first sentence of the ninth paragraph, beginning with "Prospective Bidder desiring...",
37 is revised to read:

38

39 Prospective Bidders desiring an explanation or interpretation of the Bid Documents,
40 shall request the explanation or interpretation in writing soon enough to allow a written
41 reply to reach all prospective Bidders before the submission of their Bids.

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1-02.5 Proposal Forms
(July 31, 2017 APWA GSP)

Delete this section and replace it with the following:

The Proposal Form will identify the project and its location and describe the work. It will also list estimated quantities, units of measurement, the items of work, and the materials to be furnished at the unit bid prices. The bidder shall complete spaces on the proposal form that call for, but are not limited to, unit prices; extensions; summations; the total bid amount; signatures; date; and, where applicable, retail sales taxes and acknowledgment of addenda; the bidder's name, address, telephone number, and signature; the bidder's UDBE/DBE/M/WBE commitment, if applicable; a State of Washington Contractor's Registration Number; and a Business License Number, if applicable. Bids shall be completed by typing or shall be printed in ink by hand, preferably in black ink. The required certifications are included as part of the Proposal Form.

The Contracting Agency reserves the right to arrange the proposal forms with alternates and additives, if such be to the advantage of the Contracting Agency. The bidder shall bid on all alternates and additives set forth in the Proposal Form unless otherwise specified.

Preparation of Proposal

1-02.6 Preparation of Proposal
(December 10, 2020 APWA GSP, Option B)

Supplement the second paragraph with the following:

4. If a minimum bid amount has been established for any item, the unit or lump sum price must equal or exceed the minimum amount stated.
5. Any correction to a bid made by interlineation, alteration, or erasure, shall be initialed by the signer of the bid.

Delete the last two paragraphs, and replace them with the following:

The Bidder shall submit with their Bid a completed Contractor Certification Wage Law Compliance form, provided by the Contracting Agency. Failure to return this certification as part of the Bid Proposal package will make this Bid Nonresponsive and ineligible for Award. A Contractor Certification of Wage Law Compliance form is included in the Proposal Forms.

The Bidder shall make no stipulation on the Bid Form, nor qualify the bid in any manner.

A bid by a corporation shall be executed in the corporate name, by the president or a vice president (or other corporate officer accompanied by evidence of authority to sign).

A bid by a partnership shall be executed in the partnership name, and signed by a partner. A copy of the partnership agreement shall be submitted with the Bid Form if any UDBE requirements are to be satisfied through such an agreement.

1 A bid by a joint venture shall be executed in the joint venture name and signed by a
2 member of the joint venture. A copy of the joint venture agreement shall be submitted
3 with the Bid Form if any UDBE requirements are to be satisfied through such an
4 agreement.
5

6 **Delivery of Proposal**

7 **1-02.9 Delivery of Proposal**

8 *(January 19, 2022 APWA GSP, Option A)*
9

10 Delete this section and replace it with the following:
11

12
13 Each Proposal shall be submitted in a sealed envelope, with the Project Name and
14 Project Number as stated in the Call for Bids clearly marked on the outside of the
15 envelope, or as otherwise required in the Bid Documents, to ensure proper handling and
16 delivery.
17

18 To be considered responsive on a FHWA-funded project, the Bidder may be required to
19 submit the following items, as required by Section 1-02.6:
20

- 21 • DBE Utilization Certification (WSDOT 272-056)
- 22 • DBE Written Confirmation Document (WSDOT 422-031) from each DBE firm
- 23 listed on the Bidder's completed DBE Utilization Certification
- 24 • Good Faith Effort (GFE) Documentation
- 25 • DBE Bid Item Breakdown (WSDOT 272-054)
- 26 • DBE Trucking Credit Form (WSDOT 272-058)
27

28 **DBE Utilization Certification**

29 The DBE Utilization Certification shall be received at the same location and no later than
30 the time required for delivery of the Proposal. The Contracting Agency will not open or
31 consider any Proposal when the DBE Utilization Certification is received after the time
32 specified for receipt of Proposals or received in a location other than that specified for
33 receipt of Proposals. The DBE Utilization Certification may be submitted in the same
34 envelope as the Bid deposit.
35

36 **DBE Written Confirmation and/or GFE Documentation**

37 The DBE Written Confirmation Documents and/or GFE Documents are not required to
38 be submitted with the Proposal. The DBE Written Confirmation Document(s) and/or GFE
39 (if any) shall be received either with the Bid Proposal or as a Supplement to the Bid. The
40 documents shall be received no later than 48 hours (not including Saturdays, Sundays
41 and Holidays) after the time for delivery of the Proposal. To be considered responsive,
42 Bidders shall submit Written Confirmation Documentation from each DBE firm listed on
43 the Bidder's completed DBE Utilization Certification and/or the GFE as required by
44 Section 1-02.6.
45

46 **DBE Bid Item Breakdown and DBE Trucking Credit Form**

47 The DBE Bid Item Breakdown and the DBE Trucking Credit Forms (if applicable) shall be
48 received either with the Bid Proposal or as a Supplement to the Bid. The documents
49 shall be received no later than 48 hours (not including Saturdays, Sundays and Holidays)
50 after the time for delivery of the Proposal. To be considered responsive, Bidders shall
51 submit a completed DBE Bid Item Breakdown and a DBE Trucking Credit Form for each
52 DBE Trucking firm listed on the DBE Utilization Certification, however, minor errors and

1 corrections to DBE Bid Item Breakdown or DBE Trucking Credit Forms will be returned
2 for correction for a period up to five calendar days (not including Saturdays, Sundays
3 and Holidays) after the time for delivery of the Proposal. A DBE Bid Item Breakdown or
4 DBE Trucking Credit Forms that are still incorrect after the correction period will be
5 determined to be non-responsive.
6

7 Proposals that are received as required will be publicly opened and read as specified in
8 Section 1-02.12. The Contracting Agency will not open or consider any Bid Proposal that
9 is received after the time specified in the Call for Bids for receipt of Bid Proposals, or
10 received in a location other than that specified in the Call for Bids. The Contracting
11 Agency will not open or consider any "Supplemental Information" (DBE confirmations, or
12 GFE documentation) that is received after the time specified above, or received in a
13 location other than that specified in the Call for Bids.
14

15 If an emergency or unanticipated event interrupts normal work processes of the
16 Contracting Agency so that Proposals cannot be received at the office designated for
17 receipt of bids as specified in Section 1-02.12 the time specified for receipt of the
18 Proposal will be deemed to be extended to the same time of day specified in the
19 solicitation on the first work day on which the normal work processes of the Contracting
20 Agency resume.
21

22
23 **1-02.10 Withdrawing, Revising, or Supplementing Proposal**
24 *(July 23, 2015 APWA GSP)*
25

26 Delete this section, and replace it with the following:
27

28 After submitting a physical Bid Proposal to the Contracting Agency, the Bidder may
29 withdraw, revise, or supplement it if:
30

- 31 1. The Bidder submits a written request signed by an authorized person and
32 physically delivers it to the place designated for receipt of Bid Proposals, and
- 33 2. The Contracting Agency receives the request before the time set for receipt of
34 Bid Proposals, and
- 35 3. The revised or supplemented Bid Proposal (if any) is received by the Contracting
36 Agency before the time set for receipt of Bid Proposals.
37

38 If the Bidder's request to withdraw, revise, or supplement its Bid Proposal is received
39 before the time set for receipt of Bid Proposals, the Contracting Agency will return the
40 unopened Proposal package to the Bidder. The Bidder must then submit the revised or
41 supplemented package in its entirety. If the Bidder does not submit a revised or
42 supplemented package, then its bid shall be considered withdrawn.
43

44 Late revised or supplemented Bid Proposals or late withdrawal requests will be date
45 recorded by the Contracting Agency and returned unopened. Mailed, emailed, or faxed
46 requests to withdraw, revise, or supplement a Bid Proposal are not acceptable.
47

1 **1-02.13 Irregular Proposals**
2 *(December 30, 2022 APWA GSP)*

3
4 Delete this section and replace it with the following:

- 5
6 1. A Proposal will be considered irregular and will be rejected if:
- 7 a. The Bidder is not prequalified when so required;
 - 8 b. The authorized Proposal form furnished by the Contracting Agency is not
9 used or is altered;
 - 10 c. The completed Proposal form contains any unauthorized additions, deletions,
11 alternate Bids, or conditions;
 - 12 d. The Bidder adds provisions reserving the right to reject or accept the award,
13 or enter into the Contract;
 - 14 e. A price per unit cannot be determined from the Bid Proposal;
 - 15 f. The Proposal form is not properly executed;
 - 16 g. The Bidder fails to submit or properly complete a subcontractor list (WSDOT
17 Form 271-015), if applicable, as required in Section 1-02.6;
 - 18 h. The Bidder fails to submit or properly complete a Disadvantaged Business
19 Enterprise Certification (WSDOT Form 272-056), if applicable, as required in
20 Section 1-02.6;
 - 21 i. The Bidder fails to submit Written Confirmations (WSDOT Form 422-031)
22 from each DBE firm listed on the Bidder's completed DBE Utilization
23 Certification that they are in agreement with the bidder's DBE participation
24 commitment, if applicable, as required in Section 1-02.6, or if the written
25 confirmation that is submitted fails to meet the requirements of the Special
26 Provisions;
 - 27 j. The Bidder fails to submit DBE Good Faith Effort documentation, if applicable,
28 as required in Section 1-02.6, or if the documentation that is submitted fails to
29 demonstrate that a Good Faith Effort to meet the Condition of Award was
30 made;
 - 31 k. The Bidder fails to submit a DBE Bid Item Breakdown (WSDOT Form 272-
32 054), if applicable, as required in Section 1-02.6, or if the documentation that
33 is submitted fails to meet the requirements of the Special Provisions;
 - 34 l. The Bidder fails to submit DBE Trucking Credit Forms (WSDOT Form 272-
35 058), if applicable, as required in Section 1-02.6, or if the documentation that
36 is submitted fails to meet the requirements of the Special Provisions;
 - 37 m. The Bid Proposal does not constitute a definite and unqualified offer to meet
38 the material terms of the Bid invitation; or
 - 39 n. More than one Proposal is submitted for the same project from a Bidder
40 under the same or different names.
- 41
- 42 2. A Proposal may be considered irregular and may be rejected if:
- 43 a. The Proposal does not include a unit price for every Bid item;
 - 44 b. Any of the unit prices are excessively unbalanced (either above or below the
45 amount of a reasonable Bid) to the potential detriment of the Contracting
46 Agency;
 - 47 c. Receipt of Addenda is not acknowledged;
 - 48 d. A member of a joint venture or partnership and the joint venture or
49 partnership submit Proposals for the same project (in such an instance, both
50 Bids may be rejected); or
 - 51 e. If Proposal form entries are not made in ink.
- 52

1 **1-02.14 Disqualification of Bidders**

2 (May 17, 2018 APWA GSP, Option B)

3
4 Delete this section and replace it with the following:

5
6 A Bidder will be deemed not responsible if the Bidder does not meet the mandatory
7 bidder responsibility criteria in RCW 39.04.350(1), as amended; or does not meet
8 Supplemental Criteria 1-7 listed in this Section.

9
10 The Contracting Agency will verify that the Bidder meets the mandatory bidder
11 responsibility criteria in RCW 39.04.350(1), and Supplemental Criteria 1-2. Evidence
12 that the Bidder meets Supplemental Criteria 3-7 shall be provided by the Bidder as
13 stated later in this Section.

14
15
16 1. **Delinquent State Taxes**

17
18 A Criterion: The Bidder shall not owe delinquent taxes to the Washington State
19 Department of Revenue without a payment plan approved by the Department
20 of Revenue.

21
22 B. Documentation: The Bidder, if and when required as detailed below, shall sign
23 a statement (on a form to be provided by the Contracting Agency) that the
24 Bidder does not owe delinquent taxes to the Washington State Department of
25 Revenue, or if delinquent taxes are owed to the Washington State
26 Department of Revenue, the Bidder must submit a written payment plan
27 approved by the Department of Revenue, to the Contracting Agency by the
28 deadline listed below.

29
30 2. **Federal Debarment**

31
32 A Criterion: The Bidder shall not currently be debarred or suspended by the
33 Federal government.

34
35 B. Documentation: The Bidder shall not be listed as having an “active exclusion”
36 on the U.S. government’s “System for Award Management” database
37 (www.sam.gov).

38
39 3. **Subcontractor Responsibility**

40
41 A Criterion: The Bidder’s standard subcontract form shall include the
42 subcontractor responsibility language required by RCW 39.06.020, and the
43 Bidder shall have an established procedure which it utilizes to validate the
44 responsibility of each of its subcontractors. The Bidder’s subcontract form
45 shall also include a requirement that each of its subcontractors shall have and
46 document a similar procedure to determine whether the sub-tier
47 subcontractors with whom it contracts are also “responsible” subcontractors
48 as defined by RCW 39.06.020.

49
50 B. Documentation: The Bidder, if and when required as detailed below, shall
51 submit a copy of its standard subcontract form for review by the Contracting

1 Agency, and a written description of its procedure for validating the
2 responsibility of subcontractors with which it contracts.
3

4 **4. Claims Against Retainage and Bonds**

5
6 A Criterion: The Bidder shall not have a record of excessive claims filed against
7 the retainage or payment bonds for public works projects in the three years
8 prior to the bid submittal date, that demonstrate a lack of effective
9 management by the Bidder of making timely and appropriate payments to its
10 subcontractors, suppliers, and workers, unless there are extenuating
11 circumstances and such circumstances are deemed acceptable to the
12 Contracting Agency.
13

14 B. Documentation: The Bidder, if and when required as detailed below, shall
15 submit a list of the public works projects completed in the three years prior to
16 the bid submittal date that have had claims against retainage and bonds and
17 include for each project the following information:
18

- 19 • Name of project
- 20 • The owner and contact information for the owner;
- 21 • A list of claims filed against the retainage and/or payment bond for any of
22 the projects listed;
- 23 • A written explanation of the circumstances surrounding each claim and
24 the ultimate resolution of the claim.
25

26 **5. Public Bidding Crime**

27
28 A Criterion: The Bidder and/or its owners shall not have been convicted of a
29 crime involving bidding on a public works contract in the five years prior to the
30 bid submittal date.
31

32 B. Documentation: The Bidder, if and when required as detailed below, shall sign
33 a statement (on a form to be provided by the Contracting Agency) that the
34 Bidder and/or its owners have not been convicted of a crime involving bidding
35 on a public works contract.
36

37 **6. Termination for Cause / Termination for Default**

38
39 A Criterion: The Bidder shall not have had any public works contract terminated
40 for cause or terminated for default by a government agency in the five years
41 prior to the bid submittal date, unless there are extenuating circumstances
42 and such circumstances are deemed acceptable to the Contracting Agency.
43

44 B. Documentation: The Bidder, if and when required as detailed below, shall sign
45 a statement (on a form to be provided by the Contracting Agency) that the
46 Bidder has not had any public works contract terminated for cause or
47 terminated for default by a government agency in the five years prior to the
48 bid submittal date; or if Bidder was terminated, describe the circumstances. .
49

50 **7. Lawsuits**

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A. Criterion: The Bidder shall not have lawsuits with judgments entered against the Bidder in the five years prior to the bid submittal date that demonstrate a pattern of failing to meet the terms of contracts, unless there are extenuating circumstances and such circumstances are deemed acceptable to the Contracting Agency

B. Documentation: The Bidder, if and when required as detailed below, shall sign a statement (on a form to be provided by the Contracting Agency) that the Bidder has not had any lawsuits with judgments entered against the Bidder in the five years prior to the bid submittal date that demonstrate a pattern of failing to meet the terms of contracts, or shall submit a list of all lawsuits with judgments entered against the Bidder in the five years prior to the bid submittal date, along with a written explanation of the circumstances surrounding each such lawsuit. The Contracting Agency shall evaluate these explanations to determine whether the lawsuits demonstrate a pattern of failing to meet of terms of construction related contracts

As evidence that the Bidder meets the Supplemental Criteria stated above, the apparent low Bidder must submit to the Contracting Agency by 12:00 P.M. (noon) of the second business day following the bid submittal deadline, a written statement verifying that the Bidder meets the supplemental criteria together with supporting documentation (sufficient in the sole judgment of the Contracting Agency) demonstrating compliance with the Supplemental Criteria. The Contracting Agency reserves the right to request further documentation as needed from the low Bidder and documentation from other Bidders as well to assess Bidder responsibility and compliance with all bidder responsibility criteria. The Contracting Agency also reserves the right to obtain information from third-parties and independent sources of information concerning a Bidder’s compliance with the mandatory and supplemental criteria, and to use that information in their evaluation. The Contracting Agency may consider mitigating factors in determining whether the Bidder complies with the requirements of the supplemental criteria.

The basis for evaluation of Bidder compliance with these mandatory and supplemental criteria shall include any documents or facts obtained by Contracting Agency (whether from the Bidder or third parties) including but not limited to: (i) financial, historical, or operational data from the Bidder; (ii) information obtained directly by the Contracting Agency from others for whom the Bidder has worked, or other public agencies or private enterprises; and (iii) any additional information obtained by the Contracting Agency which is believed to be relevant to the matter.

If the Contracting Agency determines the Bidder does not meet the bidder responsibility criteria above and is therefore not a responsible Bidder, the Contracting Agency shall notify the Bidder in writing, with the reasons for its determination. If the Bidder disagrees with this determination, it may appeal the determination within two (2) business days of the Contracting Agency’s determination by presenting its appeal and any additional information to the Contracting Agency. The Contracting Agency will consider the appeal and any additional information before issuing its final determination. If the final determination affirms that the Bidder is not responsible, the Contracting Agency will not execute a contract with any other Bidder until at least two business days after the Bidder determined to be not responsible has received the Contracting Agency’s final determination.

1 Request to Change Supplemental Bidder Responsibility Criteria Prior To Bid: Bidders
2 with concerns about the relevancy or restrictiveness of the Supplemental Bidder
3 Responsibility Criteria may make or submit requests to the Contracting Agency to
4 modify the criteria. Such requests shall be in writing, describe the nature of the
5 concerns, and propose specific modifications to the criteria. Bidders shall submit such
6 requests to the Contracting Agency no later than five (5) business days prior to the bid
7 submittal deadline and address the request to the Project Engineer or such other
8 person designated by the Contracting Agency in the Bid Documents.
9

10 **1-02.15 Pre Award Information**
11 *(December 30, 2022 APWA GSP)*
12

13 Revise this section to read:

14
15 Before awarding any contract, the Contracting Agency may require one or more of these
16 items or actions of the apparent lowest responsible bidder:

- 17 1. A complete statement of the origin, composition, and manufacture of any or all
18 materials to be used,
- 19 2. Samples of these materials for quality and fitness tests,
- 20 3. A progress schedule (in a form the Contracting Agency requires) showing the order
21 of and time required for the various phases of the work,
- 22 4. A breakdown of costs assigned to any bid item,
- 23 5. Attendance at a conference with the Engineer or representatives of the Engineer,
- 24 6. Obtain, and furnish a copy of, a business license to do business in the city or county
25 where the work is located.
- 26 7. Any other information or action taken that is deemed necessary to ensure that the
27 bidder is the lowest responsible bidder.

28
29 **Award and Execution of Contract**
30

31 **1-03.1 Consideration of Bids**
32 *(December 30, 2022 APWA GSP)*
33

34 Revise the first paragraph to read:

35
36 After opening and reading proposals, the Contracting Agency will check them for
37 correctness of extensions of the prices per unit and the total price. If a discrepancy exists
38 between the price per unit and the extended amount of any bid item, the price per unit will
39 control. If a minimum bid amount has been established for any item and the bidder's unit
40 or lump sum price is less than the minimum specified amount, the Contracting Agency will
41 unilaterally revise the unit or lump sum price, to the minimum specified amount and
42 recalculate the extension. The total of extensions, corrected where necessary, including
43 sales taxes where applicable and such additives and/or alternates as selected by the
44 Contracting Agency, will be used by the Contracting Agency for award purposes and to fix
45 the Awarded Contract Price amount and the amount of the contract bond.
46

47 **Execution Of Contract**
48

1 **1-03.3 Execution of Contract**

2 *(January 19, 2022 APWA GSP)*

3
4 Revise this section to read:

5
6 Within 3 calendar days of Award date (not including Saturdays, Sundays and Holidays),
7 the successful Bidder shall provide the information necessary to execute the Contract to
8 the Contracting Agency. The Bidder shall send the contact information, including the full
9 name, email address, and phone number, for the authorized signer and bonding agent to
10 the Contracting Agency.

11
12 Copies of the Contract Provisions, including the unsigned Form of Contract, will be
13 available for signature by the successful bidder on the first business day following award.
14 The number of copies to be executed by the Contractor will be determined by the
15 Contracting Agency.

16
17 Within 3 calendar days after the award date, the successful bidder shall return the
18 signed Contracting Agency-prepared contract, an insurance certification as required by
19 Section 1-07.18, a satisfactory bond as required by law and Section 1-03.4, the Transfer
20 of Coverage form for the Construction Stormwater General Permit with sections I, III, and
21 VIII completed when provided. Before execution of the contract by the Contracting
22 Agency, the successful bidder shall provide any pre-award information the Contracting
23 Agency may require under Section 1-02.15.

24
25 Until the Contracting Agency executes a contract, no proposal shall bind the Contracting
26 Agency nor shall any work begin within the project limits or within Contracting Agency-
27 furnished sites. The Contractor shall bear all risks for any work begun outside such areas
28 and for any materials ordered before the contract is executed by the Contracting Agency.

29
30 If the bidder experiences circumstances beyond their control that prevents return of the
31 contract documents within the calendar days after the award date stated above, the
32 Contracting Agency may grant up to a maximum of 10 additional calendar days for return
33 of the documents, provided the Contracting Agency deems the circumstances warrant it.

34
35 **1-03.4 Contract Bond**

36 *(July 23, 2015 APWA GSP)*

37
38 Delete the first paragraph and replace it with the following:

39
40 The successful bidder shall provide executed payment and performance bond(s) for the
41 full contract amount. The bond may be a combined payment and performance bond; or
42 be separate payment and performance bonds. In the case of separate payment and
43 performance bonds, each shall be for the full contract amount. The bond(s) shall:

- 44 1. Be on Contracting Agency-furnished form(s);
- 45 2. Be signed by an approved surety (or sureties) that:
- 46 a. Is registered with the Washington State Insurance Commissioner, and
- 47 b. Appears on the current Authorized Insurance List in the State of Washington
48 published by the Office of the Insurance Commissioner,
- 49 3. Guarantee that the Contractor will perform and comply with all obligations, duties,
50 and conditions under the Contract, including but not limited to the duty and obligation

- 1 to indemnify, defend, and protect the Contracting Agency against all losses and
2 claims related directly or indirectly from any failure:
- 3 a. Of the Contractor (or any of the employees, subcontractors, or lower tier
4 subcontractors of the Contractor) to faithfully perform and comply with all contract
5 obligations, conditions, and duties, or
6 b. Of the Contractor (or the subcontractors or lower tier subcontractors of the
7 Contractor) to pay all laborers, mechanics, subcontractors, lower tier
8 subcontractors, material person, or any other person who provides supplies or
9 provisions for carrying out the work;
- 10 4. Be conditioned upon the payment of taxes, increases, and penalties incurred on the
11 project under titles 50, 51, and 82 RCW; and
12 5. Be accompanied by a power of attorney for the Surety's officer empowered to sign
13 the bond; and
14 6. Be signed by an officer of the Contractor empowered to sign official statements (sole
15 proprietor or partner). If the Contractor is a corporation, the bond(s) must be signed
16 by the president or vice president, unless accompanied by written proof of the
17 authority of the individual signing the bond(s) to bind the corporation (i.e., corporate
18 resolution, power of attorney, or a letter to such effect signed by the president or vice
19 president).

20

21 **Scope of the Work**

22

23 **Coordination of Contract Documents, Plans, Special Provisions, 24 Specifications, and Addenda**

25

26 **1-04.2 Coordination of Contract Documents, Plans, Special Provisions, 27 Specifications, and Addenda**

28 *(December 30, 2022 APWA GSP)*

29

30 Revise the second paragraph to read:

31

32 Any inconsistency in the parts of the contract shall be resolved by following this order of
33 precedence (e.g., 1 presiding over 2, 2 over 3, 3 over 4, and so forth):

34

35 1. Addenda,

36

37 2. Proposal Form,

38

39 3. Special Provisions,

40

41 4. Contract Plans,

42

43 5. Standard Specifications,

44

45 6. Contracting Agency's Standard Plans or Details (if any), and

46

47 7. WSDOT Standard Plans for Road, Bridge, and Municipal Construction.

48

49 **1-04.4 Changes**

50 *(January 19, 2022 APWA GSP)*

The first two sentences of the last paragraph of Section 1-04.4 are deleted.

1-04.4(1) **Minor Changes**

(May 30, 2019 APWA GSP)

Delete the first paragraph and replace it with the following:

1
2 Payments or credits for changes amounting to \$25,000 or less may be made under the
3 Bid item "Minor Change". At the discretion of the Contracting Agency, this procedure for
4 Minor Changes may be used in lieu of the more formal procedure as outlined in Section
5 1-04.4, Changes. All "Minor Change" work will be within the scope of the Contract Work
6 and will not change Contract Time.
7

8 **Control of Work**

9

10 **Conformity with and Deviations from Plans and Stakes**

11
12 Section 1-05.4 is supplemented with the following:
13

14 **(*****)**

15 **Contractor Surveying - Structure**

16 The Contractor shall be responsible for providing primary survey control, setting,
17 maintaining, and resetting all alignment stakes, slope stakes, and grades necessary for
18 the construction of bridges, noise walls, retaining walls, buried structures, and marine
19 structures. Survey control data, calculations, surveying, and measuring required for
20 setting and maintaining the necessary lines and grades shall be the Contractor's
21 responsibility.
22

23 The Contractor shall inform the Engineer when monuments are discovered that were not
24 identified in the Plans and construction activity may disturb or damage the monuments.
25 All monuments noted on the plans "DO NOT DISTURB" shall be protected throughout the
26 length of the project or be replaced at the Contractor's expense.
27

28 Detailed survey records shall be maintained, including a description of the work
29 performed on each shift, the methods utilized, and the control points used. The record
30 shall be adequate to allow the survey to be reproduced. A copy of each day's record shall
31 be provided to the Engineer within three working days after the end of the shift.
32

33 The meaning of words and terms used in this provision shall be as listed in "Definitions of
34 Surveying and Associated Terms" current edition, published by the American Congress
35 on Surveying and Mapping and the American Society of Civil Engineers.
36

37 The survey work by the Contractor shall include but not be limited to the following:
38

- 39 1. Establish primary horizontal and vertical control and expand into secondary
40 control by adding stakes and hubs as well as additional survey control needed
41 for the project. Provide descriptions of secondary control to the Contracting
42 Agency. The description shall include coordinates and elevations of all
43 secondary control points.
44
- 45 2. Establish, by placing hubs and/or marked stakes, the location with offsets of
46 foundation shafts and piles.
47
- 48 3. Establish offsets to footing centerline of bearing for structure excavation.
49
- 50 4. Establish offsets to footing centerline of bearing for footing forms.
51

- 1 5. Establish wing wall, retaining wall, noise wall, and buried structure horizontal
2 alignment.
- 3
- 4 6. Establish retaining wall top of wall profile grade.
- 5
- 6 7. Establish buried structure profile grade.
- 7
- 8 8. Establish elevation benchmarks for all substructure formwork.
- 9
- 10 9. Check elevations at top of footing concrete line inside footing formwork
11 immediately prior to concrete placement.
- 12
- 13 10. Check column location and pier centerline of bearing at top of footing
14 immediately prior to concrete placement.
- 15
- 16 11. Establish location and plumbness of column forms, and monitor column
17 plumbness during concrete placement.
- 18
- 19 12. Establish pier cap and crossbeam top and bottom elevations and centerline of
20 bearing.
- 21
- 22 13. Check pier cap and crossbeam top and bottom elevations and centerline of
23 bearing prior to and during concrete placement.
- 24
- 25 14. Establish grout pad locations and elevations.
- 26
- 27 15. Establish structure bearing locations and elevations, including locations of
28 anchor bolt assemblies.
- 29
- 30 16. Establish box girder bottom slab grades and locations.
- 31
- 32 17. Establish girder and/or web wall profiles and locations.
- 33
- 34 18. Establish diaphragm locations and centerline of bearing.
- 35
- 36 19. Establish roadway slab alignment, grades and provide dimensions from top of
37 girder to top of roadway slab. Set elevations for deck paving machine rails.
- 38
- 39 20. Establish traffic barrier and curb profile.
- 40
- 41 21. Profile all girders prior to the placement of any deadload or construction live load
42 that may affect the girder's profile.
- 43
- 44 22. Establish locations for marine structures including fixed and floating berthing
45 structures, vehicle and pedestrian foundations and spans, and marine-based
46 buildings.
- 47
- 48 The Contractor shall provide the Contracting Agency copies of any calculations and
49 staking data when requested by the Engineer.
- 50

1 The Contractor shall submit the computed elevations at the top of bridge decks as a Type
2 Working Drawing. The elevations shall be computed at tenth points along the centerline
3 of each girder web.
4

5 The Contractor shall ensure a surveying accuracy within the following tolerances:
6

	<u>Vertical</u>	<u>Horizontal</u>
7		
8 1. Stationing on structures		±0.02 feet
9 2. Alignment on structures		±0.02 feet
10 3. Superstructure elevations	±0.01 feet	
11	variation from	
12	plan elevation	
13 4. Substructure	±0.02 feet	
14	variation from	
15	Plan grades.	
16		

17 Buried structures shall be within the tolerances described in Section 6-20.3.
18

19 The Contracting Agency may spot-check the Contractor's surveying. These spot-checks
20 will not change the requirements for normal checking by the Contractor.
21

22 When staking the following items, the Contractor shall perform independent checks from
23 different secondary control to ensure that the points staked for these items are within the
24 specified survey accuracy tolerances:
25

- 26 Piles
- 27 Shafts
- 28 Footings
- 29 Columns
- 30

31 The Contractor shall calculate coordinates for the points associated with piles, shafts,
32 footings and columns. The Contracting Agency will verify these coordinates prior to
33 issuing approval to the Contractor for commencing with the survey work. The Contracting
34 Agency will require up to seven calendar days from the date the data is received to issuing
35 approval.
36

37 Contract work to be performed using contractor-provided stakes shall not begin until the
38 stakes are approved by the Contracting Agency. Such approval shall not relieve the
39 Contractor of responsibility for the accuracy of the stakes.
40

41 ***Contractor Surveying - Roadway***

42 The Contractor shall be responsible for providing primary survey control, setting,
43 maintaining, and resetting all alignment stakes, slope stakes, and grades necessary for
44 the construction of the roadbed, drainage, surfacing, paving, channelization and
45 pavement marking, illumination and signals, guardrails and barriers, and signing. Survey
46 control data, calculations, surveying, and measuring required for setting and maintaining
47 the necessary lines and grades shall be the Contractor's responsibility.
48

49 The Contractor shall inform the Engineer when monuments are discovered that were not
50 identified in the Plans and construction activity may disturb or damage the monuments.
51 All monuments noted on the plans "DO NOT DISTURB" shall be protected throughout the
52 length of the project or be replaced at the Contractors expense.

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Detailed survey records shall be maintained, including a description of the work performed on each shift, the methods utilized, and the control points used. The record shall be adequate to allow the survey to be reproduced. A copy of each day's record shall be provided to the Engineer within three working days after the end of the shift.

The meaning of words and terms used in this provision shall be as listed in "Definitions of Surveying and Associated Terms" current edition, published by the American Congress on Surveying and Mapping and the American Society of Civil Engineers.

The survey work shall include but not be limited to the following:

1. Establish primary horizontal and vertical control and expand into secondary control by adding stakes and hubs as well as additional survey control needed for the project. Provide descriptions of secondary control to the Contracting Agency. The description shall include coordinates and elevations of all secondary control points.
2. Establish the centerlines of all alignments, by placing hubs, stakes, or marks on centerline or on offsets to centerline at all curve points (PCs, PTs, and PIs) and at points on the alignments spaced no further than 50 feet.
3. Establish clearing limits, placing stakes at all angle points and at intermediate points not more than 50 feet apart. The clearing and grubbing limits shall be 5 feet beyond the toe of a fill and 10 feet beyond the top of a cut unless otherwise shown in the Plans.
4. Establish grading limits, placing slope stakes at centerline increments not more than 50 feet apart. Establish offset reference to all slope stakes. If Global Positioning Satellite (GPS) Machine Controls are used to provide grade control, then slope stakes may be omitted at the discretion of the Contractor.
5. Establish the horizontal and vertical location of all drainage features, placing offset stakes to all drainage structures and to pipes at a horizontal interval not greater than 25 feet.
6. Establish roadbed and surfacing elevations by placing stakes at the top of subgrade and at the top of each course of surfacing. Subgrade and surfacing stakes shall be set at horizontal intervals not greater than 50 feet in tangent sections, 25 feet in curve sections with a radius less than 300 feet, and at 10-foot intervals in intersection radii with a radius less than 10 feet. Transversely, stakes shall be placed at all locations where the roadway slope changes and at additional points such that the transverse spacing of stakes is not more than 12 feet. If GPS Machine Controls are used to provide grade control, then roadbed and surfacing stakes may be omitted at the discretion of the Contractor.
7. Establish intermediate elevation benchmarks as needed to check work throughout the project.
8. Provide references for paving pins at 25-foot intervals or provide simultaneous surveying to establish location and elevation of paving pins as they are being placed.

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- 9. For all other types of construction included in this provision, (including but not limited to channelization and pavement marking, illumination and signals, guardrails and barriers, and signing) provide staking and layout as necessary to adequately locate, construct, and check the specific construction activity.
- 10. Contractor shall determine if changes are needed to the profiles or roadway sections shown in the Contract Plans in order to achieve proper smoothness and drainage where matching into existing features, such as a smooth transition from new pavement to existing pavement. The Contractor shall submit these changes to the Engineer for review and approval 10 days prior to the beginning of work.

The Contractor shall provide the Contracting Agency copies of any calculations and staking data when requested by the Engineer.

The Contractor shall ensure a surveying accuracy within the following tolerances:

	<u>Vertical</u>	<u>Horizontal</u>
Slope stakes	±0.10 feet	±0.10 feet
Subgrade grade stakes set 0.04 feet below grade	±0.01 feet	±0.5 feet (parallel to alignment) ±0.1 feet (normal to alignment)
Stationing on roadway	N/A	±0.1 feet
Alignment on roadway	N/A	±0.04 feet
Surfacing grade stakes	±0.01 feet	±0.5 feet (parallel to alignment) ±0.1 feet (normal to alignment)
Roadway paving pins for surfacing or paving	±0.01 feet	±0.2 feet (parallel to alignment) ±0.1 feet (normal to alignment)

The Contracting Agency may spot-check the Contractor's surveying. These spot-checks will not change the requirements for normal checking by the Contractor.

When staking roadway alignment and stationing, the Contractor shall perform independent checks from different secondary control to ensure that the points staked are within the specified survey accuracy tolerances.

The Contractor shall calculate coordinates for the alignment. The Contracting Agency will verify these coordinates prior to issuing approval to the Contractor for commencing with the work. The Contracting Agency will require up to seven calendar days from the date the data is received.

1 Contract work to be performed using contractor-provided stakes shall not begin until the
2 stakes are approved by the Contracting Agency. Such approval shall not relieve the
3 Contractor of responsibility for the accuracy of the stakes.
4

5 Stakes shall be marked in accordance with Standard Plan A10.10. When stakes are
6 needed that are not described in the Plans, then those stakes shall be marked, at no
7 additional cost to the Contracting Agency as ordered by the Engineer.
8

9 **Contractor Surveying – ADA Features**

10 **ADA Feature Staking Requirements**

11 The Contractor shall be responsible for setting, maintaining, and resetting all
12 alignment stakes, and grades necessary for the construction of the ADA features.
13 Calculations, surveying, and measuring required for setting and maintaining the
14 necessary lines and grades shall be the Contractor's responsibility. The Contractor
15 shall build the ADA features within the specifications in the Standard Plans and
16 contract documents.
17

18 **ADA Feature Contract Compliance**

19 The Contractor shall be responsible for completing measurements to verify all ADA
20 features comply with the Contract in the presence of the Engineer.
21

22 **ADA Feature As-Built Measurements**

23 The Contractor shall be responsible for providing the locations of each ADA feature.
24 Final grades and lengths for each element of the constructed ADA feature shall be
25 provided to the Engineer within 30 days of completion.
26

27 **Payment**

28 All costs to comply with this section for the completion of survey required to construct all
29 elements of the project, unless otherwise stated, are incidental to the Contract and are
30 the responsibility of the Contractor. The Contractor shall include all related costs in the
31 unit Bid prices of the Contract.
32

33 In the instance where an ADA feature does not meet accessibility requirements, all work
34 to replace non-compliant work and then to measure, record the as-built measurements,
35 and transmit the electronic forms to the Engineer shall be completed at no additional cost
36 to the Contracting Agency.
37

38 **1-05.7 Removal of Defective and Unauthorized Work**

39 *(October 1, 2005 APWA GSP)*
40

41 Supplement this section with the following:
42

43 If the Contractor fails to remedy defective or unauthorized work within the time specified
44 in a written notice from the Engineer, or fails to perform any part of the work required by
45 the Contract Documents, the Engineer may correct and remedy such work as may be
46 identified in the written notice, with Contracting Agency forces or by such other means as
47 the Contracting Agency may deem necessary.
48

49 If the Contractor fails to comply with a written order to remedy what the Engineer
50 determines to be an emergency situation, the Engineer may have the defective and
51 unauthorized work corrected immediately, have the rejected work removed and replaced,
52 or have work the Contractor refuses to perform completed by using Contracting Agency

1 or other forces. An emergency situation is any situation when, in the opinion of the
2 Engineer, a delay in its remedy could be potentially unsafe, or might cause serious risk
3 of loss or damage to the public.
4

5 Direct or indirect costs incurred by the Contracting Agency attributable to correcting and
6 remedying defective or unauthorized work, or work the Contractor failed or refused to
7 perform, shall be paid by the Contractor. Payment will be deducted by the Engineer from
8 monies due, or to become due, the Contractor. Such direct and indirect costs shall
9 include in particular, but without limitation, compensation for additional professional
10 services required, and costs for repair and replacement of work of others destroyed or
11 damaged by correction, removal, or replacement of the Contractor's unauthorized work.
12

13 No adjustment in contract time or compensation will be allowed because of the delay in
14 the performance of the work attributable to the exercise of the Contracting Agency's
15 rights provided by this Section.
16

17 The rights exercised under the provisions of this section shall not diminish the
18 Contracting Agency's right to pursue any other avenue for additional remedy or damages
19 with respect to the Contractor's failure to perform the work as required.
20
21

22 **1-05.11 Final Inspection**

23
24 Delete this section and replace it with the following:
25

26 **1-05.11 Final Inspections and Operational Testing**
27 *(October 1, 2005 APWA GSP)*
28

29 **1-05.11(1) Substantial Completion Date**

30
31 When the Contractor considers the work to be substantially complete, the Contractor
32 shall so notify the Engineer and request the Engineer establish the Substantial
33 Completion Date. The Contractor's request shall list the specific items of work that
34 remain to be completed in order to reach physical completion. The Engineer will
35 schedule an inspection of the work with the Contractor to determine the status of
36 completion. The Engineer may also establish the Substantial Completion Date
37 unilaterally.
38

39 If, after this inspection, the Engineer concurs with the Contractor that the work is
40 substantially complete and ready for its intended use, the Engineer, by written notice to
41 the Contractor, will set the Substantial Completion Date. If, after this inspection the
42 Engineer does not consider the work substantially complete and ready for its intended
43 use, the Engineer will, by written notice, so notify the Contractor giving the reasons
44 therefor.
45

46 Upon receipt of written notice concurring in or denying substantial completion, whichever
47 is applicable, the Contractor shall pursue vigorously, diligently and without unauthorized
48 interruption, the work necessary to reach Substantial and Physical Completion. The
49 Contractor shall provide the Engineer with a revised schedule indicating when the
50 Contractor expects to reach substantial and physical completion of the work.
51

1 The above process shall be repeated until the Engineer establishes the Substantial
2 Completion Date and the Contractor considers the work physically complete and ready for
3 final inspection.
4

5 **1-05.11(2) Final Inspection and Physical Completion Date**
6

7 When the Contractor considers the work physically complete and ready for final
8 inspection, the Contractor by written notice, shall request the Engineer to schedule a
9 final inspection. The Engineer will set a date for final inspection. The Engineer and the
10 Contractor will then make a final inspection and the Engineer will notify the Contractor in
11 writing of all particulars in which the final inspection reveals the work incomplete or
12 unacceptable. The Contractor shall immediately take such corrective measures as are
13 necessary to remedy the listed deficiencies. Corrective work shall be pursued vigorously,
14 diligently, and without interruption until physical completion of the listed deficiencies. This
15 process will continue until the Engineer is satisfied the listed deficiencies have been
16 corrected.
17

18 If action to correct the listed deficiencies is not initiated within 7 days after receipt of the
19 written notice listing the deficiencies, the Engineer may, upon written notice to the
20 Contractor, take whatever steps are necessary to correct those deficiencies pursuant to
21 Section 1-05.7.

22 The Contractor will not be allowed an extension of contract time because of a delay in
23 the performance of the work attributable to the exercise of the Engineer's right
24 hereunder.
25

26 Upon correction of all deficiencies, the Engineer will notify the Contractor and the
27 Contracting Agency, in writing, of the date upon which the work was considered physically
28 complete. That date shall constitute the Physical Completion Date of the contract, but shall
29 not imply acceptance of the work or that all the obligations of the Contractor under the
30 contract have been fulfilled.
31

32 **1-05.11(3) Operational Testing**
33

34 It is the intent of the Contracting Agency to have at the Physical Completion Date a
35 complete and operable system. Therefore when the work involves the installation of
36 machinery or other mechanical equipment; street lighting, electrical distribution or signal
37 systems; irrigation systems; buildings; or other similar work it may be desirable for the
38 Engineer to have the Contractor operate and test the work for a period of time after final
39 inspection but prior to the physical completion date. Whenever items of work are listed in
40 the Contract Provisions for operational testing they shall be fully tested under operating
41 conditions for the time period specified to ensure their acceptability prior to the Physical
42 Completion Date. During and following the test period, the Contractor shall correct any
43 items of workmanship, materials, or equipment which prove faulty, or that are not in first
44 class operating condition. Equipment, electrical controls, meters, or other devices and
45 equipment to be tested during this period shall be tested under the observation of the
46 Engineer, so that the Engineer may determine their suitability for the purpose for which
47 they were installed. The Physical Completion Date cannot be established until testing
48 and corrections have been completed to the satisfaction of the Engineer.
49

50 The costs for power, gas, labor, material, supplies, and everything else needed to
51 successfully complete operational testing, shall be included in the unit contract prices
52 related to the system being tested, unless specifically set forth otherwise in the proposal.

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Operational and test periods, when required by the Engineer, shall not affect a manufacturer's guaranties or warranties furnished under the terms of the contract.

1-05.13 Superintendents, Labor and Equipment of Contractor
(August 14, 2013 APWA GSP)

Delete the sixth and seventh paragraphs of this section.

1-05.15 Method of Serving Notices
(December 30, 2022 APWA GSP)

Revise the second paragraph to read:

All correspondence from the Contractor shall be directed to the Project Engineer. All correspondence from the Contractor constituting any notification, notice of protest, notice of dispute, or other correspondence constituting notification required to be furnished under the Contract, must be in paper format, hand delivered or sent via mail delivery service to the Project Engineer's office. Electronic copies such as e-mails or electronically delivered copies of correspondence will not constitute such notice and will not comply with the requirements of the Contract.

Add the following new section:

1-05.16 Water and Power
(October 1, 2005 APWA GSP)

The Contractor shall make necessary arrangements, and shall bear the costs for power and water necessary for the performance of the work, unless the contract includes power and water as a pay item.

Add the following new section:

1-05.18 Record Drawings
(March 8, 2013 APWA GSP)

The Contractor shall maintain one set of full size plans for Record Drawings, updated with clear and accurate red-lined field revisions on a daily basis, and within 2 business days after receipt of information that a change in Work has occurred. The Contractor shall not conceal any work until the required information is recorded.

This Record Drawing set shall be used for this purpose alone, shall be kept separate from other Plan sheets, and shall be clearly marked as Record Drawings. These Record Drawings shall be kept on site at the Contractor's field office, and shall be available for review by the Contracting Agency at all times. The Contractor shall bring the Record Drawings to each progress meeting for review.

The preparation and upkeep of the Record Drawings is to be the assigned responsibility of a single, experienced, and qualified individual. The quality of the Record Drawings, in terms of accuracy, clarity, and completeness, is to be adequate to allow the Contracting Agency to modify the computer-aided drafting (CAD) Contract Drawings to produce a

1 complete set of Record Drawings for the Contracting Agency without further investigative
2 effort by the Contracting Agency.

3
4 The Record Drawing markups shall document all changes in the Work, both concealed
5 and visible. Items that must be shown on the markups include but are not limited to:

- 6
7
 - Actual dimensions, arrangement, and materials used when different than shown in
8 the Plans.
 - Changes made by Change Order or Field Order.
 - Changes made by the Contractor.
 - Accurate locations of storm sewer, sanitary sewer, water mains and other water
9 appurtenances, structures, conduits, light standards, vaults, width of roadways,
10 sidewalks, landscaping areas, building footprints, channelization and pavement
11 markings, etc. Include pipe invert elevations, top of castings (manholes, inlets,
12 etc.).

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16
17 If the Contract calls for the Contracting Agency to do all surveying and staking, the
18 Contracting Agency will provide the elevations at the tolerances the Contracting Agency
19 requires for the Record Drawings.

20
21 When the Contract calls for the Contractor to do the surveying/staking, the applicable
22 tolerance limits include, but are not limited to the following:

	Vertical	Horizontal
As-built sanitary & storm invert and grate elevations	± 0.01 foot	± 0.01 foot
As-built monumentation	± 0.001 foot	± 0.001 foot
As-built waterlines, inverts, valves, hydrants	± 0.10 foot	± 0.10 foot
As-built ponds/swales/water features	± 0.10 foot	± 0.10 foot
As-built buildings (fin. Floor elev.)	± 0.01 foot	± 0.10 foot
As-built gas lines, power, TV, Tel, Com	± 0.10 foot	± 0.10 foot
As-built signs, signals, etc.	N/A	± 0.10 foot

23
24 Making Entries on the Record Drawings:

- 25
26
 - Use erasable colored pencil (not ink) for all markings on the Record Drawings,
27 conforming to the following color code:
 - Additions - Red
 - Deletions - Green
 - Comments - Blue
 - Dimensions- Graphite
 - Provide the applicable reference for all entries, such as the change order number,
28 the request for information (RFI) number, or the approved shop drawing number.
 - Date all entries.
 - Clearly identify all items in the entry with notes similar to those in the Contract
29 Drawings (such as pipe symbols, centerline elevations, materials, pipe joint
30 abbreviations, etc.).

1 The Contractor shall certify on the Record Drawings that said drawings are an accurate
2 depiction of built conditions, and in conformance with the requirements detailed above.
3 The Contractor shall submit final Record Drawings to the Contracting Agency.
4 Contracting Agency acceptance of the Record Drawings is one of the requirements for
5 achieving Physical Completion.
6

7 Payment will be made for the following bid item:
8

Record Drawings (Minimum Bid \$ 2,000)	Lump Sum
---	----------

9
10 Payment for this item will be made on a prorated monthly basis for work completed in
11 accordance with this section up to 75% of the lump sum bid. The final 25% of the lump
12 sum item will be paid upon submittal and approval of the completed Record Drawings set
13 prepared in conformance with these Special Provisions.
14

15 A minimum bid amount has been entered in the Bid Proposal for this item. The Contractor
16 must bid at least that amount.
17

18 **Legal Relations and Responsibilities to the Public**

19 **Laws to be Observed**

20 **1-07.1 Laws to be Observed** 21 22 *(October 1, 2005 APWA GSP)* 23

24 Supplement this section with the following:
25

26 In cases of conflict between different safety regulations, the more stringent regulation
27 shall apply.
28

29 The Washington State Department of Labor and Industries shall be the sole and
30 paramount administrative agency responsible for the administration of the provisions of
31 the Washington Industrial Safety and Health Act of 1973 (WISHA).
32

33 The Contractor shall maintain at the project site office, or other well known place at the
34 project site, all articles necessary for providing first aid to the injured. The Contractor
35 shall establish, publish, and make known to all employees, procedures for ensuring
36 immediate removal to a hospital, or doctor's care, persons, including employees, who
37 may have been injured on the project site. Employees should not be permitted to work
38 on the project site before the Contractor has established and made known procedures
39 for removal of injured persons to a hospital or a doctor's care.
40

41 The Contractor shall have sole responsibility for the safety, efficiency, and adequacy of
42 the Contractor's plant, appliances, and methods, and for any damage or injury resulting
43 from their failure, or improper maintenance, use, or operation. The Contractor shall be
44 solely and completely responsible for the conditions of the project site, including safety
45 for all persons and property in the performance of the work. This requirement shall apply
46 continuously, and not be limited to normal working hours. The required or implied duty of
47 the Engineer to conduct construction review of the Contractor's performance does not,
48 and shall not, be intended to include review and adequacy of the Contractor's safety
49 measures in, on, or near the project site.
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(April 3, 2006)
Confined Space

Confined spaces are known to exist at the following locations:

*** Sewer manholes and stormwater catch basins on Pottery Avenue and adjacent streets ***

The Contractor shall be fully responsible for the safety and health of all on-site workers and compliant with Washington Administrative Code (WAC 296-809).

The Contractor shall prepare and implement a confined space program for each of the confined spaces identified above. The Contractor's Confined Space program shall be sent to the Contracting Agency at least 30 days prior to the Contractor beginning work in or adjacent to the confined space. No work shall be performed in or adjacent to the confined space until the plan is submitted to the Engineer as required. The Contractor shall communicate with the Engineer to ensure a coordinated effort for providing and maintaining a safe worksite for both the Contracting Agency's and Contractor's workers when working in or near a confined space.

All costs to prepare and implement the confined space program shall be included in the bid prices for the various items associated with the confined space work.

1-07.2 State Taxes

Delete this section, including its sub-sections, in its entirety and replace it with the following:

1-07.2 State Sales Tax
(June 27, 2011 APWA GSP)

The Washington State Department of Revenue has issued special rules on the State sales tax. Sections 1-07.2(1) through 1-07.2(3) are meant to clarify those rules. The Contractor should contact the Washington State Department of Revenue for answers to questions in this area. The Contracting Agency will not adjust its payment if the Contractor bases a bid on a misunderstood tax liability.

The Contractor shall include all Contractor-paid taxes in the unit bid prices or other contract amounts. In some cases, however, state retail sales tax will not be included. Section 1-07.2(2) describes this exception.

The Contracting Agency will pay the retained percentage (or release the Contract Bond if a FHWA-funded Project) only if the Contractor has obtained from the Washington State Department of Revenue a certificate showing that all contract-related taxes have been paid (RCW 60.28.051). The Contracting Agency may deduct from its payments to the Contractor any amount the Contractor may owe the Washington State Department of Revenue, whether the amount owed relates to this contract or not. Any amount so deducted will be paid into the proper State fund.

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1-07.2(1) State Sales Tax — Rule 171

WAC 458-20-171, and its related rules, apply to building, repairing, or improving streets, roads, etc., which are owned by a municipal corporation, or political subdivision of the state, or by the United States, and which are used primarily for foot or vehicular traffic. This includes storm or combined sewer systems within and included as a part of the street or road drainage system and power lines when such are part of the roadway lighting system. For work performed in such cases, the Contractor shall include Washington State Retail Sales Taxes in the various unit bid item prices, or other contract amounts, including those that the Contractor pays on the purchase of the materials, equipment, or supplies used or consumed in doing the work.

1-07.2(2) State Sales Tax — Rule 170

WAC 458-20-170, and its related rules, apply to the constructing and repairing of new or existing buildings, or other structures, upon real property. This includes, but is not limited to, the construction of streets, roads, highways, etc., owned by the state of Washington; water mains and their appurtenances; sanitary sewers and sewage disposal systems unless such sewers and disposal systems are within, and a part of, a street or road drainage system; telephone, telegraph, electrical power distribution lines, or other conduits or lines in or above streets or roads, unless such power lines become a part of a street or road lighting system; and installing or attaching of any article of tangible personal property in or to real property, whether or not such personal property becomes a part of the realty by virtue of installation.

For work performed in such cases, the Contractor shall collect from the Contracting Agency, retail sales tax on the full contract price. The Contracting Agency will automatically add this sales tax to each payment to the Contractor. For this reason, the Contractor shall not include the retail sales tax in the unit bid item prices, or in any other contract amount subject to Rule 170, with the following exception.

Exception: The Contracting Agency will not add in sales tax for a payment the Contractor or a subcontractor makes on the purchase or rental of tools, machinery, equipment, or consumable supplies not integrated into the project. Such sales taxes shall be included in the unit bid item prices or in any other contract amount.

1-07.2(3) Services

The Contractor shall not collect retail sales tax from the Contracting Agency on any contract wholly for professional or other services (as defined in Washington State Department of Revenue Rules 138 and 244).

Air Quality

Asbestos Containing Material

Section 1-07.5(4)C is supplemented with the following:

(October 4, 2021)

Asbestos Good Faith Investigation

An asbestos Good Faith Investigation (GFI) has been conducted for this project and it has been determined that known Asbestos Containing Material (ACM),

1 and/or Presumed Asbestos Containing Material (PACM), will be disturbed by the
2 work on this project. The asbestos GFI has been provided in Appendix *** C ***.
3

4 **1-07.6 Permits and Licenses**
5 (*****)
6

7 Supplement this section with the following:
8

9 In addition to the specifications provided herein, any work by the Contractor within
10 WSDOT right-of-way to complete the Work for this project shall also conform to the
11 special provisions set forth in the WSDOT Utility Accommodation Permit and Provisions
12 associated with this project. Special provisions and required noticing to WSDOT
13 representatives can be found in Appendix E of the Contract.
14

15
16 **Utilities and Similar Facilities**
17

18 Section 1-07.17 is supplemented with the following:
19

20 (April 2, 2007)

21 Locations and dimensions shown in the Plans for existing facilities are in accordance with
22 available information obtained without uncovering, measuring, or other verification.
23

24 The following addresses and telephone numbers of utility companies known or suspected
25 of having facilities within the project limits are supplied for the Contractor's convenience:
26

- 27 *** Water and Sewer – City of Port Orchard
- 28 Gas – Cascade Natural Gas, 360-204-6732 or 360-328-6845
- 29 Electric – PSE, 1-888-225-5773
- 30 Telephone – Century Link, 1-800-283-4237
- 31 Cable – Comcast, 503-399-4494
- 32 Cable – Astound, 1-800-928-3123
- 33 Cable – Convergence Technologies, 360-405-1231
- 34 Cable – Kitsap County PUD, 360-779-7656 ***
35

36 (October 3, 2022)

37 Locations and dimensions shown in the Plans for existing facilities are in accordance with
38 available information obtained without uncovering, measuring, or other verification.
39

40 Public and private utilities, or their Contractors, will furnish all work necessary to adjust,
41 relocate, replace, or construct their facilities unless otherwise provided for in the Plans or
42 these Special Provisions. Such adjustment, relocation, replacement, or construction will
43 be done during the prosecution of the work for this project. It is anticipated that utility
44 adjustment, relocation, replacement, or construction within the project limits will be
45 completed as follows:
46

- 47 *** Relocating existing pedestals (2) on west side of Pottery Avenue between Lippert
48 Drive and Sage Street and at Sunset Lane intersection. Anticipated time of
49 completion: 5 working days.
50

1 Relocating existing utility poles (4) on west side of Pottery Avenue between Lippert
2 Drive and Sage Street, between May Street and Sunset Lane, and at Sunset Lane
3 intersection. Anticipated time of completion: 5 working days.
4

5 Gas line monitoring in multiple locations along Pottery Avenue. ***
6

7 The Contractor shall attend a mandatory utility preconstruction meeting with the Engineer,
8 all affected subcontractors, and all utility owners and their Contractors prior to beginning
9 onsite work.
10

11 The following addresses and telephone numbers of utility companies or their Contractors
12 that will be adjusting, relocating, replacing or constructing utilities within the project limits
13 are supplied for the Contractor's use:
14

15 *** Electric – PSE – Errol Burgos, Errol.burgos@pse.com, 425-324-5341
16 Telephone – Century Link, 1-800-283-4237
17 Gas – Cascade Natural Gas – Chester Butler, chester.butler@cngc.com, 360-
18 204-6732 or 360-328-6845 ***
19

20 *** Contractor shall coordinate with PSE and Century Link regarding utility relocation
21 requirements prior to installing improvements.
22 Cascade Natural Gas has a 4" and 6" gas mains that will require a monitor onsite
23 when excavating:
24

25 East side of Pottery Avenue north of the SR 16 overpass
26 West side of Sidney Road near SW Hovde Road and across intersection
27 Across the intersection of SW Berry Lake Road and Sidney Road SW ***
28

29 **Public Liability and Property Damage Insurance**

30 ***Insurance Provider Requirements***

31 Section 1-07.18(1) is supplemented with the following:
32

33 (March 9, 2023)
34 Under no circumstances shall a wrap up policy be obtained, for either initiating or
35 maintaining coverage, to satisfy insurance requirements for any policy required
36 under this section. A wrap up policy is defined as an insurance agreement or
37 arrangement under which all the parties working on a specified or designated project
38 are insured under one policy for liability arising out of that specified or designated
39 project.
40
41
42

43 ***Required Insurance Policies***

44 **Public Convenience and Safety**

45 ***Construction Under Traffic***

46 Section 1-07.23(1) is supplemented with the following:
47

48 (*****)
49 Lane, ramp, shoulder, and roadway closures are subject to the following restrictions:
50
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*** Contractor shall provide traffic control plans for approval by the Engineer no less than 10 business days prior to installation of traffic control. Portable changeable message signs shall be utilized a minimum of three days prior to construction informing the public of construction related traffic impacts. Impacts to traffic shall be minimized to the maximum extent possible during school arrival and dismissal times. The Contractor shall coordinate with the South Kitsap School District to determine these times and shall phase work so that traffic impacts during school pickup and drop off are minimized. Work affecting pedestrian access routes to Cedar Heights Middle School shall be phased so that a minimum of one accessible route is provided for pedestrian use at all times. School bus access shall be maintained at all times. ***

If the Engineer determines the permitted closure hours adversely affect traffic, the Engineer may adjust the hours accordingly. The Engineer will notify the Contractor in writing of any change in the closure hours. Exceptions to these restrictions are listed below and when applicable take precedence over closures listed above. The Engineer may also consider on a case-by-case basis additional exceptions following a written request by the Contractor.

Lane, ramp, shoulder, and roadway closures are not allowed on any of the following:

- 1. A holiday,
- 2. A holiday weekend; holidays that occur on Friday, Saturday, Sunday or Monday are considered a holiday weekend. A holiday weekend includes Saturday, Sunday, and the holiday.

Traffic Delays

When Automated Flagger Assistance Devices (AFADs) or flaggers are used to control traffic, traffic shall not be stopped for more than *** 5 *** minutes at any time. All traffic congestion shall be allowed to clear before traffic is delayed again.

If the delay becomes greater than *** 10 *** minutes, the Contractor shall immediately begin to take action to cease the operations that are causing the delays. If the *** 10 *** minute delay limit has been exceeded, as determined by the Engineer, the Contractor shall provide to the Engineer, a written proposal to revise his work operations to meet the *** 10 *** minute limit. This proposal shall be accepted by the Engineer prior to resuming any work requiring traffic control.

There shall be no delay to medical, fire, or other emergency vehicles. The Contractor shall alert all flaggers and personnel of this requirement.

General Restrictions

Construction vehicles using a closed traffic lane shall travel only in the normal direction of traffic flow unless expressly allowed in an accepted traffic control plan. Construction vehicles shall be equipped with flashing or rotating amber lights.

No two consecutive on-ramps, off-ramps, or intersections shall be closed at the same time and only one ramp at an interchange shall be closed, unless specifically shown in the Plans.

1 Roads or ramps that are designated as part of a detour shall not be closed or
2 restricted during the implementation of that detour, unless specifically shown in the
3 Plans.

4
5 **Controlled Access**

6 No special access or egress shall be allowed by the Contractor other than normal
7 legal movements or as shown in the Plans.

8
9 Contractor's vehicles of 10,000 GVW or greater shall not exit or enter a lane open to
10 public traffic except as follows:

11
12 Egress and ingress shall only occur during the hours of allowable lane closures,
13 and:

- 14
15 1. For exiting an open lane of traffic, by decelerating in a lane that is
16 closed during the allowable hours for lane closures.
17
18 2. For entering an open lane of traffic, by accelerating in a closed lane
19 during the allowable hours for lane closures.
20

21 Traffic control vehicles are excluded from the gross vehicle weight requirement. If
22 placing construction signs will restrict traveled lanes, then the work will be permitted
23 during the hours of allowable lane closures.
24

25 **Advance Notification**

26 The Contractor shall notify the Engineer in writing of any traffic impacts related to
27 lane closure, shoulder closure, sidewalk closure, or any combination for the week by
28 12:00 p.m. (noon) Wednesday the week prior to the stated impacts.
29

30 The Contractor shall notify the Engineer in writing ten working days in advance of
31 any traffic impacts related to full roadway closure, ramp closure, or both.
32

33 The Contractor shall notify the Engineer in writing of any changes to the stated traffic
34 impacts a minimum of 48 hours prior to the traffic impacts.
35

36 **Rights of Way**

37
38 **1-07.24 Rights of Way**
39 *(July 23, 2015 APWA GSP)*
40

41 Delete this section and replace it with the following:
42

43 Street Right of Way lines, limits of easements, and limits of construction permits are
44 indicated in the Plans. The Contractor's construction activities shall be confined within
45 these limits, unless arrangements for use of private property are made.
46

47 Generally, the Contracting Agency will have obtained, prior to bid opening, all rights of
48 way and easements, both permanent and temporary, necessary for carrying out the
49 work. Exceptions to this are noted in the Bid Documents or will be brought to the
50 Contractor's attention by a duly issued Addendum.
51

1 Whenever any of the work is accomplished on or through property other than public
2 Right of Way, the Contractor shall meet and fulfill all covenants and stipulations of any
3 easement agreement obtained by the Contracting Agency from the owner of the private
4 property. Copies of the easement agreements may be included in the Contract
5 Provisions or made available to the Contractor as soon as practical after they have been
6 obtained by the Engineer.

7
8 Whenever easements or rights of entry have not been acquired prior to advertising,
9 these areas are so noted in the Plans. The Contractor shall not proceed with any portion
10 of the work in areas where right of way, easements or rights of entry have not been
11 acquired until the Engineer certifies to the Contractor that the right of way or easement is
12 available or that the right of entry has been received. If the Contractor is delayed due to
13 acts of omission on the part of the Contracting Agency in obtaining easements, rights of
14 entry or right of way, the Contractor will be entitled to an extension of time. The
15 Contractor agrees that such delay shall not be a breach of contract.

16
17 Each property owner shall be given 48 hours notice prior to entry by the Contractor. This
18 includes entry onto easements and private property where private improvements must
19 be adjusted.

20
21 The Contractor shall be responsible for providing, without expense or liability to the
22 Contracting Agency, any additional land and access thereto that the Contractor may
23 desire for temporary construction facilities, storage of materials, or other Contractor
24 needs. However, before using any private property, whether adjoining the work or not,
25 the Contractor shall file with the Engineer a written permission of the private property
26 owner, and, upon vacating the premises, a written release from the property owner of
27 each property disturbed or otherwise interfered with by reasons of construction pursued
28 under this contract. The statement shall be signed by the private property owner, or
29 proper authority acting for the owner of the private property affected, stating that
30 permission has been granted to use the property and all necessary permits have been
31 obtained or, in the case of a release, that the restoration of the property has been
32 satisfactorily accomplished. The statement shall include the parcel number, address,
33 and date of signature. Written releases must be filed with the Engineer before the
34 Completion Date will be established.

35 36 **Prosecution and Progress**

37 38 **1-08 PROSECUTION AND PROGRESS**

39
40 Add the following new section:

41 42 **1-08.0 Preliminary Matters** 43 (May 25, 2006 APWA GSP)

44
45 Add the following new section:

46 47 **1-08.0(1) Preconstruction Conference** 48 (October 10, 2008 APWA GSP)

49

- 1 Prior to the Contractor beginning the work, a preconstruction conference will be held
2 between the Contractor, the Engineer and such other interested parties as may be
3 invited. The purpose of the preconstruction conference will be:
- 4 1. To review the initial progress schedule;
 - 5 2. To establish a working understanding among the various parties associated or
6 affected by the work;
 - 7 3. To establish and review procedures for progress payment, notifications, approvals,
8 submittals, etc.;
 - 9 4. To establish normal working hours for the work;
 - 10 5. To review safety standards and traffic control; and
 - 11 6. To discuss such other related items as may be pertinent to the work.

12
13 The Contractor shall prepare and submit at the preconstruction conference the following:

- 14 1. A breakdown of all lump sum items;
- 15 2. A preliminary schedule of working drawing submittals; and
- 16 3. A list of material sources for approval if applicable.

17

18 Add the following new section:

19

20 **1-08.0(2) Hours of Work**

21 *(December 8, 2014 APWA GSP)*

22

23 Except in the case of emergency or unless otherwise approved by the Engineer, the
24 normal working hours for the Contract shall be any consecutive 8-hour period between
25 7:00 a.m. and 6:00 p.m. Monday through Friday, exclusive of a lunch break. If the
26 Contractor desires different than the normal working hours stated above, the request
27 must be submitted in writing prior to the preconstruction conference, subject to the
28 provisions below. The working hours for the Contract shall be established at or prior to
29 the preconstruction conference.

30

31 All working hours and days are also subject to local permit and ordinance conditions (such
32 as noise ordinances).

33

34 If the Contractor wishes to deviate from the established working hours, the Contractor
35 shall submit a written request to the Engineer for consideration. This request shall state
36 what hours are being requested, and why. Requests shall be submitted for review no
37 later than 5 days prior to the day(s) the Contractor is requesting to change the hours.

38

39 If the Contracting Agency approves such a deviation, such approval may be subject to
40 certain other conditions, which will be detailed in writing. For example:

- 41 1. On non-Federal aid projects, requiring the Contractor to reimburse the
42 Contracting Agency for the costs in excess of straight-time costs for Contracting
43 Agency representatives who worked during such times. (The Engineer may
44 require designated representatives to be present during the work.
45 Representatives who may be deemed necessary by the Engineer include, but are
46 not limited to: survey crews; personnel from the Contracting Agency's material
47 testing lab; inspectors; and other Contracting Agency employees or third party
48 consultants when, in the opinion of the Engineer, such work necessitates their
49 presence.)

- 1 2. Considering the work performed on Saturdays, Sundays, and holidays as working
- 2 days with regard to the contract time.
- 3 3. Considering multiple work shifts as multiple working days with respect to contract
- 4 time even though the multiple shifts occur in a single 24-hour period.
- 5 4. If a 4-10 work schedule is requested and approved the non working day for the
- 6 week will be charged as a working day.
- 7 5. If Davis Bacon wage rates apply to this Contract, all requirements must be met
- 8 and recorded properly on certified payroll
- 9

10 **1-08.1(7)A Payment Certification**
11 *(December 30, 2022 APWA GSP)*

12
13 Delete this section.

14
15 **Progress Schedule**

16
17 ***Progress Schedule Types***

18
19 **1-08.3(2)B Type B Progress Schedule**
20 *(December 30, 2022 APWA GSP)*

21
22 Revise the first paragraph to read:

23
24 The Contractor shall submit a preliminary Type B Progress Schedule at or prior to the
25 preconstruction conference. The preliminary Type B Progress Schedule shall comply
26 with all of these requirements and the requirements of Section 1-08.3(1), except that it
27 may be limited to only those activities occurring within the first 60-working days of the
28 project.

29
30 Revise the first sentence of the second paragraph to read:

31
32 The Contractor shall submit one electronic copy of a Type B Progress Schedule
33 depicting the entire project no later than 21-calendar days after the preconstruction
34 conference.

35
36 **Prosecution of Work**

37
38 **1-08.4 Prosecution of Work**

39
40 Delete this section and replace it with the following:

41
42 **1-08.4 Notice to Proceed and Prosecution of Work**
43 *(July 23, 2015 APWA GSP)*

44
45 Notice to Proceed will be given after the contract has been executed and the contract
46 bond and evidence of insurance have been approved and filed by the Contracting
47 Agency. The Contractor shall not commence with the work until the Notice to Proceed
48 has been given by the Engineer. The Contractor shall commence construction activities
49 on the project site within ten days of the Notice to Proceed Date, unless otherwise
50 approved in writing. The Contractor shall diligently pursue the work to the physical

1 completion date within the time specified in the contract. Voluntary shutdown or slowing
2 of operations by the Contractor shall not relieve the Contractor of the responsibility to
3 complete the work within the time(s) specified in the contract.
4

5 When shown in the Plans, the first order of work shall be the installation of high visibility
6 fencing to delineate all areas for protection or restoration, as described in the Contract.
7 Installation of high visibility fencing adjacent to the roadway shall occur after the
8 placement of all necessary signs and traffic control devices in accordance with 1-10.1(2).
9 Upon construction of the fencing, the Contractor shall request the Engineer to inspect the
10 fence. No other work shall be performed on the site until the Contracting Agency has
11 accepted the installation of high visibility fencing, as described in the Contract.
12

13 **Time for Completion**

14 **1-08.5 Time for Completion** 15 *(December 30, 2022 APWA GSP, Option A)* 16

17
18
19 Revise the third and fourth paragraphs to read:
20

21 Contract time shall begin on the first working day following the Notice to Proceed Date.
22

23 Each working day shall be charged to the contract as it occurs, until the contract work is
24 physically complete. If substantial completion has been granted and all the authorized
25 working days have been used, charging of working days will cease. Each week the
26 Engineer will provide the Contractor a statement that shows the number of working days:
27 (1) charged to the contract the week before; (2) specified for the physical completion of
28 the contract; and (3) remaining for the physical completion of the contract. The statement
29 will also show the nonworking days and all partial or whole days the Engineer declares
30 as unworkable. The statement will be identified as a Written Determination by the
31 Engineer. If the Contractor does not agree with the Written Determination of working
32 days, the Contractor shall pursue the protest procedures in accordance with Section 1-
33 04.5. By failing to follow the procedures of Section 1-04.5, the Contractor shall be
34 deemed as having accepted the statement as correct. If the Contractor is approved to
35 work 10 hours a day and 4 days a week (a 4-10 schedule) and the fifth day of the week
36 in which a 4-10 shift is worked would ordinarily be charged as a working day then the
37 fifth day of that week will be charged as a working day whether or not the Contractor
38 works on that day.
39

40 Revise the sixth paragraph to read:
41

42 The Engineer will give the Contractor written notice of the completion date of the contract
43 after all the Contractor's obligations under the contract have been performed by the
44 Contractor. The following events must occur before the Completion Date can be
45 established:

- 46 1. The physical work on the project must be complete; and
- 47 2. The Contractor must furnish all documentation required by the contract and required
48 by law, to allow the Contracting Agency to process final acceptance of the contract.
49 The following documents must be received by the Project Engineer prior to
50 establishing a completion date:
 - 51 a. Certified Payrolls (per Section 1-07.9(5)).

- 1 b. Material Acceptance Certification Documents
- 2 c. Monthly Reports of Amounts Credited as DBE Participation, as required by the
- 3 Contract Provisions.
- 4 d. Final Contract Voucher Certification
- 5 e. Copies of the approved "Affidavit of Prevailing Wages Paid" for the Contractor
- 6 and all Subcontractors
- 7 f. A copy of the Notice of Termination sent to the Washington State Department of
- 8 Ecology (Ecology); the elapse of 30 calendar days from the date of receipt of the
- 9 Notice of Termination by Ecology; and no rejection of the Notice of Termination
- 10 by Ecology. This requirement will not apply if the Construction Stormwater
- 11 General Permit is transferred back to the Contracting Agency in accordance with
- 12 Section 8-01.3(16).
- 13 g. Property owner releases per Section 1-07.24

15 **Liquidated Damages**

17 **1-08.9 Liquidated Damages**

18 *(March 3, 2021 APWA GSP, Option B)*

20 Revise the second and third paragraphs to read:

22 Accordingly, the Contractor agrees:

- 24 1. To pay (according to the following formula) liquidated damages for each
- 25 working day beyond the number of working days established for Physical
- 26 Completion, and
- 27
- 28 2. To authorize the Engineer to deduct these liquidated damages from any
- 29 money due or coming due to the Contractor.

31 **Liquidated Damages Formula**

32
33 $LD=0.15C/T$

35 Where:

36
37 LD = liquidated damages per working day (rounded to the nearest dollar)

38 C = original Contract amount

39 T = original time for Physical Completion

40
41 When the Contract Work has progressed to Substantial Completion as defined in the
42 Contract, the Engineer may determine the Contract Work is Substantially Complete. The
43 Engineer will notify the Contractor in writing of the Substantial Completion Date. For
44 overruns in Contract time occurring after the date so established, the formula for
45 liquidated damages shown above will not apply. For overruns in Contract time occurring
46 after the Substantial Completion Date, liquidated damages shall be assessed on the
47 basis of direct engineering and related costs assignable to the project until the actual
48 Physical Completion Date of all the Contract Work. The Contractor shall complete the
49 remaining Work as promptly as possible. Upon request by the Project Engineer, the

1 Contractor shall furnish a written schedule for completing the physical Work on the
2 Contract.

3
4 **Payments**

5
6 **1-09.9 Payments**

7 *(March 13, 2012 APWA GSP)*

8
9 Supplement this section with the following:

10
11 Lump sum item breakdowns are not required when the bid price for the lump sum item is
12 less than \$20,000.

13
14 **1-09.9 Payments**

15 *(December 30, 2022 APWA GSP)*

16
17 Section 1-09.9 is revised to read:

18
19 The basis of payment will be the actual quantities of Work performed according to the
20 Contract and as specified for payment.

21
22 The Contractor shall submit a breakdown of the cost of lump sum bid items at the
23 Preconstruction Conference, to enable the Project Engineer to determine the Work
24 performed on a monthly basis. A breakdown is not required for lump sum items that
25 include a basis for incremental payments as part of the respective Specification. Absent
26 a lump sum breakdown, the Project Engineer will make a determination based on
27 information available. The Project Engineer's determination of the cost of work shall be
28 final.

29
30 Progress payments for completed work and material on hand will be based upon
31 progress estimates prepared by the Engineer. A progress estimate cutoff date will be
32 established at the preconstruction conference.

33
34 The initial progress estimate will be made not later than 30 days after the Contractor
35 commences the work, and successive progress estimates will be made every month
36 thereafter until the Completion Date. Progress estimates made during progress of the
37 work are tentative, and made only for the purpose of determining progress payments.
38 The progress estimates are subject to change at any time prior to the calculation of the
39 final payment.

40
41 The value of the progress estimate will be the sum of the following:

- 42
43
44
45
46
47
48
1. Unit Price Items in the Bid Form — the approximate quantity of acceptable units of work completed multiplied by the unit price.
 2. Lump Sum Items in the Bid Form — based on the approved Contractor's lump sum breakdown for that item, or absent such a breakdown, based on the Engineer's determination.
 3. Materials on Hand — 100 percent of invoiced cost of material delivered to Job site or other storage area approved by the Engineer.

1 4. Change Orders — entitlement for approved extra cost or completed extra work as
2 determined by the Engineer.
3

4 Progress payments will be made in accordance with the progress estimate less:
5 1. Retainage per Section 1-09.9(1), on non FHWA-funded projects;
6 2. The amount of progress payments previously made; and
7 3. Funds withheld by the Contracting Agency for disbursement in accordance with the
8 Contract Documents.
9

10 Progress payments for work performed shall not be evidence of acceptable performance
11 or an admission by the Contracting Agency that any work has been satisfactorily
12 completed. The determination of payments under the contract will be final in accordance
13 with Section 1-05.1.
14

15 Failure to perform obligations under the Contract by the Contractor may be decreed by the
16 Contracting Agency to be adequate reason for withholding any payments until compliance
17 is achieved.
18

19 Upon completion of all Work and after final inspection (Section 1-05.11), the amount due
20 the Contractor under the Contract will be paid based upon the final estimate made by the
21 Engineer and presentation of a Final Contract Voucher Certification to be signed by the
22 Contractor. The Contractor's signature on such voucher shall be deemed a release of all
23 claims of the Contractor unless a Certified Claim is filed in accordance with the
24 requirements of Section 1-09.11 and is expressly excepted from the Contractor's
25 certification on the Final Contract Voucher Certification. The date the Contracting Agency
26 signs the Final Contract Voucher Certification constitutes the final acceptance date
27 (Section 1-05.12).
28

29 If the Contractor fails, refuses, or is unable to sign and return the Final Contract Voucher
30 Certification or any other documentation required for completion and final acceptance of
31 the Contract, the Contracting Agency reserves the right to establish a Completion Date (for
32 the purpose of meeting the requirements of RCW 60.28) and unilaterally accept the
33 Contract. Unilateral final acceptance will occur only after the Contractor has been provided
34 the opportunity, by written request from the Engineer, to voluntarily submit such
35 documents. If voluntary compliance is not achieved, formal notification of the impending
36 establishment of a Completion Date and unilateral final acceptance will be provided by
37 email with delivery confirmation from the Contracting Agency to the Contractor, which will
38 provide 30 calendar days for the Contractor to submit the necessary documents. The 30
39 calendar day period will begin on the date the email with delivery confirmation is received
40 by the Contractor. The date the Contracting Agency unilaterally signs the Final Contract
41 Voucher Certification shall constitute the Completion Date and the final acceptance date
42 (Section 1-05.12). The reservation by the Contracting Agency to unilaterally accept the
43 Contract will apply to Contracts that are Physically Completed in accordance with Section
44 1-08.5, or for Contracts that are terminated in accordance with Section 1-08.10. Unilateral
45 final acceptance of the Contract by the Contracting Agency does not in any way relieve
46 the Contractor of their responsibility to comply with all Federal, State, tribal, or local laws,
47 ordinances, and regulations that affect the Work under the Contract.
48

49 Payment to the Contractor of partial estimates, final estimates, and retained percentages
50 shall be subject to controlling laws.
51

1 **1-10 Temporary Traffic Control**

2

3 **1-10.2 Traffic Control Management**

4

5 **1-10.2(1) General**

6

7 Section 1-10.2(1) is supplemented with the following:

8

9 (October 3, 2022)

10 The Traffic Control Supervisor shall be certified by one of the following:

11

12 The Northwest Laborers-Employers Training Trust
13 27055 Ohio Ave.
14 Kingston, WA 98346
15 (360) 297-3035
16 <https://www.nwlett.edu>

17

18 Evergreen Safety Council
19 12545 135th Ave. NE
20 Kirkland, WA 98034-8709
21 1-800-521-0778
22 <https://www.esc.org>

23

24 The American Traffic Safety Services Association
25 15 Riverside Parkway, Suite 100
26 Fredericksburg, Virginia 22406-1022
27 Training Dept. Toll Free (877) 642-4637
28 Phone: (540) 368-1701
29 <https://atssa.com/training>

30

31 Integrity Safety
32 13912 NE 20th Ave.
33 Vancouver, WA 98686
34 (360) 574-6071
35 <https://www.integritysafety.com>

36

37 US Safety Alliance
38 (904) 705-5660
39 <https://www.ussafetyalliance.com>

40

41 K&D Services Inc.
42 2719 Rockefeller Ave.
43 Everett, WA 98201
44 (800) 343-4049
45 <https://www.kndservices.net>

46

47 **1-10.4 Measurement**

48

49 **1-10.4(1) Lump Sum Bid for Project (No Unit Items)**

50

51 Section 1-10.4(1) is supplemented with the following:

52

1 (August 2, 2004)
2 The proposal contains the item "Project Temporary Traffic Control", lump sum. The
3 provisions of Section 1-10.4(1) shall apply.
4

5 **Division 2**
6 **Earthwork**
7

8 **2-02 Removal of Structures and Obstructions**
9

10 **2-02.1 Description**
11

12 Section 2-02.1 is supplemented with the following:
13

14 ***(October 4, 2021)***
15 ***Removal and Disposal of Asbestos Material***

16 This work shall consist of removing, handling, and disposing of Asbestos Containing
17 Material and Presumed Asbestos Containing Material identified in the Good Faith
18 Investigation (GFI). The Contractor shall remove and dispose of asbestos in any and all
19 areas as identified in the GFI.
20

21 **2-02.3 Construction Requirements**
22

23 Section 2-02.3 is supplemented with the following:
24

25 ***(September 7, 2021)***
26 ***Removal of Obstructions***

27 The following miscellaneous Obstructions shall be removed and disposed of:
28

29 *** Valve Box	4 each
30 Water Meter Box	8 each
31 Manhole Top Section	1 each ***

32

33 ***(October 4, 2021)***
34 ***Removal and Disposal of Asbestos Material***

35 Prior to performance of any contract work, the Contractor shall obtain all permits from and
36 provide notification to, the Washington State Department of Labor and Industries, the
37 Washington State Department of Ecology, the local clean air agency, and other permitting
38 and regulatory agencies with jurisdiction over the work involving asbestos as the laws,
39 rules, and regulations require.
40

41 Prior to commencing asbestos related work, the Contractor shall submit as a Type 1
42 Working Drawing any and all written verification of approvals and notifications that have
43 been given and/or obtained from the required jurisdictional agencies. The Contractor shall
44 include a schedule of activities for all work involving asbestos removal as part of the Type
45 1 Working Drawing. Asbestos related work shall also be shown on the Contractor's project
46 progress schedule.
47

48 The Contractor shall designate a Washington State Certified Asbestos Supervisor (CAS),
49 certified in accordance with WAC 295-65-012, to supervise the asbestos removal and to
50 ensure that the handling and removal of asbestos is accomplished by certified asbestos
51 workers, pursuant to Washington State Department of Labor and Industries standards.

1 The Contractor shall ensure that the removal and disposal of asbestos meets the
2 requirements of EPA regulation 40 CFR Part 61, local health department regulations, and
3 all other applicable regulations.
4

5 The Contractor shall ensure the safety of all workers, visitors to the site, and the public in
6 accordance with all applicable laws, rules, and regulations.
7

8 **2-02.5 Payment**
9

10 Section 2-02.5 is supplemented with the following:
11

12 (September 30, 1996)
13 "Removal and Disposal of Asbestos Material", lump sum.
14

15 **2-03 Roadway Excavation and Embankment**
16

17 **2-03.4 Measurement**
18

19 Section 2-03.4 is supplemented with the following:
20

21 (March 13, 1995)
22 Only one determination of the original ground elevation will be made on this project.
23 Measurement for roadway excavation and embankment will be based on the original
24 ground elevations recorded previous to the award of this contract.
25

26 If discrepancies are discovered in the ground elevations which will materially affect the
27 quantities of earthwork, the original computations of earthwork quantities will be adjusted
28 accordingly.
29

30 Earthwork quantities will be computed, either manually or by means of electronic data
31 processing equipment, by use of the average end area method or by the finite element
32 analysis method utilizing digital terrain modeling techniques.
33

34 Copies of the ground cross-section notes will be available for the bidder's inspection,
35 before the opening of bids, at the Engineer's office and at the Region office.
36

37 Upon award of the contract, copies of the original ground cross-sections will be furnished
38 to the successful bidder on request to the Engineer.
39

40 **Division 5**
41 **Surface Treatments and Pavements**
42

43 **Hot Mix Asphalt**
44

45 **5-04 Hot Mix Asphalt**
46 *(January 31, 2023 APWA GSP)*
47

48 Delete Section 5-04, Hot Mix Asphalt, and replace it with the following:
49

50 **5-04.1 Description**

1 This Work shall consist of providing and placing one or more layers of plant-mixed hot
2 mix asphalt (HMA) on a prepared foundation or base in accordance with these
3 Specifications and the lines, grades, thicknesses, and typical cross-sections shown
4 in the Plans. The manufacture of HMA may include warm mix asphalt (WMA) processes
5 in accordance with these Specifications. WMA processes include organic additives,
6 chemical additives, and foaming.

7
8 HMA shall be composed of asphalt binder and mineral materials as may be required,
9 mixed in the proportions specified to provide a homogeneous, stable,
10 and workable mixture.

11
12 **5-04.2 Materials**

13 Materials shall meet the requirements of the following sections:

14	Asphalt Binder	9-02.1(4)
15	Cationic Emulsified Asphalt	9-02.1(6)
16	Anti-Stripping Additive	9-02.4
17	HMA Additive	9-02.5
18	Aggregates	9-03.8
19	Recycled Asphalt Pavement (RAP)	9-03.8(3)B, 9-03.21
20	Reclaimed Asphalt Shingles (RAS)	9-03.8(3)B, 9-03.21
21	Mineral Filler	9-03.8(5)
22	Recycled Material	9-03.21

23
24 The Contract documents may establish that the various mineral materials required for
25 the manufacture of HMA will be furnished in whole or in part by the Contracting Agency.
26 If the documents do not establish the furnishing of any of these mineral materials by the
27 Contracting Agency, the Contractor shall be required to furnish such materials in the
28 amounts required for the designated mix. Mineral materials include coarse and fine
29 aggregates, and mineral filler.

30
31 The Contractor may choose to utilize recycled asphalt pavement (RAP) in the production
32 of HMA. The RAP may be from pavements removed under the Contract, if any, or
33 pavement material from an existing stockpile.

34
35 The Contractor may use up to 20 percent RAP by total weight of HMA with no additional
36 sampling or testing of the RAP.

37
38 If the Contractor wishes to utilize High RAP/Any RAS, the design must be listed on the
39 WSDOT Qualified Products List (QPL).

40
41 The grade of asphalt binder shall be as required by the Contract. Blending of asphalt
42 binder from different sources is not permitted.

43
44 The Contractor may only use warm mix asphalt (WMA) processes in the production of
45 HMA with 20 percent or less RAP by total weight of HMA. The Contractor shall submit to
46 the Engineer for approval the process that is proposed and how it will be used in the
47 manufacture of HMA.

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Production of aggregates shall comply with the requirements of Section 3-01. Preparation of stockpile site, the stockpiling of aggregates, and the removal of aggregates from stockpiles shall comply with the requirements of Section 3-02.

5-04.2(1) How to Get an HMA Mix Design on the QPL

If the Contractor wishes to submit a mix design for inclusion in the Qualified Products List (QPL), please follow the WSDOT process outlined in Standard Specification 5-04.2(1).

5-04.2(1)A Vacant

5-04.2(2) Mix Design - Obtaining Project Approval

No paving shall begin prior to the approval of the mix design by the Engineer.

Nonstatistical evaluation will be used for all HMA not designated as Commercial HMA in the Contract documents.

Commercial evaluation will be used for Commercial HMA and for other classes of HMA in the following applications: sidewalks, road approaches, ditches, slopes, paths, trails, gores, prelevel, temporary pavement, and pavement repair. Other nonstructural applications of HMA accepted by commercial evaluation shall be as approved by the Project Engineer. Sampling and testing of HMA accepted by commercial evaluation will be at the option of the Project Engineer. The Proposal quantity of HMA that is accepted by commercial evaluation will be excluded from the quantities used in the determination of nonstatistical evaluation.

Nonstatistical Mix Design. Fifteen days prior to the first day of paving the Contractor shall provide one of the following mix design verification certifications for Contracting Agency review;

- The WSDOT Mix Design Evaluation Report from the current WSDOT QPL, or one of the mix design verification certifications listed below.
- The proposed HMA mix design on WSDOT Form 350-042 with the seal and certification (stamp & signature) of a valid licensed Washington State Professional Engineer.
- The Mix Design Report for the proposed HMA mix design developed by a qualified City or County laboratory that is within one year of the approval date.

The mix design shall be performed by a lab accredited by a national authority such as Laboratory Accreditation Bureau, L-A-B for Construction Materials Testing, The Construction Materials Engineering Council (CMEC's) ISO 17025 or AASHTO Accreditation Program (AAP) and shall supply evidence of participation in the AASHTO: resource proficiency sample program.

Mix designs for HMA accepted by Nonstatistical evaluation shall:

- Be designed for ***\$1\$\$*** million equivalent single axle loads (ESALs).
- Have the aggregate structure and asphalt binder content determined in accordance with WSDOT Standard Operating Procedure 732 and meet the

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requirements of Sections 9-03.8(2), except that Hamburg testing for ruts and stripping are at the discretion of the Engineer, and 9-03.8(6).

- Have anti-strip requirements, if any, for the proposed mix design determined in accordance with AASHTO T 283 or T 324 or based on historic anti-strip and aggregate source compatibility from previous WSDOT lab testing.

At the discretion of the Engineer, agencies may accept verified mix designs older than 12 months from the original verification date with a certification from the Contractor that the materials and sources are the same as those shown on the original mix design.

Commercial Evaluation Mix Design. Approval of a mix design for “Commercial Evaluation” will be based on a review of the Contractor’s submittal of WSDOT Form 350-042 (for commercial mixes, AASHTO T 324 evaluation is not required) or a Mix Design from the current WSDOT QPL or from one of the processes allowed by this section. Testing of the HMA by the Contracting Agency for mix design approval is not required.

For the Bid Item Commercial HMA, the Contractor shall select a class of HMA and design level of ESALs appropriate for the required use.

5-04.2(2)B Using Warm Mix Asphalt Processes

The Contractor may elect to use additives that reduce the optimum mixing temperature or serve as a compaction aid for producing HMA. Additives include organic additives, chemical additives and foaming processes. The use of Additives is subject to the following:

- Do not use additives that reduce the mixing temperature more than allowed in Section 5-04.3(6) in the production of mixtures.
- Before using additives, obtain the Engineer’s approval using WSDOT Form 350-076 to describe the proposed additive and process.

5-04.3 Construction Requirements

5-04.3(1) Weather Limitations

Do not place HMA for wearing course on any Traveled Way beginning October 1st through March 31st of the following year without written concurrence from the Engineer.

Do not place HMA on any wet surface, or when the average surface temperatures are less than those specified below, or when weather conditions otherwise prevent the proper handling or finishing of the HMA.

Minimum Surface Temperature for Paving

Compacted Thickness (Feet)	Wearing Course	Other Courses
Less than 0.10	55°F	45°F
0.10 to .20	45°F	35°F

More than 0.20	35°F	35°F
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5-04.3(2) Paving Under Traffic

When the Roadway being paved is open to traffic, the requirements of this Section shall apply.

The Contractor shall keep intersections open to traffic at all times except when paving the intersection or paving across the intersection. During such time, and provided that there has been an advance warning to the public, the intersection may be closed for the minimum time required to place and compact the mixture. In hot weather, the Engineer may require the application of water to the pavement to accelerate the finish rolling of the pavement and to shorten the time required before reopening to traffic.

Before closing an intersection, advance warning signs shall be placed, and signs shall also be placed marking the detour or alternate route.

During paving operations, temporary pavement markings shall be maintained throughout the project. Temporary pavement markings shall be installed on the Roadway prior to opening to traffic. Temporary pavement markings shall be in accordance with Section 8-23.

All costs in connection with performing the Work in accordance with these requirements, except the cost of temporary pavement markings, shall be included in the unit Contract prices for the various Bid items involved in the Contract.

5-04.3(3) Equipment

5-04.3(3)A Mixing Plant

Plants used for the preparation of HMA shall conform to the following requirements:

1. **Equipment for Preparation of Asphalt Binder** – Tanks for the storage of asphalt binder shall be equipped to heat and hold the material at the required temperatures. The heating shall be accomplished by steam coils, electricity, or other approved means so that no flame shall be in contact with the storage tank. The circulating system for the asphalt binder shall be designed to ensure proper and continuous circulation during the operating period. A valve for the purpose of sampling the asphalt binder shall be placed in either the storage tank or in the supply line to the mixer.

2. **Thermometric Equipment** – An armored thermometer, capable of detecting temperature ranges expected in the HMA mix, shall be fixed in the asphalt binder feed line at a location near the charging valve at the mixer unit. The thermometer location shall be convenient and safe for access by Inspectors. The plant shall also be equipped with an approved dial-scale thermometer, a mercury actuated thermometer, an electric pyrometer, or another approved thermometric instrument placed at the discharge chute of the drier to automatically register or

1 indicate the temperature of the heated aggregates. This device shall be in full
2 view of the plant operator.

3
4 **3. Heating of Asphalt Binder** – The temperature of the asphalt binder shall not
5 exceed the maximum recommended by the asphalt binder manufacturer nor shall
6 it be below the minimum temperature required to maintain the asphalt binder in a
7 homogeneous state. The asphalt binder shall be heated in a manner that will
8 avoid local variations in heating. The heating method shall provide a continuous
9 supply of asphalt binder to the mixer at a uniform average temperature with no
10 individual variations exceeding 25°F. Also, when a WMA additive is included in
11 the asphalt binder, the temperature of the asphalt binder shall not exceed the
12 maximum recommended by the manufacturer of the WMA additive.

13
14 **4. Sampling and Testing of Mineral Materials** – The HMA plant shall be equipped
15 with a mechanical sampler for the sampling of the mineral materials. The
16 mechanical sampler shall meet the requirements of Section 1-05.6 for the
17 crushing and screening operation. The Contractor shall provide for the setup and
18 operation of the field-testing facilities of the Contracting Agency as provided for in
19 Section 3-01.2(2).
20

21 **5. Sampling HMA** – The HMA plant shall provide for sampling HMA by one of the
22 following methods:

- 23
24 a. A mechanical sampling device attached to the HMA plant.
25
26 b. Platforms or devices to enable sampling from the hauling vehicle without
27 entering the hauling vehicle.
28

29 **5-04.3(3)B Hauling Equipment**

30 Trucks used for hauling HMA shall have tight, clean, smooth metal beds and shall have a
31 cover of canvas or other suitable material of sufficient size to protect the mixture from
32 adverse weather. Whenever the weather conditions during the work shift include, or are
33 forecast to include precipitation or an air temperature less than 45°F or when time from
34 loading to unloading exceeds 30 minutes, the cover shall be securely attached to protect
35 the HMA.
36

37 The Contractor shall provide an environmentally benign means to prevent the HMA
38 mixture from adhering to the hauling equipment. Excess release agent shall be drained
39 prior to filling hauling equipment with HMA. Petroleum derivatives or other coating
40 material that contaminate or alter the characteristics of the HMA shall not be used. For
41 live bed trucks, the conveyer shall be in operation during the process of applying the
42 release agent.
43

44 **5-04.3(3)C Pavers**

45 HMA pavers shall be self-contained, power-propelled units, provided with an internally
46 heated vibratory screed and shall be capable of spreading and finishing courses of HMA
47 plant mix material in lane widths required by the paving section shown in the Plans.
48

1 The HMA paver shall be in good condition and shall have the most current equipment
2 available from the manufacturer for the prevention of segregation of the HMA mixture
3 installed, in good condition, and in working order. The equipment certification shall list
4 the make, model, and year of the paver and any equipment that has been retrofitted.

5
6 The screed shall be operated in accordance with the manufacturer's recommendations
7 and shall effectively produce a finished surface of the required evenness and texture
8 without tearing, shoving, segregating, or gouging the mixture. A copy of the
9 manufacturer's recommendations shall be provided upon request by the Contracting
10 Agency. Extensions will be allowed provided they produce the same results, including
11 ride, density, and surface texture as obtained by the primary screed. Extensions without
12 augers and an internally heated vibratory screed shall not be used in the Traveled Way.

13
14 When specified in the Contract, reference lines for vertical control will be required. Lines
15 shall be placed on both outer edges of the Traveled Way of each Roadway. Horizontal
16 control utilizing the reference line will be permitted. The grade and slope for intermediate
17 lanes shall be controlled automatically from reference lines or by means of a mat
18 referencing device and a slope control device. When the finish of the grade prepared for
19 paving is superior to the established tolerances and when, in the opinion of the Engineer,
20 further improvement to the line, grade, cross-section, and smoothness can best be
21 achieved without the use of the reference line, a mat referencing device may be
22 substituted for the reference line. Substitution of the device will be subject to the
23 continued approval of the Engineer. A joint matcher may be used subject to the approval
24 of the Engineer. The reference line may be removed after the completion of the first
25 course of HMA when approved by the Engineer. Whenever the Engineer determines that
26 any of these methods are failing to provide the necessary vertical control, the reference
27 lines will be reinstalled by the Contractor.

28
29 The Contractor shall furnish and install all pins, brackets, tensioning devices, wire, and
30 accessories necessary for satisfactory operation of the automatic control equipment.

31
32 If the paving machine in use is not providing the required finish, the Engineer may
33 suspend Work as allowed by Section 1-08.6. Any cleaning or solvent type liquids spilled
34 on the pavement shall be thoroughly removed before paving proceeds.

35
36 **5-04.3(3)D Material Transfer Device or Material Transfer Vehicle**

37 A Material Transfer Device/Vehicle (MTD/V) shall only be used with the Engineer's
38 approval, unless otherwise required by the Contract.

39
40 Where an MTD/V is required by the Contract, the Engineer may approve paving without
41 an MTD/V, at the request of the Contractor. The Engineer will determine if an equitable
42 adjustment in cost or time is due.

43
44 When used, the MTD/V shall mix the HMA after delivery by the hauling equipment and
45 prior to laydown by the paving machine. Mixing of the HMA shall be sufficient to obtain a
46 uniform temperature throughout the mixture. If a windrow elevator is used, the length of
47 the windrow may be limited in urban areas or through intersections, at the discretion of
48 the Engineer.

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To be approved for use, an MTV:

1. Shall be self-propelled vehicle, separate from the hauling vehicle or paver.
2. Shall not be connected to the hauling vehicle or paver.
3. May accept HMA directly from the haul vehicle or pick up HMA from a windrow.
4. Shall mix the HMA after delivery by the hauling equipment and prior to placement into the paving machine.
5. Shall mix the HMA sufficiently to obtain a uniform temperature throughout the mixture.

To be approved for use, an MTD:

1. Shall be positively connected to the paver.
2. May accept HMA directly from the haul vehicle or pick up HMA from a windrow.
3. Shall mix the HMA after delivery by the hauling equipment and prior to placement into the paving machine.
4. Shall mix the HMA sufficiently to obtain a uniform temperature throughout the mixture.

5-04.3(3)E Rollers

Rollers shall be of the steel wheel, vibratory, oscillatory, or pneumatic tire type, in good condition and capable of reversing without backlash. Operation of the roller shall be in accordance with the manufacturer's recommendations. When ordered by the Engineer for any roller planned for use on the project, the Contractor shall provide a copy of the manufacturer's recommendation for the use of that roller for compaction of HMA. The number and weight of rollers shall be sufficient to compact the mixture in compliance with the requirements of Section 5-04.3(10). The use of equipment that results in crushing of the aggregate will not be permitted. Rollers producing pickup, washboard, uneven compaction of the surface, displacement of the mixture or other undesirable results shall not be used.

5-04.3(4) Preparation of Existing Paved Surfaces

When the surface of the existing pavement or old base is irregular, the Contractor shall bring it to a uniform grade and cross-section as shown on the Plans or approved by the Engineer.

1 Preleveling of uneven or broken surfaces over which HMA is to be placed may be
2 accomplished by using an asphalt paver, a motor patrol grader, or by hand raking, as
3 approved by the Engineer.

4

5 Compaction of preleveling HMA shall be to the satisfaction of the Engineer and may
6 require the use of small steel wheel rollers, plate compactors, or pneumatic rollers to
7 avoid bridging across preleveled areas by the compaction equipment. Equipment used
8 for the compaction of preleveling HMA shall be approved by the Engineer.

9

10 Before construction of HMA on an existing paved surface, the entire surface of the
11 pavement shall be clean. All fatty asphalt patches, grease drippings, and other
12 objectionable matter shall be entirely removed from the existing pavement. All
13 pavements or bituminous surfaces shall be thoroughly cleaned of dust, soil, pavement
14 grindings, and other foreign matter. All holes and small depressions shall be filled with an
15 appropriate class of HMA. The surface of the patched area shall be leveled and
16 compacted thoroughly. Prior to the application of tack coat, or paving, the condition of
17 the surface shall be approved by the Engineer.

18

19 A tack coat of asphalt shall be applied to all paved surfaces on which any course of HMA
20 is to be placed or abutted; except that tack coat may be omitted from clean, newly paved
21 surfaces at the discretion of the Engineer. Tack coat shall be uniformly applied to cover
22 the existing pavement with a thin film of residual asphalt free of streaks and bare spots at
23 a rate between 0.02 and 0.10 gallons per square yard of retained asphalt. The rate of
24 application shall be approved by the Engineer. A heavy application of tack coat shall be
25 applied to all joints. For Roadways open to traffic, the application of tack coat shall be
26 limited to surfaces that will be paved during the same working shift. The spreading
27 equipment shall be equipped with a thermometer to indicate the temperature of the tack
28 coat material.

29

30 Equipment shall not operate on tacked surfaces until the tack has broken and cured. If
31 the Contractor's operation damages the tack coat it shall be repaired prior to placement
32 of the HMA.

33

34 The tack coat shall be CSS-1, or CSS-1h emulsified asphalt. The CSS-1 and CSS-1h
35 emulsified asphalt may be diluted once with water at a rate not to exceed one-part water
36 to one-part emulsified asphalt. The tack coat shall have sufficient temperature such that
37 it may be applied uniformly at the specified rate of application and shall not exceed the
38 maximum temperature recommended by the emulsified asphalt manufacturer.

39

40 **5-04.3(4)A Crack Sealing**

41 When the Proposal includes a pay item for crack sealing, seal cracks in accordance with
42 Section 5-03.

43

44 **5-04.3(4)B Vacant**

45

46 **5-04.3(4)C Pavement Repair**

47 The Contractor shall excavate pavement repair areas and shall backfill these with HMA
48 in accordance with the details shown in the Plans and as marked in the field. The

1 Contractor shall conduct the excavation operations in a manner that will protect the
2 pavement that is to remain. Pavement not designated to be removed that is damaged as
3 a result of the Contractor's operations shall be repaired by the Contractor to the
4 satisfaction of the Engineer at no cost to the Contracting Agency. The Contractor shall
5 excavate only within one lane at a time unless approved otherwise by the Engineer. The
6 Contractor shall not excavate more area than can be completely finished during the
7 same shift, unless approved by the Engineer.

8

9 Unless otherwise shown in the Plans or determined by the Engineer, excavate to a depth
10 of 1.0 feet. The Engineer will make the final determination of the excavation depth
11 required. The minimum width of any pavement repair area shall be 40 inches unless
12 shown otherwise in the Plans. Before any excavation, the existing pavement shall be
13 sawcut or shall be removed by a pavement grinder. Excavated materials will become the
14 property of the Contractor and shall be disposed of in a Contractor-provided site off the
15 Right of Way or used in accordance with Sections 2-02.3(3) or 9-03.21.

16

17 Asphalt for tack coat shall be required as specified in Section 5-04.3(4). A heavy
18 application of tack coat shall be applied to all surfaces of existing pavement in the
19 pavement repair area.

20

21 Placement of the HMA backfill shall be accomplished in lifts not to exceed 0.35-foot
22 compacted depth. Lifts that exceed 0.35-foot of compacted depth may be accomplished
23 with the approval of the Engineer. Each lift shall be thoroughly compacted by a
24 mechanical tamper or a roller.

25

26 **5-04.3(5) Producing/Stockpiling Aggregates and RAP**

27 Aggregates and RAP shall be stockpiled according to the requirements of Section 3-02.
28 Sufficient storage space shall be provided for each size of aggregate and RAP. Materials
29 shall be removed from stockpile(s) in a manner to ensure minimal segregation when
30 being moved to the HMA plant for processing into the final mixture. Different aggregate
31 sizes shall be kept separated until they have been delivered to the HMA plant.

32

33 **5-04.3(5)A Vacant**

34

35 **5-04.3(6) Mixing**

36 After the required amount of mineral materials, asphalt binder, recycling agent and anti-
37 stripping additives have been introduced into the mixer the HMA shall be mixed until
38 complete and uniform coating of the particles and thorough distribution of the asphalt
39 binder throughout the mineral materials is ensured.

40

41 When discharged, the temperature of the HMA shall not exceed the optimum mixing
42 temperature by more than 25°F as shown on the reference mix design report or as
43 approved by the Engineer. Also, when a WMA additive is included in the manufacture of
44 HMA, the discharge temperature of the HMA shall not exceed the maximum
45 recommended by the manufacturer of the WMA additive. A maximum water content of 2
46 percent in the mix, at discharge, will be allowed providing the water causes no problems
47 with handling, stripping, or flushing. If the water in the HMA causes any of these
48 problems, the moisture content shall be reduced as directed by the Engineer.

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Storing or holding of the HMA in approved storage facilities will be permitted with approval of the Engineer, but in no event shall the HMA be held for more than 24 hours. HMA held for more than 24 hours after mixing shall be rejected. Rejected HMA shall be disposed of by the Contractor at no expense to the Contracting Agency. The storage facility shall have an accessible device located at the top of the cone or about the third point. The device shall indicate the amount of material in storage. No HMA shall be accepted from the storage facility when the HMA in storage is below the top of the cone of the storage facility, except as the storage facility is being emptied at the end of the working shift.

Recycled asphalt pavement (RAP) utilized in the production of HMA shall be sized prior to entering the mixer so that a uniform and thoroughly mixed HMA is produced. If there is evidence of the recycled asphalt pavement not breaking down during the heating and mixing of the HMA, the Contractor shall immediately suspend the use of the RAP until changes have been approved by the Engineer. After the required amount of mineral materials, RAP, new asphalt binder and asphalt rejuvenator have been introduced into the mixer the HMA shall be mixed until complete and uniform coating of the particles and thorough distribution of the asphalt binder throughout the mineral materials, and RAP is ensured.

5-04.3(7) Spreading and Finishing

The mixture shall be laid upon an approved surface, spread, and struck off to the grade and elevation established. HMA pavers complying with Section 5-04.3(3) shall be used to distribute the mixture. Unless otherwise directed by the Engineer, the nominal compacted depth of any layer of any course shall not exceed the following:

HMA Class 1"	0.35 feet
HMA Class ¾" and HMA Class ½"	
wearing course	0.30 feet
other courses	0.35 feet
HMA Class ⅜"	0.15 feet

On areas where irregularities or unavoidable obstacles make the use of mechanical spreading and finishing equipment impractical, the paving may be done with other equipment or by hand.

When more than one JMF is being utilized to produce HMA, the material produced for each JMF shall be placed by separate spreading and compacting equipment. The intermingling of HMA produced from more than one JMF is prohibited. Each strip of HMA placed during a work shift shall conform to a single JMF established for the class of HMA specified unless there is a need to make an adjustment in the JMF.

5-04.3(8) Aggregate Acceptance Prior to Incorporation in HMA

For HMA accepted by nonstatistical evaluation, the aggregate properties of sand equivalent, uncompacted void content, and fracture will be evaluated in accordance with Section 3-04. Sampling and testing of aggregates for HMA accepted by commercial evaluation will be at the option of the Engineer.

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5-04.3(9) HMA Mixture Acceptance

Acceptance of HMA shall be as provided under nonstatistical, or commercial evaluation.

Nonstatistical evaluation will be used for the acceptance of HMA unless Commercial Evaluation is specified.

Commercial evaluation will be used for Commercial HMA and for other classes of HMA in the following applications: sidewalks, road approaches, ditches, slopes, paths, trails, gores, prelevel, temporary pavement, and pavement repair. Other nonstructural applications of HMA accepted by commercial evaluation shall be as approved by the Engineer. Sampling and testing of HMA accepted by commercial evaluation will be at the option of the Engineer.

The mix design will be the initial JMF for the class of HMA. The Contractor may request a change in the JMF. Any adjustments to the JMF will require the approval of the Engineer and may be made in accordance with this section.

HMA Tolerances and Adjustments

- 1. **Job Mix Formula Tolerances** – The constituents of the mixture at the time of acceptance shall be within tolerance. The tolerance limits will be established as follows:

For Asphalt Binder and Air Voids (Va), the acceptance limits are determined by adding the tolerances below to the approved JMF values. These values will also be the Upper Specification Limit (USL) and Lower Specification Limit (LSL) required in Section 1-06.2(2)D2

Property	Non-Statistical Evaluation	Commercial Evaluation
Asphalt Binder	+/- 0.5%	+/- 0.7%
Air Voids, Va	2.5% min. and 5.5% max	N/A

For Aggregates in the mixture:

- a. First, determine preliminary upper and lower acceptance limits by applying the following tolerances to the approved JMF.

Aggregate Percent Passing	Non-Statistical Evaluation	Commercial Evaluation
1", ¾", ½", and 3/8" sieves	+/- 6%	+/- 8%
No. 4 sieve	+/-6%	+/- 8%
No. 8 Sieve	+/- 6%	+/-8%
No. 200 sieve	+/- 2.0%	+/- 3.0%

- b. Second, adjust the preliminary upper and lower acceptance limits determined from step (a) the minimum amount necessary so that none of the aggregate properties are outside the control points in Section 9-03.8(6). The resulting values will be the upper and lower acceptance limits

1 for aggregates, as well as the USL and LSL required in Section 1-
2 06.2(2)D2.

3
4 2. Job Mix Formula Adjustments – An adjustment to the aggregate gradation or
5 asphalt binder content of the JMF requires approval of the Engineer. Adjustments
6 to the JMF will only be considered if the change produces material of equal or
7 better quality and may require the development of a new mix design if the
8 adjustment exceeds the amounts listed below.

9
10 a. **Aggregates** –2 percent for the aggregate passing the 1½", 1", ¾", ½", ⅜", and
11 the No. 4 sieves, 1 percent for aggregate passing the No. 8 sieve, and 0.5
12 percent for the aggregate passing the No. 200 sieve. The adjusted JMF shall
13 be within the range of the control points in Section 9-03.8(6).

14
15 b. **Asphalt Binder Content** – The Engineer may order or approve changes to
16 asphalt binder content. The maximum adjustment from the approved mix
17 design for the asphalt binder content shall be 0.3 percent.

18
19 **5-04.3(9)A Vacant**

20
21 **5-04.3(9)B Vacant**

22
23 **5-04.3(9)C Mixture Acceptance – Nonstatistical Evaluation**

24 HMA mixture which is accepted by Nonstatistical Evaluation will be evaluated by the
25 Contracting Agency by dividing the HMA tonnage into lots.

26
27 **5-04.3(9)C1 Mixture Nonstatistical Evaluation – Lots and Sublots**

28 A lot is represented by randomly selected samples of the same mix design that will be
29 tested for acceptance. A lot is defined as the total quantity of material or work produced
30 for each Job Mix Formula placed. Only one lot per JMF is expected. A subplot shall be
31 equal to one day's production or 800 tons, whichever is less except that the final subplot
32 will be a minimum of 400 tons and may be increased to 1200 tons.

33
34 All of the test results obtained from the acceptance samples from a given lot shall be
35 evaluated collectively. If the Contractor requests a change to the JMF that is approved,
36 the material produced after the change will be evaluated on the basis of the new JMF for
37 the remaining sublots in the current lot and for acceptance of subsequent lots. For a lot
38 in progress with a CPF less than 0.75, a new lot will begin at the Contractor's request
39 after the Engineer is satisfied that material conforming to the Specifications can be
40 produced.

41
42 Sampling and testing for evaluation shall be performed on the frequency of one sample
43 per subplot.

44
45 **5-04.3(9)C2 Mixture Nonstatistical Evaluation Sampling**

46 Samples for acceptance testing shall be obtained by the Contractor when ordered by the
47 Engineer. The Contractor shall sample the HMA mixture in the presence of the Engineer

1 and in accordance with AASH-TO T 168. A minimum of three samples should be taken
2 for each class of HMA placed on a project. If used in a structural application, at least one
3 of the three samples shall be tested.

4
5 Sampling and testing HMA in a structural application where quantities are less than 400
6 tons is at the discretion of the Engineer.

7
8 For HMA used in a structural application and with a total project quantity less than 800
9 tons but more than 400 tons, a minimum of one acceptance test shall be performed. In
10 all cases, a minimum of 3 samples will be obtained at the point of acceptance, a
11 minimum of one of the three samples will be tested for conformance to the JMF:

- 12
- 13 • If the test results are found to be within specification requirements, additional
14 testing will be at the Engineer’s discretion.
- 15
- 16 • If test results are found not to be within specification requirements, additional
17 testing of the remaining samples to determine a CPF shall be performed.
- 18

19 **5-04.3(9)C3 Mixture Nonstatistical Evaluation – Acceptance Testing**

20 Testing of HMA for compliance of V_a will at the option of the Contracting Agency. If
21 tested, compliance of V_a will use WSDOT SOP 731.

22
23 Testing for compliance of asphalt binder content will be by WSDOT FOP for AASHTO T
24 308.

25
26 Testing for compliance of gradation will be by FOP for WAQTC T 27/T 11.

27
28 **5-04.3(9)C4 Mixture Nonstatistical Evaluation – Pay Factors**

29 For each lot of material falling outside the tolerance limits in 5-04.3(9), the Contracting
30 Agency will determine a CPF using the following price adjustment factors:

31

Table of Price Adjustment Factors	
Constituent	Factor “ f ”
All aggregate passing: 1½", 1", ¾", ½", ⅜" and No.4 sieves	2
All aggregate passing No. 8 sieve	15
All aggregate passing No. 200 sieve	20
Asphalt binder	40
Air Voids (V_a) (where applicable)	20

32
33 Each lot of HMA produced under Nonstatistical Evaluation and having all constituents
34 falling within the tolerance limits of the job mix formula shall be accepted at the unit
35 Contract price with no further evaluation. When one or more constituents fall outside the

1 nonstatistical tolerance limits in the Job Mix Formula shown in Table of Price Adjustment
2 Factors, the lot shall be evaluated in accordance with Section 1-06.2 to determine the
3 appropriate CPF. The nonstatistical tolerance limits will be used in the calculation of the
4 CPF and the maximum CPF shall be 1.00. When less than three sublots exist, backup
5 samples of the existing sublots or samples from the Roadway shall be tested to provide
6 a minimum of three sets of results for evaluation.

7

8 **5-04.3(9)C5 Vacant**

9

10 **5-04.3(9)C6 Mixture Nonstatistical Evaluation – Price Adjustments**

11 For each lot of HMA mix produced under Nonstatistical Evaluation when the calculated
12 CPF is less than 1.00, a Nonconforming Mix Factor (NCMF) will be determined. The
13 NCMF equals the algebraic difference of CPF minus 1.00 multiplied by 60 percent. The
14 total job mix compliance price adjustment will be calculated as the product of the NCMF,
15 the quantity of HMA in the lot in tons, and the unit Contract price per ton of mix.

16

17 If a constituent is not measured in accordance with these Specifications, its individual
18 pay factor will be considered 1.00 in calculating the CPF.

19

20 **5-04.3(9)C7 Mixture Nonstatistical Evaluation - Retests**

21 The Contractor may request a subplot be retested. To request a retest, the Contractor
22 shall submit a written request within 7 calendar days after the specific test results have
23 been received. A split of the original acceptance sample will be retested. The split of the
24 sample will not be tested with the same tester that ran the original acceptance test. The
25 sample will be tested for a complete gradation analysis, asphalt binder content, and, at
26 the option of the agency, V_a . The results of the retest will be used for the acceptance of
27 the HMA in place of the original subplot sample test results. The cost of testing will be
28 deducted from any monies due or that may come due the Contractor under the Contract
29 at the rate of \$500 per sample.

30

31 **5-04.3 (9)D Mixture Acceptance – Commercial Evaluation**

32 If sampled and tested, HMA produced under Commercial Evaluation and having all
33 constituents falling within the tolerance limits of the job mix formula shall be accepted at
34 the unit Contract price with no further evaluation. When one or more constituents fall
35 outside the commercial tolerance limits in the Job Mix Formula shown in 5-04.3(9), the
36 lot shall be evaluated in accordance with Section 1-06.2 to determine the appropriate
37 CPF. The commercial tolerance limits will be used in the calculation of the CPF and the
38 maximum CPF shall be 1.00. When less than three sublots exist, backup samples of the
39 existing sublots or samples from the street shall be tested to provide a minimum of three
40 sets of results for evaluation.

41

42 For each lot of HMA mix produced and tested under Commercial Evaluation when the
43 calculated CPF is less than 1.00, a Nonconforming Mix Factor (NCMF) will be
44 determined. The NCMF equals the algebraic difference of CPF minus 1.00 multiplied by
45 60 percent. The Job Mix Compliance Price Adjustment will be calculated as the product
46 of the NCMF, the quantity of HMA in the lot in tons, and the unit Contract price per ton of
47 mix.

48

1 If a constituent is not measured in accordance with these Specifications, its individual
2 pay factor will be considered 1.00 in calculating the CPF.

3

4 **5-04.3(10) HMA Compaction Acceptance**

5 HMA mixture accepted by nonstatistical evaluation that is used in traffic lanes, including
6 lanes for intersections, ramps, truck climbing, weaving, and speed change, and having a
7 specified compacted course thickness greater than 0.10-foot, shall be compacted to a
8 specified level of relative density. The specified level of relative density shall be a CPF of
9 not less than 0.75 when evaluated in accordance with Section 1-06.2, using a LSL of
10 92.0 (minimum of 92 percent of the maximum density). The maximum density shall be
11 determined by WSDOT FOP for AASHTO T 729. The specified level of density attained
12 will be determined by the evaluation of the density of the pavement. The density of the
13 pavement shall be determined in accordance with WSDOT FOP for WAQTC TM 8,
14 except that gauge correlation will be at the discretion of the Engineer, when using the
15 nuclear density gauge and WSDOT SOP 736 when using cores to determine density.

16

17 Tests for the determination of the pavement density will be taken in accordance with the
18 required procedures for measurement by a nuclear density gauge or Roadway cores
19 after completion of the finish rolling.

20

21 If the Contracting Agency uses a nuclear density gauge to determine density the test
22 procedures FOP for WAQTC TM 8 and WSDOT SOP T 729 will be used on the day the
23 mix is placed and prior to opening to traffic.

24

25 Roadway cores for density may be obtained by either the Contracting Agency or the
26 Contractor in accordance with WSDOT SOP 734. The core diameter shall be 4-inches
27 minimum, unless otherwise approved by the Engineer. Roadway cores will be tested by
28 the Contracting Agency in accordance with WSDOT FOP for AASHTO T 166.

29

30 If the Contract includes the Bid item "Roadway Core", the cores shall be obtained by the
31 Contractor in the presence of the Engineer on the same day the mix is placed and at
32 locations designated by the Engineer. If the Contract does not include the Bid item
33 "Roadway Core", the Contracting Agency will obtain the cores.

34

35 For a lot in progress with a CPF less than 0.75, a new lot will begin at the Contractor's
36 request after the Engineer is satisfied that material conforming to the Specifications can
37 be produced.

38

39 HMA mixture accepted by commercial evaluation and HMA constructed under conditions
40 other than those listed above shall be compacted on the basis of a test point evaluation
41 of the compaction train. The test point evaluation shall be performed in accordance with
42 instructions from the Engineer. The number of passes with an approved compaction
43 train, required to attain the maximum test point density, shall be used on all subsequent
44 paving.

45

46 HMA for preleveling shall be thoroughly compacted. HMA that is used for preleveling
47 wheel rutting shall be compacted with a pneumatic tire roller unless otherwise approved
48 by the Engineer.

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Test Results

For a subplot that has been tested with a nuclear density gauge that did not meet the minimum of 92 percent of the reference maximum density in a compaction lot with a CPF below 1.00 and thus subject to a price reduction or rejection, the Contractor may request that a core be used for determination of the relative density of the subplot. The relative density of the core will replace the relative density determined by the nuclear density gauge for the subplot and will be used for calculation of the CPF and acceptance of HMA compaction lot.

When cores are taken by the Contracting Agency at the request of the Contractor, they shall be requested by noon of the next workday after the test results for the subplot have been provided or made available to the Contractor. Core locations shall be outside of wheel paths and as determined by the Engineer. Traffic control shall be provided by the Contractor as requested by the Engineer. Failure by the Contractor to provide the requested traffic control will result in forfeiture of the request for cores. When the CPF for the lot based on the results of the HMA cores is less than 1.00, the cost for the coring will be deducted from any monies due or that may become due the Contractor under the Contract at the rate of \$200 per core and the Contractor shall pay for the cost of the traffic control.

5-04.3(10)A HMA Compaction – General Compaction Requirements

Compaction shall take place when the mixture is in the proper condition so that no undue displacement, cracking, or shoving occurs. Areas inaccessible to large compaction equipment shall be compacted by other mechanical means. Any HMA that becomes loose, broken, contaminated, shows an excess or deficiency of asphalt, or is in any way defective, shall be removed and replaced with new hot mix that shall be immediately compacted to conform to the surrounding area.

The type of rollers to be used and their relative position in the compaction sequence shall generally be the Contractor’s option, provided the specified densities are attained. Unless the Engineer has approved otherwise, rollers shall only be operated in the static mode when the internal temperature of the mix is less than 175°F. Regardless of mix temperature, a roller shall not be operated in a mode that results in checking or cracking of the mat. Rollers shall only be operated in static mode on bridge decks.

5-04.3(10)B HMA Compaction - Cyclic Density

Low cyclic density areas are defined as spots or streaks in the pavement that are less than 90 percent of the theoretical maximum density. At the Engineer’s discretion, the Engineer may evaluate the HMA pavement for low cyclic density, and when doing so will follow WSDOT SOP 733. A \$500 Cyclic Density Price Adjustment will be assessed for any 500-foot section with two or more density readings below 90 percent of the theoretical maximum density.

5-04.3(10)C Vacant

5-04.3(10)D HMA Nonstatistical Compaction

1 **5-04.3(10)D1 HMA Nonstatistical Compaction - Lots and Sublots**

2 HMA compaction which is accepted by nonstatistical evaluation will be based on
3 acceptance testing performed by the Contracting Agency dividing the project into
4 compaction lots.

5

6 A lot is represented by randomly selected samples of the same mix design that will be
7 tested for acceptance. A lot is defined as the total quantity of material or work produced
8 for each Job Mix Formula placed. Only one lot per JMF is expected. A subplot shall be
9 equal to one day's production or 400 tons, whichever is less except that the final subplot
10 will be a minimum of 200 tons and may be increased to 800 tons. Testing for compaction
11 will be at the rate of 5 tests per subplot per WSDOT T 738.

12

13 The subplot locations within each density lot will be determined by the Engineer. For a lot
14 in progress with a CPF less than 0.75, a new lot will begin at the Contractor's request
15 after the Engineer is satisfied that material conforming to the Specifications can be
16 produced.

17

18 HMA mixture accepted by commercial evaluation and HMA constructed under conditions
19 other than those listed above shall be compacted on the basis of a test point evaluation
20 of the compaction train. The test point evaluation shall be performed in accordance with
21 instructions from the Engineer. The number of passes with an approved compaction
22 train, required to attain the maximum test point density, shall be used on all subsequent
23 paving.

24

25 HMA for preleveling shall be thoroughly compacted. HMA that is used to prelevel wheel
26 ruts shall be compacted with a pneumatic tire roller unless otherwise approved by the
27 Engineer.

28

29 **5-04.3(10)D2 HMA Compaction Nonstatistical Evaluation – Acceptance Testing**

30 The location of the HMA compaction acceptance tests will be randomly selected by the
31 Engineer from within each subplot, with one test per subplot.

32

33 **5-04.3(10)D3 HMA Nonstatistical Compaction – Price Adjustments**

34 For each compaction lot with one or two sublots, having all sublots attain a relative
35 density that is 92 percent of the reference maximum density the HMA shall be accepted
36 at the unit Contract price with no further evaluation. When a subplot does not attain a
37 relative density that is 92 percent of the reference maximum density, the lot shall be
38 evaluated in accordance with Section 1-06.2 to determine the appropriate CPF. The
39 maximum CPF shall be 1.00, however, lots with a calculated CPF in excess of 1.00 will
40 be used to offset lots with CPF values below 1.00 but greater than 0.90. Lots with CPF
41 lower than 0.90 will be evaluated for compliance per 5-04.3(11). Additional testing by
42 either a nuclear moisture-density gauge or cores will be completed as required to provide
43 a minimum of three tests for evaluation.

44

45 For compaction below the required 92%, a Non-Conforming Compaction Factor (NCCF)
46 will be determined. The NCCF equals the algebraic difference of CPF minus 1.00
47 multiplied by 40 percent. The Compaction Price Adjustment will be calculated as the

1 product of CPF, the quantity of HMA in the compaction control lot in tons, and the unit
2 Contract price per ton of mix.

3

4 **5-04.3(11) Reject Work**

5

6 **5-04.3(11)A Reject Work General**

7 Work that is defective or does not conform to Contract requirements shall be rejected.
8 The Contractor may propose, in writing, alternatives to removal and replacement of
9 rejected material. Acceptability of such alternative proposals will be determined at the
10 sole discretion of the Engineer. HMA that has been rejected is subject to the
11 requirements in Section 1-06.2(2) and this specification, and the Contractor shall submit
12 a corrective action proposal to the Engineer for approval.

13

14 **5-04.3(11)B Rejection by Contractor**

15 The Contractor may, prior to sampling, elect to remove any defective material and
16 replace it with new material. Any such new material will be sampled, tested, and
17 evaluated for acceptance.

18

19 **5-04.3(11)C Rejection Without Testing (Mixture or Compaction)**

20 The Engineer may, without sampling, reject any batch, load, or section of Roadway that
21 appears defective. Material rejected before placement shall not be incorporated into the
22 pavement. Any rejected section of Roadway shall be removed.

23

24 No payment will be made for the rejected materials or the removal of the materials
25 unless the Contractor requests that the rejected material be tested. If the Contractor
26 elects to have the rejected material tested, a minimum of three representative samples
27 will be obtained and tested. Acceptance of rejected material will be based on
28 conformance with the nonstatistical acceptance Specification. If the CPF for the rejected
29 material is less than 0.75, no payment will be made for the rejected material; in addition,
30 the cost of sampling and testing shall be borne by the Contractor. If the CPF is greater
31 than or equal to 0.75, the cost of sampling and testing will be borne by the Contracting
32 Agency. If the material is rejected before placement and the CPF is greater than or equal
33 to 0.75, compensation for the rejected material will be at a CPF of 0.75. If rejection
34 occurs after placement and the CPF is greater than or equal to 0.75, compensation for
35 the rejected material will be at the calculated CPF with an addition of 25 percent of the
36 unit Contract price added for the cost of removal and disposal.

37

38 **5-04.3(11)D Rejection - A Partial Sublot**

39 In addition to the random acceptance sampling and testing, the Engineer may also
40 isolate from a normal sublot any material that is suspected of being defective in relative
41 density, gradation or asphalt binder content. Such isolated material will not include an
42 original sample location. A minimum of three random samples of the suspect material will
43 be obtained and tested. The material will then be statistically evaluated as an
44 independent lot in accordance with Section 1-06.2(2).

45

46 **5-04.3(11)E Rejection - An Entire Sublot**

47 An entire sublot that is suspected of being defective may be rejected. When a sublot is
48 rejected a minimum of two additional random samples from this sublot will be obtained.

1 These additional samples and the original subplot will be evaluated as an independent lot
2 in accordance with Section 1-06.2(2).

3

4 **5-04.3(11)F Rejection - A Lot in Progress**

5 The Contractor shall shut down operations and shall not resume HMA placement until
6 such time as the Engineer is satisfied that material conforming to the Specifications can
7 be produced:

8

- 9 1. When the CPF of a lot in progress drops below 1.00 and the Contractor is taking
10 no corrective action, or
11 2. When the Pay Factor (PF) for any constituent of a lot in progress drops below
12 0.95 and the Contractor is taking no corrective action, or
13 3. When either the PF for any constituent or the CPF of a lot in progress is less than
14 0.75.

15

16 **5-04.3(11)G Rejection - An Entire Lot (Mixture or Compaction)**

17 An entire lot with a CPF of less than 0.75 will be rejected.

18

19 **5-04.3(12) Joints**

20

21 **5-04.3(12)A HMA Joints**

22

23 **5-04.3(12)A1 Transverse Joints**

24 The Contractor shall conduct operations such that the placing of the top or wearing
25 course is a continuous operation or as close to continuous as possible. Unscheduled
26 transverse joints will be allowed, and the roller may pass over the unprotected end of the
27 freshly laid mixture only when the placement of the course must be discontinued for such
28 a length of time that the mixture will cool below compaction temperature. When the Work
29 is resumed, the previously compacted mixture shall be cut back to produce a slightly
30 beveled edge for the full thickness of the course.

31

32 A temporary wedge of HMA constructed on a 20H:1V shall be constructed where a
33 transverse joint as a result of paving or planing is open to traffic. The HMA in the
34 temporary wedge shall be separated from the permanent HMA by strips of heavy
35 wrapping paper or other methods approved by the Engineer. The wrapping paper shall
36 be removed and the joint trimmed to a slightly beveled edge for the full thickness of the
37 course prior to resumption of paving.

38

39 The material that is cut away shall be wasted and new mix shall be laid against the cut.
40 Rollers or tamping irons shall be used to seal the joint.

41

42 **5-04.3(12)A2 Longitudinal Joints**

43 The longitudinal joint in any one course shall be offset from the course immediately
44 below by not more than 6 inches nor less than 2 inches. All longitudinal joints
45 constructed in the wearing course shall be located at a lane line or an edge line of the
46 Traveled Way. A notched wedge joint shall be constructed along all longitudinal joints in

1 the wearing surface of new HMA unless otherwise approved by the Engineer. The
2 notched wedge joint shall have a vertical edge of not less than the maximum aggregate
3 size or more than 1/2 of the compacted lift thickness and then taper down on a slope not
4 steeper than 4H:1V. The sloped portion of the HMA notched wedge joint shall be
5 uniformly compacted.

6

7 **5-04.3(12)B Bridge Paving Joint Seals**

8 Bridge Paving Joint Seals shall be in accordance with Section 5-03.

9

10 **5-04.3(13) Surface Smoothness**

11 The completed surface of all courses shall be of uniform texture, smooth, uniform as to
12 crown and grade, and free from defects of all kinds. The completed surface of the
13 wearing course shall not vary more than 1/8 inch from the lower edge of a 10-foot
14 straightedge placed on the surface parallel to the centerline. The transverse slope of the
15 completed surface of the wearing course shall vary not more than 1/4 inch in 10 feet from
16 the rate of transverse slope shown in the Plans.

17

18 When deviations in excess of the above tolerances are found that result from a high
19 place in the HMA, the pavement surface shall be corrected by one of the
20 following methods:

21

- 22 1. Removal of material from high places by grinding with an approved grinding
23 machine, or
- 24 2. Removal and replacement of the wearing course of HMA, or
- 25 3. By other method approved by the Engineer.

26

27 Correction of defects shall be carried out until there are no deviations anywhere greater
28 than the allowable tolerances.

29

30 Deviations in excess of the above tolerances that result from a low place in the HMA and
31 deviations resulting from a high place where corrective action, in the opinion of the
32 Engineer, will not produce satisfactory results will be accepted with a price adjustment.
33 The Engineer shall deduct from monies due or that may become due to the Contractor
34 the sum of \$500.00 for each and every section of single traffic lane 100 feet in length in
35 which any excessive deviations described above are found.

36

37 When utility appurtenances such as manhole covers and valve boxes are located in the
38 traveled way, the utility appurtenances shall be adjusted to the finished grade prior to
39 paving. This requirement may be waived when requested by the Contractor, at the
40 discretion of the Engineer or when the adjustment details provided in the project plan or
41 specifications call for utility appurtenance adjustments after the completion of paving.

42

43 Utility appurtenance adjustment discussions will be included in the Pre-Paving and Pre-
44 Planing Briefing (5-04.3(14)B3). Submit a written request to waive this requirement to the
45 Engineer prior to the start of paving.

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5-04.3(14) Planing Bituminous Pavement

The planing plan must be approved by the Engineer and a pre-planing meeting must be held prior to the start of any planing. See Section 5-04.3(14)B2 for information on planing submittals.

Where planing an existing pavement is specified in the Contract, the Contractor must remove existing surfacing material and to reshape the surface to remove irregularities. The finished product must be a prepared surface acceptable for receiving an HMA overlay.

Use the cold milling method for planing unless otherwise specified in the Contract. Do not use the planer on the final wearing course of new HMA.

Conduct planing operations in a manner that does not tear, break, burn, or otherwise damage the surface which is to remain. The finished planed surface must be slightly grooved or roughened and must be free from gouges, deep grooves, ridges, or other imperfections. The Contractor must repair any damage to the surface by the Contractor's planing equipment, using an Engineer approved method.

Repair or replace any metal castings and other surface improvements damaged by planing, as determined by the Engineer.

A tapered wedge cut must be planed longitudinally along curb lines sufficient to provide a minimum of 4 inches of curb reveal after placement and compaction of the final wearing course. The dimensions of the wedge must be as shown on the Drawings or as specified by the Engineer.

A tapered wedge cut must also be made at transitions to adjoining pavement surfaces (meet lines) where butt joints are shown on the Drawings. Cut butt joints in a straight line with vertical faces 2 inches or more in height, producing a smooth transition to the existing adjoining pavement.

After planing is complete, planed surfaces must be swept, cleaned, and if required by the Contract, patched and preleveled.

The Engineer may direct additional depth planing. Before performing this additional depth planing, the Contractor must conduct a hidden metal in pavement detection survey as specified in Section 5-04.3(14)A.

5-04.3(14)A Pre-Planing Metal Detection Check

Before starting planing of pavements, and before any additional depth planing required by the Engineer, the Contractor must conduct a physical survey of existing pavement to be planed with equipment that can identify hidden metal objects.

Should such metal be identified, promptly notify the Engineer.

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See Section 1-07.16(1) regarding the protection of survey monumentation that may be hidden in pavement.

The Contractor is solely responsible for any damage to equipment resulting from the Contractor's failure to conduct a pre-planing metal detection survey, or from the Contractor's failure to notify the Engineer of any hidden metal that is detected.

5-04.3(14)B Paving and Planing Under Traffic

5-04.3(14)B1 General

In addition, the requirements of Section 1-07.23 and the traffic controls required in Section 1-10, and unless the Contract specifies otherwise or the Engineer approves, the Contractor must comply with the following:

- 1. Intersections:
 - a. Keep intersections open to traffic at all times, except when paving or planing operations through an intersection requires closure. Such closure must be kept to the minimum time required to place and compact the HMA mixture, or plane as appropriate. For paving, schedule such closure to individual lanes or portions thereof that allows the traffic volumes and schedule of traffic volumes required in the approved traffic control plan. Schedule work so that adjacent intersections are not impacted at the same time and comply with the traffic control restrictions required by the Traffic Engineer. Each individual intersection closure or partial closure must be addressed in the traffic control plan, which must be submitted to and accepted by the Engineer, see Section 1-10.2(2).
 - b. When planing or paving and related construction must occur in an intersection, consider scheduling and sequencing such work into quarters of the intersection, or half or more of an intersection with side street detours. Be prepared to sequence the work to individual lanes or portions thereof.
 - c. Should closure of the intersection in its entirety be necessary, and no trolley service is impacted, keep such closure to the minimum time required to place and compact the HMA mixture, plane, remove asphalt, tack coat, and as needed.
 - d. Any work in an intersection requires advance warning in both signage and a number of Working Days advance notice as determined by the Engineer, to alert traffic and emergency services of the intersection closure or partial closure.
 - e. Allow new compacted HMA asphalt to cool to ambient temperature before any traffic is allowed on it. Traffic is not allowed on newly placed asphalt until approval has been obtained from the Engineer.

- 1 2. Temporary centerline marking, post-paving temporary marking, temporary stop
- 2 bars, and maintaining temporary pavement marking must comply with Section
- 3 8-23.
- 4
- 5 3. Permanent pavement marking must comply with Section 8-22.
- 6

7 **5-04.3(14)B2 Submittals - Planing Plan and HMA Paving Plan**

8 The Contractor must submit a separate planing plan and a separate paving plan to the

9 Engineer at least 5 Working Days in advance of each operation's activity start date.

10 These plans must show how the moving operation and traffic control are coordinated, as

11 they will be discussed at the pre-planing briefing and pre-paving briefing. When

12 requested by the Engineer, the Contractor must provide each operation's traffic control

13 plan on 24 x 36 inch or larger size Shop Drawings with a scale showing both the area of

14 operation and sufficient detail of traffic beyond the area of operation where detour traffic

15 may be required. The scale on the Shop Drawings is 1 inch = 20 feet, which may be

16 changed if the Engineer agrees sufficient detail is shown.

17

18 The planing operation and the paving operation include, but are not limited to, metal

19 detection, removal of asphalt and temporary asphalt of any kind, tack coat and drying,

20 staging of supply trucks, paving trains, rolling, scheduling, and as may be discussed at

21 the briefing.

22

23 When intersections will be partially or totally blocked, provide adequately sized and

24 noticeable signage alerting traffic of closures to come, a minimum 2 Working Days in

25 advance. The traffic control plan must show where police officers will be stationed when

26 signalization is or may be, countermanded, and show areas where flaggers are

27 proposed.

28

29 At a minimum, the planing and the paving plan must include:

30

- 31 1. A copy of the accepted traffic control plan, see Section 1-10.2(2), detailing each
- 32 day's traffic control as it relates to the specific requirements of that day's planing
- 33 and paving. Briefly describe the sequencing of traffic control consistent with the
- 34 proposed planing and paving sequence, and scheduling of placement of
- 35 temporary pavement markings and channelizing devices after each day's planing,
- 36 and paving.
- 37
- 38 2. A copy of each intersection's traffic control plan.
- 39
- 40 3. Haul routes from supplier facilities, and locations of temporary parking and
- 41 staging areas, including return routes. Describe the complete round trip as it
- 42 relates to the sequencing of paving operations.
- 43
- 44 4. Names and locations of HMA supplier facilities to be used.
- 45
- 46 5. List of all equipment to be used for paving.
- 47

- 1 6. List of personnel and associated job classification assigned to each piece of
2 paving equipment.
- 3
- 4 7. Description (geometric or narrative) of the scheduled sequence of planing and of
5 paving and intended area of planing and of paving for each day's work, must
6 include the directions of proposed planing and of proposed paving, sequence of
7 adjacent lane paving, sequence of skipped lane paving, intersection planing and
8 paving scheduling and sequencing, and proposed notifications and coordinations
9 to be timely made. The plan must show HMA joints relative to the final pavement
10 marking lane lines.
- 11
- 12 8. Names, job titles, and contact information for field, office, and plant supervisory
13 personnel.
- 14
- 15 9. A copy of the approved Mix Designs.
- 16
- 17 10. Tonnage of HMA to be placed each day.
- 18
- 19 11. Approximate times and days for starting and ending daily operations.
- 20

21 **5-04.3(14)B3 Pre-Paving and Pre-Planing Briefing**

22 At least 2 Working Days before the first paving operation and the first planing operation,
23 or as scheduled by the Engineer for future paving and planing operations to ensure the
24 Contractor has adequately prepared for notifying and coordinating as required in the
25 Contract, the Contractor must be prepared to discuss that day's operations as they relate
26 to other entities and to public safety and convenience, including driveway and business
27 access, garbage truck operations, transit operations and working around energized
28 overhead wires, school and nursing home and hospital and other accesses, other
29 Contractors who may be operating in the area, pedestrian and bicycle traffic, and
30 emergency services. The Contractor, and Subcontractors that may be part of that day's
31 operations, must meet with the Engineer and discuss the proposed operation as it
32 relates to the submitted planing plan and paving plan, approved traffic control plan, and
33 public convenience and safety. Such discussion includes, but is not limited to:

- 34
- 35 1. General for both the Paving and Planing:
 - 36
 - 37 a. The actual times of starting and ending daily operations.
 - 38
 - 39 b. In intersections, how to break up the intersection, and address traffic control
40 and signalization for that operation, including use of peace officers.
 - 41
 - 42 c. The sequencing and scheduling of paving operations and of planing operations,
43 as applicable, as it relates to traffic control, public convenience and safety, and
44 other Contractors who may operate in the Project limits.
 - 45
 - 46 d. Notifications required of Contractor activities and coordinating with other entities
47 and the public as necessary.

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- e. Description of the sequencing of installation and types of temporary pavement markings as it relates to planning and paving.
 - f. Description of the sequencing of installation of, and the removal of, temporary pavement patch material around exposed castings and as may be needed.
 - g. Description of procedures and equipment to identify hidden metal in the pavement, such as survey monumentation, monitoring wells, streetcar rail, and castings, before planing as per Section 5-04.3(14)B2.
 - h. Description of how flaggers will be coordinated with the planing, paving, and related operations.
 - i. Description of sequencing of traffic controls for the process of rigid pavement base repairs.
 - j. Other items the Engineer deems necessary to address.
2. Paving – additional topics:
- a. When to start applying tack and coordinating with paving.
 - b. Types of equipment and numbers of each type of equipment to be used. If more pieces of equipment than personnel are proposed, describe the sequencing of the personnel operating the types of equipment. Discuss the continuance of operator personnel for each type of equipment as it relates to meeting Specification requirements.
 - c. Number of JMFs to be placed, and if more than one JMF is used, how the Contractor will ensure different JMFs are distinguished, how pavers and how MTVs are distinguished, and how pavers and MTVs are cleaned so that one JMF does not adversely influence the other JMF.
 - d. Description of contingency plans for that day’s operations such as equipment breakdown, rain out, and supplier shutdown of operations.
 - e. Number of sublots to be placed, sequencing of density testing, and other sampling and testing.

5-04.3(15) Sealing Pavement Surfaces

Apply a fog seal where shown in the plans. Construct the fog seal in accordance with Section 5-02.3. Unless otherwise approved by the Engineer, apply the fog seal prior to opening to traffic.

5-04.3(16) HMA Road Approaches

1 Construct HMA approaches at the locations shown in the Plans or where staked by the
2 Engineer, in accordance with Section 5-04.

3

4 **5-04.4 Measurement**

5 HMA Cl. ___ PG ___, HMA for ___ Cl. ___ PG ___, and Commercial HMA will
6 be measured by the ton in accordance with Section 1-09.2, with no deduction being
7 made for the weight of asphalt binder, mineral filler, or any other component of the
8 mixture. If the Contractor elects to remove and replace mix as allowed by Section 5-
9 04.3(11), the material removed will not be measured.

10

11 Roadway cores will be measured per each for the number of cores taken.

12

13 Pavement repair excavation will be measured by the square yard of surface marked prior
14 to excavation.

15

16 Planing bituminous pavement will be measured by the square yard.

17

18 **5-04.5 Payment**

19 Payment will be made for each of the following Bid items that are included in the
20 Proposal:

21

22 "HMA Cl. ___ PG ___", per ton.

23

24 "HMA for Approach Cl. ___ PG ___", per ton.

25

26 "HMA for Preleveling Cl. ___ PG ___", per ton.

27

28 "HMA for Pavement Repair Cl. ___ PG ___", per ton.

29

30 "Commercial HMA", per ton.

31

32 The unit Contract price per ton for "HMA Cl. ___ PG ___", "HMA for Approach Cl.
33 ___ PG ___", "HMA for Preleveling Cl. ___ PG ___", "HMA for Pavement Repair Cl.
34 ___ PG ___", and "Commercial HMA" shall be full compensation for all costs,
35 including anti-stripping additive, incurred to carry out the requirements of Section 5-
36 04 except for those costs included in other items which are included in this
37 Subsection and which are included in the Proposal.

38

39

40 "Pavement Repair Excavation Incl. Haul", per square yard.

41

42 The unit Contract price per square yard for "Pavement Repair Excavation Incl. Haul"
43 shall be full payment for all costs incurred to perform the Work described in Section
44 5-04.3(4) with the exception, however, that all costs involved in the placement of

1 HMA shall be included in the unit Contract price per ton for “HMA for Pavement
2 Repair Cl. ___ PG ___”, per ton.
3
4 “Asphalt for Prime Coat”, per ton.
5
6 The unit Contract price per ton for “Asphalt for Prime Coat” shall be full payment for
7 all costs incurred to obtain, provide and install the material in accordance with
8 Section 5-04.3(4).
9
10 “Prime Coat Agg.”, per cubic yard, or per ton.
11
12 The unit Contract price per cubic yard or per ton for “Prime Coat Agg.” shall be full
13 pay for furnishing, loading, and hauling aggregate to the place of deposit and
14 spreading the aggregate in the quantities required by the Engineer.
15
16 “Planing Bituminous Pavement”, per square yard.
17
18 The unit Contract price per square yard for “Planing Bituminous Pavement” shall be
19 full payment for all costs incurred to perform the Work described in Section 5-
20 04.3(14).
21
22 “Job Mix Compliance Price Adjustment”, by calculation.
23
24 “Job Mix Compliance Price Adjustment” will be calculated and paid for as described
25 in Section 5-04.3(9)C6.
26
27 “Compaction Price Adjustment”, by calculation.
28
29 “Compaction Price Adjustment” will be calculated and paid for as described in
30 Section 5-04.3(10)D3.
31
32 “Roadway Core”, per each.
33
34 The Contractor’s costs for all Work associated with the coring (e.g., traffic control)
35 shall be incidental and included in the unit Bid price per each.
36
37 “Cyclic Density Price Adjustment”, by calculation.
38
39 “Cyclic Density Price Adjustment” will be calculated and paid for as described in
40 Section 5-04.3(10)B.
41

42 **Division 7**
43 **Drainage Structures, Storm Sewers, Sanitary**
44 **Sewers, Water Mains, and Conduits**
45

1 **7-04 Storm Sewers**

2

3 **7-04.2 Materials**

4

5 (*****)

6 Section 7-04.2 is supplemented with the following:

7

8 HDPE used for storm sewer pipe shall be dual wall N-12 pipe or approved equal.

9

10 **7-04.3 Construction Requirements**

11

12 (*****)

13 Section 7-04.3 is supplemented with the following:

14

15 Tracer wire and warning tape shall be installed above all stormwater pipe with
16 waterproof splices where necessary. Tracer wire shall be 10-gauge or thicker
17 insulated copper wire.

18

19 Warning tape shall be installed above all stormwater mains and shall be metallic
20 tape, brightly colored, 2 inch minimum width, imprinted in 1 inch letters with "Caution
21 Buried Storm Line" repeated at not less than four foot intervals. Warning tape shall
22 be installed approximately 18 inches below the finished grade.

23

24 If the trench soil is unsuitable for trench backfill, as determined by the Inspector, the
25 Contractor shall remove and dispose of unsuitable material and backfill the trench
26 with gravel borrow in accordance with Section 9-03.14(1). Gravel borrow used to
27 replace unsuitable trench backfill will be paid only on an as needed basis, and will not
28 be subject to Section 1-04.4 regarding Changes.

29

30 **7-04.5 Payment**

31

32 (*****)

33 The payment statement for all pipes listed in the first paragraph of Section 7-04.5 is revised
34 to read:

35

36 The unit Contract price per linear foot for storm sewer pipe of the kind and size specified
37 shall be full pay for all Work to complete the installation, including potholing, tracer wire,
38 warning tape and adjustments of inverts to manholes.

39

40

41

42 **7-05 Manholes, Inlets, Catch Basins, and Drywells**

43

44 **7-05.3 Construction Requirements**

45

46 (*****)

47 Section 7-05.3 is supplemented with the following:

48

49 Pre-cast manhole sections to be joint shall be inspected carefully. Sections with chips or
50 cracks in the tongue or groove shall not be used. Ends shall be cleaned of all foreign

1 material. Joints shall be made in strict accordance with the manufacturer's
2 recommendations.
3
4 Grade rings shall be installed to conform to City of Port Orchard Standard Detail 922. Lay
5 grade rings in mortar with sides plumb and top level. Joints shall be sealed with mortar.
6
7 Construct manhole inverts in conformance with detail shown on City of Port Orchard
8 Standard Detail 922, with smooth transitions to ensure an unobstructed flow through the
9 manhole. Remove all sharp edges or rough sections which tend to obstruct flow.
10 Channeling shall be to the springline of the sewer or above. Benches shall be sloped from
11 the manhole toward the channel to prevent the accumulation of solids.
12
13 Completed manhole shall be straight, plumb, and the joints shall be watertight. All interior
14 joints shall be coated with a fast setting, quick drying mortar prior to backfill.
15
16 Prior to connecting to existing manholes, a proposed connection method shall be
17 submitted to the City Engineer for approval.
18
19 Flows shall be maintained through the manhole during construction without interruption
20 using an approved method.
21
22 Excavation shall be completely around the existing manhole to avoid unbalanced loading
23 of the manhole. All damage shall be repaired. Existing invert elevations shall be verified
24 prior to constructing the new line.
25
26 Connections to existing manholes shall be core drilled. Any discrepancies shall be
27 reported to the City Engineer. Existing manhole base shall be rechanneled after
28 connection.
29

30
31 **7-05.3(4) Drop Manhole Connection**

32
33 (*****)

34 Section 7-05.3(4) is revised to read:

35
36 Drop manhole connections shall be constructed in accordance with the Plans. Where
37 ductile iron pipe is used for the inside drop, one length of ductile iron pipe shall be provided
38 outside the manhole.
39

40 When ductile iron pipe is used for a drop manhole connection, the fittings shall be the
41 mechanical joint type, except where flanged fittings are shown on City of Port Orchard
42 Standard Details 925-927.
43

44 Locking solid metal cover for catch basin will be measured per each.
45

46
47 **7-05.5 Payment**

48
49 (*****)

50 The last paragraph of Section 7-05.5 is revised to read:

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The unit Contract price per each for “Drop Manhole Connection” shall be full pay for all Work to furnish and install the connection of the sewer main to the sanitary sewer manhole, including but not limited to, excavation, bedding, compaction, connection of pipes and fittings, rechanneling existing manhole, liner installation, backfilling, and all costs for covers, frames, manhole rings, flat slab tops, risers, interior pipe, fittings, and appurtenances.

The price paid per drop connection is in addition to the price paid for manholes and for the specified sewer pipe that is replaced with ductile iron pipe.

(*****)

Section 7-05.5 is supplemented with the following:

“Locking Solid Metal Cover for Catch Basin”, per each.

The unit Contract price per each for “Locking Solid Metal Cover for Catch Basin” shall be full pay for all costs necessary to furnish and install the locking solid metal cover.

7-09 Water Mains

7-09.3 Construction Requirements

(*****)

Section 7-09.3 is supplemented with the following:

Existing water mains identified on the Drawings to be abandoned in place and filled shall be filled with a pumpable, flowable cement slurry completely filling the pipe. All CDF used for abandoning pipe shall meet the requirements in Section 2-09.3(1)E.

The Contractor shall submit a Pipe Abandonment Plan in accordance with Section 1-05.3 describing the proposed methods for filling pipes with CDF, specifically addressing how the pipes will be filled in a manner that will prevent air pockets from being left in the abandoned pipe.

CDF can be proportioned to be flowable, nonsegregating, or excavatable by hand or machine. Desired flowability can be achieved with the following guidelines:

Low Flowability	below 6-inch slump
Normal Flowability	6- to 8-inch slump
High Flowability	8-inch slump or greater

CDF shall be placed by any reasonable means into the area to be filled. CDF for pipe abandonment shall be placed in a manner that ensures the complete pipe or piping structure is filled and no void spaces remain.

CDF mixing and placing may be started if weather conditions are favorable, when the temperature is 34 degrees F and rising. At the time of placement, CDF must have a temperature of at least 40 degrees F. Mixing and placing shall stop when

1 temperature is 38 degrees F or less and falling. Each filling stage shall be as
2 continuous an operation as is practicable.
3
4 Mechanical joint plug, cap, or blind flange shall be installed on both ends of pipe to
5 be abandoned.
6
7 Tracer wire and warning tape shall be installed above all water mains with waterproof
8 splices where necessary. Tracer wire shall be 10-gauge or thicker insulated copper
9 wire and shall be connected to all valves. Locating wire shall also connect to all
10 service lines and meters.
11
12 Warning tape shall be installed above all water mains and shall be metallic tape, blue
13 colored, 2 inch minimum width, imprinted in 1 inch letters with "Caution Buried Water
14 Line" repeated at not less than four foot intervals. Warning tape shall be installed
15 approximately 18 inches below the finished grade.
16

17 **7-09.3(10) Backfilling Trenches**

18
19 (*****)
20 Section 7-09.3(10) is supplemented with the following:
21

22 If the trench soil is unsuitable for trench backfill, as determined by the Inspector, the
23 Contractor shall remove and dispose of unsuitable material and backfill the trench
24 with gravel borrow in accordance with Section 9-03.14(1). Gravel borrow used to
25 replace unsuitable trench backfill will be paid only on an as needed basis, and will not
26 be subject to Section 1-04.4 regarding Changes.
27

28
29 **7-09.3(21) Concrete Thrust Blocking**

30
31 (*****)
32 Section 7-09.3(21) is supplemented with the following:
33

34 Thrust blocking shall comply with the provisions of City of Port Orchard Standard
35 Detail 803. All fittings which may come in contact with poured thrust blocks shall be
36 wrapped with 8 mil thick plastic sheet. Form thrust blocking so that bolts, joints,
37 gaskets, and flanges of adjacent joints are clear of concrete and so that bolts and
38 joints can be dismantled without removing concrete.
39

40
41 **7-09.4 Measurement**

42
43 (*****)
44 Section 7-09.4 is supplemented with the following:
45 "Abandon Existing Water Main" will be measured by the linear foot of existing water main
46 pipe that is abandoned and filled with CDF or grout.
47

48
49 **7-09.5 Payment**
50

1 (*****)
2 Section 7-09.5 is supplemented with the following:

3
4 Payment will be made for the following Bid item when it is included in the Proposal:

5
6 “Abandon Existing Water Main”, per linear foot.
7 The unit Contract price per linear foot for “Abandon Existing Water Main” shall be full pay
8 for all Work required to abandon existing water mains in place, including but not limited
9 to potholing, excavation, furnishing flowable backfill, cutting, capping, complete filling
10 with approved flowable backfill of water mains to be abandoned, backfilling, compacting,
11 and any other items necessary to abandon the water main not indicated as being
12 covered under other specific bid items.

13
14 (*****)
15 The payment statement for “_____ Pipe for Water Main _____ In. Diam.” in Section
16 7-09.5 is revised to read:

17
18 The unit Contract price per linear foot for each size and kind of “_____ Pipe for Water
19 Main _____ In. Diam.” Shall be full pay for all Work to complete the installation of the
20 water main including but not limited to, potholing, trench excavation, bedding, laying and
21 jointing pipe and fittings, tracer wire, warning tape, backfilling, concrete thrust blocking,
22 testing, disinfecting the pipeline, flushing, dichlorination of water used for flushing, and
23 cleanup.

24
25 Payment for restoration will be made under the applicable items shown in the Proposal.
26 If no pay items for restoration are included in the Proposal, restoration shall be
27 considered incidental to the Work of constructing the water main, and all costs thereof
28 shall be included in the unit Contract price Bid for “_____ Pipe for Water Main _____
29 In. Diam.”

30
31
32 **7-12 Valves for Water Mains**

33
34 **7-12.3 Construction Requirements**

35
36 Section 7-12.3 is supplemented with the following:

37
38 Valves shall be installed in strict accordance with manufacturer’s instructions and as
39 shown on the plans. Buried valves shall have all operators or valve box installed so
40 that wrenches or operators perform freely and without binding or other interference.
41 Bed and backfill buried valves according to the requirements of the pipe to which they
42 are attached. Provide concrete supports for operators where required.

43
44 Only City personnel are permitted to operate valves on the potable water side of a
45 system and at wet taps. The City will fine the Contractor for system tampering if
46 unauthorized personnel operate water system valves per Port Orchard Municipal Code
47 13.04.170 Violation.

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Adjust Valve Box

Where shown in the Plans or where directed by the Engineer, the existing valve boxes shall be adjusted to the grade as staked or otherwise designated by the Engineer.

Existing valve boxes shall be lowered prior to final paving then adjusted to grade after final paving.

7-12.4 Measurement

Section 7-12.4 is supplemented with the following:

Adjustment of valve boxes will be per each.

7-12.5 Payment

Section 7-12.5 is supplemented with the following:

"Adjust Valve Box", per each.

Service Connections

7-15.5 Payment

(*****)

Section 7-15.5 is revised to read:

Payment will be made for the following Bid item when it is included in the Proposal:

"Service Connection ____ In. Diam.", per each.

The unit Contract price per each for "Service Connection ____ In. Diam." shall be full pay for all Work to furnish and install the service connection, including but not limited to, excavating, tapping the main, laying and jointing the pipe and fittings and appurtenances, relocating and installing water meter boxes, backfilling, testing, flushing, disinfection of the service connections, and all costs for water meter boxes, tracer wire, warning tape, pipe, fittings, and appurtenances.

7-17 Sanitary Sewers

7-17.2 Materials

(*****)

The list immediately following the first paragraph of Section 7-17.2 is supplemented with the following:

High-Density Polyethylene (HDPE)

The list immediately following the fourth paragraph of Section 7-17.2 is supplemented with the following:

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Section 7-17.2 is supplemented with the following:

Concrete thrust blocks for sanitary sewer pressure force mains shall be commercial concrete poured in place, per section 6-02.3(2)B.

Concrete thrust blocks for sanitary sewer pressure force mains shall be placed at bends, tees, dead ends, and crosses. Concrete thrust blocks shall bear against solid undisturbed earth at the sides and bottom of the trench.

Pipe Casing Material Requirements

High-density polyethylene (HDPE) pipe used for casing shall conform to the requirements of Section 9-05.23.

Casing end seals shall be 1/4-inch (minimum) thickness, pull on style end seals fabricated from EPDM synthetic rubber with stainless steel bands and clamps. End seals shall be as manufactured by PSI Industries or approved equal.

Provide custom engineered skids/isolators to isolate the carrier pipe from the casing. The insulator shall consist of a PVC insulating liner (90 mil minimum thickness), 12-inch wide, 12-gauge (minimum) steel bands with steel risers and glass reinforced plastic or ultra-high molecular weight runners. The skids shall be designed to properly support the pipe filled with sanitary sewer. The runners shall be designed so that the carrier pipe joints clear the casing by two inches. The ferrous components of the insulator and steel bands shall be shop coated with a minimum of 10 mils PVC heat fusion coating. All miscellaneous hardware including stud bolts, washers, and nuts shall be 316 stainless steel. Skids shall center the pipe in the casing. Provide skids as manufactured by PSI Industries, Cascade Manufacturing Co., or approved equal. The minimum number of required skids is 3 per pipe length for the entire length of the casing.

Skids shall not be located more than one foot from each end of the casing. Skids shall be a minimum of 2 inches and maximum of two feet from carrier pipe joints.

Sand used to fill the annular spaces between the casing and carrier pipes shall be clean and shall be free from clay and organic material. 90-100 percent shall pass the No. 4 sieve with not more than 5 percent passing the No. 200 sieve.

7-17.3 Construction Requirements

(*****)

Section 7-17.3 is supplemented with the following:

Tracer wire and warning tape shall be installed above all sanitary sewer force mains and side sewers between mains and cleanouts at property lines with waterproof splices where necessary. Tracer wire shall be 10-gauge or thicker insulated copper wire.

Warning tape shall be installed above all sewer mains and side sewers and shall be metallic tape, green colored, 2 inch minimum width, imprinted in 1 inch black and

1 white letters with "Caution Buried Sewer Line" repeated at not less than four foot
2 intervals. Warning tape shall be installed approximately 18 inches below the finished
3 grade.
4

5 Caps for sewer main shall be butt fusion HDPE end caps resistant to corrosion and
6 abrasion meeting the same specifications as HDPE pipe used for sewer force main in
7 accordance with Section 9-05.23 of these specifications. A survey nail shall be
8 placed at the finished grade to indicate the end of sewer force main for future
9 connection.
10

11 Pipe casing end seals shall be secured in place with stainless steel bands and shall
12 be watertight.
13

14 If the trench soil is unsuitable for trench backfill, as determined by the Inspector, the
15 Contractor shall remove and dispose of unsuitable material and backfill the trench
16 with gravel borrow in accordance with Section 9-03.14(1). Gravel borrow used to
17 replace unsuitable trench backfill will be paid only on an as needed basis, and will not
18 be subject to Section 1-04.4 regarding Changes.
19

20 **7-17.3(2) Cleaning and Testing**

21
22 (*****)

23 Section 7-17.3(2) is supplemented with the following:
24

25 **7-17.3(2) Sanitary Sewer Force Main Pressure Testing**

26
27 Sanitary sewer force mains shall be tested with the following procedures:
28

- 29 1. Fill the pipeline with water after it has been laid and bleed off any trapped air. Subject
30 the lowest element in the system to a test pressure that is 1.5 times the design
31 pressure and check for leakage. When, in the opinion of the Engineer, local conditions
32 require that trenches be backfilled immediately after the pipe has been laid, apply the
33 pressure test after backfilling has been completed but not sooner than a time which
34 will allow sufficient curing of any concrete that may have been used. Typical minimum
35 concrete curing times are 36 hours for early strengths and 7 days for normal strengths.
- 36 2. The test procedures consist of two steps, the initial expansion and the test phase.
37 When test pressure is applied to a water filled pipe, the pipe expands. During the initial
38 expansion of the pipe under test, sufficient make-up water must be added to the
39 system at hourly intervals for 3 hours to maintain the test pressure. After about 4
40 hours, initial expansion should be complete and the actual test can begin.
- 41 3. When the test is to begin, the pipe is full of water and is subjected to a constant test
42 pressure of 1.5 times the system design pressure. The test phase should not exceed
43 3 hours, after which time any water deficiency must be replaced and measured. Add
44 and measure the amount of make-up water required to return to the test pressure and
45 compare this to the maximum allowance indicated below.
- 46 4. An alternate leakage test consists of maintaining the pressure (described above) over
47 a period of 4 hours and then dropping the pressure by 1.0 psi (0.69 MPa). If the
48 pressure then remains within 5% of the target value for 1 hour, this indicates there is
49 no leakage in the system.
- 50 5. Under no circumstances shall the total time under test exceed 8 hours at 1.5 times
51 the system pressure rating. If the test is not complete within this time limit (due to

- 1 leakage, equipment failure, etc.), the test section shall be permitted to “relax” for 8
2 hours prior to the next test sequence.
- 3 6. Air testing is not recommended. Additional safety precautions may be required.
4 Reference procedure is from PPI Technical Report TR-31 by the Plastic Pipe
5 Institute).
- 6 7. Allowance for expansion under test pressure for 10” HDPE (for additional pipe sizes,
7 see City of Port Orchard Public Works Engineering Standards and Specifications
8 Chapter 9):
- 9 a. 1 hour – 0.75 US GALS/100 ft of pipe
10 b. 2 hours – 1.30 US GALS/100 ft of pipe
11 c. 3 hours – 2.10 US GALS/100 ft of pipe
12
13

14 **7-17.5 Payment**

15
16 (*****)

17 The list immediately following the first paragraph of Section 7-17.5 is supplemented with the
18 following:

- 19
20 "High-Density Polyethylene (HDPE) Pipe ___ In. Diam.", per linear foot.
21 "High-Density Polyethylene (HDPE) Casing Pipe ___ In. Diam.", per linear foot.
22

23 The payment statement for all pipes listed in the first paragraph of Section 7-17.5 is revised
24 to read:

25
26 The unit Contract price per linear foot for sewer pipe of the kind and size specified shall
27 be full pay for potholing, furnishing, hauling, and assembling in place the completed
28 installation including all wyes, tees, special fittings, joint materials, caps, concrete thrust
29 blocking, casing fill sand, casing spacers, tracer wire, warning tape, bedding and backfill
30 material, and adjustment of inverts to manholes for the completion of the installation to
31 the required lines and grades.
32

33 **7-19 Sewer Cleanouts**

34 **7-19.3 Construction Requirements**

35
36 (*****)

37 Section 7-19.3 is supplemented with the following:

38
39
40 In non-pedestrian and unpaved areas, cleanouts shall be brought to finished grade
41 and provided with PVC weld-on fittings that form a female threaded opening and a
42 male threaded plug to be used to seal the cleanout. A fiberglass cleanout box shall be
43 brought to finished grade as shown on City of Port Orchard Standard Detail 960.
44

45 **7-19.5 Payment**

46
47 (*****)

48 Section 7-19.5 is revised to read:

49
50 Payment will be made for the following Bid item when it is included in the Proposal:
51

1 "Sewer Cleanout", per each.

2 The unit Contract price per each for cleanouts shall be full pay for furnishing and
3 placing the wye, pipe, pipe bends, pipe plug, castings, and collar as specified herein
4 and as shown on the City of Port Orchard Public Works Standards and Specifications.
5
6

7 **Division 8**
8 **Miscellaneous Construction**
9

10 **8-01 Erosion Control and Water Pollution Control**
11

12 **8-01.3 Construction Requirements**
13

14 **8-01.3(1) General**
15

16 **8-01.3(1)B Erosion and Sediment Control (ESC) Lead**
17

18 Item number 3 and 4 in the second paragraph of Section 8-01.3(1)B are revised to
19 read:

20
21 (October 3, 2022)

22 3. Submit to the Engineer no later than the end of the next working day
23 following the inspection a TESC Inspection Report that includes:

- 24
25 a. When, where, and how BMPs were installed, maintained, modified, and
26 removed.
27
28 b. Observations of BMP effectiveness and proper placement.
29
30 c. Recommendations for improving future BMP performance with
31 upgraded or replacement BMPs when inspections reveal TESC BMP
32 deficiencies.
33
34 d. Identify for each discharge point location whether there is compliance
35 with state water quality standards in WAC 173-201A for turbidity and
36 pH.
37

38 **8-02 Roadside Restoration**
39

40 **8-02.2 Materials**
41

42 **9-14 Erosion Control and Roadside Planting**
43

44 **9-14.2 Topsoil**
45

46 **9-14.2(1) Topsoil Type A**

47 Section 9-14.2(1) is supplemented with the following:
48

49 (February 25, 2021)

50 Topsoil Type A shall meet the following requirements:
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- 1. Cation exchange capacity (CEC) of Topsoil Type A shall be a minimum of 5 milliequivalents CEC/100 g dry soil (U.S. EPA Method 9081).
- 2. Organic content greater than 8-percent but less than 15-percent as measured on a dry weight basis using AASHTO T 267 Determination of Organic Content in Soils by Loss on Ignition.

Topsoil Type A shall be 60-percent to 70-percent *** sandy *** Loam and 40-percent to 30-percent *** coarse *** Compost by volume. *** Sandy *** Loam shall be as defined by the US Department of Agriculture Soil Classification System.

The Contractor shall submit a Particle Size Analysis as a Type 1 Working Drawing from an independent accredited soils testing laboratory indicating the Material source and compliance with all Topsoil Type A specifications. The laboratory analysis shall be with a sample size of no less than 2 pounds.

The *** coarse *** Compost shall conform to the requirements of Section 9-14.5(8).

8-02.3 Construction Requirements

Section 8-02.3 is supplemented with the following:

8-02.3(4) Topsoil

8-02.3(4)A Topsoil Type A

Section 8-02.3(4)A is supplemented with the following:

(August 3, 2015)

Topsoil Type A shall be placed to a non-compacted depth of *** 8 *** inches. The topsoil shall be thoroughly blended prior to placement.

The Contractor shall submit a Type 1 Working Drawing consisting of independent test results from an accredited laboratory demonstrating the Topsoil Type A meets the requirements of Section 9-14.1(1). The Type 1 Working Drawing shall also include the Request for Approval of Material in accordance with Section 1-06.1(2).

8-02.3(5) Roadside Seeding, Lawn and Planting Area Preparation

Section 8-02.3(5) is supplemented with the following:

(August 5, 2013)

After initial area weed control, grading, and soil placement are completed, all soil shall be covered with compost.

Prior to the placement and incorporation of compost, the application and incorporation methods shall be approved by the Engineer.

1 Compost shall not be placed when a condition exists, such as frozen or water
 2 saturated soil that may be detrimental to successful application, incorporation, or soil
 3 structure.
 4
 5 The Contractor shall notify the Engineer a minimum of five working days prior to the
 6 start of compost work.
 7
 8 Compost shall be uniformly and evenly placed in all designated areas at a depth of
 9 *** 2 *** inches.
 10
 11 After placement of the compost, the Contractor shall incorporate the layer uniformly
 12 into the existing soil to a depth of *** 4 *** inches.

13
 14 **8-02.3(6) Mulch and Amendments**

15
 16 **8-02.3(6)B Fertilizers**

17
 18 Section 8-02.3(6)B is supplemented with the following:

19
 20 (September 3, 2019)

21 Fertilizer shall be a commercially prepared mix of 10-20-20 and shall be applied
 22 at the rate of 10 pounds per 1000 square feet.

23
 24 **8-02.3(9) Seeding, Fertilizing, and Mulching**

25
 26 **8-02.3(9)B Seeding and Fertilizing**

27
 28 Section 8-02.3(9)B is supplemented with the following:

29
 30 (*****)

31 Grass seed shall be a commercially prepared mix, made up of low growing
 32 species which will grow without irrigation at the project location, and accepted
 33 by the Engineer.

34
 35 Seed of the following mix, rate, and analysis shall be applied at the rates shown
 36 below on all areas requiring *** seeding and fertilizing *** within the project:

<u>Seed by Common Name, (Botanical Name), and "Source Identification"</u>	<u>Percent of Mix (by weight):</u>
*** Kentucky Bluegrass	30
Creeping Red Fescue	20
Perennial Ryegrass	50
Total	100
Application rate:	8-10 lbs/1000 sf
Purity:	Not less than 98 percent
Germination:	Not less than 90 percent ***

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Seed shall meet or exceed Washington State Department of Agriculture Certified Seed Standards and be from within the *** Marine West Coast Forest and Strait of Georgia/Puget Lowland *** Ecoregion(s) as defined by the US Environmental Protection Agency (EPA).

The seed certification class shall be Certified (blue tag) in accordance with WAC 16-302 and meet the following requirements:

Prohibited Weed	0% max.
Noxious Weed	0% max.
Other Weed	0.20% max.
Other Crop	0.40% max.

Seed mix shall include at least two pollinator species. Seed shall be spread by hydroseed/mulch methods. Hydroseeding shall include first application with seed and 10% mulch fiber; second application with no seed and 90% mulch fiber. Wood Cellulose Fiber Mulch shall be in accordance with Section 9-14.5(2). Tackifier shall be in accordance with Section 9-14.5(7).

8-02.3(11) Mulch

Section 8-02.3(11) is supplemented with the following:

(April 2, 2012)
Bark mulch or wood chip mulch shall be placed to a uniform non-compacted depth of *** 2 inches *** over all planting areas.

Bark or wood chip mulch shall not be placed in areas of standing or flowing water.

8-12 Chain Link Fence and Wire Fence

8-12.2 Materials

Section 8-12.2 is supplemented with the following:

(***)**
Coated Chain Link Fence
Chain link fence fabric shall be hot-dip galvanized with a minimum of 0.8 ounce per square foot of surface area.

Fencing materials shall be coated with an ultraviolet-insensitive plastic or other inert material at least 2 mils in thickness. Any pretreatment or coating shall be applied in accordance with the manufacturer's written instructions. The Contractor shall provide the Engineer with the manufacturer's written specifications detailing the product and method of fabrication. The color coating shall be black or as approved by the Engineer.

Samples of the coated fencing materials shall have received the Engineer's acceptance prior to installation on the project.

1 The Contractor shall supply the Engineer with 10 aerosol spray cans containing a
2 minimum of 14 ounces each of paint of the color specified above. The touch-up paint
3 shall be compatible with the coating system used.
4

5 **8-12.5 Payment**

6
7 Section 8-12.5 is supplemented with the following:

8
9 (April 1, 2002)

10 "Coated Chain Link Fence Type ____", per linear foot.

11 Payment for clearing of fence line for "Coated Chain Link Fence Type ____" shall be in
12 accordance with Section 2-01.5.

13 "Coated End, Gate, Corner, Pull Post for Chain Link Fence", per each.

14 "Double 14 Ft. Coated Chain Link Gate", per each.

15 "Double 20 Ft. Coated Chain Link Gate", per each.

16 "Single 6 Ft. Coated Chain Link Gate", per each.
17

18 **8-14 Cement Concrete Sidewalks**

19
20 **8-14.3 Construction Requirements**

21
22 Section 8-14.3 is supplemented with the following:

23
24 ***(January 7, 2019)***

25 ***Timing Restrictions***

26 Curb ramps shall be constructed on one leg of the intersection at a time. The curb ramps
27 shall be completed and open to traffic within five calendar days before construction can
28 begin on another leg of the intersection unless otherwise allowed by the Engineer.
29

30 Unless otherwise allowed by the Engineer, the five calendar day time restriction begins
31 when an existing curb ramp for the quadrant or traffic island/median is closed to
32 pedestrian use and ends when the quadrant or traffic island/median is fully functional and
33 open for pedestrian access.
34

35 ***(January 7, 2019)***

36 ***Layout and Conformance to Grades***

37 Using the information provided in the Contract documents, the Contractor shall lay out,
38 grade, and form each new curb ramp, sidewalk, and curb and gutter.
39

40 **8-14.5 Payment**

41
42 Section 8-14.5 is supplemented with the following:

43
44 ***(*****)***

45 Payment for all costs incurred for Work necessary to restore existing irrigation services
46 impacted by construction of the bid items "Cement Conc. Sidewalk" and "Cement Conc.
47 Curb Ramp Type ____" shall be included in the cost of those bid items. Irrigation system
48 restoration shall conform to the requirements in Section 8-03.
49

1 **8-20 Illumination, Traffic Signal Systems, Intelligent Transportation Systems,**
2 **and Electrical**

3
4 **8-20.2 Materials**

5
6 **9-29.6 Light And Signal Standards**

7 Section 9-29.6 is supplemented with the following:

8
9 **(June 6, 2023)**

10 **Traffic Signal Standards**

11 Traffic signal standards shall be furnished and installed in accordance with the
12 methods and materials noted in the applicable Standard Plans, pre-approved plans,
13 or special design plans.

14
15 All welds shall comply with the latest AASHTO Standard Specifications for Structural
16 Supports for Highway Signs, Luminaires and Traffic Signals. Welding inspection
17 shall comply with Section 6-03.3(25)A Welding Inspection.

18
19 Hardened washers shall be used with all signal arm connecting bolts instead of
20 lockwashers. All signal arm ASTM F 3125 Grade A325 connecting bolts tightening
21 shall comply with Section 6-03.3(33).

22
23 Traffic signal standard types, applicable characteristics, and foundation types are as
24 follows:

25
26 **Type PPB**

27 Pedestrian push button posts shall conform to Standard Plan J-20.10 or to one
28 of the following pre-approved plans:
29

Fabricator	Pre-Approved Drawing No.
Valmont Ind., Inc.	DB01165 Rev. B (4 sheets)
Ameron Pole Products Division	WA15TR10-1 Rev. C (1 sheet) and WA15TR10-3 Rev. B (1 sheet)
Millerbernd Manufacturing, Co.	74514-WA-PED-PPB Rev J (2 sheets)

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Foundations shall be as noted in Standard Plan J-20.10

Type PS, Type I, Type RM, and Type FB

Type PS pedestrian signal standards, Type I vehicle signal standards, Type RM
ramp meter signal standards, and Type FB flashing beacon standards shall
conform to Standard Plan J-20.16, J-21.15, J-21.16, and J-22.15 respectively,
or to one of the following pre-approved plans:

Fabricator	Pre-Approved Drawing No.
Valmont Ind., Inc.	DB01165 Rev. B (4 sheets)

Ameron Pole Products Division	WA15TR10-1 Rev. C (1 sheet) and WA15TR10-2 Rev. C (1 sheet)
Millerbernd Manufacturing, Co.	74514-WA-PED-FB Rev. H (2 sheets)
Millerbernd Manufacturing Co.	74514-WA-PED-SB Rev. H (2 sheets)

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Foundations shall be as noted in Standard Plan J-21.10.

Type II

Type II signal standards are single mast arm signal standards with no luminaire arm or extension. Type II standards shall conform to one of the following pre-approved plans. Maximum arm length (in feet) and wind load (XYZ value, in cubic feet) is noted for each manufacturer.

Fabricator	Pre-Approved Drawing No.	Max. Arm Length (ft)	Max. Wind Load (XYZ) (ft ³)
Valmont Ind., Inc.	DB01162 Rev. B (5 sheets)	65	3206
Ameron Pole Products Division	WA15TR3724-1 Rev. C (sheet 1 of 2), and WA15TR3724-2 Rev. D (sheet 2 of 2)	65	2935
Millerbernd Manufacturing, Co.	74516-WA-TS-II Rev. L (4 sheets)	65	3697

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Foundations shall be as noted in the Plans and Standard Plan J-26.10. Type II signal standards with two mast arms installed 90 degrees apart may use these pre-approved drawings. Standards with two arms at any other angle are Type SD and require special design.

Type III

Type III signal standards are single mast arm signal standards with one Type 1 (radial davit type) luminaire arm. The luminaire arm has a maximum length of 16 feet and a mounting height of 30, 35, 40, or 50 feet, as noted in the Plans. Type III standards shall conform to one of the following pre-approved plans. Maximum arm length (in feet) and wind load (XYZ value, in cubic feet) is noted for each manufacturer. Wind load limit includes a luminaire arm up to 16 feet in length.

Fabricator	Pre-Approved Drawing No.	Max. Arm Length (ft)	Max. Wind Load (XYZ) (ft ³)
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Valmont Ind., Inc.	DB00162 Rev. B (5 sheets), with Type "J" luminaire arm	65	3259
Ameron Pole Products Division	WA15TR3724-1 Rev. C (sheet 1 of 2), and WA15TR3724-2 Rev. D (sheet 2 of 2), with Series "J" luminaire arm	65	2988
Millerbernd Manufacturing, Co.	74516-WA-TS-III-J Rev. L (5 sheets)	65	3750

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Foundations shall be as noted in the Plans and Standard Plan J-26.10. Type III signal standards with two mast arms installed 90 degrees apart may use these pre-approved drawings. Standards with two arms at any other angle are Type SD and require special design.

Type IV

Type IV strain pole standards shall be consistent with the Plans and Standard Plan J-27.15 or one of the following pre-approved plans:

Fabricator	Pre-Approved Drawing No.
Valmont Ind., Inc.	DB01167 Rev. B (2 sheets)
Ameron Pole Products Division	WA15TR15 Rev. A (2 sheets)
Millerbernd Manufacturing, Co.	74554-WA-SP-IV Rev. H (2 sheets)

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Foundations shall be as noted in the Plans and Standard Plan J-27.10.

Type V

Type V strain poles are combination strain pole and light standards, with Type 1 (radial davit type) luminaire arms. Luminaire arms may be up to 16 feet in length, and a mounting height of 40 or 50 feet, as noted in the Plans. Type V strain poles shall be consistent with the Plans and Standard Plan J-27.15 or one of the following pre-approved plans:

Fabricator	Pre-Approved Drawing No.
Valmont Ind., Inc.	DB01167 Rev. B (2 sheets),
Ameron Pole Products Division	WA15TR15 Rev. A (2 sheets)
Millerbernd Manufacturing, Co.	74554-WA-SP-V Rev. J (3 sheets)

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Foundations shall be as noted in the Plans and Standard Plan J-27.10.

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Type CCTV

Type CCTV camera pole standards shall conform to Standard Plan J-29.15 or to one of the following pre-approved plans:

Fabricator	Pre-Approved Drawing No.
Valmont Ind., Inc.	DB01166 Rev. C (4 sheets)
Ameron Pole Products Division	WA15CCTV01 Rev. B (2 sheets)
Millerbernd Manufacturing, Co.	74577-WA-LC1 Rev. H (2 sheets)
Millerbernd Manufacturing, Co.	74577-WA-LC2 Rev. H (2 sheets)
Millerbernd Manufacturing, Co.	74577-WA-LC3 Rev. H (3 sheets)

Foundations shall be as noted in the Plans and Standard Plan J-29.10.

Type SD

Type SD signal standards are outside the basic requirements of any pre-defined signal standard and require special design. All special design shall be based on the latest AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals and pre-approved plans and as follows:

1. A 115 mph wind loading shall be used.
2. The Mean Recurrence Interval shall be 1700 years.
3. Fatigue category shall be III.

Complete calculations for structural design, including anchor bolt details, shall be prepared by a Professional Engineer, licensed under Title 18 RCW, State of Washington, in the branch of Civil or Structural Engineering or by an individual holding valid registration in another state as a civil or structural Engineer.

All shop drawings and the cover page of all calculation submittals shall carry the Professional Engineer's original signature, date of signature, original seal, registration number, and date of expiration. The cover page shall include the contract number, contract title, and sequential index to calculation page numbers. Two copies of the associated design calculations shall be submitted for approval along with shop drawings.

Details for handholes and luminaire arm connections are available from the Bridges and Structures Office.

Foundations for Type SD standards shall be as noted in the Plans.

1 **9-29.15 Flashing Beacon Control**

2 Section 9-29.15 is supplemented with the following:

3
4 **(January 7, 2019)**

5 **Rapid Flashing Beacons**

6 Rapid Flashing Beacon (RFB) indications shall comply with the dimensional,
7 operational, and flash pattern requirements of Federal Highway Administration
8 (FHWA) Interim Approval 21 (IA-21, Conditions 4, 5, and 6, excluding Condition 5f;
9 https://mutcd.fhwa.dot.gov/resources/interim_approval/ia21/index.htm). RFB
10 systems shall be capable of providing, at a minimum, the following two-channel
11 flashing patterns:

12
13 1. NEMA Standard 50-50:

- 14
15 • Channel one is ON and channel two is OFF for 0.5 seconds.
16
17 • Channel one is OFF and channel two is ON for 0.5 seconds.

18
19 (Cycle repeats; the total flashing pattern cycle length is 1.00 second.)

20
21 2. RFB “WW+S” Pattern (IA-21 Condition 5b):

- 22
23 • Channel one is ON and channel two is OFF for 0.05 seconds.
24
25 • Both channels are OFF for 0.05 seconds.
26
27 • Channel one is OFF and channel two is ON for 0.05 seconds.
28
29 • Both channels are OFF for 0.05 seconds.
30
31 • Channel one is ON and channel two is OFF for 0.05 seconds.
32
33 • Both channels are OFF for 0.05 seconds.
34
35 • Channel one is OFF and channel two is ON for 0.05 seconds.
36
37 • Both channels are OFF for 0.05 seconds.
38
39 • Both channels are ON for 0.05 seconds.
40
41 • Both channels are OFF for 0.05 seconds.
42
43 • Both channels are ON for 0.05 seconds.
44
45 • Both channels are OFF for 0.25 seconds.

46
47 (Cycle repeats; the total flashing pattern cycle length is 0.80 seconds.)

48
49 The flashing pattern shall be user-selectable in the field.

50
51 RFB system pushbuttons shall include a locator tone, but shall not include tactile
52 arrows, speech messages, or vibrotactile indications. RFB system pushbuttons may

1 include speech message and vibrotactile functionality, provided these features can
 2 be deactivated. RFB system pushbuttons shall use a 9" x 12" R10-25 sign. The R10-
 3 25 sign may include integral yellow warning lights.

4
 5 (*****)
 6 RRFB system shall be Carmanah solar RRFB SC315-G Cabinet-Based Rectangular
 7 Rapid Flashing Beacon or approved equal. Solar panel and batteries shall be sized
 8 per manufacturer's recommendations.
 9

10 **8-21 Permanent Signing**

11
 12 **8-21.2 Materials**

13
 14 **9-06.16 Roadside Sign Structures**

15 Section 9-06.16 is supplemented with the following:

16
 17 (January 3, 2011)
 18 **Perforated Steel Square Sign Post System**

19 Where noted in the Plans, steel sign post systems shall be square, pre-punched
 20 galvanized steel tubing, that are NCHRP 350 Test Level 3 Certified and FHWA
 21 approved. The steel sign post system shall include all anchor sleeves, and other
 22 hardware required for a complete sign installation.

23
 24 **System Acceptance**

25 Systems listed in the current QPL will be accepted per the QPL approval code.
 26 Systems not listed in the QPL will be accepted based on a Supplier's Certificate of
 27 Compliance. The Supplier's Certificate of Compliance will be a contract specific letter
 28 from the supplier stating the system is NCHRP 350 Test Level 3 compliant.
 29

30 **9-28.12 Reflective Sheeting**

31 Section 9-28.12 is revised to read:

32
 33 (February 6, 2023)
 34 Reflective sheeting material shall conform to ASTM D4956 – *Standard Specification*
 35 *for Retroreflective Sheeting for Traffic Control*. The following standard reflective
 36 sheeting types have been modified to reflect Contracting Agency requirements:
 37

Device Type	Use	Sheeting Color	Allowable Sheeting Types
Permanent Signs			
Permanent Signing	All	All	IV ¹
Object Markers	All	All	IV
Temporary Construction Signing			
Warning Signs	All	Fluorescent Orange	VIII, IX, X ² , XI
Regulatory Signs	All	White	IV
Regulatory Signs	Rural	White	II ³ , IV
Regulatory Signs	Urban/Rural	White	III ³ , IV

Regulatory Signs	All	Red	III, IV
Regulatory Signs	All	Green	II, IV
Regulatory Letters, Border or Symbols		Green	III ³ , IV ³
Temporary Construction Signs	All	All Other Background Colors	III ³ , IV
Other Devices			
Barricades	All	White or Orange	III ³ , IV
Barrier Delineators	All	White or Yellow	III, IV, V, XI
Bollards	All	All	IV
Flexible Guidepost	All	All	III, IV, V
Pedestrian Channelization Devices	All	White or Orange	III ³ , IV
Signal Backplates	Portable Signals		IV
Signal Backplates	Permanent Signals		See Section 9-29.16
Tall Channelization Devices 42-inch	All	Fluorescent Orange/White	III ⁴ , IV ⁴ , VIII, IX, XI ⁴
Traffic Cones 28- and 36-inch	All	White or Higher White	III ³ , IV
Traffic Safety Drums	All	Fluorescent Orange/White	III ⁴ , IV ⁴ , VIII, IX, XI ⁴
Transportable Attenuators	All	Yellow and Black Chevron	III ³ , IV
Transportable Attenuators	All	White and Red Chevron	IV
Tubular Markers (portable or pavement mounted)	All	White or Yellow	III ³ , IV
Utilities attached to Bridges	All		I, See Section 6-01.10

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Notes:

1. Except S Series signs with fluorescent yellow green sheeting shall use Type XI and Overhead Warning Signs and overhead exit only panels with fluorescent yellow shall use Type IV or XI.
2. Former Type X, not shown in ASTM D4956, however meets requirements of Types VII, IX and XI.
3. Only devices in inventory may be used, new fabrication shall use Type IV.

1 4. Type III and Type IV orange and white sheeting may be still used
2 through December 31, 2026.
3

4 **9-28.14 Sign Support Structures**

5 Section 9-28.14 is supplemented with the following:
6

7 **(September 8, 2020)**

8 **Manufacturers for Steel Roadside Sign Supports**

9 The Standard Plans lists several steel sign support types. These supports are
10 patented devices and many are sole-source. All of the sign support types listed below
11 are acceptable when shown in the Plans.
12

<u>Steel Sign Support Type</u>	<u>Manufacturer</u>
Type TP-A & TP-B	Transpo Industries, Inc.
Type PL, PL-T & PL-U	Northwest Pipe Co.
Type AS	Transpo Industries, Inc.
Type AP	Transpo Industries, Inc.
Type ST 1, ST 2, ST 3, & ST 4	Ultimate Highway Solutions, Inc., Allied Tube & Conduit Corp. (Mechanical Division), Trinity Highway Products, LLC.
Type SB-1, SB-2, & SB-3	Ultimate Highway Solutions, Inc., Xcessories Squared Development and Manufacturing Incorporated, Trinity Highway Products, LLC.

31
32 **8-24 Rock and Gravity Block Wall and Gabion Cribbing**

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34 **8-24.2 Materials**

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36 **(*****)**

37 Section 8-24.2 is supplemented with the following:
38

39 Rockery caps will be required on all rockeries higher than four (4) feet in the public
40 right-of-way. The cement concrete cap shall be a minimum of two (2) inches thick.
41 Concrete for Rockery Cap shall be Class 3000 or Commercial. Lamp black coloring
42 agent to match the color of the rockery shall be added to the cement concrete during
43 mixing in an amount not to exceed 1.5 pounds per cubic yard of concrete. Where a
44 pedestrian handrail or chain link fence is required, the rockery cap shall be deepened
45 to a minimum of twelve (12) inches for a section six (6) inches either side of each
46 pipe sleeve. Dummy joints shall be constructed at twelve (12) foot intervals. The
47 depth of the dummy joint shall be one-third the depth of the cap.
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50 **8-24.3 Construction Requirements**
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8-24.3(1) Rock Wall

8-24.3(1)B Excavation

(*****)

Section 8-24.3(1)B is supplemented with the following:

The Contractor is wholly responsible to ensure the safety of the workers when excavating the temporary backwall. The Contractor shall be responsible for determining shoring needs and requirements to complete the work. In addition, the Contractor shall ensure that temporary excavations are not left open for extended periods of time and shall not be left open over weekends and holidays.

8-24.3(1)C Foundation Preparation

(*****)

Section 8-24.3(1)C is supplemented with the following:

The keyway shall be comprised of a shallow trench (18-inches minimum depth and 12-inches wide) extending the full length of the wall and as wide as the wall units and the drain rock layer. The keyway shall be slightly inclined back towards the face being protected. Areas of soft subgrade shall be over-excavated and replaced with compacted structural fill. A four-inch diameter perforated or slotted high-density polyethylene (HDPE), smooth interior pipe shall be placed in the trench. It shall be bedded on and surrounded by free-draining, 2-inches to 4-inches crushed rock with 5% fines. This stormwater conveyance pipe shall be installed with sufficient slope to initiate positive drainage and the outfall connected by a solid wall tightline with positive drainage to the nearest catch basin. This connection to the catch basin shall be incidental to the cost of this item and shall be as approved by the Engineer.

8-24.3(1)E Rock Placement and Backfill

(*****)

Section 8-24.3(1)E is revised to read:

Rocks shall be placed so there are no continuous joint planes in either the vertical or lateral direction.

The first course of rock shall be placed on firm, unyielding soil or onto a layer of compacted crushed rock. There shall be full contact between the rock and the soil or crushed rock surface, which may require shaping of the ground surface or slamming or dropping the rocks into place so that the soil foundation conforms to the rock face bearing on it. The bottom of the first course of rock shall be a minimum of eighteen (18) inches below the lowest adjacent site grade.

Where possible, rocks shall be placed so that the rock shall bear on at least two rocks below it. Rocks shall be oriented so that flat surface contact points between adjacent rocks are maximized. Point-to-point contact between adjacent rocks shall be

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minimized. Each rock in a course shall be arranged so that the natural irregularities in the rocks key the rocks together and so that the courses are keyed together.

Rocks shall increase in size from the top of the wall to the bottom at a uniform rate. The minimum rock sizes, as referenced from the top of the wall, shall be as follows:

Depth From Top of Wall (feet)	Minimum Rock Size at Depth From Top of Wall
6	Three Man
9	Four Man
12	Five Man

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Rocks at the top of the wall shall be Two Man or larger.

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Because of the shape of rocks used to construct a rockery, it is virtually impossible to avoid creating void spaces between individual rocks. Voids should be minimized for long-term stability. Where voids of greater than six inches in dimension exist in the face of a rockery, they shall be visually examined to determine if contact between the rocks exists within the thickness of the rock wall. If there is no rock contact within the rock wall thickness, the void shall be chinked with a smaller piece of rock from inside the wall so that they are keyed between the rocks or the rocks with the void shall be replaced so that the voids are less than 6-inches. Where gaps are larger than 6-inches, the Engineer reserves the right to have the Contractor replace the rocks at no additional cost to the Contracting Agency.

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Because of the potential for the chinking rock to fall out with subsequent loss of drain rock or soil behind the rockery wall, the void must be chinked from the inside of the wall if possible. In this way the lateral pressure will force the chink rock into the void. However, if it is impracticable to chink the voids from the inside face and the Contractor elects to chink the void from the outside face and as approved by the Engineer, the chinking rocks should be hammered in to ensure a tight fit. If this action damages the adjacent rocks, those rocks shall be replaced at no additional cost to the Contracting Agency. Chinking rocks must be of the same quality as that for the large rocks.

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Nonwoven geotextile filter fabric meeting the requirements of Section 9-33.2(2) shall be placed between the backfill for rock wall and the remaining surrounding soil surfaces with seams in the geotextile overlapped a minimum of 2 feet. Geotextile fabric shall be placed such that it fully separates the drainage material and the backfill, and shall be extended over the top of the drainage zone.

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Backfill for the rock wall shall be placed behind each course in 12-inch lifts and tamped to provide a stable condition prior to placing rocks for the next successive course. A rock drainage filter shall be installed between the rear face of the rock wall and the soil face being protected. This drain rock layer shall be at least twelve (12) inches thick. For rock walls eight (8) feet in height or higher, it shall be at least eighteen (18) inches thick. The material for the drainage filter shall conform to the requirements of Section 9-13.7(2).

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8-24.5 Payment

1 (*****)
2 The bid item for "Rock for Rock Wall" in Section 8-24.5 is revised to read:
3
4 "Rock for Rock Wall", per ton.

5
6 The unit Contract price per ton for "Rock for Rock Wall" shall also include furnishing and
7 installing chinking materials, furnishing, placement, and compaction of wall drain bedding
8 necessary for the keyway trench, furnishing and placement of the perforated drain pipe
9 for the length of the wall, furnishing and placement of geotextile for separation, and
10 furnishing, placement, and connection of pipe to the nearest catch basin.

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13 **Division 9**
14 **Materials**

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16 **9-05 Drainage Structures and Culverts**

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18 **9-05.12 Polyvinyl Chloride (PVC) Pipe**

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20 **9-05.12(1) Solid Wall PVC Culvert Pipe, Solid Wall PVC Storm Sewer**
21 **Pipe, and Solid Wall PVC Sanitary Sewer Pipe**

22
23 (*****)
24 Section 9-05.12(1) is revised to read:

25
26 Solid wall PVC culvert pipe, solid wall PVC storm sewer pipe, and solid wall PVC
27 sanitary sewer pipe and fittings shall be solid wall construction and shall conform to the
28 following requirements:

29
30 For pipe sizes up to 15 inches: ASTM D3034 SDR 35

31
32 For pipe sizes from 18 to 48 inches: ASTM F679 using a minimum pipe stiffness of 46
33 psi in accordance with Table 1.

34
35 Pipe used in sewer installations shall be colored green for in-ground identification as
36 sewer pipe.

37
38 Pipe shall be suitable for use as a gravity sewer conduit. Provisions must be made for
39 contraction and expansion at each joint with a rubber ring. Joints shall conform to ASTM
40 D3212 using elastomeric gaskets conforming to ASTM F477. The bell shall consist of
41 an integral wall section with a solid cross-section rubber ring, factory assembled,
42 securely locked in place to prevent displacement during assembly.

43
44 All fittings and accessories shall be as manufactured by the pipe supplier or approved
45 equal and have bell and/or spigot configurations compatible with that of the pipe.

46
47 Provide factory molded wye fittings with elastomeric gasketed bell end joints. Tapped
48 and solvent welded fittings or fittings strapped to the main sewer are not acceptable.
49 Side sewers shall be connected to the main by means of a wye. A gasketed cap or plug
50 shall be furnished with each wye. The plug or cap shall be banded or otherwise secured
51 to withstand the test pressures to which it will be subjected without leakage.

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9-05.13 Ductile Iron Sewer Pipe

(*****)

Section 9-05.13 is revised to read:

Ductile iron pipe shall not be used for a pressure sewer system. Pipe shall be centrifugally cast ductile iron, conforming to AWWA C151. Minimum thickness class shall be as determined in accordance with AWWA C150 but in no case less than Class 52.

Fittings shall be cast iron or ductile iron conforming to the requirements of AWWA C110 or AWWA C153 and rated for not less than 250 psi working pressure.

Joints shall be push-on or mechanical joint conforming to AWWA C111. Bolts for mechanical joints shall be ductile iron or Corten tee head bolts.

Gaskets for mechanical or push-on joints shall be sewage and grease resistant rubber (nitrile or neoprene), conforming to AWWA C111.

One of the following lining systems shall be used for corrosion resistance:

- 1. 40 mil DFT nominal ceramic epoxy lining.
- 2. 40 mil DFT nominal polyurethane lining.
- 3. 30 mil DFT electrostatically applied fusion bonded polymer alloy coating.

U.S. Pipe or Pacific States pipe and fittings, or approved equal shall be used.

Tracer wire shall be installed on all force mains and shall be copper wire, No. 10. Waterproof splices shall be used where necessary.

Polyethylene film underground warning tape with metal core shall be placed. Tape for sanitary sewer shall be green with black and white lettering reading "CAUTION SEWER LINE BURIED BELOW".

9-05.15 Metal Castings

9-05.15(1) Manhole Ring and Cover

(*****)

Section 9-05.15(1) is revised to read:

Manhole frames and covers shall be ductile iron and shall have the word "SEWER" in 3-inch raised letters. Ring and cover shall be Rexus or East Jordan Iron Works hinged manhole frame and lid.

9-05.23 High-Density Polyethylene (HDPE) Pipe

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(*****)
Section 9-05.23 is supplemented with the following:

High-density polyethylene pipe for use as sanitary sewer pressure conduit shall conform to the following specifications and standards

1. Base resin shall conform to all requirements of ASTM D 1248, Type III, Class C, Category 5, Grade P34, with a PPI rating of PE 3408.
2. Cell classification shall be 345434C per ASTM D3350.
3. Environmental stress crack resistance – No cracks after 5,000 hours as determined by ASTM D1693, Condition C.
4. Rating – Long-term hydrostatic strength of 1,600 psi and hydrostatic design stress of 800 psi as determined by ASTM D2837.
5. Working pressure rating shall be 160 psi, SDR 11.
6. Pipe shall be butt-fused and internal weld seams removed.

9-05.50 Precast Concrete Drainage Structures

9-05.50(2) Manholes

(*****)
Section 9-05.50(2) is revised to read:

Precast concrete manholes shall be designed for a soil unit weight of 150 lb/CF and a live loading complying with AASHTO HS-20. All manholes shall conform to ASTM C478. Portland Cement shall be ASTM C150 Type II or Type IV. Precast bases may be separate or integral with the riser section.

All manholes shall be installed with a GU Manhole Base Liner, or equal, with plastic invert and nonskid landing area embedded in concrete and O-ring gaskets for the sewer connection or approved equal. The liner shall have a 5 mm minimum thickness. The depth of the main through channel shall be equal to or larger than the diameter of the largest pipe. Provide riser heights of not less than one foot. Provide riser sections, which have a preformed opening of a minimum size to accommodate the pipe to be inserted. Heights of base sections shall be such that openings for pipes are not located at joints.

Joints shall be sewage and grease resistant confined rubber gaskets conforming to ASTM C443. In addition, all joints shall be grout/sealed on all interior surfaces with mortar.

Manhole steps shall conform to ASTM D4101 polypropylene encased steel manhole steps with non-slip surface. Steel reinforcing shall be ½-inch minimum diameter ASTM A6156, Grade 60. Alternatively, steps may be knurled 3/4-inch diameter 316 stainless steel steps with a 2-inch hook on the embedment end.

Pipe connections to manholes shall be by the following methods:

For new manholes that require liners, fiberglass (FRP) manhole base by GU Industries or approved equal with sewage and grease resistant O-ring gasket conforming to ASTM C443.

1 For new and existing manhole bases, sanitary sewer-proof elastomeric boots such as
2 Kor-N Seal I-Wedge Korband by National Pollution Control Systems Inc. or approved
3 equal.
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5

6 **9-05.51 Adjustment Sections**

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8 (*****)

9 Section 9-05.51 is revised to read:

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11 Concrete grade rings meeting the requirements of ASTM C478 shall be used. HDPE
12 grade adjustment rings shall be used to adjust minor variations in grade or slope that
13 concrete grade rings cannot accomplish. HDPE grade adjustment rings shall be Ladtech
14 or approved equal. Grade adjustment rings shall be limited to maximum height of 12
15 inches. In no case shall the “neck-length” (grade rings plus the manhole frame) exceed
16 18 inches. Interior and exterior of all grade rings shall be sealed with mortar.
17

18 Sections 9-05.51(1), 9-05.51(2), 9-05.51(3), 9-05.51(4), and 9-05.51(5) are deleted.
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20

21 **9-30 Water Distribution Materials**

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23 **9-30.1 Pipe**

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25 **9-30.1(1) Ductile Iron Pipe**

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27 (*****)

28 Paragraph one of Section 9-30.1(1) is revised to read:

29

30 1. Ductile iron pipe shall be thickness Class 52 and shall conform to standards of ANSI
31 Standard A21.51 (AWWA C-151). All pipe shall be restrained joint pipe and shall be
32 ductile iron manufactured in accordance with requirements of ANSI A21.51 (AWWA
33 C-151). Push on joints or mechanical joints shall be in accordance with ANSI 21.11
34 (AWWA C-111). Pipe shall be Tyton Joint Pipe or approved equal. Gaskets shall be
35 Field Lok or approved equal. Pipe thickness shall be designed in accordance with
36 ANSI A21.50 (AWWA C-150). Standard thickness cement-mortar lining shall be in
37 accordance with ANSI A21.4 (AWWA C-104). Where Mega-Lug joints are required,
38 they shall be Mega-Lug Series 1100, as manufactured by EBAA Iron, or approved
39 equal. Mega-Lugs shall be used on all mechanical joints. Mega-Lugs shall be used
40 on all mechanical joints. When requested, furnish certification from manufacturer of
41 pipe and gasket being supplied that all of the specified inspections and tests have
42 been made and the results comply with requirements of this standard.
43

44 All pipe shall be laid with one piece of 10-gauge or thicker insulated copper wire.
45 The locating wire shall be situated immediately adjacent to the pipe and connected
46 to all valves. Locating wire shall also connect to all service lines and meters.
47

48 Locator tape will not be used as an alternative to wire but will be used in addition to
49 the wire. Continuous metallic tape, brightly colored, 2-inch minimum width, imprinted
50 with 1-inch letters with “CAUTION BURIED WATER LINE” shall be repeated not

1 less than 4 foot intervals. Install warning tape above water line approximately 18
2 inches below the finished grade.

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4 **9-30.2 Fittings**

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6 (*****)

7 Paragraph one of Section 9-30.2 is supplemented with the following:

8
9 Bolts shall be zinc or chrome plated cast iron. Stainless steel bolts will not be allowed
10 for use.

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13 **9-30.2(1) Ductile Iron Pipe**

14
15 (*****)

16 Paragraph one of Section 9-30.2(1) is revised to read:

17
18 All fittings shall be ductile iron where possible. Steel fittings will not be accepted. Ductile
19 iron fittings shall be short body, cement lined, and have a minimum working pressure of
20 250 psi. Metal thickness and manufacturing processes shall conform to applicable
21 portions of ANSI Standards A21.20, A21.11, B16.2, and B16.4. Standard cement lining
22 shall be in accordance with ANSI Standard A21.4 (AWWA C-104). Mechanical joint
23 (MJ), ductile iron, compact fittings 3 inches through 24 inches shall be in accordance
24 with AWWA C-153.

25
26 Ductile iron flange (FL) fittings shall be in accordance with AWWA C-110, with bolt
27 pattern to match adjacent pipe and 250 psi pressure rating. Gasket material for flanges
28 shall be neoprene, bunan, chlorinated butyl, or cloth inserted rubber. Gaskets shall be
29 full face ring type.

30
31 **9-30.3 Valves**

32
33 **9-30.3(1) Gate Valves (3 to 16 inches)**

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35 (*****)

36 Section 9-30.3(1) is revised to read:

37
38 All gate valves for water lines 2" and larger shall be of the resilient, wedge-type, non-
39 rising stem and shall meet or exceed the performance requirements of AWWA C-509
40 and be suitable for installation with the type and class of pipe being installed. The
41 wedge shall be fully encapsulated with vulcanized SBR rubber. Valves to be equipped
42 with mechanical joints or flange ends of Class 125 in accordance with ANSI B16.1
43 unless otherwise specified. Valve opening direction shall be counter-clockwise. Provide
44 fusion epoxy coating and 2-inch operating nut. Gate valves shall be Dresser, Kennedy,
45 or approved equivalent.

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48 **9-30.3(4) Valve Boxes**

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50 (*****)

51 Section 9-30.3(4) is revised to read:

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All valve boxes shall be two-piece cast iron, and equipped with a suitable extension for a 36-inch to 65-inch trench depth. Top sections and lids will be designed for installation in vehicular areas. Lids will be labeled "WATER", and lid tabs will point in the direction of the water main. The valve boxes shall have a design loading meeting AASHTO H-20. All valves and valve boxes will be set plumb with the valve box centered on the valve. Valve box installation shall comply with City of Port Orchard Standard Detail 884. Cast iron valve boxes shall be Olympic Foundry, Rich Box No. 920 or approved equivalent and must be compatible with the City's system.

9-30.3(8) Tapping Sleeve and Valve Assembly

(*****)

Section 9-30.3(8) is revised to read:

Provide restrained mechanical joint with flanged outlet tapping sleeve with a minimum 150 psi rating. The sleeve shall be grade 18-8 type 304 stainless steel and SBR rubber gasket, Romac Style SST, Ford Style FAST, or approved equal.

The valve shall be 200 psi pressure rated, resilient seated, non-rising stem, AWWA C-509, with flanged by mechanical joint connection. The valve shall have a cast or ductile iron body with AWWA C-550 epoxy coating. The valves shall be M&H style 3751-NRS, or approved equal.

9-30.5 Hydrants

(*****)

Section 9-30.5 is supplemented with the following:

Fire hydrants shall conform to AWWA Standard C-502 for post-type, dry-barrel, selfdraining hydrants suitable for at least a 54-inch depth. Each hydrant shall have a six-inch inlet, a minimum valve opening of 5-1/4 inches, two 2-1/2 inch hose connections, and a 4- 1/2 inch pumper port with a 5 inch Storz pumper connection. All ports shall have National Standard Threads or other connection devices consistent with local fire protection authority requirements. All valves and caps shall open counterclockwise and have a 1-1/2-inch flat point pentagon operation and cap nuts. Hydrants shall be breakaway traffic models.

The configuration of the fire hydrant assembly shall be as shown on Standard Detail 881. The assembly shall have a cast iron tee (with mechanical joint connections to the main) a flanged tee, a six-inch flanged by mechanical joint gate valve with valve box, and a six-inch ductile iron pipe extension. All mechanical joints shall be secured with mega-lugs. Push on pipe joints shall be secured with field lock gaskets. Shackle rods to connect the hydrant to the auxiliary valve at the main are not permitted.

Provide a minimum of seven cubic feet of washed gravel surrounding the 90-degree bend below the hydrant. Gravel shall be 1-1/2-inch minus and be retained on 1/4 inch mesh for drain.

Hydrants added to existing systems will be installed by wet tap.

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The hydrant shall have at least an 18-inch clearance between the ground and the lower port, and a 36-inch unobstructed radius around it for operation of a hydrant wrench. The steamer/pumper port shall face the street or the most likely direction of emergency approach.

Hydrants shall be coated with two coats of yellow Rustoleum paint or equal in accordance with coating manufacturer's recommendations.

Fire hydrants shall be Clow Medallion, M&H 129S.

Sections 9-30.5(1), 9-30.5(2), 9-30.5(3), 9-30.5(4), 9-30.5(5), and 9-30.5(6) shall be deleted.

9-30.6 Water Service Connections (2 Inches and Smaller)

(*****)

Section 9-30.6 is supplemented with the following:

Water service installations shall comply with the City of Port Orchard Standard Detail 860 and 861. The location and type of corporation stop, meter setters, and locating wire on all individual services must be as indicated on Standard Details 860 and 861. In addition, if pressure reducing valves are required for individual service connections where static pressure at the meter exceeds 80 psi, they normally will be installed after the meter. Meter sets and yokes will be specified by the City.

9-30.6(1) Saddles

(*****)

Section 9-30.6(1) is revised to read:

Service saddles shall be ductile iron body, stainless steel straps, nuts, and bolts, Buna N or SBR O-ring gasket, with iron pipe tap. Saddles 1½ inches and larger shall be double strap. Saddles shall be Romac 101S or 202S, Smith Blair 311, or approved equal.

9-30.6(2) Corporation Stops

(*****)

Section 9-30.6(2) is revised to read:

Corporation stops for one-inch to two-inch service saddles shall be bronze body, male iron pipe threaded inlet, pack joint (compression) outlet, Mueller H- 10013, Ford FB1100, or approved equivalent conforming to AWWA C800. Direct taps for services are not allowed.

9-30.6(3) Service Pipes

(*****)

Section 9-30.6(3) is supplemented with the following:

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Polyethylene pipe for service connections shall conform to AWWA C-901, PE 3406, SDR 9, copper tubing size. Pipe shall have a cell classification meeting ASTM D3350 and a pressure rating of 160 psi. Joints shall be pack joint with stainless steel insert stiffener.

Sections 9-30.6(3)A, 9-30.6(3)B, and 9-30.6(3)C are deleted.

9-30.6(5) Meter Setters

(*****)

Section 9-30.6(5) is revised to read:

Meter sets shall be installed using a meter yoke equipped with a locking angle meter valve and an angle check valve. Meter yoke inlets and outlets shall have male iron pipe size threads.

Meter yoke assemblies shall be Mueller H-1434-2 or H-1422, Ford VH 72-12W with valve, or approved equal. If meters need to be raised, Mueller H-14118 Meter Relocater, or approved equivalent shall be used.

9-30.6(7) Meter Boxes

(*****)

Section 9-30.6(7) is revised to read:

Meter boxes shall be SIGMA-Raven HDPE Meter Box Model RMB 1324-SW or RMB 1730-SW and HDPE Lid with touch-read, and meter reader door per standard detail, or approved equal. Individual pressure reducing valves are required where static water pressure exceeds 80 psi and shall be installed after the meter as directed by the City. Individual service pressure reducing valves shall be of bronze body construction with a renewable stainless steel seat, stainless steel integral strainer, and temperature resistant diaphragm. Pressure reducing valves 2-inches and smaller for individual water service lines shall be Wilkins 600 Series or equal.

**(January 9, 2023)
Standard Plans**

The State of Washington Standard Plans for Road, Bridge and Municipal Construction M21-01, effective September 30, 2022, is made a part of this contract.

The Standard Plans are revised as follows:

A-10.30
RISER RING detail (Including SECTION view and RISER RING DIMENSIONS table):
The RISER RING detail is deleted from the plan.

INSTALLATION detail, SECTION A: The "1/4" callout is revised to read "+/- 1/4" (SEE CONTRACT ~ Note: The + 1/4" installation is shown in the Section A view)"

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2 B-90.40
3 Valve Detail – DELETED
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5 C-8
6 DELETED
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8 C-8A
9 DELETED
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11 C-20.42
12 Plan View (Case 22A-31), callout, was; “BEAM GUARDRAIL ANCHOR TYPE 10 PAY
13 LIMIT” is revised to read; “BEAM GUARDRAIL ANCHOR TYPE 11 PAY LIMIT”
14
15 C-23.60
16 DELETED
17
18 C-23.70
19 Sheet 1, Detail A, callout, was – “EIGHT 5/8” x 1/2” (IN) BOLTS W/ HEX NUTS AND
20 WASHERS (SEE NOTE 5)”is revised to read: “EIGHT 5/8” x 1-1/2” (IN) BOLTS W/ HEX
21 NUTS AND WASHERS (SEE NOTE 5)”.
22 Sheet 2, ANCHOR RAIL ELEMENT DETAIL and associated Enlarged Detail, 3/4”
23 Diameter hole pattern (8 holes), callout, “3/4” DIAMETER HOLE (TYP.)” is revised to read:
24 “29/32” x 1 1/8” (IN) SLOT (TYP.)”
25
26 D-2.04
27 DELETED
28
29 D-2.06
30 DELETED
31
32 D-2.08
33 DELETED
34
35 D-2.32
36 DELETED
37
38 D-2.34
39 DELETED
40
41 D-2.60
42 DELETED
43
44 D-2.62
45 DELETED
46
47 D-2.64
48 DELETED
49
50 D-2.66
51 DELETED
52

1 D-2.68
2 DELETED
3
4 D-2.80
5 DELETED
6
7 D-2.88
8 DELETED
9
10 D-3.15
11 DELETED
12
13 D-3.16
14 DELETED
15
16 D-3.17
17 DELETED
18
19 D-3.10
20 Sheet 1, Typical Section, callout – “FOR WALLS WITH SINGLE SLOPE TRAFFIC
21 BARRIER. USE THE DETAILS ABOVE THE MATCH LINE ON STANDARD PLAN D-
22 3.15” is revised to read; “FOR WALLS WITH SINGLE SLOPE TRAFFIC BARRIER, SEE
23 CONTRACT PLANS”
24 Sheet 1, Typical Section, callout – “FOR WALLS WITH F-SHAPE TRAFFIC BARRIER.
25 USE THE DETAILS ABOVE THE MATCH LINE ON STANDARD PLAN D-3.16” is revised
26 to read; “FOR WALLS WITH F-SHAPE TRAFFIC BARRIER, SEE CONTRACT PLANS”
27
28 D-3.11
29 Sheet 1, Typical Section, callout – “”B” BRIDGE APPROACH SLAB (SEE BRIDGE
30 PLANS) OR PERMANENT GEOSYNTHETIC WALL BARRIER ~ SEE STANDARD
31 PLANS D-3.15 OR D-3.16” is revised to read; ”B” BRIDGE APPROACH SLAB OR
32 MOMENT SLAB (SEE CONTRACT PLANS)
33 Sheet 1, Typical Section, callout – “TYPICAL BARRIER ON BRIDGE APPROACH SLAB
34 (SEE BRIDGE PLANS) OR PERMANENT GEOSYNTHETIC WALL BARRIER ~ SEE
35 STANDARD PLANS D-3.15 OR D-3.16” is revised to read; “TYPICAL BARRIER ON
36 BRIDGE APPROACH SLAB OR MOMENT SLAB (SEE CONTRACT PLANS)
37
38 D-10.10
39 Wall Type 1 may be used if no traffic barrier is attached on top of the wall. Walls with traffic
40 barriers attached on top of the wall are considered non-standard and shall be designed
41 in accordance with the current WSDOT Bridge Design Manual (BDM) and the revisions
42 stated in the 11/3/15 Bridge Design memorandum.
43
44 D-10.15
45 Wall Type 2 may be used if no traffic barrier is attached on top of the wall. Walls with traffic
46 barriers attached on top of the wall are considered non-standard and shall be designed
47 in accordance with the current WSDOT BDM and the revisions stated in the 11/3/15
48 Bridge Design memorandum.
49
50 D-10.30
51 Wall Type 5 may be used in all cases.
52

- 1 D-10.35
2 Wall Type 6 may be used in all cases.
3
- 4 D-10.40
5 Wall Type 7 may be used if no traffic barrier is attached on top of the wall. Walls with traffic
6 barriers attached on top of the wall are considered non-standard and shall be designed
7 in accordance with the current WSDOT BDM and the revisions stated in the 11/3/15
8 Bridge Design memorandum.
9
- 10 D-10.45
11 Wall Type 8 may be used if no traffic barrier is attached on top of the wall. Walls with traffic
12 barriers attached on top of the wall are considered non-standard and shall be designed
13 in accordance with the current WSDOT BDM and the revisions stated in the revisions
14 stated in the 11/3/15 Bridge Design memorandum.
15
- 16 D-15.10
17 STD Plans D-15 series "Traffic Barrier Details for Reinforced Concrete Retaining Walls"
18 are withdrawn. Special designs in accordance with the current WSDOT BDM are required
19 in place of these STD Plans.
20
- 21 D-15.20
22 STD Plans D-15 series "Traffic Barrier Details for Reinforced Concrete Retaining Walls"
23 are withdrawn. Special designs in accordance with the current WSDOT BDM are required
24 in place of these STD Plans.
25
- 26 D-15.30
27 STD Plans D-15 series "Traffic Barrier Details for Reinforced Concrete Retaining Walls"
28 are withdrawn. Special designs in accordance with the current WSDOT BDM are required
29 in place of these STD Plans.
30
- 31 F-10.18
32 Note 2, "Region Traffic engineer approval is needed to install a truck apron lower than 3".
33 - DELETED
34
- 35 J-10.10
36 Sheet 4 of 6, "Foundation Size Reference Table", PAD WIDTH column, Type 33xD=6' –
37 3" is revised to read: 7' – 3". Type 342LX / NEMA P44=5' – 10" is revised to read: 6' – 10"
38 Sheet 5 of 6, Plan View, "FOR EXAMPLE PAD SHOWN HERE:, "first bullet" item, "-
39 SPACE BETWEEN TYPE B MOD. CABINET AND 33x CABINET IS 6" (IN)" IS REVISED
40 TO READ: "SPACE BETWEEN TYPE B MOD. CABINET (BACK OF ALL CHANNEL
41 STEEL) AND 33x CABINET IS 6" (IN) (CHANNEL STEEL ADDS ABOUT 5" (IN)"
42
- 43 J-10.16
44 Key Note 1, Standard Plan J-10.30 revised to Standard Plan J-10.14
45
- 46 J-10.17
47 Key Note 1, Standard Plan J-10.30 revised to Standard Plan J-10.14
48
- 49 J-10.18
50 Key Note 1, Standard Plan J-10.30 revised to Standard Plan J-10.14
51
- 52 J-20.10

- 1 Elevation View, horizontal dimension to edge of sidewalk 10" (IN) OR LESS DESIRABLE
2 ~ 18" (IN) MAXIMUM is revised to read: "10" (IN) MAXIMUM"
3
- 4 J-20.26
5 Add Note 1, "1. One accessible pedestrian pushbutton station per pedestrian pushbutton
6 post."
7
- 8 J-20.16
9 View A, callout, was – LOCK NIPPLE, is revised to read; CHASE NIPPLE
10
- 11 J-21.10
12 Sheet 1, Elevation View, Round Concrete Foundation Detail, callout – "ANCHOR BOLTS
13 ~ 3/4" (IN) x 30" (IN) FULL THREAD ~ THREE REQ'D. PER ASSEMBLY" IS REVISED TO
14 READ: "ANCHOR BOLTS ~ 3/4" (IN) x 30" (IN) FULL THREAD ~ FOUR REQ'D. PER
15 ASSEMBLY"
16 Sheet 1 of 2, Elevation view (Round), add dimension depicting the distance from the top
17 of the foundation to find 2 #4 reinforcing bar shown, to read; 3" CLR.. Delete "(TYP.)" from
18 the 2 1/2" CLR. dimension, depicting the distance from the bottom of the foundation to find
19 2 # 4 reinf. Bar.
20 Sheet 1 of 2, Elevation view (Square), add dimension depicting the distance from the top
21 of the foundation to find 1 #4 reinforcing bar shown, to read; 3" CLR. Delete "(TYP.)" from
22 the 2 1/2" CLR. dimension, depicting the distance from the bottom of the foundation to find
23 1 # 4 reinf. Bar.
24 Sheet 2 of 2, Elevation view (Round), add dimension depicting the distance from the top
25 of the foundation to find 2 #4 reinforcing bar shown, to read; 3" CLR. Delete "(TYP.)" from
26 the 2 1/2" CLR. dimension, depicting the distance from the bottom of the foundation to find
27 2 # 4 reinf. Bar.
28 Sheet 2 of 2, Elevation view (Square), add dimension depicting the distance from the top
29 of the foundation to find 1 #4 reinforcing bar shown, to read; 3" CLR. Delete "(TYP.)" from
30 the 2 1/2" CLR. dimension, depicting the distance from the bottom of the foundation to find
31 1 # 4 reinf. Bar.
32 Detail F, callout, "Heavy Hex Clamping Bolt (TYP.) ~ 3/4" (IN) Diam. Torque Clamping
33 Bolts (see Note 3)" is revised to read; "Heavy Hex Clamping Bolt (TYP.) ~ 3/4" (IN) Diam.
34 Torque Clamping Bolts (see Note 1)"
35 Detail F, callout, "3/4" (IN) x 2' – 6" Anchor Bolt (TYP.) ~ Four Required (See Note 4)" is
36 revised to read; "3/4" (IN) x 2' – 6" Anchor Bolt (TYP.) ~ Three Required (See Note 2)"
37
- 38 J-21.15
39 Partial View, callout, was – LOCK NIPPLE ~ 1 1/2" DIAM., is revised to read; CHASE
40 NIPPLE ~ 1 1/2" (IN) DIAM.
41
- 42 J-21.16
43 Detail A, callout, was – LOCKNIPPLE, is revised to read; CHASE NIPPLE
44
- 45 J-22.15
46 Ramp Meter Signal Standard, elevation, dimension 4' - 6" is revised to read; 6'-0"
47 (2x) Detail A, callout, was – LOCK NIPPLE ~ 1 1/2" DIAM. is revised to read; CHASE
48 NIPPLE ~ 1 1/2" (IN) DIAM.
49
- 50 J-40.10

1 Sheet 2 of 2, Detail F, callout, "12 – 13 x 1 ½" S.S. PENTA HEAD BOLT AND 12" S. S.
2 FLAT WASHER" is revised to read; "12 – 13 x 1 ½" S.S. PENTA HEAD BOLT AND 1/2"
3 (IN) S. S. FLAT WASHER"
4

5 J-40.36
6 Note 1, second sentence; "Finish shall be # 2B for backbox and # 4 for the cover." Is
7 revised to read; "Finish shall be # 2B for barrier box and HRAP (Hot Rolled Annealed and
8 Pickled) for the cover.
9

10 J-40.37
11 Note 1, second sentence; "Finish shall be # 2B for backbox and # 4 for the cover." Is
12 revised to read; "Finish shall be # 2B for barrier box and HRAP (Hot Rolled Annealed and
13 Pickled) for the cover.
14

15 J-75.20
16 Key Notes, note 16, second bullet point, was: "1/2" (IN) x 0.45" (IN) Stainless Steel
17 Bands", add the following to the end of the note: "Alternate: Stainless steel cable with
18 stainless steel ends, nuts, bolts, and washers may be used in place of stainless steel
19 bands and associated hardware."
20

21 J-75.41
22 DELETED
23

24 J-75.55
25 Notes, Note A1, Revise reference, was – G-90.29, should be – G-90.20.
26

27 K-80.20
28 DELETED
29

30 L-5.10
31 Sheet 2, Typical Elevation, callout - "2' – 0" MIN. LAP SPLICE BETWEEN (mark) A #3
32 BAR AND WALL REINFORCEMENT ~ TYPICAL" is revised to read: "2' – 0" MIN. LAP
33 SPLICE BETWEEN (MARK) A #4 BAR AND WALL REINFORCEMENT ~ TYPICAL"
34 Section C, callout; "(mark) A #3" is revised to read: "(mark) A #4", callout - "(mark) B #3"
35 is revised to read: "(mark) B #4", callout - "(mark) C #3 TIE" is revised to read: "(mark) C
36 #4 TIE"
37 Reinforcing Steel Bending Diagram, (mark) B detail, callout – "128 deg." is revised to
38 read: "123 deg.", callout – "51 deg." is revised to read: "57 deg."
39

40 The following are the Standard Plan numbers applicable at the time this project was
41 advertised. The date shown with each plan number is the publication approval date
42 shown in the lower right-hand corner of that plan. Standard Plans showing different dates
43 shall not be used in this contract.
44

A-10.10-00.....8/7/07	A-30.35-00.....10/12/07	A-50.10-01.....8/17/21
A-10.20-00.....10/5/07	A-40.00-01.....7/6/22	A-50.40-01.....8/17/21
A-10.30-00.....10/5/07	A-40.10-04.....7/31/19	A-60.10-03.....12/23/14
A-20.10-00.....8/31/07	A-40.15-00.....8/11/09	A-60.20-03.....12/23/14
A-30.10-00.....11/8/07	A-40.20-04.....1/18/17	A-60.30-01.....6/28/18
A-30.30-01.....6/16/11	A-40.50-02.....12/23/14	A-60.40-00.....8/31/07

45 B-5.20-03.....9/9/20 B-30.50-03.....2/27/18 B-75.20-03.....8/17/21

B-5.40-02.....1/26/17	B-30.60-00.....9/9/20	B-75.50-02.....3/15/22
B-5.60-02.....1/26/17	B-30.70-04.....2/27/18	B-75.60-00.....6/8/06
B-10.20-02.....3/2/18	B-30.80-01.....2/27/18	B-80.20-00.....6/8/06
B-10.40-02.....8/17/21	B-30.90-02.....1/26/17	B-80.40-00.....6/1/06
B-10.70-02.....8/17/21	B-35.20-00.....6/8/06	B-85.10-01.....6/10/08
B-15.20-01.....2/7/12	B-35.40-00.....6/8/06	B-85.20-00.....6/1/06
B-15.40-01.....2/7/12	B-40.20-00.....6/1/06	B-85.30-00.....6/1/06
B-15.60-02.....1/26/17	B-40.40-02.....1/26/17	B-85.40-00.....6/8/06
B-20.20-02.....3/16/12	B-45.20-01.....7/11/17	B-85.50-01.....6/10/08
B-20.40-04.....2/27/18	B-45.40-01.....7/21/17	B-90.10-00.....6/8/06
B-20.60-03.....3/15/12	B-50.20-00.....6/1/06	B-90.20-00.....6/8/06
B-25.20-02.....2/27/18	B-55.20-03.....8/17/21	B-90.30-00.....6/8/06
B-25.60-02.....2/27/18	B-60.20-02.....9/9/20	B-90.40-01.....1/26/17
B-30.05-00.....9/9/20	B-60.40-01.....2/27/18	B-90.50-00.....6/8/06
B-30.10-03.....2/27/18	B-65.20-01.....4/26/12	B-95.20-02.....8/17/21
B-30.15-00.....2/27/18	B-65.40-00.....6/1/06	B-95.40-01.....6/28/18
B-30.20-04.....2/27/18	B-70.20-01.....3/15/22	
B-30.30-03.....2/27/18	B-70.60-01.....1/26/17	
B-30.40-03.....2/27/18		

1

C-1.....9/8/22	C-22.40-09.....9/8/22	C-60.70-01.....9/8/22
C-1b.....9/8/22	C-22.45-06.....9/8/22	C-60.80-01.....9/8/22
C-1d.....10/31/03	C-23.70-00.....8/22/22	C-70.15-00.....8/17/21
C-2c.....8/12/19	C-24.10-03.....7/24/22	C-70.10-03.....8/20/21
C-4f.....8/12/19	C-24.15-00.....3/15/22	C-75.10-02.....9/16/20
C-6a.....9/8/22	C-25.20-07.....8/20/21	C-75.20-03.....8/20/21
C-7.....9/8/22	C-25.22-06.....8/20/21	C-75.30-03.....8/20/21
C-7a.....9/8/22	C-25.26-05.....8/20/21	C-80.10-02.....9/16/20
C-20.10-08.....9/8/22	C-25.30-01.....8/20/21	C-80.20-01.....6/11/14
C-20.14-05.....9/8/22	C-25.80-05.....8/12/19	C-80.30-02.....8/20/21
C-20.15-02.....6/11/14	C-60.10-02.....9/8/22	C-80.40-01.....6/11/14
C-20.18-04.....9/8/22	C-60.15-00.....8/17/21	C-85.10-00.....4/8/12
C-20.40-09.....9/8/22	C-60.20-01.....9/8/22	C-85.11-01.....9/16/20
C-20.41-04.....8/22/22	C-60.30-01.....8/17/21	C-85.15-02.....8/27/21
C-20.42-05.....7/14/15	C-60.40-00.....8/17/21	C-85-18-03.....9/8/22
C-20.43-00.....8/22/22	C-60.45-00.....8/17/21	
C-20.45.03.....9/8/22	C-60.50-00.....8/17/21	
C-22.16-07.....9/16/20	C-60.60-00.....8/17/21	

2

D-2.36-03.....6/11/14	D-4.....12/11/98	D-10.35-00.....7/8/08
D-2.46-02.....8/13/21	D-6.....6/19/98	D-10.40-01.....12/2/08
D-2.84-00.....11/10/05	D-10.10-01.....12/2/08	D-10.45-01.....12/2/08
D-2.92-01.....4/26/22	D-10.15-01.....12/2/08	
D-3.09-00.....5/17/12	D-10.20-01.....8/7/19	
D-3.10-01.....5/29/13	D-10.25-01.....8/7/19	
D-3.11-03.....6/11/14	D-10.30-00.....7/8/08	

3

E-1.....2/21/07	E-4.....8/27/03
E-2.....5/29/98	E-4a.....8/27/03

4

F-10.12-04.....9/24/20	F-10.62-02.....4/22/14	F-40.15-04.....9/25/20
F-10.16-00.....12/20/06	F-10.64-03.....4/22/14	F-40.16-03.....6/29/16

POTTERY AVE NON-MOTORIZED IMPROVEMENTS

	F-10.18-03.....3/28/22	F-30.10-04.....9/25/20	F-45.10-03.....8/13/21
	F-10.40-04.....9/24/20	F-40.12-03.....6/29/16	F-80.10-04.....7/15/16
	F-10.42-00.....1/23/07	F-40.14-03.....6/29/16	
1	G-10.10-00.....9/20/07	G-26.10-00.....7/31/19	
	G-20.10-03.....8/20/21	G-30.10-04.....6/23/15	
	G-22.10-04.....6/28/18	G-50.10-03.....6/28/18	
	G-24.10-00.....11/8/07	G-90.10-03.....7/11/17	
	G-24.20-01.....2/7/12	G-90.20-05.....7/11/17	
	G-24.30-02.....6/28/18	G-90.30-04.....7/11/17	
	G-24.40-07.....6/28/18	G-95.10-02.....6/28/18	
	G-24.50-05.....8/7/19	G-95.20-03.....6/28/18	
	G-24.60-05.....6/28/18	G-95.30-03.....6/28/18	
	G-25.10-05.....9/16/20		
2	H-10.10-00.....7/3/08	H-32.10-00.....9/20/07	H-70.10-02.....8/17/21
	H-10.15-00.....7/3/08	H-60.10-01.....7/3/08	H-70.20-02.....8/17/21
	H-30.10-00.....10/12/07	H-60.20-01.....7/3/08	
3	I-10.10-01.....8/11/09	I-30.20-00.....9/20/07	I-40.20-00.....9/20/07
	I-30.10-02.....3/22/13	I-30.30-02.....6/12/19	I-50.20-02.....7/6/22
	I-30.15-02.....3/22/13	I-30.40-02.....6/12/19	I-60.10-01.....6/10/13
	I-30.16-01.....7/11/19	I-30.60-02.....6/12/19	I-60.20-01.....6/10/13
	I-30.17-01.....6/12/19	I-40.10-00.....9/20/07	I-80.10-02.....7/15/16
4	J-05.50-00.....8/30/22	J-28.10-02.....8/7/19	J-50.25-00.....6/3/11
	J-10.....7/18/97	J-28.22-00.....8/07/07	J-50.30-00.....6/3/11
	J-10.10-04.....9/16/20	J-28.24-02.....9/16/20	J-60.05-01.....7/21/16
	J-10.12-00.....9/16/20	J-28.26-01.....12/02/08	J-60.11-00.....5/20/13
	J-10.14-00.....9/16/20	J-28.30-03.....6/11/14	J-60.12-00.....5/20/13
	J-10.15-01.....6/11/14	J-28.40-02.....6/11/14	J-60.13-00.....6/16/10
	J-10.16-02.....8/18/21	J-28.42-01.....6/11/14	J-60.14-01.....7/31/19
	J-10.17-02.....8/18/21	J-28.43-01.....6/28/18	J-75.10-02.....7/10/15
	J-10.18-02.....8/18/21	J-28.45-03.....7/21/16	J-75.20-01.....7/10/15
	J-10.20-04.....8/18/21	J-28.50-03.....7/21/16	J-75.30-02.....7/10/15
	J-10.21-02.....8/18/21	J-28.60-03.....8/27/21	J-75.50-00.....8/30/22
	J-10.22-02.....8/18/21	J-28.70-04.....8/30/22	J-75.55-00.....8/30/22
	J-10.25-00.....7/11/17	J-29.10-02.....8/26/22	J-80.05-00.....8/30/22
	J-10.26-00.....8/30/22	J-29.15-01.....7/21/16	J-80.10-01.....8/18/21
	J-12.15-00.....6/28/18	J-29.16-02.....7/21/16	J-80.12-00.....8/18/21
	J-12.16-00.....6/28/18	J-30.10-01.....8/26/22	J-80.15-00.....6/28/18
	J-15.10-01.....6/11/14	J-40.01-00.....8/30/22	J-81.10-02.....8/18/21
	J-15.15-02.....7/10/15	J-40.05-00.....7/21/16	J-81.12-00.....9/3/21
	J-20.01-00.....8/30/22	J-40.10-04.....4/28/16	J-84.05-00.....8/30/22
	J-20.10-04.....7/31/19	J-40.20-03.....4/28/16	J-86.10-00.....6/28/18
	J-20.11-03.....7/31/19	J-40.30-04.....4/28/16	J-90.10-03.....6/28/18
	J-20.15-03.....6/30/14	J-40.35-01.....5/29/13	J-90.20-03.....6/28/18
	J-20.16-02.....6/30/14	J-40.36-02.....7/21/17	J-90.21-02.....6/28/18
	J-20.20-02.....5/20/13	J-40.37-02.....7/21/17	J-90.50-00.....6/28/18
	J-20.26-01.....7/12/12	J-40.38-01.....5/20/13	
	J-21.10-04.....6/30/14	J-40.39-00.....5/20/13	
	J-21.15-01.....6/10/13	J-40.40-02.....7/31/19	

POTTERY AVE NON-MOTORIZED IMPROVEMENTS

	J-21.16-01.....6/10/13	J-45.36-00.....7/21/17	
	J-21.17-01.....6/10/13	J-50.05-00.....7/21/17	
	J-21.20-01.....6/10/13	J-50.10-01.....7/31/19	
	J-22.15-02.....7/10/15	J-50.11-02.....7/31/19	
	J-22.16-03.....7/10/15	J-50.12-02.....8/7/19	
	J-26.10-03.....7/21/16	J-50.13-01.....8/30/22	
	J-26.15-01.....5/17/12	J-50.15-01.....7/21/17	
	J-26.20-01.....6/28/18	J-50.16-01.....3/22/13	
	J-27.10-01.....7/21/16	J-50.18-00.....8/7/19	
	J-27.15-00.....3/15/12	J-50.19-00.....8/7/19	
	J-28.01-00.....8/30/22	J-50.20-00.....6/3/11	
1			
	K-70.20-01.....6/1/16	K-80.32-00.....8/17/21	K-80.35-01.....9/16/20
	K-80.10-02.....9/25/20	K-80.34-00.....8/17/21	K-80.37-01.....9/16/20
2			
	L-5.10-00.....9/19/22	L-20.10-03.....7/14/15	L-40.20-02.....6/21/12
	L-5.15-00.....9/19/22	L-30.10-02.....6/11/14	L-70.10-01.....5/21/08
	L-10.10-02.....6/21/12	L-40.15-01.....6/16/11	L-70.20-01.....5/21/08
3			
	M-1.20-04.....9/25/20	M-11.10-04.....8/2/22	M-40.20-00.....10/12/07
	M-1.40-03.....9/25/20	M-12.10-03.....8/2/22	M-40.30-01.....7/11/17
	M-1.60-03.....9/25/20	M-15.10-01.....2/6/07	M-40.40-00.....9/20/07
	M-1.80-03.....6/3/11	M-17.10-02.....7/3/08	M-40.50-00.....9/20/07
	M-2.20-03.....7/10/15	M-20.10-04.....8/2/22	M-40.60-00.....9/20/07
	M-2.21-00.....7/10/15	M-20.20-02.....4/20/15	M-60.10-01.....6/3/11
	M-3.10-04.....9/25/20	M-20.30-04.....2/29/16	M-60.20-03.....8/17/21
	M-3.20-04.....8/2/22	M-20.40-03.....6/24/14	M-65.10-03.....8/17/21
	M-3.30-04.....9/25/20	M-20.50-02.....6/3/11	M-80.10-01.....6/3/11
	M-3.40-04.....9/25/20	M-24.20-02.....4/20/15	M-80.20-00.....6/10/08
	M-3.50-03.....9/25/20	M-24.40-02.....4/20/15	M-80.30-00.....6/10/08
	M-5.10-03.....9/25/20	M-24.60-04.....6/24/14	
	M-7.50-01.....1/30/07	M-24.65-00.....7/11/17	
	M-9.50-02.....6/24/14	M-24.66-00.....7/11/17	
	M-9.60-00.....2/10/09	M-40.10-03.....6/24/14	

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(*****)

Standard Details

The City of Port Orchard Public Works Engineering Standards and Specifications, effective February 2019, is made a part of this contract.

The following are the Standard Detail numbers applicable at the time this project was advertised. The date shown with each plan number is the publication approval date shown in the lower right-hand corner of that plan. Standard Details showing different dates shall not be used in this contract.

200.....1/24/19	241.....1/15/19
201.....1/15/19	260.....1/15/19
220.....1/15/19	
221.....1/30/19	
222.....1/15/19	
240.....1/15/19	

1

300.....1/29/19	340.....1/31/19
301.....1/29/19	341.....1/29/19
320.....1/29/19	342.....1/31/19
321.....1/31/19	360.....1/31/19
322.....1/31/19	361.....1/31/19
323.....1/31/19	

2

400.....1/29/19	424.....1/30/19
401.....1/29/19	425.....1/30/19
402.....1/29/19	426.....1/30/19
403.....1/29/19	427.....1/30/19
404.....1/24/19	428.....1/31/19
420.....1/29/19	429.....1/31/19
421.....1/29/19	430.....1/30/19
422.....1/31/19	431.....1/30/19
423.....1/31/19	460.....1/31/19

3

500.....2/21/19
501A.....2/1/19
501B.....1/30/19

4

800-B.....1/30/19	840B.....1/30/19	865.....1/23/19
801.....1/31/19	841.....1/31/19	866.....1/23/19
802.....1/30/19	840A.....1/30/19	880.....1/23/19
803-A.....1/15/19	840B.....1/30/19	881.....1/23/19
803-B.....1/15/19	860.....1/22/19	882.....1/23/19
820.....1/30/19	861.....1/22/19	883.....1/23/19
821.....1/30/19	863A.....1/30/19	884.....1/23/19
840A.....1/30/19	864.....1/23/19	

5

900.....1/23/19	928.....1/24/19
901.....1/30/19	940.....1/31/19
920.....1/30/19	941.....1/31/19
921.....1/30/19	942.....1/31/19
922.....1/30/19	943.....1/30/19
923.....1/30/19	960.....1/30/19
924.....1/30/19	961.....1/30/19
925.....1/30/19	
926.....1/30/19	
927.....1/30/19	

6

POTTERY AVE NON-MOTORIZED IMPROVEMENTS

POTTERY AVE NON-MOTORIZED IMPROVEMENTS

CITY OF PORT ORCHARD PUBLIC WORKS DEPARTMENT

SHEET INDEX

SHEET TITLE	DRAWING #	SHEET #
COVER SHEET	CV1	1
GENERAL NOTES	GN1	2
SITE PREPARATION AND TESC PLAN	SP1-SP12	3-14
PAVING PLAN	PV1-PV11	15-25
MISCELLANEOUS DETAILS	MD1-MD2	26-27
UTILITY PLAN	UT1-UT7	28-34
CHANNELIZATION AND SIGNING PLAN	CH1-CH11	35-45



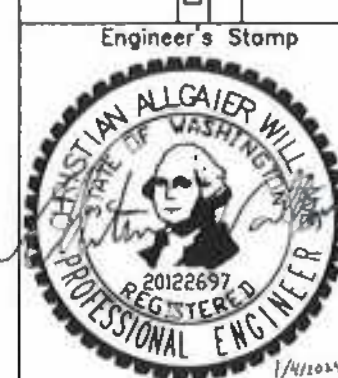
VICINITY MAP
N.T.S

K. Chris Hammer 1-4-2024
 APPROVED BY: K. CHRIS HAMMER, P.E.
 CITY ENGINEER
 CITY OF PORT ORCHARD

Denis Ryan 1-4-2024
 APPROVED BY: DENIS RYAN
 PUBLIC WORKS DIRECTOR
 CITY OF PORT ORCHARD



DATE	REVISION TYPE	REVISIONS
	DESIGN	CHECK
	CHECK	REVIEW
	REVIEW	D



CITY OF PORT ORCHARD CAPITAL PROJECTS
 216 PROSPECT STREET, PORT ORCHARD, WA 98366
 PHONE: 360.876.4991

NAME OR INITIALS AND DATE	NAME OR INITIALS AND DATE
DESIGNED: CAW OCT 2023	PROJECT MANAGER: K. CHRIS HAMMER
CHECKED: KCH OCT 2023	REVIEWED: OCT 2023
DRAWN: CAW OCT 2023	REVISED AS-BUILT
CHECKED: KCH OCT 2023	

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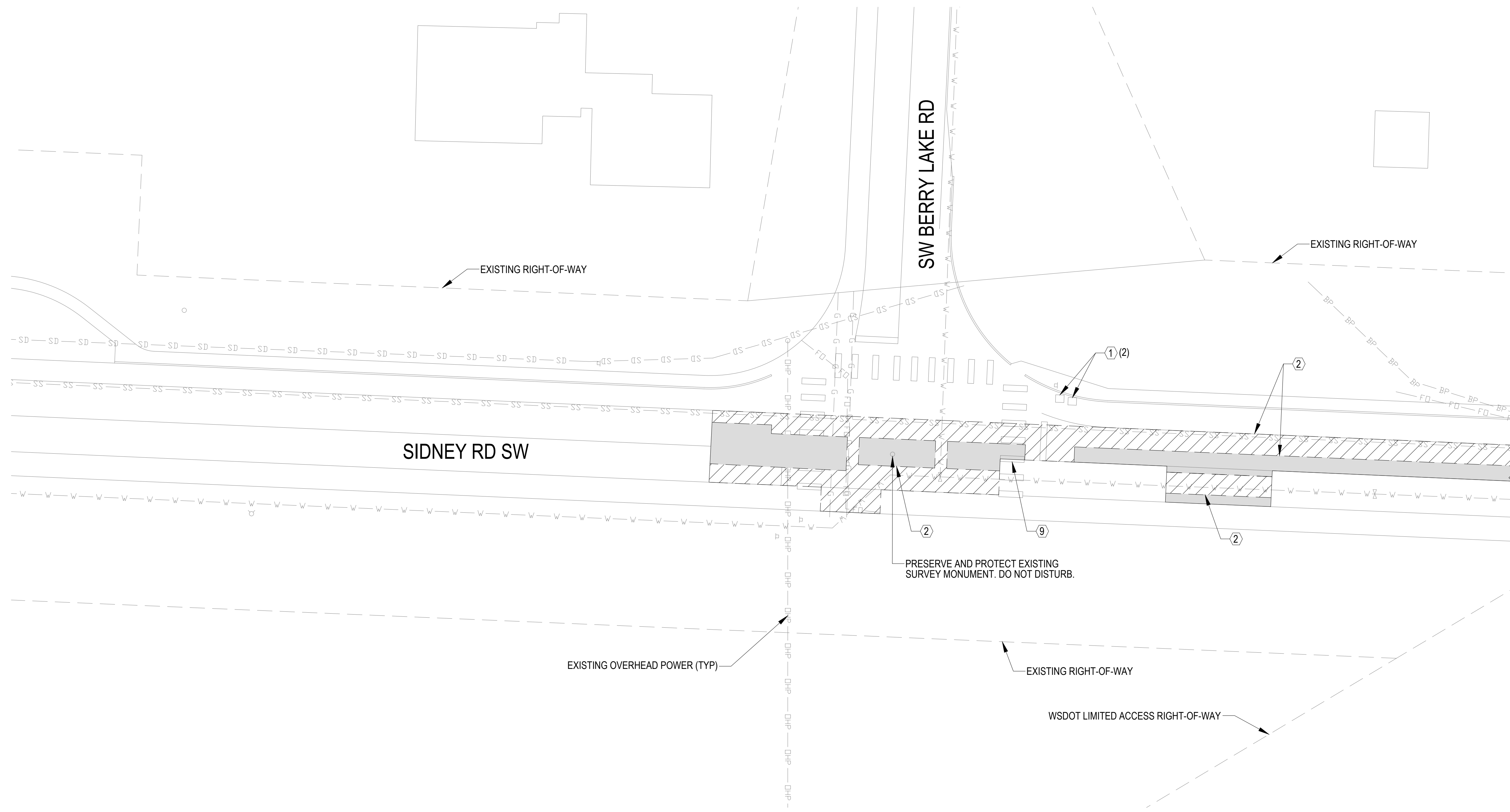
POTTERY AVE NON-MOTORIZED IMPROVEMENTS

COVER SHEET

PLAN NO.
CV1

SHEET
1 OF 45

SEC. 2 & 3 T.23N. R.1E. W.M.

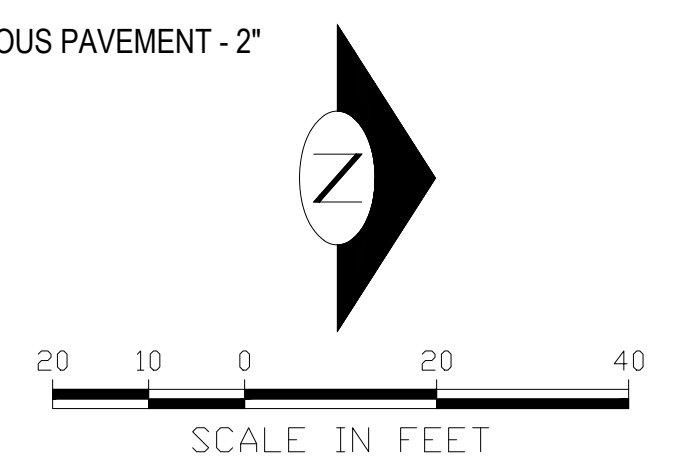


- GENERAL NOTES:**
- STORM DRAIN INLET PROTECTION PER WSDOT STD. PLAN I-40.20 SHALL BE INSTALLED ON ALL NEW CATCH BASINS AT THE TIME OF INSTALLATION AND IN ALL EXISTING CATCH BASINS BEFORE COMMENCING WORK PER THESE PLANS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN EXISTING HORIZONTAL AND VERTICAL INFORMATION REQUIRED TO PLACE CURB AND GUTTER IN THE CORRECT LOCATION.
 - CLEARING AND GRUBBING LIMITS SHALL INCLUDE ALL NON-HARDSCAPED LOCATIONS BETWEEN THE EXISTING EDGE OF PAVEMENT AND THE DAYLIGHT WITH EXISTING GROUND. THE LIMITS MAY EXTEND TO THE RIGHT-OF-WAY, OR AS DIRECTED BY THE ENGINEER. TREES WITHIN THE CLEARING AND GRUBBING LIMITS SHALL BE PROTECTED UNLESS SHOWN ON THE PLANS AS TO BE REMOVED.
 - TREES AND THEIR ROOT STRUCTURES SHALL BE REMOVED IN A MANNER THAT IS NOT DESTRUCTIVE TO THE TREES THAT ARE TO REMAIN.
 - THE CONTRACTOR SHALL KEEP A MINIMUM 4 FOOT WIDE ACCESSIBLE PATHWAY AT ALL TIMES THROUGH THE SITE OR AS DIRECTED BY THE ENGINEER.
 - ADDITIONAL SAWCUT MAY BE REQUIRED FOR UTILITIES AND/OR PAVING WORK.
 - ALL ITEMS SHALL BE PROTECTED AND MAINTAINED UNLESS OTHERWISE NOTED.
 - REMOVE EXISTING IRRIGATION HEADS, VALVES, AND ALL OTHER RELATED IRRIGATION EQUIPMENT AS NECESSARY FOR CONSTRUCTION WORK. CAP EXISTING IRRIGATION LINES AT RIGHT-OF-WAY LINE. IRRIGATION SHALL BE REINSTALLED AND DEEMED OPERATIONAL BY COPO MAINTENANCE PERSONNEL PRIOR TO PROJECT ACCEPTANCE.
 - ALL SIDEWALK MATCH-IN LOCATIONS SHALL PROVIDE A SAWCUT AT THE NEAREST JOINT.
 - CONTRACTOR SHALL COORDINATE WITH KITSAP TRANSIT ON TEMPORARY BUS STOP LOCATIONS A MINIMUM OF 5 BUSINESS DAYS PRIOR TO BUS STOP IMPACTS.
 - CONSTRUCTION ENTRANCE SHALL BE INSTALLED PER WSDOT STD. PLAN I-80.10.
 - STORMWATER AND EROSION CONTROL BMP'S SHALL BE FOLLOWED IN ACCORDANCE WITH THE 2019 STORMWATER MANAGEMENT MANUAL FOR WESTERN WASHINGTON.
 - UTILITY TRENCHES SHALL CONFORM TO COPO STD. DETAIL 404. SEE UT PLANS FOR FURTHER INFORMATION.
 - CONTRACTOR SHALL PROTECT ALL SURVEY MONUMENTS AND SHALL COMPLY WITH RCW 58.09.130 AND WAC 332-120-040 IF ANY MONUMENT IS TO BE DISTURBED.
 - CONTRACTOR SHALL CALL ONE-CALL BEFORE ANY EXCAVATION BEGINS AT 811.
 - EXISTING PAVEMENT MARKINGS AND SIGNS THAT CONFLICT WITH THE CHANNELIZATION AND SIGNING PLAN SHALL BE REMOVED. SEE CH PLANS FOR SIGN REMOVALS.
 - SEE UT PLANS FOR UTILITY RELATED REMOVALS.
 - HIGH VISIBILITY FENCE AND HIGH VISIBILITY SILT FENCE SHALL BE INSTALLED PER WSDOT STD. PLANS I-10.10 AND I-30.17 AS DIRECTED BY THE ENGINEER SEE DWG. GN1 FOR ADDITIONAL NOTES.

- CONSTRUCTION NOTES:**
- INSTALL INLET PROTECTION PER WSDOT STD. PLAN I-40.20
 - SAWCUT
 - EXISTING UTILITY POLE TO BE RELOCATED BY OTHERS (PSE)
 - PROTECT AND MAINTAIN EXISTING UTILITY POLE
 - REMOVE EXISTING CURB AND GUTTER (INCL. IN ROADWAY EXCAVATION INCL. HAUL)
 - REMOVE EXISTING CURB (INCL. IN ROADWAY EXCAVATION INCL. HAUL)
 - PROTECT AND MAINTAIN EXISTING POWER PEDESTAL
 - REMOVE PAINT LINE
 - REMOVE PLASTIC CROSSWALK LINE
 - REMOVE EXISTING SIDEWALK (INCL. IN ROADWAY EXCAVATION INCL. HAUL).
 - REMOVE PLASTIC TRAFFIC MARKING
 - EXISTING PEDESTAL TO BE RELOCATED BY OTHERS (CENTURYLINK)
 - PRESERVE AND PROTECT EXISTING SEPTIC DRAIN FIELD

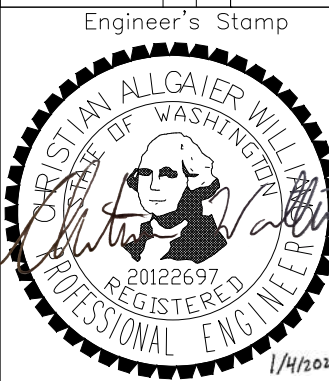
LEGEND:

- ROADWAY EXCAVATION INCL. HAUL
- PLANING BITUMINOUS PAVEMENT - 2"
- SAWCUTTING



DESIGN'D	CHECK'D	REVIEW'D
REVISION	TYPE	REVISIONS
DATE		

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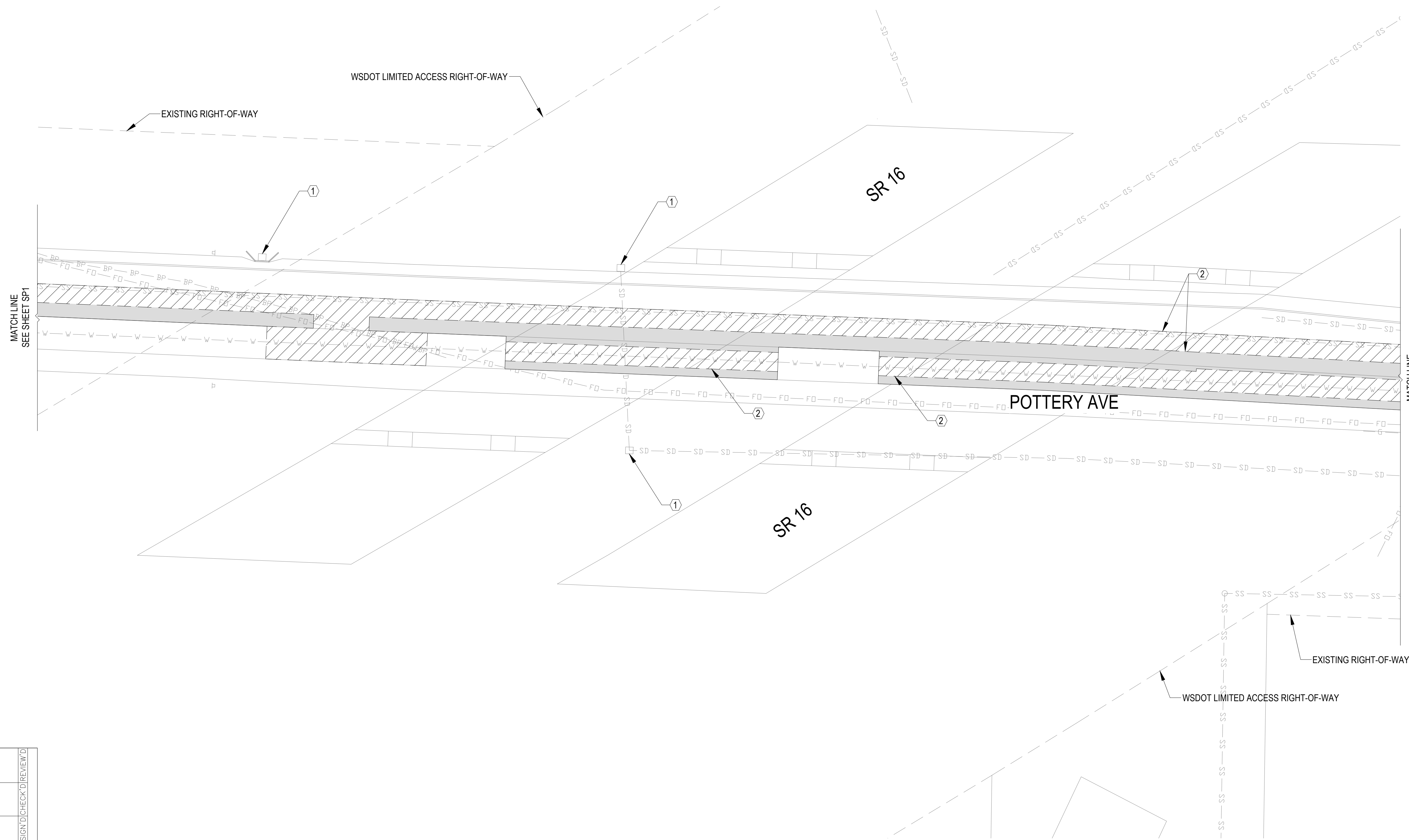
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DESIGNED	CAW OCT 2023	PROJECT MANAGER: K. CHRIS HAMMER
CHECKED	KCH OCT 2023	REVIEWED: OCT 2023
DRAWN	CAW OCT 2023	
CHECKED	KCH OCT 2023	REVISED AS-BUILT



POTTERY AVE NON-MOTORIZED IMPROVEMENTS
 SITE PREPARATION AND TESC PLAN

PLAN NO.
SP1
 SHEET
 3 OF 45

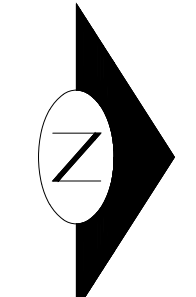
SEC. 2 & 3 T.23N. R.1E. W.M.



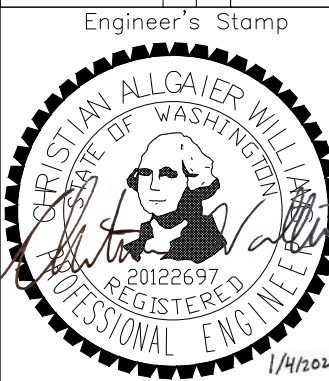
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- CONSTRUCTION NOTES:**
- INSTALL INLET PROTECTION PER WSDOT STD. PLAN I-40.20
 - SAWCUT
 - EXISTING UTILITY POLE TO BE RELOCATED BY OTHERS (PSE)
 - PROTECT AND MAINTAIN EXISTING UTILITY POLE
 - REMOVE EXISTING CURB AND GUTTER (INCL. IN ROADWAY EXCAVATION INCL. HAUL)
 - REMOVE EXISTING CURB (INCL. IN ROADWAY EXCAVATION INCL. HAUL)
 - PROTECT AND MAINTAIN EXISTING POWER PEDESTAL
 - REMOVE PAINT LINE
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 - REMOVE EXISTING SIDEWALK (INCL. IN ROADWAY EXCAVATION INCL. HAUL).
 - REMOVE PLASTIC TRAFFIC MARKING
 - EXISTING PEDESTAL TO BE RELOCATED BY OTHERS (CENTURYLINK)
 - PRESERVE AND PROTECT EXISTING SEPTIC DRAIN FIELD

- LEGEND:**
- ROADWAY EXCAVATION INCL. HAUL
 - PLANING BITUMINOUS PAVEMENT - 2"
 - SAWCUTTING



DATE	REVISION	TYPE	REVISIONS
		DESIGN'D	CHECK'D
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 Page 184 of 316

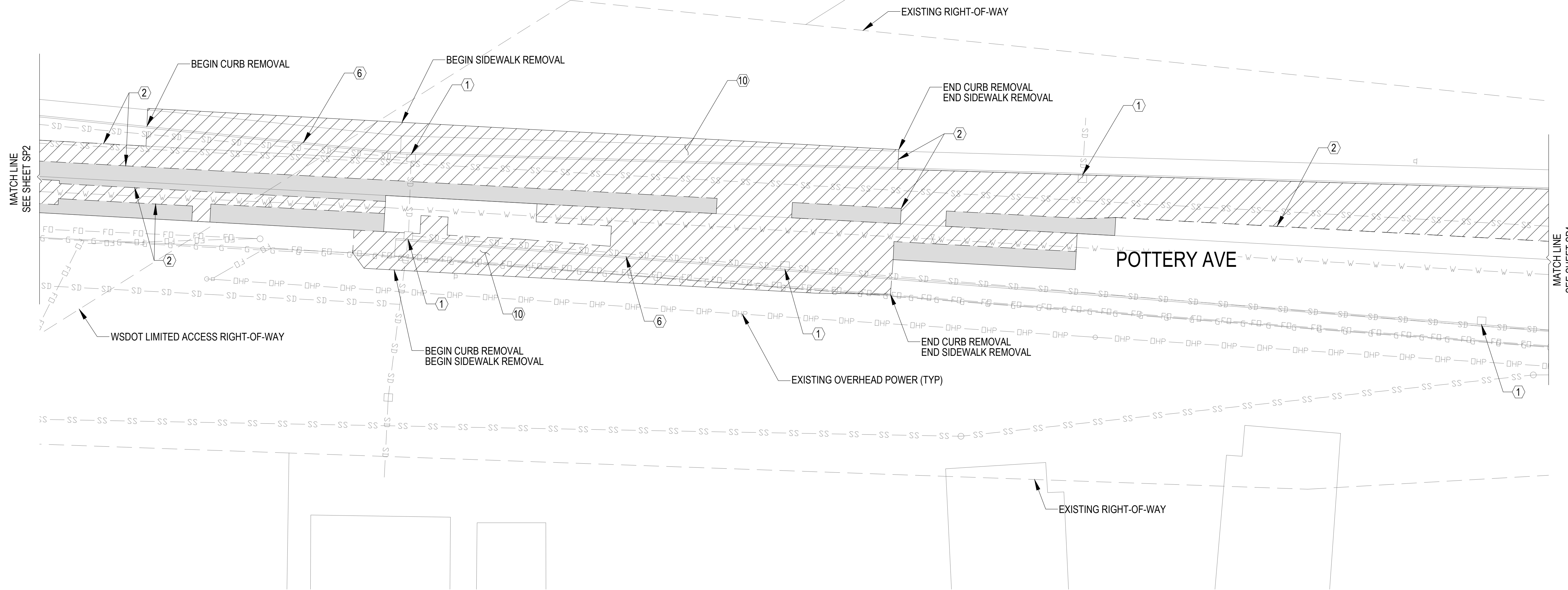


POTTERY AVE NON-MOTORIZED IMPROVEMENTS
 SITE PREPARATION AND TESC PLAN

PLAN NO.
SP2
 SHEET
 4 OF 45

SEC. 2 & 3 T.23N. R.1E. W.M.

SR 16



GENERAL NOTES:

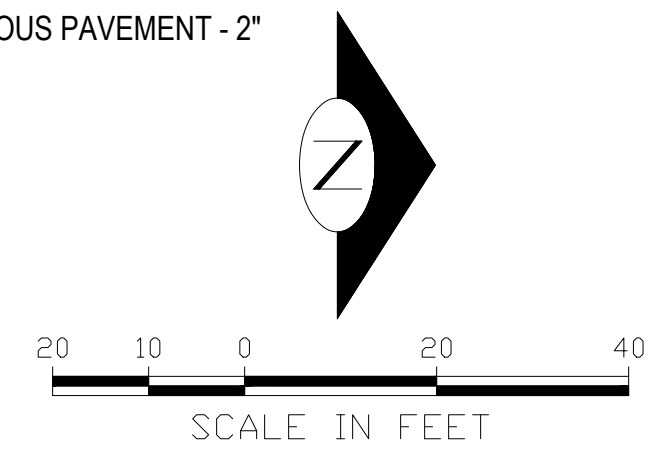
1. STORM DRAIN INLET PROTECTION PER WSDOT STD. PLAN I-40.20 SHALL BE INSTALLED ON ALL NEW CATCH BASINS AT THE TIME OF INSTALLATION AND IN ALL EXISTING CATCH BASINS BEFORE COMMENCING WORK PER THESE PLANS.
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18. HIGH VISIBILITY FENCE AND HIGH VISIBILITY SILT FENCE SHALL BE INSTALLED PER WSDOT STD. PLANS I-10.10 AND I-30.17 AS DIRECTED BY THE ENGINEER SEE DWG. GN1 FOR ADDITIONAL NOTES.
19. PRESERVE AND PROTECT EXISTING SEPTIC DRAIN FIELD

CONSTRUCTION NOTES:

- ① INSTALL INLET PROTECTION PER WSDOT STD. PLAN I-40.20
- ② SAWCUT
- ③ EXISTING UTILITY POLE TO BE RELOCATED BY OTHERS (PSE)
- ④ PROTECT AND MAINTAIN EXISTING UTILITY POLE
- ⑤ REMOVE EXISTING CURB AND GUTTER (INCL. IN ROADWAY EXCAVATION INCL. HAUL)
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- ⑨ REMOVE PLASTIC CROSSWALK LINE
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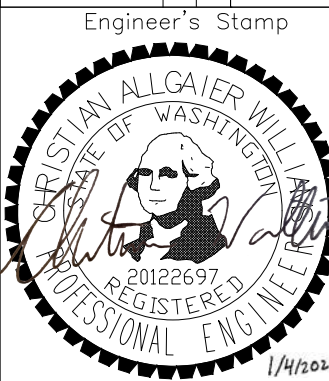
LEGEND:

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- SAWCUTTING



DATE	REVISION	TYPE	REVISIONS
		DESIGN	D
		CHECK	D
		REVIEW	D

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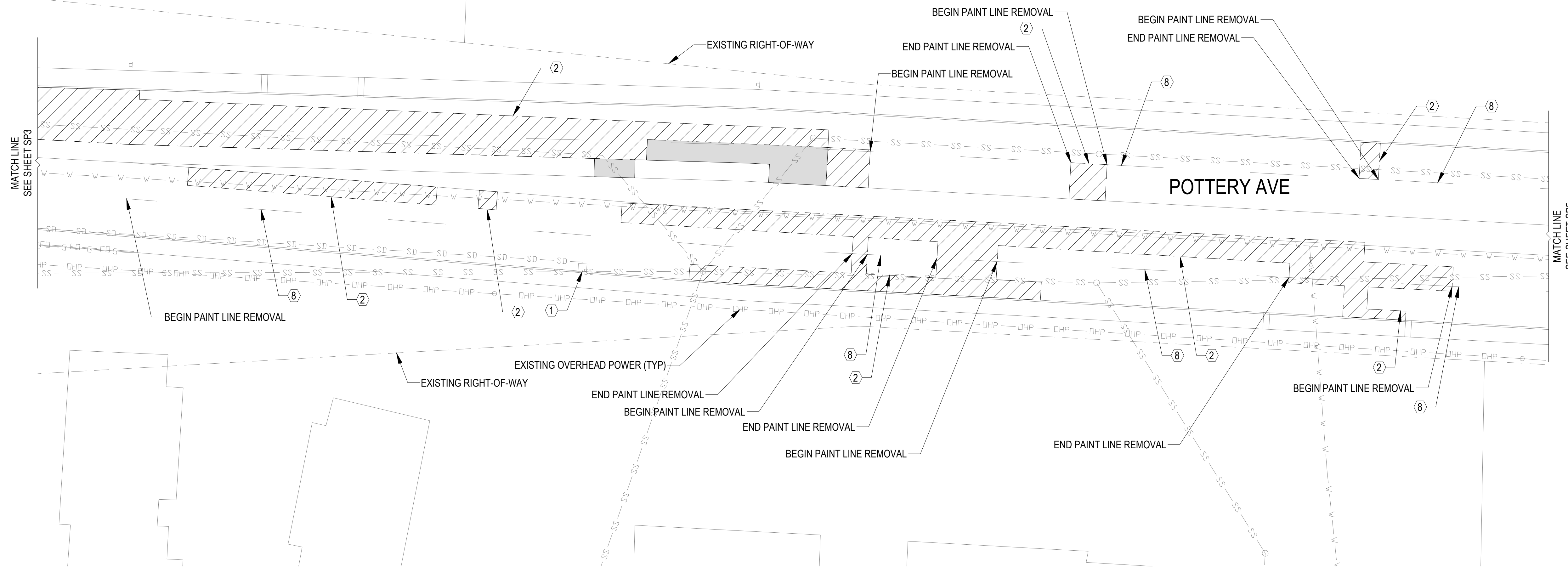


POTTERY AVE NON-MOTORIZED IMPROVEMENTS
 SITE PREPARATION AND TESC PLAN

PLAN NO.
SP3
 SHEET
 5 OF 45

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 Page 185 of 316

SEC. 2 & 3 T.23N. R.1E. W.M.



GENERAL NOTES:

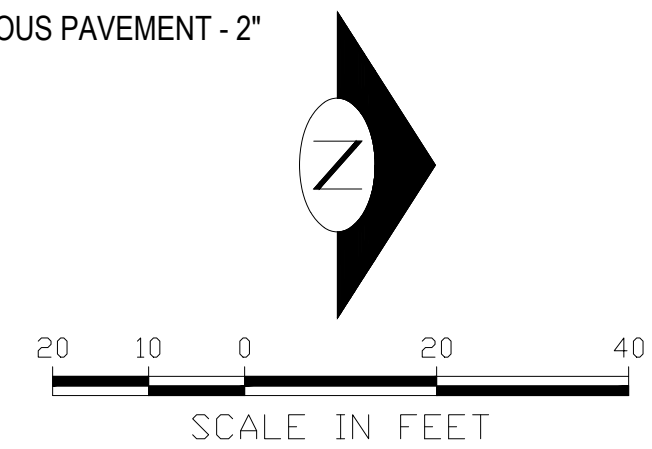
1. STORM DRAIN INLET PROTECTION PER WSDOT STD. PLAN I-40.20 SHALL BE INSTALLED ON ALL NEW CATCH BASINS AT THE TIME OF INSTALLATION AND IN ALL EXISTING CATCH BASINS BEFORE COMMENCING WORK PER THESE PLANS.
2. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN EXISTING HORIZONTAL AND VERTICAL INFORMATION REQUIRED TO PLACE CURB AND GUTTER IN THE CORRECT LOCATION.
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8. REMOVE EXISTING IRRIGATION HEADS, VALVES, AND ALL OTHER RELATED IRRIGATION EQUIPMENT AS NECESSARY FOR CONSTRUCTION WORK. CAP EXISTING IRRIGATION LINES AT RIGHT-OF-WAY LINE. IRRIGATION SHALL BE REINSTALLED AND DEEMED OPERATIONAL BY COPO MAINTENANCE PERSONNEL PRIOR TO PROJECT ACCEPTANCE.
9. ALL SIDEWALK MATCH-IN LOCATIONS SHALL PROVIDE A SAWCUT AT THE NEAREST JOINT.
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12. STORMWATER AND EROSION CONTROL BMP'S SHALL BE FOLLOWED IN ACCORDANCE WITH THE 2019 STORMWATER MANAGEMENT MANUAL FOR WESTERN WASHINGTON.
13. UTILITY TRENCHES SHALL CONFORM TO COPO STD. DETAIL 404. SEE UT PLANS FOR FURTHER INFORMATION.
14. CONTRACTOR SHALL PROTECT ALL SURVEY MONUMENTS AND SHALL COMPLY WITH RCW 58.09.130 AND WAC 332-120-040 IF ANY MONUMENT IS TO BE DISTURBED.
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16. EXISTING PAVEMENT MARKINGS AND SIGNS THAT CONFLICT WITH THE CHANNELIZATION AND SIGNING PLAN SHALL BE REMOVED. SEE CH PLANS FOR SIGN REMOVALS.
17. SEE UT PLANS FOR UTILITY RELATED REMOVALS.
18. HIGH VISIBILITY FENCE AND HIGH VISIBILITY SILT FENCE SHALL BE INSTALLED PER WSDOT STD. PLANS I-10.10 AND I-30.17 AS DIRECTED BY THE ENGINEER SEE DWG. GN1 FOR ADDITIONAL NOTES..
19. PRESERVE AND PROTECT EXISTING SEPTIC DRAIN FIELD

CONSTRUCTION NOTES:

- ① INSTALL INLET PROTECTION PER WSDOT STD. PLAN I-40.20
- ② SAWCUT
- ③ EXISTING UTILITY POLE TO BE RELOCATED BY OTHERS (PSE)
- ④ PROTECT AND MAINTAIN EXISTING UTILITY POLE
- ⑤ REMOVE EXISTING CURB AND GUTTER (INCL. IN ROADWAY EXCAVATION INCL. HAUL)
- ⑥ REMOVE EXISTING CURB (INCL. IN ROADWAY EXCAVATION INCL. HAUL)
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- ⑧ REMOVE PAINT LINE
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- ⑩ REMOVE EXISTING SIDEWALK (INCL. IN ROADWAY EXCAVATION INCL. HAUL).
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- ⑬ PRESERVE AND PROTECT EXISTING SEPTIC DRAIN FIELD

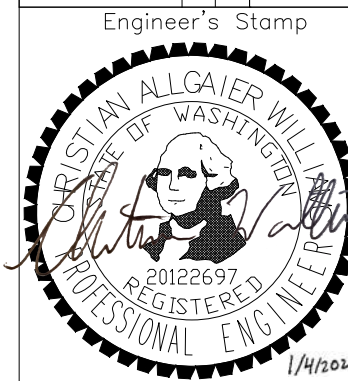
LEGEND:

- ROADWAY EXCAVATION INCL. HAUL
- PLANING BITUMINOUS PAVEMENT - 2"
- SAWCUTTING



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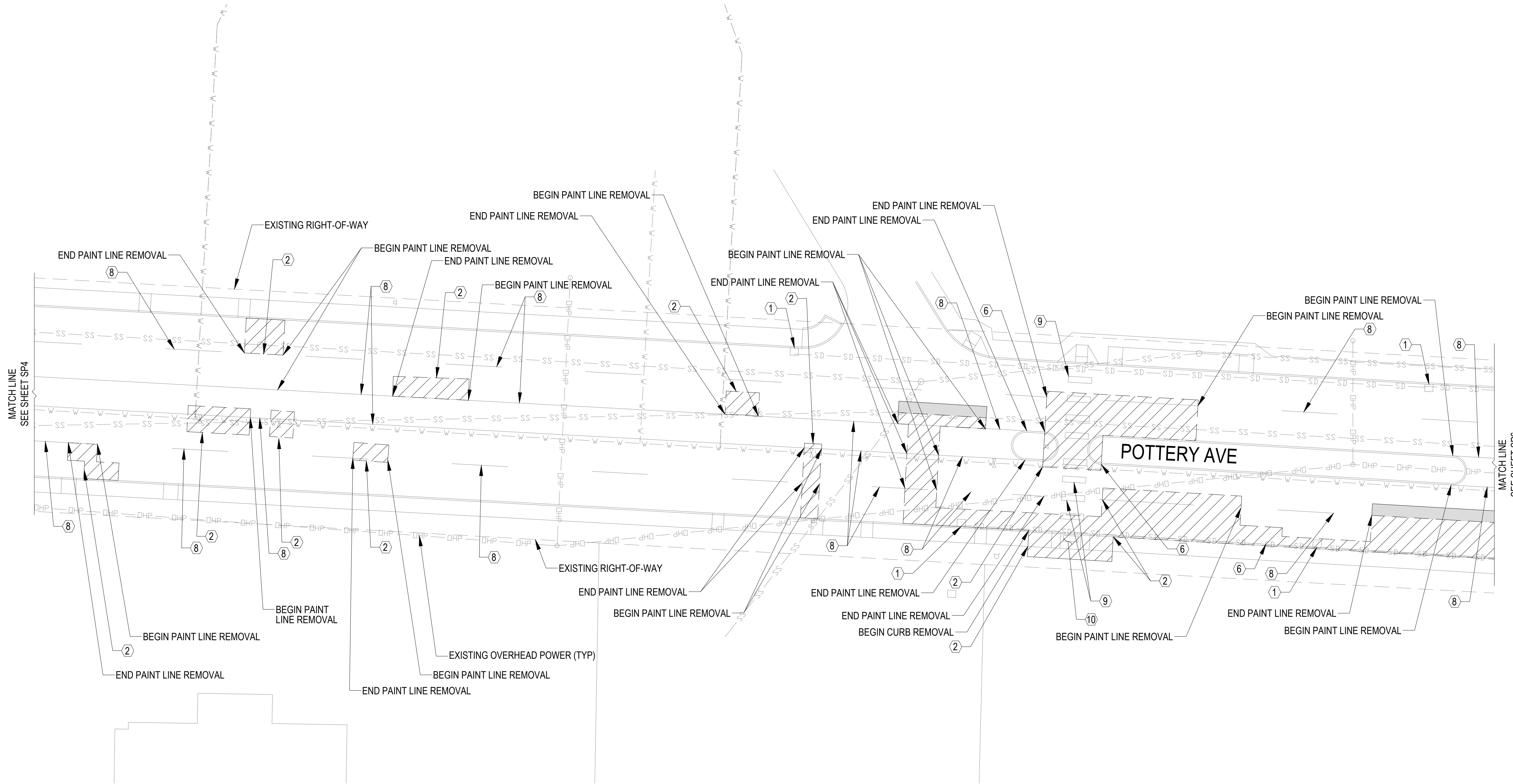


POTTERY AVE NON-MOTORIZED IMPROVEMENTS
 SITE PREPARATION AND TESC PLAN

PLAN NO.
SP4
 SHEET
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SEC. 2 & 3 T.23N. R.1E. W.M.



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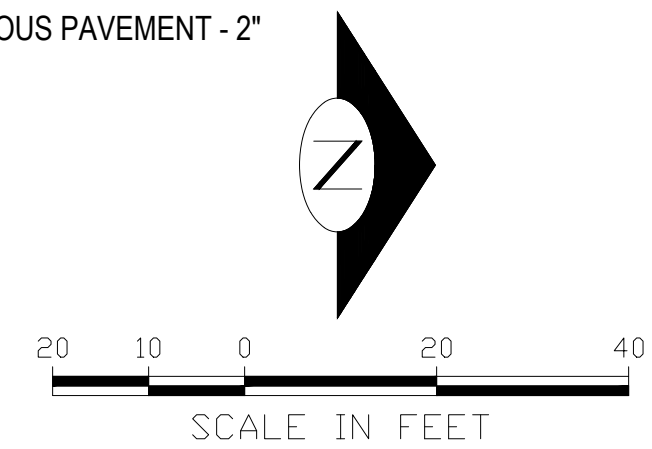
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LEGEND:

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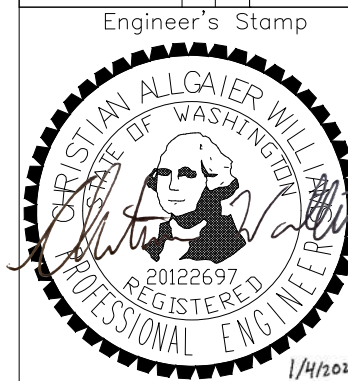


POTTERY AVE NON-MOTORIZED IMPROVEMENTS

SITE PREPARATION AND TESC PLAN

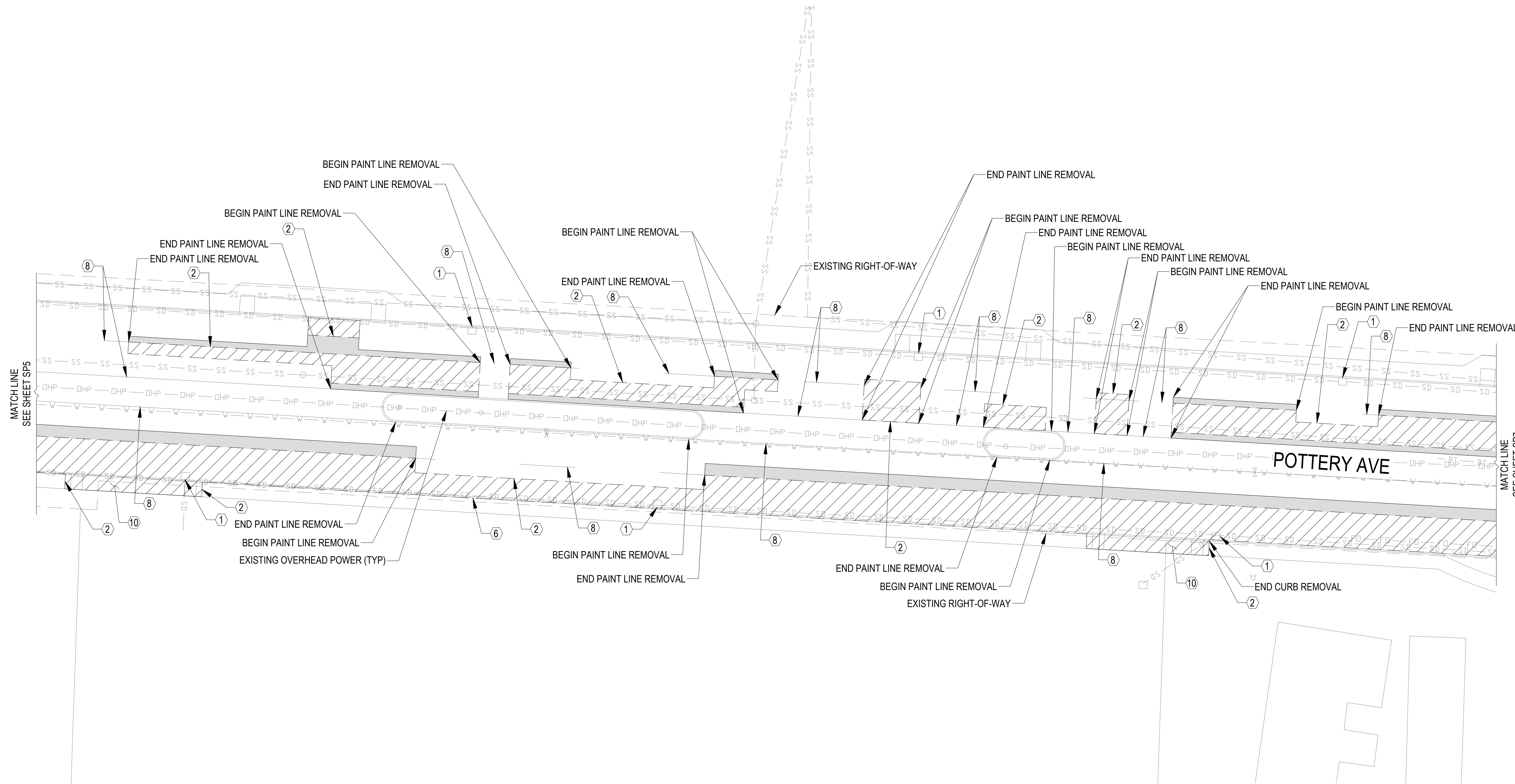
PLAN NO.
SP5

SHEET
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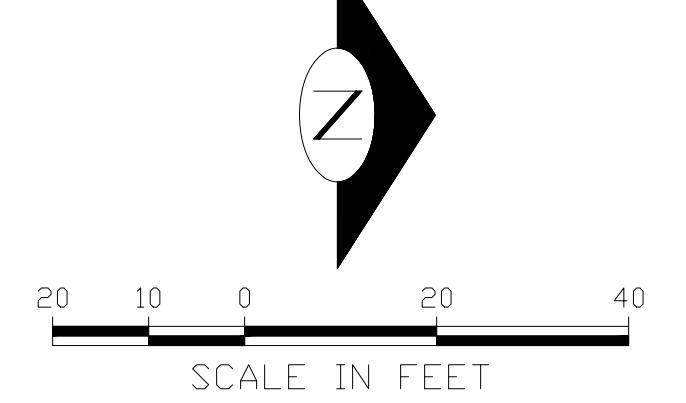
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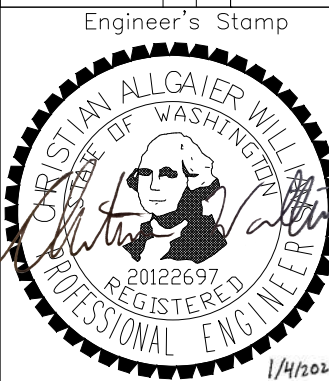
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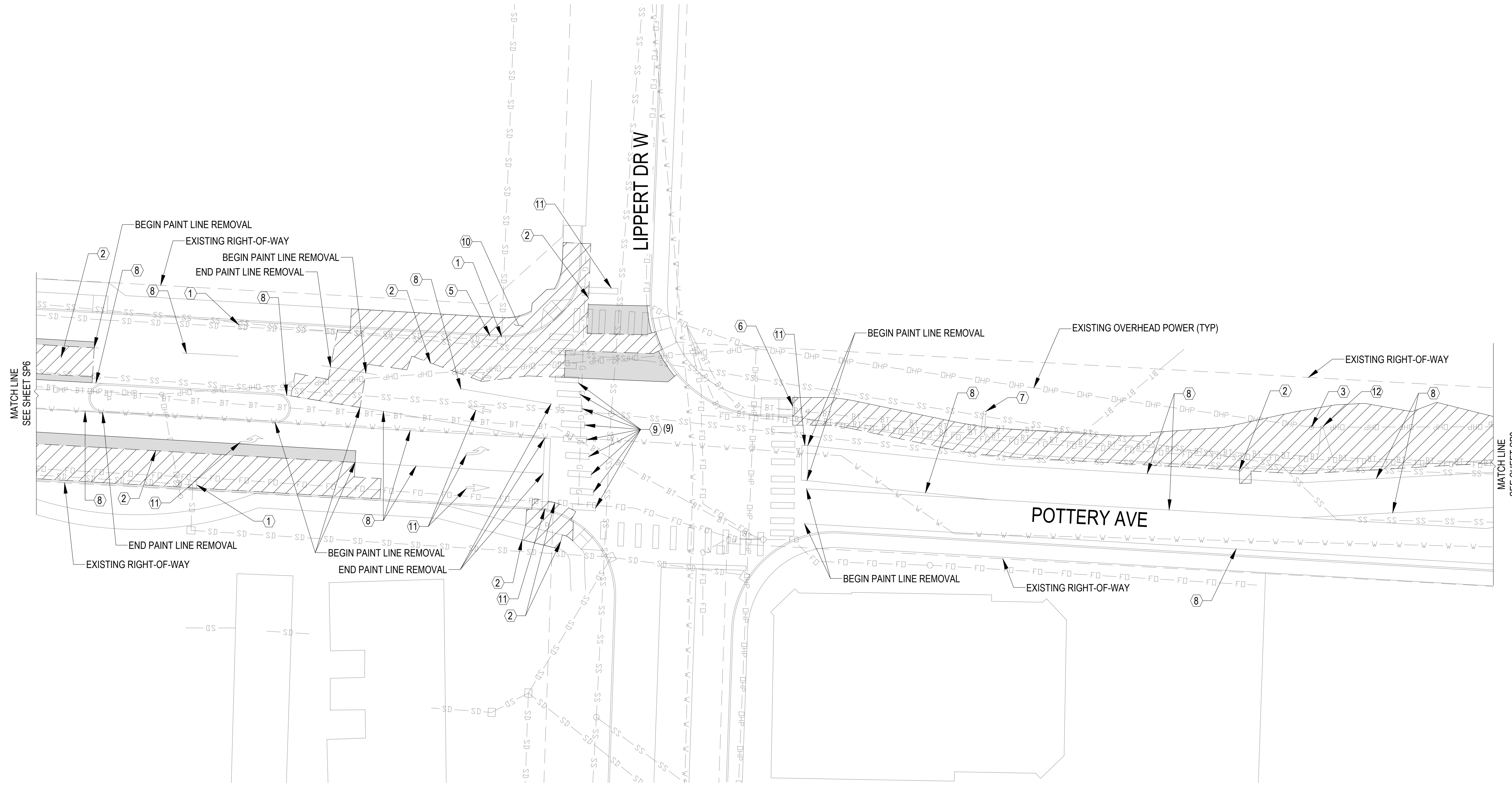
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POTTERY AVE NON-MOTORIZED IMPROVEMENTS
 SITE PREPARATION AND TESC PLAN

PLAN NO.
SP6
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 8 OF 45

SEC. 2 & 3 T.23N. R.1E. W.M.

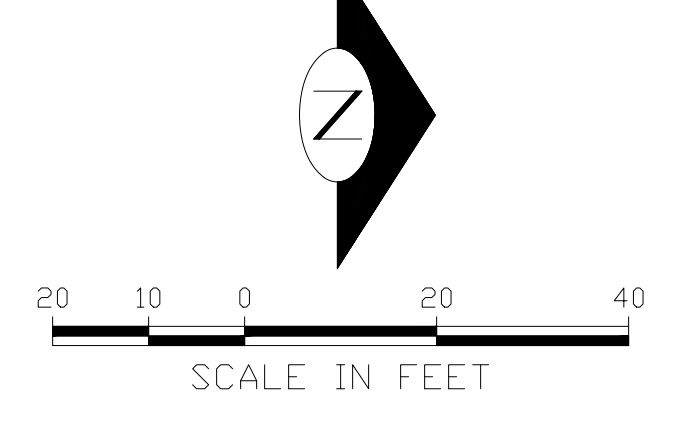


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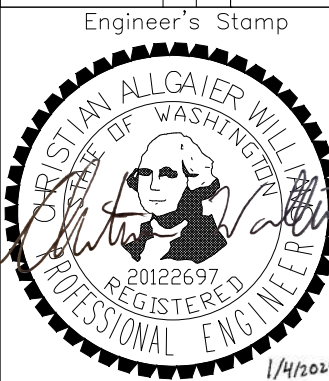
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POTTERY AVE NON-MOTORIZED IMPROVEMENTS
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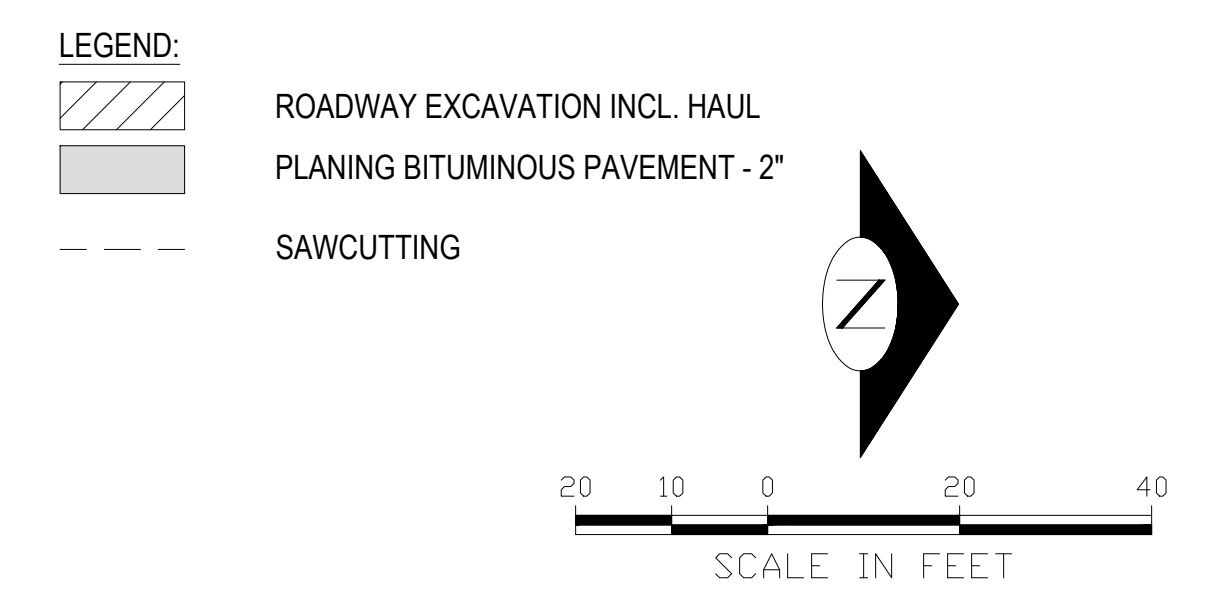
PLAN NO.
SP7
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SEC. 2 & 3 T.23N. R.1E. W.M. & SEC. 34 & 35 T.24N. R.1E. W.M.



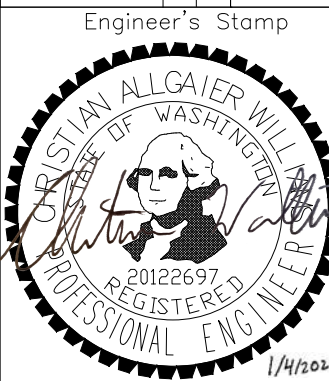
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DRAWN	CAW OCT 2023	
CHECKED	KCH OCT 2023	REVISED AS-BUILT

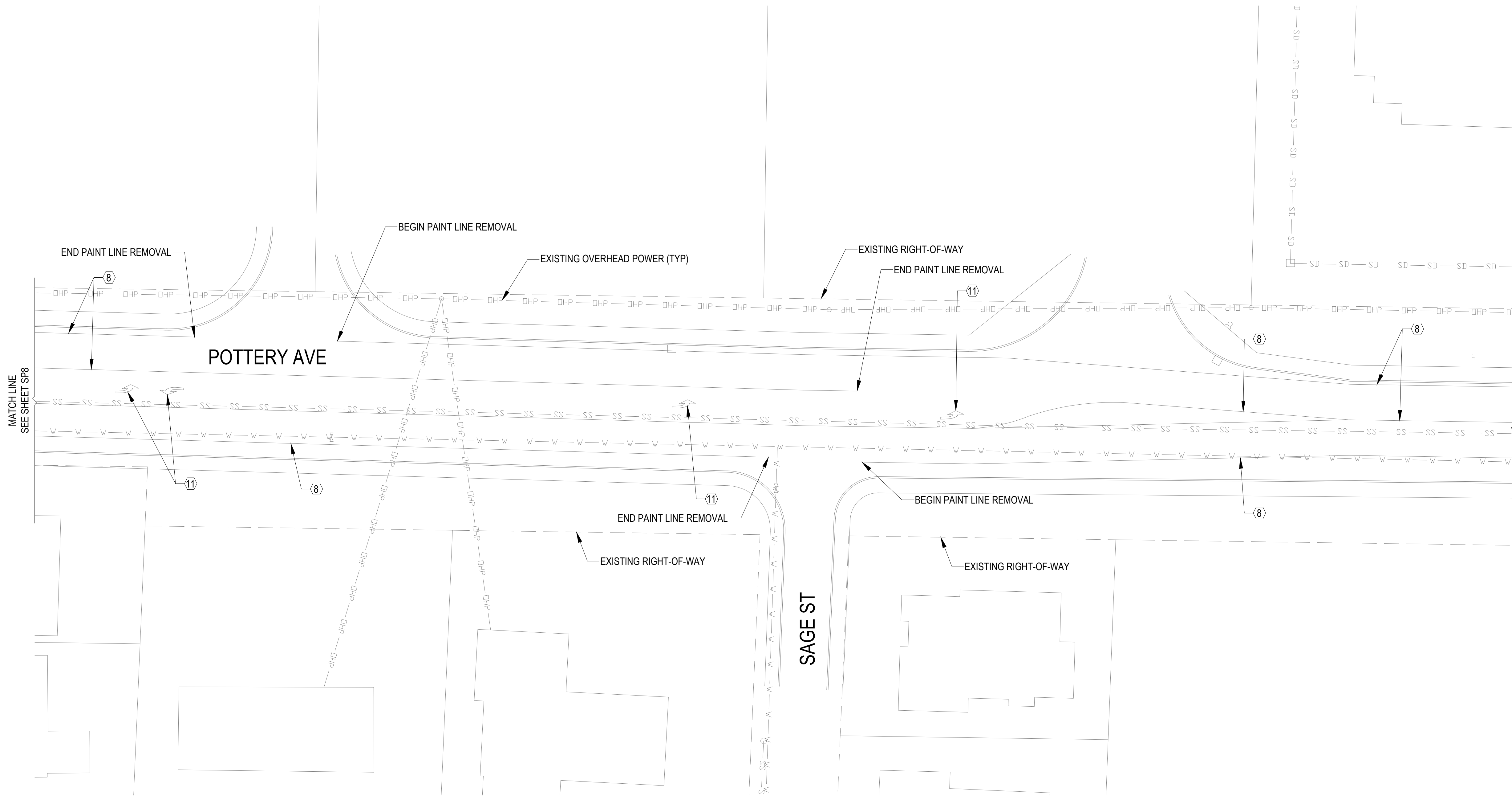


POTTERY AVE NON-MOTORIZED IMPROVEMENTS
 SITE PREPARATION AND TESC PLAN

PLAN NO.
SP8
 SHEET
 10 OF 45

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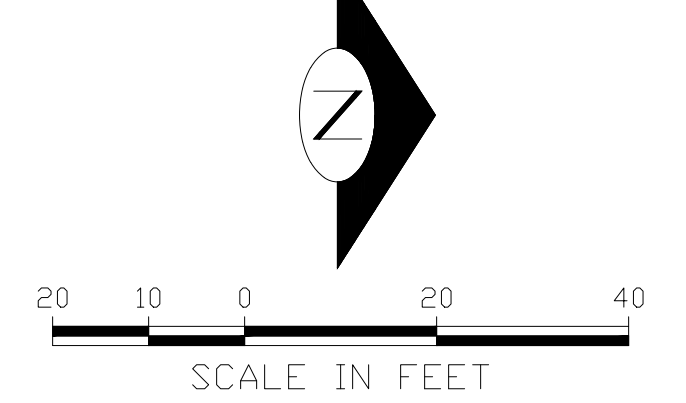
SEC. 34 & 35 T.24N. R.1E. W.M.



- GENERAL NOTES:**
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 - CLEARING AND GRUBBING LIMITS SHALL INCLUDE ALL NON-HARDSCAPED LOCATIONS BETWEEN THE EXISTING EDGE OF PAVEMENT AND THE DAYLIGHT WITH EXISTING GROUND. THE LIMITS MAY EXTEND TO THE RIGHT-OF-WAY, OR AS DIRECTED BY THE ENGINEER. TREES WITHIN THE CLEARING AND GRUBBING LIMITS SHALL BE PROTECTED UNLESS SHOWN ON THE PLANS AS TO BE REMOVED.
 - TREES AND THEIR ROOT STRUCTURES SHALL BE REMOVED IN A MANNER THAT IS NOT DESTRUCTIVE TO THE TREES THAT ARE TO REMAIN. THE CONTRACTOR SHALL KEEP A MINIMUM 4 FOOT WIDE ACCESSIBLE PATHWAY AT ALL TIMES THROUGH THE SITE OR AS DIRECTED BY THE ENGINEER.
 - ADDITIONAL SAWCUT MAY BE REQUIRED FOR UTILITIES AND/OR PAVING WORK.
 - ALL ITEMS SHALL BE PROTECTED AND MAINTAINED UNLESS OTHERWISE NOTED.
 - REMOVE EXISTING IRRIGATION HEADS, VALVES, AND ALL OTHER RELATED IRRIGATION EQUIPMENT AS NECESSARY FOR CONSTRUCTION WORK. CAP EXISTING IRRIGATION LINES AT RIGHT-OF-WAY LINE. IRRIGATION SHALL BE REINSTALLED AND DEEMED OPERATIONAL BY COPO MAINTENANCE PERSONNEL PRIOR TO PROJECT ACCEPTANCE.
 - ALL SIDEWALK MATCH-IN LOCATIONS SHALL PROVIDE A SAWCUT AT THE NEAREST JOINT.
 - CONTRACTOR SHALL COORDINATE WITH KITSAP TRANSIT ON TEMPORARY BUS STOP LOCATIONS A MINIMUM OF 5 BUSINESS DAYS PRIOR TO BUS STOP IMPACTS.
 - CONSTRUCTION ENTRANCE SHALL BE INSTALLED PER WSDOT STD. PLAN I-80.10.
 - STORMWATER AND EROSION CONTROL BMP'S SHALL BE FOLLOWED IN ACCORDANCE WITH THE 2019 STORMWATER MANAGEMENT MANUAL FOR WESTERN WASHINGTON.
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 - EXISTING PAVEMENT MARKINGS AND SIGNS THAT CONFLICT WITH THE CHANNELIZATION AND SIGNING PLAN SHALL BE REMOVED. SEE CH PLANS FOR SIGN REMOVALS.
 - SEE UT PLANS FOR UTILITY RELATED REMOVALS.
 - HIGH VISIBILITY FENCE AND HIGH VISIBILITY SILT FENCE SHALL BE INSTALLED PER WSDOT STD. PLANS I-10.10 AND I-30.17 AS DIRECTED BY THE ENGINEER. SEE DWG. GN1 FOR ADDITIONAL NOTES.

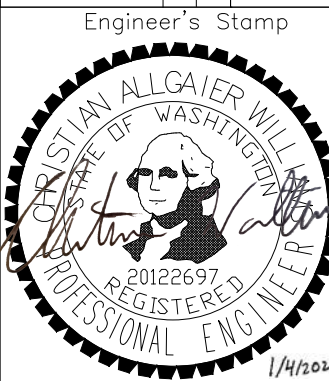
- CONSTRUCTION NOTES:**
- INSTALL INLET PROTECTION PER WSDOT STD. PLAN I-40.20
 - SAWCUT
 - EXISTING UTILITY POLE TO BE RELOCATED BY OTHERS (PSE)
 - PROTECT AND MAINTAIN EXISTING UTILITY POLE
 - REMOVE EXISTING CURB AND GUTTER (INCL. IN ROADWAY EXCAVATION INCL. HAUL)
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 - REMOVE PLASTIC TRAFFIC MARKING
 - EXISTING PEDESTAL TO BE RELOCATED BY OTHERS (CENTURYLINK)
 - PRESERVE AND PROTECT EXISTING SEPTIC DRAIN FIELD

- LEGEND:**
- ROADWAY EXCAVATION INCL. HAUL
 - PLANING BITUMINOUS PAVEMENT - 2"
 - SAWCUTTING



DESIGN'D	CHECK'D	REVIEW'D
REVISION	TYPE	REVISIONS
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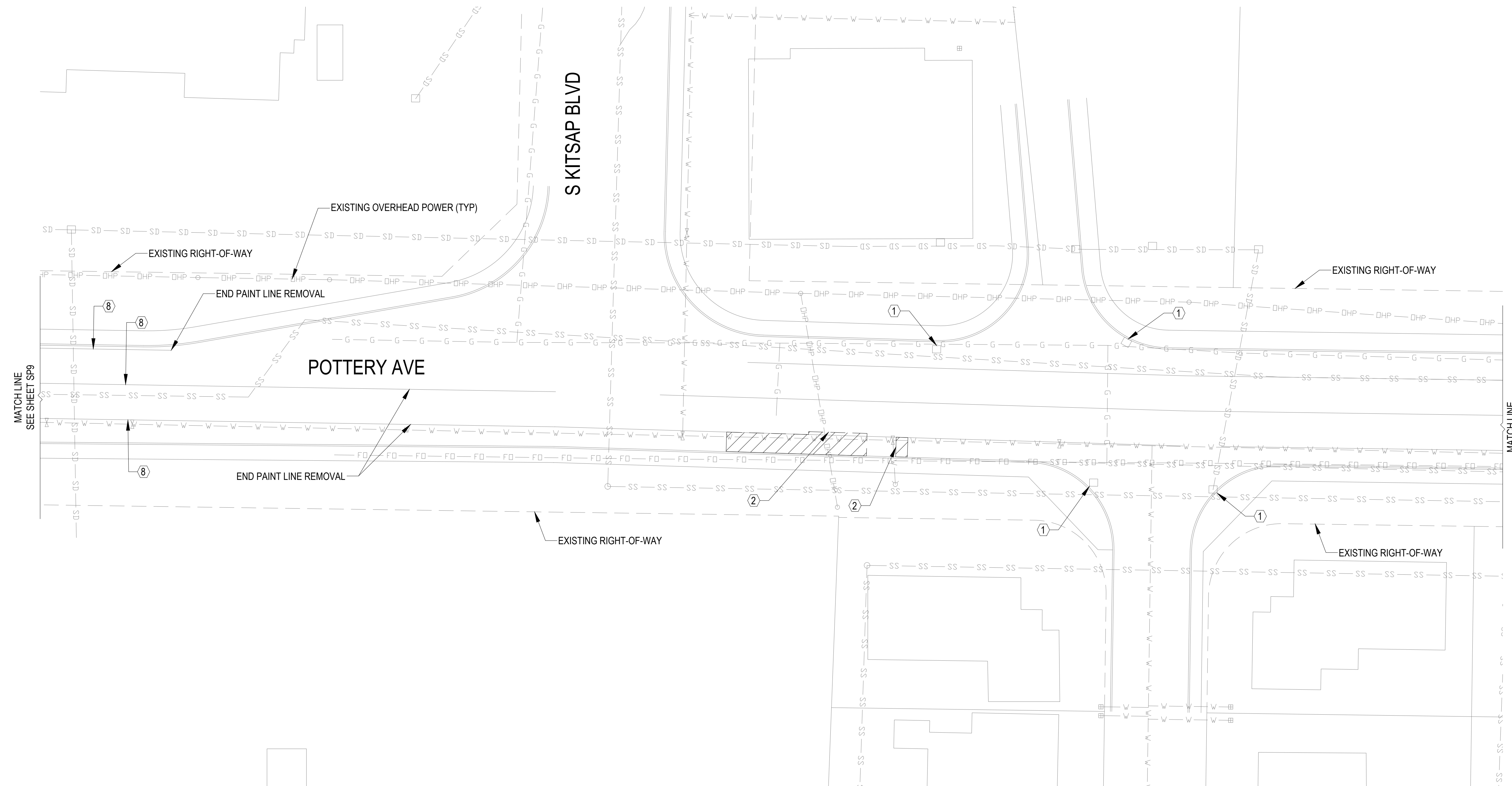
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POTTERY AVE NON-MOTORIZED IMPROVEMENTS
 SITE PREPARATION AND TESC PLAN

PLAN NO.
SP9
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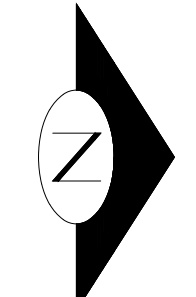
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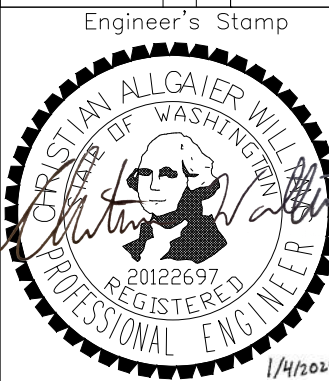
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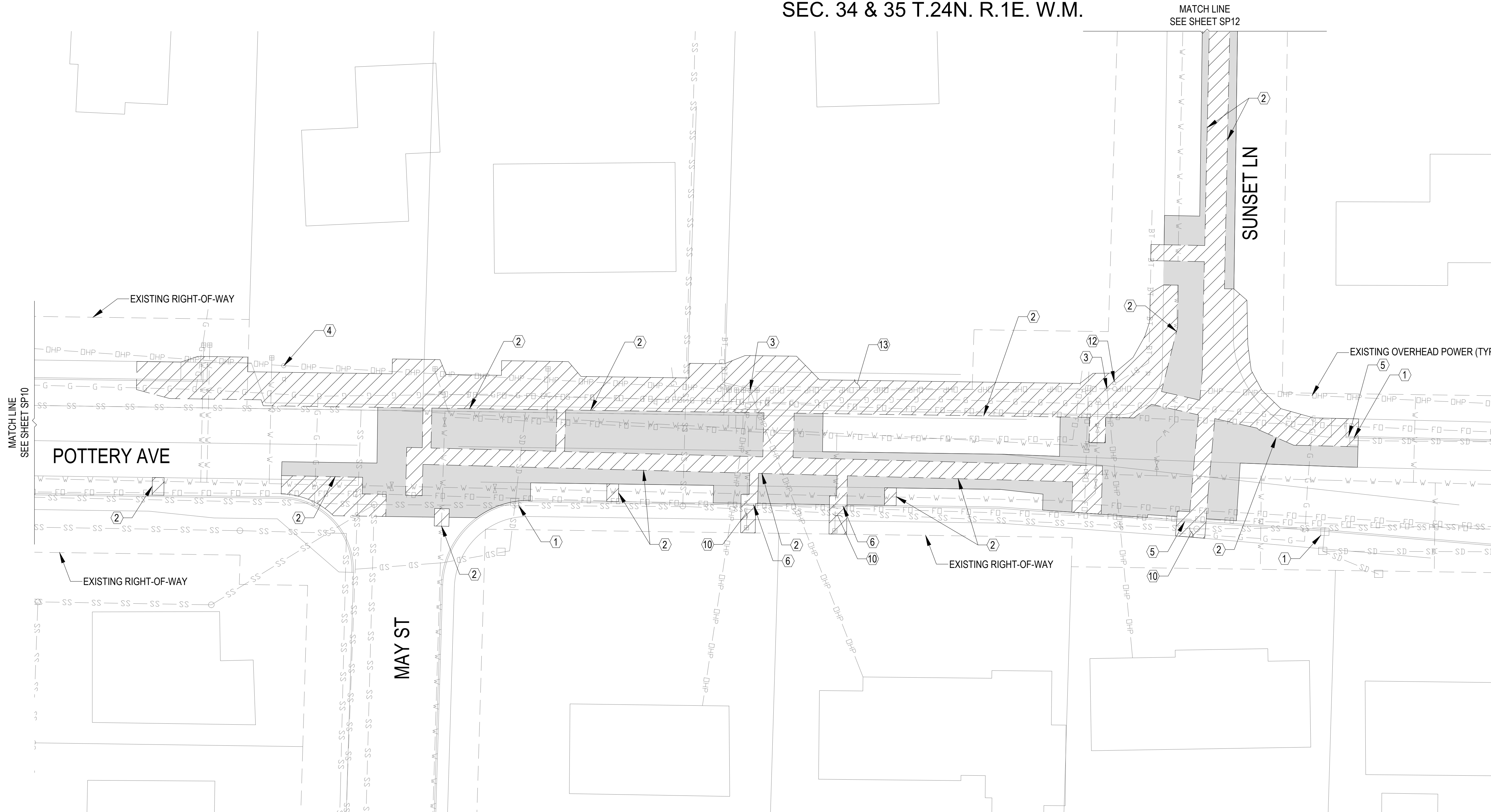


POTTERY AVE NON-MOTORIZED IMPROVEMENTS
 SITE PREPARATION AND TESC PLAN

PLAN NO.
SP10
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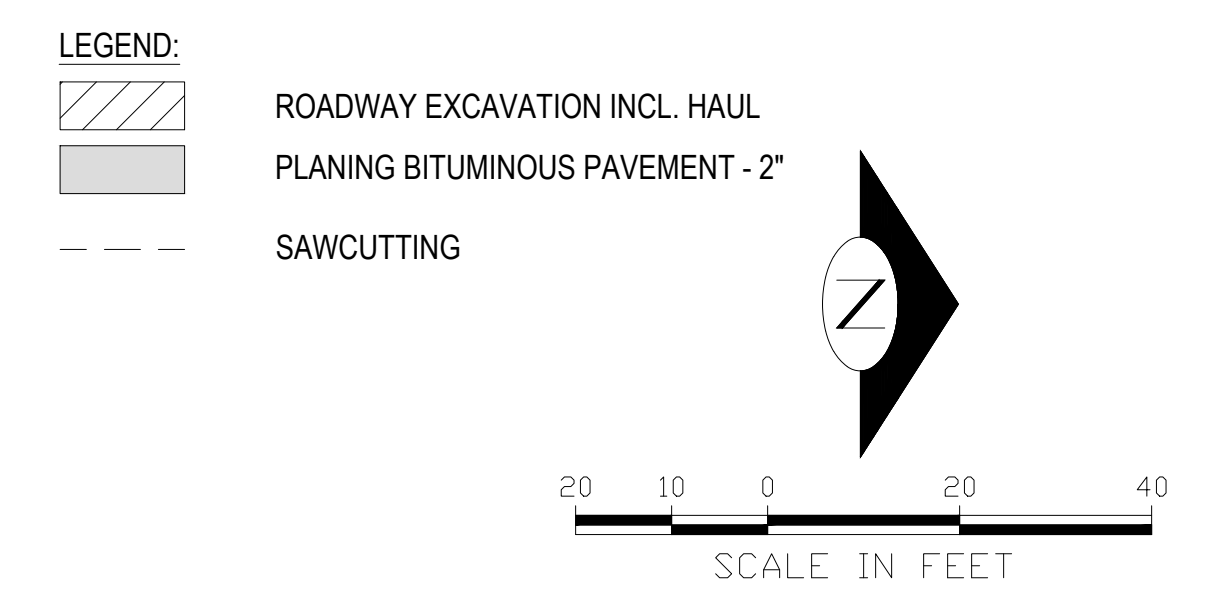
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SEC. 34 & 35 T.24N. R.1E. W.M.



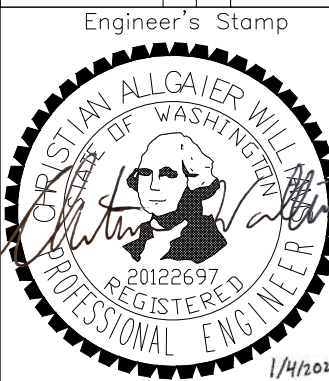
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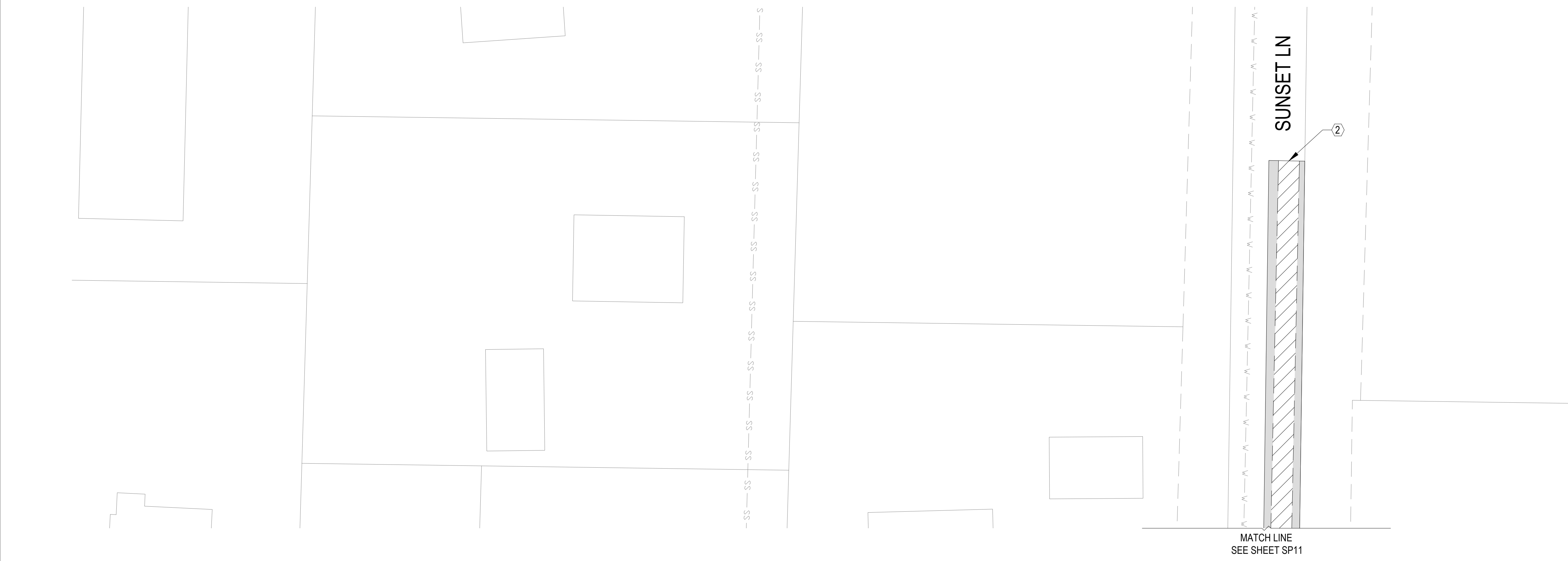


POTTERY AVE NON-MOTORIZED IMPROVEMENTS
 SITE PREPARATION AND TESC PLAN

PLAN NO.
SP11
 SHEET
 13 OF 45

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 Page 193 of 316

SEC. 34 T.24N. R.1E. W.M.



GENERAL NOTES:

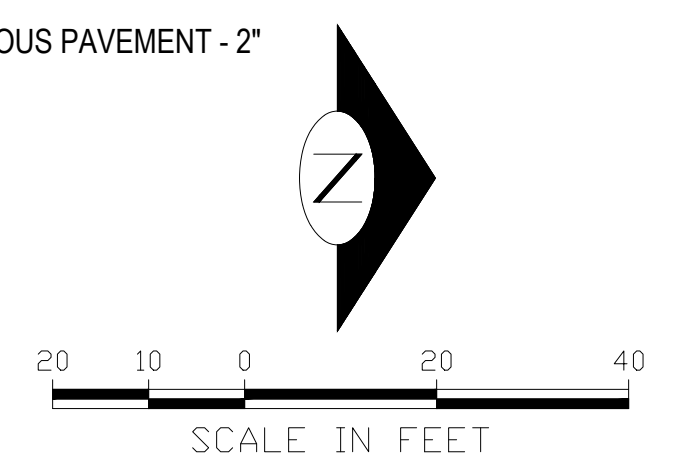
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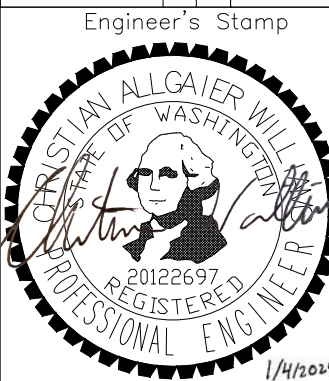
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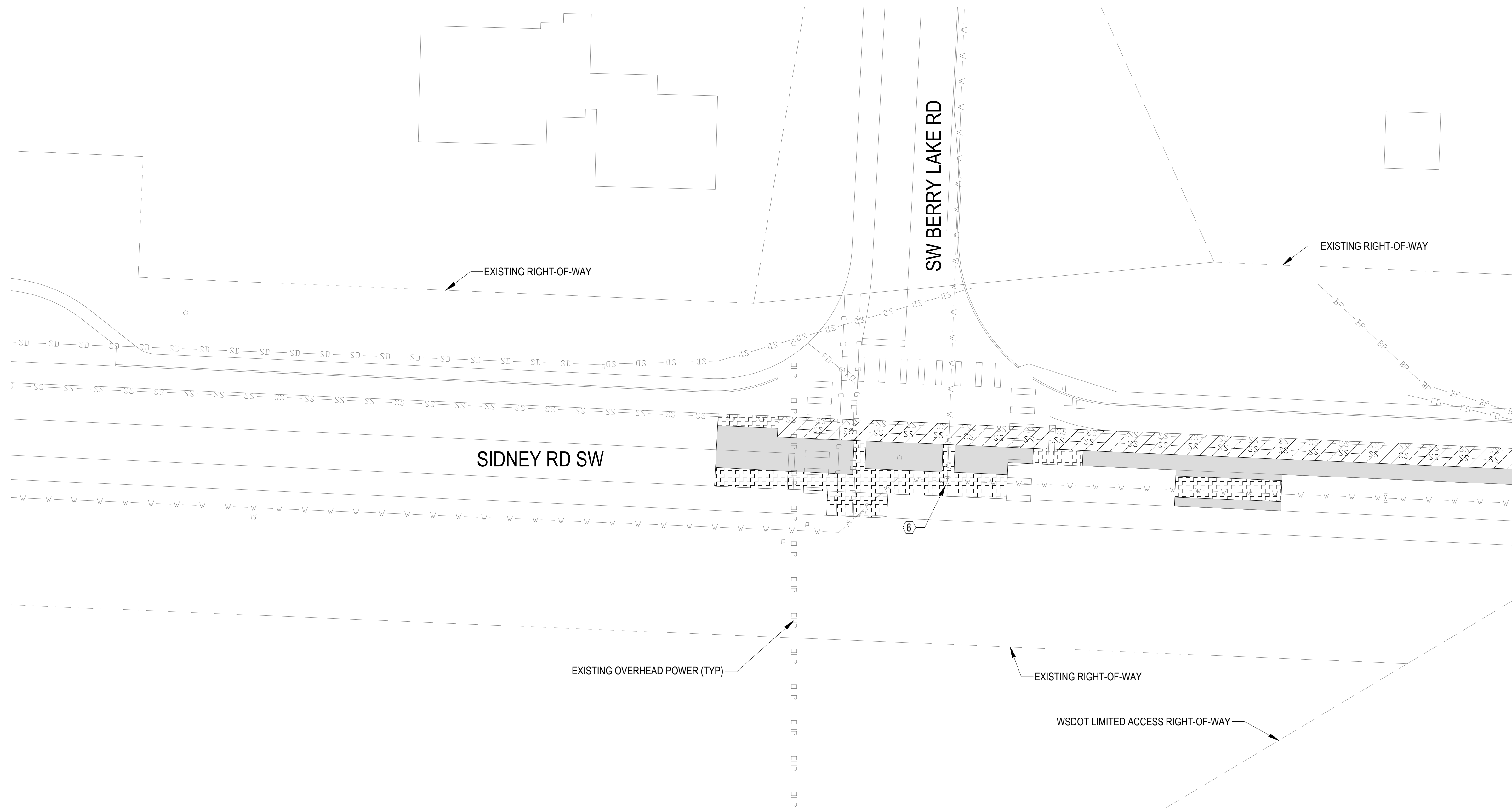
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POTTERY AVE NON-MOTORIZED IMPROVEMENTS
 SITE PREPARATION AND TESC PLAN

PLAN NO.
SP12
 SHEET
 14 OF 45

SEC. 2 & 3 T.23N. R.1E. W.M.



GENERAL NOTES:

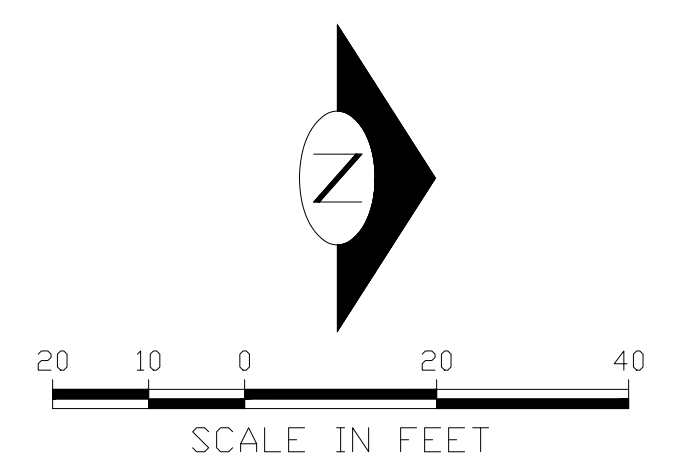
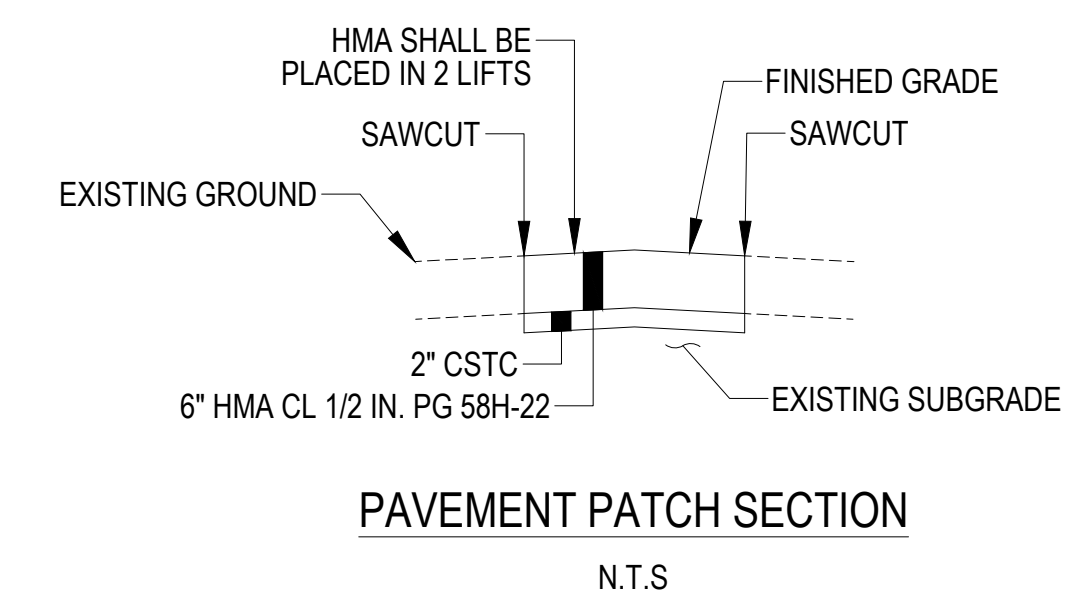
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4. ALL SIDEWALKS SHALL MATCH INTO EXISTING AT THE NEAREST JOINT.
5. CONTRACTOR SHALL CRACK SEAL ALL PAVEMENT CRACKS IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.
6. SEE UT PLANS FOR UTILITY INFORMATION AND TRENCH DETAILS.
7. ALL UTILITIES SHALL BE ADJUSTED TO FINISHED GRADE UNLESS NOTED OTHERWISE.
8. SEE DWG. GN1 FOR ADDITIONAL NOTES.
9. ALL AREAS TO BE SEEDED AND FERTILIZED SHALL RECEIVE AN APPLICATION OF TOPSOIL AT A DEPTH OF 4" AND COMPOST AT A DEPTH OF 2". ALL SEEDING, FERTILIZING, AND MULCHING SHALL BE COMPLETED BY HYDROSEEDING.

CONSTRUCTION NOTES:

- ① ASPHALT TRANSITION RAMP
- ② INSTALL CEMENT CONC. DRIVEWAY ENTRANCE TYPE 1 PER WSDOT STD. PLAN F-80.10
- ③ INSTALL CEMENT CONC. CURB RAMP TYPE PERPENDICULAR A PER WSDOT STD. PLAN F-40.15
- ④ INSTALL CEMENT CONC. CURB RAMP TYPE PARALLEL A PER WSDOT STD. PLAN F-40.12
- ⑤ INSTALL CEMENT CONC. TRAFFIC CURB AND GUTTER PER COPO STD. PLAN 300
- ⑥ ADJUST VALVE BOX TO GRADE
- ⑦ ADJUST CATCH BASIN TO GRADE
- ⑧ ADJUST MANHOLE TO GRADE
- ⑨ INSTALL CEMENT CONC. TRAFFIC CURB PER WSDOT STD. PLAN F-10.12
- ⑩ PROVIDE AND INSTALL RRFB AND RELATED ELEMENTS PER MANUFACTURER'S REQUIREMENTS, SPECIAL PROVISIONS, AND DETAIL ON DWG. MD2
- ⑪ INSTALL ASPHALT TRANSITION RAMP CONFORMING TO ADA REQUIREMENTS
- ⑫ CEMENT CONC. PEDESTRIAN CURB PER COPO STD. PLAN 301
- ⑬ INSTALL ROCKERY PER DETAIL ON DWG. MD1

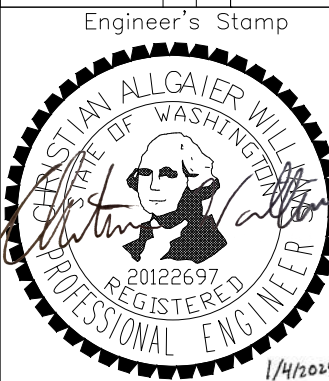
LEGEND:

- 6" HMA CL. 1/2 IN. PG 58H-22 OVER 8" CSTC
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- DETECTABLE WARNING SURFACE PER COPO STD. PLAN 341
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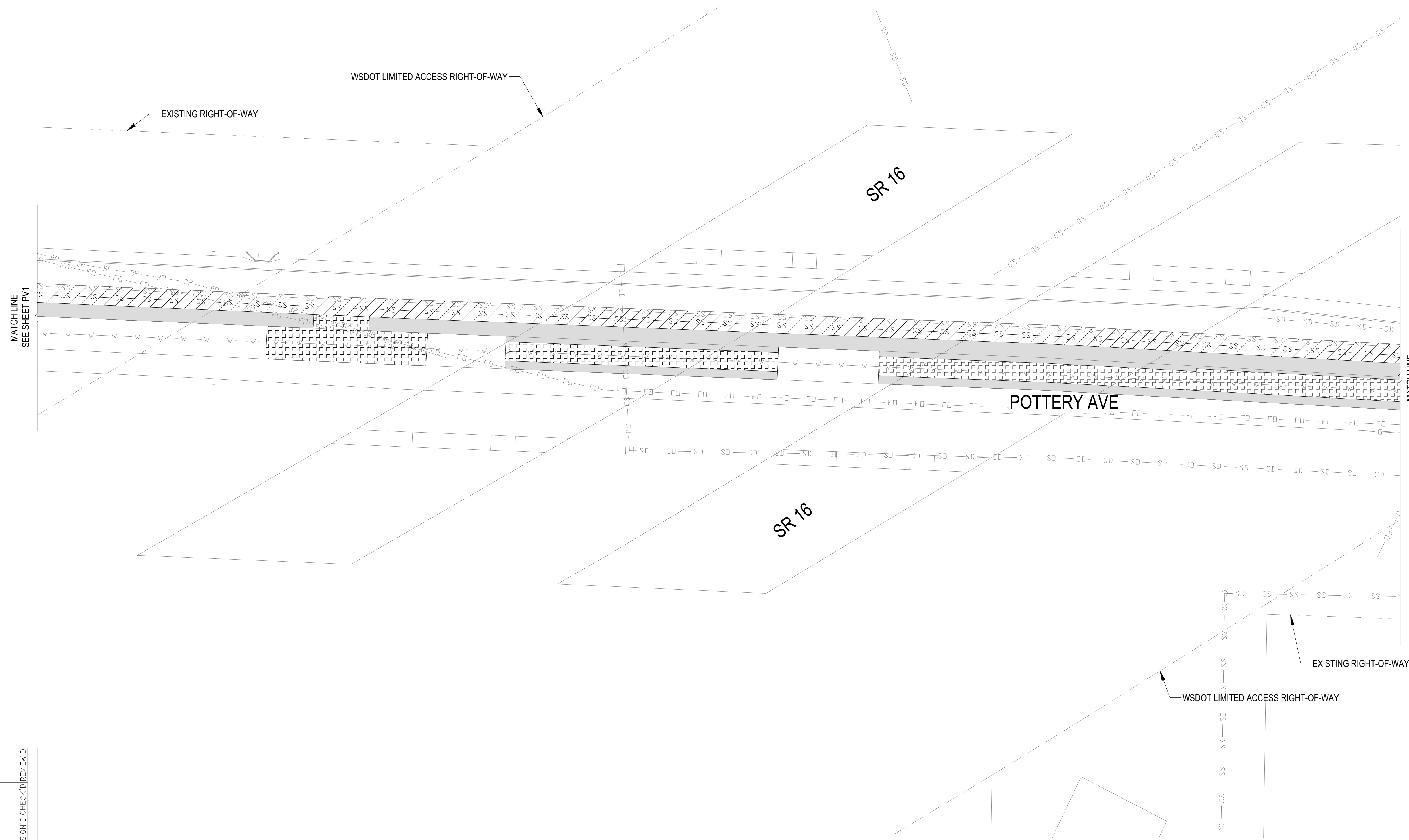
POTTERY AVE NON-MOTORIZED IMPROVEMENTS

PAVING PLAN

PLAN NO.
PV1
 SHEET
 15 OF 45

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 Page 195 of 316

SEC. 2 & 3 T.23N. R.1E. W.M.



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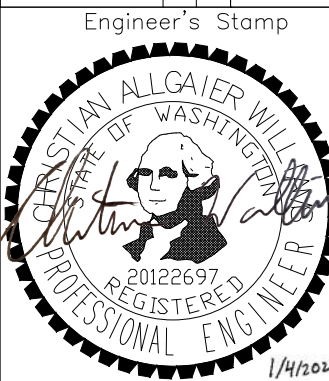
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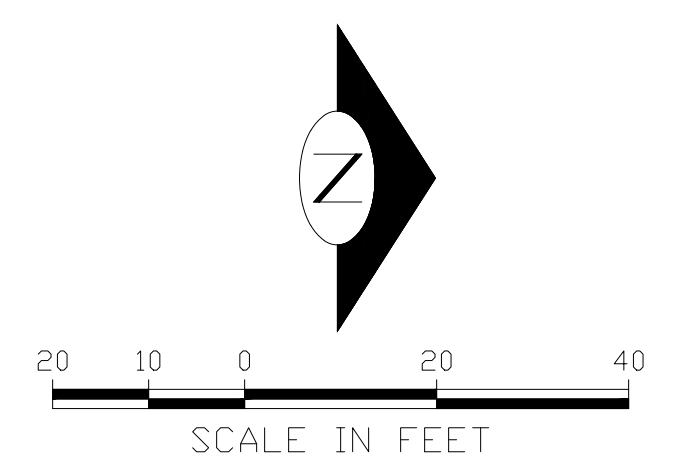
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POTTERY AVE NON-MOTORIZED IMPROVEMENTS

PAVING PLAN



PLAN NO.
PV2
 SHEET
 16 OF 45

SEC. 2 & 3 T.23N. R.1E. W.M.

GENERAL NOTES:

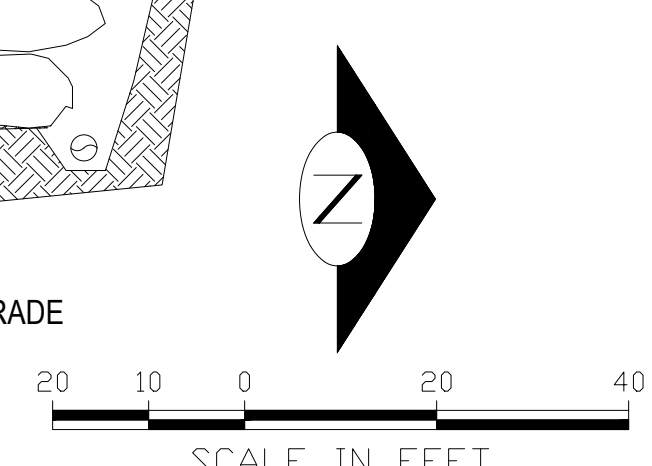
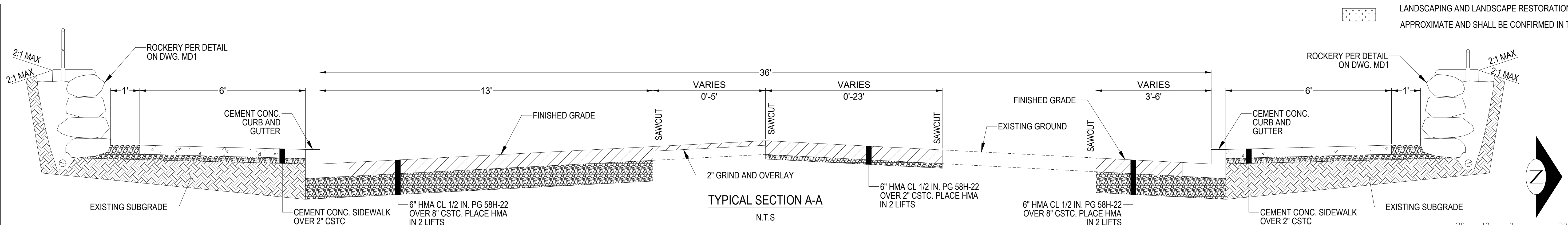
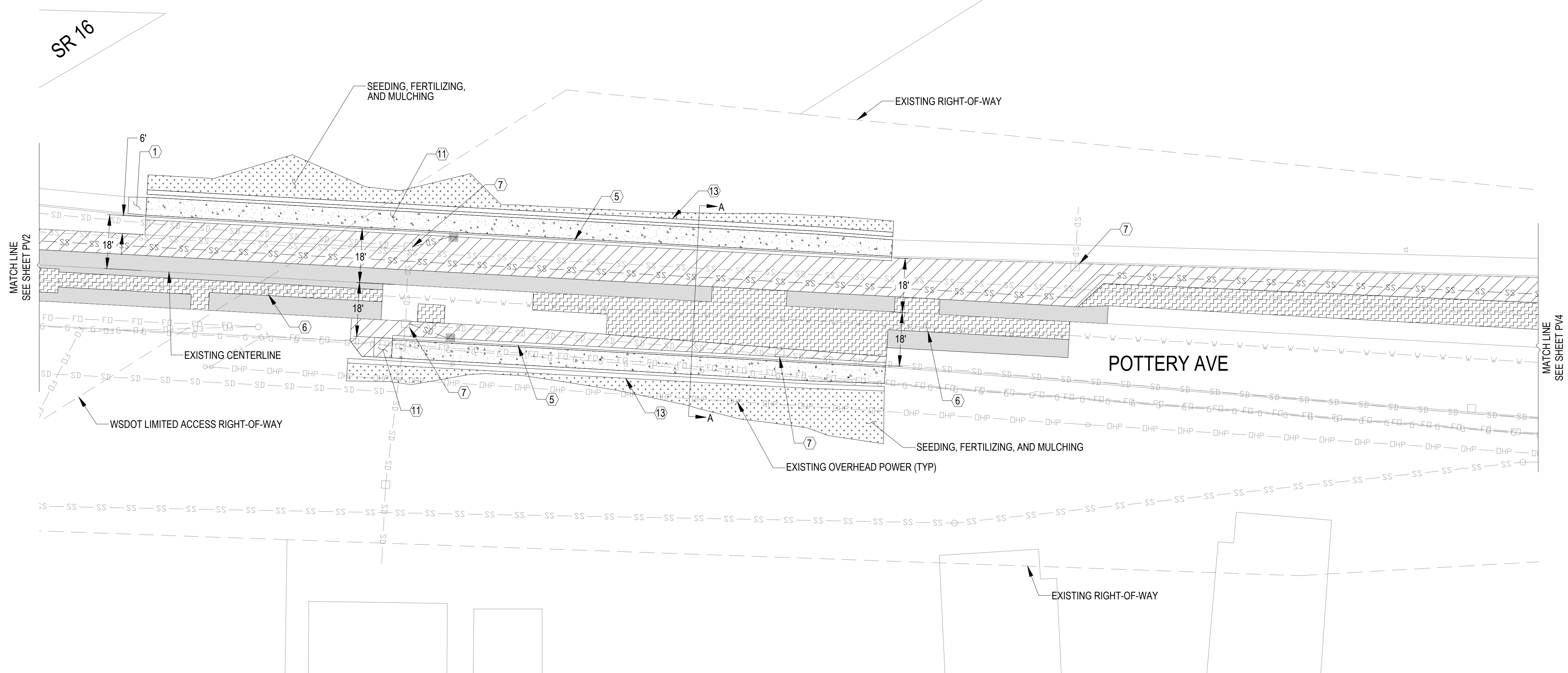
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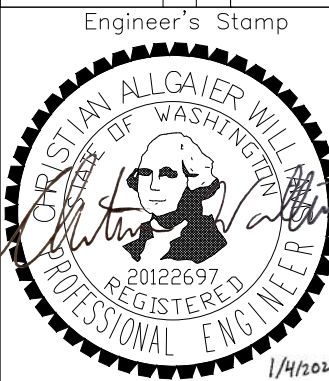
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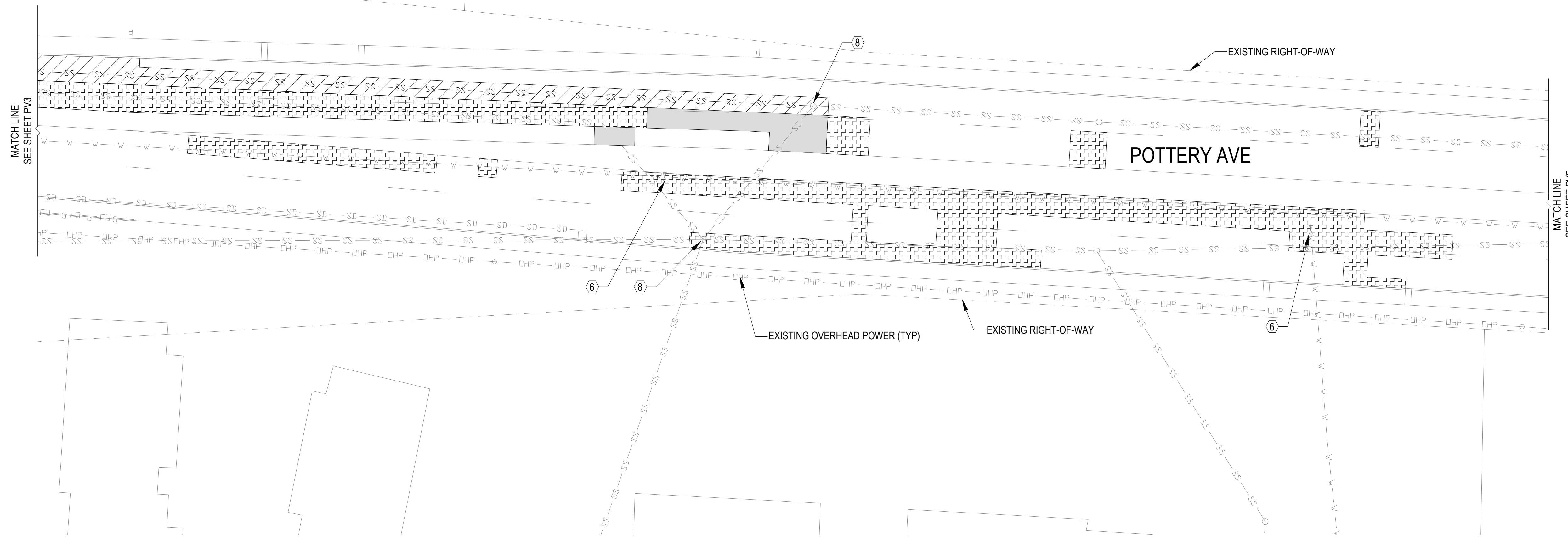


POTTERY AVE NON-MOTORIZED IMPROVEMENTS
 PAVING PLAN

PLAN NO. PV3
 SHEET 17 OF 45

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SEC. 2 & 3 T.23N. R.1E. W.M.



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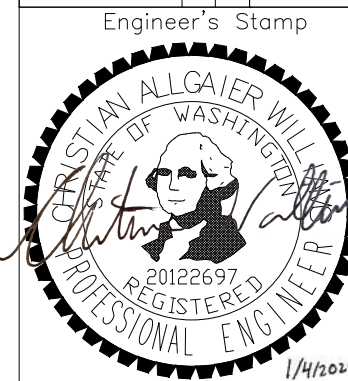
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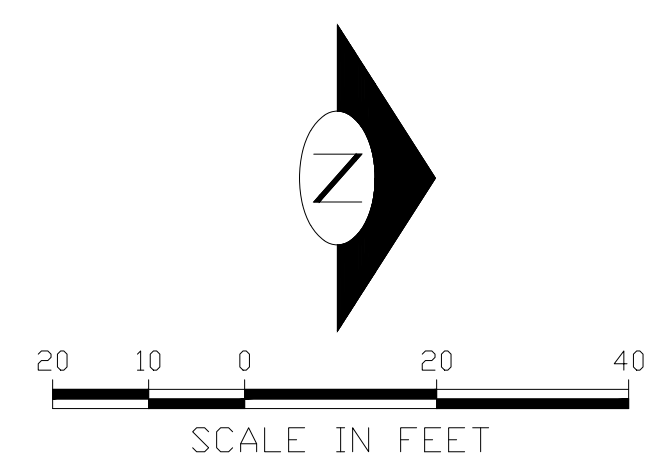
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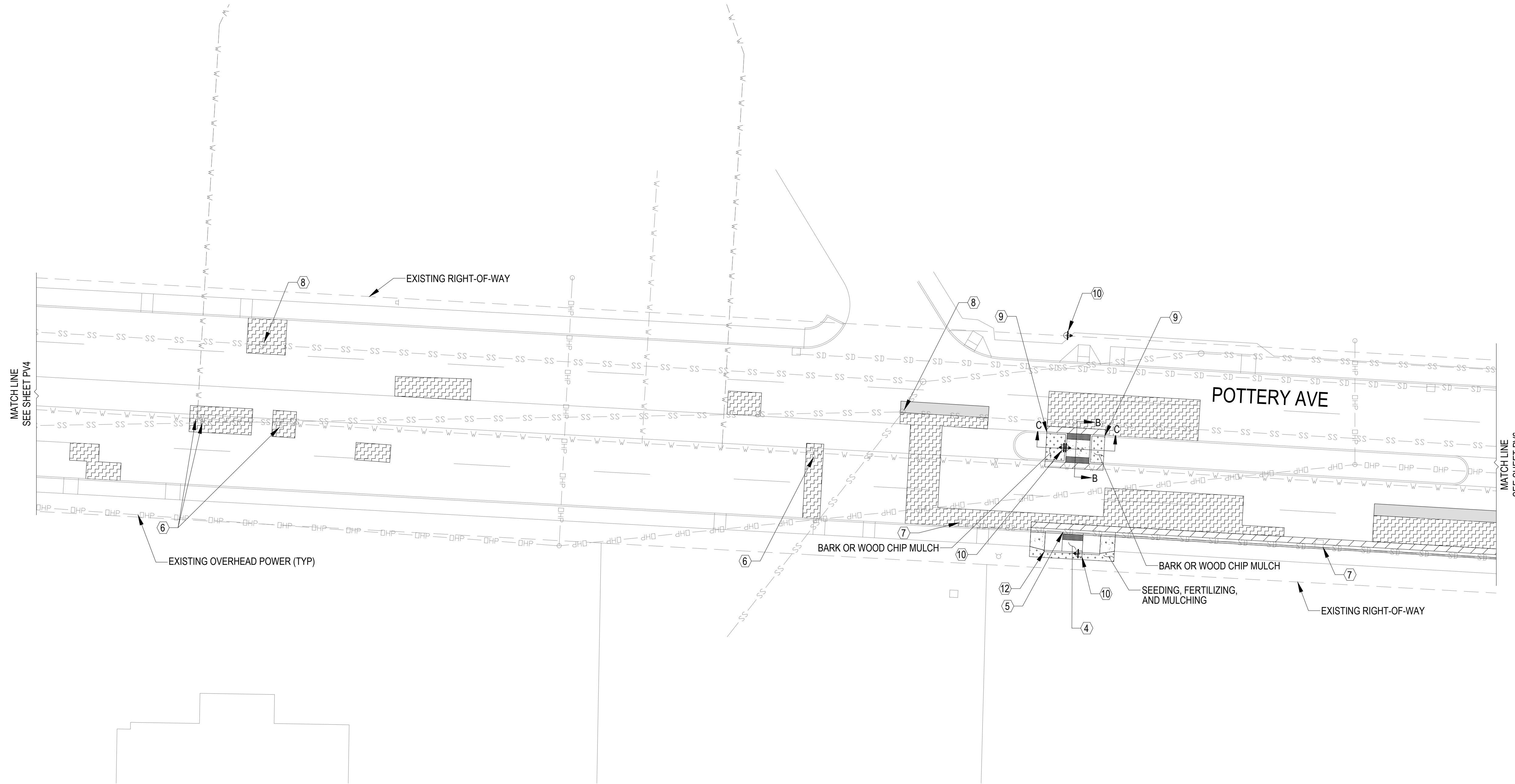
POTTERY AVE NON-MOTORIZED IMPROVEMENTS

PAVING PLAN



PLAN NO.
PV4
 SHEET
 18 OF 45

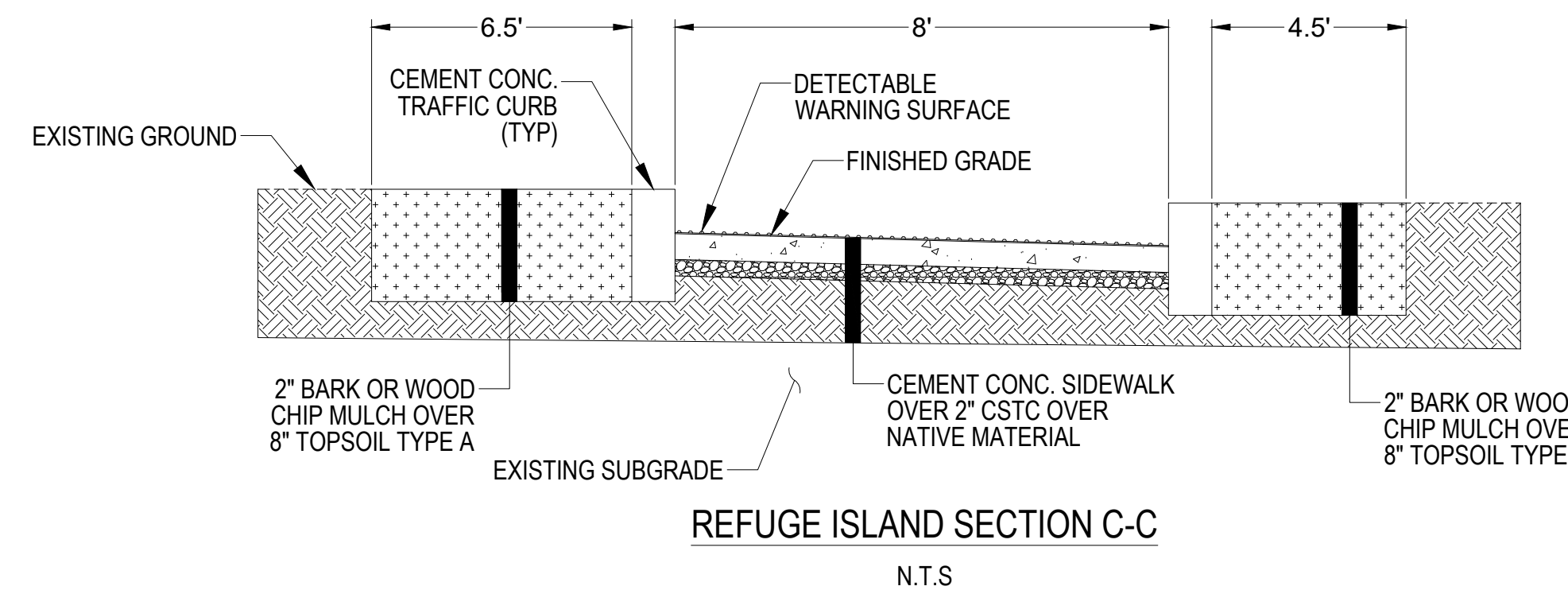
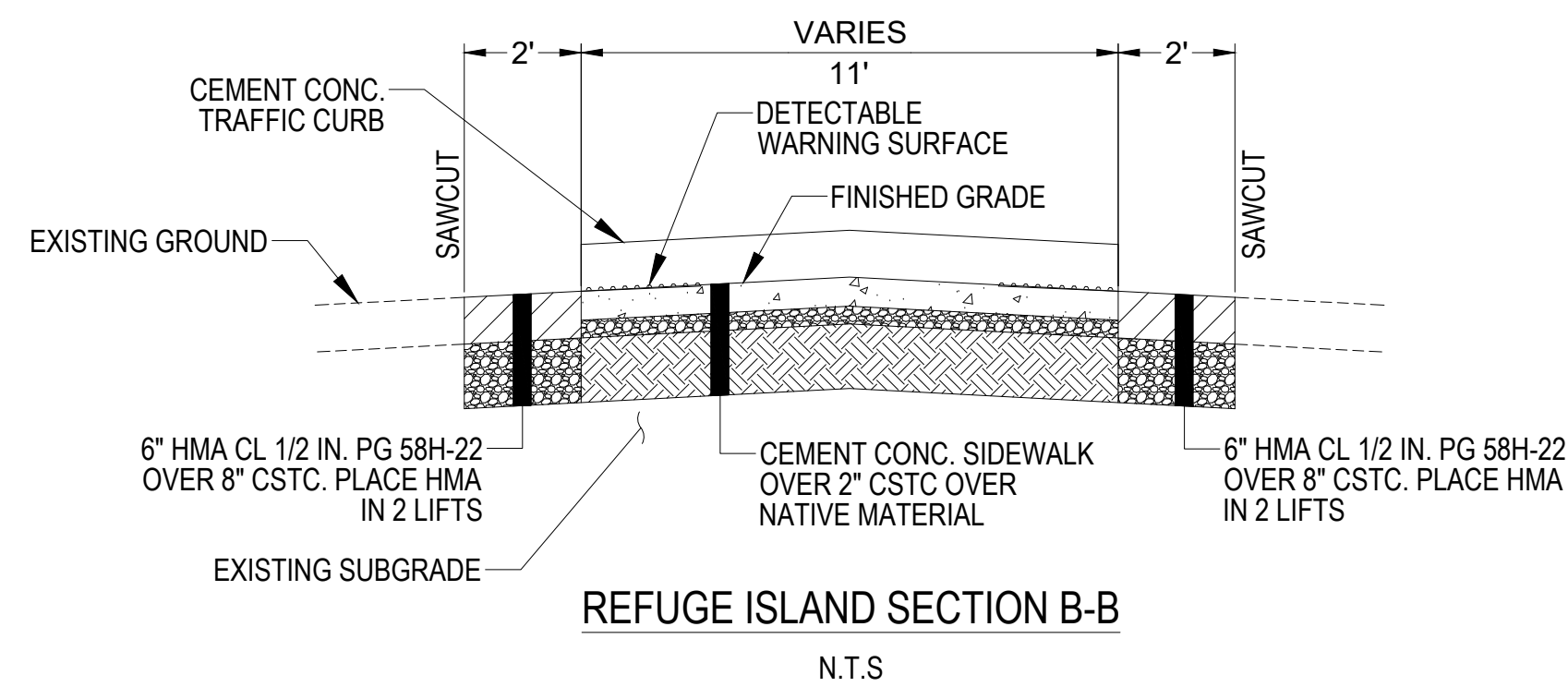
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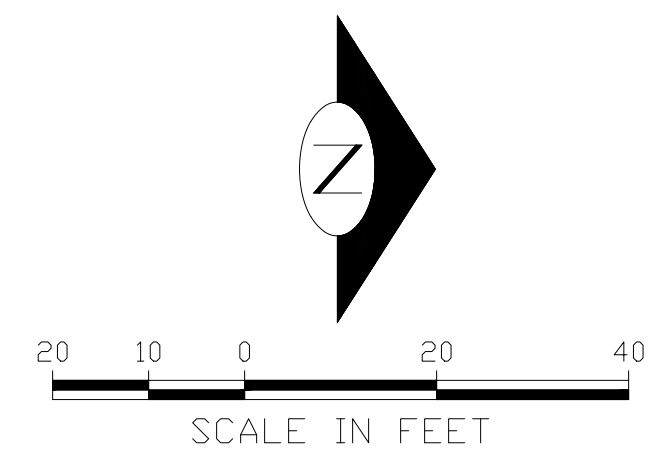
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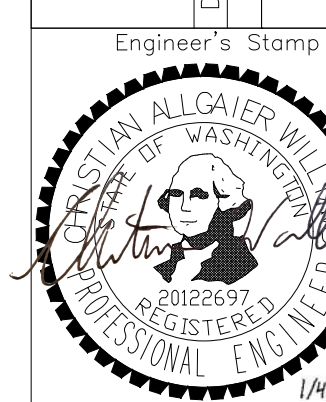
POTTERY AVE NON-MOTORIZED IMPROVEMENTS

PAVING PLAN

PLAN NO.
PV5
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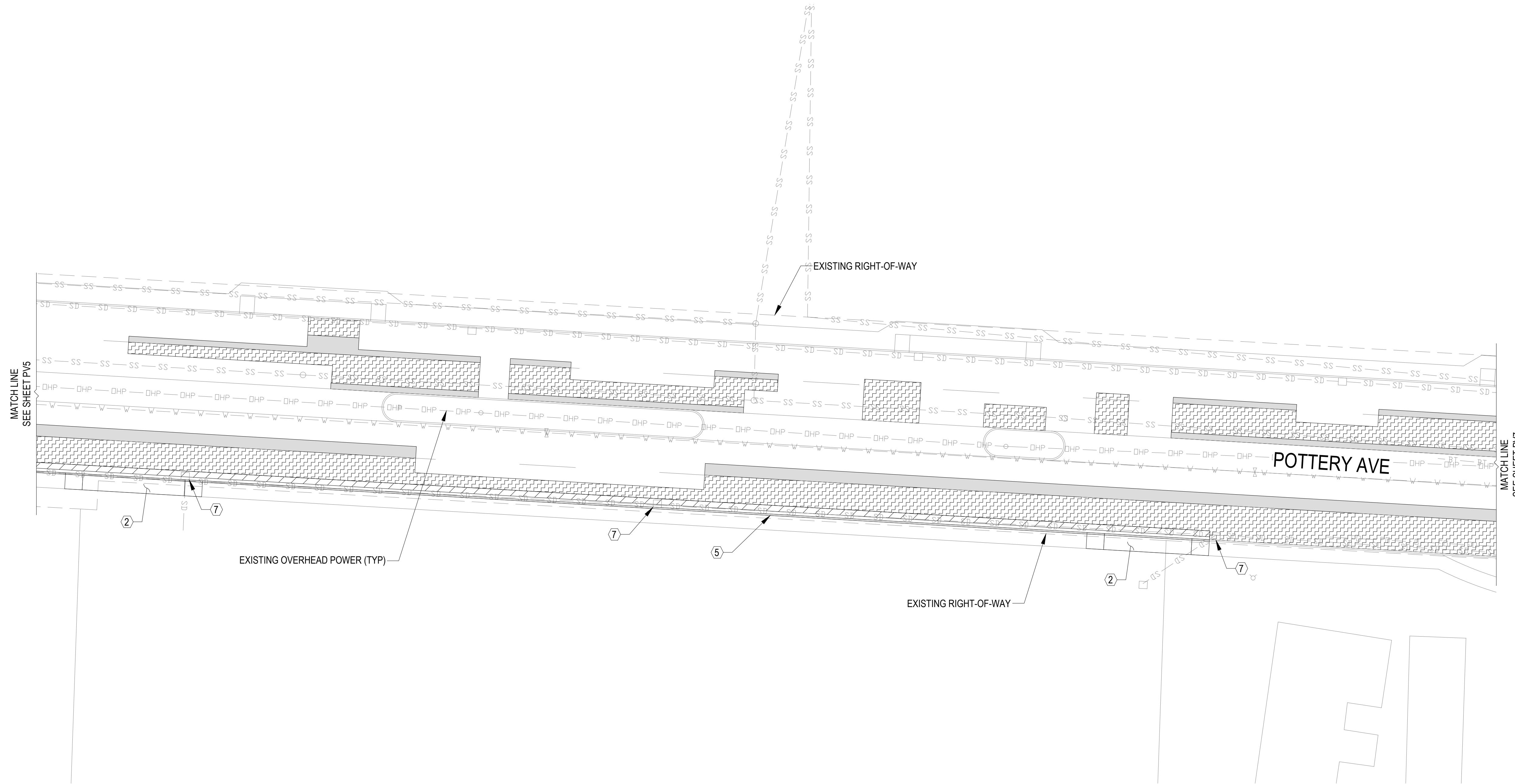


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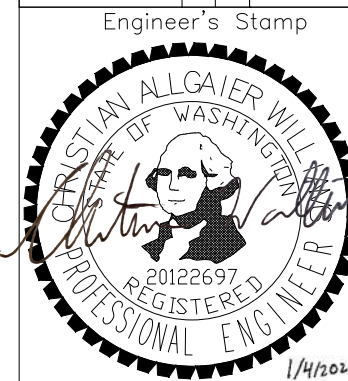
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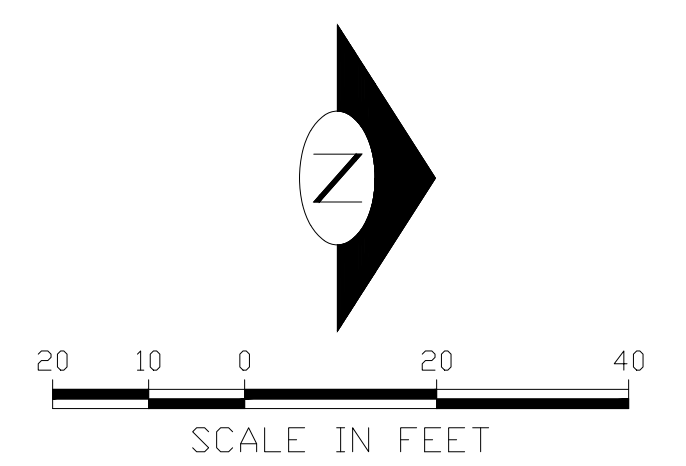
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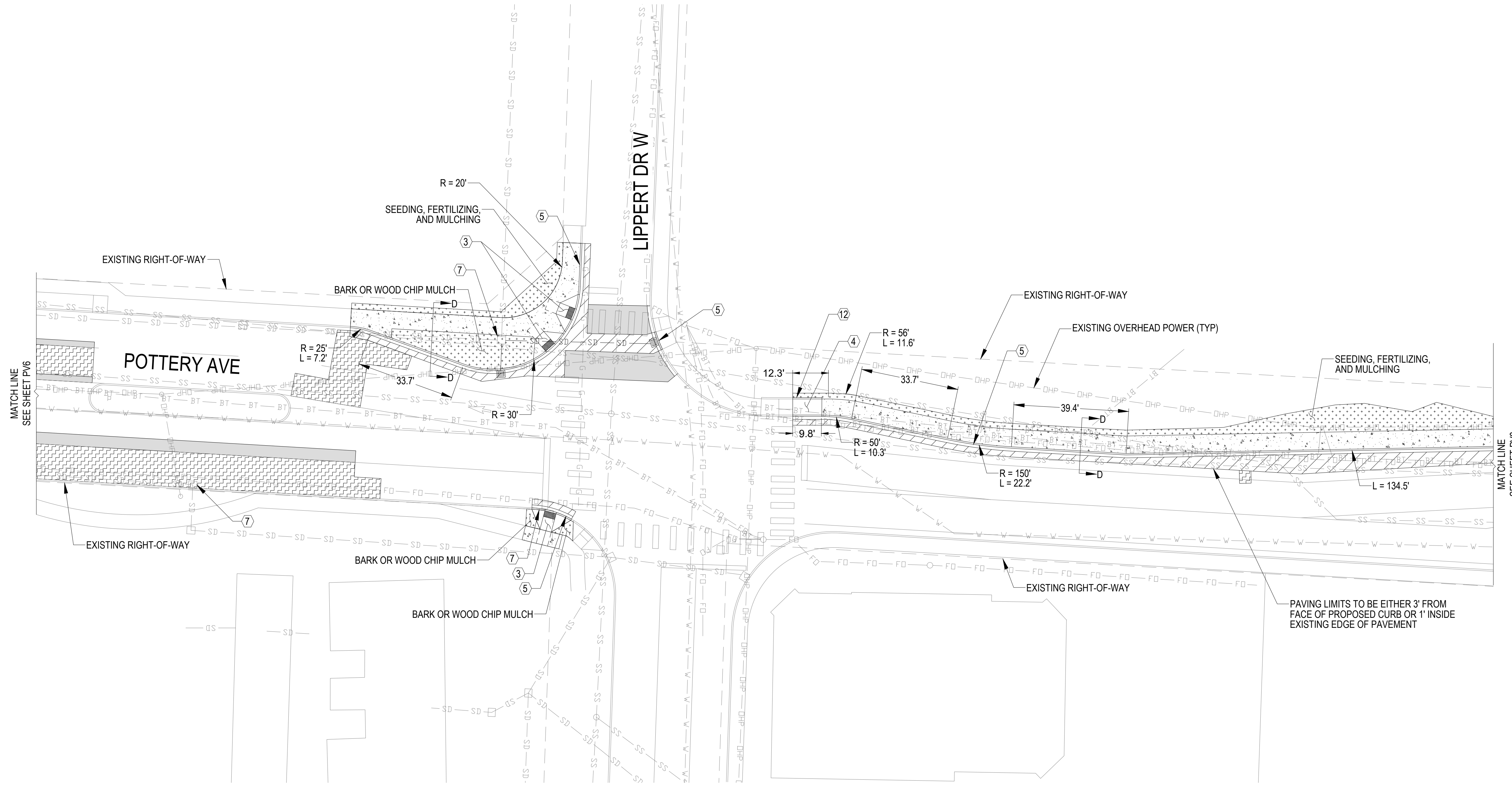
POTTERY AVE NON-MOTORIZED IMPROVEMENTS

PAVING PLAN



PLAN NO.
PV6
 SHEET
 20 OF 45

SEC. 2 & 3 T.23N. R.1E. W.M.



GENERAL NOTES:

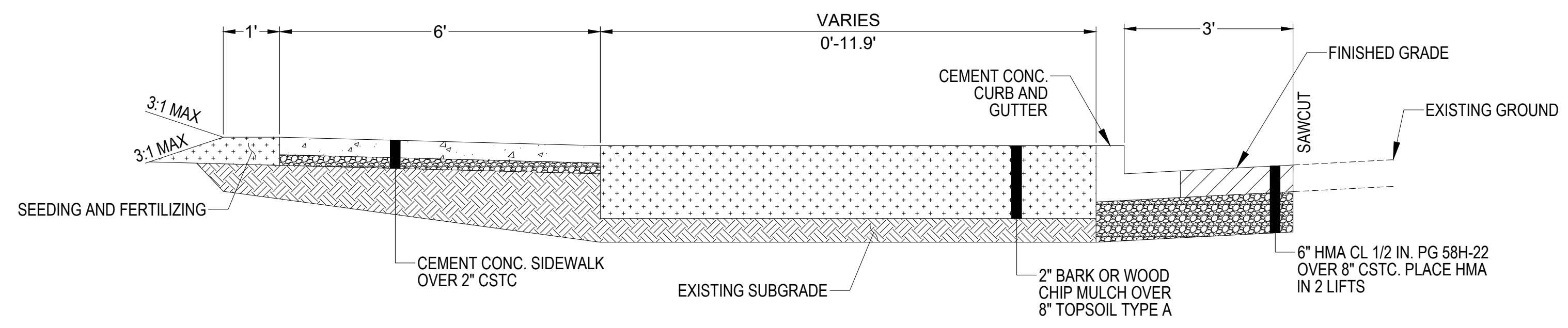
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- ① ASPHALT TRANSITION RAMP
- ② INSTALL CEMENT CONC. DRIVEWAY ENTRANCE TYPE 1 PER WSDOT STD. PLAN F-80.10
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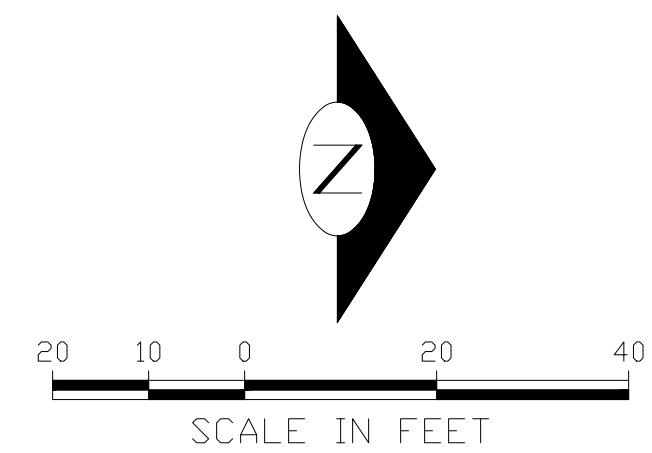
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TYPICAL SECTION D-D

N.T.S.



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POTTERY AVE NON-MOTORIZED IMPROVEMENTS

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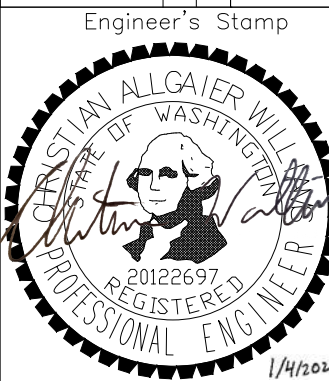
PV7

SHEET

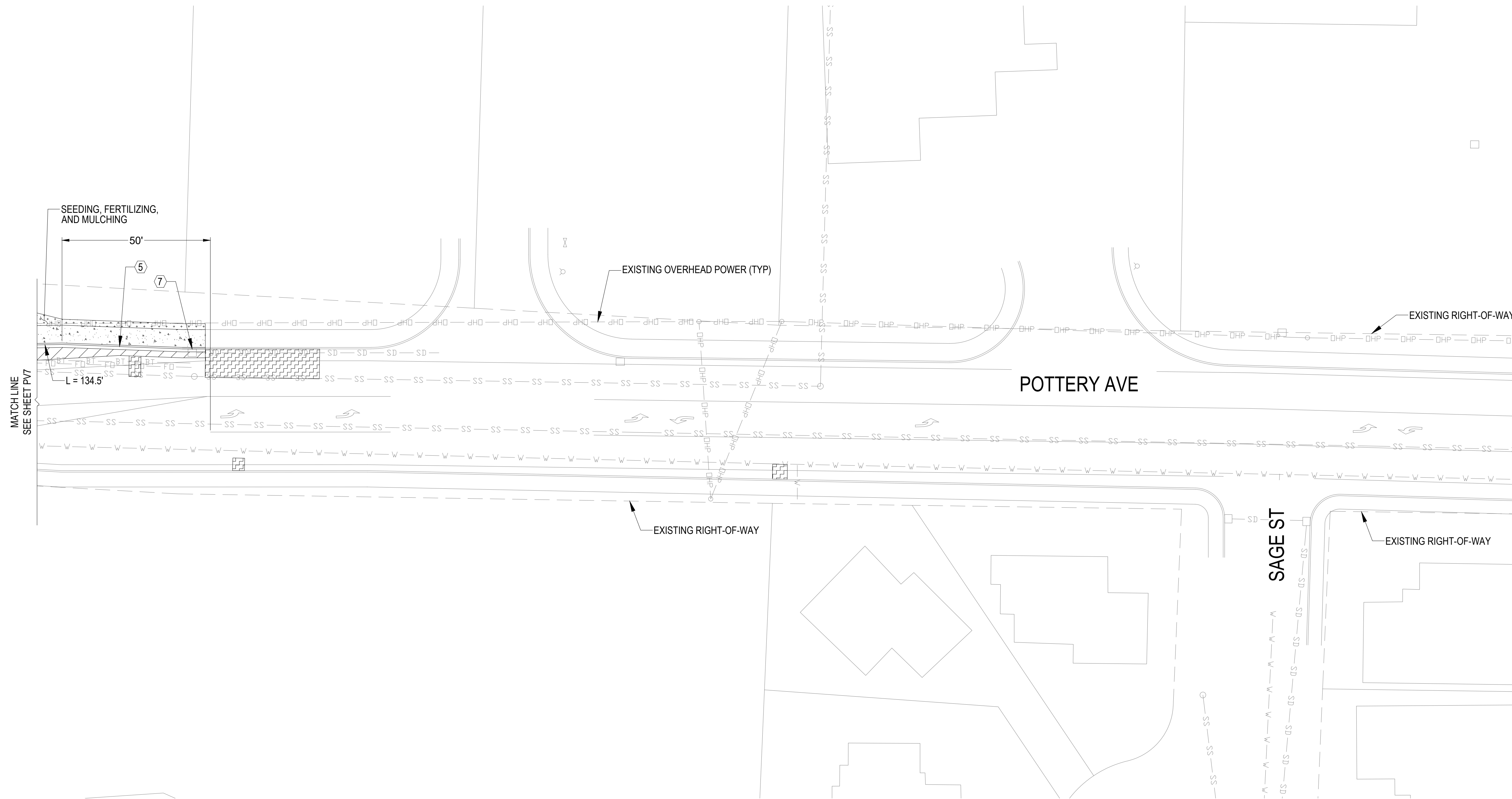
21 OF 45

All work done in accordance with the City of Port Orchard Public Works Engineering Standards and Specifications in effect on the date shown above, and supplemented by Project Provisions.
 Page 201 of 316

REVISION	TYPE	DATE



SEC. 2 & 3 T.23N. R.1E. W.M. & SEC. 34 & 35 T.24N. R.1E. W.M.



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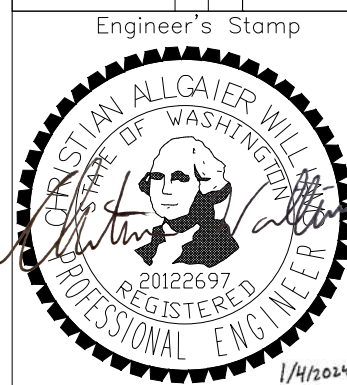
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POTTERY AVE NON-MOTORIZED IMPROVEMENTS

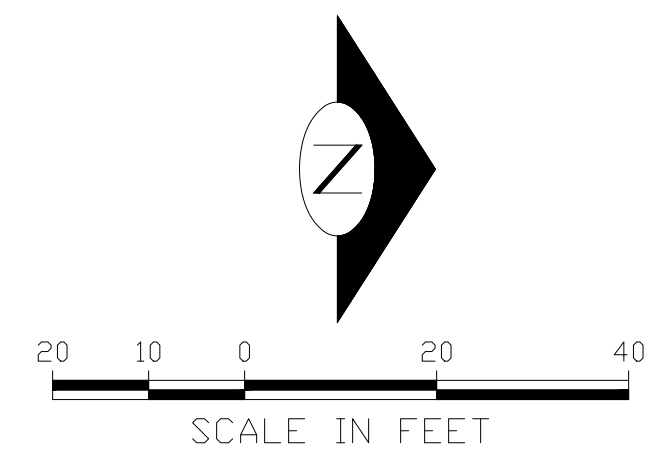
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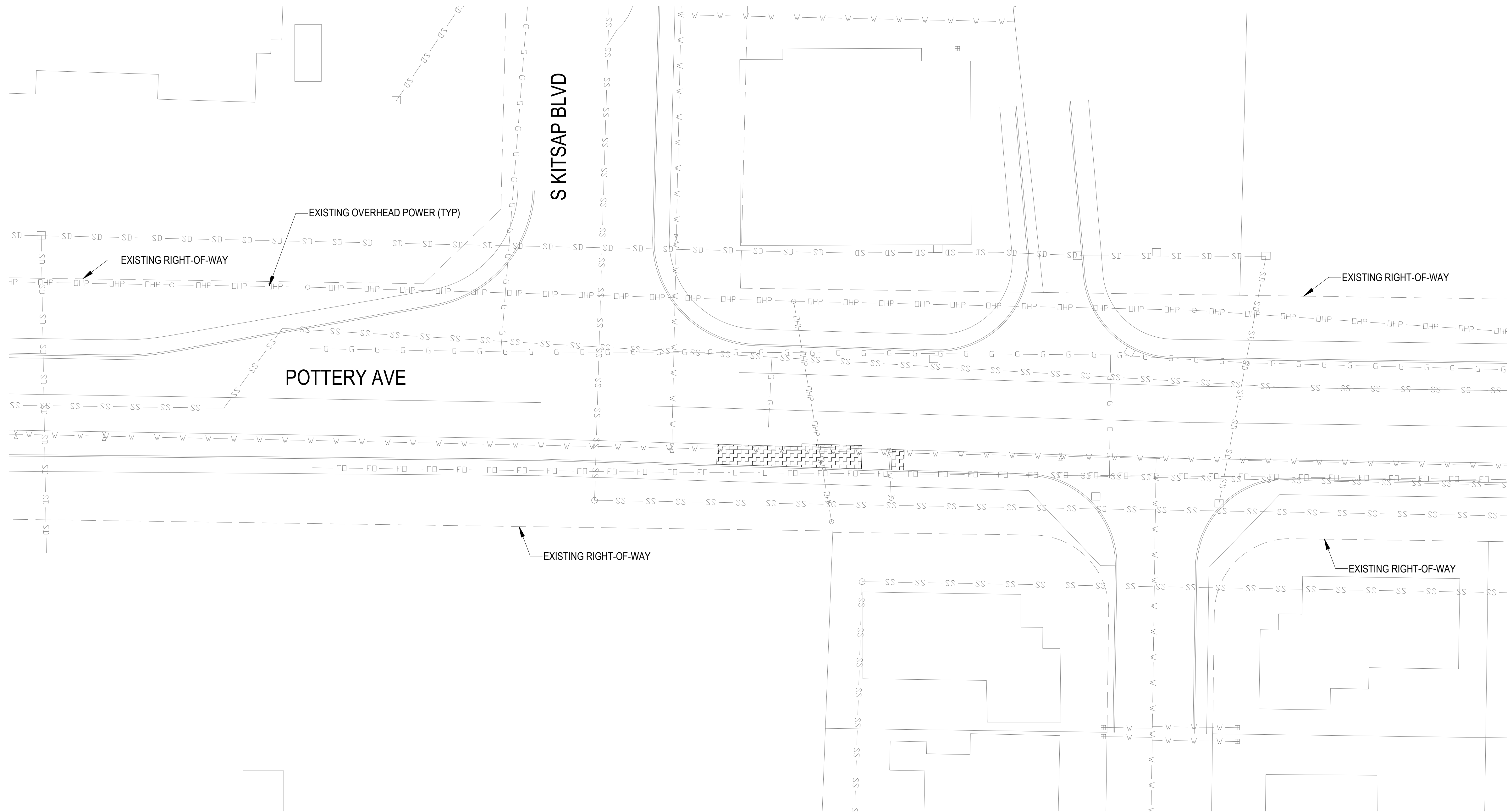
PV8

SHEET

22 OF 45



SEC. 34 & 35 T.24N. R.1E. W.M.



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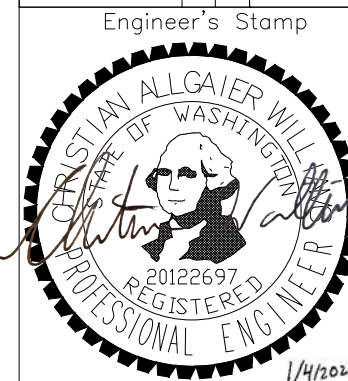
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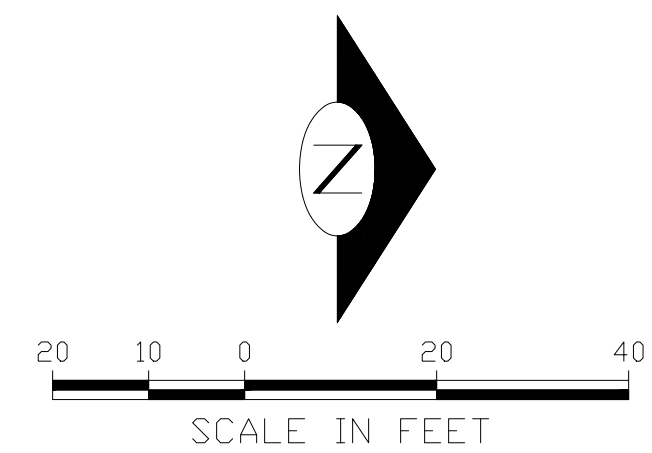
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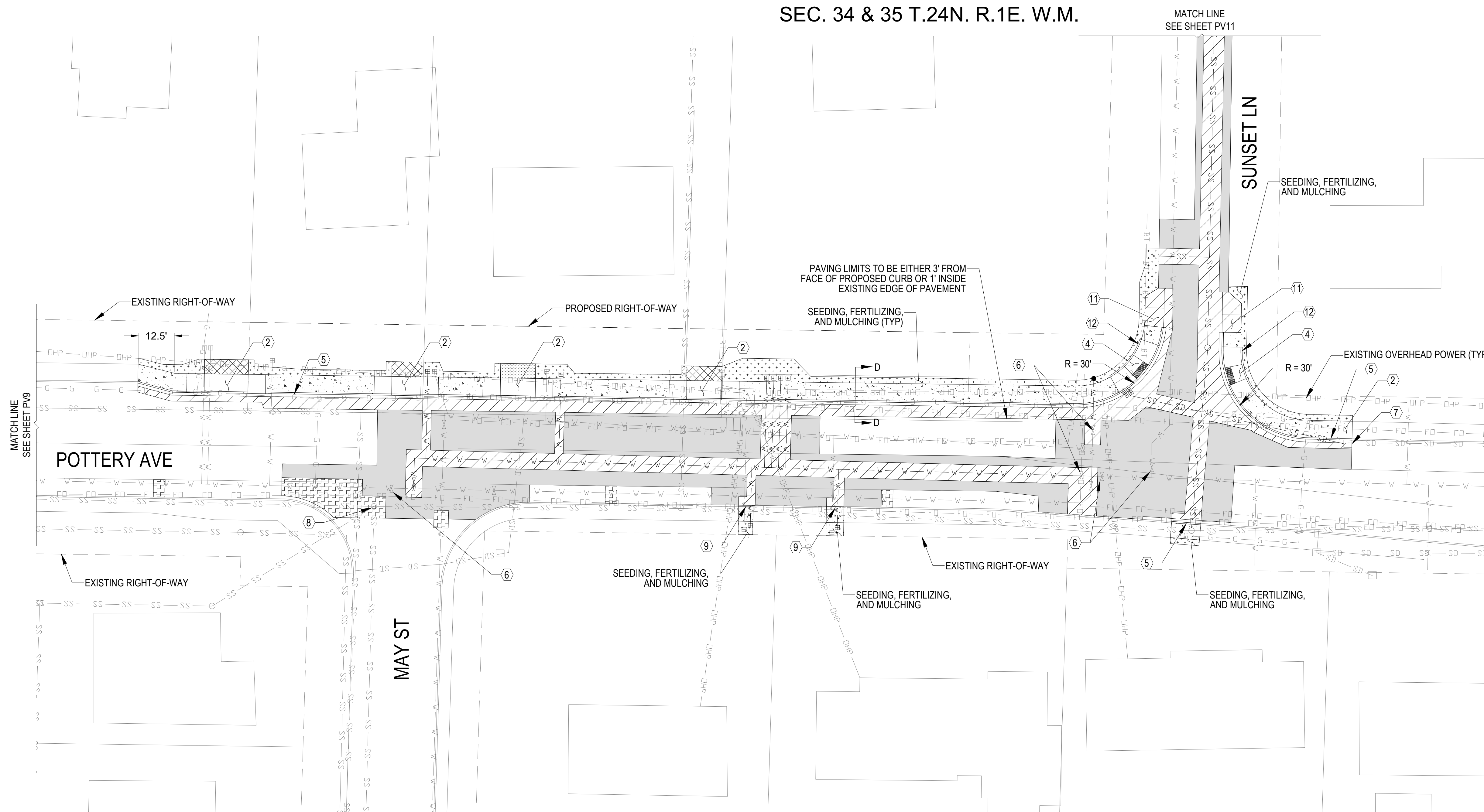
PV9

SHEET

23 OF 45



SEC. 34 & 35 T.24N. R.1E. W.M.



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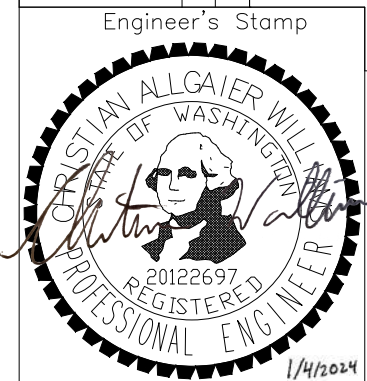
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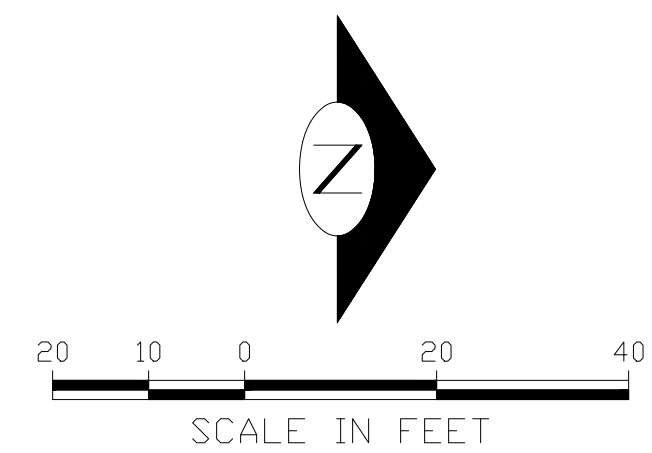
PAVING PLAN

PLAN NO.

PV10

SHEET

24 OF 45



SEC. 34 T.24N. R.1E. W.M.



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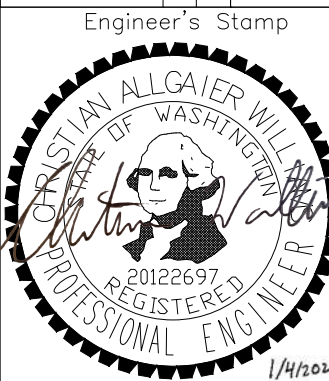
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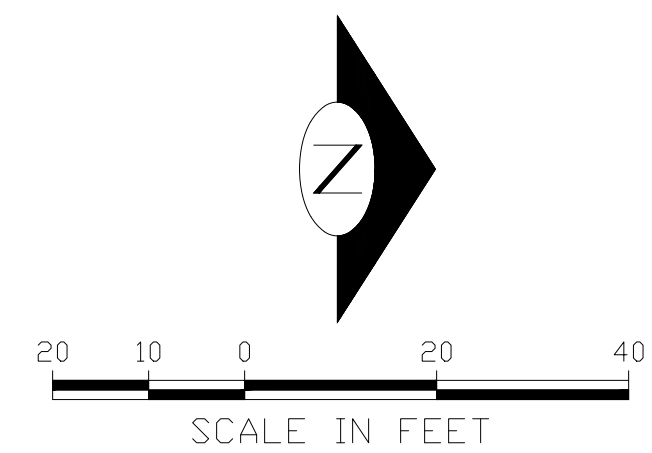
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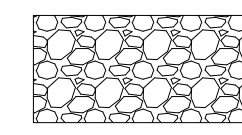
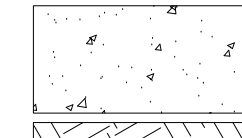
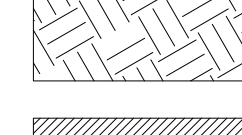



PV11

SHEET

25 OF 45



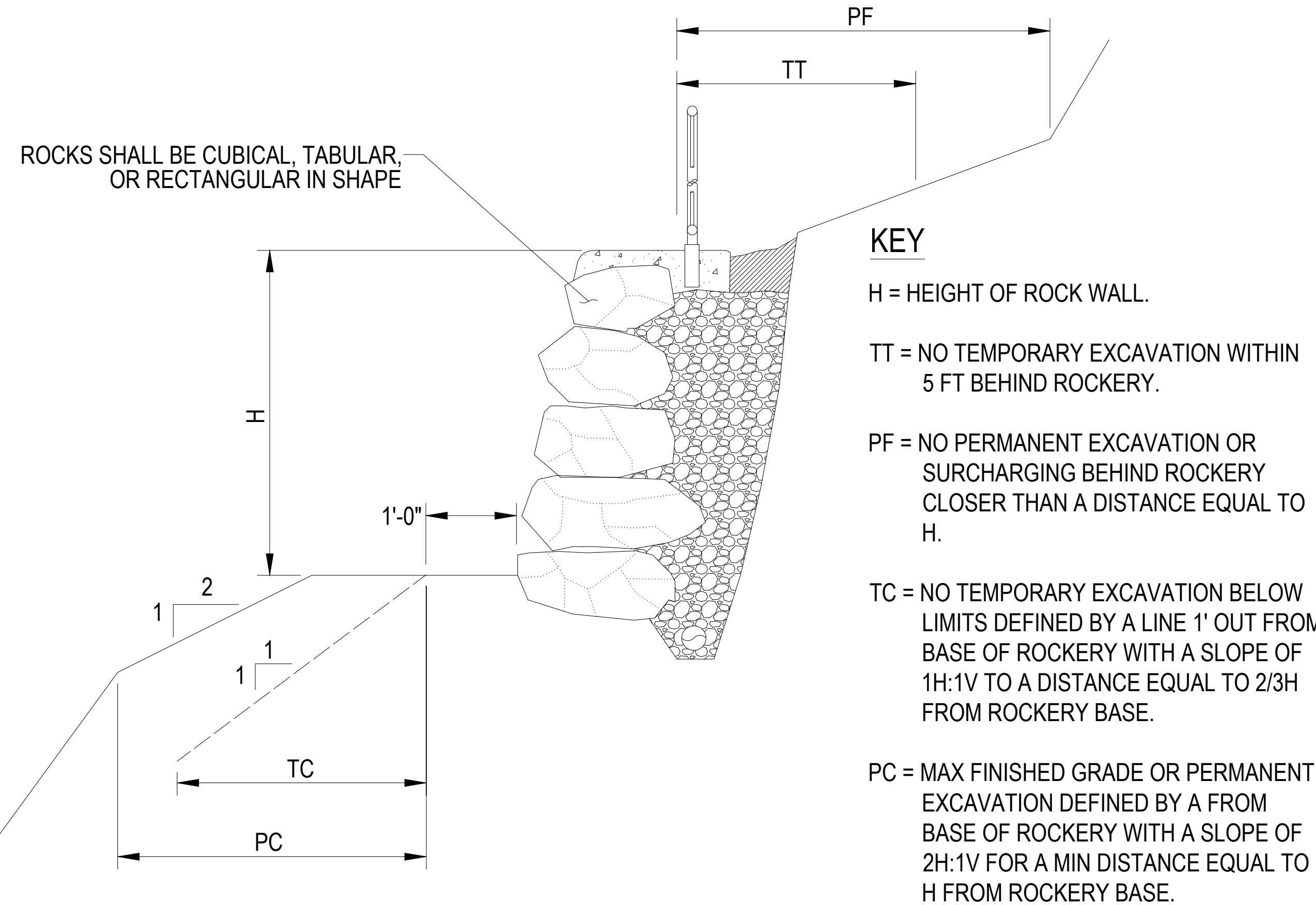
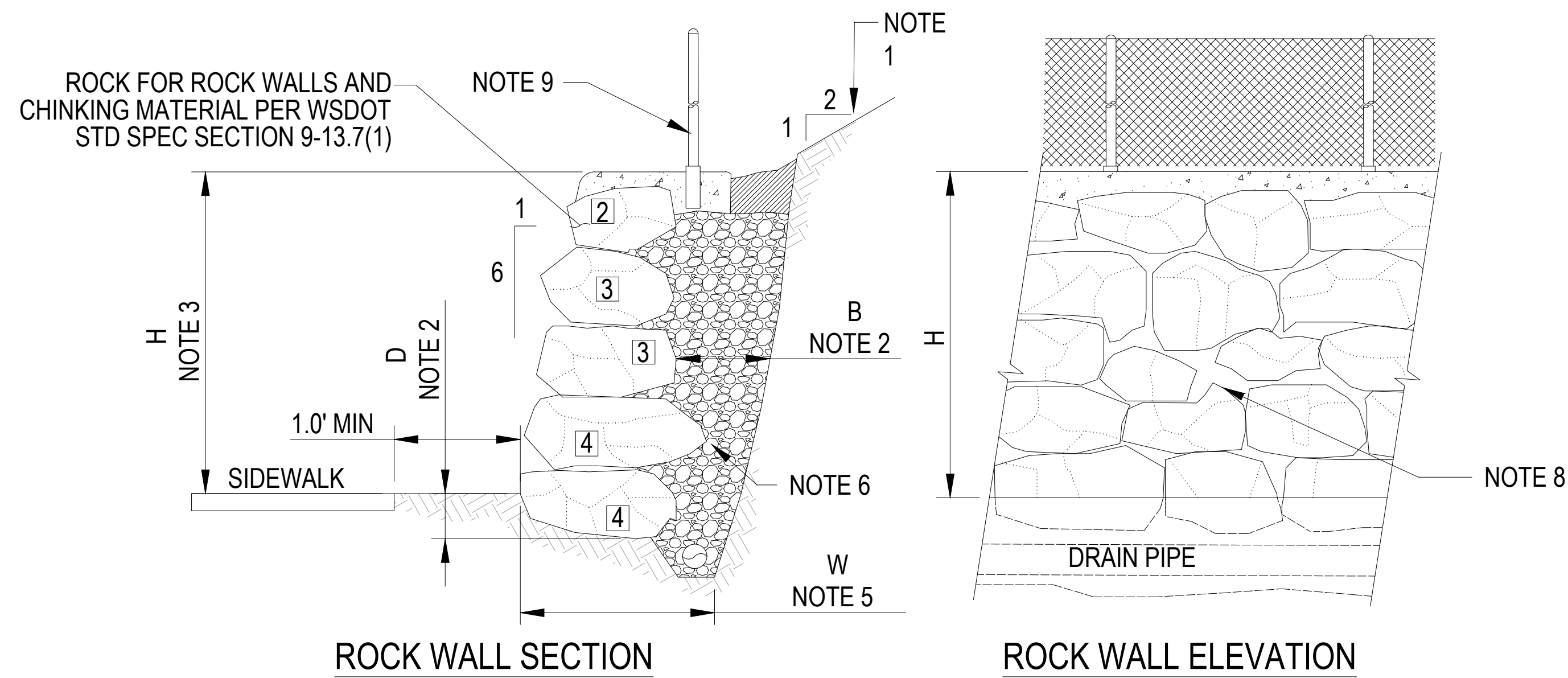
LEGEND

-  BACKFILL FOR ROCK WALL PER WSDOT STD SPEC SECTION 9-13.7(2)
-  CONCRETE ROCKERY CAP
-  UNDISTURBED NATIVE SOIL
-  SEED OR SOD ON 12" OF TOPSOIL WITH UNDERLAYER OF FILTER FABRIC
-  4 INCH DIAMETER, HDPE OR SDR35 PVC, PERFORATED OR SLOTTED, WITH SMOOTH INTERIOR PIPE, WRAPPED W/ CONSTRUCTION GEOTEXTILE. SET SLIGHTLY LOWER THAN THE BASE ROCK TO PREVENT DAMAGE. LAY WITH A POSITIVE SLOPE TO DISCHARGE AWAY FROM ROCKERY
-  DESIGNATES SIZE OF ROCK, I.E. 4 MAN. SEE NOTE 11 EQUAL TO H.

NOTES

1. MAXIMUM INCLINATION OF THE SLOPES ABOVE AND BEHIND ROCK WALL SHALL BE 2:1 (HORIZONTAL:VERTICAL).
2. MINIMUM THICKNESS OF ROCK FILTER LAYER B=12 INCHES. MINIMUM EMBEDMENT D=18 INCHES.
3. MAXIMUM ROCK WALL HEIGHT H=8 FEET. ROCK WALLS GREATER THAN 8 FEET IN HEIGHT SHALL BE DESIGNED BY A CIVIL ENGINEER LICENSED IN THE STATE OF WASHINGTON.
4. ROCK SHALL BE PLACED TO GRADUALLY DECREASE IN SIZE WITH INCREASING WALL HEIGHT.
5. MINIMUM WIDTH OF KEYWAY EXCAVATION W, SHALL BE EQUAL TO THE THICKNESS OF THE BASE ROCK PLUS B (ROCK FILTER).
6. THE LONG DIMENSION OF THE ROCKS SHALL EXTEND BACK TOWARD THE CUT OR FILL FACE TO PROVIDE MAXIMUM STABILITY.
7. WHENEVER POSSIBLE EACH ROCK SHALL BEAR ON TWO OR MORE ROCKS BELOW IT, WITH GOOD FLAT-TO-FLAT CONTACT.
8. WHERE VOIDS OF GREATER THAN 6 INCHES IN DIMENSIONS EXIST IN THE ROCK FACE AND THERE IS NO ROCK CONTACT WITHIN THE ROCK WALL THICKNESS, THE VOID SHALL BE CHINKED WITH SMALL PIECES OF ROCK.
9. ROCKERIES MORE THAN 30 INCHES ABOVE GRADE OR FLOOR BELOW SHALL BE PROTECTED BY A BLACK COATED CHAIN LINK FENCE TYPE 4 PER WSDOT STD. PLAN L-20.10.
10. ROCKERIES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE "ROCK WALL CONSTRUCTION GUIDELINES", PREPARED BY THE ASSOCIATED ROCKERY CONTRACTORS.
11. THE DENSITY OF ROCK MATERIAL SHALL BE A MINIMUM OF 155 PCF. THE SIZE CATEGORIES FOR ROCKS SHALL BE AS FOLLOWS:

SIZE	APPROXIMATE WEIGHT - LBS	APPROXIMATE DIAMETER - INCHES
1 MAN	50-200	12-18
2 MAN	200-700	18-28
3 MAN	700-2000	28-36
4 MAN	2000-4000	36-48
5 MAN	4000-6000	48-54
6 MAN	6000-8000	54-60



- KEY**
- H = HEIGHT OF ROCK WALL.
 - TT = NO TEMPORARY EXCAVATION WITHIN 5 FT BEHIND ROCKERY.
 - PF = NO PERMANENT EXCAVATION OR SURCHARGING BEHIND ROCKERY CLOSER THAN A DISTANCE EQUAL TO H.
 - TC = NO TEMPORARY EXCAVATION BELOW LIMITS DEFINED BY A LINE 1' OUT FROM BASE OF ROCKERY WITH A SLOPE OF 1H:1V TO A DISTANCE EQUAL TO 2/3H FROM ROCKERY BASE.
 - PC = MAX FINISHED GRADE OR PERMANENT EXCAVATION DEFINED BY A FROM BASE OF ROCKERY WITH A SLOPE OF 2H:1V FOR A MIN DISTANCE EQUAL TO H FROM ROCKERY BASE.

PLACEMENT NOTES

1. APPROVAL FOR THE PLACEMENT OF THE ROCKERY WILL DEPEND ON EXISTING AND PROPOSED UNDERGROUND UTILITY LOCATIONS.

DESIGN AND POST CONSTRUCTION LIMITATIONS

ROCKERY DETAIL

N.T.S

Engineer's Stamp

DATE: _____

REVISION TYPE REVISIONS

DESIGN CHECK REVIEW D

CITY OF PORT ORCHARD CAPITAL PROJECTS
 216 PROSPECT STREET, PORT ORCHARD, WA 98366
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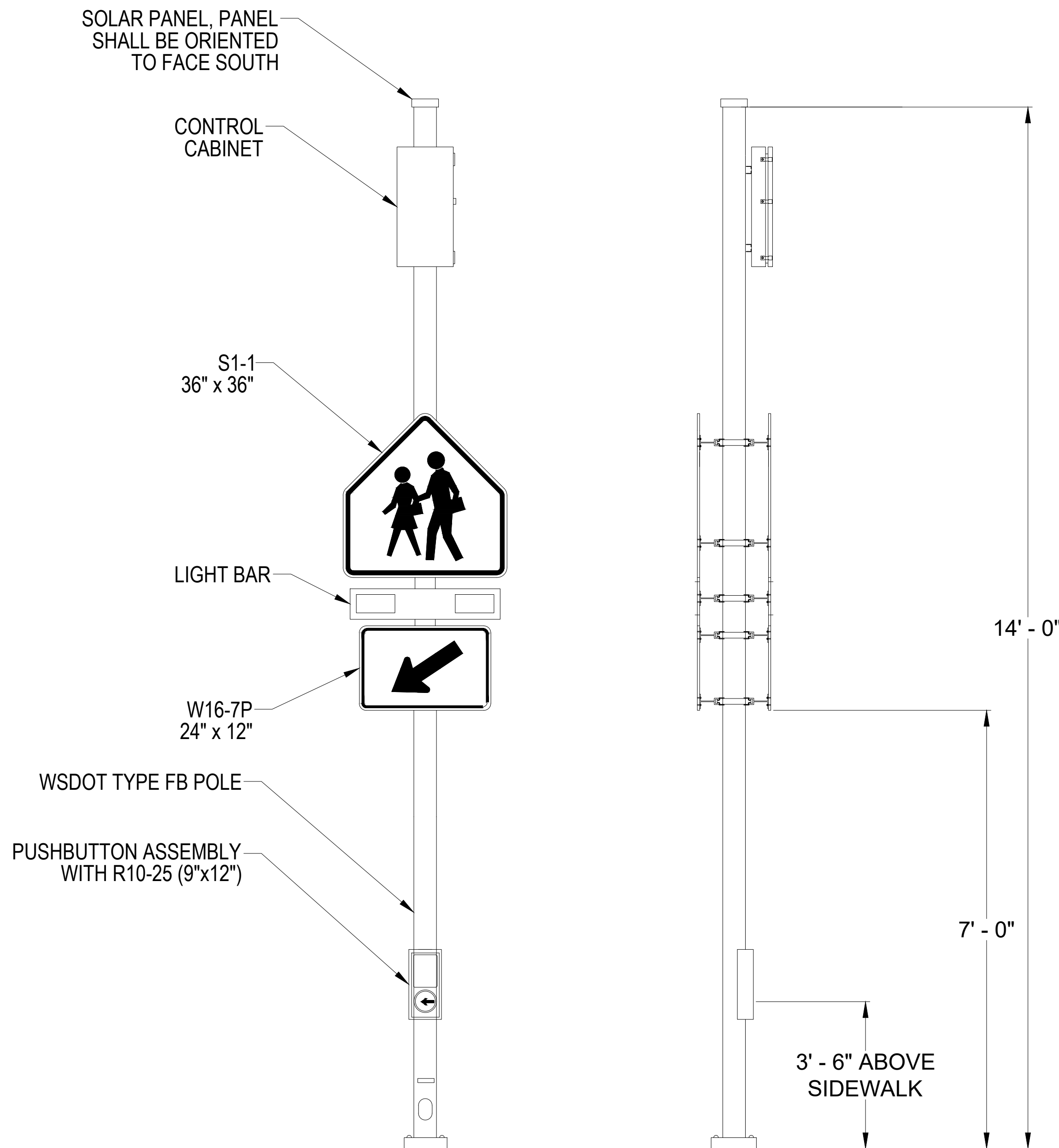
MISCELLANEOUS DETAILS

PLAN NO.

MD1

SHEET

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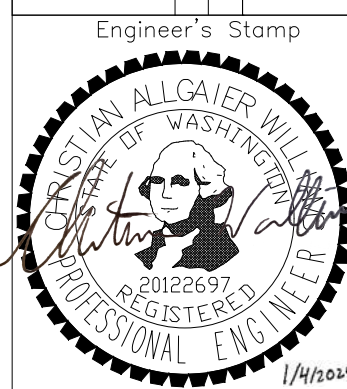
NOTES

1. RECTANGULAR RAPID FLASHING BEACON SHALL BE SOLAR POWERED UNLESS NOTED OTHERWISE IN THE DRAWINGS.
2. RECTANGULAR RAPID FLASHING BEACON SHALL HAVE SIGNS AND LIGHT BAR ON BOTH SIDES OF PEDESTAL FOR POLE IN CENTER REFUGE ISLAND, AND BE ORIENTED TO FACE ONCOMING VEHICULAR TRAFFIC UNLESS NOTED OTHERWISE IN THE DRAWINGS.
3. PEDESTRIAN PUSHBUTTON SHALL BE PROVIDED FOR OUTER REFUGE ISLANDS ONLY. CENTER OF BUTTON SHALL BE 3'-6" AS MEASURED FROM WALKING SURFACE.
4. PEDESTRIAN PUSHBUTTON SHALL BE INSTALLED PARALLEL TO CROSSWALK.
5. ALL POLES SHALL BE SLIP BASE.
6. POLE FOUNDATIONS SHALL BE PER WSDOT STD. PLAN J-20.11 WHEN UTILIZING A CURB BASE, OTHERWISE POLE FOUNDATIONS SHALL BE PER WSDOT STD. PLAN J-21.10.

RRFB DETAIL

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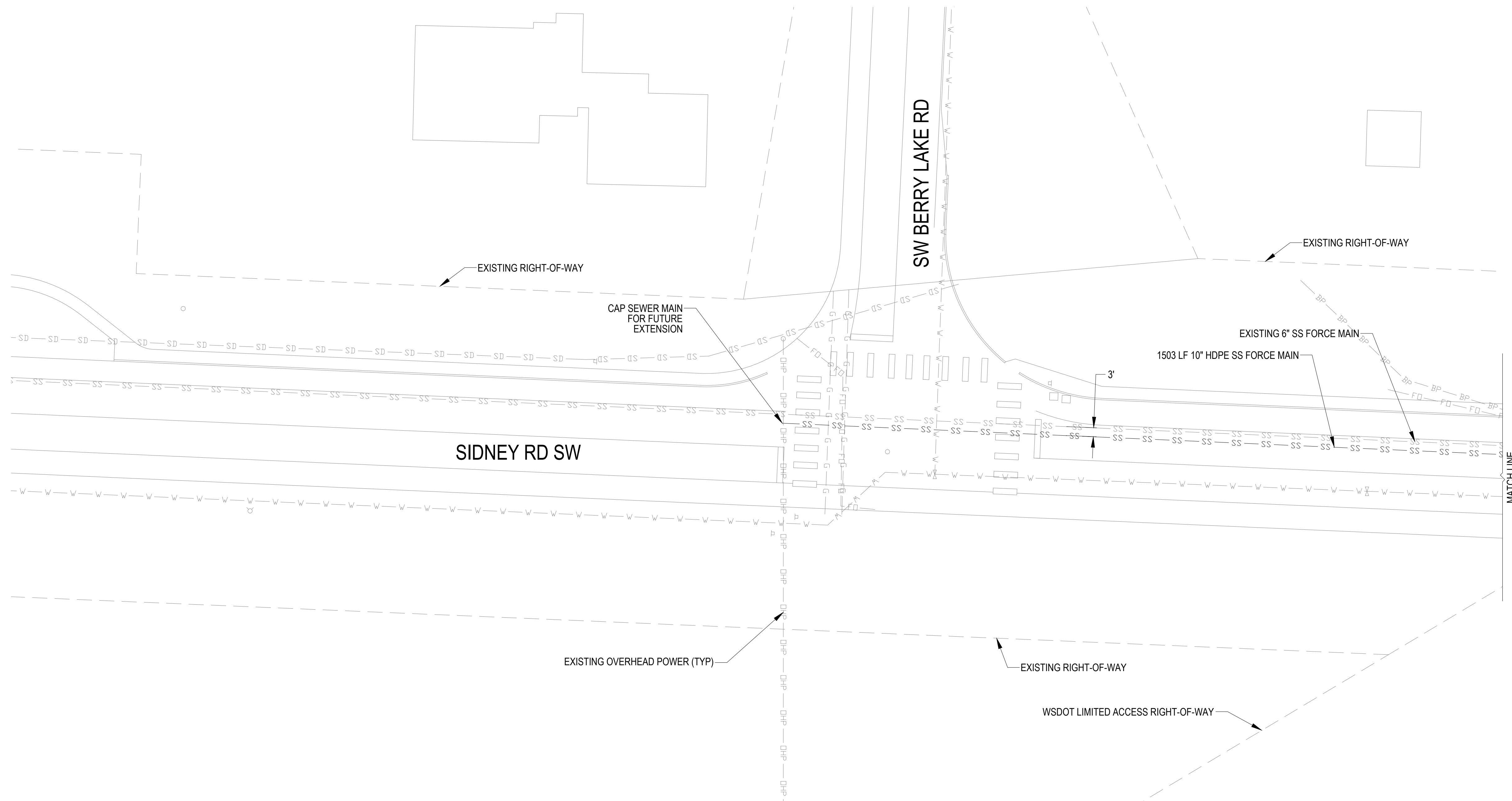
PLAN NO.

MD2

SHEET

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SEC. 2 & 3 T.23N. R.1E. W.M.



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5. THE DEPTH OF TRENCHING, INSTALLATION OF PIPES, AND BACKFILL SHALL BE SUCH AS TO GIVE A MINIMUM COVER OF 36 INCHES OVER THE TOP OF THE WATER MAIN.
6. EXISTING WATER MAIN SHALL REMAIN IN OPERATION UNTIL THE NEW WATER MAIN IS OPERATIONAL.
7. THE BOTTOM OF THE WATER MAIN SHALL BE 18 INCHES MINIMUM ABOVE THE TOP OF THE SEWER MAIN. IF IT IS DETERMINED THAT THIS IS NOT FEASIBLE, THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY.
8. THE DEPTH OF TRENCHING, INSTALLATION OF PIPES, AND BACKFILL SHALL BE SUCH AS TO GIVE A MINIMUM COVER OF 60 INCHES OVER THE TOP OF THE SEWER MAIN OR CASING PIPE.
9. ROADWAY AND SHOULDERS SHALL BE RESTORED IN-KIND UNLESS NOTED OTHERWISE.
10. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO POTHOLE EXISTING UTILITIES TO CONFIRM DEPTHS AND CONFIRM THERE WILL BE NO CONFLICTS WITH PROPOSED INSTALLATIONS. THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY OF ANY ANTICIPATED CONFLICTS.
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- ② CONNECTION TO DRAINAGE STRUCTURE
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- ⑫ REMOVE EXISTING BLIND FLANGE AND CONNECT WATER MAIN TO EXISTING VALVE ASSEMBLY
- ⑬ RELOCATE EXISTING FIRE HYDRANT ASSEMBLY AND CONNECT TO EXISTING VALVE ASSEMBLY PER COPO STD. PLAN 881
- ⑭ EXISTING AC WATER MAIN TO BE ABANDONED IN PLACE
- ⑮ REMOVE AND DISPOSE OF EXISTING VALVE BOX ASSEMBLY
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LEGEND:

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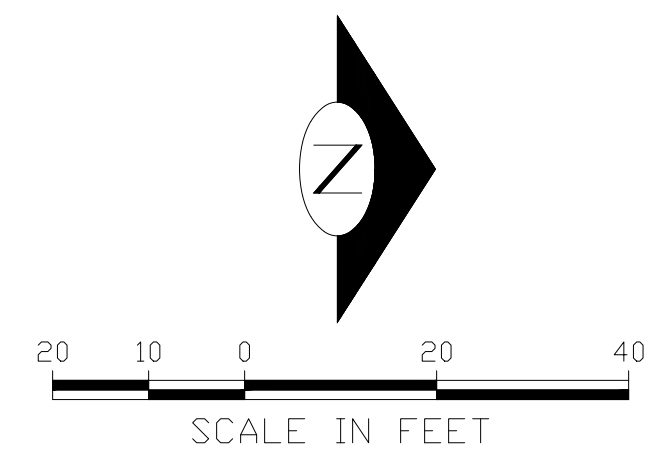
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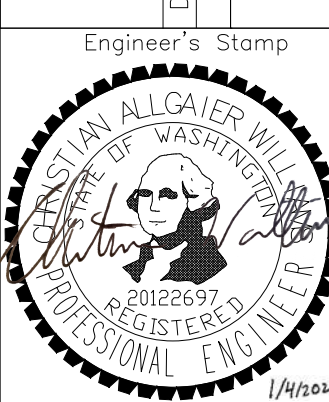
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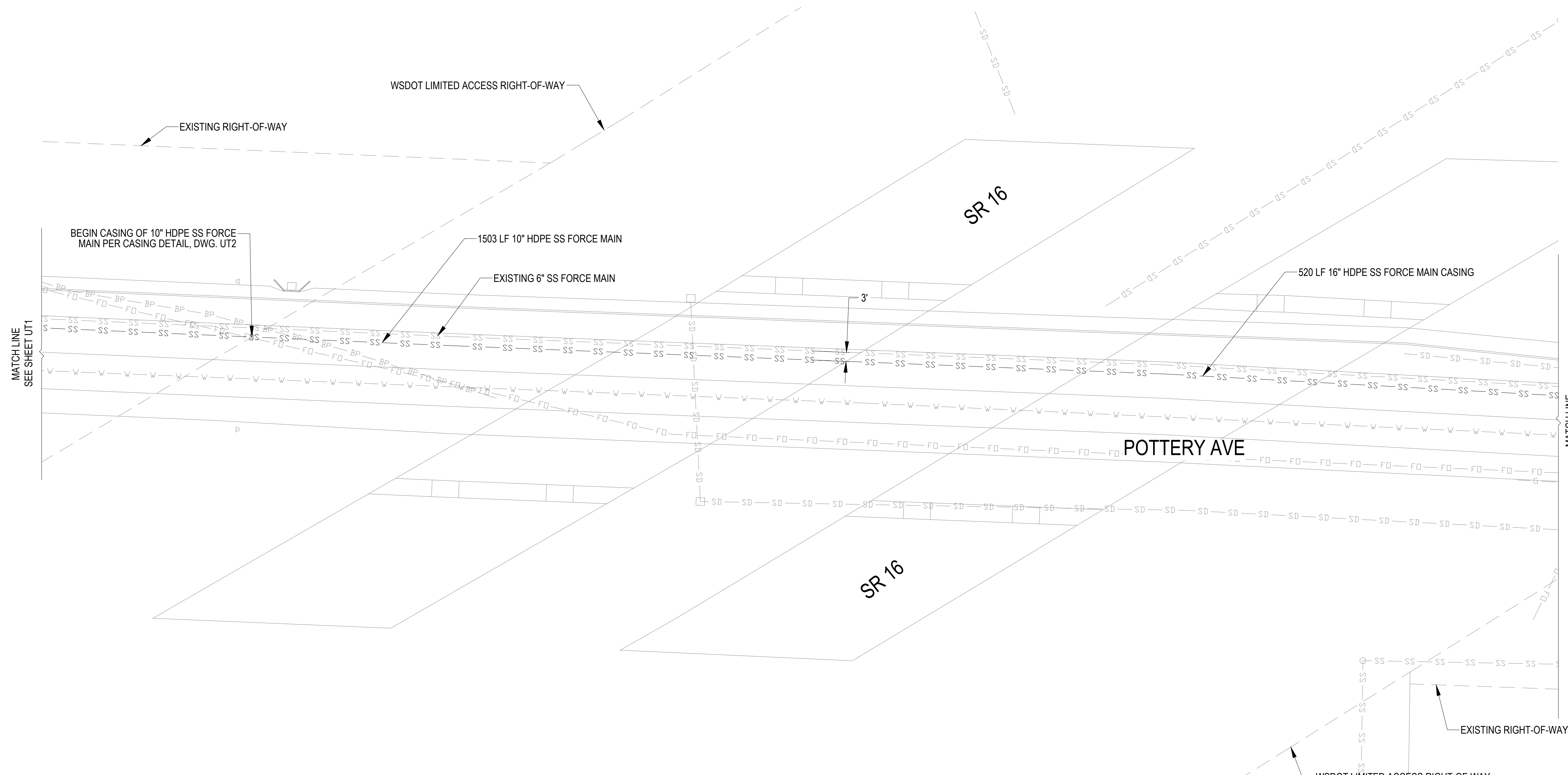
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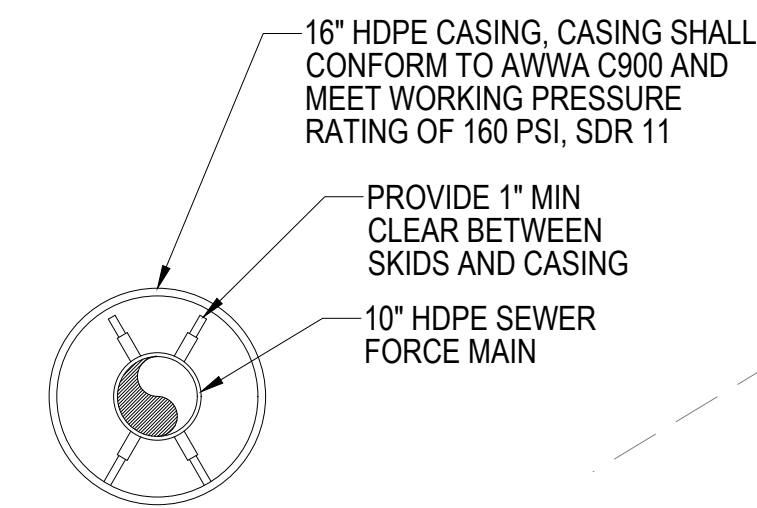
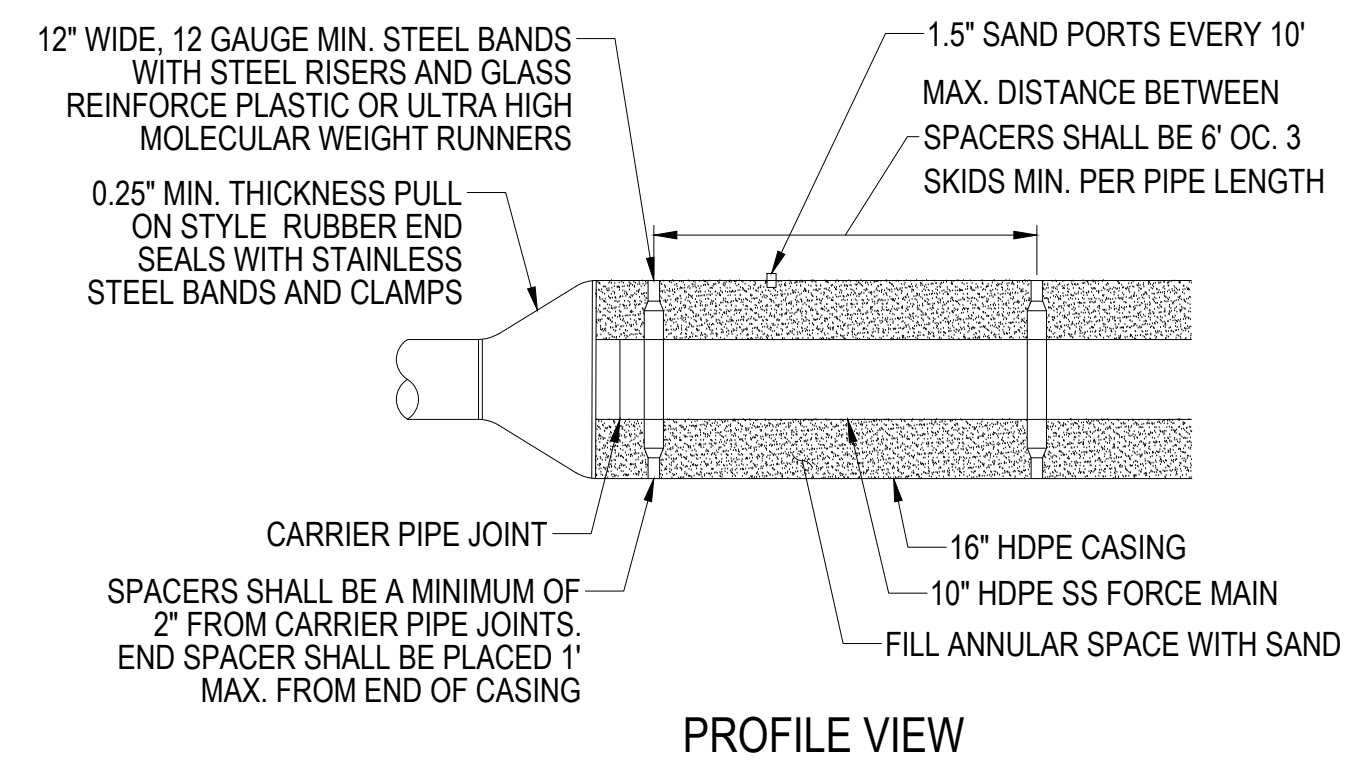


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FORCE MAIN CASING DETAIL
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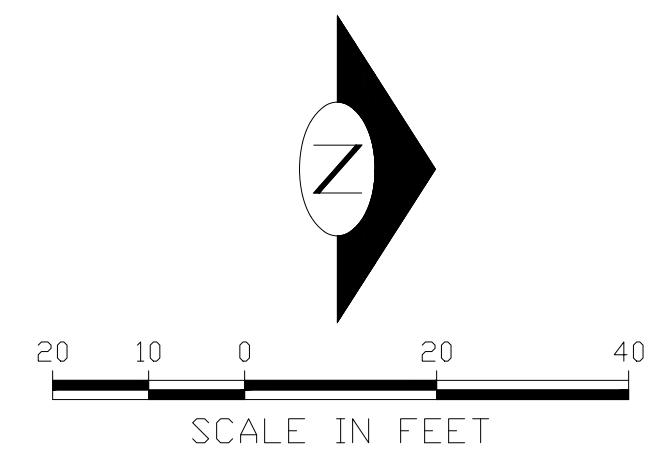
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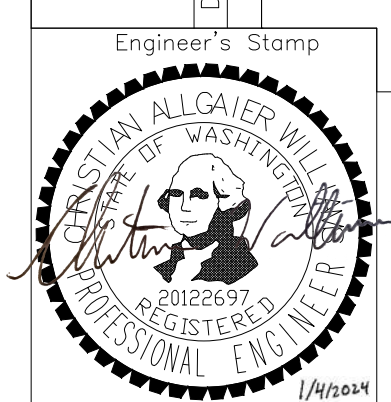
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29 OF 45

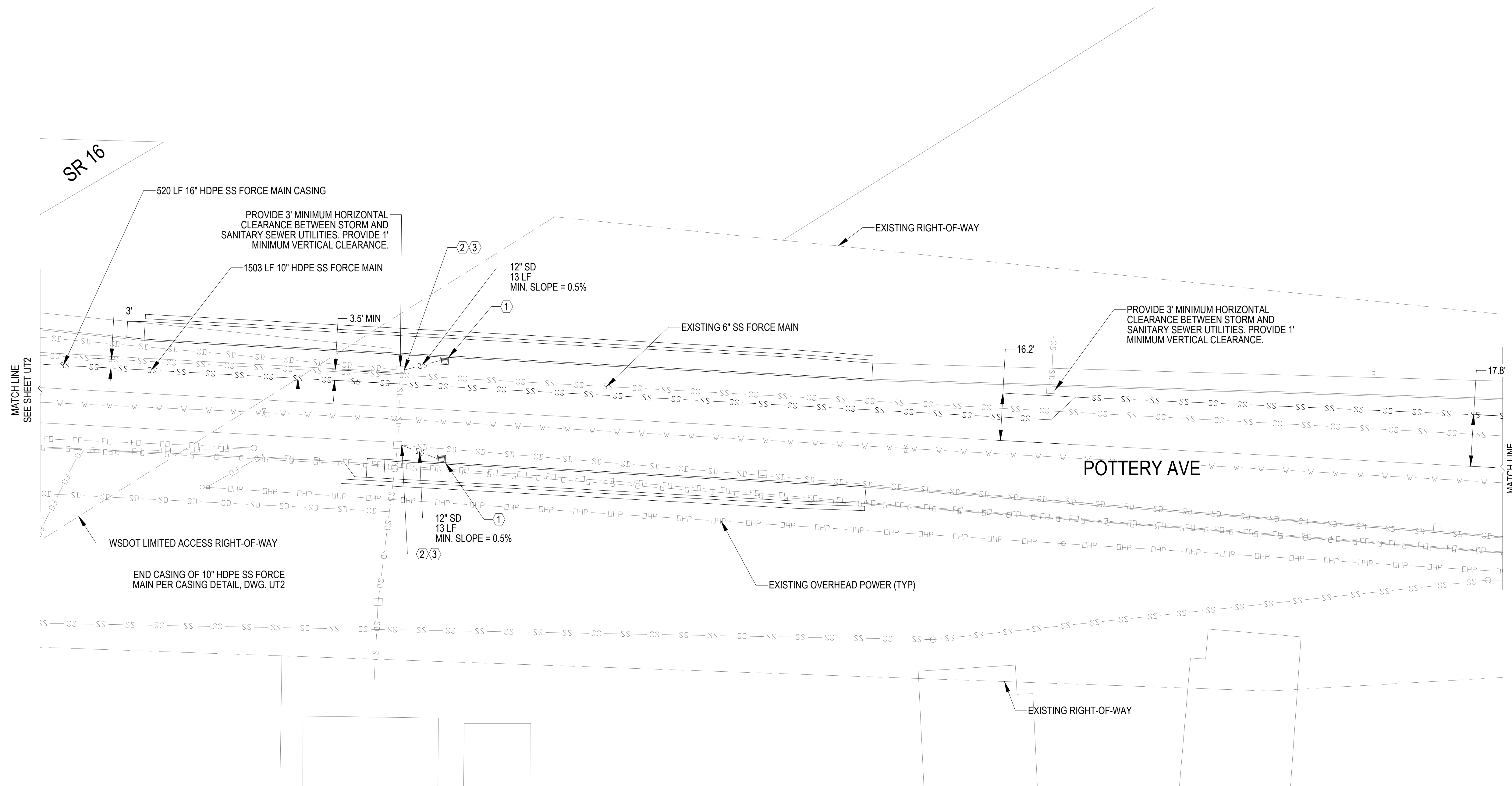


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All work done in accordance with the City of Port Orchard Public Works Engineering Standards and Specifications in effect on the date shown above, and supplemented by Project Provisions.
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SEC. 2 & 3 T.23N. R.1E. W.M.



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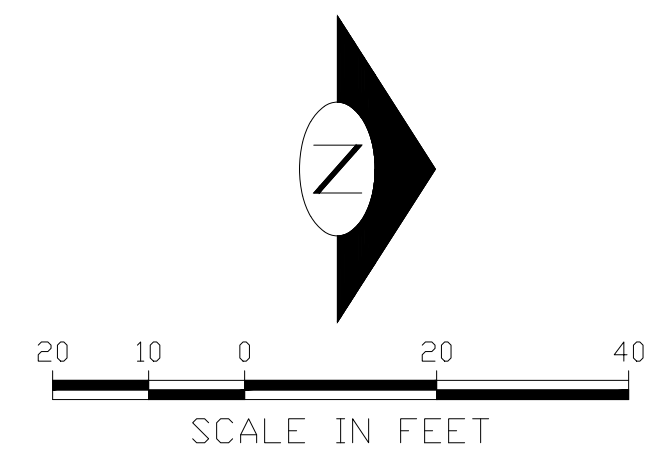
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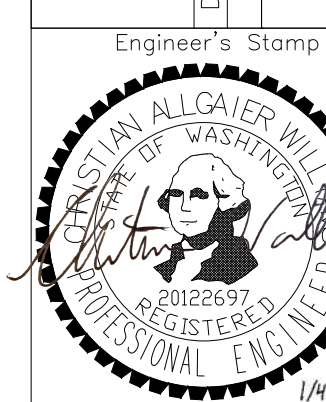
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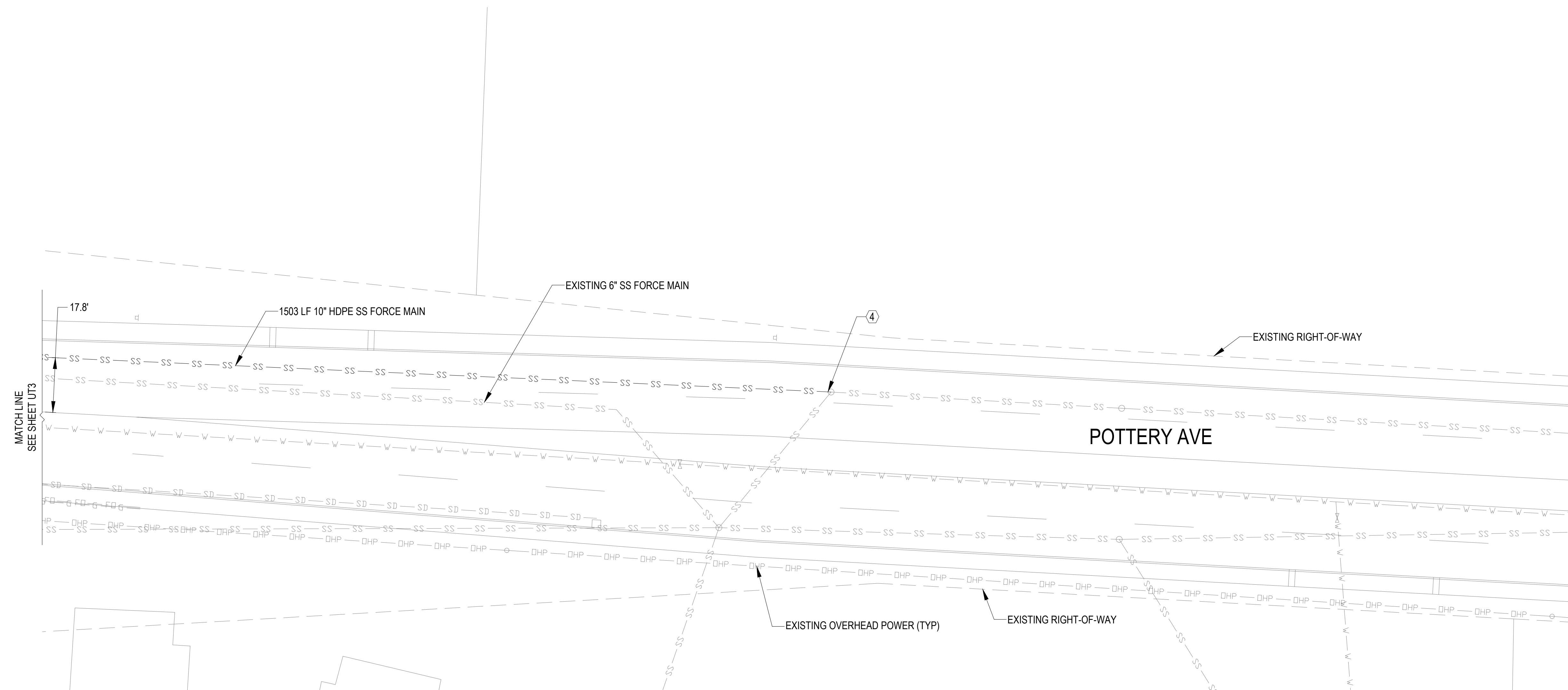
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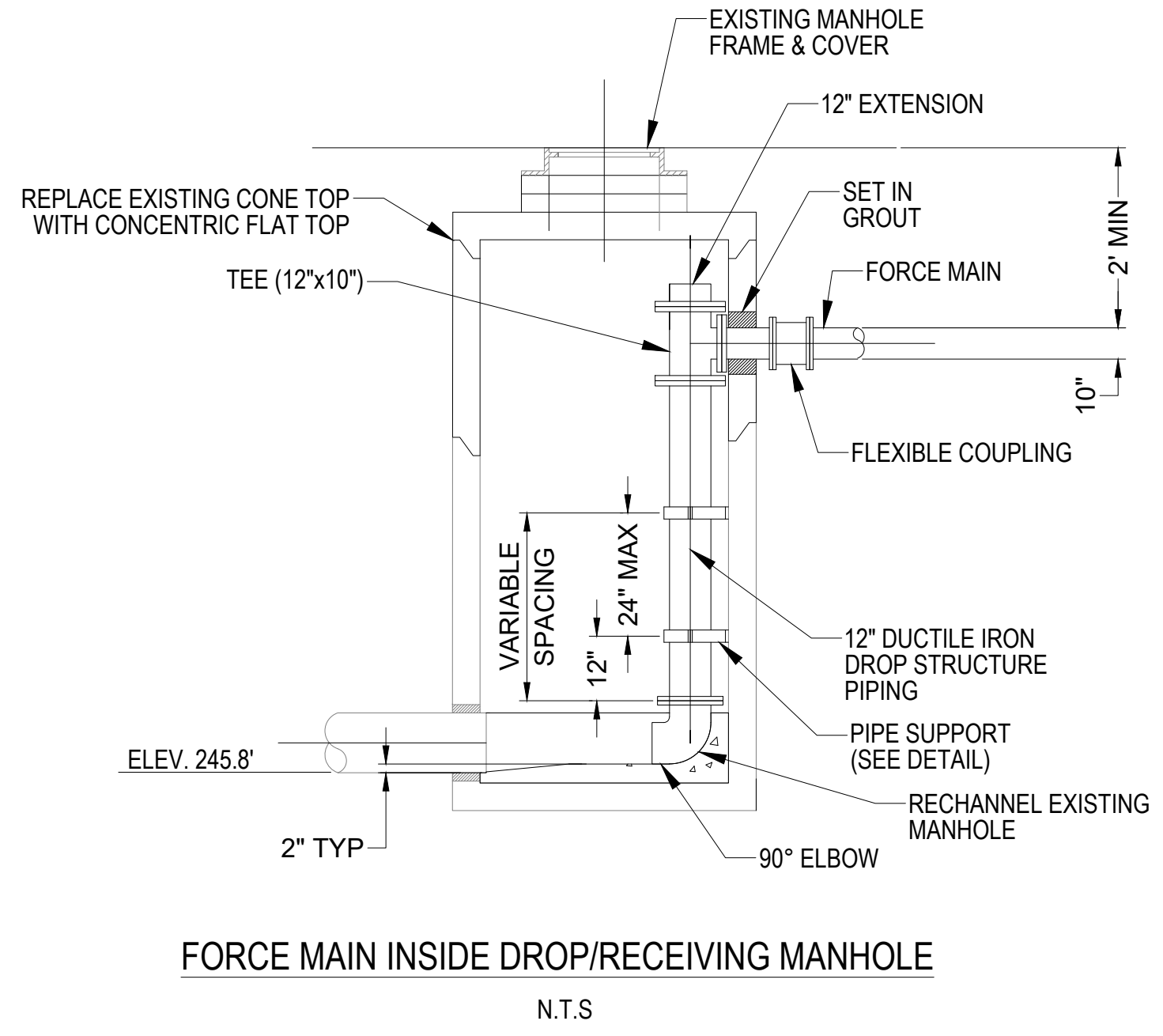


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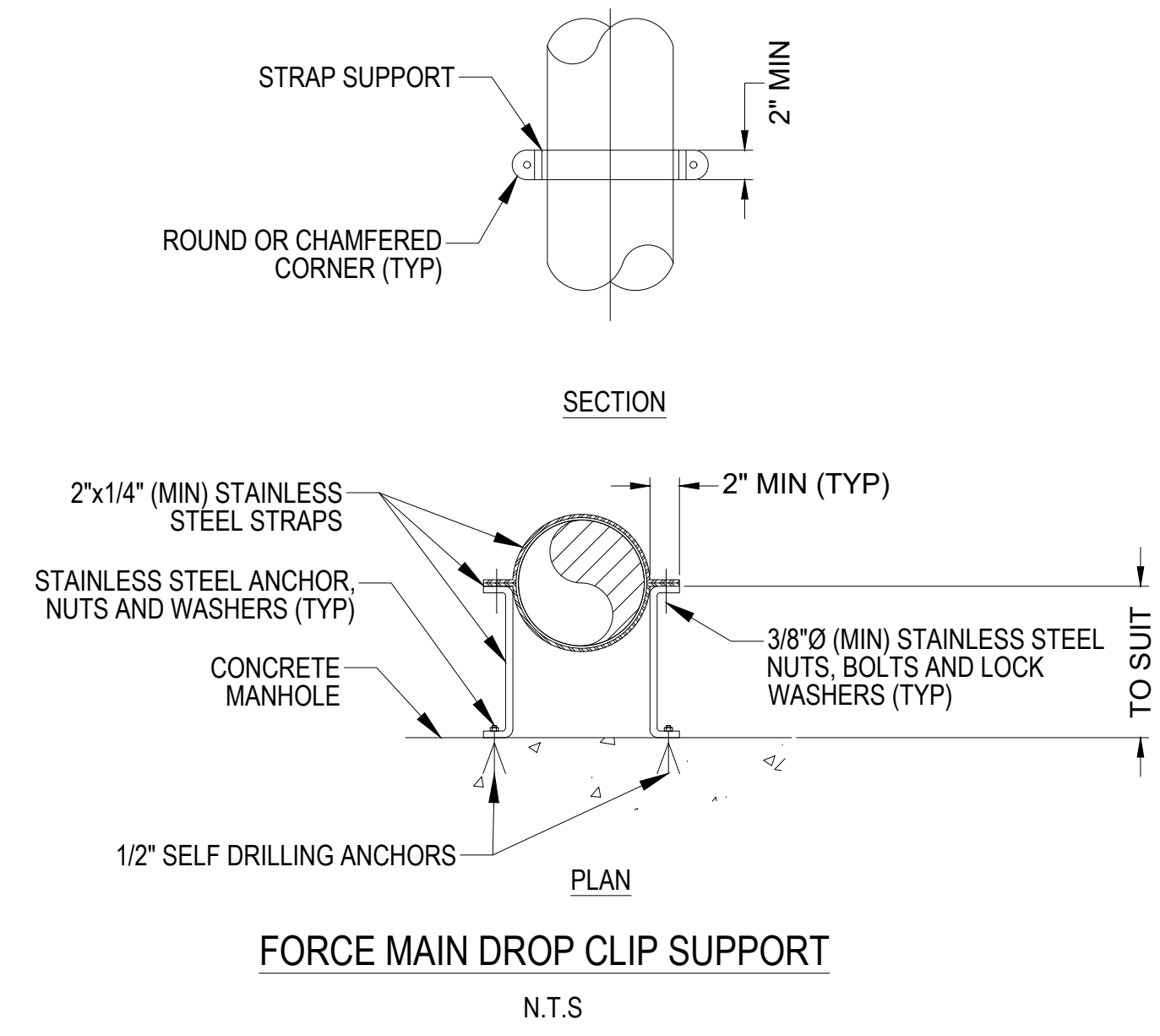


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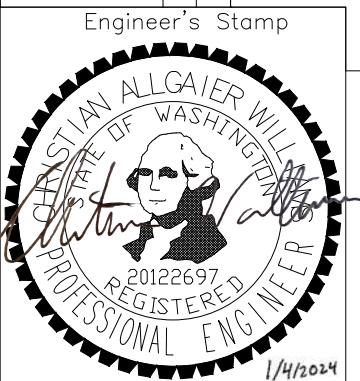
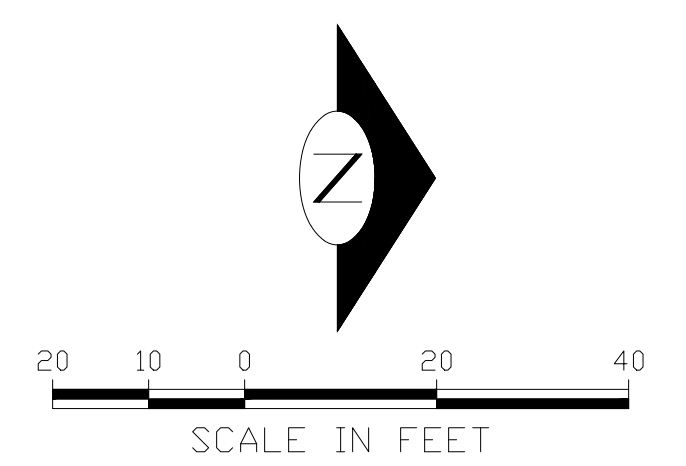
FORCE MAIN INSIDE DROP/RECEIVING MANHOLE
N.T.S



FORCE MAIN DROP CLIP SUPPORT
N.T.S

- GENERAL NOTES:**
- SEE DWG. GN1 FOR ADDITIONAL UTILITY NOTES.
 - STORM DRAIN INLET PROTECTION PER WSDOT STD. PLAN I-40.20 SHALL BE INSTALLED ON ALL NEW CATCH BASINS AT THE TIME OF INSTALLATION AND IN ALL EXISTING CATCH BASINS BEFORE COMMENCING WORK PER THESE PLANS.
 - UTILITY TRENCHING AND ROADWAY RESTORATION SHALL BE IN ACCORDANCE WITH COPO STD. PLANS 404, 801, AND 900.
 - ALL EXISTING UTILITIES SHALL BE PROTECTED UNLESS NOTED OTHERWISE.
 - THE DEPTH OF TRENCHING, INSTALLATION OF PIPES, AND BACKFILL SHALL BE SUCH AS TO GIVE A MINIMUM COVER OF 36 INCHES OVER THE TOP OF THE WATER MAIN.
 - EXISTING WATER MAIN SHALL REMAIN IN OPERATION UNTIL THE NEW WATER MAIN IS OPERATIONAL.
 - THE BOTTOM OF THE WATER MAIN SHALL BE 18 INCHES MINIMUM ABOVE THE TOP OF THE SEWER MAIN. IF IT IS DETERMINED THAT THIS IS NOT FEASIBLE, THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY.
 - THE DEPTH OF TRENCHING, INSTALLATION OF PIPES, AND BACKFILL SHALL BE SUCH AS TO GIVE A MINIMUM COVER OF 60 INCHES OVER THE TOP OF THE SEWER MAIN OR CASING PIPE.
 - ROADWAY AND SHOULDERS SHALL BE RESTORED IN-KIND UNLESS NOTED OTHERWISE.
 - IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO POTHOLE EXISTING UTILITIES TO CONFIRM DEPTHS AND CONFIRM THERE WILL BE NO CONFLICTS WITH PROPOSED INSTALLATIONS. THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY OF ANY ANTICIPATED CONFLICTS.
 - SEE DWG. GN1 FOR ADDITIONAL NOTES.

- CONSTRUCTION NOTES:**
- PROVIDE AND INSTALL CATCH BASIN TYPE 1 WITH RECTANGULAR VANED GRATE PER WSDOT STD. PLANS B-5.20 AND B-30.30
 - CONNECTION TO DRAINAGE STRUCTURE
 - PROVIDE AND INSTALL LOCKING SOLID METAL COVER FOR CATCH BASIN PER WSDOT STD. PLAN B-30.20
 - DROP MANHOLE CONNECTION PER DETAIL ON DWG. UT4
 - SALVAGE EXISTING WATER METER BOX TO COPO OPERATIONS AND MAINTENANCE. CAP EXISTING WATER SERVICE LINE. RELOCATE WATER METER TO NEW WATER METER BOX
 - PLACE THRUST BLOCK FOR 90° BEND PER COPO STD. PLANS 803-A AND 803-B
 - PROVIDE AND INSTALL WATER METER BOX, METER SETTER, AND WATER SERVICE LINE PER COPO STD. PLAN 860. EXISTING PRIVATE SIDE SERVICE LINES SHALL BE EXTENDED TO CONNECT TO NEW METER SETTER
 - DROP MANHOLE CONNECTION PER COPO STD. PLAN 925
 - PROVIDE AND INSTALL CATCH BASIN TYPE 1 WITH RECTANGULAR BI-DIRECTIONAL VANED GRATE PER WSDOT STD. PLANS B-5.20 AND B-30.40
 - WET TAP EXISTING 8" DUCTILE IRON WATER MAIN PER COPO STD. DETAIL 802. EXISTING MAIN SHALL BE POTHOLED PRIOR TO WET TAP TO CONFIRM MATERIAL
 - PROVIDE AND INSTALL SIDE SEWER SERVICE AND CLEANOUT PER COPO STD. PLANS 940 AND 941
 - REMOVE EXISTING BLIND FLANGE AND CONNECT WATER MAIN TO EXISTING VALVE ASSEMBLY
 - RELOCATE EXISTING FIRE HYDRANT ASSEMBLY AND CONNECT TO EXISTING VALVE ASSEMBLY PER COPO STD. PLAN 881
 - EXISTING AC WATER MAIN TO BE ABANDONED IN PLACE
 - REMOVE AND DISPOSE OF EXISTING VALVE BOX ASSEMBLY
 - PROVIDE AND INSTALL MANHOLE PER COPO STD. PLANS 920, 922, AND 924
 - EXISTING CAST IRON WATER MAIN TO BE ABANDONED IN PLACE



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Page 211 of 316

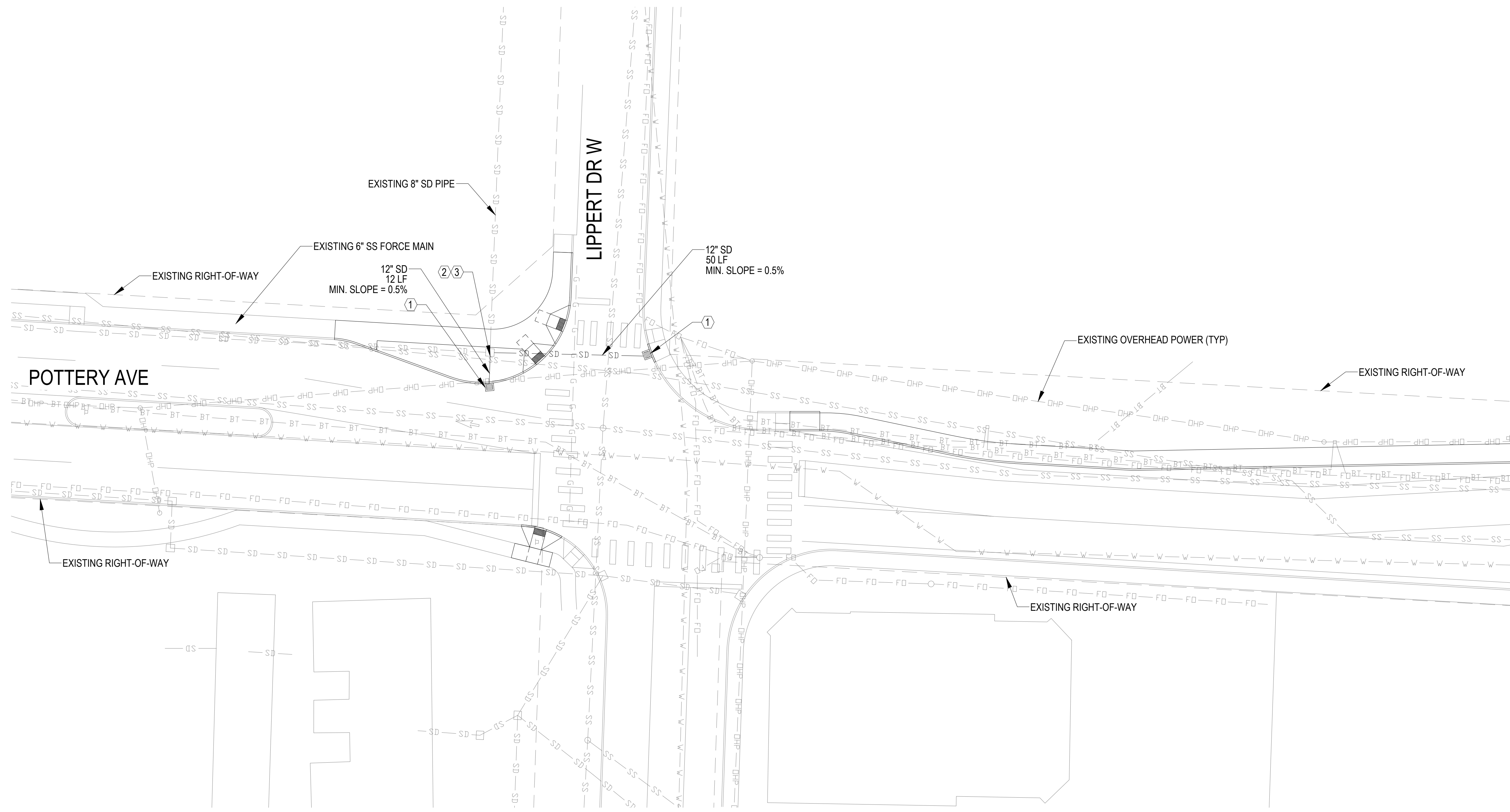


POTTERY AVE NON-MOTORIZED IMPROVEMENTS

UTILITY PLAN

PLAN NO.
UT4
SHEET
31 OF 45

SEC. 2 & 3 T.23N. R.1E. W.M.



GENERAL NOTES:

1. SEE DWG. GN1 FOR ADDITIONAL UTILITY NOTES.
2. STORM DRAIN INLET PROTECTION PER WSDOT STD. PLAN I-40.20 SHALL BE INSTALLED ON ALL NEW CATCH BASINS AT THE TIME OF INSTALLATION AND IN ALL EXISTING CATCH BASINS BEFORE COMMENCING WORK PER THESE PLANS.
3. UTILITY TRENCHING AND ROADWAY RESTORATION SHALL BE IN ACCORDANCE WITH COPO STD. PLANS 404, 801, AND 900.
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7. THE BOTTOM OF THE WATER MAIN SHALL BE 18 INCHES MINIMUM ABOVE THE TOP OF THE SEWER MAIN. IF IT IS DETERMINED THAT THIS IS NOT FEASIBLE, THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY.
8. THE DEPTH OF TRENCHING, INSTALLATION OF PIPES, AND BACKFILL SHALL BE SUCH AS TO GIVE A MINIMUM COVER OF 60 INCHES OVER THE TOP OF THE SEWER MAIN OR CASING PIPE.
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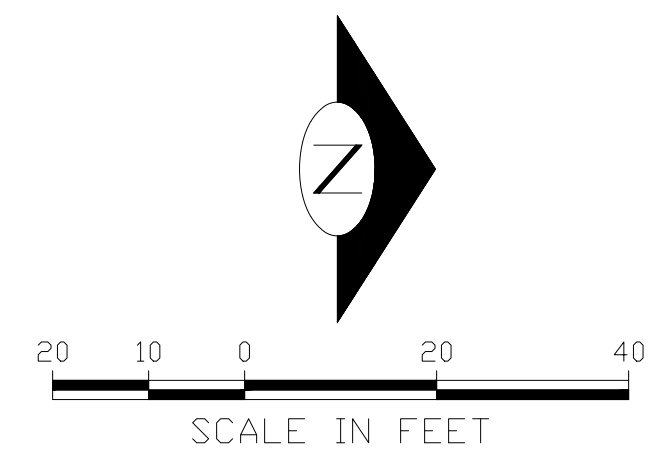
CONSTRUCTION NOTES:

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- ② CONNECTION TO DRAINAGE STRUCTURE
- ③ PROVIDE AND INSTALL LOCKING SOLID METAL COVER FOR CATCH BASIN PER WSDOT STD. PLAN B-30.20
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- ⑯ PROVIDE AND INSTALL MANHOLE PER COPO STD. PLANS 920, 922, AND 924
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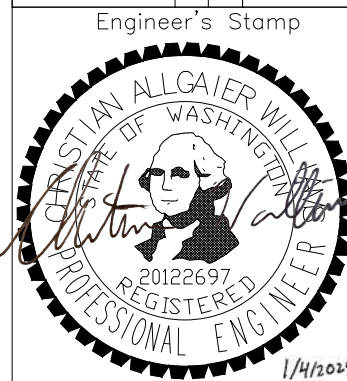
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- W — EXISTING WATER MAIN OR SERVICE
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POTTERY AVE NON-MOTORIZED IMPROVEMENTS

UTILITY PLAN

PLAN NO.

UT5

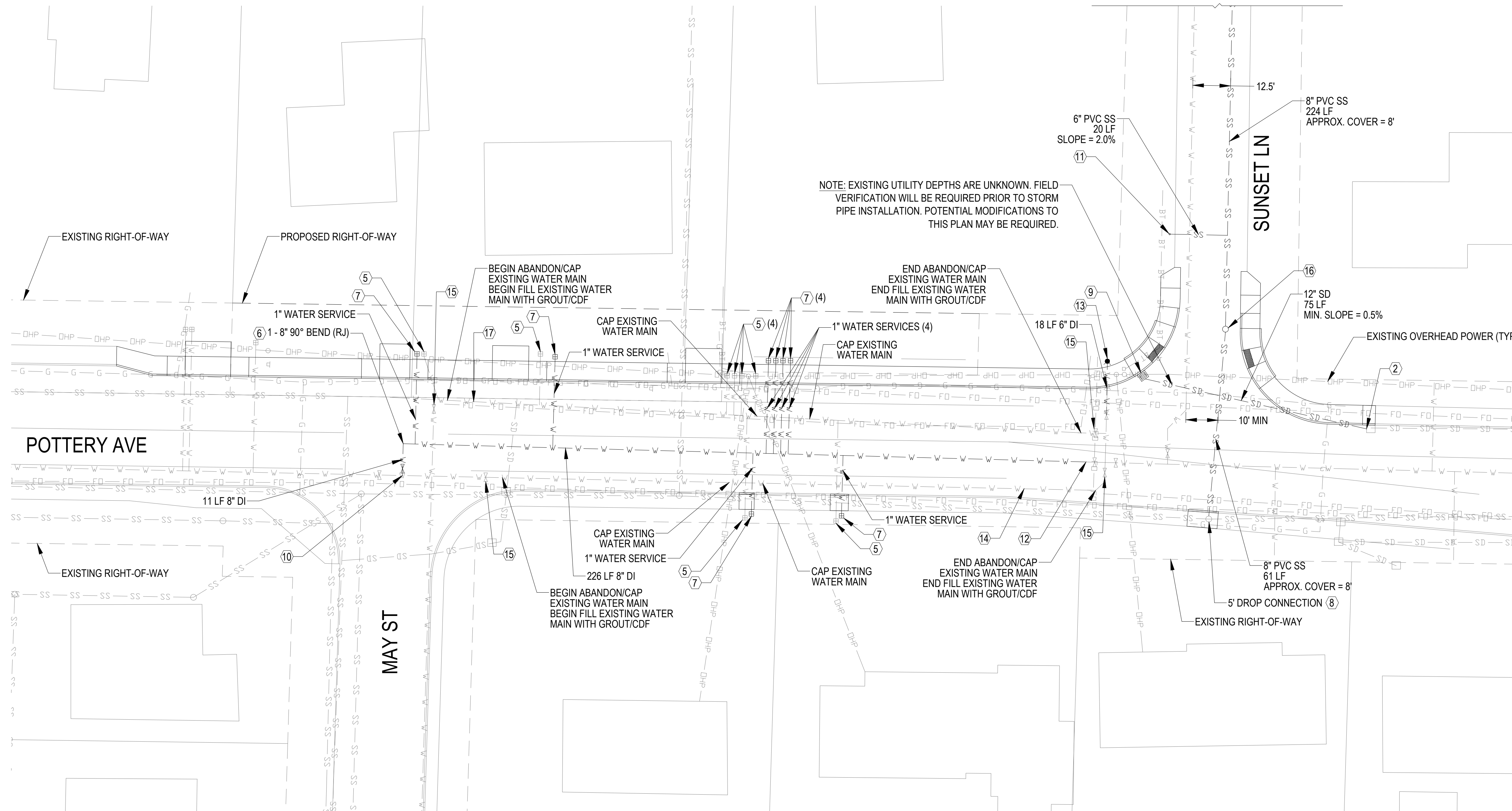
SHEET

32 OF 45

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SEC. 34 & 35 T.24N. R.1E. W.M.

MATCH LINE
SEE SHEET UT7



NOTE: EXISTING UTILITY DEPTHS ARE UNKNOWN. FIELD VERIFICATION WILL BE REQUIRED PRIOR TO STORM PIPE INSTALLATION. POTENTIAL MODIFICATIONS TO THIS PLAN MAY BE REQUIRED.

GENERAL NOTES:

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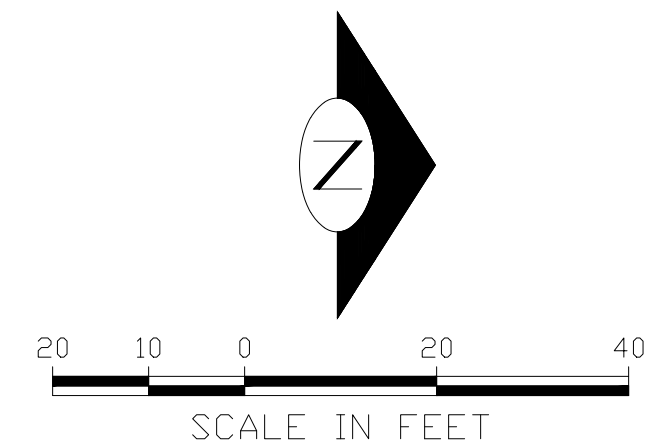
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- ⑤ SALVAGE EXISTING WATER METER BOX TO COPO OPERATIONS AND MAINTENANCE. CAP EXISTING WATER SERVICE LINE. RELOCATE WATER METER TO NEW WATER METER BOX
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- ⑫ REMOVE EXISTING BLIND FLANGE AND CONNECT WATER MAIN TO EXISTING VALVE ASSEMBLY
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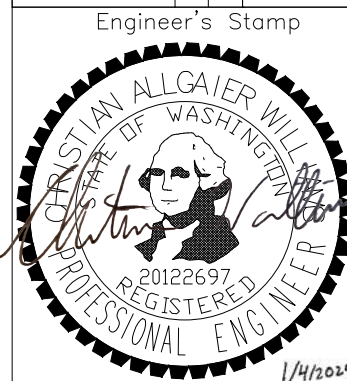
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POTTERY AVE NON-MOTORIZED IMPROVEMENTS

UTILITY PLAN

PLAN NO.

UT6

SHEET

33 OF 45

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Page 213 of 316

SEC. 34 T.24N. R.1E. W.M.



GENERAL NOTES:

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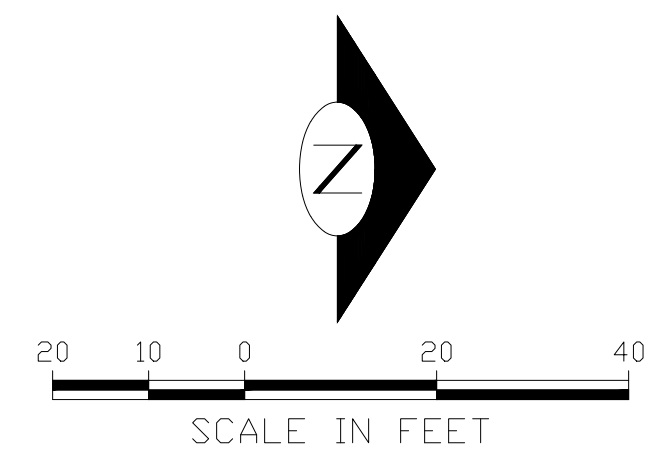
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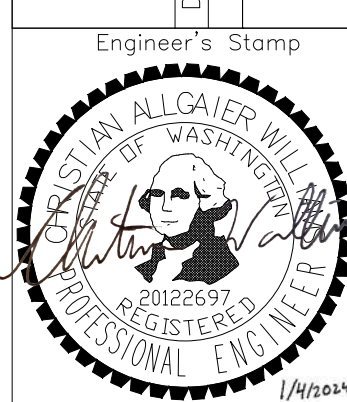
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POTTERY AVE NON-MOTORIZED IMPROVEMENTS

UTILITY PLAN

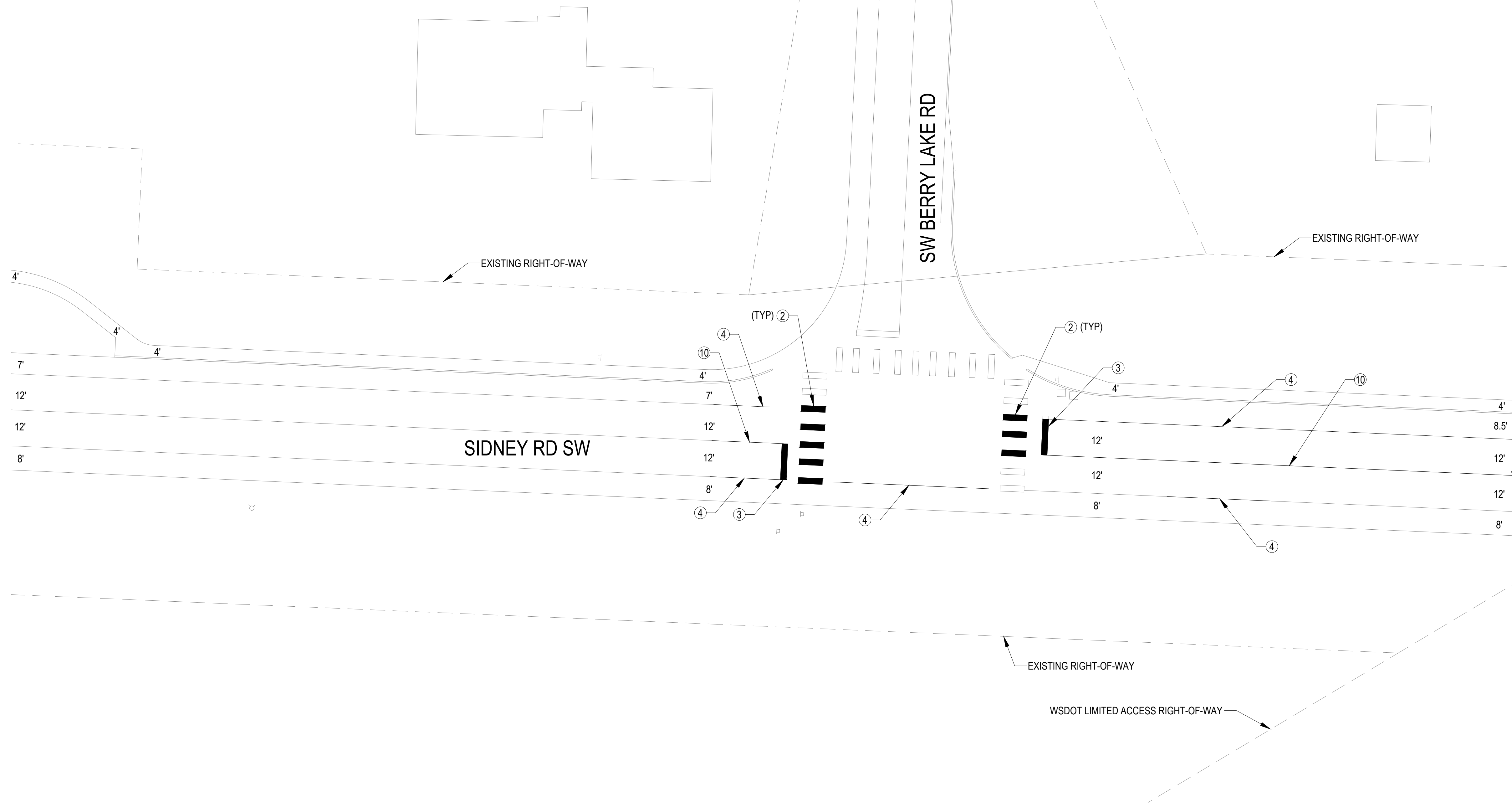
PLAN NO.

UT7

SHEET

34 OF 45

SEC. 2 & 3 T.23N. R.1E. W.M.



- GENERAL NOTES:**
- EXISTING PAVEMENT MARKINGS AND SIGNS THAT CONFLICT WITH CHANNELIZATION AND SIGNING PLAN SHALL BE REMOVED.
 - CONTRACTOR SHALL COORDINATE WITH COPO OPERATIONS AND MAINTENANCE PRIOR TO STRIPING AND SIGNING.
 - ALL SIGNS REMOVED THAT WILL NOT BE RELOCATED SHALL BE SALVAGED TO COPO OPERATIONS AND MAINTENANCE.
 - DIMENSIONS ADJACENT TO CURB AND GUTTER ARE MEASURED FROM FACE OF CURB.
 - ALL PLASTIC PAVEMENT MARKINGS SHALL UTILIZE TYPE A- LIQUID HOT APPLIED THERMOPLASTIC PER WSDOT SPECIFICATIONS UNLESS OTHERWISE NOTED.
 - BICYCLE LANE SYMBOLS SHALL BE SPACED 500' MAXIMUM.

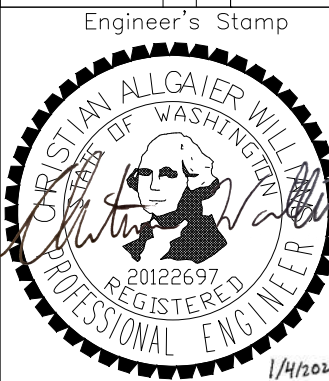
- CHANNELIZATION NOTES:**
- NOT USED
 - INSTALL PLASTIC CROSSWALK LINE PER COPO STD. PLAN 427
 - INSTALL PLASTIC 24" STOP LINE PER COPO STD. PLANS 427 AND 430
 - INSTALL PAINTED WHITE WIDE EDGE LINE PER WSDOT STD. PLAN M-20.10
 - INSTALL TORCH DOWN PLASTIC BICYCLE LANE SYMBOL PER WSDOT STD. PLAN M-9.50
 - INSTALL PAINTED WHITE EDGE LINE PER WSDOT STD. PLAN M-20.10
 - INSTALL 8" PAINTED WHITE CROSSHATCH MARKING PER WSDOT STD. PLAN M-24.60
 - INSTALL PLASTIC WHITE WIDE DOTTED EXTENSION LINE PER WSDOT STD. PLAN M-20.10
 - INSTALL PLASTIC WHITE DOTTED EXTENSION LINE PER WSDOT STD. PLAN M-20.10
 - INSTALL PAINTED DOUBLE YELLOW CENTERLINE PER COPO STD. PLAN 424
 - INSTALL PLASTIC TYPE 2L TRAFFIC ARROW PER COPO STD. PLAN 430. SEE COPO STD. PLAN 424 FOR TWLTL ARROW LAYOUT
 - INSTALL PLASTIC WHITE WIDE SOLID LANE LINE PER WSDOT STD. PLAN M-20.10
 - INSTALL PAINTED YELLOW TWO-WAY LEFT-TURN CENTERLINE PER COPO STD. PLAN 424
 - INSTALL PAINTED YELLOW EDGE LINE PER WSDOT STD. PLAN M-20.10
 - INSTALL 8" PAINTED YELLOW CROSSHATCH MARKING PER WSDOT STD. PLAN M-24.60

- LEGEND:**
- NEW SIGN
 - REMOVE EXISTING SIGN
 - RELOCATE SIGN
 - NEW SIGN
 - EXISTING SIGN

MATCH LINE
SEE SHEET CH2

DATE	REVISION	TYPE	CHECK'D	REVIEW'D

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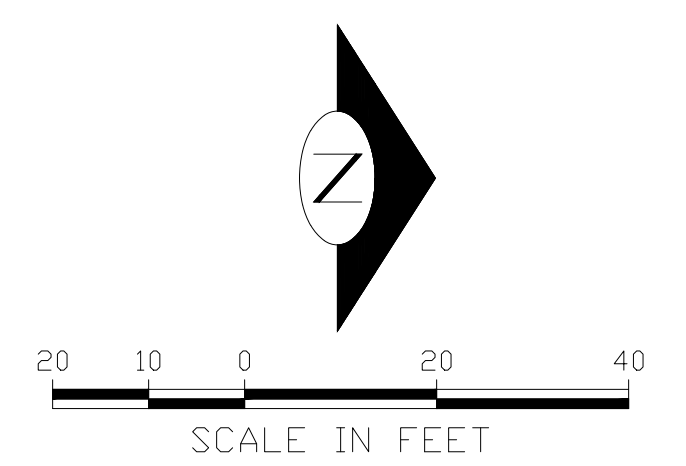


CITY OF PORT ORCHARD CAPITAL PROJECTS
216 PROSPECT STREET, PORT ORCHARD, WA 98366
PHONE: 360.876.4991

NAME OR INITIALS AND DATE		NAME OR INITIALS AND DATE	
DESIGNED	CAW OCT 2023	PROJECT MANAGER:	K. CHRIS HAMMER
CHECKED	KCH OCT 2023	REVIEWED:	OCT 2023
DRAWN	CAW OCT 2023	REVISED AS-BUILT	
CHECKED	KCH OCT 2023		

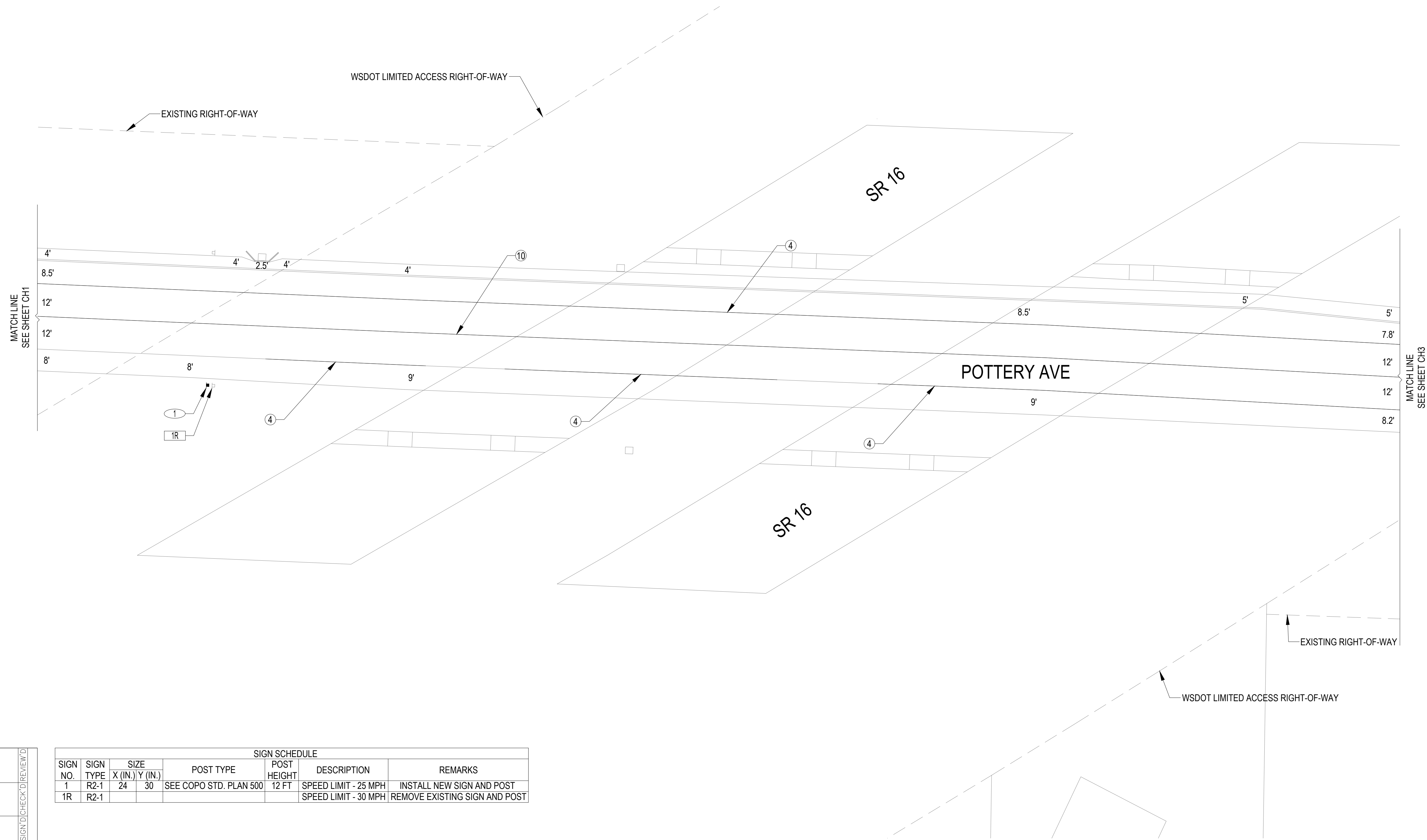


POTTERY AVE NON-MOTORIZED IMPROVEMENTS
CHANNELIZATION AND SIGNING PLAN



PLAN NO.
CH1
SHEET
35 OF 45

SEC. 2 & 3 T.23N. R.1E. W.M.



- GENERAL NOTES:**
- EXISTING PAVEMENT MARKINGS AND SIGNS THAT CONFLICT WITH CHANNELIZATION AND SIGNING PLAN SHALL BE REMOVED.
 - CONTRACTOR SHALL COORDINATE WITH COPO OPERATIONS AND MAINTENANCE PRIOR TO STRIPING AND SIGNING.
 - ALL SIGNS REMOVED THAT WILL NOT BE RELOCATED SHALL BE SALVAGED TO COPO OPERATIONS AND MAINTENANCE.
 - DIMENSIONS ADJACENT TO CURB AND GUTTER ARE MEASURED FROM FACE OF CURB.
 - ALL PLASTIC PAVEMENT MARKINGS SHALL UTILIZE TYPE A- LIQUID HOT APPLIED THERMOPLASTIC PER WSDOT SPECIFICATIONS UNLESS OTHERWISE NOTED.
 - BICYCLE LANE SYMBOLS SHALL BE SPACED 500' MAXIMUM.

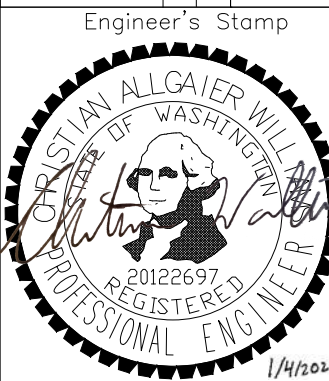
- CHANNELIZATION NOTES:**
- NOT USED
 - INSTALL PLASTIC CROSSWALK LINE PER COPO STD. PLAN 427
 - INSTALL PLASTIC 24" STOP LINE PER COPO STD. PLANS 427 AND 430
 - INSTALL PAINTED WHITE WIDE EDGE LINE PER WSDOT STD. PLAN M-20.10
 - INSTALL TORCH DOWN PLASTIC BICYCLE LANE SYMBOL PER WSDOT STD. PLAN M-9.50
 - INSTALL PAINTED WHITE EDGE LINE PER WSDOT STD. PLAN M-20.10
 - INSTALL 8" PAINTED WHITE CROSSHATCH MARKING PER WSDOT STD. PLAN M-24.60
 - INSTALL PLASTIC WHITE WIDE DOTTED EXTENSION LINE PER WSDOT STD. PLAN M-20.10
 - INSTALL PLASTIC WHITE DOTTED EXTENSION LINE PER WSDOT STD. PLAN M-20.10
 - INSTALL PAINTED DOUBLE YELLOW CENTERLINE PER COPO STD. PLAN 424
 - INSTALL PLASTIC TYPE 2L TRAFFIC ARROW PER COPO STD. PLAN 430. SEE COPO STD. PLAN 424 FOR TWLTL ARROW LAYOUT
 - INSTALL PLASTIC WHITE WIDE SOLID LANE LINE PER WSDOT STD. PLAN M-20.10
 - INSTALL PAINTED YELLOW TWO-WAY LEFT-TURN CENTERLINE PER COPO STD. PLAN 424
 - INSTALL PAINTED YELLOW EDGE LINE PER WSDOT STD. PLAN M-20.10
 - INSTALL 8" PAINTED YELLOW CROSSHATCH MARKING PER WSDOT STD. PLAN M-24.60

- LEGEND:**
- NEW SIGN
 - REMOVE EXISTING SIGN
 - RELOCATE SIGN
 - NEW SIGN
 - EXISTING SIGN

SIGN SCHEDULE							
SIGN NO.	SIGN TYPE	SIZE	X (IN.)	Y (IN.)	POST TYPE	POST HEIGHT	REMARKS
1	R2-1	24	30		SEE COPO STD. PLAN 500	12 FT	SPEED LIMIT - 25 MPH INSTALL NEW SIGN AND POST
1R	R2-1						SPEED LIMIT - 30 MPH REMOVE EXISTING SIGN AND POST

DATE	REVISION	TYPE	CHECKED	REVIEWED

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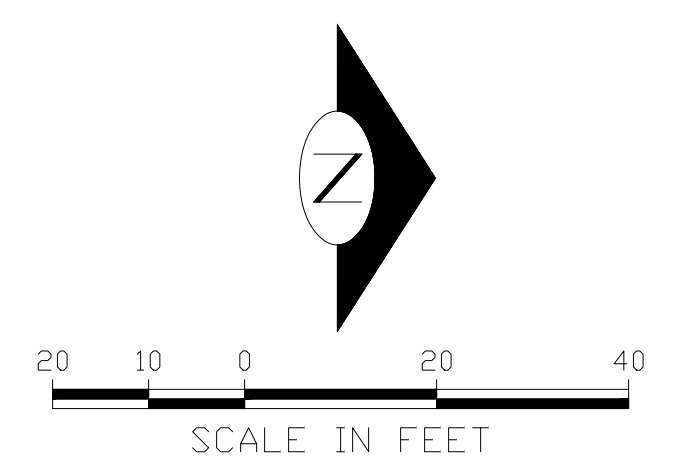


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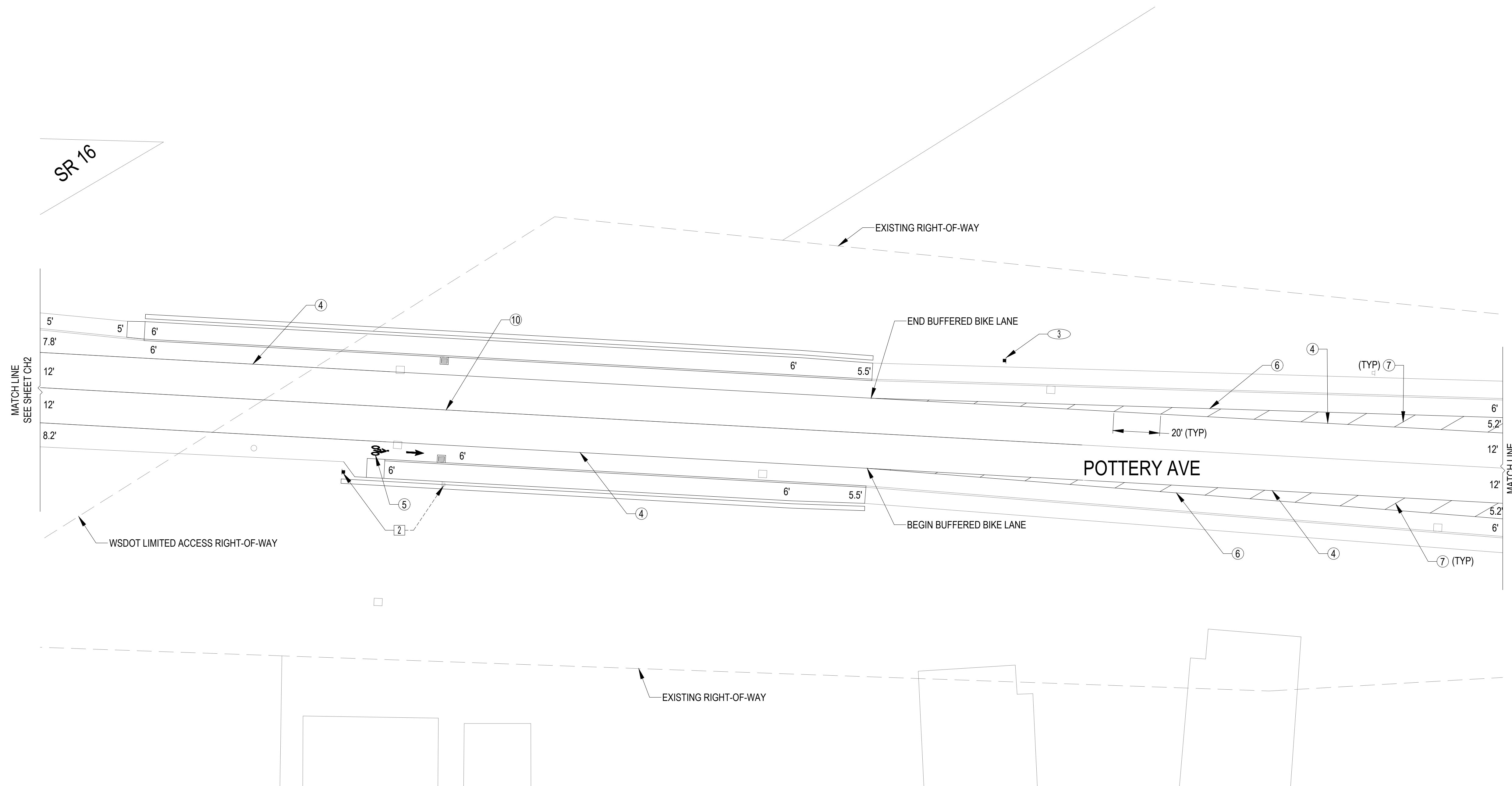


POTTERY AVE NON-MOTORIZED IMPROVEMENTS
CHANNELIZATION AND SIGNING PLAN



PLAN NO.
CH2
SHEET
36 OF 45

SEC. 2 & 3 T.23N. R.1E. W.M.



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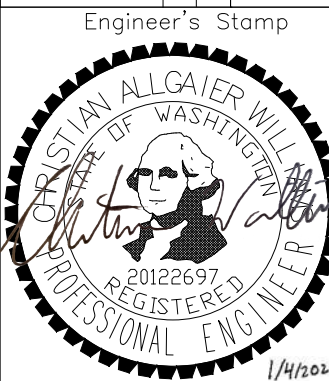
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- LEGEND:**
- NEW SIGN
 - REMOVE EXISTING SIGN
 - RELOCATE SIGN
 - NEW SIGN
 - EXISTING SIGN

SIGN SCHEDULE							
SIGN NO.	SIGN TYPE	SIZE X (IN.) Y (IN.)		POST TYPE	POST HEIGHT	DESCRIPTION	REMARKS
2	W6-1	EX	EX	SEE COPO STD. PLAN 500	12 FT	DIVIDED HIGHWAY BIKE LANE	RELOCATE EXISTING SIGN TO NEW POST
3	R3-17	24	18	SEE COPO STD. PLAN 500	12 FT	ENDS PLAQUE	INSTALL SIGN ON NEW POST
	R3-17bP	24	8				INSTALL SIGN ON NEW POST UNDER R3-17

DESIGN'D	CHECK'D	REVIEW'D
REVISION	TYPE	REVISIONS
DATE		

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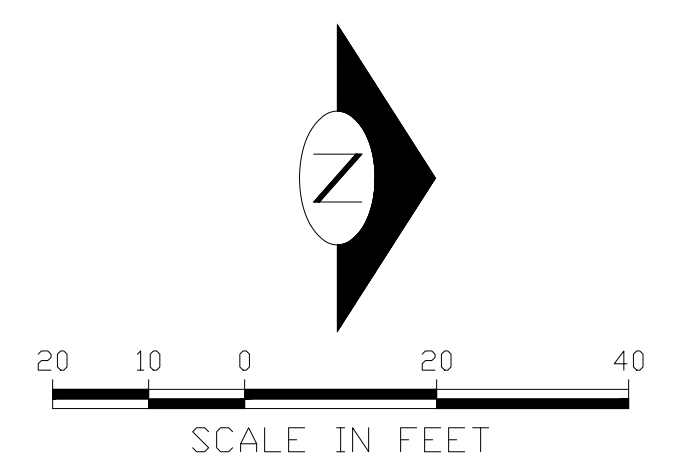


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DRAWN	CAW OCT 2023		
CHECKED	KCH OCT 2023	REVISED AS-BUILT	



POTTERY AVE NON-MOTORIZED IMPROVEMENTS
 CHANNELIZATION AND SIGNING PLAN



PLAN NO.
CH3
SHEET
37 OF 45

SEC. 2 & 3 T.23N. R.1E. W.M.

GENERAL NOTES:

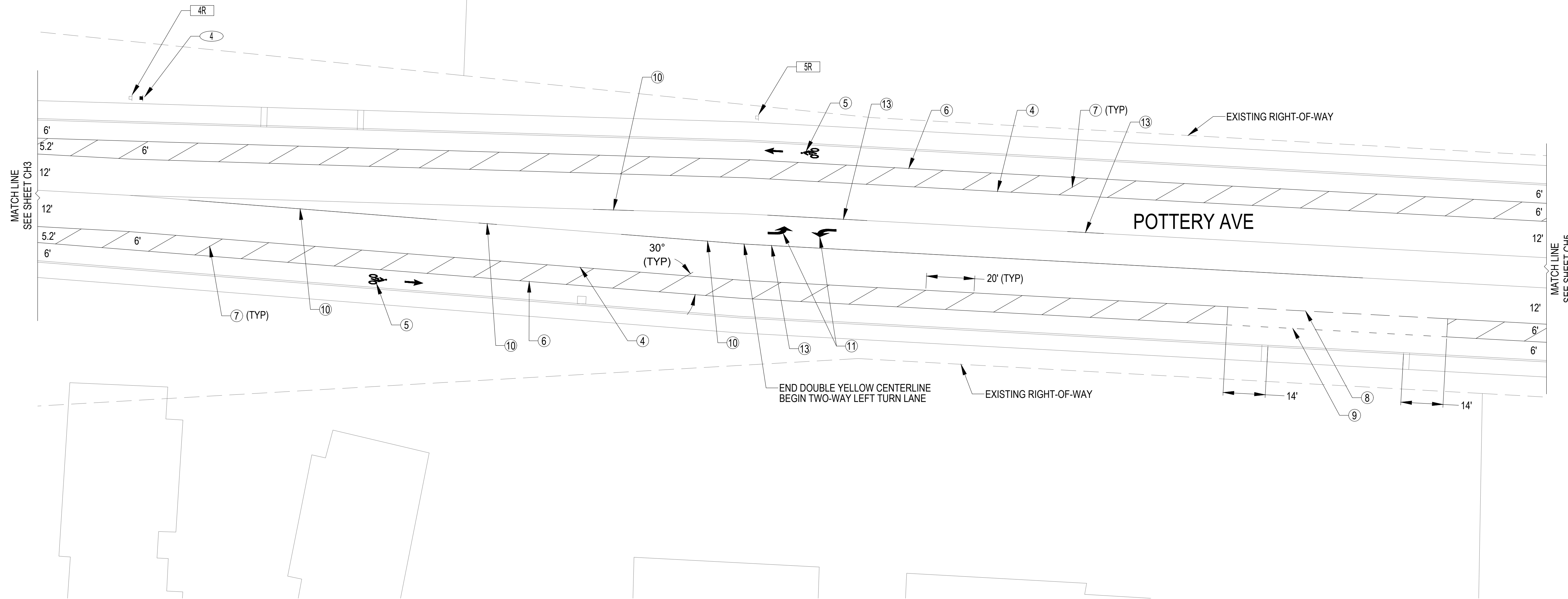
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CHANNELIZATION NOTES:

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- ③ INSTALL PLASTIC 24" STOP LINE PER COPO STD. PLANS 427 AND 430
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LEGEND:

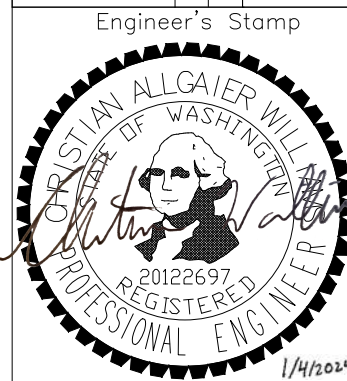
- ⊗ NEW SIGN
- ⊗ XR REMOVE EXISTING SIGN
- ⊗ RELOCATE SIGN
- NEW SIGN
- EXISTING SIGN



SIGN SCHEDULE							
SIGN NO.	SIGN TYPE	SIZE	X (IN.)	Y (IN.)	POST TYPE	POST HEIGHT	REMARKS
4	R2-1	24	30		SEE COPO STD. PLAN 500	14 FT	SPEED LIMIT - 25 MPH END SCHOOL ZONE INSTALL NEW SIGN AND POST W/ 36" HD 7 GA ANCHOR INSTALL EXISTING SIGN ON NEW POST
4R	R2-1	EX	EX				SPEED LIMIT - 30 MPH REMOVE EXISTING SIGN AND POST
5R	W4-2	EX	EX				LANE ENDS REMOVE EXISTING SIGN AND POST

DATE	REVISION	TYPE	REVISIONS

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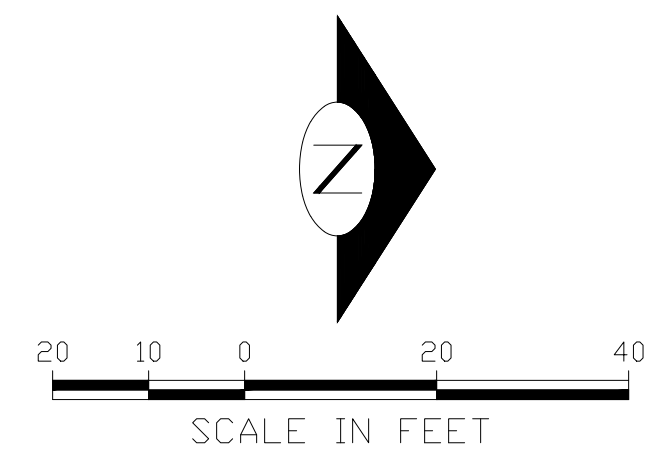
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POTTERY AVE NON-MOTORIZED IMPROVEMENTS
CHANNELIZATION AND SIGNING PLAN

PLAN NO.
CH4
SHEET
38 OF 45



SEC. 2 & 3 T.23N. R.1E. W.M.


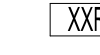



GENERAL NOTES:

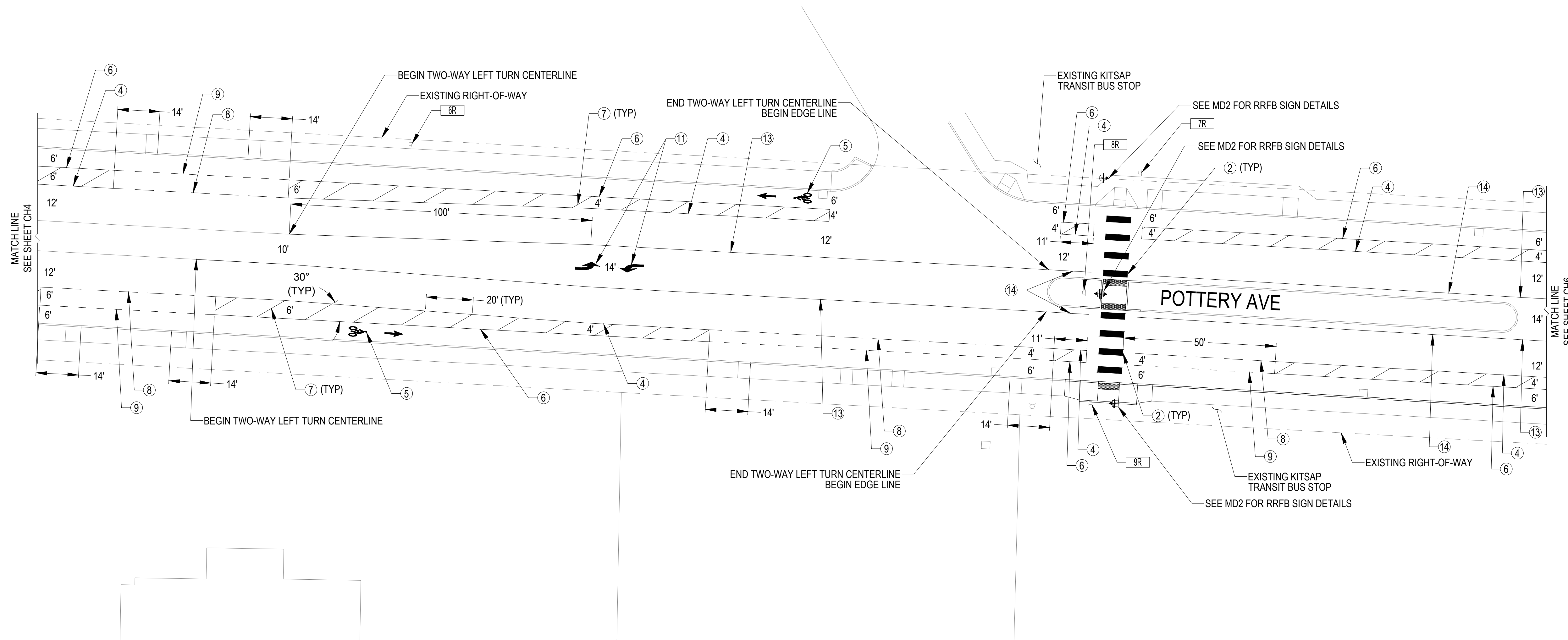
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CHANNELIZATION NOTES:

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LEGEND:

-  NEW SIGN
-  REMOVE EXISTING SIGN
-  RELOCATE SIGN
-  NEW SIGN
-  EXISTING SIGN



SIGN SCHEDULE						
SIGN NO.	SIGN TYPE	SIZE X (IN.) Y (IN.)		POST TYPE	POST HEIGHT	REMARKS
6R	SPECIAL	EX	EX			RIGHT LANE ENDS SCHOOL REMOVE EXISTING SIGN AND POST
7R	W16-7P	EX	EX			DIAGONAL ARROW SCHOOL REMOVE EXISTING SIGNS AND POST
8R	W16-7P	EX	EX			DIAGONAL ARROW SCHOOL REMOVE EXISTING SIGNS AND POST
9R	W16-7P	EX	EX			DIAGONAL ARROW SCHOOL REMOVE EXISTING SIGNS AND POST

DATE	REVISION TYPE	REVISIONS
	DESIGN'D	CHECK'D

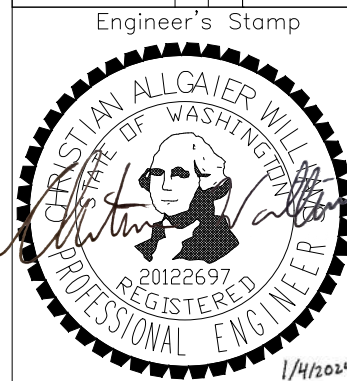
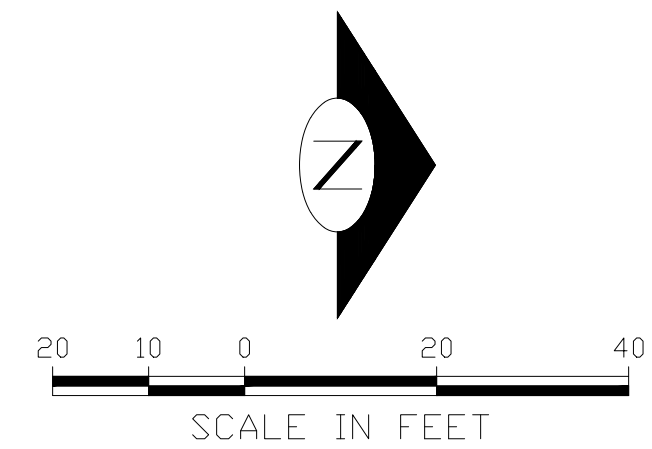
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POTTERY AVE NON-MOTORIZED IMPROVEMENTS
 CHANNELIZATION AND SIGNING PLAN



SEC. 2 & 3 T.23N. R.1E. W.M.






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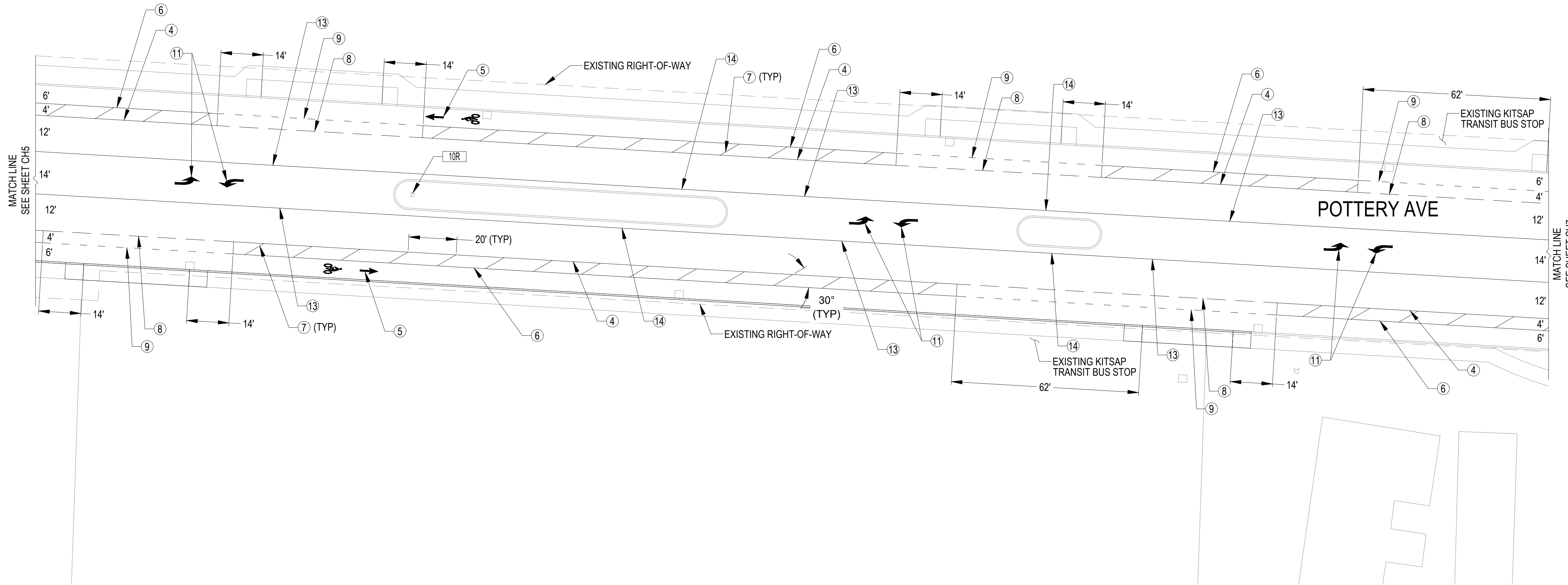
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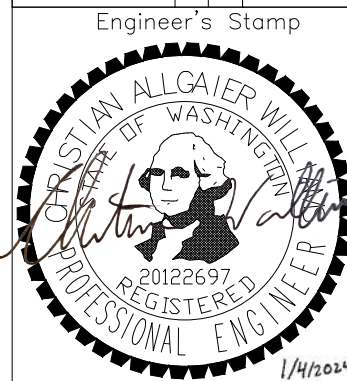
-  NEW SIGN
-  REMOVE EXISTING SIGN
-  RELOCATE SIGN
-  NEW SIGN
-  EXISTING SIGN



SIGN SCHEDULE							
SIGN NO.	SIGN TYPE	SIZE X (IN.)	SIZE Y (IN.)	POST TYPE	POST HEIGHT	DESCRIPTION	REMARKS
10R	R3-7	EX	EX			LEFT LANE MUST TURN LEFT	REMOVE EXISTING SIGN AND POST

DATE	REVISION TYPE	REVISIONS
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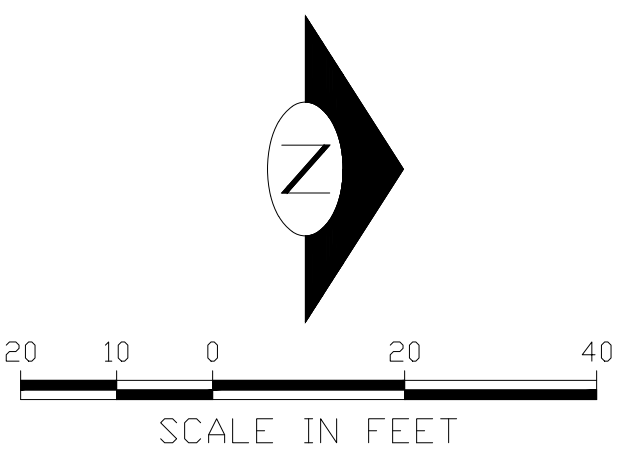
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POTTERY AVE NON-MOTORIZED IMPROVEMENTS
 CHANNELIZATION AND SIGNING PLAN

PLAN NO.
CH6
 SHEET
 40 OF 45



SEC. 2 & 3 T.23N. R.1E. W.M.


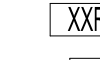



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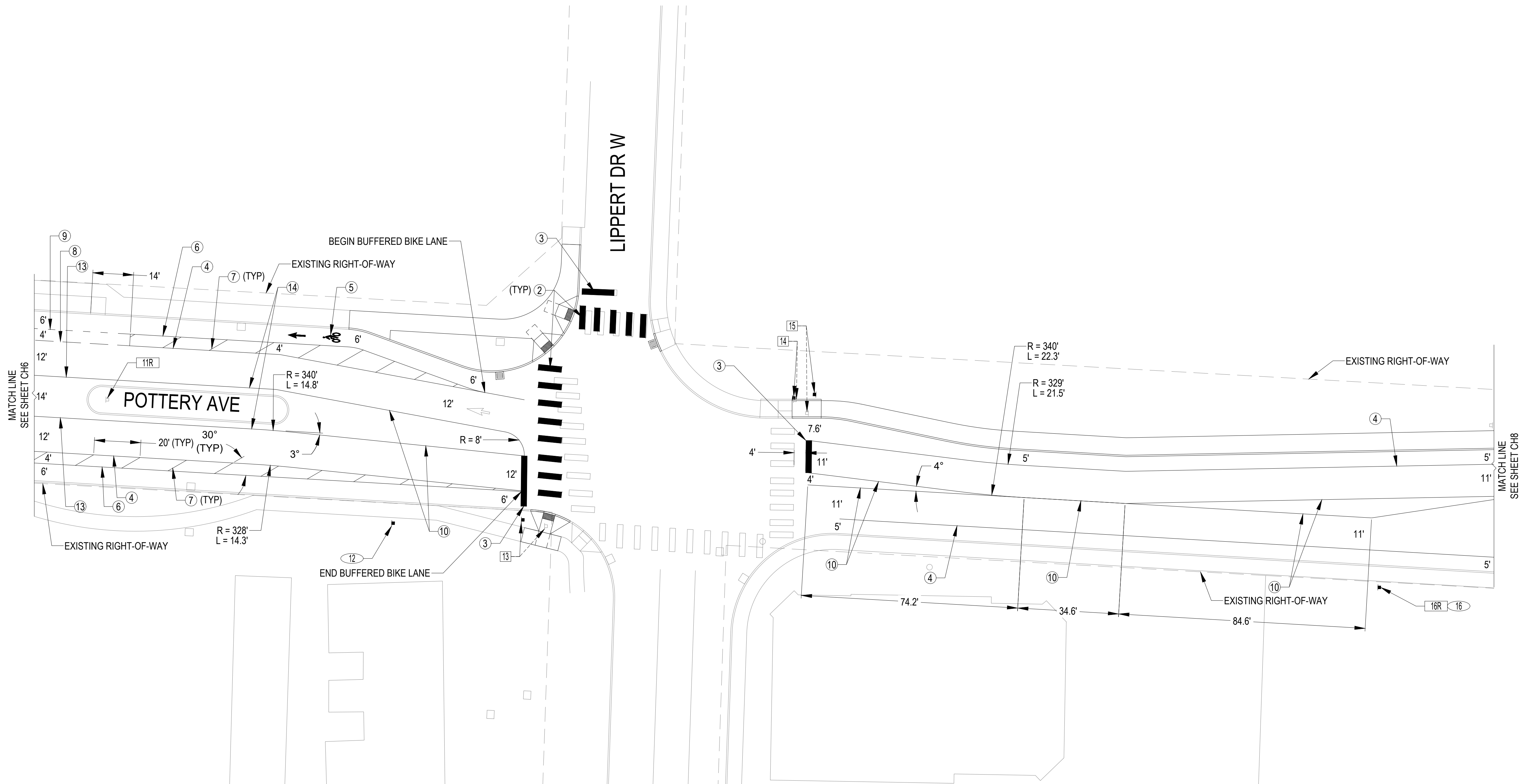
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- INSTALL PLASTIC WHITE DOTTED EXTENSION LINE PER WSDOT STD. PLAN M-20.10
- INSTALL PAINTED DOUBLE YELLOW CENTERLINE PER COPO STD. PLAN 424
- INSTALL PLASTIC TYPE 2L TRAFFIC ARROW PER COPO STD. PLAN 430. SEE COPO STD. PLAN 424 FOR TWLTL ARROW LAYOUT
- INSTALL PLASTIC WHITE WIDE SOLID LANE LINE PER WSDOT STD. PLAN M-20.10
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- INSTALL PAINTED YELLOW EDGE LINE PER WSDOT STD. PLAN M-20.10
- INSTALL 8" PAINTED YELLOW CROSSHATCH MARKING PER WSDOT STD. PLAN M-24.60

LEGEND:

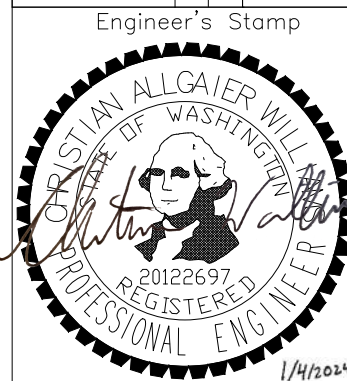
-  NEW SIGN
-  REMOVE EXISTING SIGN
-  RELOCATE SIGN
-  NEW SIGN
-  EXISTING SIGN



SIGN SCHEDULE						
SIGN NO.	SIGN TYPE	SIZE	POST TYPE	POST HEIGHT	DESCRIPTION	REMARKS
11R	R3-7	24 EX	EX		LEFT LANE MUST TURN LEFT BIKE LANE	REMOVE EXISTING SIGN AND POST
12	R3-17	24 18	SEE COPO STD. PLAN 500	12 FT	BIKE LANE ENDS PLAQUE	INSTALL SIGN ON NEW POST
13	R1-1	EX EX	EXISTING STEEL	EX	STOP	RELOCATE EXISTING SIGN AND POST
14	SPECIAL	EX EX	EXISTING STEEL	EX	CROSSING INSTRUCTIONS	RELOCATE EXISTING SIGN AND POST
15	R1-1	EX EX	EXISTING STEEL	EX	STOP	RELOCATE EXISTING SIGN AND POST
16R	R2-1	EX EX			SPEED LIMIT - 30 MPH	REMOVE EXISTING SIGN
16	R2-1	24 30	SEE COPO STD. PLAN 500	12 FT	SPEED LIMIT - 25 MPH	PLACE SIGN ON EXISTING STREET LIGHT POLE

DATE	REVISION	TYPE	REVISIONS
			DESIGN CHECK REVIEW D

DISCLAIMER: THIS PLAN WAS DEVELOPED FROM CITY OF PORT ORCHARD AND KITSAP COUNTY GIS INFORMATION ALONG WITH AERIAL IMAGERY AND MAY NOT REPRESENT TRUE CONDITIONS IN THE FIELD.



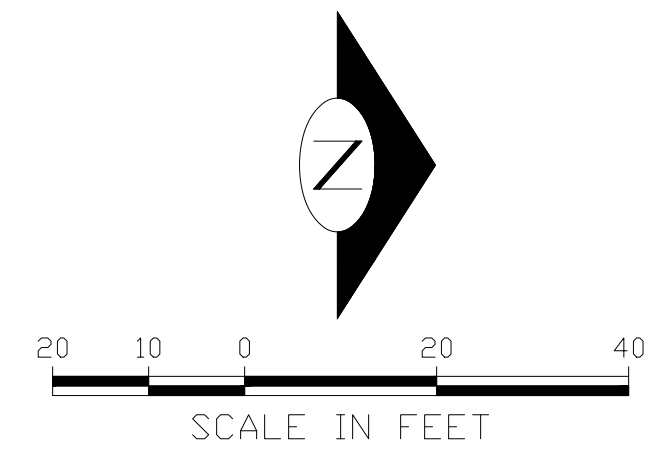
CITY OF PORT ORCHARD CAPITAL PROJECTS
 216 PROSPECT STREET, PORT ORCHARD, WA 98366
 PHONE: 360.876.4991

NAME OR INITIALS AND DATE		NAME OR INITIALS AND DATE	
DESIGNED	CAW OCT 2023	PROJECT MANAGER:	K. CHRIS HAMMER
CHECKED	KCH OCT 2023	REVIEWED:	OCT 2023
DRAWN	CAW OCT 2023		
CHECKED	KCH OCT 2023	REVISED AS-BUILT	

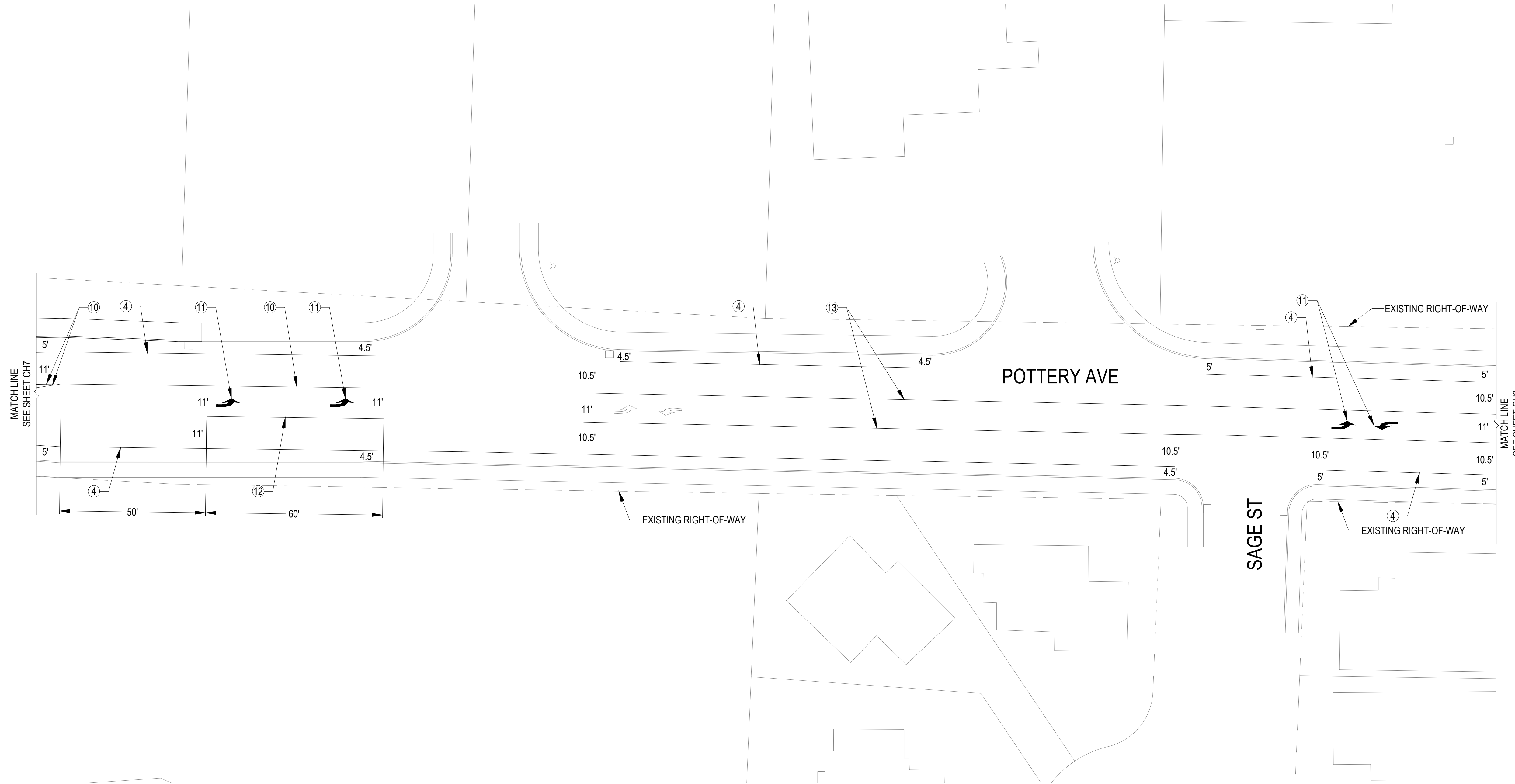


POTTERY AVE NON-MOTORIZED IMPROVEMENTS
 CHANNELIZATION AND SIGNING PLAN

PLAN NO.
CH7
 SHEET
 41 OF 45



SEC. 2 & 3 T.23N. R.1E. W.M. & SEC. 34 & 35 T.24N. R.1E. W.M.



GENERAL NOTES:

1. EXISTING PAVEMENT MARKINGS AND SIGNS THAT CONFLICT WITH CHANNELIZATION AND SIGNING PLAN SHALL BE REMOVED.
2. CONTRACTOR SHALL COORDINATE WITH COPO OPERATIONS AND MAINTENANCE PRIOR TO STRIPING AND SIGNING.
3. ALL SIGNS REMOVED THAT WILL NOT BE RELOCATED SHALL BE SALVAGED TO COPO OPERATIONS AND MAINTENANCE.
4. DIMENSIONS ADJACENT TO CURB AND GUTTER ARE MEASURED FROM FACE OF CURB.
5. ALL PLASTIC PAVEMENT MARKINGS SHALL UTILIZE TYPE A- LIQUID HOT APPLIED THERMOPLASTIC PER WSDOT SPECIFICATIONS UNLESS OTHERWISE NOTED.
6. BICYCLE LANE SYMBOLS SHALL BE SPACED 500' MAXIMUM.

CHANNELIZATION NOTES:

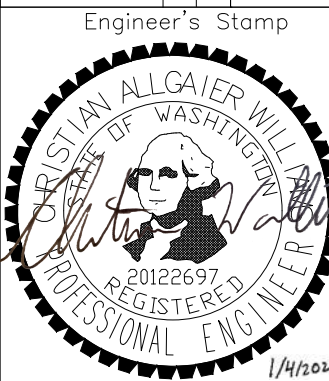
- ① NOT USED
- ② INSTALL PLASTIC CROSSWALK LINE PER COPO STD. PLAN 427
- ③ INSTALL PLASTIC 24" STOP LINE PER COPO STD. PLANS 427 AND 430
- ④ INSTALL PAINTED WHITE WIDE EDGE LINE PER WSDOT STD. PLAN M-20.10
- ⑤ INSTALL TORCH DOWN PLASTIC BICYCLE LANE SYMBOL PER WSDOT STD. PLAN M-9.50
- ⑥ INSTALL PAINTED WHITE EDGE LINE PER WSDOT STD. PLAN M-20.10
- ⑦ INSTALL 8" PAINTED WHITE CROSSHATCH MARKING PER WSDOT STD. PLAN M-24.60
- ⑧ INSTALL PLASTIC WHITE WIDE DOTTED EXTENSION LINE PER WSDOT STD. PLAN M-20.10
- ⑨ INSTALL PLASTIC WHITE DOTTED EXTENSION LINE PER WSDOT STD. PLAN M-20.10
- ⑩ INSTALL PLASTIC DOUBLE YELLOW CENTERLINE PER COPO STD. PLAN 424
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- ⑭ INSTALL PAINTED YELLOW EDGE LINE PER WSDOT STD. PLAN M-20.10
- ⑮ INSTALL 8" PAINTED YELLOW CROSSHATCH MARKING PER WSDOT STD. PLAN M-24.60

LEGEND:

- ⊗ NEW SIGN
- ⊗~~X~~ REMOVE EXISTING SIGN
- ⊗ X RELOCATE SIGN
- NEW SIGN
- EXISTING SIGN

DATE	REVISION	TYPE	REVISIONS

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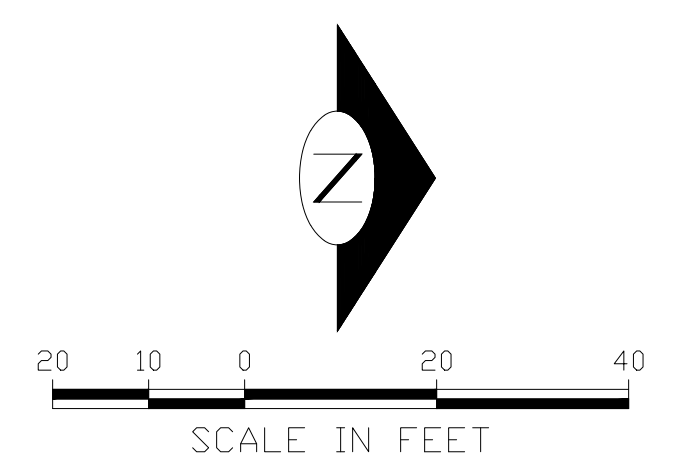


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DRAWN	CAW OCT 2023	REVISED AS-BUILT	
CHECKED	KCH OCT 2023		

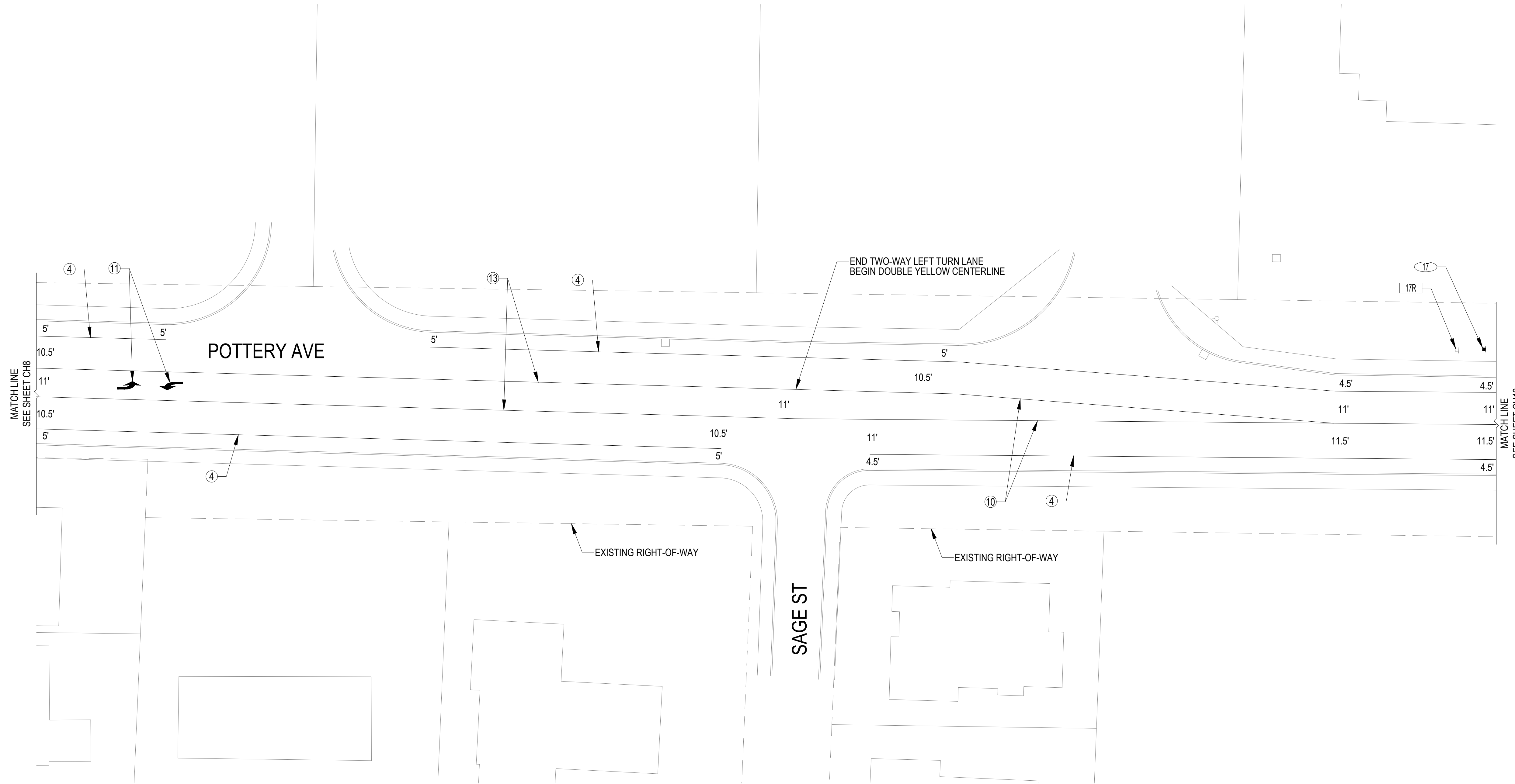


POTTERY AVE NON-MOTORIZED IMPROVEMENTS
 CHANNELIZATION AND SIGNING PLAN



PLAN NO.
CH8
 SHEET
 42 OF 45

SEC. 34 & 35 T.24N. R.1E. W.M.



- GENERAL NOTES:**
- EXISTING PAVEMENT MARKINGS AND SIGNS THAT CONFLICT WITH CHANNELIZATION AND SIGNING PLAN SHALL BE REMOVED.
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 - BICYCLE LANE SYMBOLS SHALL BE SPACED 500' MAXIMUM.

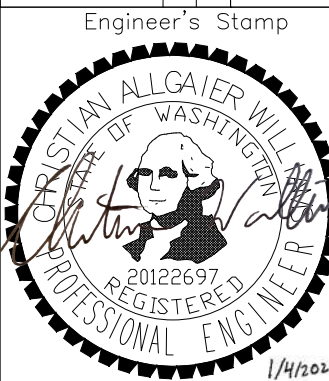
- CHANNELIZATION NOTES:**
- NOT USED
 - INSTALL PLASTIC CROSSWALK LINE PER COPO STD. PLAN 427
 - INSTALL PLASTIC 24" STOP LINE PER COPO STD. PLANS 427 AND 430
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 - INSTALL PAINTED YELLOW EDGE LINE PER WSDOT STD. PLAN M-20.10
 - INSTALL 8" PAINTED YELLOW CROSSHATCH MARKING PER WSDOT STD. PLAN M-24.60

- LEGEND:**
- NEW SIGN
 - REMOVE EXISTING SIGN
 - RELOCATE SIGN
 - NEW SIGN
 - EXISTING SIGN

SIGN SCHEDULE							
SIGN NO.	SIGN TYPE	SIZE	X (IN.)	Y (IN.)	POST TYPE	POST HEIGHT	REMARKS
17	R2-1	24	30		SEE COPO STD. PLAN 500	12 FT	SPEED LIMIT - 25 MPH INSTALL NEW SIGN AND POST
17R	R2-1						SPEED LIMIT - 30 MPH REMOVE EXISTING SIGN AND POST

DATE	REVISION	TYPE	REVISIONS

DISCLAIMER: THIS PLAN WAS DEVELOPED FROM CITY OF PORT ORCHARD AND KITSAP COUNTY GIS INFORMATION ALONG WITH AERIAL IMAGERY AND MAY NOT REPRESENT TRUE CONDITIONS IN THE FIELD.

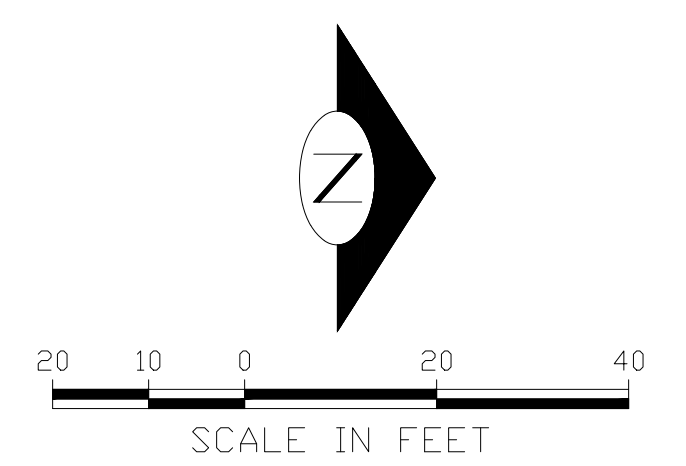


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CHECKED	KCH OCT 2023	REVISED AS-BUILT	

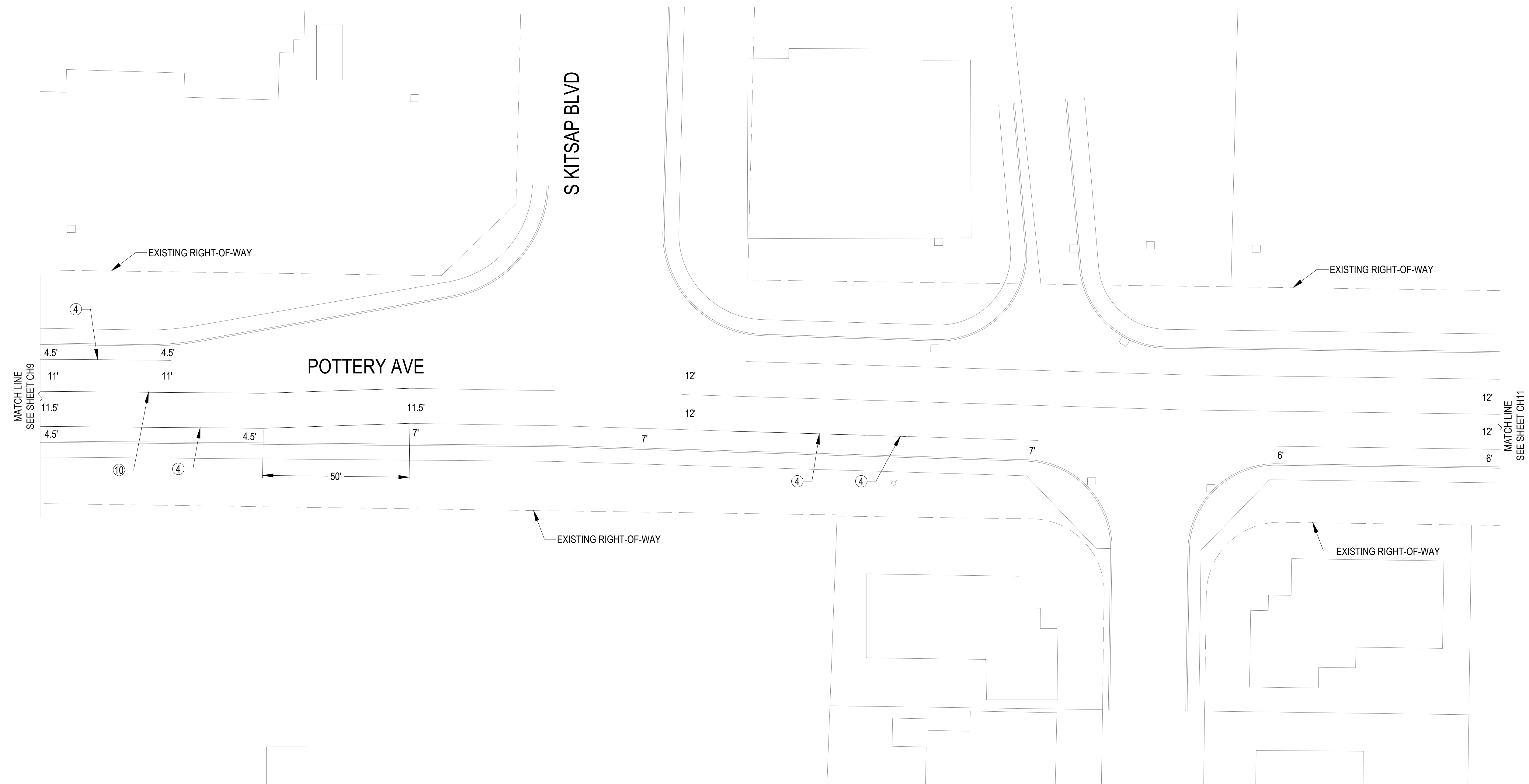


POTTERY AVE NON-MOTORIZED IMPROVEMENTS
CHANNELIZATION AND SIGNING PLAN



PLAN NO.
CH9
SHEET
43 OF 45

SEC. 34 & 35 T.24N. R.1E. W.M.



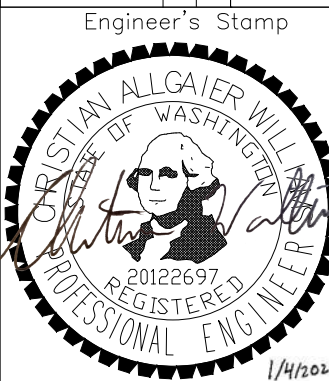
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- CHANNELIZATION NOTES:**
- NOT USED
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 - INSTALL PLASTIC 24" STOP LINE PER COPO STD. PLANS 427 AND 430
 - INSTALL PAINTED WHITE WIDE EDGE LINE PER WSDOT STD. PLAN M-20.10
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 - INSTALL 8" PAINTED YELLOW CROSSHATCH MARKING PER WSDOT STD. PLAN M-24.60

- LEGEND:**
- NEW SIGN
 - REMOVE EXISTING SIGN
 - RELOCATE SIGN
 - NEW SIGN
 - EXISTING SIGN

DATE	REVISION	TYPE	REVISIONS

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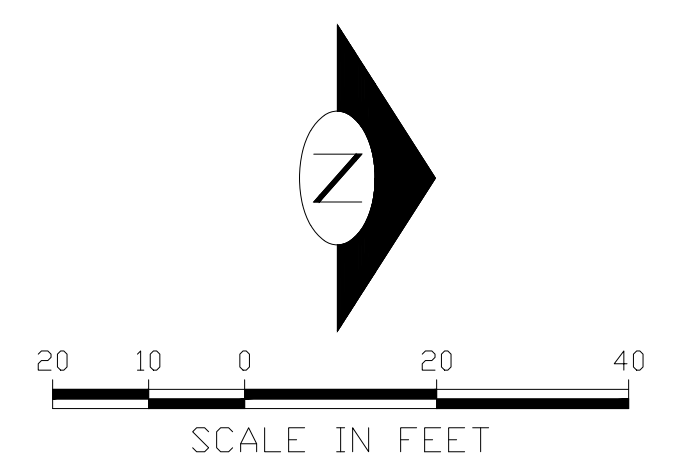


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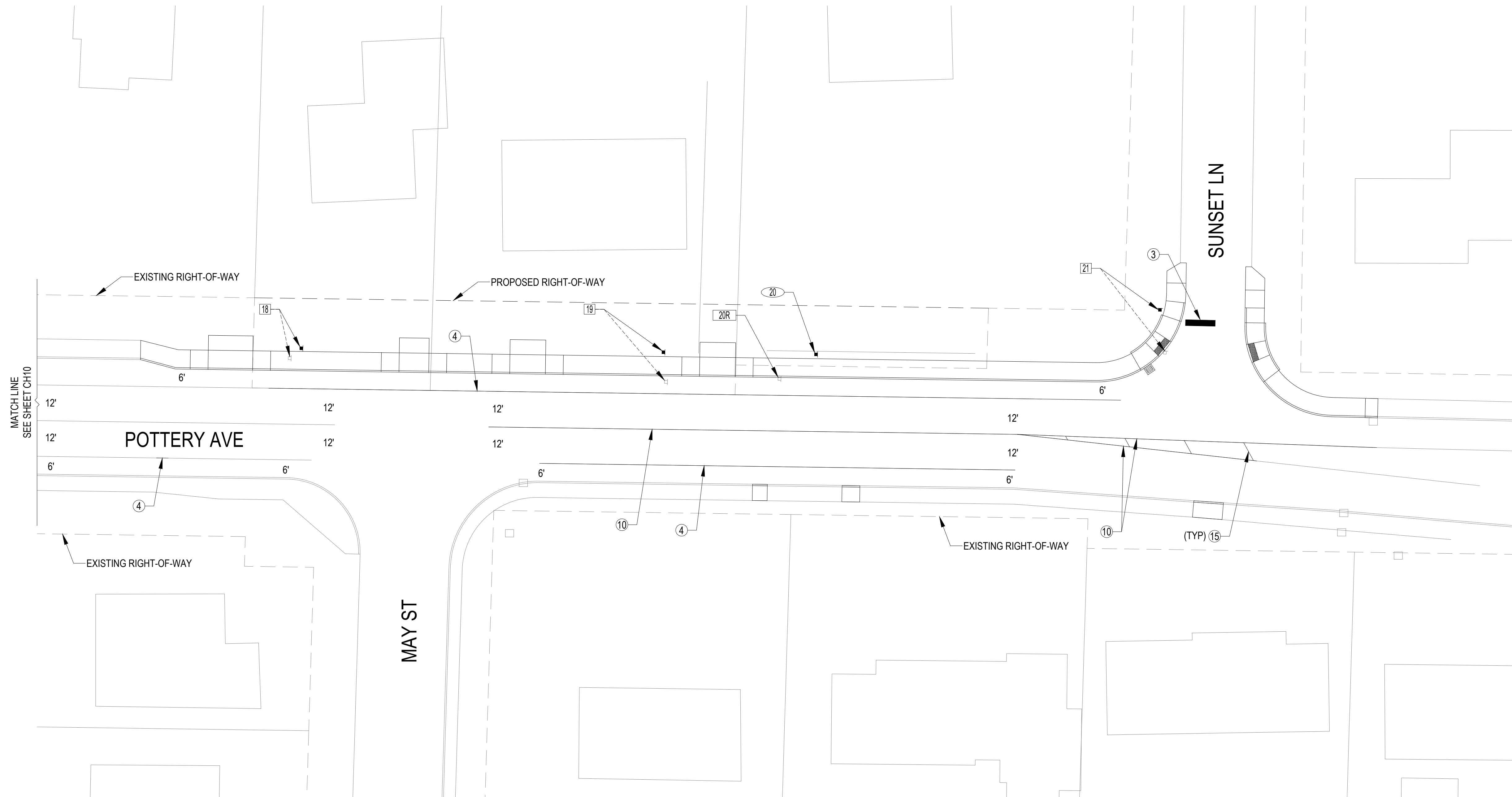
POTTERY AVE NON-MOTORIZED IMPROVEMENTS
 CHANNELIZATION AND SIGNING PLAN



PLAN NO.
CH10
 SHEET
 44 OF 45

All work done in accordance with the City of Port Orchard Public Works Engineering Standards and Specifications in effect on the date shown above, and supplemented by Project Provisions.
 Page 224 of 316

SEC. 34 & 35 T.24N. R.1E. W.M.



- GENERAL NOTES:**
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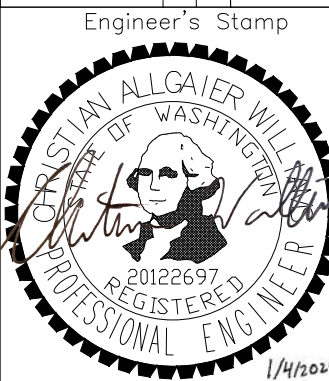
- CHANNELIZATION NOTES:**
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- LEGEND:**
- NEW SIGN
 - REMOVE EXISTING SIGN
 - RELOCATE SIGN
 - NEW SIGN
 - EXISTING SIGN

SIGN SCHEDULE							
SIGN NO.	SIGN TYPE	SIZE X (IN.) Y (IN.)	POST TYPE	POST HEIGHT	DESCRIPTION	REMARKS	
18	D3-1	EX EX	SEE COPO STD. PLAN 500	12 FT	STREET NAME	RELOCATE EXISTING SIGN TO NEW POST	
19	SPECIAL	EX EX	EXISTING STEEL	EX	BUS STOP	RELOCATE EXISTING SIGN AND POST	
20R	R2-1	EX EX			SPEED LIMIT - 30 MPH	REMOVE EXISTING SIGN TO NEW POST	
20	R2-1	24 30	SEE COPO STD. PLAN 500	12 FT	SPEED LIMIT - 25 MPH	INSTALL NEW SIGN AND POST	
	D11-1	EX EX			BIKE ROUTE	INSTALL SIGN BELOW SPEED LIMIT SIGN	
21	R1-1	EX EX	EXISTING STEEL	EX	STOP	RELOCATE EXISTING SIGNS (4) AND POST	

DATE	REVISION TYPE	REVISIONS
	DESIGN'D	CHECK'D
	REVIEW'D	

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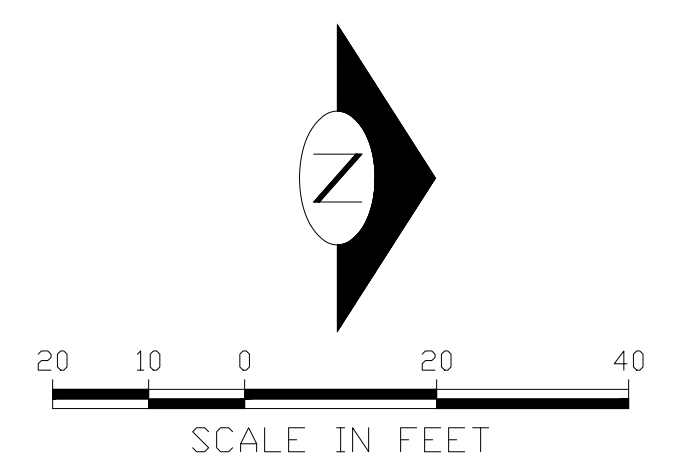


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POTTERY AVE NON-MOTORIZED IMPROVEMENTS
 CHANNELIZATION AND SIGNING PLAN



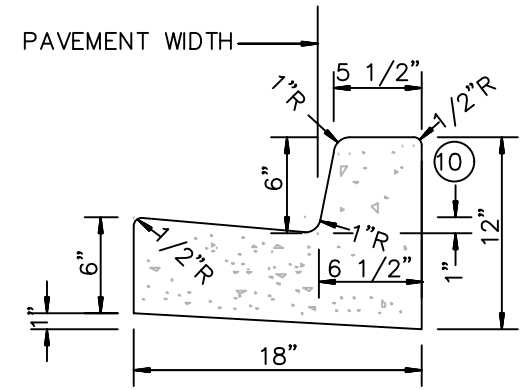
PLAN NO.
CH11
SHEET
45 OF 45

APPENDIX B

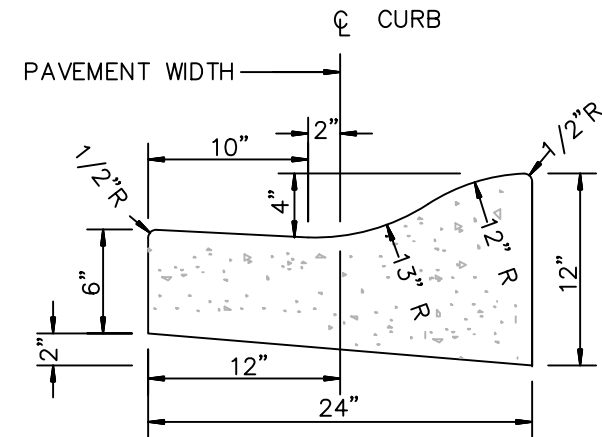
POTTERY AVE NON-MOTORIZED IMPROVEMENTS STANDARD PLANS

NOTES:

1. CONSTRUCTION OF CURB DETAILS SHALL BE IN ACCORDANCE WITH THE CURRENTLY ADOPTED STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION AS PUBLISHED BY THE WASHINGTON STATE DEPARTMENT OF TRANSPORTATION AND THE AMERICAN PUBLIC WORKS ASSOCIATION. (WSDOT/APWA SPECIFICATIONS) UNLESS OTHERWISE MODIFIED BELOW.
2. ALL CONCRETE SHALL BE COMMERCIAL CLASS PER WSDOT/APWA SPECIFICATIONS.
3. FORMS SHALL BE TRUE TO LINE AND GRADE AND SECURELY STAKED. STEEL FORMS ONLY SHALL BE USED ON TANGENT SECTIONS. WOOD FORMS MAY BE USED ON CURVED SECTIONS.
4. FULL DEPTH EXPANSION JOINTS CONSISTING OF 3/8 INCH MINIMUM PREMOLDED JOINT MATERIAL SHALL BE PLACED ADJACENT TO CATCH BASINS, INLETS AND AT POINTS OF TANGENCY ON STREETS AND DRIVEWAY RETURNS. MAXIMUM SPACING SHALL BE 20 FEET.
5. CONTRACTION JOINTS (DUMMY JOINTS) CONSISTING OF 3/8" MIN. X 2" OF PREMOLDED JOINT MATERIAL SHALL BE CONSTRUCTED AT INTERVALS OF 10 FEET.
6. ALL JOINTS SHALL BE CLEAN AND EDGED.
7. FINISH SHALL BE A LIGHT BROOM FINISH.
8. FINISHED CURBS AND GUTTERS SHALL BE SPRAYED WITH A CLEAR CURING COMPOUND.
9. SUBGRADE COMPACTION FOR CURBS AND GUTTERS SHALL MEET A MINIMUM 95% OF MAXIMUM DENSITY IN ACCORDANCE WITH SEC. 2-03.3(14) OF THE WSDOT/APWA SPECIFICATIONS.



CEMENT CONCRETE VERTICAL CURB AND GUTTER

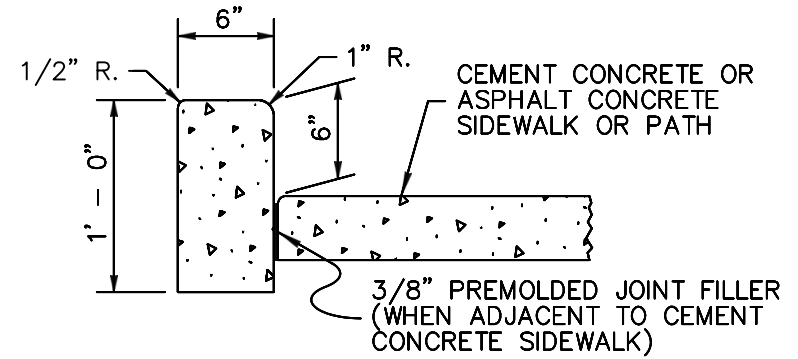


CEMENT CONCRETE ROLLED CURB AND GUTTER

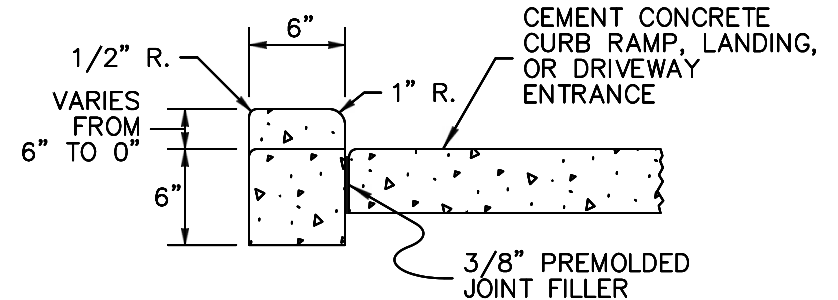
DRAWN BY	IDS
DATE	1/29/2019
SCALE	NTS
DRAWING NUMBER	300

NOTES:

1. CONSTRUCTION OF CURB DETAILS SHALL BE IN ACCORDANCE WITH THE CURRENTLY ADOPTED STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION AS PUBLISHED BY THE WASHINGTON STATE DEPARTMENT OF TRANSPORTATION AND THE AMERICAN PUBLIC WORKS ASSOCIATION. (WSDOT/APWA SPECIFICATIONS) UNLESS OTHERWISE MODIFIED BELOW.
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CEMENT CONCRETE PEDESTRIAN CURB



CEMENT CONCRETE PEDESTRIAN CURB

AT CURB RAMPS, LANDINGS, AND DRIVEWAY ENTRANCES

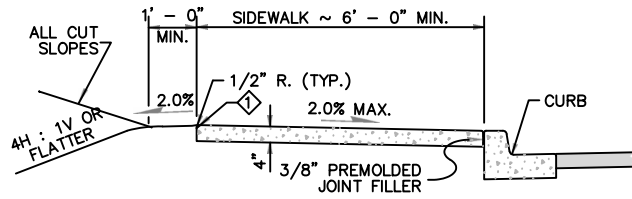


CURB AND GUTTER B

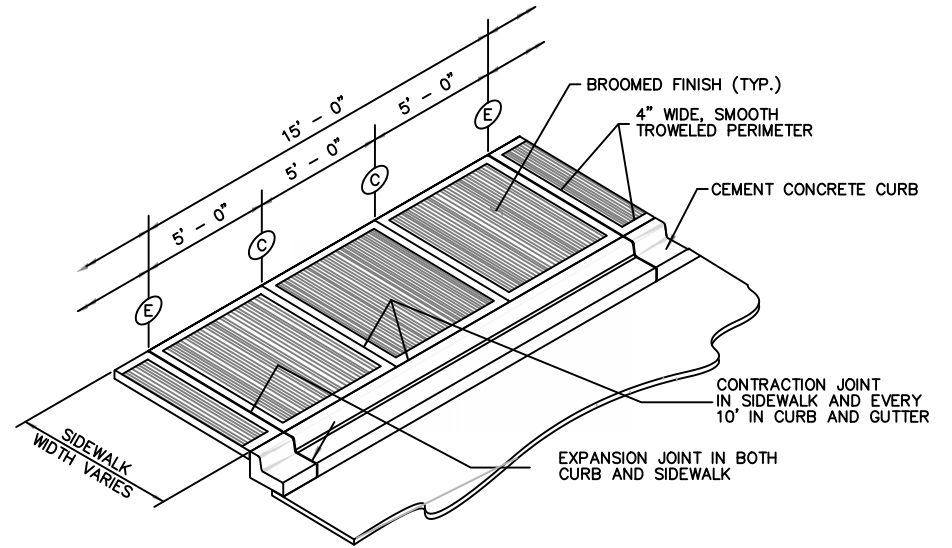
CEMENT CONCRETE PEDESTRIAN CURB

DRAWN BY	IDS
DATE	1/29/2019
SCALE	NTS
DRAWING NUMBER	301

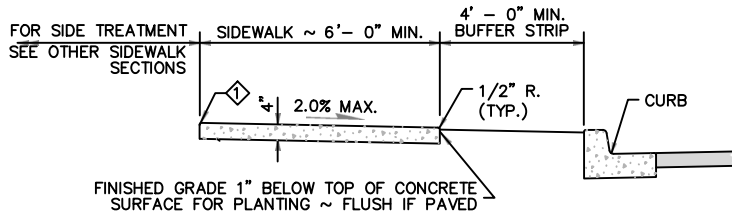
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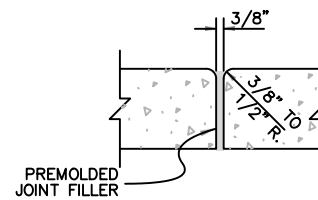
ADJACENT TO CURB



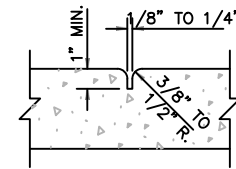
CEMENT CONCRETE SIDEWALK



ADJACENT TO BUFFER STRIP



(E) EXPANSION JOINT



(C) CONTRACTION JOINT



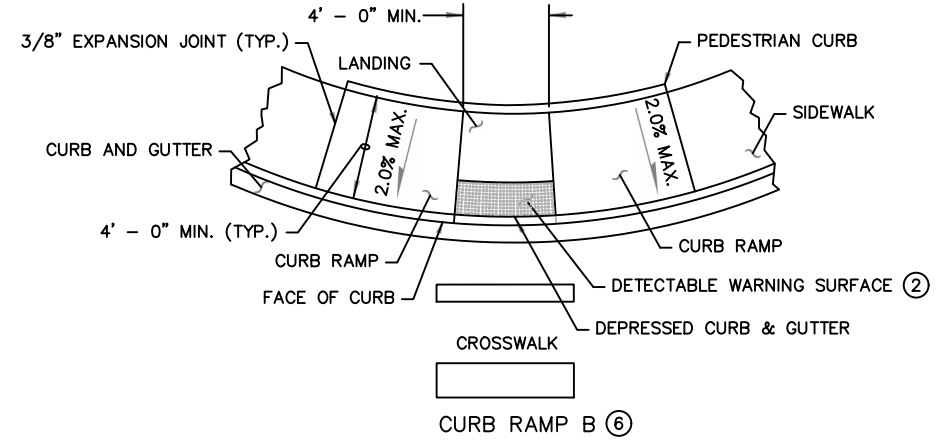
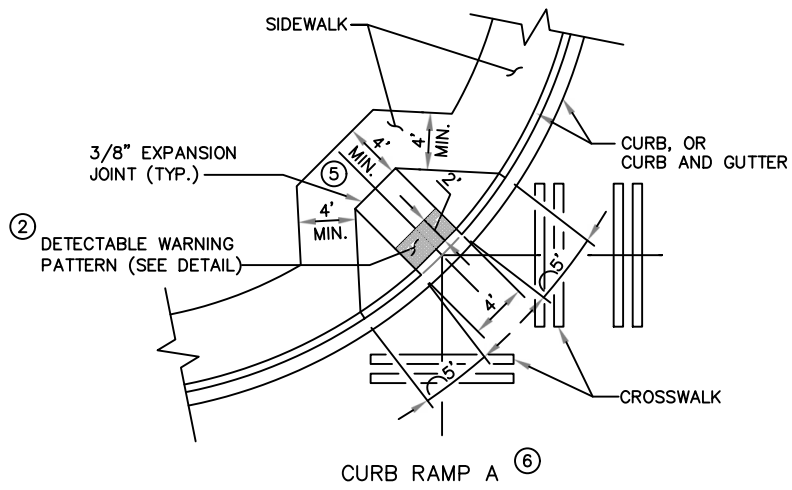
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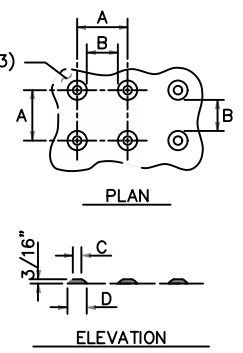
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DETECTABLE WARNING PATTERN AREA SHALL BE YELLOW, IN COMPLIANCE WITH STD. SPEC. 8-14.3(3)

	MIN.	MAX.
A	1 5/8"	2 3/8"
B	5/8"	1 1/2"
C	7/16"	3/4"
D	7/8"	1 7/16"



DETECTABLE WARNING PATTERN DETAIL

NOTES

1. PLACEMENT OF GRATINGS, ACCESS COVERS AND OTHER APPURTENANCES SHALL NOT BE LOCATED ON CURB RAMPS, LANDINGS AND GUTTERS WITHIN THE PEDESTRIAN ACCESS ROUTE.
2. RAMPS SHALL BE TEXTURED USING TRUNCATED DOME PATTERN (SEE DETAIL THIS PAGE). DETECTABLE WARNING PATTERN SHALL BE YELLOW IN COMPLIANCE WITH WSDOT STANDARD SPECIFICATION 8-14.3(3)
3. RAMP CENTER LINE SHALL BE PERPENDICULAR TO OR RADIAL TO CURB RETURNS UNLESS OTHERWISE APPROVED BY THE CITY ENGINEER.
4. RAMPS SHALL BE CONSTRUCTED AT CORRESPONDING SIDEWALK LOCATIONS ON OPPOSITE SIDE OF STREETS WHEN RAMPS ARE CONSTRUCTED ON ONE SIDE OF STREET.
5. LANDING SHALL BE MINIMUM 4 X 4'.
6. CURB RAMP A MUST BE INSTALLED UNLESS OTHERWISE APPROVED.

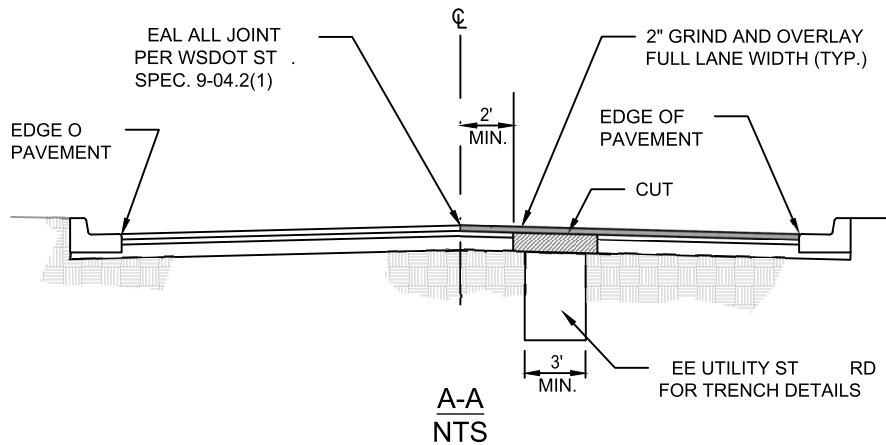
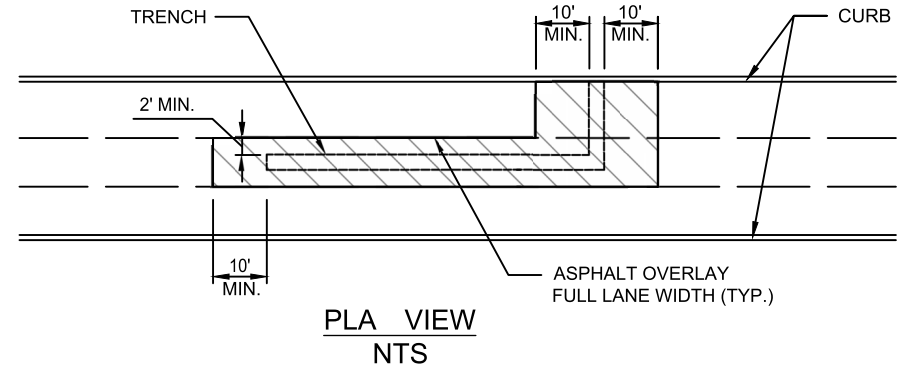
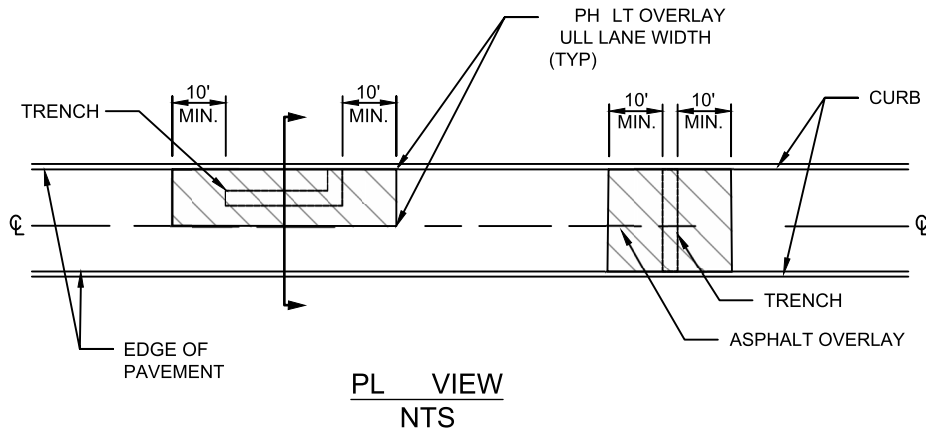


SIDEWALKS B

ADA CURB RAMP
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NOTES:

1. THIS STANDARD APPLIES TO ALL CUT IN ASPHALT ROADWAY.
2. GRIND/OVERLAY WITHIN SIGNAL LOOP DETECTION ZONE MAY BE EXTENDED TO INCLUDE ADDITIONAL LANES AND/OR DETECTORS
3. OVERLAY AREA MAY BE EXTENDED AT THE DISCRETION OF THE TRANSPORTATION ENGINEER TO ENCOMPASS ADJACENT STREET CUTS OR PREVIOUS RESTORATIONS.
4. ADJUST ALL UTILITY CASTINGS TO FINISHED GRADE AFTER OVERLAY AND RESTORE CHANNELIZATION AND LOOP DETECTION

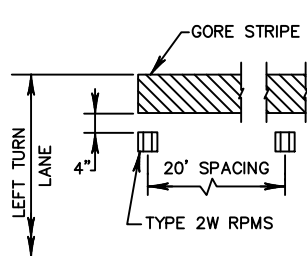


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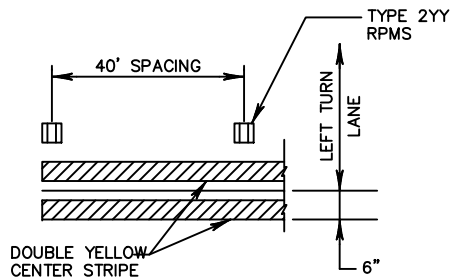
TYPICAL STREET RESTORATION

ASPHALT OVERLAY OR ROADWAY TRENCH RESTORATION

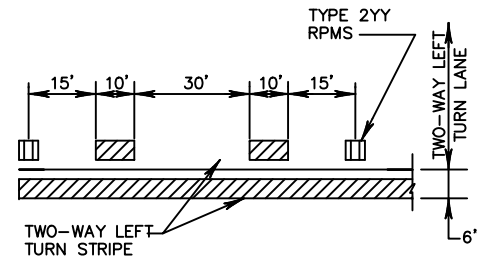
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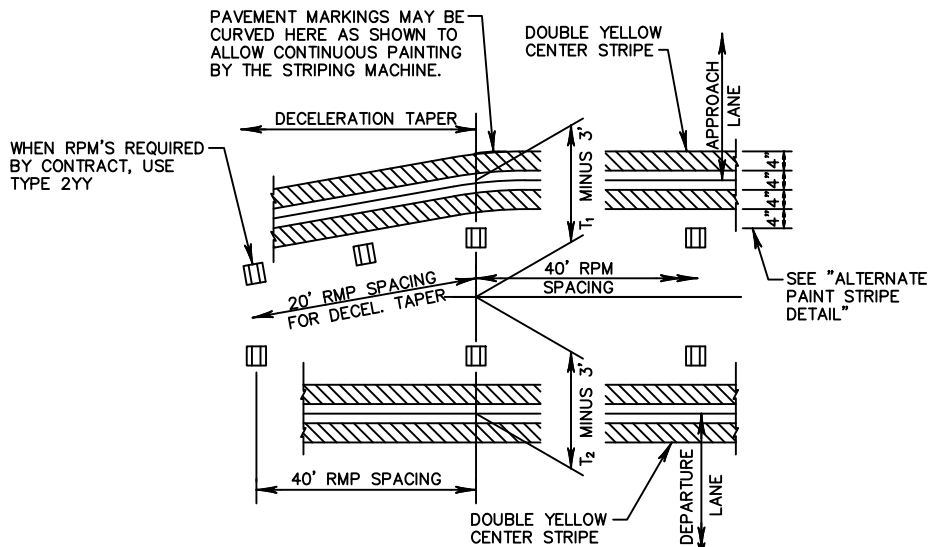
DETAIL A



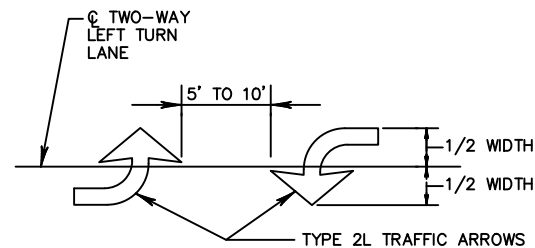
DETAIL B



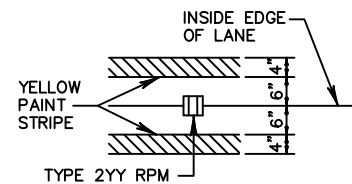
DETAIL C



DETAIL D



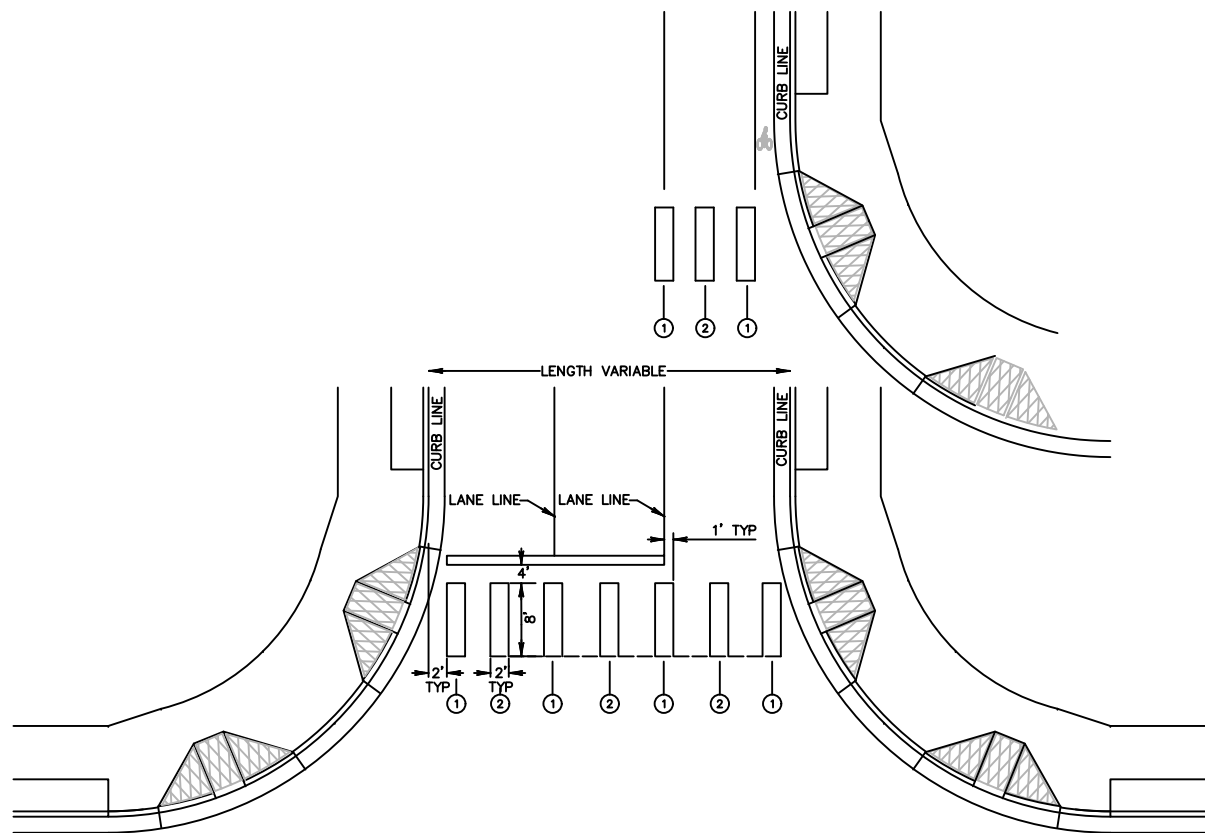
DETAIL E



ALTERNATE PAINT STRIPE DETAIL

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- ① LANE LINE STRIP: THIS IS LOCATED IN THE LINE WITH EACH LANE LINE AND HALF THE STRIP ON EACH SIDE.
- ② MID LINE STRIP: THIS IS LOCATED MID WAY BETWEEN EACH LANE LINE STRIP

NOTES

DURA STRIPE MATERIALS SHALL BE USED UNLESS OTHERWISE DIRECTED BY THE CITY ENGINEER.

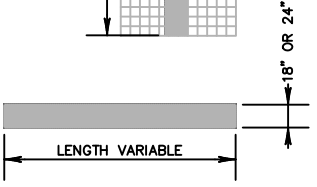
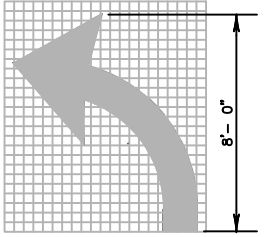
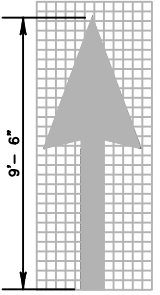
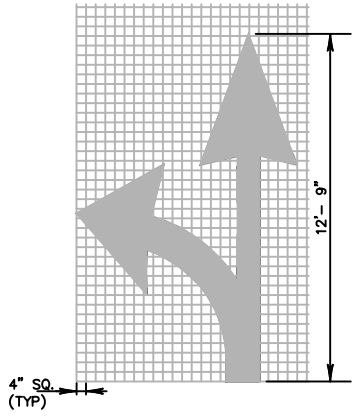
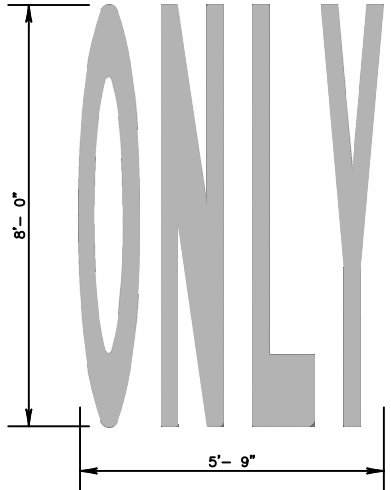
ALL NEW MID BLOCK CROSSWALKS SHALL BE LAYED OUT AS ABOVE AND PROVIDE SUPPLEMENTAL SIGNING CONSISTENT WITH N.U.T.C.D. AND AS DIRECTED BY THE CITY ENGINEER.

ARKINGS H

TY ICA CROSSWALK STRIPING

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STOP BAR DETAIL

THERMOPLASTIC MATERIAL SHALL BE USED, UNLESS OTHERWISE ALLOWED BY THE CITY ENGINEER.

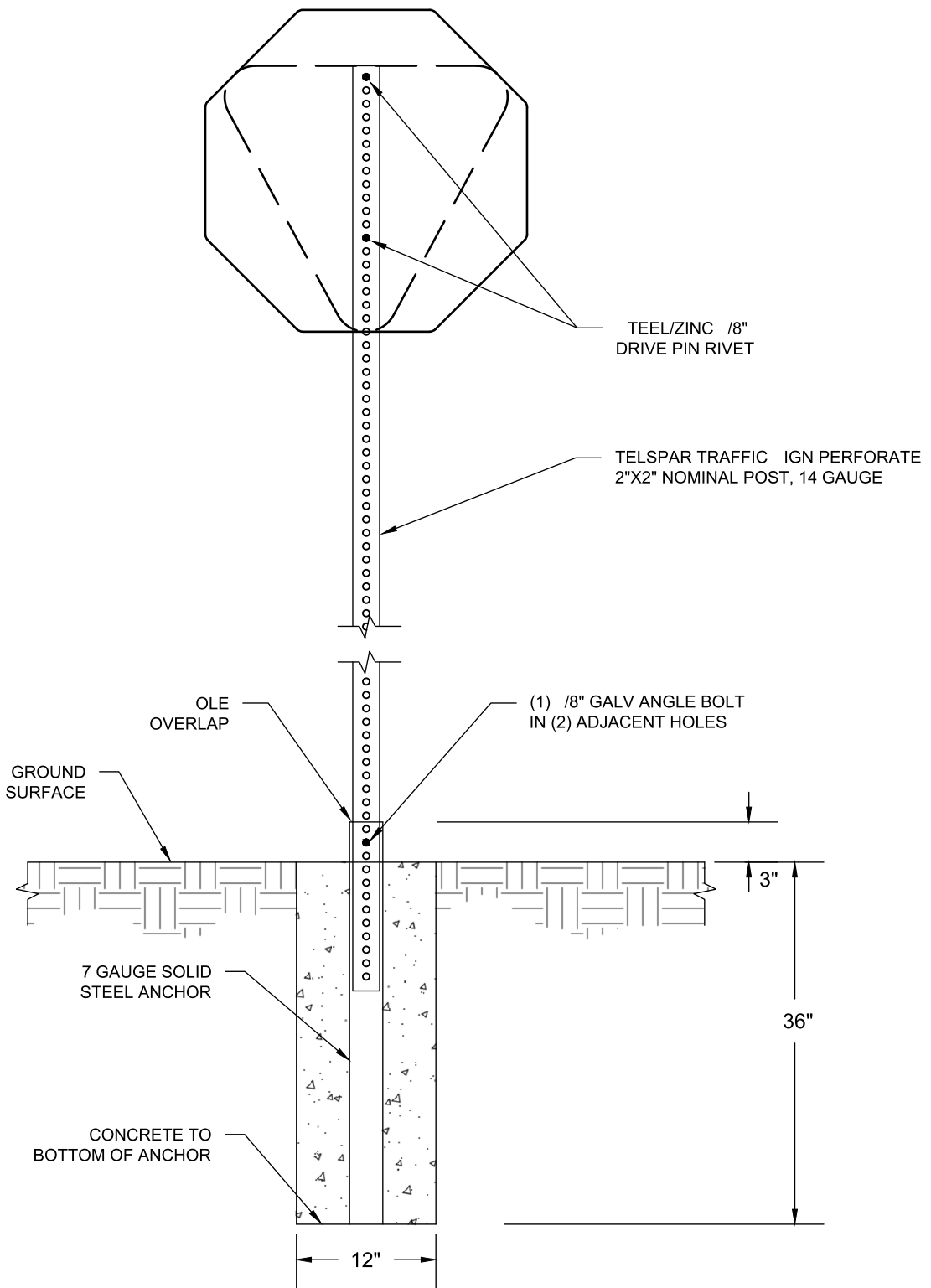


MARKINGS K

TYPICAL ARROWS, STOP BAR, AND ONLY

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NOTE:

INSTALL A NYLON WASHER WHEN SIGN FACE HAS TYPE III, IV, OR IX SHEETING



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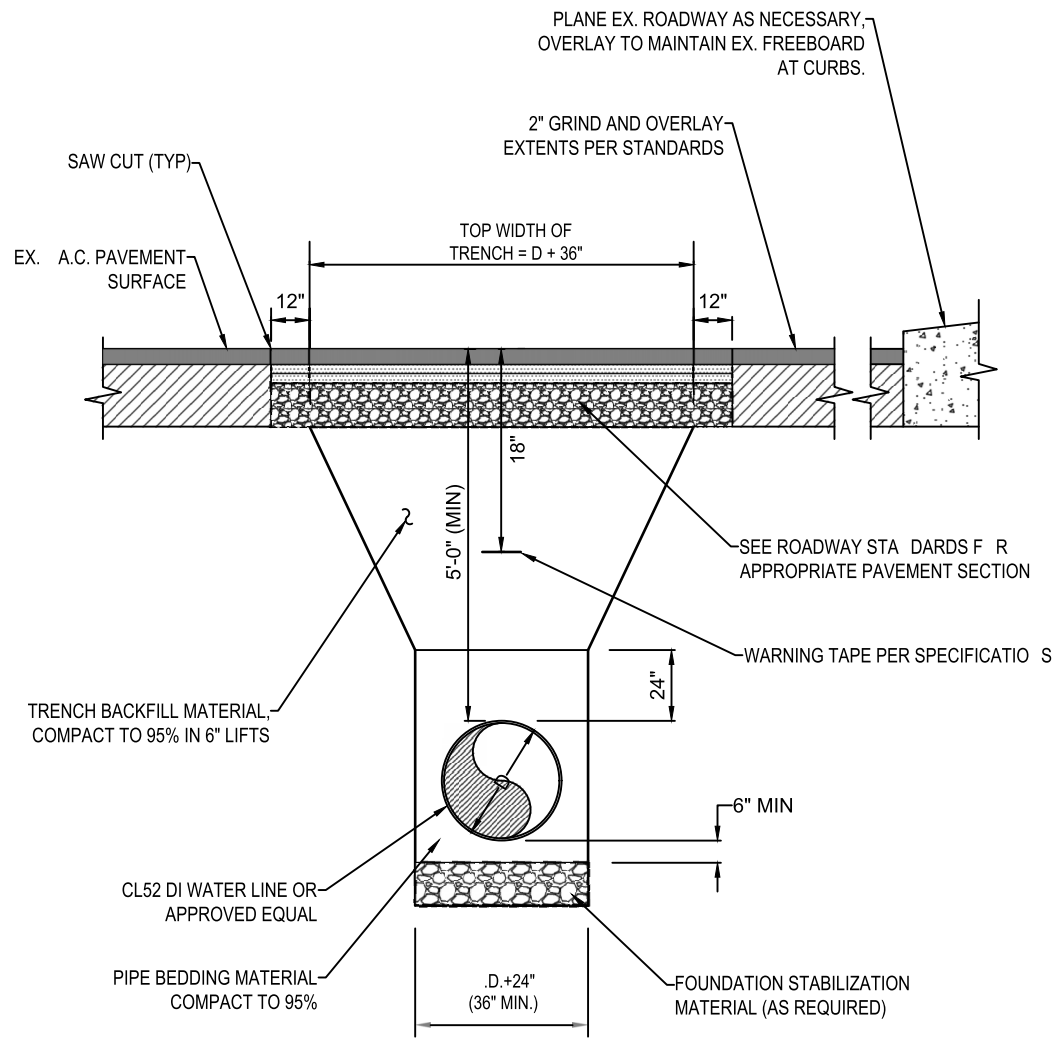
TREET SIGN

TREET SIGN POST ETAIL

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- NOTES:**
- 1) BED THE ENTIRE WIDTH OF THE TRENCH PAVEMENT
 - 2) RESTORATION SHALL BE PER THE APPROPRIATE SECTION CHAPTER (PAVEMENT SURFACING).
 - 3) INSTALL TRACER WIRE PER SPECIFICATIONS



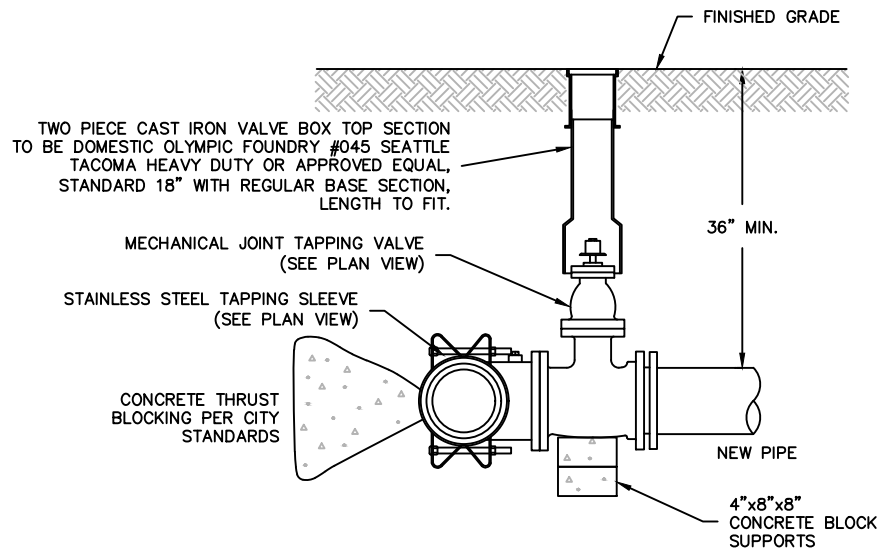
RESTORATION, TAPS, AND BLOCKING B

WATER MAIN TRENCH

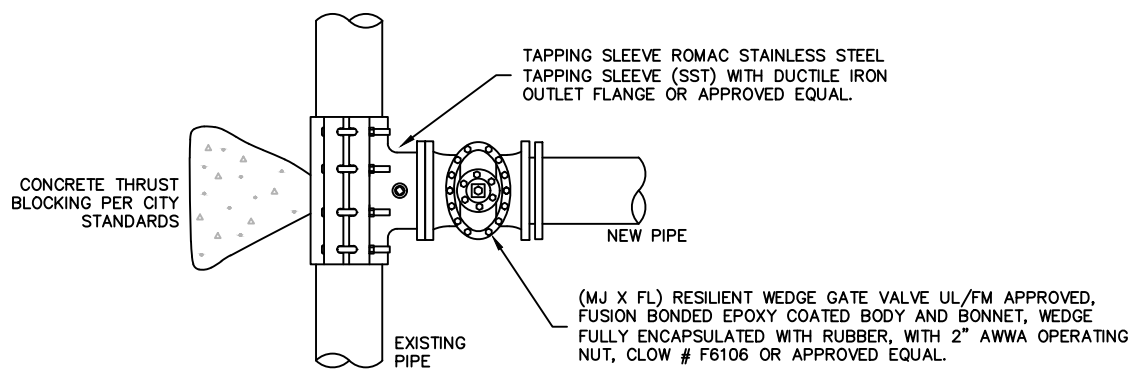
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ELEVATION



PLAN

NOTES:

1. PRIOR TO BORING:
 - A. TAPPING SLEEVE AND VALVE SHALL BE PRESSURE TESTED AT 200 PSI FOR A PERIOD OF 15 MINUTES. PRESSURE LOSS DURING TESTING SHALL NOT EXCEED 5 PSI.
 - B. TAPPING SLEEVE AND VALVE SHALL BE STERILIZED PER SPECIFICATIONS
2. PRIOR TO FINAL CONNECTION OF TAPPING VALVE TO NEW PIPING, THE NEW PIPING SHALL BE PRESSURE TESTED AND STERILIZED PER SPECIFICATIONS

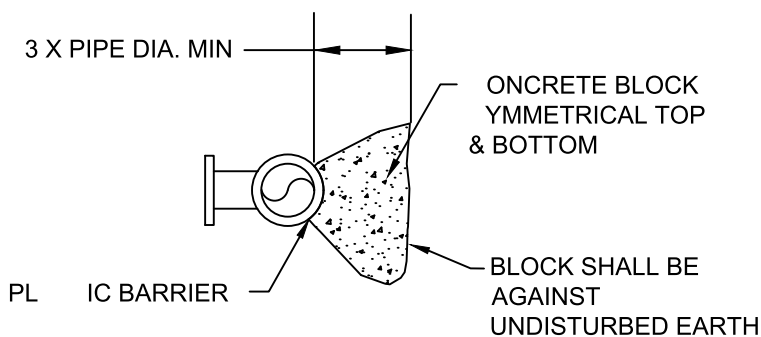
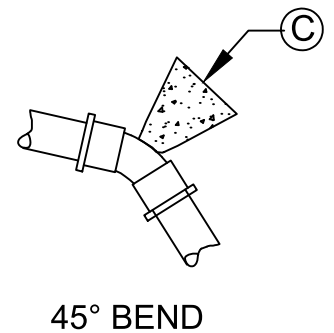
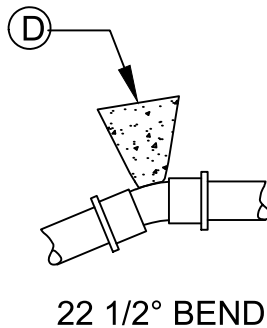
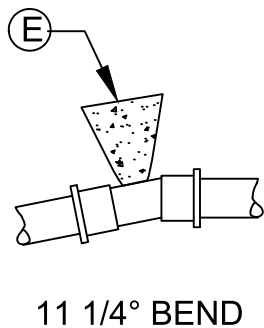
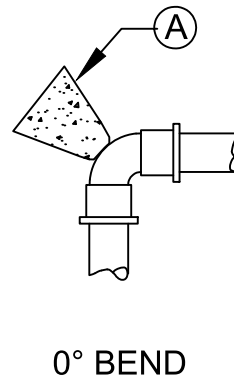
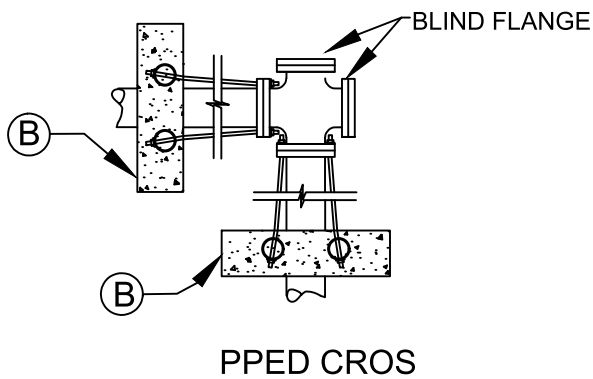
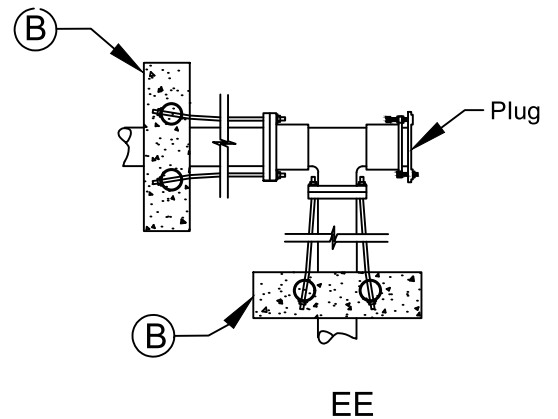
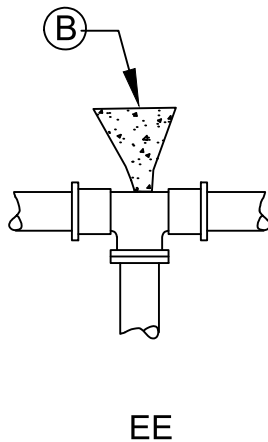
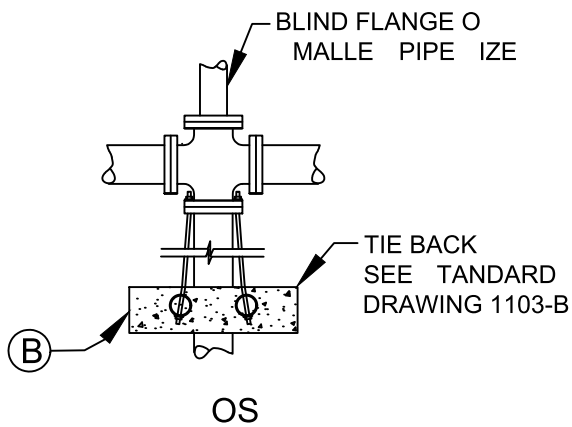


RESTORATION, TAPS, AND BLOCKING C

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TYPICAL CROSS-SECTION

TABLE A - H UST BLOCK

PIPE SIZE	○ SQ. FT.	Ⓑ SQ. FT.	Ⓒ SQ. FT.	Ⓓ SQ. F .	Ⓔ SQ. FT.
4"	3	2	2	1	1
6"	6	5	4	2	1
8"	11	8	6	3	2
12"	22	16	12	6	3
16"	38	27	21	10	6
18"	48	34	26	14	7
24"	84	59	45	23	13

MIN. BE RING RE AG INS UNDI TU BED SOIL

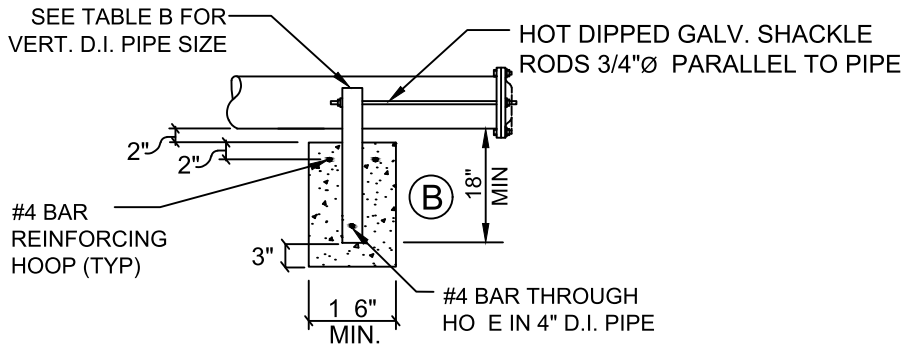
SEE DRAWING 1103-B FOR ADDITION L NOTES



RESTOR TION, TAPS, AND BLOCKING

THRUST BLOCKING ND TIE BACK

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TABLE B - TIE BACK

A ER MAIN PIPE	AMOUNT OF 3/4\" GALV. SHACKLE ROD S	SIZE OF VERT. PIPE IN CONC.	AMOUN OF #4 REINFORCING BAR HOOPS
4"	2	4"	1
6"	2	4"	1
8"	2	4"	1
12"	4	4"	2
16"	6	6"	3
18"	6	6"	3
24"	6	6"	3

NO ES:

1. BEARING AREA OF CONCRETE THRUST B OCK IS BASE ON 225 PSI PRESSURE AND SAFE SOIL BEARING LOAD OF 2000 PSF.
2. THE SAFE SOIL BEARING LOAD SHALL BE ADJUSTED TO MEASURED SOIL BEARING LOADS IN THE FIELD.
3. AREAS MUST BE ADJUSTED FOR OTHER PIPE SIZES, PRESSURES AN SOIL CONDITIONS.
4. CONCRETE BLOCKING SHALL BE CAST IN PLACE AND HAVE A MINIMUM OF 1/4 SQUARE FOOT BEARING AGAINST THE FITTING.
5. THE BLOCK SHALL BEAR AGAINST HE FITTINGS ONLY AND SHAL BE CLEAR OF JOINTS TO PERMIT TAKING UP AND DISMANTLING OF JOINT
6. THE CONTRACTOR SHALL INSTALL BL CKING ADEQUATE TO WITHSTAND FULL TEST PRESSURE AS WELL AS TO CONTINUOUSLY WITHSTAN OPERATING PRESSURE UNDER A L CONDITIONS OF SERVICE.
7. USE 2" THICK STYROFOAM TO FORM THE CONCRETE B OCKING. PLASTIC SHALL BE INSTALLED BETWEEN ALL CONCRETE BLOCKING AND FI TINGS.



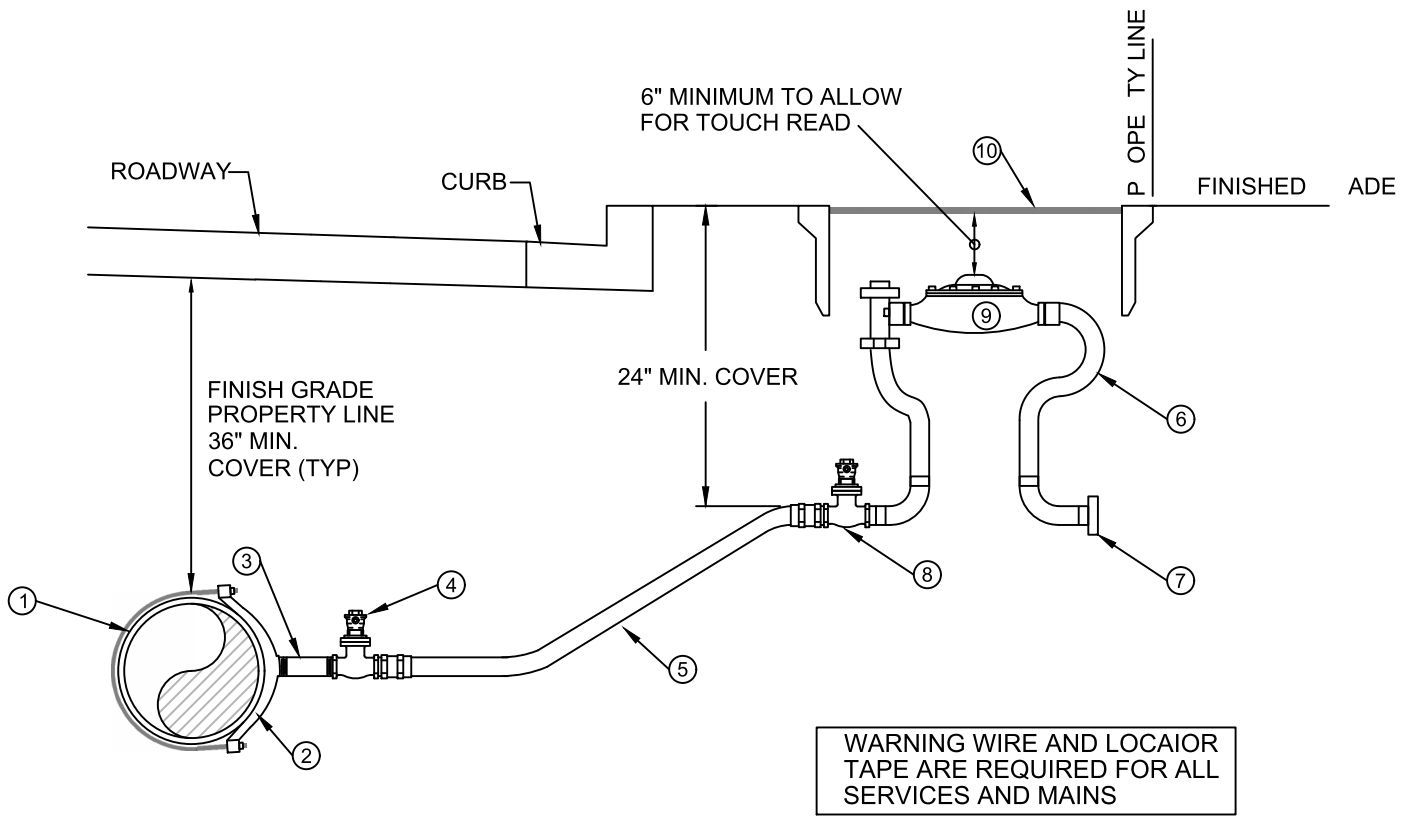
RESTORATION, TAPS, AND BLOCKING

THRUST BLOCKING AND TIE BACKS

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WARNING WIRE AND LOCALOR TAPE ARE REQUIRED FOR ALL SERVICES AND MAINS

NOTES:

- 1. EXISTING WATER MAIN
- 2. 1" (IP THREAD) SINGLE ST AP SADDLE OMAC STYLE 101S O APPROVED EQUAL
- 3. 1" BRASS NIPPLE, 3" LONG
- 4. CORP. STOP, FORD FB1100 OR APPROVED EQUAL
- 5. 1" POLYETHYLENE PIPE, MAINTAIN 36" COVER FROM WATER MAIN TO WITHIN 48" OF METER BOX
- 6. 1" METER SETTER MUELLER 1434 OR APPROVED EQUAL HORIZONTAL IN, HORIZONTAL OUT. M.I.P. THREAD ENDS.
- 7. SCHEDULE 40 1" PVC THREADED PLUG. REMOVED WHEN CONNECTION MADE TO CUSTOMER LINE
- 8. BRASS CURB STOP, FORD B41-444-NL OR EQUAL.
- 9. WATER METER - TO BE SUPPLIED BY THE CITY
- 10. METER BOX SHALL BE SIGMA RAVEN HDPE METER BOX MODEL 1324-SW. PROVIDE HDPE LID WITH TOUCH READ AND METER READER LID. PLACE BACK OF METER BOX FLUSH WITH PROPERTY LINE.



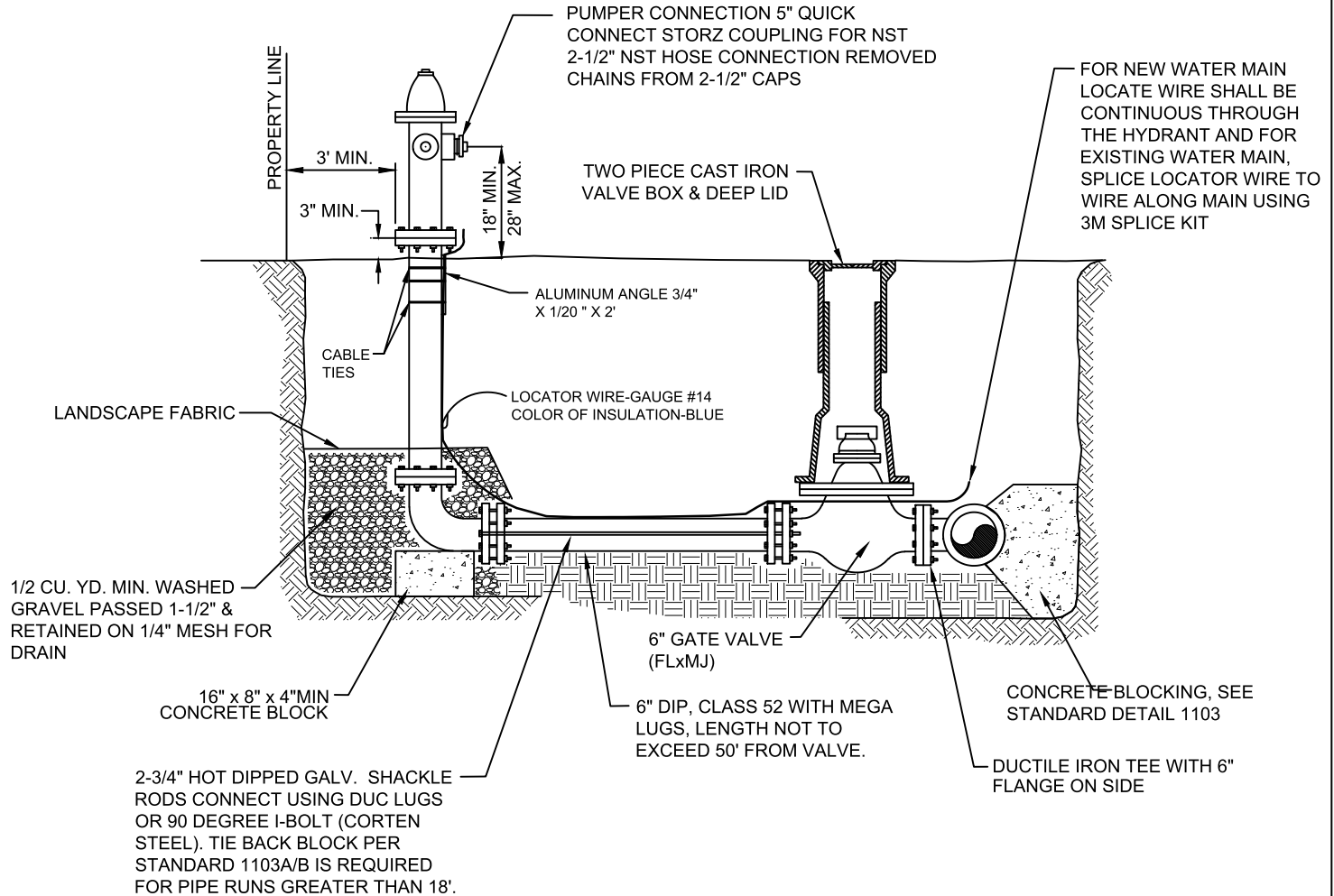
SERVICES A

5/8, 3/4, OR 1-INCH WATER SERVICE

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NOTES:

1. MAIN VALVE OPENING SHALL BE 5-1/4" IN DIAMETER EQUAL TO M&H 929. 6" MECHANICAL JOINT INLET. 1-1/2" PENTAGON OPERATING NUT. THE CITY WILL PAINT THE HYDRANT.
2. LOCATOR WIRE TO BE PROTECTED WITH ANGLE ALUMINUM (3/4" X 1/20" X 2' LONG) STRAP TO THE HYDRANT BURY WITH CABLE TIES (36" LENGTH, 175 LB TENSILE, COLOR BLACK, MANUFACTURED BY 3M). LOCATION SHALL BE BELOW THE LOWER FLANGE OF THE HYDRANT BELOW THE PUMPER PORT. LOCATE WIRE SHALL HAVE 6" SLACK FOR CONNECTING TO LOCATING DEVICE.
3. IF THE PIPE BETWEEN THE VALVE AND THE HYDRANT IS MORE ONE FULL STICK OF DUCTILE IRON PIPE, THEN A TIE BACK THRUST SHALL BE INSTALLED AND FIELD-LOK GASKETS AND MEGA LUGS SHALL BE USED.



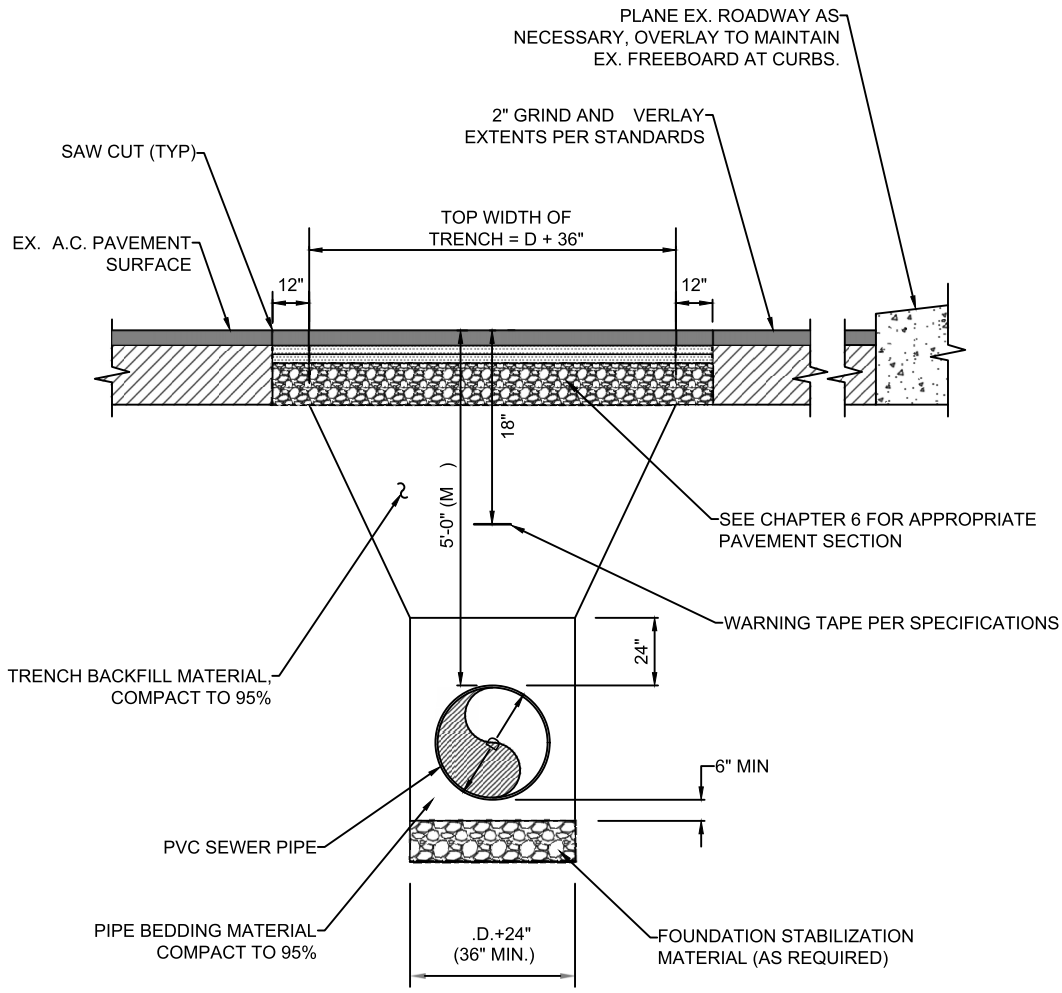
SYSTEM APPURTENANCES B

FIRE HYDRANT ASSEMBLY

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- TES:**
- 1) BED THE ENTIRE WIDTH OF THE TRENCH PAVEMENT
 - 2) RESTORATION SHALL BE PER THE APPROPRIATE SECTION CHAPTER 6 (PAVEMENT SURFACING).



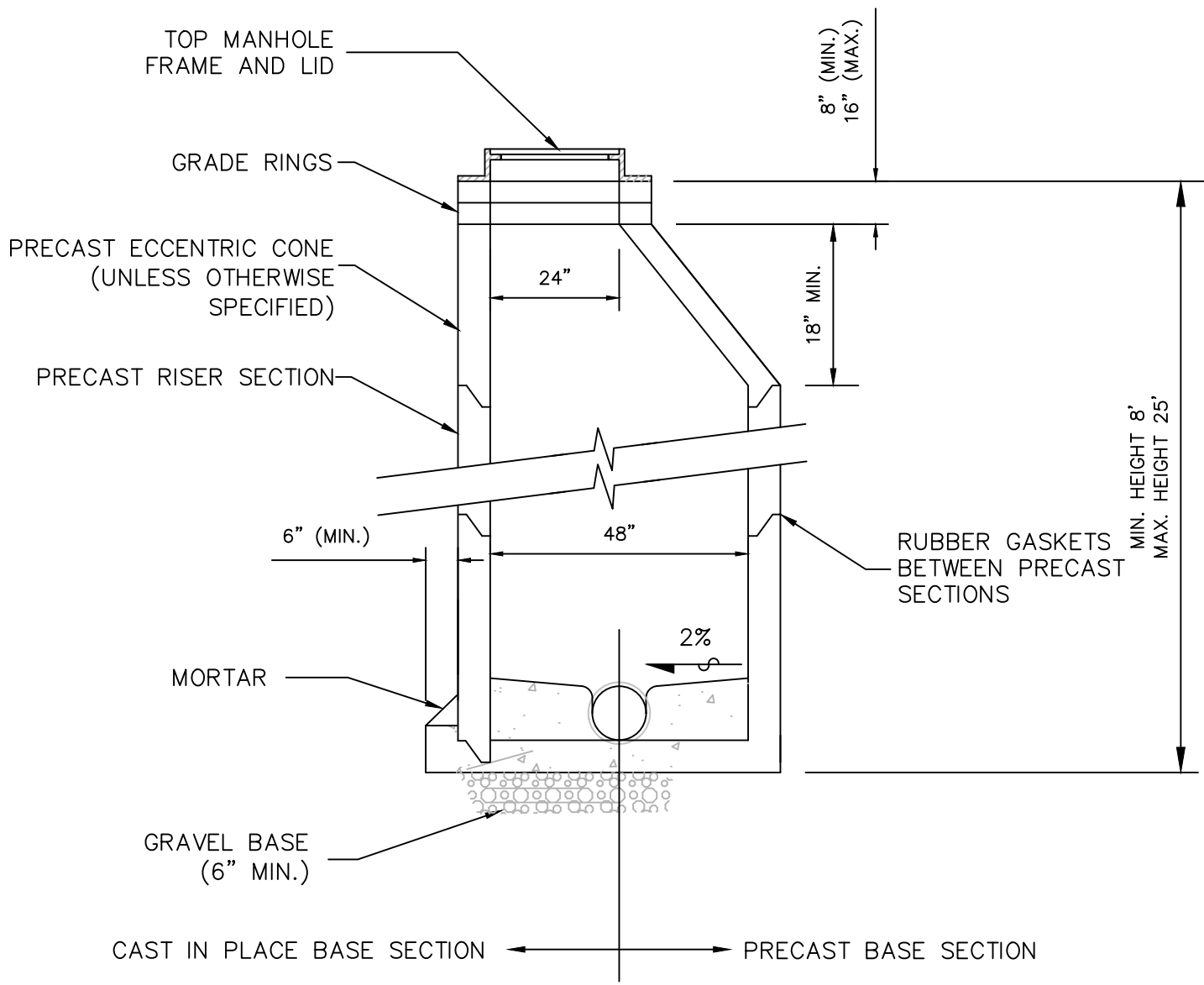
TRENCHES AND PIPE CONNECTIONS A

SEWER TRENCH DETAILS

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NOTES:

1. MATCH CROWNS OF SEWERS.
2. FOR CAST IN PLACE BASE, CONSTRUCT IN FIELD CHANNEL AND SHELF TO THE CROWN OF THE PIPE.
3. FOR PRECAST BASE, USE GRAVEL BACKFILL, 6" MIN. COMPACTED DEPTH UNDER THE BASE.
4. ALL RIGID PIPE ENTERING OR LEAVING THE MANHOLE SHALL BE PROVIDED WITH FLEXIBLE JOINTS WITHIN 1 1/2 PIPE DIAMETERS OF THE MANHOLE STRUCTURE.
5. INSTALL DROP MANHOLE CONNECTION IF INVERT OF ANY INCOMING SEWER IS MORE THAN 2'-0" ABOVE THE TOP OF THE MAIN SEWER.
6. IN UNIMPROVED AREAS AND EASEMENTS, MANHOLE SHALL EXTEND A MINIMUM OF 2" AND A MAXIMUM OF 4" ABOVE FINISHED GRADE.
7. MANHOLE RING AND COVER SHALL HAVE A CLEAR OPENING. WORDING ON COVER SHALL BE "SEWER" IN 3" RAISED LETTERS.
8. ALL MANHOLE JOINTS SHALL USE A CONFINED ROUND RUBBER GASKET MEETING ASTM C-443 SPECIFICATIONS.



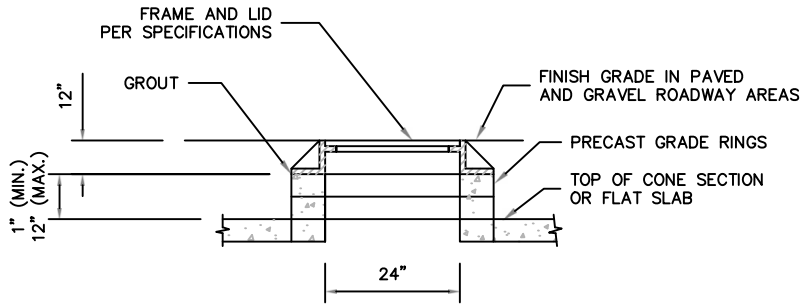
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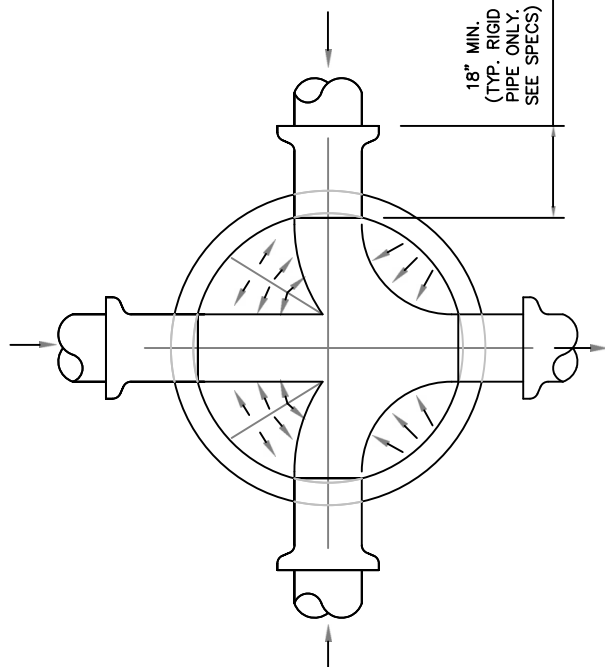
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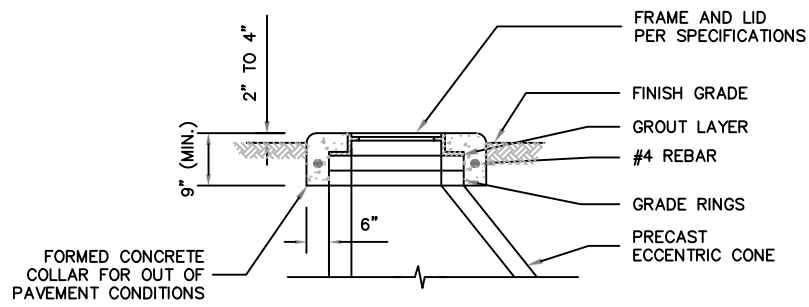
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TYPICAL TOP SECTION



GENERAL PLAN OF CHANNEL INTERSECTION



MANHOLE FRAME COLLAR UNPAVED AREAS

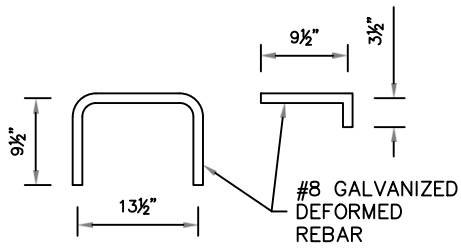


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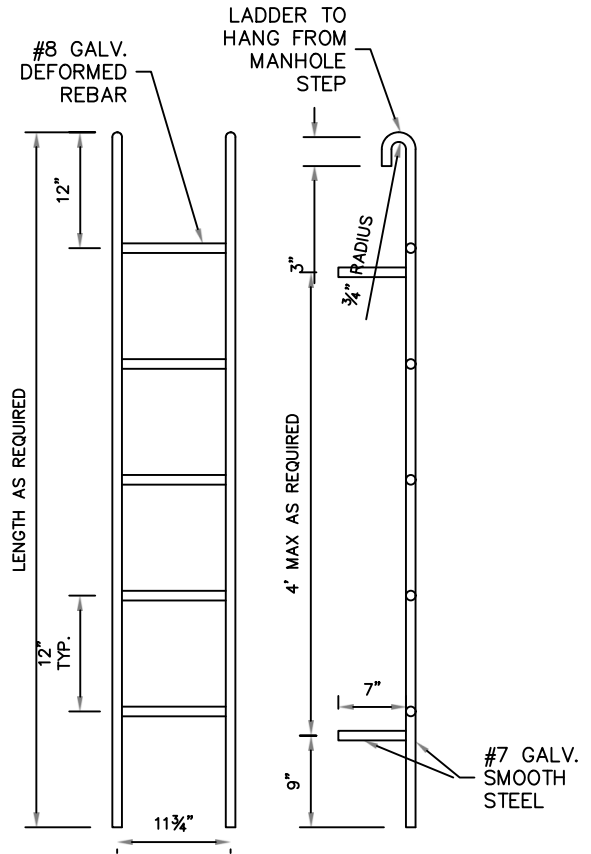
MANHOLES C

TOP SECTION AND CHANNELIZATION

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AFETY STEP



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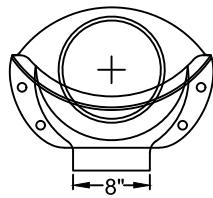


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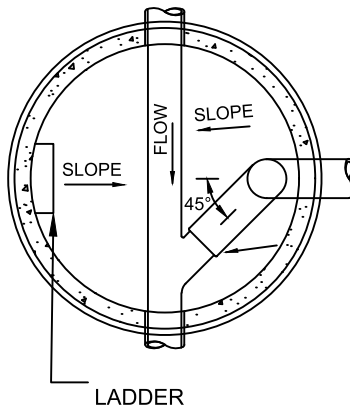
MA HOLE DETAIL - LADDER

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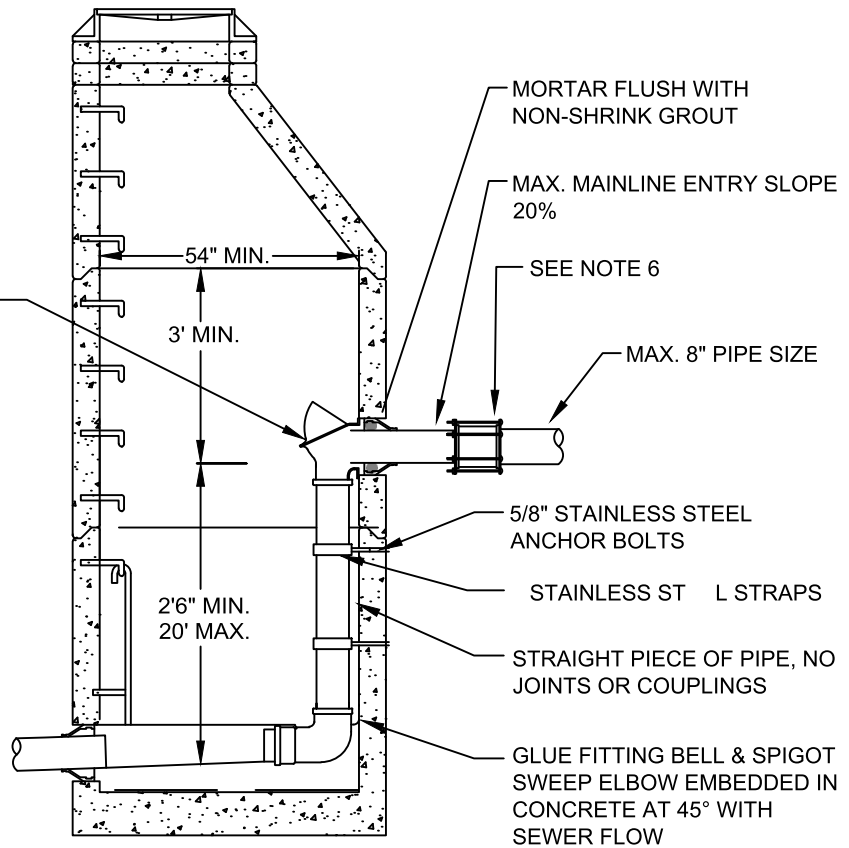


INSIDE DROP BOWL
MOUNTING POSITION

INSIDE DROP BOWL SECURED
WITH 5/8" STAINLESS STEEL
ANCHOR BOLTS



INSID DROP - PLAN



NOTES:

1. MANHOLE SHALL CONFORM TO GENERAL NOTES AND ALL APPLICABLE REQUIREMENTS OF STANDARD DETAILS.
2. DROP BOWL TO BE INSTALLED MINIMUM OF 3' BELOW CONE SECTION.
3. INSIDE DROP SHALL BE CONSTRUCTED USING ASTM D3034 SDR 35 PIPE AND FITTING.
4. RECHANNEL BASE WITH 3000 PSI CONCRETE. WIDTH AND DEPTH OF CHANNEL MUST EQUAL THE LARGEST PIPE DIAMETER WITH A SLOPE OF 2% MIN. CHANNEL WALLS MUST BE VERTICAL. SLOPE SHELF TO CHANNEL AT 1" PER FOOT MIN.
5. CORE DRILL OPENINGS FOR NEW PIPE AND USE KOR-N-SEAL CONNECTORS OR EQUAL.
6. USE MECHANICAL TRANSITION COUPLING WHEN CONNECTING TO EXISTING SEWER MAINLINE.
7. CONE MAY NEED TO BE ROTATED AND/OR LADDER MOVED.
8. MINIMUM MANHOLE SIZE IS 54".
9. MAXIMUM OF 2 DROPS PER STRUCTURE.



Est. 1890

MANHOLE S F

DROP STRUCTURE

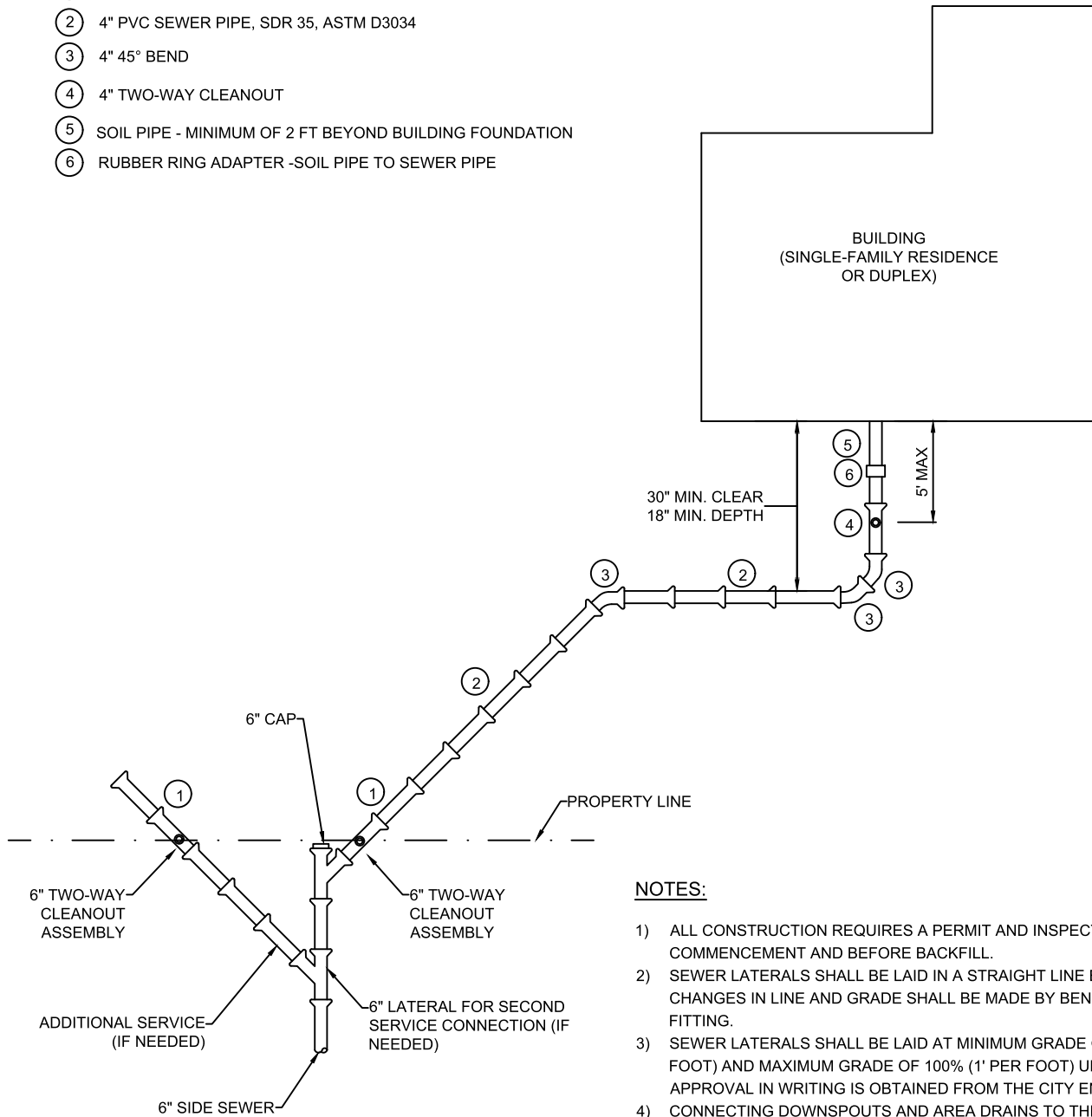
Page 246 of 316

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LEGEND:

- ① 6"x4" ECCENTRIC REDUCER
- ② 4" PVC SEWER PIPE, SDR 35, ASTM D3034
- ③ 4" 45° BEND
- ④ 4" TWO-WAY CLEANOUT
- ⑤ SOIL PIPE - MINIMUM OF 2 FT BEYOND BUILDING FOUNDATION
- ⑥ RUBBER RING ADAPTER -SOIL PIPE TO SEWER PIPE

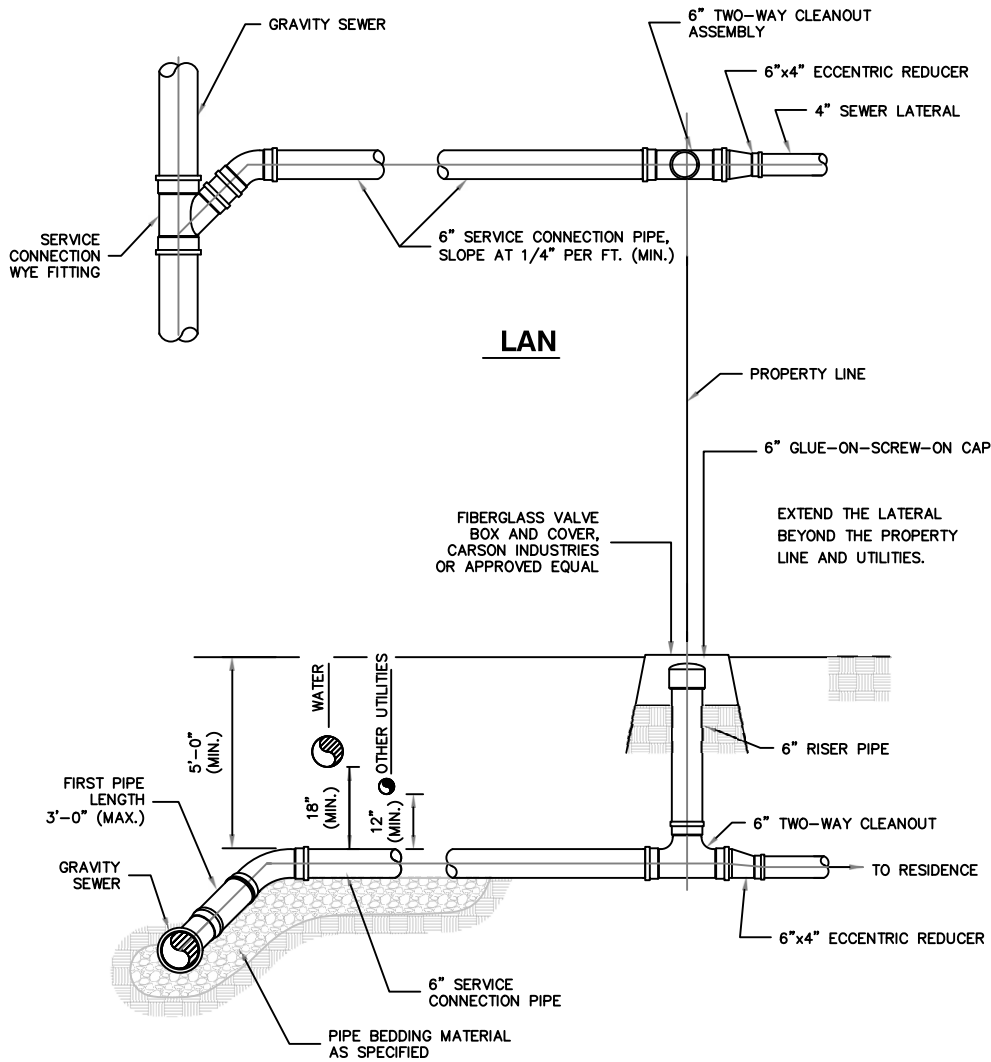


NOTES:

- 1) ALL CONSTRUCTION REQUIRES A PERMIT AND INSPECTION PRIOR TO COMMENCEMENT AND BEFORE BACKFILL.
- 2) SEWER LATERALS SHALL BE LAID IN A STRAIGHT LINE BETWEEN BENDS, CHANGES IN LINE AND GRADE SHALL BE MADE BY BENDS OR WYE FITTING.
- 3) SEWER LATERALS SHALL BE LAID AT MINIMUM GRADE OF 2% (1/4" PER FOOT) AND MAXIMUM GRADE OF 100% (1' PER FOOT) UNLESS PRIOR APPROVAL IN WRITING IS OBTAINED FROM THE CITY ENGINEER.
- 4) CONNECTING DOWNSPOUTS AND AREA DRAINS TO THE SEWER SYSTEM IS PROHIBITED AND WILL RESULT IN FINES.
- 5) CLEANOUTS ARE REQUIRED FOR LATERALS EXCEEDING 100 FT., AT ANY BEND EXCEEDING 1/8" BEND (45°) AND WITHIN TEN (10) FT OF A BUILDING FOUNDATION.
- 6) FROM MAIN TO CLEANOUT AT PROPERTY LINE SHALL BE 6" PIPE. FROM PROPERTY LINE CLEANOUT TO BUILDING SHALL BE 4" FOR SINGLE FAMILY RESIDENCE AND 6" FOR DUPLEX. CLEANOUTS ARE REQUIRED EVERY 100 FEET OR PORTION THEREOF, AT ALL CHANGE OF DIRECTIONS AND AT THE PROPERTY LINE.

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SCALE	NTS
DRAWING NUMBER	940

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LAN

FIBERGLASS VALVE BOX AND COVER, CARSON INDUSTRIES OR APPROVED EQUAL

EXTEND THE LATERAL BEYOND THE PROPERTY LINE AND UTILITIES.

INSTALL LOCATOR WIRE ON ALL LATERALS TO THE SEWER MAIN

NOTE:
 CONNECT ALL SERVICE CONNECTIONS 8" AND LARGER AT MANHOLE.
 DETAILS TO BE APPROVED BY CITY ENGINEER.

: NGIN RING D V LOPM NT G ID LIN S 2018 PDAT STANDARD D TAILS N W STANDARDS CAD FIL S 941

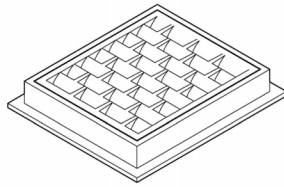


LATERALS AND SERVICE CONNECTIONS B

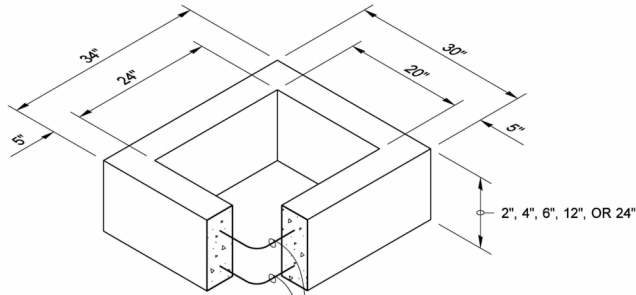
SINGLE SERVICE CONNECTION

Page 248 of 316

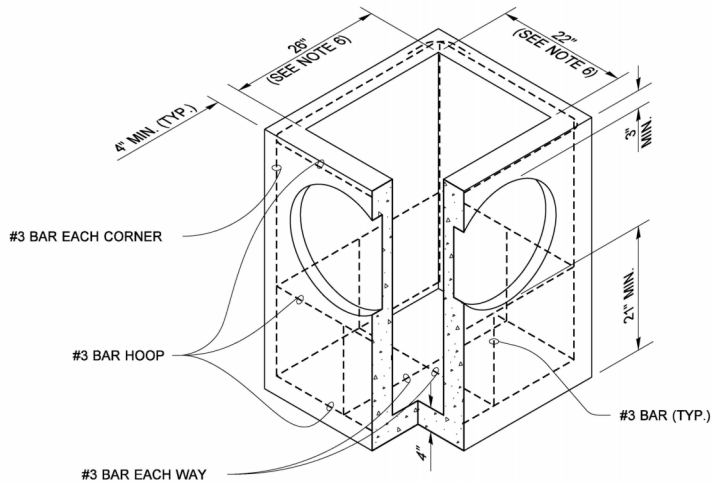
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SCALE	NTS
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FRAME AND VANED GRATE



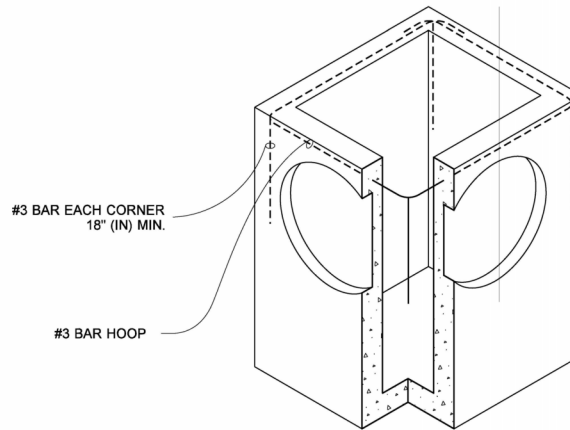
RECTANGULAR ADJUSTMENT SECTION



PRECAST BASE SECTION

PIPE ALLOWANCES	
PIPE MATERIAL	MAXIMUM INSIDE DIAMETER (INCHES)
REINFORCED OR PLAIN CONCRETE	12"
ALL METAL PIPE	15"
CPSSP * (STD. SPEC. SECT. 9-05.20)	12"
SOLID WALL PVC (STD. SPEC. SECT. 9-05.12(1))	15"
PROFILE WALL PVC (STD. SPEC. SECT. 9-05.12(2))	15"

* CORRUGATED POLYETHYLENE STORM SEWER PIPE



ALTERNATIVE PRECAST BASE SECTION

NOTES

1. As acceptable alternatives to the rebar shown in the **PRECAST BASE SECTION**, fibers (placed according to the Standard Specifications), or wire mesh having a minimum area of 0.12 square inches per foot shall be used with the minimum required rebar shown in the **ALTERNATIVE PRECAST BASE SECTION**. Wire mesh shall not be placed in the knockouts.
2. The knockout diameter shall not be greater than 20" (in). Knockouts shall have a wall thickness of 2" (in) minimum to 2.5" (in) maximum. Provide a 1.5" (in) minimum gap between the knockout wall and the outside of the pipe. After the pipe is installed, fill the gap with joint mortar in accordance with **Standard Specification Section 9-04.3**.
3. The maximum depth from the finished grade to the lowest pipe invert shall be 5' (ft).
4. The frame and grate may be installed with the flange down, or integrally cast into the adjustment section with flange up.
5. The Precast Base Section may have a rounded floor, and the walls may be sloped at a rate of 1 : 24 or steeper.
6. The opening shall be measured at the top of the **Precast Base Section**.
7. All pickup holes shall be grouted full after the basin has been placed.



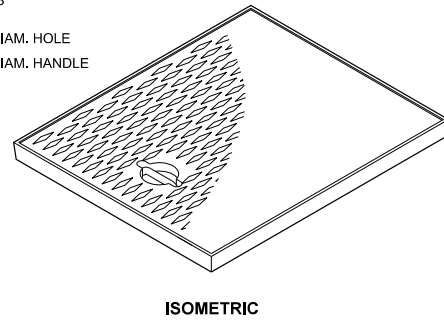
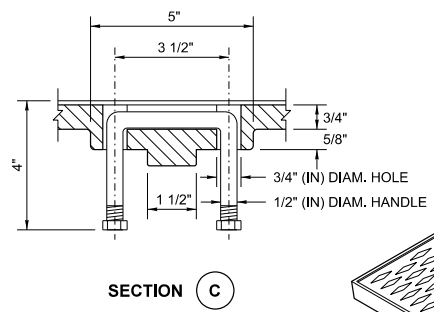
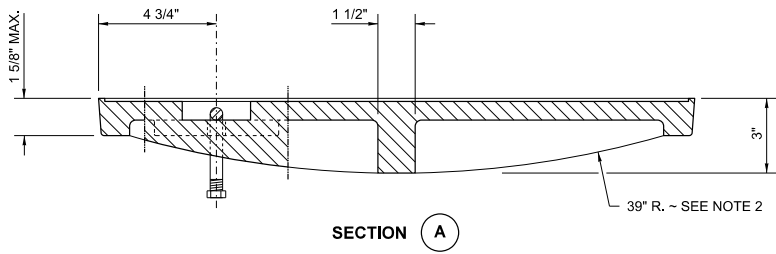
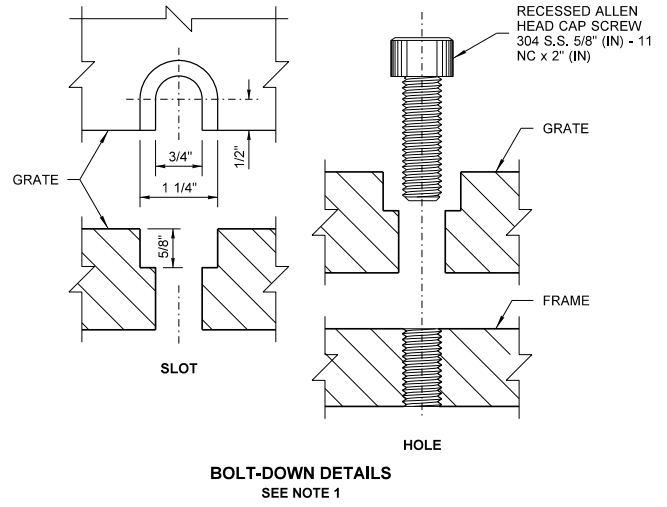
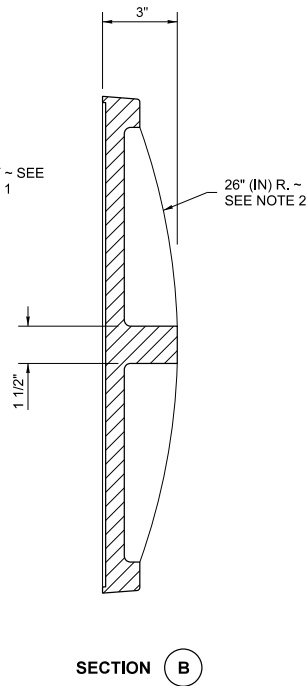
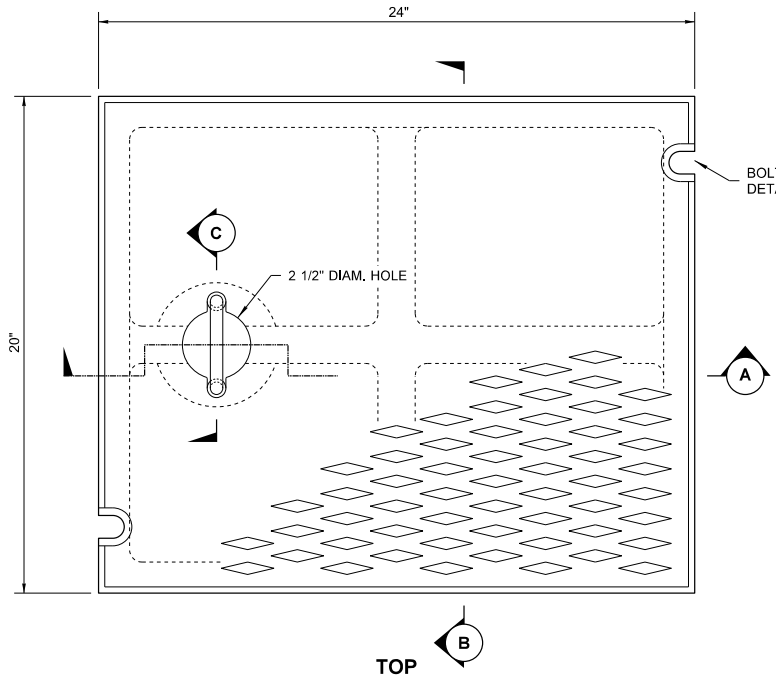
Julie Heilman
2020.09.01 07:52:50 -07'00'

CATCH BASIN TYPE 1

STANDARD PLAN B-5.20-03

SHEET 1 OF 1 SHEET

APPROVED FOR PUBLICATION
Roark, Steve Digitally signed by Roark, Steve
 Date: 2020.09.09 09:45:23 -07'00'
 STATE DESIGN ENGINEER
 Washington State Department of Transportation



NOTES

1. Bolt-down capability is required on all frames, grates, and covers, unless specified otherwise in the Contract. Provide 2 holes in the frame that are vertically aligned with the grate or cover slots. The frame shall accept the 304 Stainless Steel (S.S.) 5/8" (in) - 11 NC x 2" (in) allen head cap screw by being tapped, or other approved mechanism. Location of bolt-down holes varies by manufacturer.
2. Alternative reinforcing designs are acceptable in lieu of the rib design.
3. Refer to **Standard Specification Section 9-05.15** and **9-05.15(2)** for additional requirements.
4. For frame details, see **Standard Plan B-30.10**.



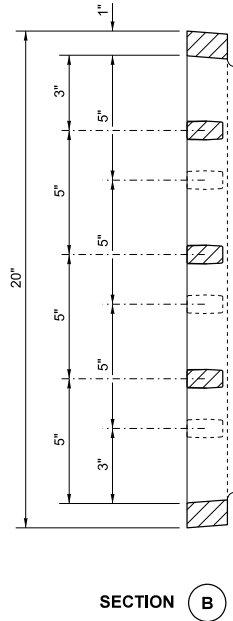
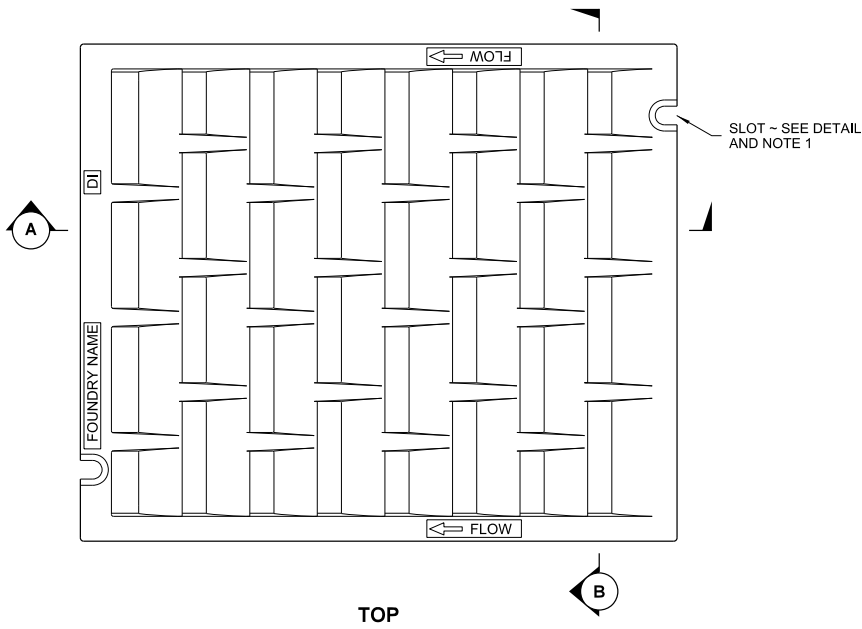
Julie Heilman
Heilman, Julie
Feb 20 2018 12:53 PM

RECTANGULAR SOLID METAL COVER
STANDARD PLAN B-30.20-04
SHEET 1 OF 1 SHEET

APPROVED FOR PUBLICATION
Carpenter, Jeff
Feb 27 2018 7:57 AM

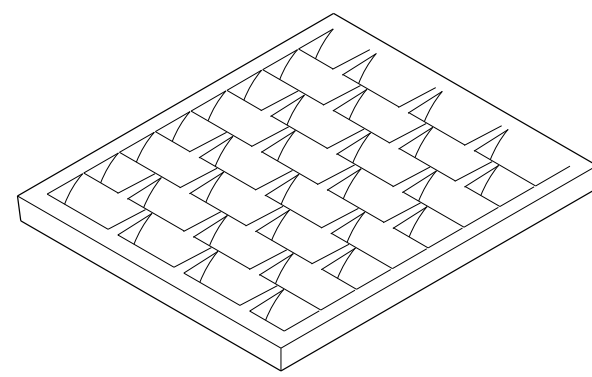
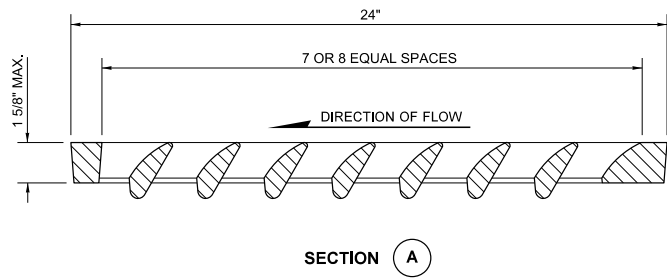
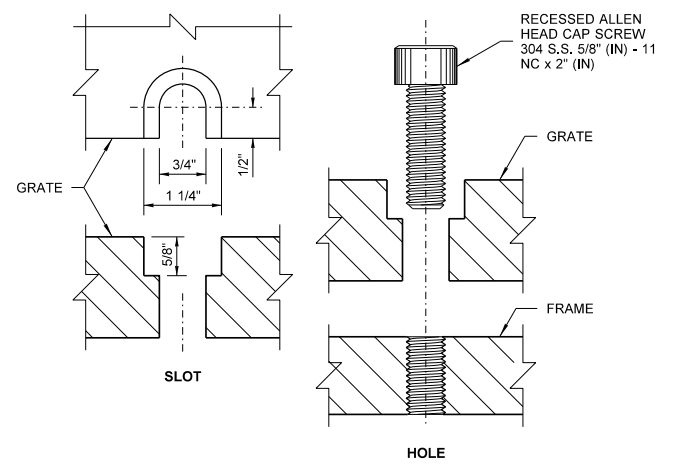
STATE DESIGN ENGINEER
Washington State Department of Transportation

DRAWN BY: FERN LIDDELL



NOTES

1. Bolt-down capability is required on all frames, grates, and covers, unless specified otherwise in the Contract. Provide 2 holes in the frame that are vertically aligned with the grate or cover slots. The frame shall accept the 304 Stainless Steel (S.S.) 5/8" (in) - 11 NC x 2" (in) allen head cap screw by being tapped, or other approved mechanism. Location of bolt-down holes varies by manufacturer.
2. Refer to **Standard Specification Section 9-05.15** and **9-05.15(2)** for additional requirements.
3. For frame details, see **Standard Plan B-30.10**.



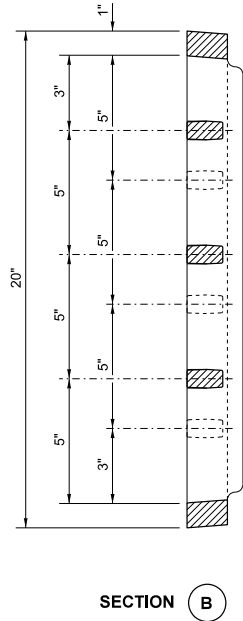
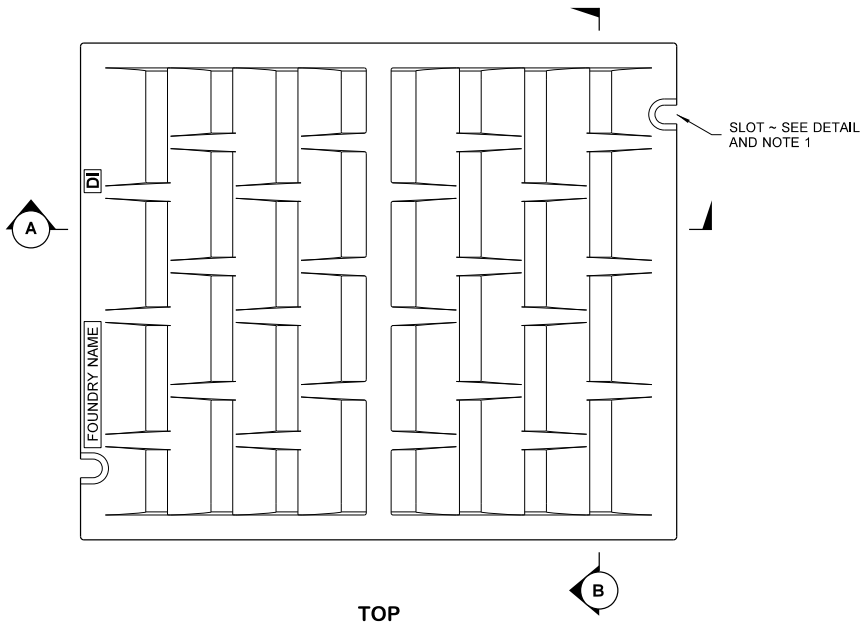
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Heilman, Julie
Feb 20 2018 12:54 PM
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**RECTANGULAR
VANED GRATE
STANDARD PLAN B-30.30-03**

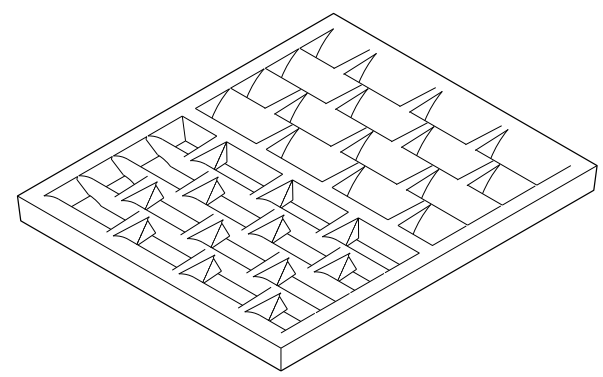
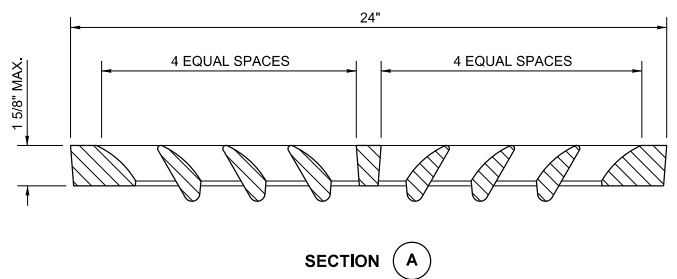
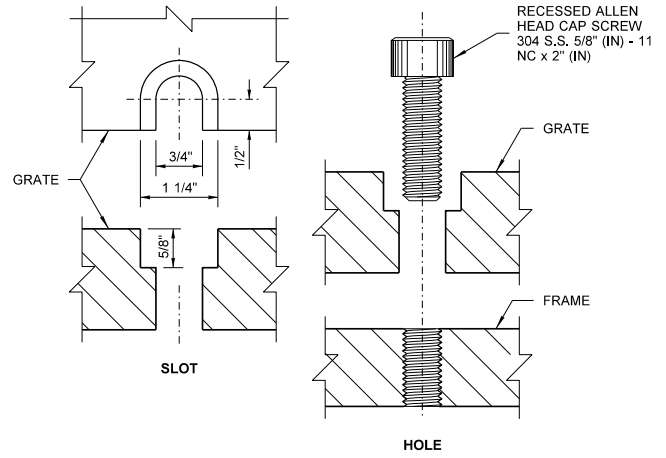
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Carpenter, Jeff
Feb 27 2018 7:58 AM
ccsgn
STATE DESIGN ENGINEER
Washington State Department of Transportation

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- NOTES**
1. Bolt-down capability is required on all frames, grates, and covers, unless specified otherwise in the Contract. Provide 2 holes in the frame that are vertically aligned with the grate or cover slots. The frame shall accept the 304 Stainless Steel (S.S.) 5/8" (in) - 11 NC x 2" (in) allen head cap screw by being tapped, or other approved mechanism. Location of bolt-down holes varies by manufacturer.
 2. Refer to **Standard Specification Section 9-05.15**, and **9-05.15(2)** for additional requirements.
 3. For frame details, see **Standard Plan B-30.10**.



Julie Heilman
Heilman, Julie
Feb 20 2018 12:54 PM

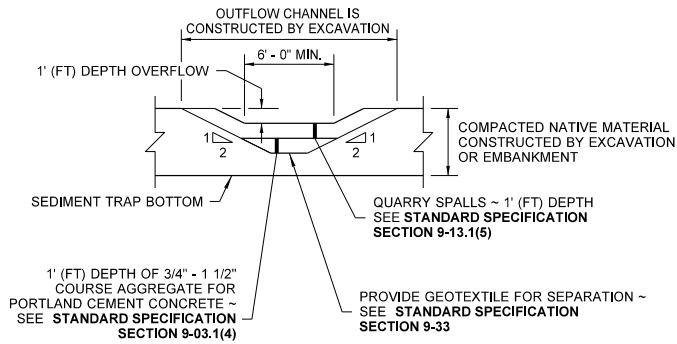
RECTANGULAR BI-DIRECTIONAL VANED GRATE
STANDARD PLAN B-30.40-03

SHEET 1 OF 1 SHEET

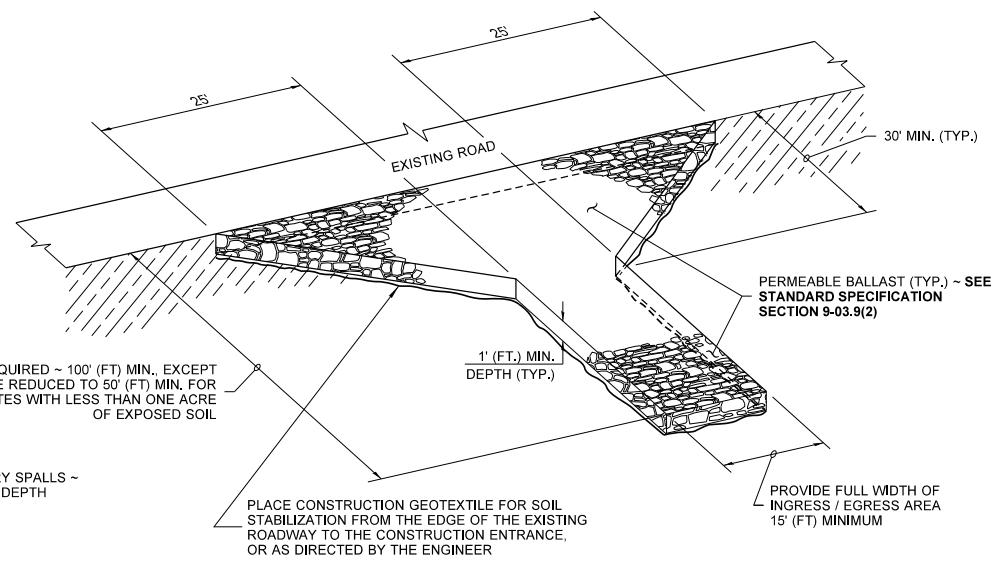
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STATE DESIGN ENGINEER
Washington State Department of Transportation

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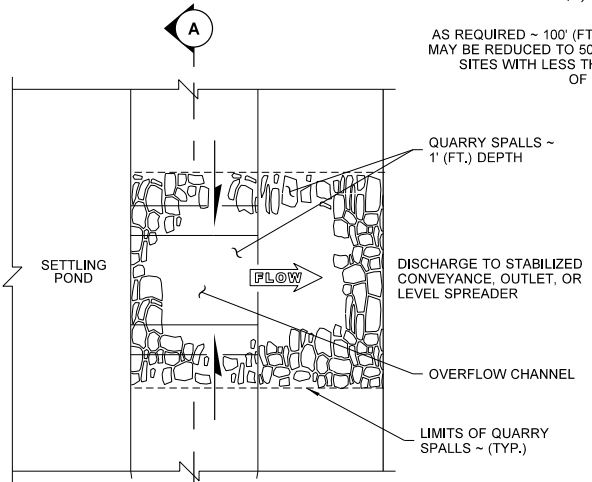


SECTION A

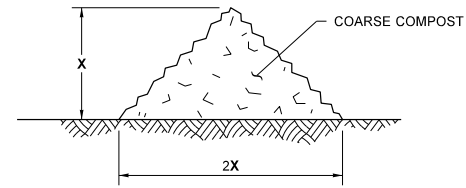


ISOMETRIC VIEW
STABILIZED CONSTRUCTION ENTRANCE

STABILIZED CONSTRUCTION ENTRANCE SHALL MEET THE REQUIREMENTS OF STANDARD SPECIFICATION SECTION 8-01.3(7).

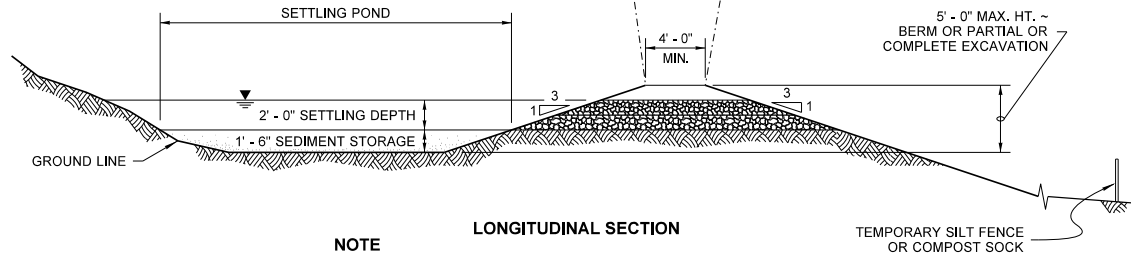


PARTIAL PLAN VIEW OF BERM
SHOWN LARGER FOR CLARITY



TYPICAL SECTION
COMPOST BERM DETAIL

X = 1' - 0" FOR SLOPES 4H:1V OR FLATTER
X = 1' - 6" FOR SLOPES STEEPER THAN 4H:1V



LONGITUDINAL SECTION

NOTE
PLACE GEOTEXTILE UNDER THE SPILLWAY AND SIDE SLOPES. PROVIDE A CONTINUOUS LAYER BETWEEN THE GRAVEL/ROCK AND THE NATIVE EARTHEN MATERIAL.

TEMPORARY SEDIMENT TRAP

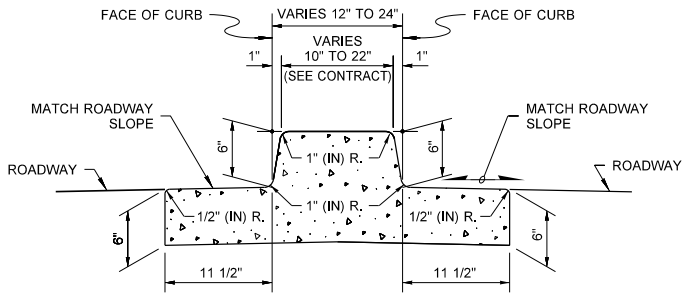
STATE OF WASHINGTON
REGISTERED
LANDSCAPE ARCHITECT
Hartwig, Juli
JULI DEE HARTWIG
LICENSE NO. 1422
DATE: 06-21-17

**MISCELLANEOUS
EROSION CONTROL DETAILS
STANDARD PLAN I-80.10-02**

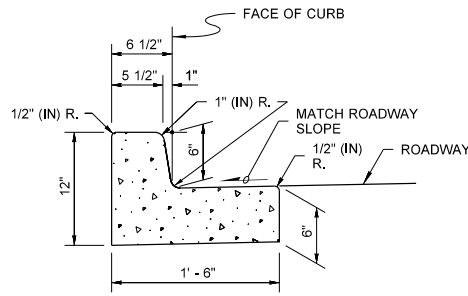
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Washington State Department of Transportation

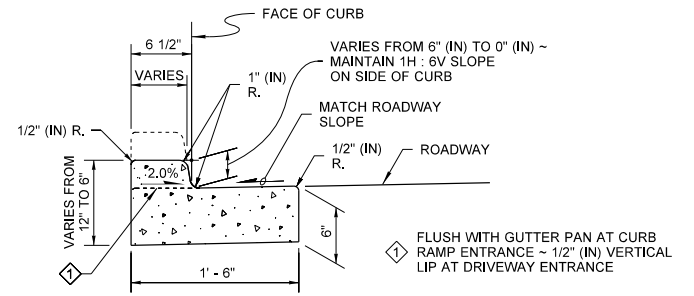
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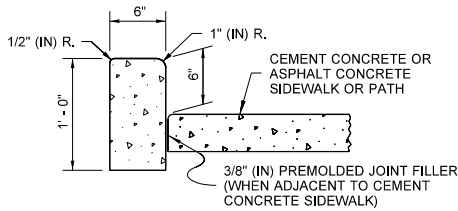
DUAL-FACED CEMENT CONCRETE TRAFFIC CURB AND GUTTER



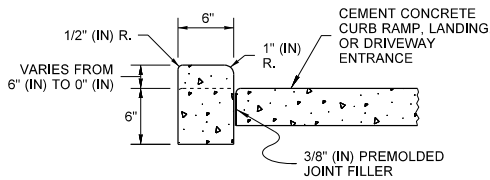
CEMENT CONCRETE TRAFFIC CURB AND GUTTER



DEPRESSED CURB AND GUTTER SECTION AT CURB RAMPS AND DRIVEWAY ENTRANCES



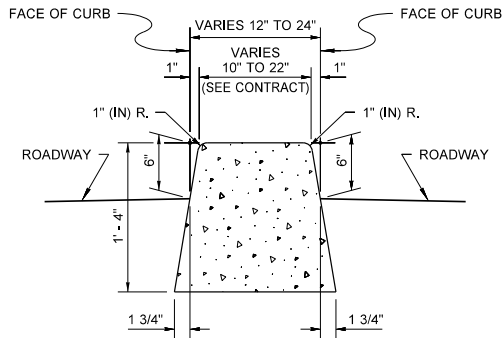
CEMENT CONCRETE PEDESTRIAN CURB



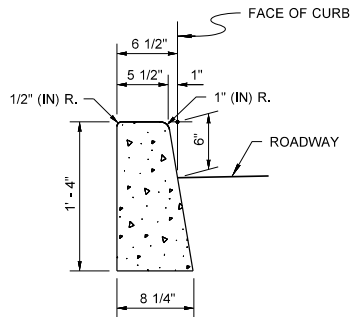
CEMENT CONCRETE PEDESTRIAN CURB AT CURB RAMPS, LANDINGS, AND DRIVEWAY ENTRANCES

NOTE

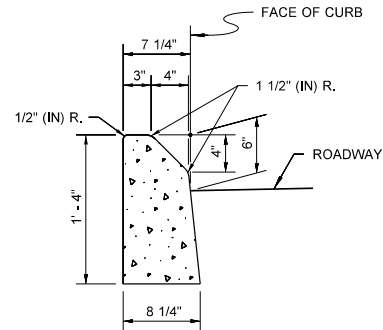
1. See **Standard Plan F-30.10** for Curb Expansion and Contraction Joint spacing. See **Standard Specification, Sections 8-04 and 9-04** for additional requirements.



DUAL-FACED CEMENT CONCRETE TRAFFIC CURB



CEMENT CONCRETE TRAFFIC CURB



MOUNTABLE CEMENT CONCRETE TRAFFIC CURB



Michael S Fleming
 CEMENT CONCRETE CURBS

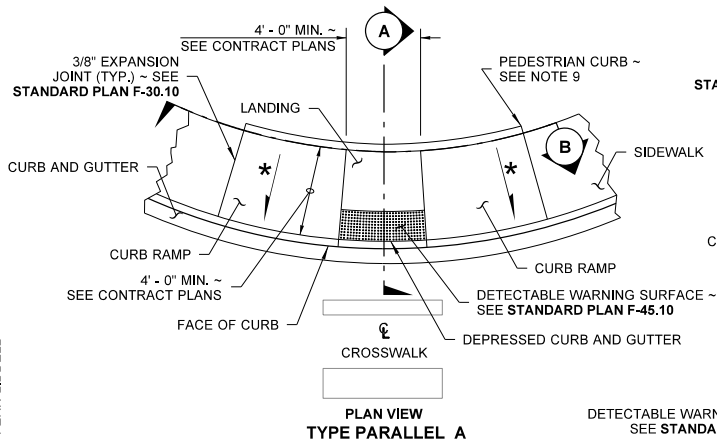
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STANDARD PLAN F-10.12-04

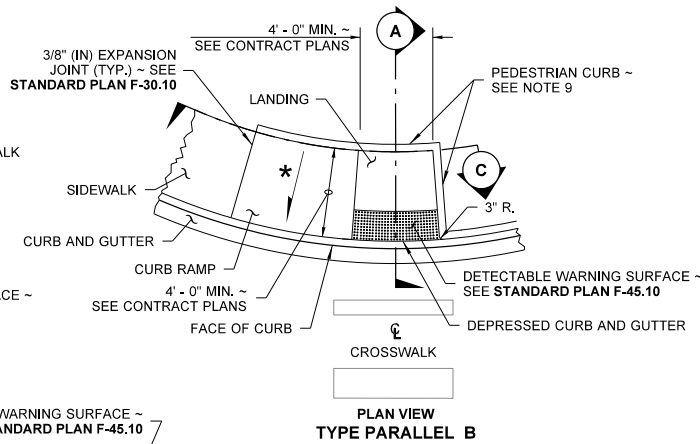
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 Washington State Department of Transportation

DRAWN BY: FERN LIDDELL

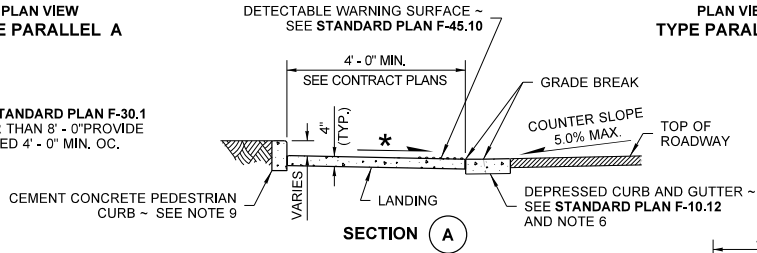


**PLAN VIEW
TYPE PARALLEL A**

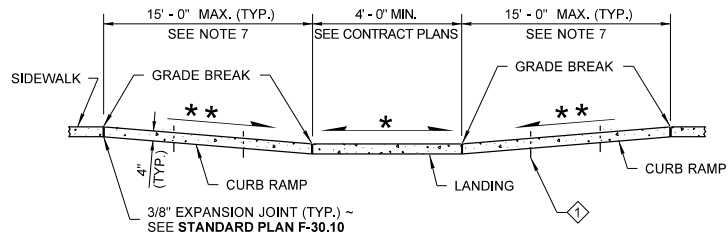


**PLAN VIEW
TYPE PARALLEL B**

◇ CONTRACTION JOINT (TYP.) ~ SEE **STANDARD PLAN F-30.1** FOR CURB RAMP LENGTHS GREATER THAN 8'-0" PROVIDE CONTRACTION JOINT EQUALLY SPACED 4'-0" MIN. OC.



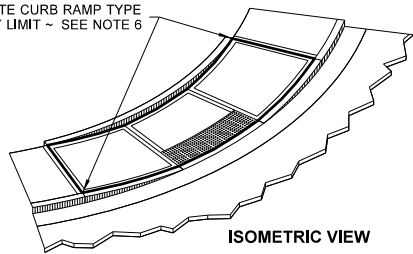
SECTION A



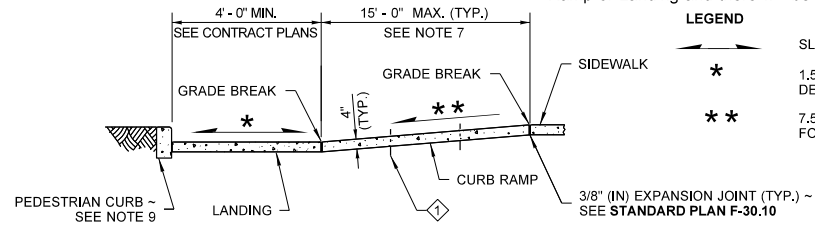
SECTION B

(ALONG INSIDE RADIUS AT BACK OF WALKWAY)

"CEMENT CONCRETE CURB RAMP TYPE PARALLEL A" PAY LIMIT ~ SEE NOTE 6



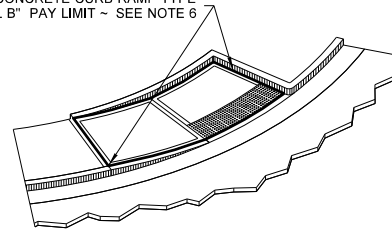
**ISOMETRIC VIEW
TYPE PARALLEL A PAY LIMIT**



SECTION C

(ALONG INSIDE RADIUS AT BACK OF WALKWAY)

"CEMENT CONCRETE CURB RAMP TYPE PARALLEL B" PAY LIMIT ~ SEE NOTE 6



**ISOMETRIC VIEW
TYPE PARALLEL B PAY LIMIT**

NOTES

- At marked crosswalks, the connection between the landing and the roadway must be contained within the width of the crosswalk markings.
- Where "GRADE BREAK" is called out, the entire length of the grade break between the two adjacent surface planes shall be flush.
- Do not place Gratings, Junction Boxes, Access Covers, or other appurtenances on any part of the Curb Ramp or Landing, or in the Depressed Curb and Gutter where the Landing connects to the roadway.
- See Contract Plans for the curb design specified. See **Standard Plan F-10.12** for Curb, Curb and Gutter, Depressed Curb and Gutter, and Pedestrian Curb details.
- See **Standard Plan F-30.10** for Cement Concrete Sidewalk Details. See Contract Plans for width and placement of sidewalk.
- The Bid Item "Cement Concrete Curb Ramp Type ___" does not include the adjacent Curb, Curb and Gutter, Depressed Curb and Gutter, Pedestrian Curb, or Sidewalks.
- The Curb Ramp length is not required to exceed 15 feet (unless otherwise shown in the Contract Plans). When applying the 15-foot max. length, the running slope of the curb ramp is allowed to exceed 8.3%. Use a single constant slope from bottom of ramp to top of ramp to match into the sidewalk over a horizontal distance of 15 feet. Do not include abutting landing(s) in the 15-foot max. measurement. When a ramp is constructed on a radius, the 15-foot max. length is measured on the inside radius along the back of the walkway.
- Curb Ramps and Landings shall receive a broom finish. See **Standard Specifications 8-14**.
- Pedestrian Curb may be omitted if the ground surface at the back of the Curb Ramp and/or Landing will be at the same elevation as the Curb Ramp or Landing and there will be no material to retain.

LEGEND

- ← SLOPE IN EITHER DIRECTION
- * 1.5% OR FLATTER RECOMMENDED FOR DESIGN/FORMWORK (2% MAX.)
- ** 7.5% OR FLATTER RECOMMENDED FOR DESIGN/FORMWORK (8.3% MAX.) ~ SEE NOTE 7



Zeller, Scott
Jun 24 2016 7:19 AM

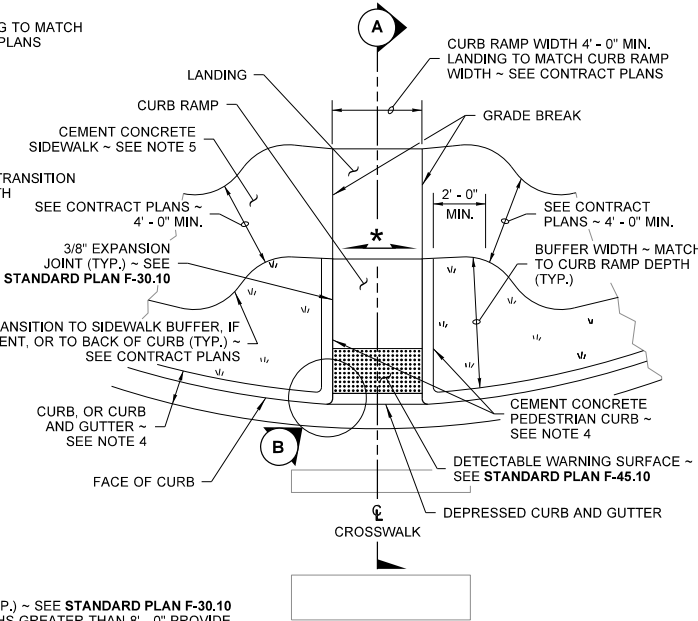
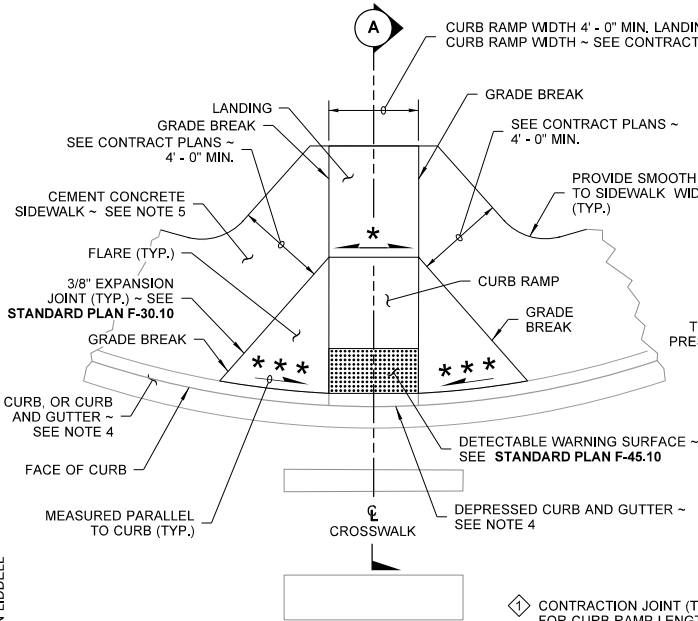
PARALLEL CURB RAMP

STANDARD PLAN F-40.12-03

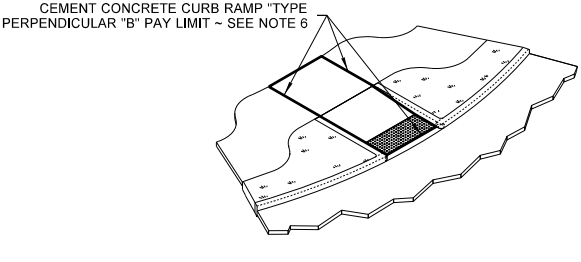
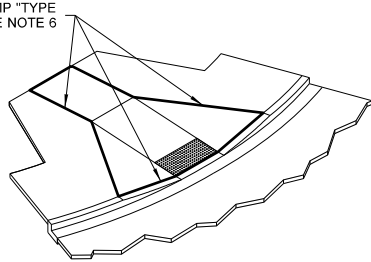
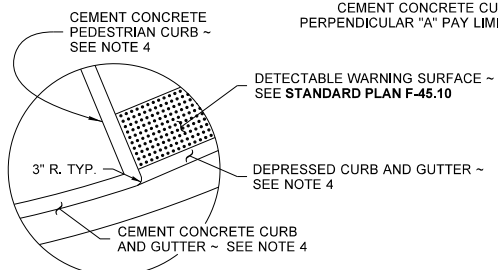
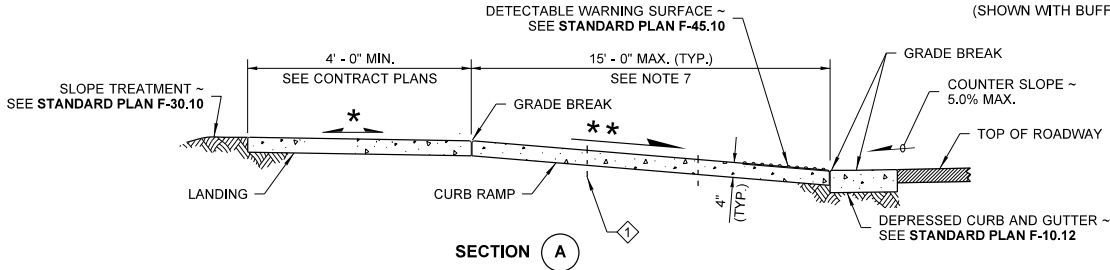
SHEET 1 OF 1 SHEET

APPROVED FOR PUBLICATION
Carpenter, Jeff Carpenter, Jeff
 Jun 29 2016 2:27 PM
 STATE DESIGN ENGINEER
 Washington State Department of Transportation

DRAWN BY: FERN LIDDELL



◇ CONTRACTION JOINT (TYP.) ~ SEE STANDARD PLAN F-30.10 FOR CURB RAMP LENGTHS GREATER THAN 8' - 0" PROVIDE CONTRACTION JOINT EQUALLY SPACED 4' - 0" MIN. OC.

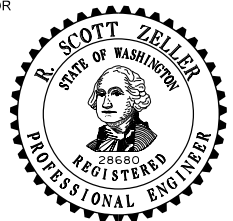


NOTES

1. At marked crosswalks, the connection between the curb ramp and the roadway must be contained within the width of the crosswalk markings.
2. Where "GRADE BREAK" is called out, the entire length of the grade break between the two adjacent surface planes shall be flush.
3. Do not place Gratings, Junction Boxes, Access Covers, or other appurtenances on any part of the Curb Ramp or Landing, or in front of the Curb Ramp where it connects to the roadway.
4. See Contract Plans for the curb design specified. See **Standard Plan F-10.12** for Curb, Curb and Gutter, Depressed Curb and Gutter, and Pedestrian Curb details.
5. See **Standard Plan F-30.10** for Cement Concrete Sidewalk Details. See Contract Plans for width and placement of sidewalk.
6. The Bid Item "Cement Concrete Curb Ramp Type ___" does not include the adjacent Curb, Curb and Gutter, Depressed Curb and Gutter, Pedestrian Curb, or Sidewalks.
7. The Curb Ramp length is not required to exceed 15 feet (unless shown otherwise in the Contract Plans). When applying the 15-foot max. length, the running slope of the Curb Ramp is allowed to exceed 8.3%. Use a single constant slope from bottom of ramp to top of ramp to match into the landing over a horizontal distance of 15 feet. Do not include the abutting landing in the 15-foot max. measurement.
8. Curb Ramps and Landings shall receive a broom finish. See **Standard Specifications 8-14**.
9. Pedestrian Curb may be omitted if the ground surface at the back of the Curb Ramp and/or Landing will be at the same elevation as the Curb Ramp or Landing and there will not be material to retain.

LEGEND

- SLOPE IN EITHER DIRECTION
- * 1.5% OR FLATTER RECOMMENDED FOR DESIGN/FORMWORK (2% MAX.)
- ** 7.5% OR FLATTER RECOMMENDED FOR DESIGN/FORMWORK (8.3% MAX.)
- *** 9.5% OR FLATTER RECOMMENDED FOR DESIGN/FORMWORK (10% MAX.)

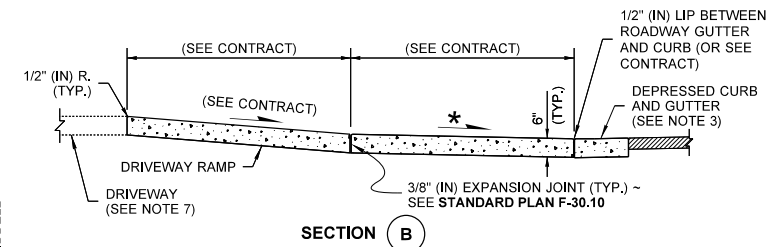
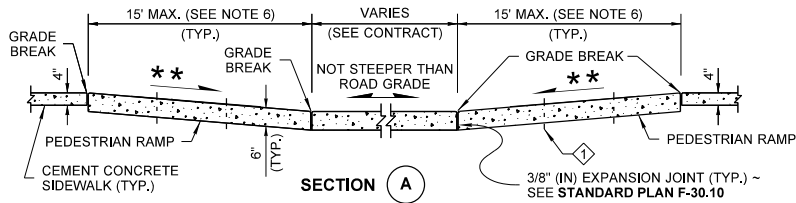
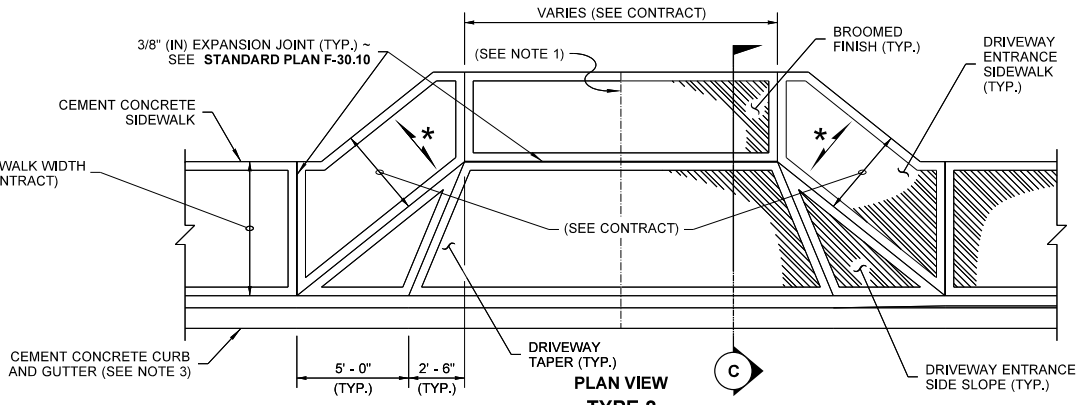
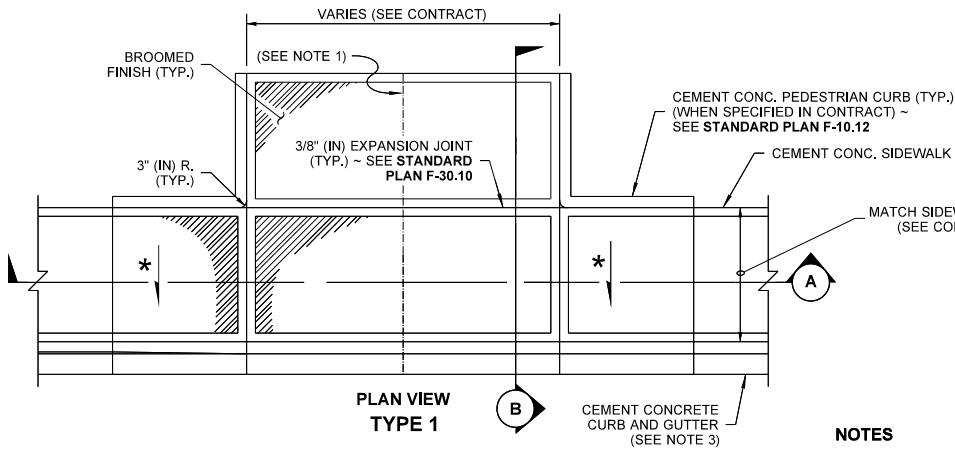


Digitally signed by R. Scott Zeller
Date: 2020.09.22 13:23:53 -07'00'

PERPENDICULAR CURB RAMP
STANDARD PLAN F-40.15-04

SHEET 1 OF 1 SHEET

APPROVED FOR PUBLICATION
Date: 2020.09.25
14:44:37 -07'00'
STATE DESIGN ENGINEER
Washington State Department of Transportation



"CEMENT CONCRETE DRIVEWAY ENTRANCE TYPE 1" PAY LIMITS

DRIVEWAY (SEE NOTE 7)
CL. 4000 CONCRETE PER STANDARD SPEC. 8-06.3

ISOMETRIC VIEW
TYPE 1 ~ PAY LIMITS

CONTRACTION JOINT (TYP.) ~ SEE STANDARD PLAN F-30.10 FOR RAMP LENGTHS GREATER THAN 8' - 0" PROVIDE CONTRACTION JOINT EQUALLY SPACED 4' - 0" MIN. OC.

DRIVEWAY (SEE NOTE 7)
CL. 4000 CONCRETE PER STANDARD SPEC. 8-06.3

"CEMENT CONCRETE DRIVEWAY ENTRANCE TYPE 2" PAY LIMITS

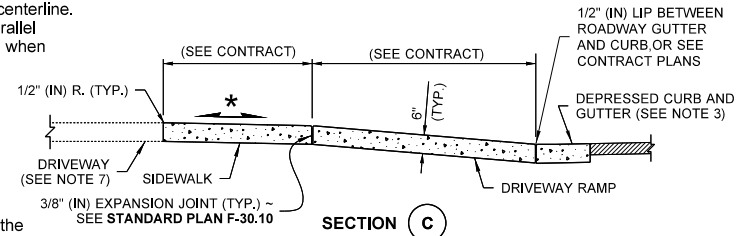
ISOMETRIC VIEW
TYPE 2 ~ PAY LIMITS

NOTES

1. When the driveway width exceeds 15' (ft), construct a full depth expansion joint with 3/8" (in) joint filler along the driveway centerline. See **Standard Plan F-30.10**. Construct expansion joints parallel with the centerline as required at 15' (ft) maximum spacing when driveway widths exceed 30' (ft).
2. See **Standard Plan F-30.10** for sidewalk details.
3. Curb and Gutter shown; see the Contract Plans for the curb design specified. See **Standard Plan F-10.12** for Curb Details.
4. Avoid placing drainage structures, junction boxes or other obstructions in front of driveway entrances.
5. Where "GRADE BREAK" is called out, the entire length of the line between the two adjacent surface planes shall be flush.
6. The Pedestrian Ramp length is not required to exceed 15 feet (unless otherwise shown in the Contract Plans). When applying the 15-foot max. length (measured from back of sidewalk) the running slope of the pedestrian ramp is allowed to exceed 8.3%. Use a single constant slope from bottom of ramp to top of ramp to match into the sidewalk over a horizontal distance of 15 feet.
7. Beyond limits shown. Pay item does not include driveway. See Contract Plans.

LEGEND

- ← SLOPE IN EITHER DIRECTION
- * 1.5% OR FLATTER RECOMMENDED FOR DESIGN/FORMWORK (2% MAX.)
- ** 7.5% OR FLATTER RECOMMENDED FOR DESIGN/FORMWORK (8.3% MAX.) (SEE NOTE 6)



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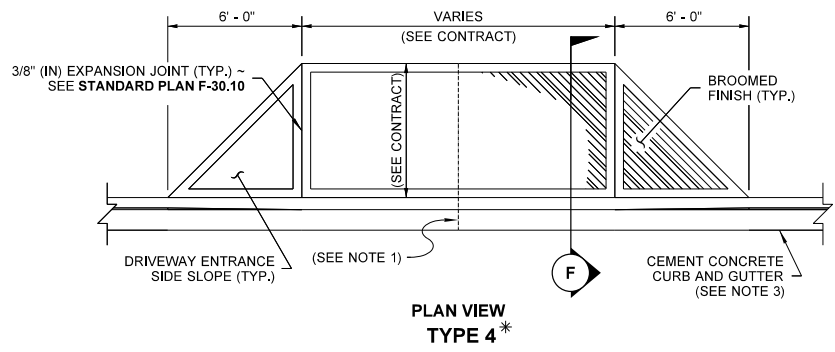
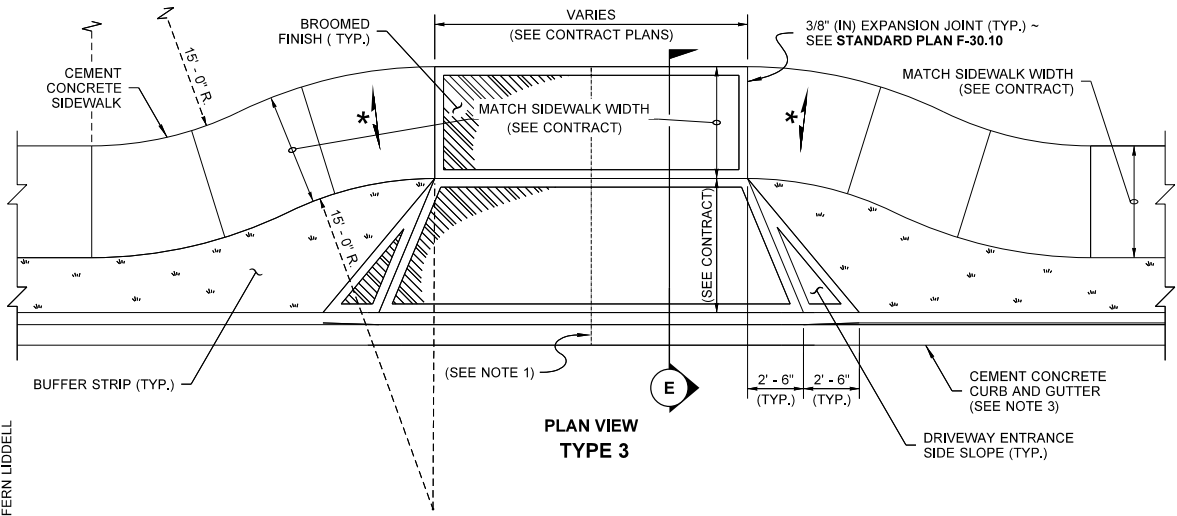


Zeller, Scott
Jul 12 2016 4:26 PM

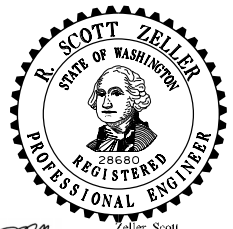
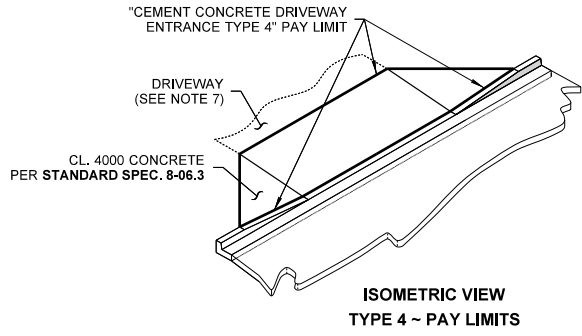
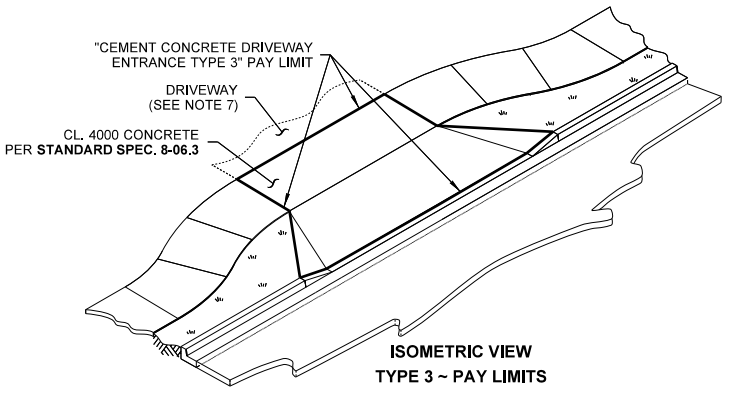
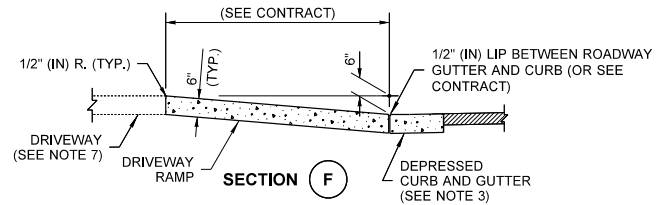
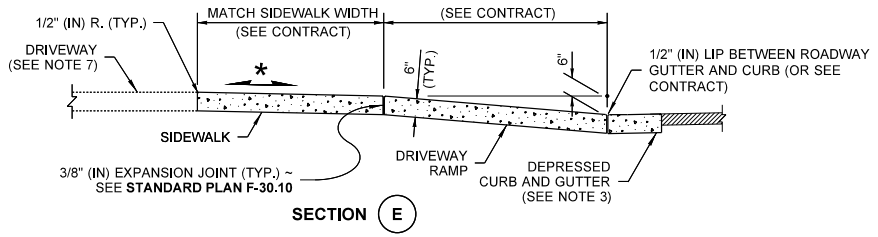
CEMENT CONCRETE DRIVEWAY ENTRANCE TYPES 1, 2, 3, & 4
STANDARD PLAN F-80.10-04
SHEET 1 OF 2 SHEETS

APPROVED FOR PUBLICATION
Carpenter, Jeff
Jul 15 2016 2:27 PM
STATE DESIGN ENGINEER
Washington State Department of Transportation

DRAWN BY: FERN LIDDELL



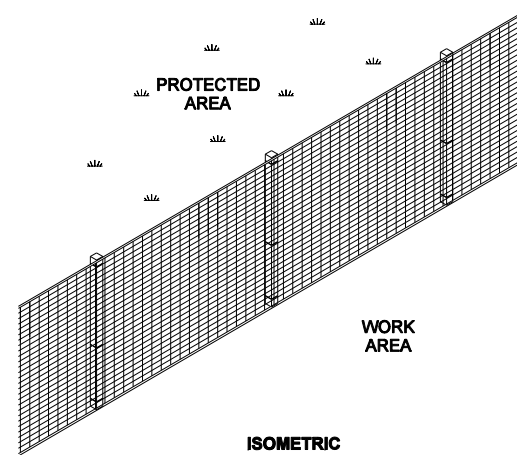
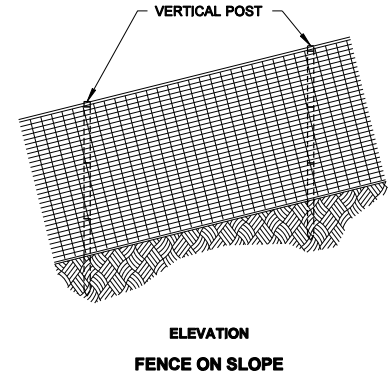
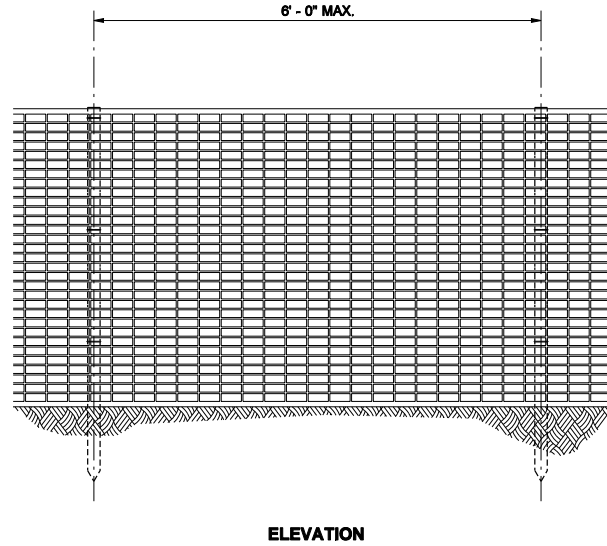
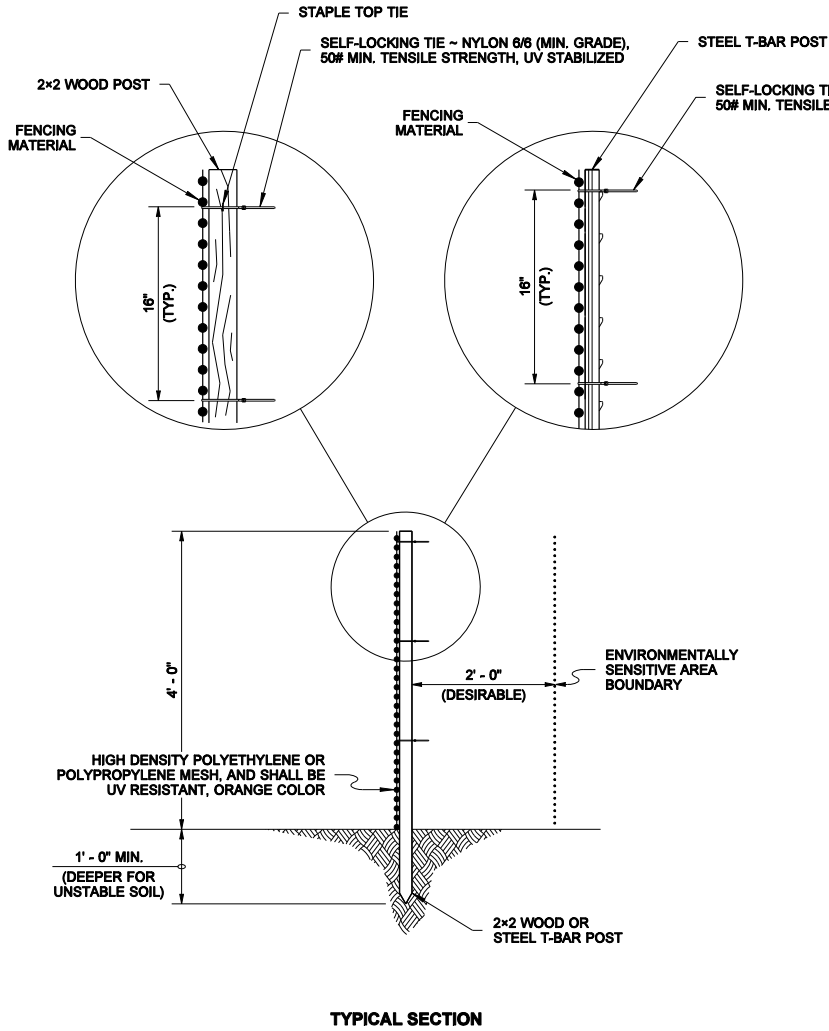
* THIS ENTRANCE TYPE SHALL NOT BE USED ALONG A PEDESTRIAN ROUTE



Zeller, Scott
Jul 18 2016 7:07 AM

CEMENT CONCRETE DRIVEWAY ENTRANCE TYPES 1, 2, 3, & 4
STANDARD PLAN F-80.10-04
SHEET 2 OF 2 SHEETS

APPROVED FOR PUBLICATION
Carpenter, Jeff
Jul 18 2016 12:22 PM
STATE DESIGN ENGINEER
Washington State Department of Transportation



NOTE

1. Post shall have sufficient strength and durability to support the fence through the life of the project.

STATE OF WASHINGTON
REGISTERED
LANDSCAPE ARCHITECT

MARK W. MAURER
CERTIFICATE NO. 000598

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HIGH VISIBILITY FENCE

STANDARD PLAN I-10.10-01

SHEET 1 OF 1 SHEET

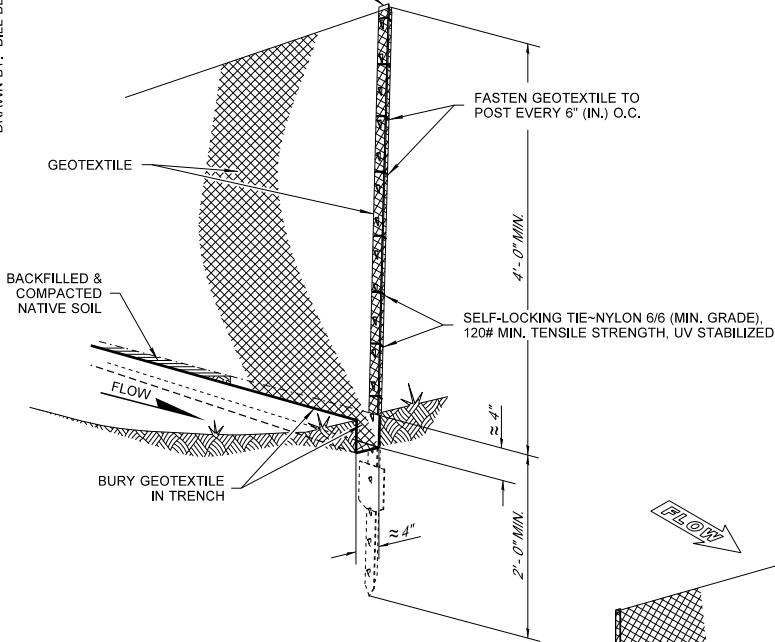
APPROVED FOR PUBLICATION

Pasco Bakotich III **08-11-09**
STATE DESIGN ENGINEER DATE

Washington State Department of Transportation

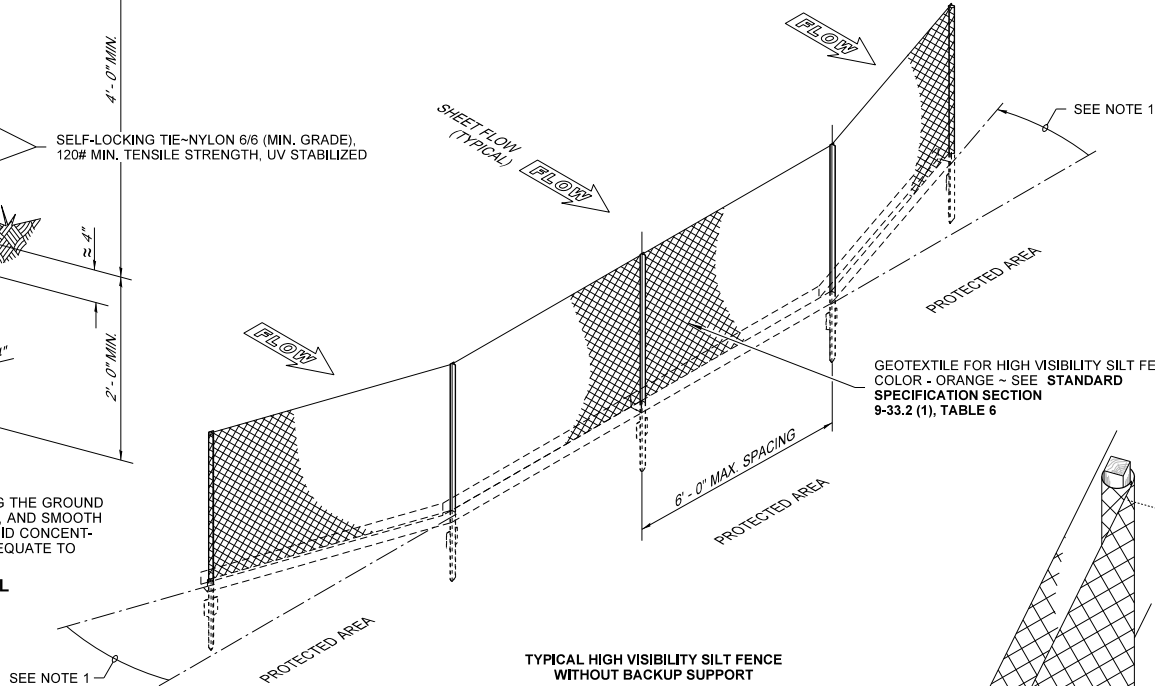
DRAWN BY: BILL BERENS

POST - SEE STANDARD SPECIFICATION, SECTION 8-01.3(9)A

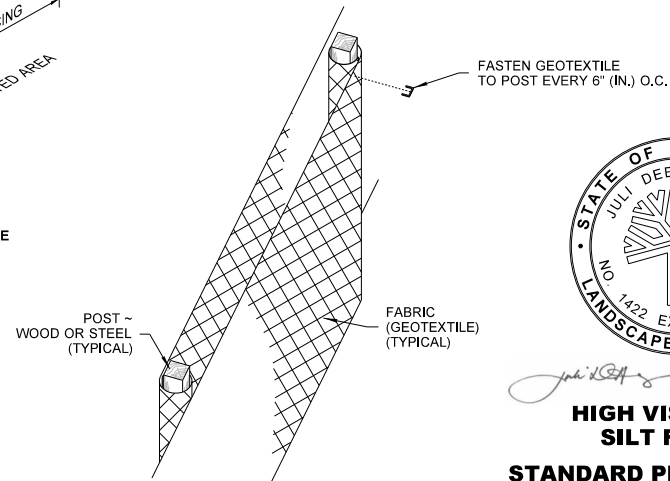


NOTE
 DURING EXCAVATION, MINIMIZE DISTURBING THE GROUND AROUND TRENCH AS MUCH AS IS FEASIBLE, AND SMOOTH SURFACE FOLLOWING EXCAVATION TO AVOID CONCENTRATING FLOWS. COMPACTION MUST BE ADEQUATE TO PREVENT UNDERCUTTING FLOWS.

TYPICAL INSTALLATION DETAIL
 (STEEL POSTS SHOWN)



TYPICAL HIGH VISIBILITY SILT FENCE WITHOUT BACKUP SUPPORT ISOMETRIC
 (STEEL POSTS SHOWN)



SPLICED FENCE SECTIONS SHALL BE CLOSE ENOUGH TOGETHER TO PREVENT SILT LADEN WATER FROM ESCAPING THROUGH THE FENCE AT THE OVERLAP. JOINING SECTIONS SHALL NOT BE PLACED IN LOW SPOTS OR IN SUMP LOCATIONS.

SPLICE DETAIL
 (WOOD POSTS SHOWN)

NOTES

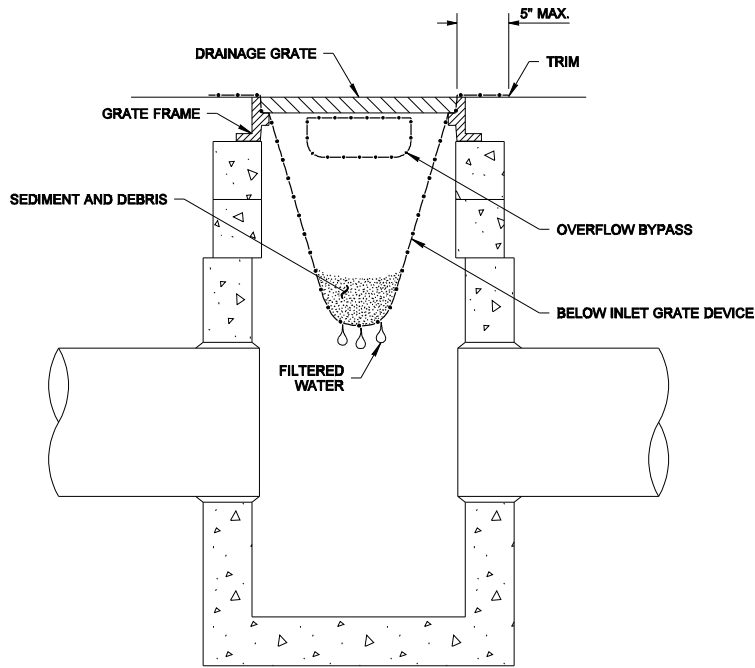
1. Angle Terminal end uphill 24" (in) to 48" (in) to prevent flow around fence (Typical).
2. Perform maintenance in accordance with **Standard Specification, Sections 8-01.3(9)A and 8-01.3(15)**.
3. Splices shall never be placed in low spots or sump locations. If splices are located in low or sump areas, the fence may need to be reinstalled unless the Project Engineer approves the installation.
4. Install silt fencing parallel to mapped contour lines.



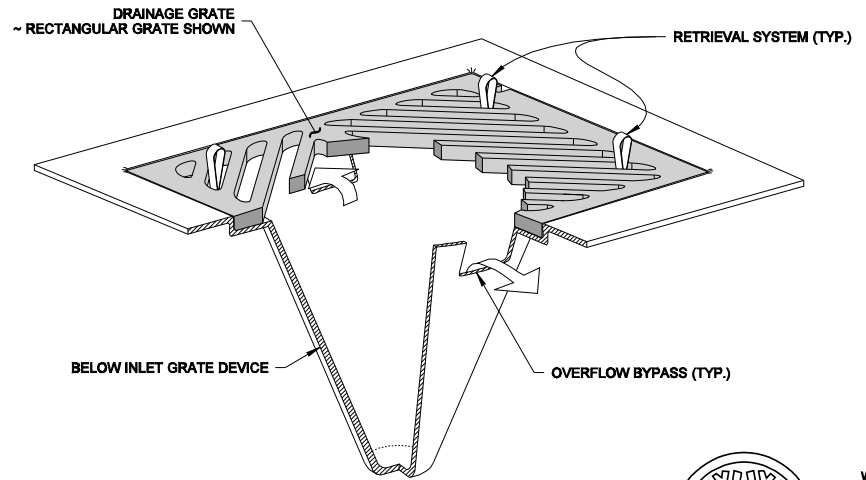
Hartwig, Juli
 Jun 4 2019 10:48 AM
 ccsign

HIGH VISIBILITY SILT FENCE
STANDARD PLAN I-30.17-01
 SHEET 1 OF 1 SHEET

APPROVED FOR PUBLICATION
 Roark, Steve
 Jun 12 2019 7:42 AM
 ccsign
 STATE DESIGN ENGINEER
 Washington State Department of Transportation



SECTION VIEW
NOT TO SCALE



ISOMETRIC VIEW

NOTES

1. Size the Below Inlet Grate Device (BIGD) for the storm water structure it will service.
2. The BIGD shall have a built-in high-flow relief system (overflow bypass).
3. The retrieval system must allow removal of the BIGD without spilling the collected material.
4. Perform maintenance in accordance with Standard Specification 8-01.3(15).



STATE OF
WASHINGTON
REGISTERED
LANDSCAPE ARCHITECT

MARK W. MAURER
CERTIFICATE NO. 000598

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**STORM DRAIN
INLET PROTECTION
STANDARD PLAN I-40.20-00**

SHEET 1 OF 1 SHEET

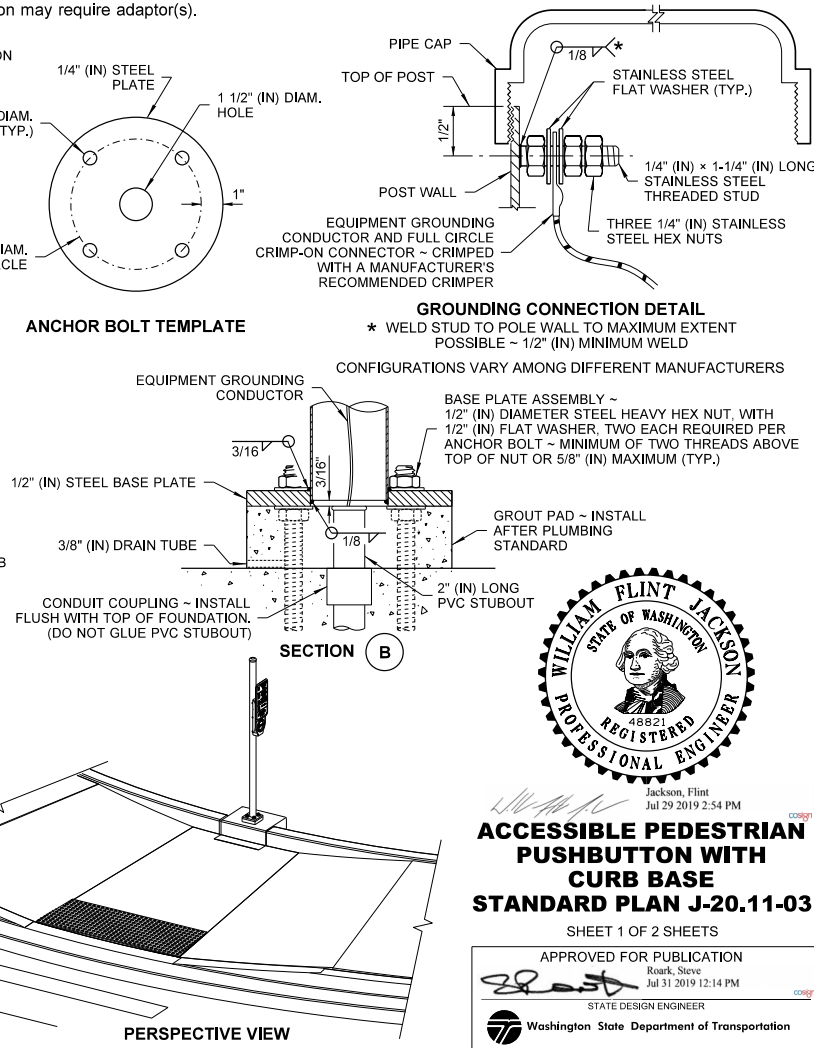
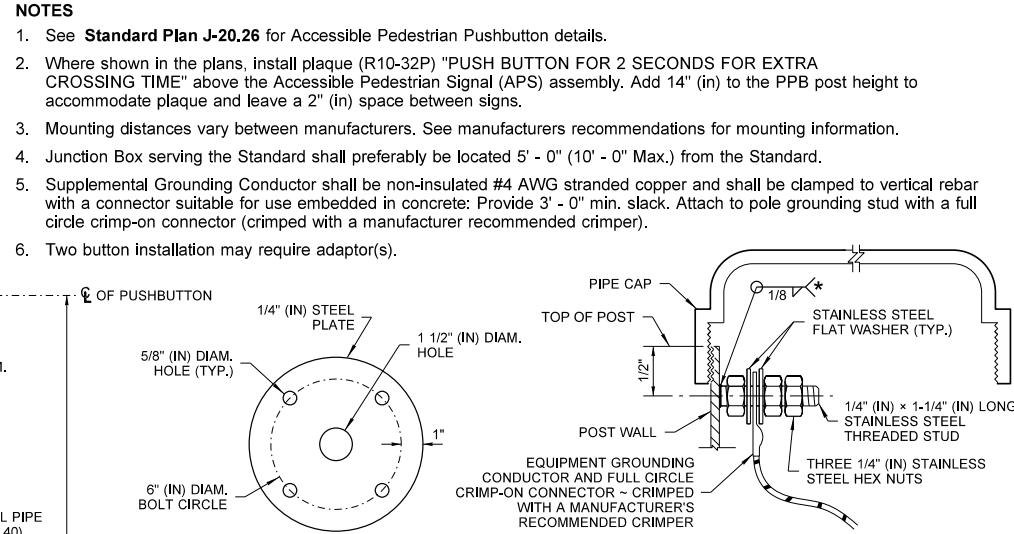
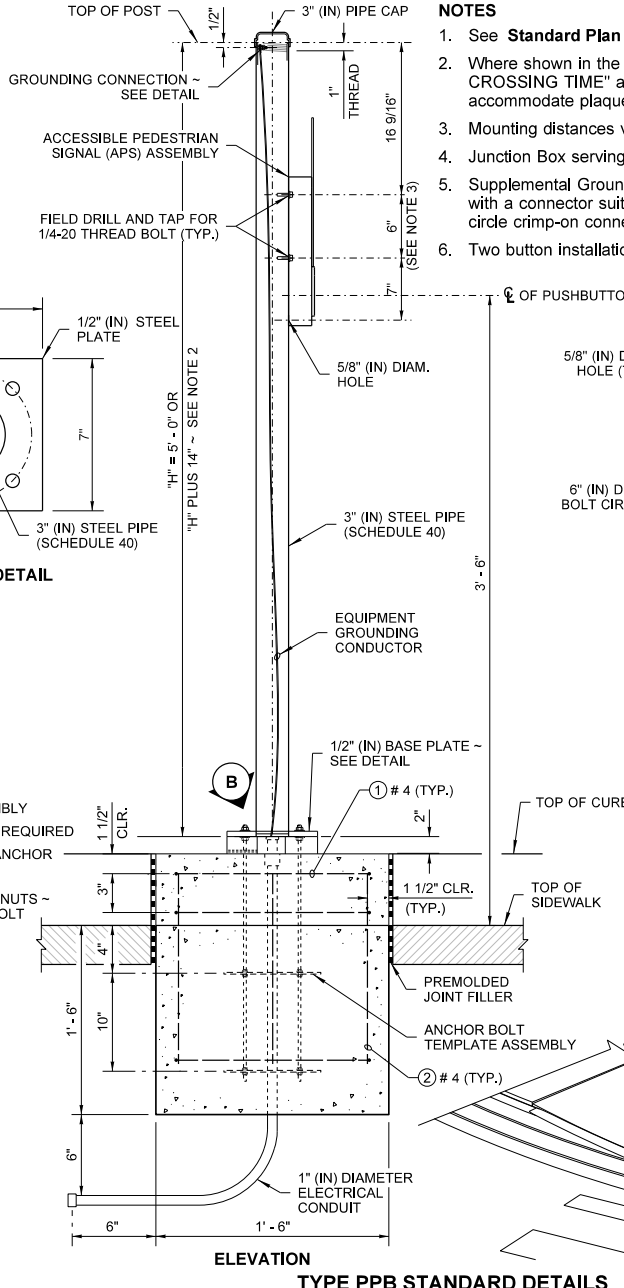
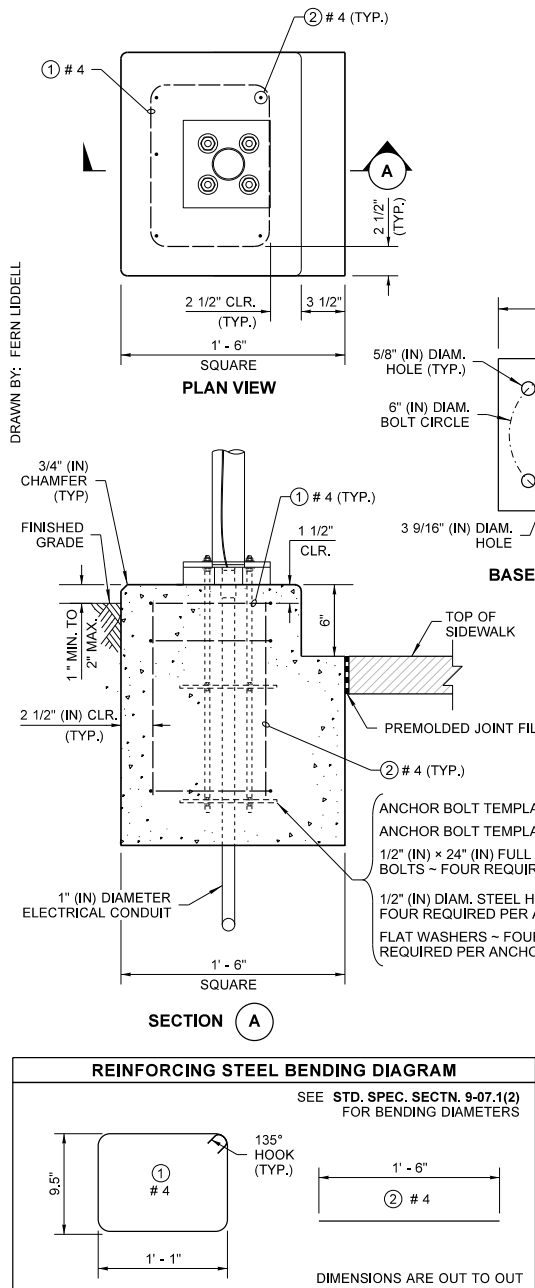
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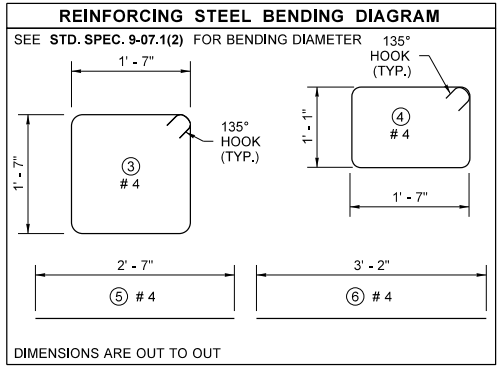
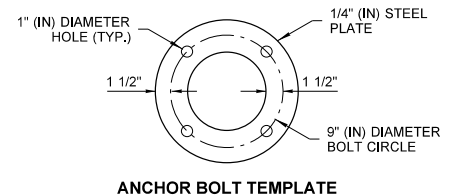
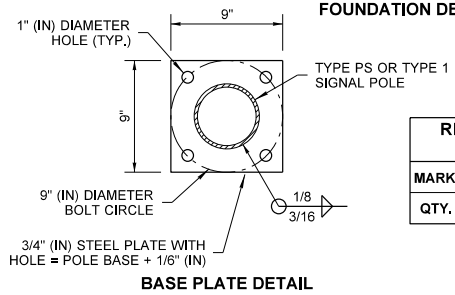
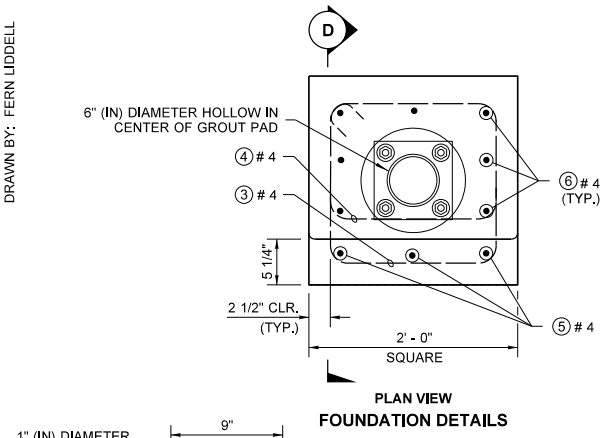
Pasco Bakotich III 09-20-07

STATE DESIGN ENGINEER DATE

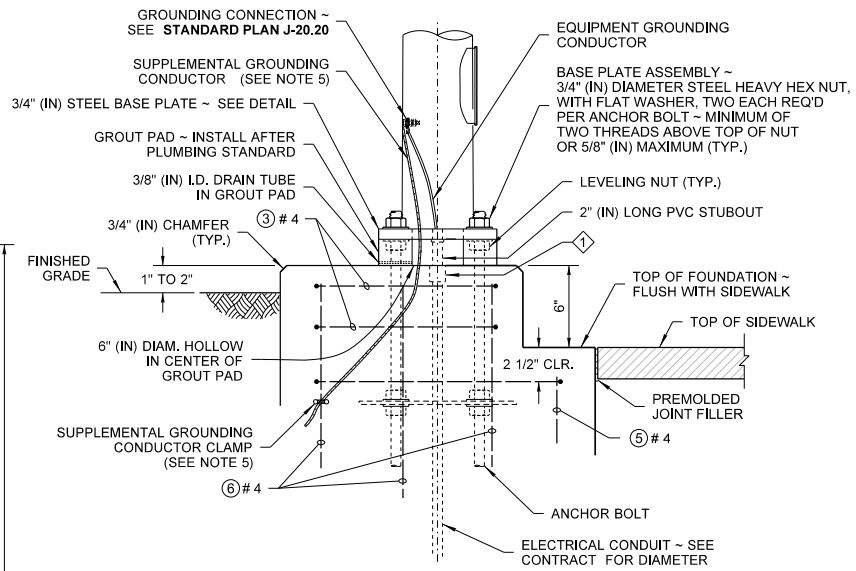
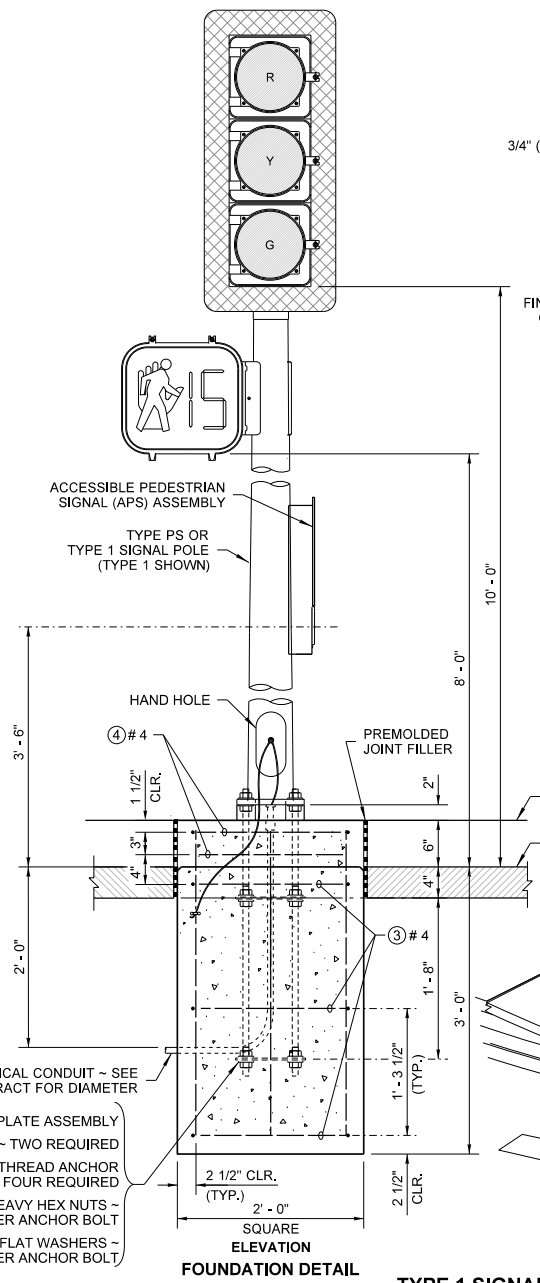


DRAWN BY: FERN LIDDELL

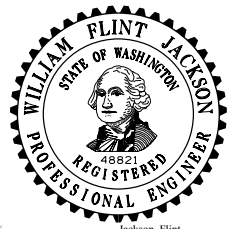
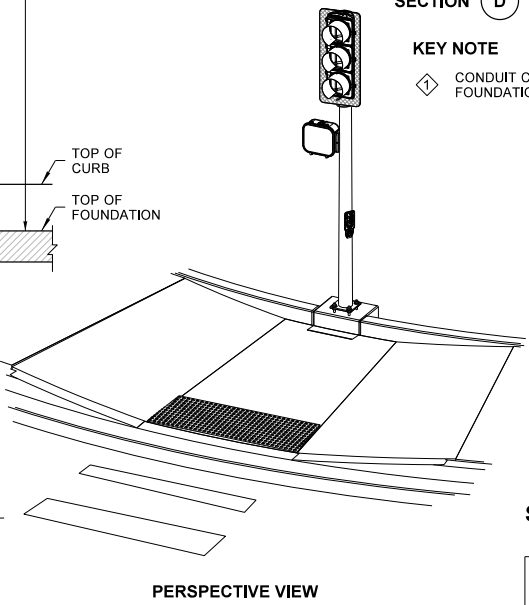




REINFORCING STEEL QUANTITIES LIST				
MARK	③	④	⑤	⑥
QTY.	3	2	3	7

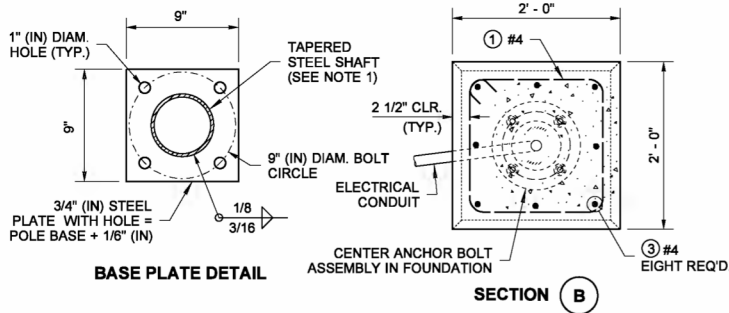
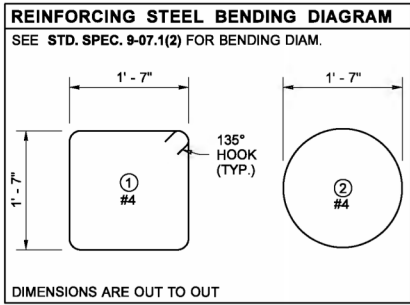


KEY NOTE
 ⚡ CONDUIT COUPLING ~ INSTALL FLUSH WITH TOP OF FOUNDATION, (DO NOT GLUE PVC STUBOUT)



Jackson, Flint
 Jul 29 2019 2:54 PM
**ACCESSIBLE PEDESTRIAN
 PUSHBUTTON WITH
 CURB BASE**
STANDARD PLAN J-20.11-03
 SHEET 2 OF 2 SHEETS

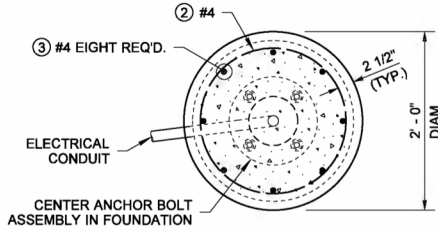
APPROVED FOR PUBLICATION
 Roark, Steve
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 STATE DESIGN ENGINEER
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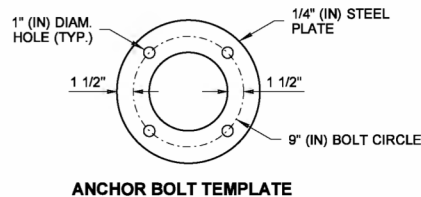
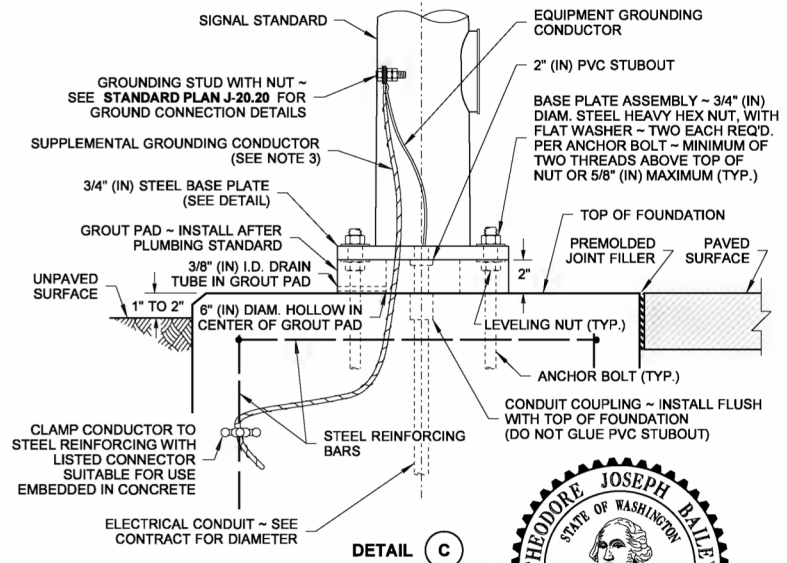
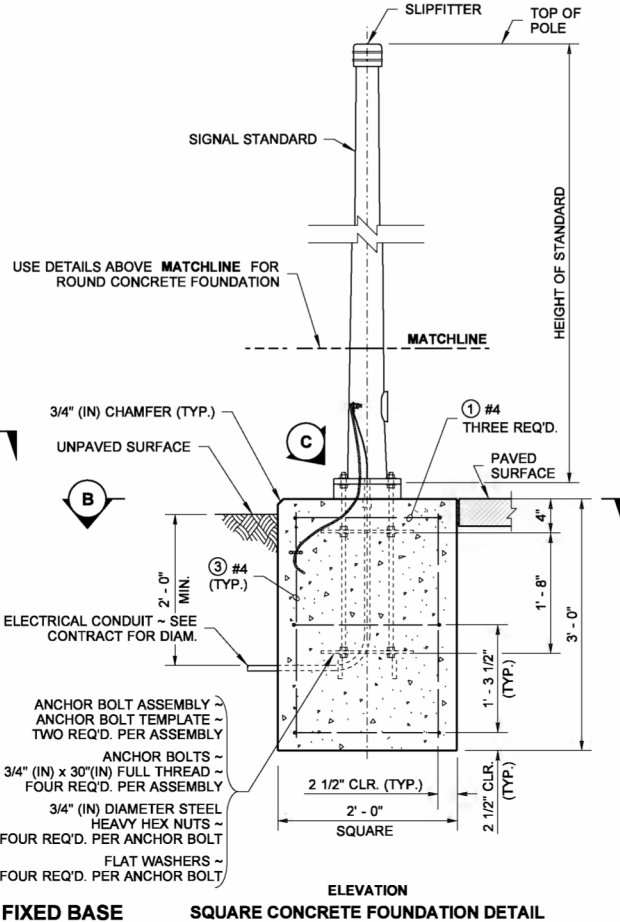
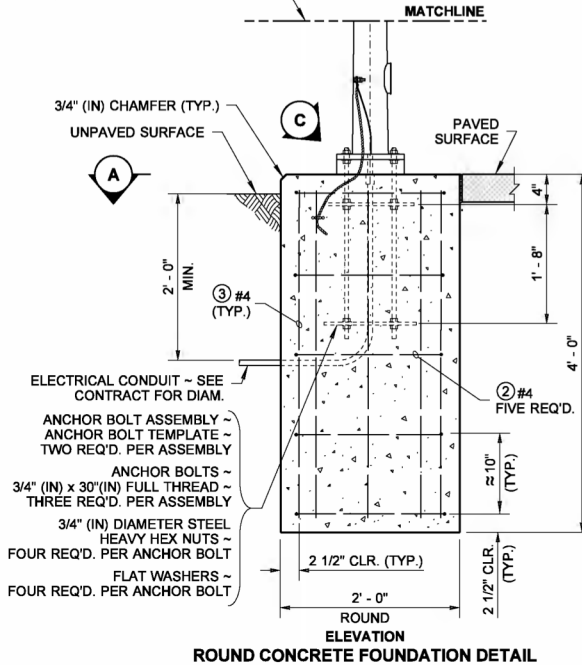
NOTES

1. Clamping bolts shall be tightened to 50 ft-lbs max. torque. After state inspection, burr threads to prevent nut rotation. DO NOT OVERTIGHTEN.
2. The final height of the Anchor Bolts shall be below the top of the slip plate assembly to ensure proper function of the slip base.
3. Supplemental grounding conductor shall be non-insulated #4 AWG stranded copper and shall be clamped to vertical rebar with a connector suitable for use embedded in concrete. Provide 3' - 0" min. slack. Attach to pole grounding stud with a full circle crimp-on connector (crimped with a manufacturer recommended crimper).
4. Junction box serving the Standard shall preferably be located 5' - 0" (10' - 0" Max.) from the Standard.
5. Provide cable tie at wiring entering the junction box (for slip base installations only) ~ See **Detail A, Standard Plan J-28.70**.
6. Keeper Plate shall not extend beyond the edges of the pole base plate.

DRAWN BY: FERN LIDDELL

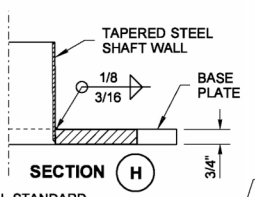
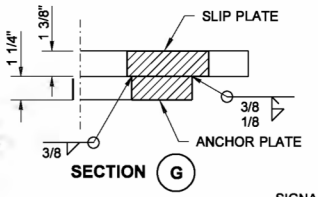
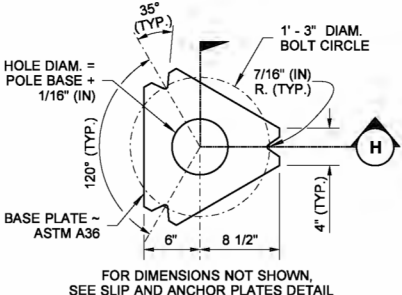
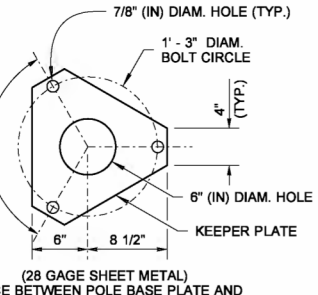
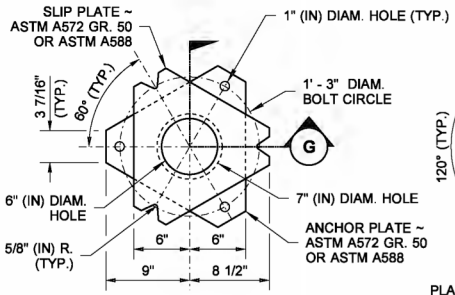


SEE DETAILS ABOVE MATCHLINE FOR SQUARE CONCRETE FOUNDATION



Barley, Ted
Jun 26 2014 4:29 PM
TYPE PS, TYPE 1, RM & FB SIGNAL STANDARD FOUNDATION DETAILS
STANDARD PLAN J-21.10-04
SHEET 1 OF 2 SHEETS

APPROVED FOR PUBLICATION
Rene B. Balthasar
STATE DESIGN ENGINEER
Washington State Department of Transportation

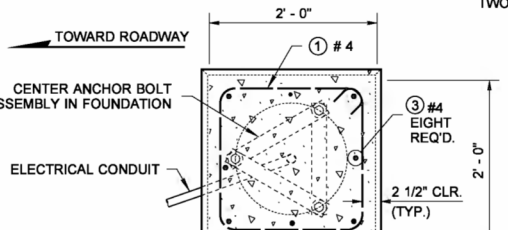
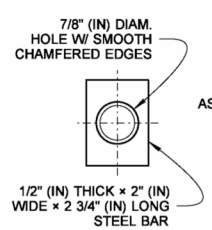
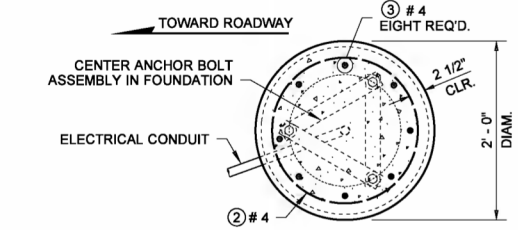


SLIP AND ANCHOR PLATES DETAIL

KEEPER PLATE DETAIL

BASE PLATE DETAIL

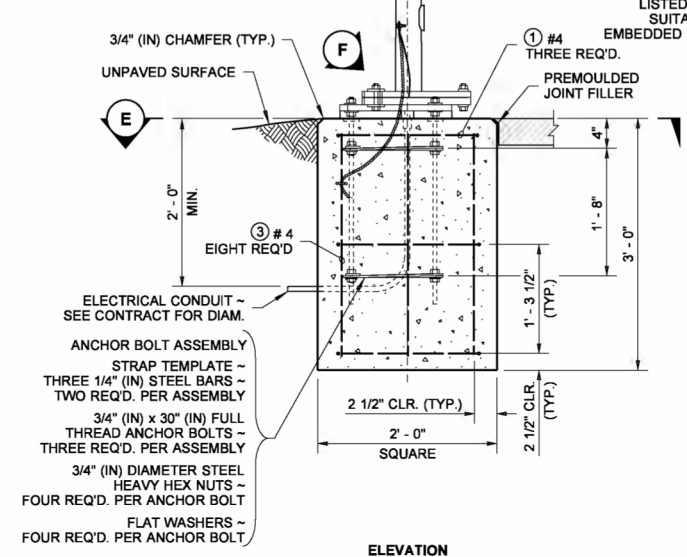
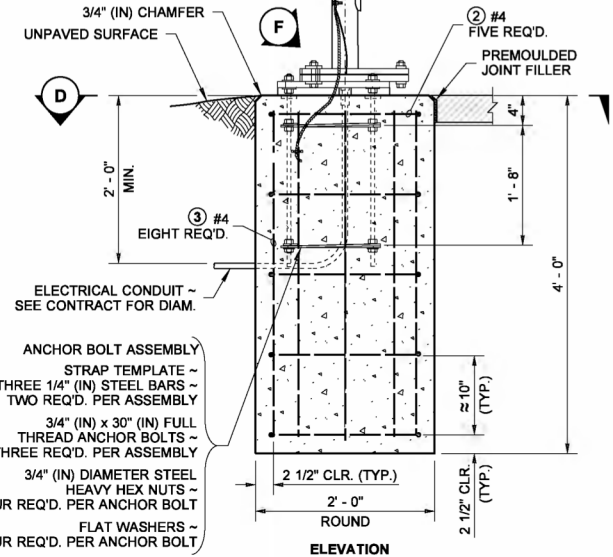
DRAWN BY: FERN LIIDELL



SECTION D

PLATE WASHER DETAIL

SECTION E



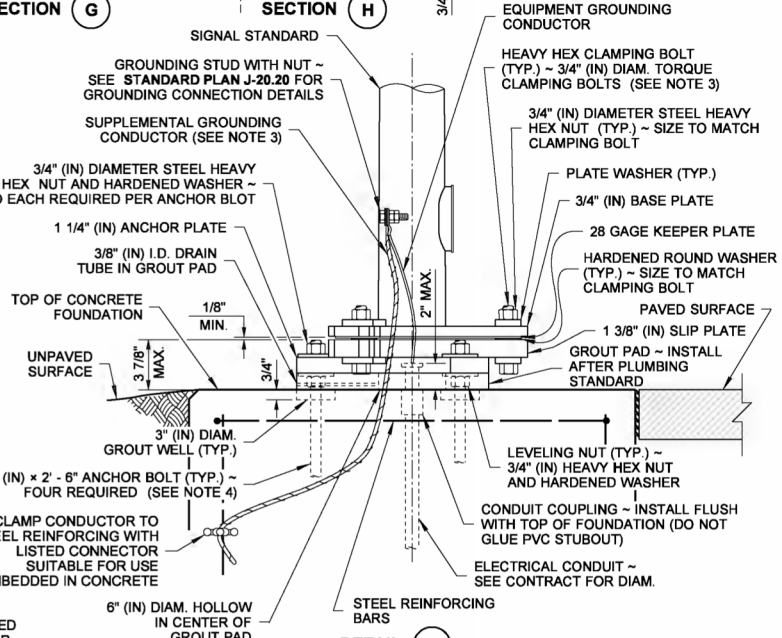
ELEVATION

ROUND CONCRETE FOUNDATION DETAIL

ELEVATION

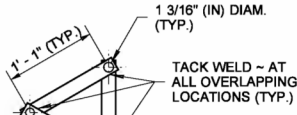
SLIP BASE

SQUARE CONCRETE FOUNDATION DETAIL

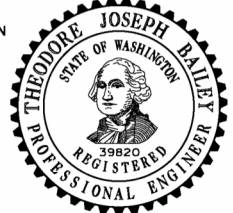


DETAIL F

SQUARE FOUNDATION SHOWN



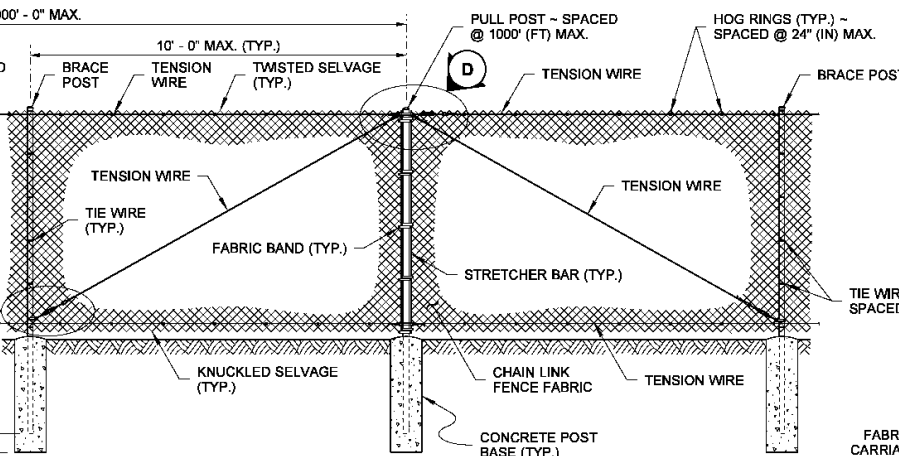
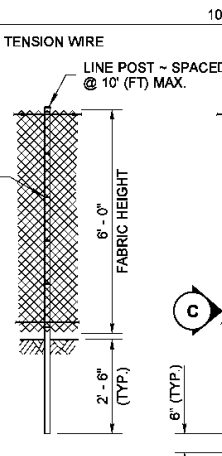
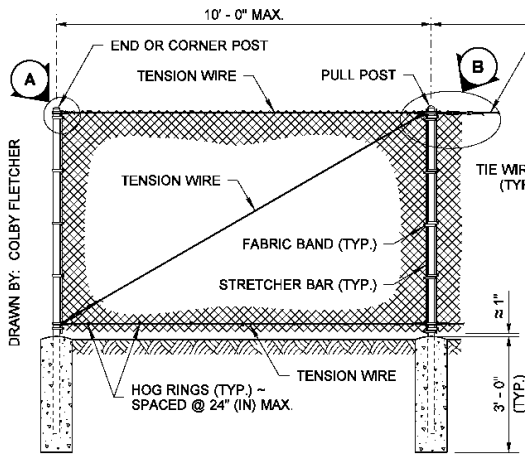
STRAP TEMPLATE DETAIL



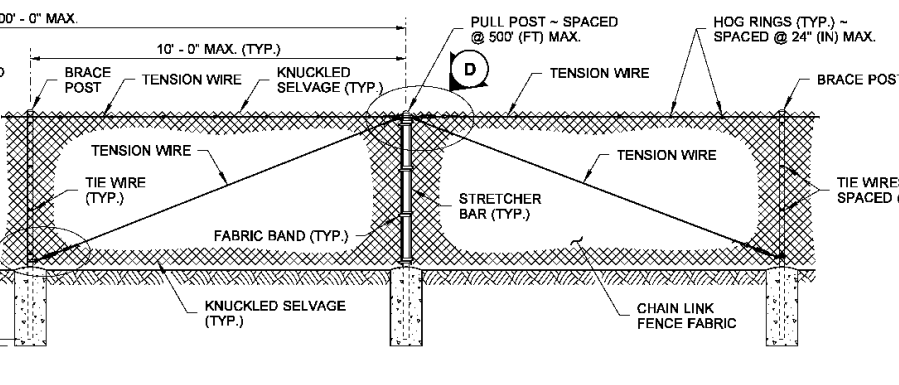
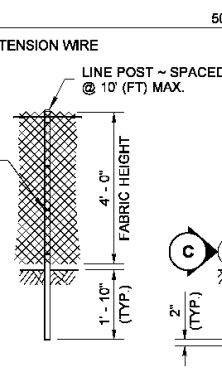
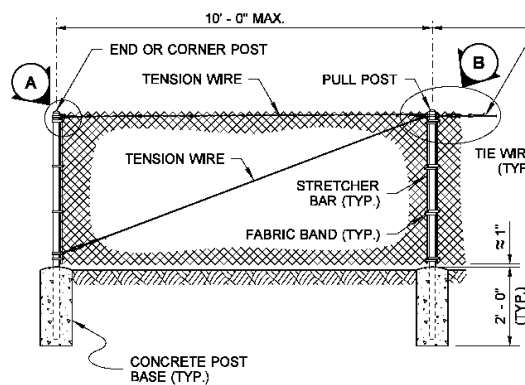
Barley, Ted
Jun 26 2014 4:29 PM
TYPE PS, TYPE 1, RM & FB SIGNAL STANDARD FOUNDATION DETAILS
STANDARD PLAN J-21.10-04

SHEET 2 OF 2 SHEETS

APPROVED FOR PUBLICATION
Washington State Department of Transportation



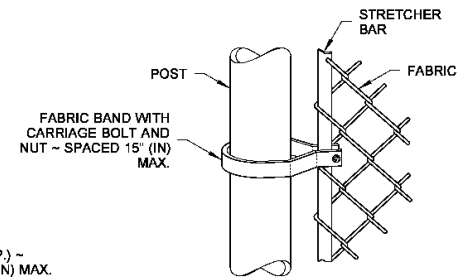
TYPE 3



TYPE 4

NOTES

1. All concrete post bases shall be 10" (in) minimum diameter.
2. Along the top and bottom, using Hog Rings, fasten the Chain Link Fence Fabric to the Tension Wire within the limits of the first full fabric weave.
3. Details are illustrative and shall not limit hardware design or post selection of any particular fence type.
4. Fencing shall be used for security and boundary delineation only.



METHOD OF FASTENING STRETCHER BAR TO POST



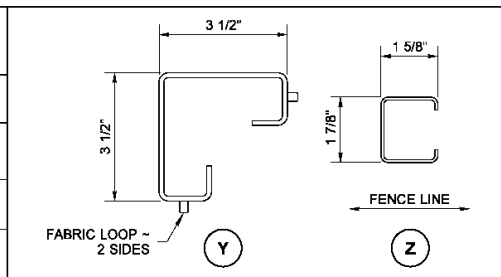
Barry, Ed
Jul 14 2015 11:14 AM
CHAIN LINK FENCE TYPES 3 AND 4

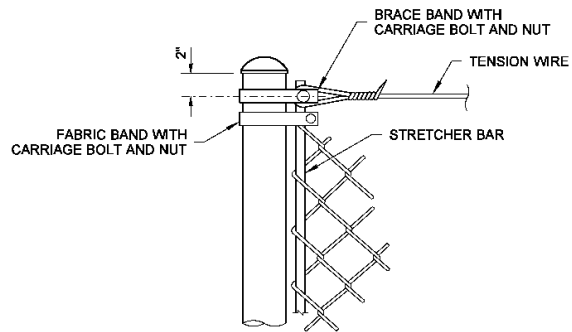
STANDARD PLAN L-20.10-03

SHEET 1 OF 2 SHEETS

APPROVED FOR PUBLICATION
Carpenter, Jeff
Jul 14 2015 11:24 AM
STATS DESIGN ENGINEER
Washington State Department of Transportation

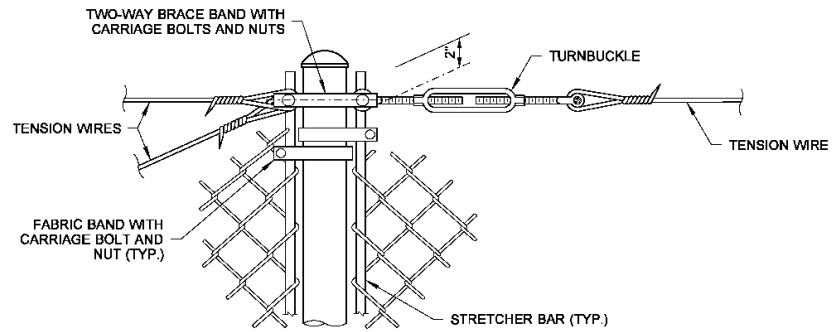
POST AND RAIL SPECIFICATIONS			
POST	PIPE	ROLL FORMED	
	NOM. SIZE (SCH. 40) I.D.	SECTION	WEIGHT (lb/ft)
END, CORNER, OR PULL POST	2 1/2" DIAM.	Y	5.10
LINE OR BRACE POST	2" DIAM.	Z	1.85





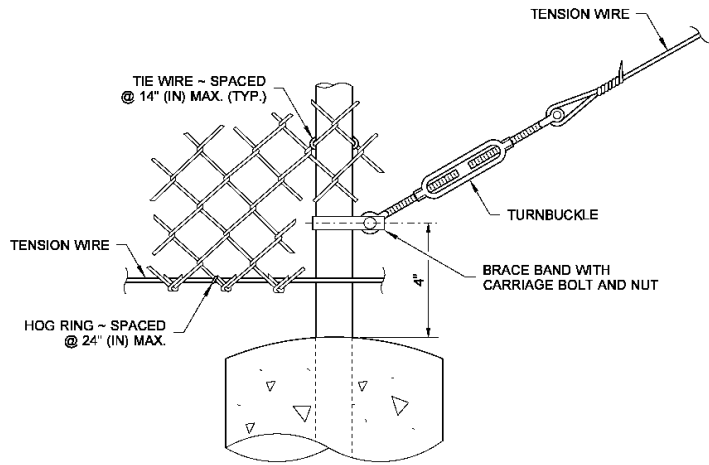
END OR CORNER POST

DETAIL A



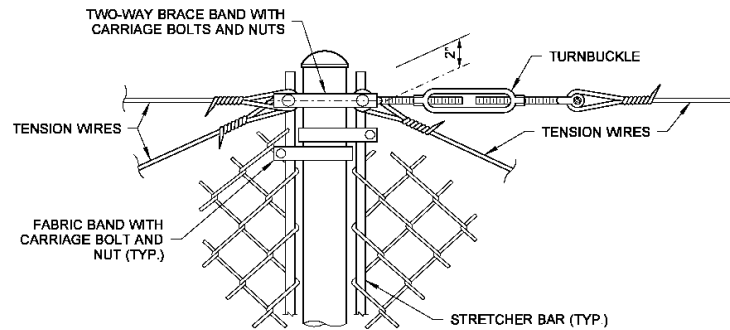
PULL POST (AT END OR CORNER)

DETAIL B



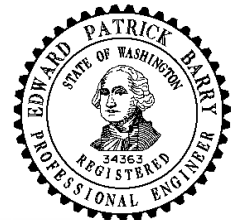
BRACE POST

DETAIL C



PULL POST (WITHIN RUN)

DETAIL D



Barry, Ed
 Jul 14 2015 11:14 AM
 CDSign

**CHAIN LINK FENCE
 TYPES 3 AND 4**

STANDARD PLAN L-20.10-03

SHEET 2 OF 2 SHEETS

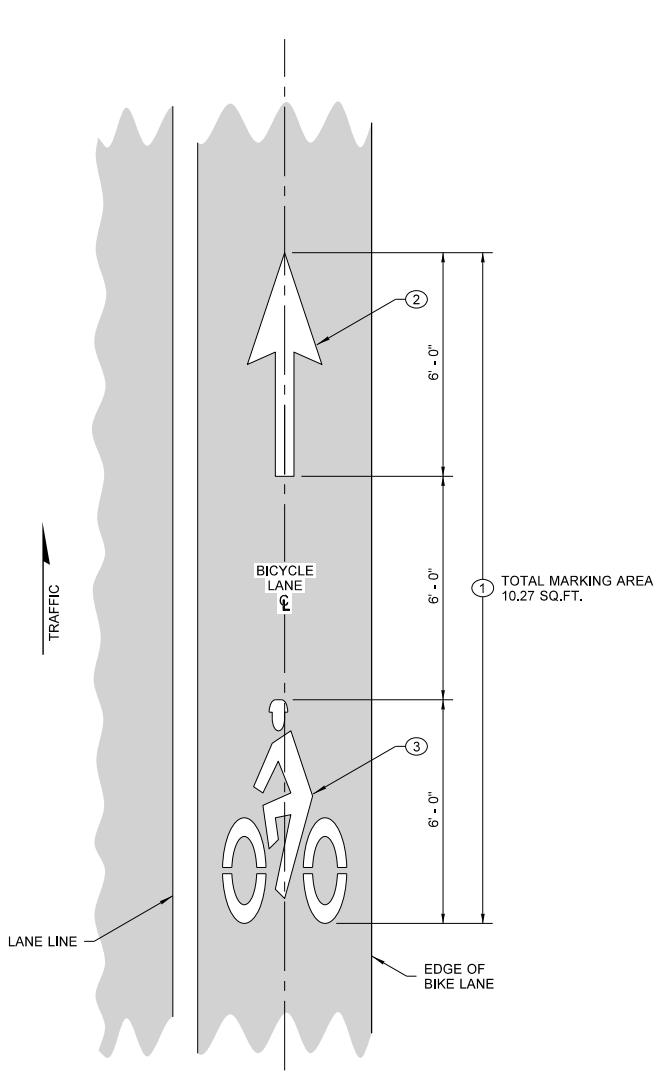
APPROVED FOR PUBLICATION

Carpenter, Jeff

Jul 14 2015 11:25 AM

STATE DESIGN ENGINEER

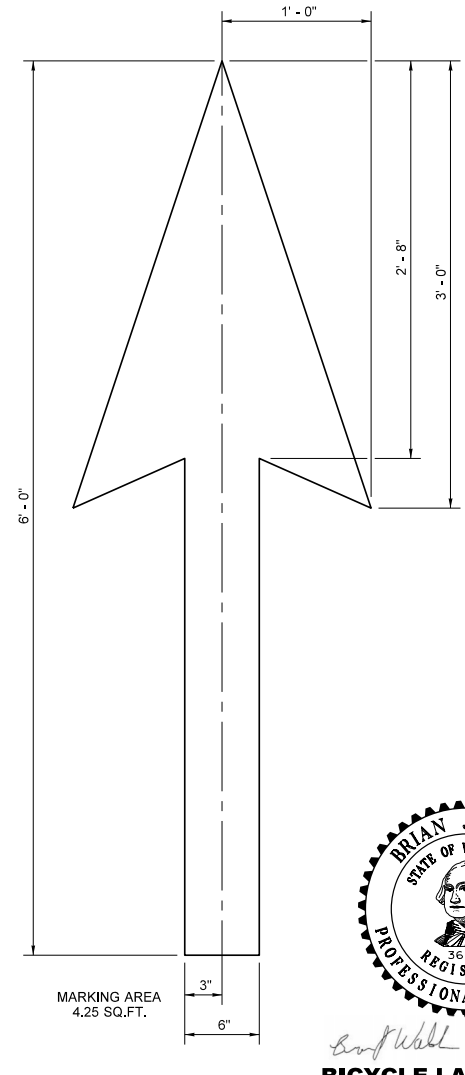
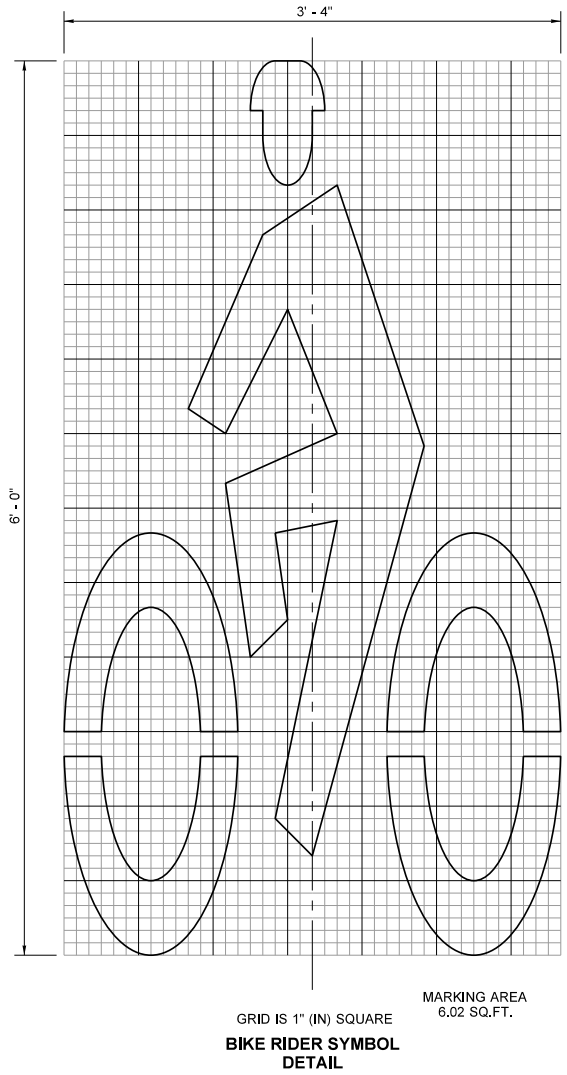




BICYCLE LANE SYMBOL LAYOUT

KEY NOTES

- ① Bid Item "Bicycle Lane Symbol" includes Bike Lane Arrow and Bike Rider Symbol.
- ② 2' (ft) x 6' (ft) White Bike Lane Arrow.
- ③ Bike Rider Symbol.



**BIKE LANE ARROW
DETAIL**



Walsh, Brian
Jun 24 2014 1:53 PM
CS&G

BICYCLE LANE SYMBOL LAYOUT

STANDARD PLAN M-9.50-02

SHEET 1 OF 1 SHEET

APPROVED FOR PUBLICATION

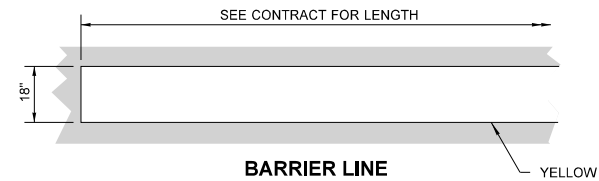
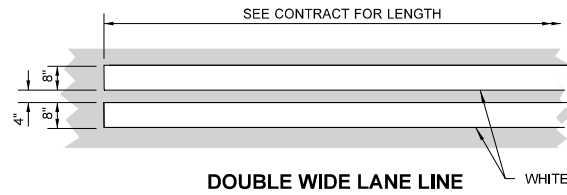
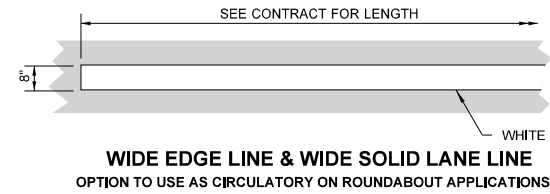
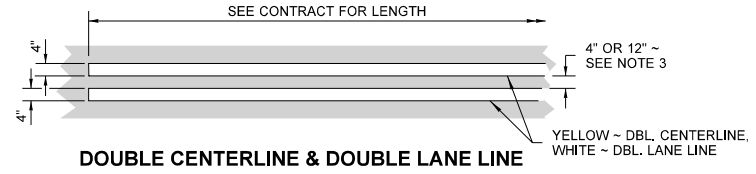
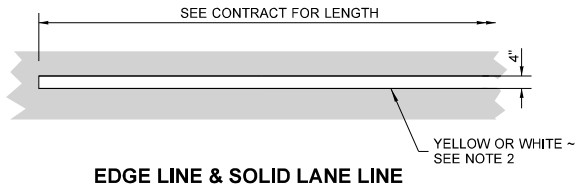
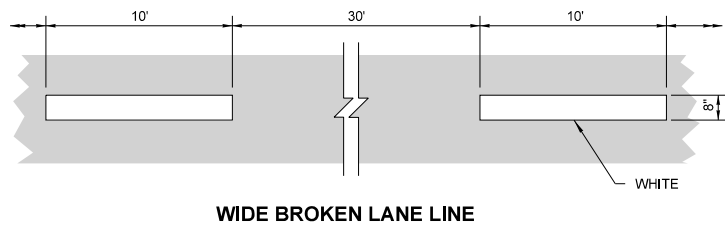
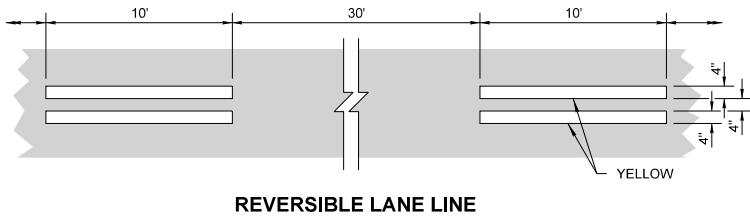
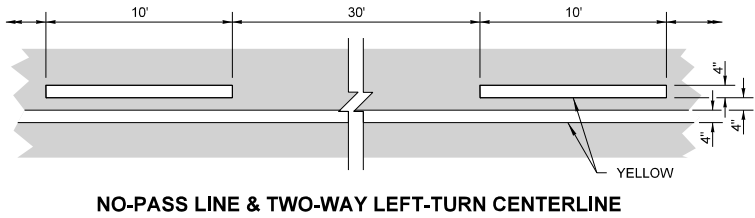
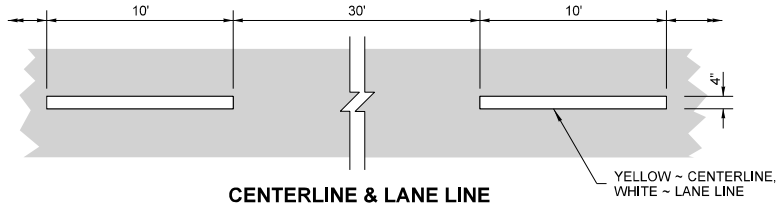
Rene B. Peltier
Bakotech, Pasco
Jun 24 2014 4:42 PM

STATE DESIGN ENGINEER
Washington State Department of Transportation

GENERAL NOTE

See Contract for location and material requirements.

DRAWN BY: FERN LIDDELL



NOTES

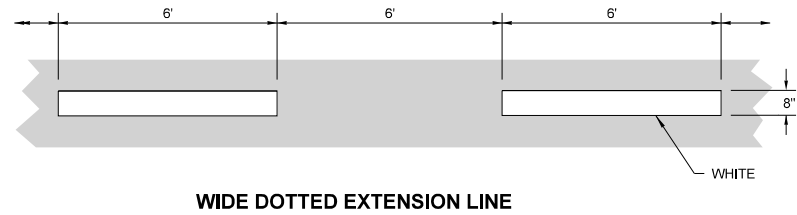
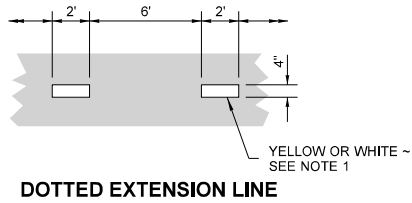
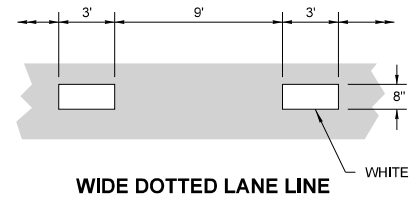
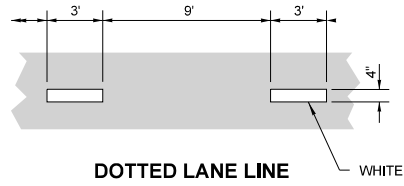
1. Dotted Extension Line shall be the same color as the line it is extending.
2. Edge Line shall be white on the right edge of traveled way, and yellow on the left edge of traveled way (on one-way roadways). Solid Lane Line shall be white.
3. The distance between the lines of the Double Centerline shall be 12" everywhere, except 4" for left-turn channelization and narrow roadways with lane widths of 10 feet or less. Local Agencies (on non-state routes) may specify a 4" distance for all locations.
The distance between the lines of the Double Lane Line shall be 4".



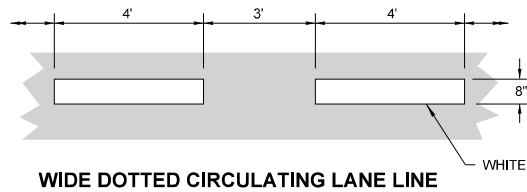
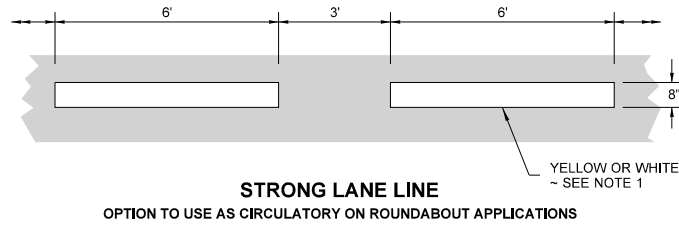
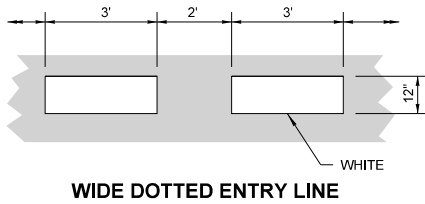
Aug 1, 2022

LONGITUDINAL MARKING PATTERNS
STANDARD PLAN M-20.10-04
SHEET 1 OF 4 SHEETS

APPROVED FOR PUBLICATION
 Mark Gaines (Aug 2, 2022 10:17 PDT) Aug 2, 2022
 STATE DESIGN ENGINEER
 Washington State Department of Transportation



ROUNDAOBOUT SPECIFIC LINES



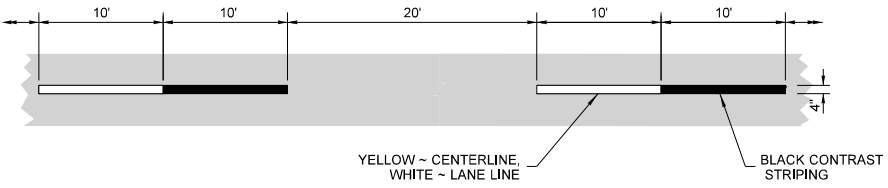
Aug 1, 2022

LONGITUDINAL MARKING PATTERNS
STANDARD PLAN M-20.10-04
 SHEET 2 OF 4 SHEETS

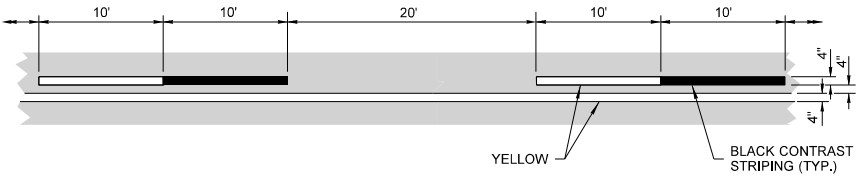
APPROVED FOR PUBLICATION
 Mark Gainer (Aug 2, 2022 10:17 PDT) Aug 2, 2022
 STATE DESIGN ENGINEER
 Washington State Department of Transportation

DRAWN BY: FERN LIDDELL

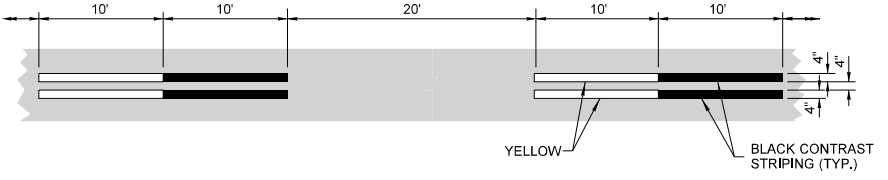
DIRECTION OF TRAFFIC
(TYPICAL)



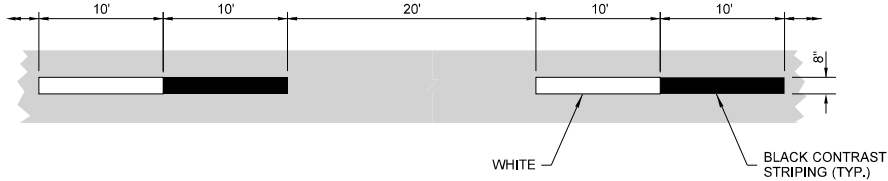
CENTERLINE & LANE LINE



NO-PASS LINE & TWO-WAY LEFT-TURN CENTERLINE



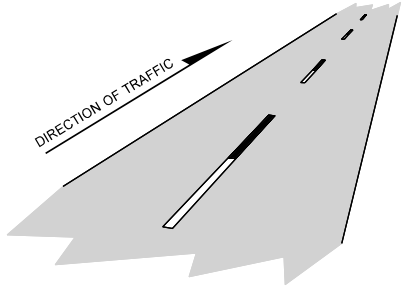
REVERSIBLE LANE LINE



WIDE BROKEN LANE LINE

NOTE

- 1. Dotted Extension Line shall be the same color as the line it is extending.



ISOMETRIC VIEW



Aug 1, 2022

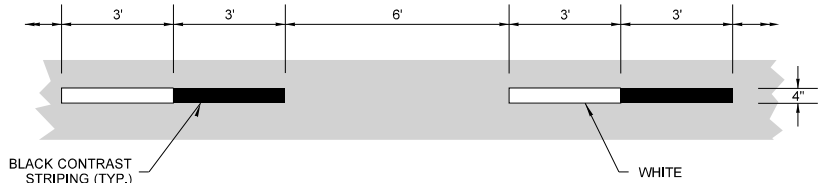
LONGITUDINAL MARKING PATTERNS
STANDARD PLAN M-20.10-04

SHEET 3 OF 4 SHEETS

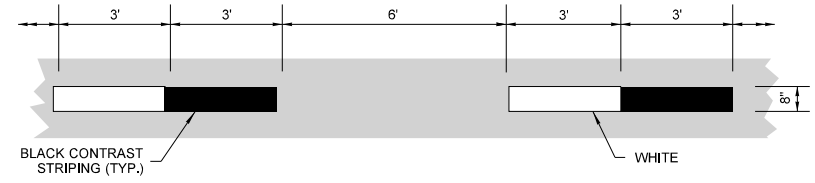
APPROVED FOR PUBLICATION
Mark Gaines
 Mark Gaines (Aug 2, 2022 10:17 PDT) Aug 2, 2022
 STATE DESIGN ENGINEER
 Washington State Department of Transportation

DRAWN BY: FERN LIDDELL

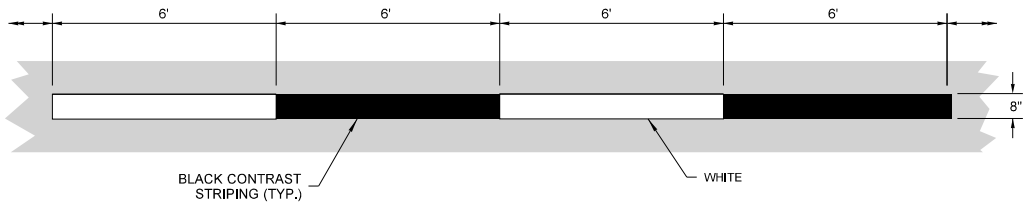
DIRECTION OF TRAFFIC
(TYPICAL) →



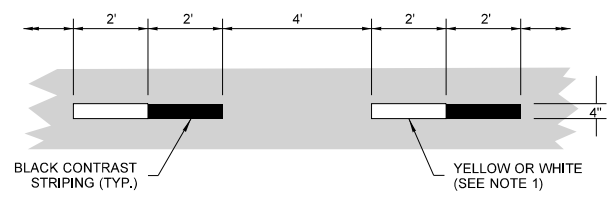
DOTTED LANE LINE



WIDE DOTTED LANE LINE

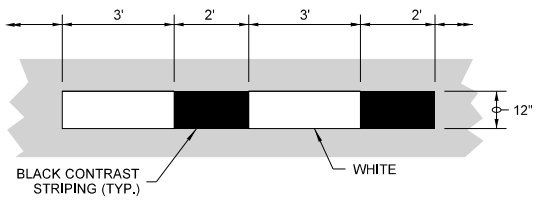


WIDE DOTTED EXTENSION LINE

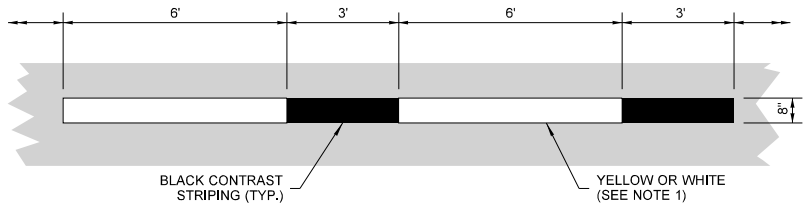


DOTTED EXTENSION LINE

ROUNDBOUNT SPECIFIC LINES

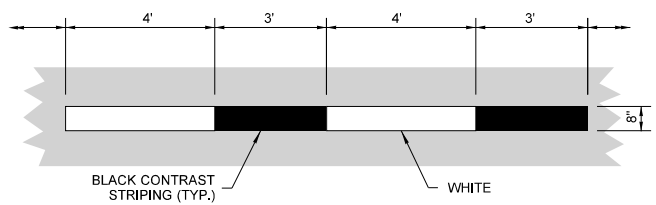


WIDE DOTTED ENTRY LINE



STRONG LANE LINE

OPTION TO USE AS CIRCULATORY ON ROUNDABOUT APPLICATIONS



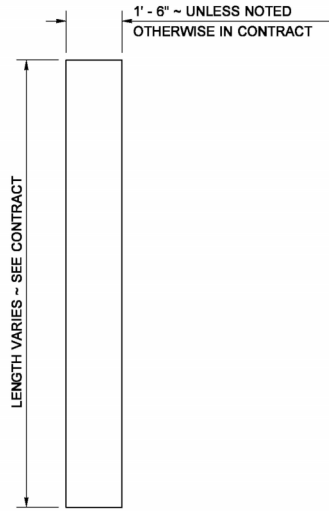
WIDE DOTTED CIRCULATING LANE LINE



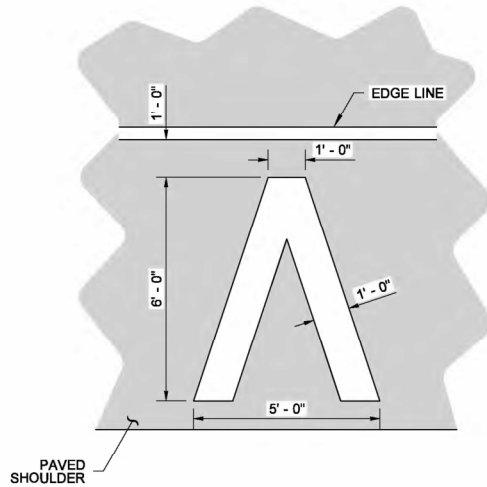
Aug 1, 2022

LONGITUDINAL MARKING PATTERNS
STANDARD PLAN M-20.10-04
 SHEET 4 OF 4 SHEETS

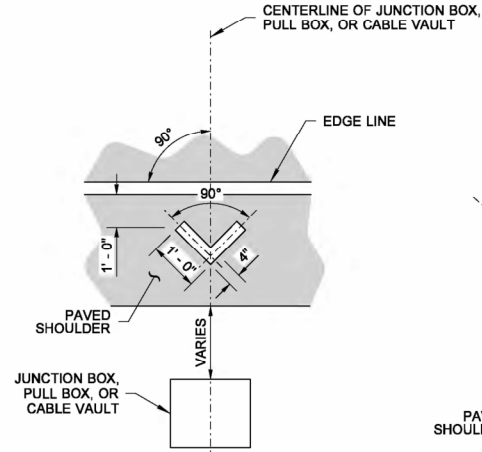
APPROVED FOR PUBLICATION
 Mark Gaines (Aug 2, 2022 10:17 PDT) Aug 2, 2022
 STATE DESIGN ENGINEER
 Washington State Department of Transportation



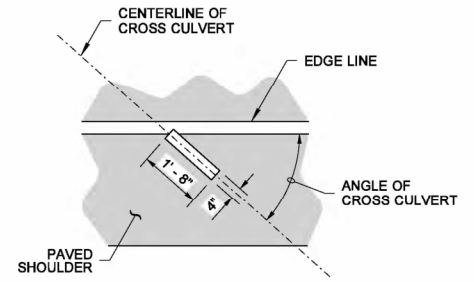
STOP LINE



MARKING AREA = 11.73 SQ.FT.
HALF-MILE MARKER



MARKING AREA = 0.56 SQ. FT.
JUNCTION BOX, PULL BOX, OR CABLE VAULT MARKINGS

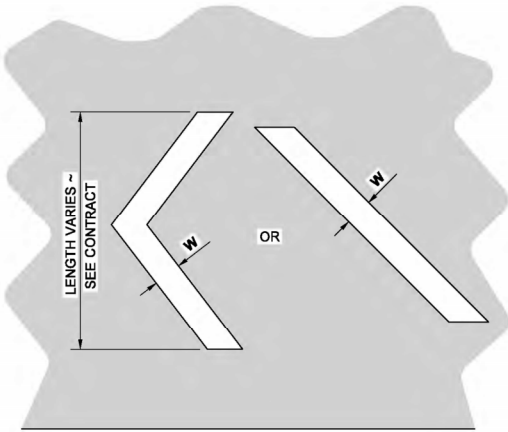


MARKING AREA = 0.56 SQ.FT.
CROSS CULVERT

DRAINAGE MARKING

NOTE

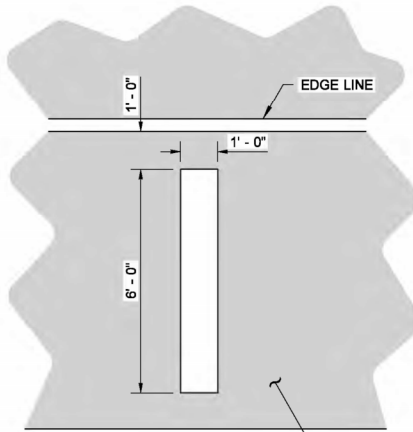
1. If Rumble Strips are present, install marking outside of the Rumble Strip.



WHITE OR YELLOW ~ SEE CONTRACT
CHEVRON OR DIAGONAL

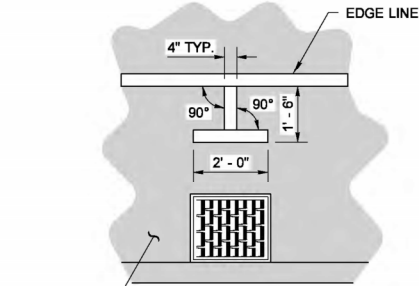
CROSSHATCH MARKING

W = 8" (IN) FOR POSTED SPEED LIMIT OF 40 MPH OR LOWER
W = 12" (IN) FOR POSTED SPEED LIMIT OF 45 MPH OR HIGHER



MARKING AREA = 6.00 SQ.FT.
FULL MILE MARKER

AERIAL SURVEILLANCE MARKERS



MARKING AREA = 1.06 SQ.FT.
DRAINAGE STRUCTURE INLET

DRAINAGE MARKING



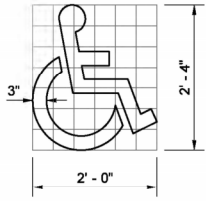
Walsh, Brian
Jun 24 2014 2:35 PM

**SYMBOL MARKINGS
MISCELLANEOUS**

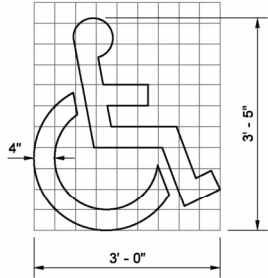
STANDARD PLAN M-24.60-04

SHEET 1 OF 2 SHEETS

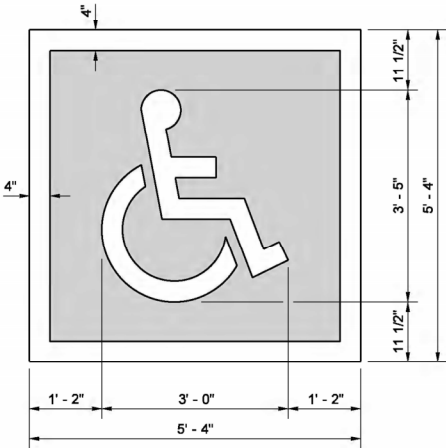
APPROVED FOR PUBLICATION
Bakotch, Pasco
Jun 24 2014 4:43 PM
STATE DESIGN ENGINEER
Washington State Department of Transportation



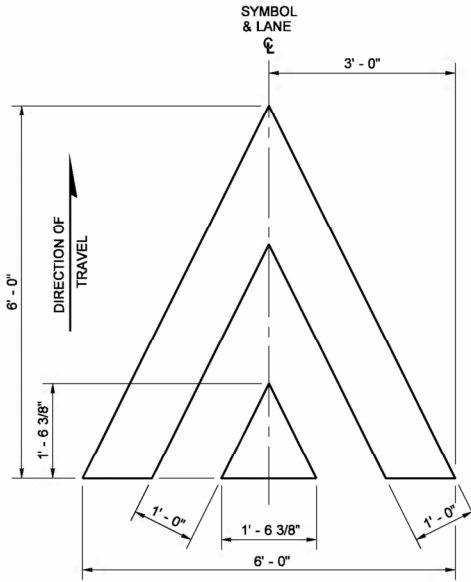
GRID IS 4" (IN) SQUARE MARKING AREA = 1.41 SQ.FT.
ACCESS PARKING SPACE SYMBOL (MINIMUM)



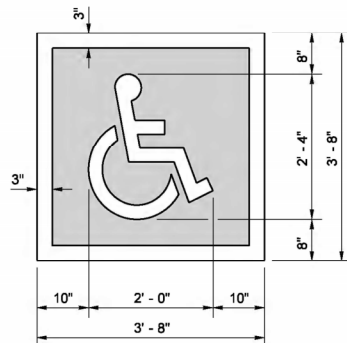
GRID IS 4" (IN) SQUARE MARKING AREA = 3.09 SQ.FT.
ACCESS PARKING SPACE SYMBOL (STANDARD)



TOTAL MARKING AREA = 28.44 SQ.FT.
 WHITE = 9.76 SQ.FT. BLUE = 18.69 SQ.FT.
ACCESS PARKING SPACE SYMBOL (STANDARD)
 WITH BLUE BACKGROUND AND WHITE BORDER
 (REQUIRED FOR CEMENT CONCRETE SURFACES)



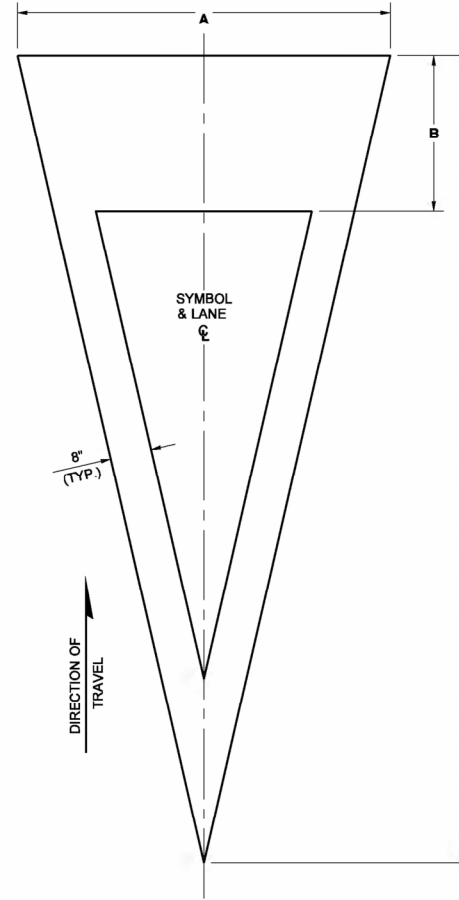
MARKING AREA = 12.08 SQ.FT.
SPEED BUMP SYMBOL



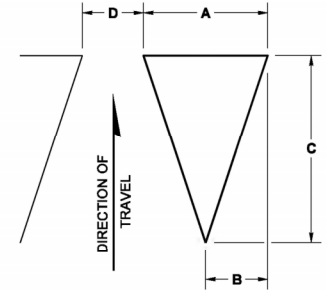
TOTAL MARKING AREA = 13.44 SQ.FT.
 WHITE = 4.82 SQ.FT. BLUE = 8.62 SQ.FT.
ACCESS PARKING SPACE SYMBOL (MINIMUM)
 WITH BLUE BACKGROUND AND WHITE BORDER
 (REQUIRED FOR CEMENT CONCRETE SURFACES)

SYMBOL MARKING		A	B	C	D	USE	MARKING AREA
YIELD AHEAD SYMBOL	TYPE 1	6' - 0"	2' - 6"	13' - 0"	N/A	LESS THAN 45 MPH	25.90 SQ.FT.
	TYPE 2	6' - 0"	3' - 0"	20' - 0"	N/A	45 MPH OR GREATER	36.54 SQ.FT.
YIELD LINE SYMBOL	TYPE 1	1' - 0"	6"	1' - 6"	6"	LESS THAN 45 MPH	0.75 SQ.FT.
	TYPE 2	2' - 0"	1' - 0"	3' - 0"	1' - 0"	45 MPH OR GREATER	3.00 SQ.FT.
	TYPE 2	2' - 0"	1' - 0"	3' - 0"	1' - 0"	ROUNDBOUT ENTRY ★	3.00 SQ.FT.

★ MINIMUM OF 4 IN LANE



YIELD AHEAD SYMBOL



YIELD LINE SYMBOL
 (MULTIPLE SYMBOLS REQUIRED FOR TRANSVERSE YIELD LINE - SEE CONTRACT)



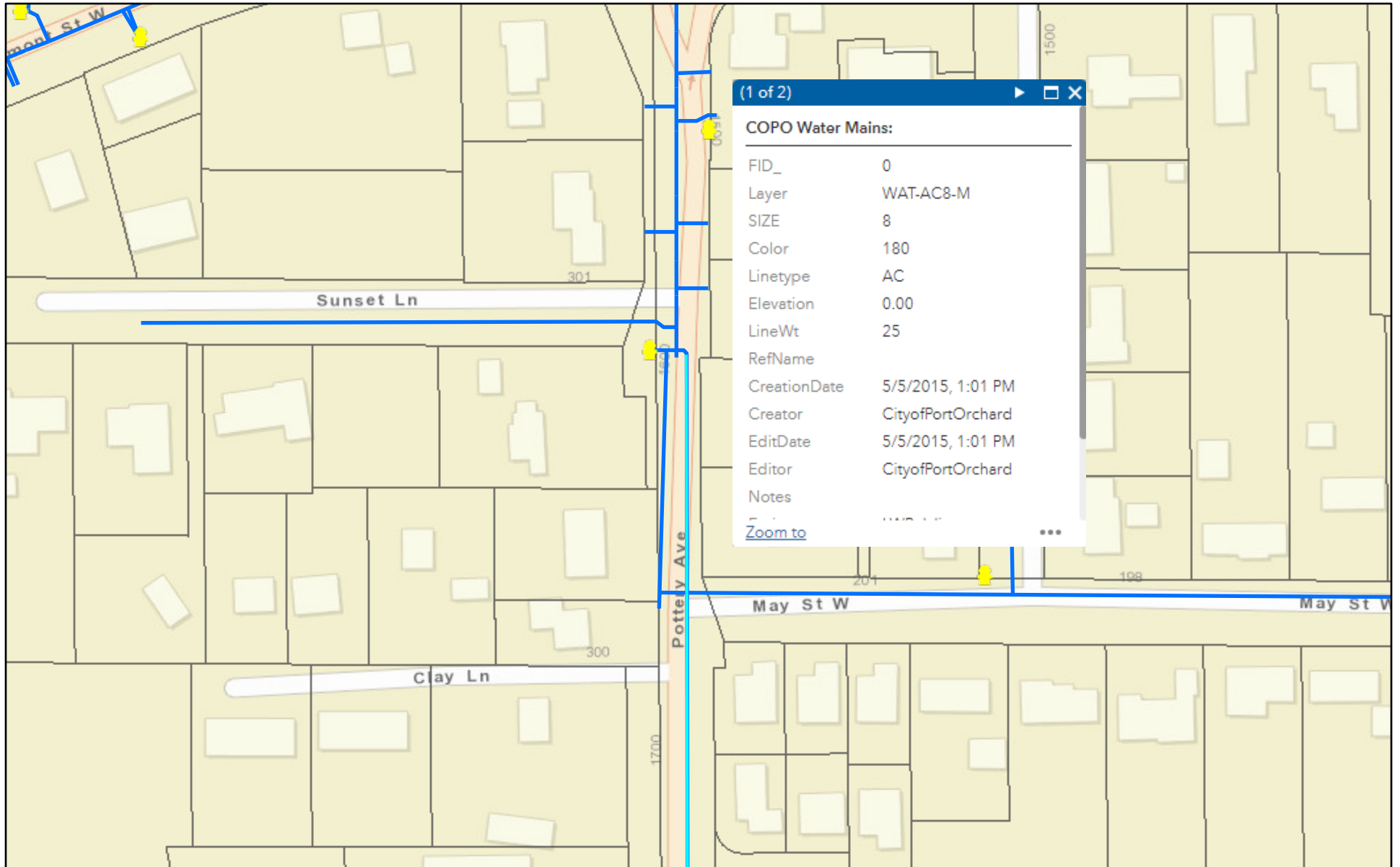
Walsh, Brian
 Jun 24 2014 2:37 PM

SYMBOL MARKINGS MISCELLANEOUS
STANDARD PLAN M-24.60-04
 SHEET 2 OF 2 SHEETS

APPROVED FOR PUBLICATION
 Bakotch, Pasco
 Jun 24 2014 4:43 PM
 STATE DESIGN ENGINEER
 Washington State Department of Transportation

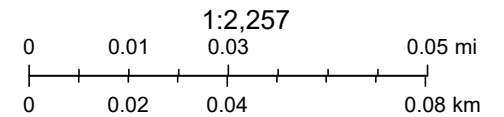
APPENDIX C
ASBESTOS GFI

Pottery Asbestos GFI



11/30/2023, 10:26:44 AM

Fire_Hydrants yes Water_Mains ArcGISDB1.DBO.Parcel_Nov23



County of Kitsap, Bureau of Land Management, Esri, HERE, Garmin, INCREMENT P, NGA, USGS

APPENDIX D
SUMMARY OF QUANTITIES

**Summary of Quantities
Pottery Ave Non-Motorized Improvements
City of Port Orchard
October 2023**

Item No.	Spec. Section	Total Quantity	Unit	Item Description	Complete Streets Grant - Sidewalk/Channelization	Sewer General Fund - Sewer Force Main	Water General Fund - Water Main Replacement	Citywide Asphalt Fund - Pavement Repair
A-1	1-09.7	1	LS	Mobilization	LS			
A-2, B-1	1-04.4 SP	25000	CALC	Minor Changes	10000	5000	5000	5000
A-3	1-05.18 SP	1	LS	Record Drawings (Minimum Bid \$2,000)	LS			
A-4	1-07.15	1	LS	SPCC Plan	LS			
A-5, B-2	1-10.4 SP	1	LS	Project Temporary Traffic Control	LS	LS	LS	LS
A-6	2-01	0.4	AC	Clearing and Grubbing	0.4			
B-3	2-02 SP	1	LS	Removal and Disposal of Asbestos Material			LS	
B-4	2-02 SP	1	LS	Removal of Structures and Obstructions			LS	
A-7, B-5	2-03	2080	CY	Roadway Excavation Incl. Haul	650	600	90	740
A-8, B-6	2-03	265	TON	Gravel Borrow Incl. Haul	10	255		
A-9	2-09	330	CY	Structure Excavation Class A Incl. Haul	330			
A-10	2-09	1	LS	Shoring or Extra Excavation Class A	LS			
A-11, B-7	2-09	1400	CY	Structure Excavation Class B Incl. Haul	120	1280		
A-12, B-8	2-09	14470	SF	Shoring or Extra Excavation Class B	880	12505	1085	
A-13, B-9	4-04	1610	TON	Crushed Surfacing Top Course	550	630	90	340
A-14	5-03	1	FA	Crack Sealing Bit Pvmt - FA				1
A-15, B-10	5-04 SP	2370	SY	Planing Bituminous Pavement	170	890	530	780
A-16, B-11	5-04 SP	2270	TON	HMA Cl. 1/2 In. PG 58H-22	280	630	140	1220
A-17	5-04 SP	5	TON	HMA for Approach Cl. 1/2 In. PG 58H-22	5			
A-18	7-04	160	LF	Testing Storm Sewer Pipe	160			
A-19	7-04 SP	160	LF	High-Density Polyethylene (HDPE) Pipe 12 In. Diam.	160			
A-20, B-12	7-05	5	EA	Adjust Manhole		1		4
A-21, B-13	7-05	13	EA	Adjust Catch Basin	9	1		3
A-22	7-05	5	EA	Catch Basin Type 1	5			
A-23	7-05	5	EA	Connection to Drainage Structure	5			
A-24	7-05 SP	3	EA	Locking Solid Metal Cover for Catch Basin	3			
B-14	7-05 SP	2	EA	Drop Manhole Connection		2		
B-15	7-05 SP	2	EA	Manhole 48 In. Diam. Type 1		2		
A-25	7-08	50	CY	Gravel Backfill for Pipe Zone Bedding	50			
B-16	7-09 SP	20	LF	Ductile Iron Pipe for Water Main 6 In. Diam.			20	
B-17	7-09 SP	240	LF	Ductile Iron Pipe for Water Main 8 In. Diam.			240	
B-18	7-09 SP	440	LF	Abandon Existing Water Main			440	
A-26, B-19	7-12 SP	14	EA	Adjust Valve Box		1	4	9
B-20	7-12 SP	1	EA	Tapping Sleeve and Valve Assembly 8 In.			1	
B-21	7-14	1	EA	Moving Existing Hydrant			1	
B-22	7-15 SP	8	EA	Service Connection 1 In. Diam.			8	
B-23	7-17 SP	1820	LF	Testing Sewer Pipe		1820		
B-24	7-17 SP	1510	LF	High-Density Polyethylene (HDPE) Pipe 10 In. Diam.		1510		
B-25	7-17 SP	520	LF	High-Density Polyethylene (HDPE) Casing Pipe 16 In. Diam.		520		
B-26	7-17 SP	20	LF	PVC Sanitary Sewer Pipe 6 In. Diam.		20		
B-27	7-17 SP	290	LF	PVC Sanitary Sewer Pipe 8 In. Diam.		290		
B-28	7-19 SP	1	EA	Sewer Cleanout		1		
A-27, B-29	8-01	37	EA	Inlet Protection	19	5	4	9
A-28	8-01	770	LF	High Visibility Fence	770			
A-29	8-01	1	LS	Erosion Control and Water Pollution Prevention	LS			
A-30, B-30	8-02 SP	590	SY	Seeding, Fertilizing, and Mulching	570	10	10	
A-31	8-02 SP	70	SY	Bark or Wood Chip Mulch	70			
A-32, B-31	8-02 SP	590	SY	Fine Compost	570	10	10	
A-33, B-32	8-02 SP	650	SY	Topsoil Type A	630	10	10	
A-34	8-04	65	LF	Cement Conc. Pedestrian Curb	65			
A-35, B-33	8-04	55	LF	Cement Conc. Traffic Curb	45		10	
A-36, B-34	8-04	1860	LF	Cement Conc. Traffic Curb and Gutter	1850	10		
A-37	8-06	130	SY	Cement Conc. Driveway Entrance Type 1	130			
A-38	8-12 SP	420	LF	Coated Chain Link Fence Type 4	420			
A-39	8-14	3	EA	Cement Conc. Curb Ramp Type Perpendicular A	3			
A-40	8-14	4	EA	Cement Conc. Curb Ramp Type Parallel A	4			
A-41, B-35	8-14	770	SY	Cement Conc. Sidewalk	750	10	10	
A-42	8-14	35	SF	Detectable Warning Surface	35			
A-43	8-20 SP	1	LS	RRFB System (Middle School)	LS			
A-44	8-21 SP	1	LS	Permanent Signing	LS			
A-45, B-36	8-22	9340	LF	Paint Line	7640	1060	220	420
A-46	8-22	700	LF	Plastic Line	700			
A-47, B-37	8-22	7310	LF	Painted Wide Line	5180	1420	160	550
A-48	8-22	820	LF	Plastic Wide Line	820			
A-49	8-22	1510	LF	Painted Crosshatch Marking	1510			
A-50	8-22	80	LF	Plastic Stop Line	50			30
A-51, B-38	8-22	470	SF	Plastic Crosswalk Line	340	95		35
A-52	8-22	8	EA	Plastic Bicycle Lane Symbol	8			
A-53	8-22	16	EA	Plastic Traffic Arrow	16			
A-54	8-22	8100	LF	Removing Paint Line	8100			
A-55, B-39	8-22	170	SF	Removing Plastic Crosswalk Line	160	10		
A-56	8-22	15	EA	Removing Plastic Traffic Marking	15			
A-57	8-24	100	TON	Backfill for Rock Wall	100			
A-58	8-24 SP	170	TON	Rock for Rock Wall	170			

APPENDIX E

WSDOT UTILITY ACCOMMODATION PERMIT AND PERMIT PROVISIONS



Olympic Region
7407 31st Ave NE, Lacey
P.O. Box 47440
Olympia, WA 98504-7440
360-357-2600 / Fax 360-357-2601
TTY: 1-800-833-6388
www.wsdot.wa.gov

October 19, 2023

City of Port Orchard
Attn: Christian Williams
216 Prospect Street
Port Orchard, WA 98366

Re: SR 16 MP 25.92-25.95
Franchise UF-OL-2023-007
Executed

Dear Christian Williams:

Attached is a scanned copy of the above-referenced franchise amendment to construct and operate a sewer system along a portion of SR 16 in Kitsap County.

Before beginning work, please telephone the Department's representative shown on Exhibit "A", Page 1 to advise as to your start of work date and to schedule the required preconstruction conference. No work is authorized within the highway right of way until this notice is given.

The Department has set up a reimbursable account to recover additional costs incurred for review and inspection of the franchise amendment. This is consistent with the terms and conditions of the application.

Please be aware that General Provision #10 requires notification for final inspection of this project and Special Provisions #1, #2, #43 and #44 have requirements that must be completed prior to beginning work.


Sincerely,

Cameron Minten

Cameron Minten
Utility Project Support and Accommodations Engineer

CM
Attachments
JC8626-01

Utility Accommodation Application (Permit or Franchise)

Utility Contact Information (Applicant)			
Utility Company City of Port Orchard		Utility Contact Name Christian Williams	
Email cwilliams@portorchardwa.gov		Phone (Office/Cell/Voicemail) 360-876-7039	
Location (www.snagmp.com)			
State Route 16	Milepost Begin 25.92	Milepost End 25.95	County Kitsap
Installation		Submit the Following Documentation:	
Please Check One <input type="checkbox"/> Power <input checked="" type="checkbox"/> Sewer <input type="checkbox"/> Water <input type="checkbox"/> Telecommunication <input type="checkbox"/> Gas <input type="checkbox"/> Other _____		Please Check All That Apply <input checked="" type="checkbox"/> Buried <input type="checkbox"/> Aerial <input type="checkbox"/> Surface Feature (Pole, ped, vault) <input type="checkbox"/> Attached to a bridge/structure	
		Utility Facility Description (UFD) Plan Sheets For Additional Documents Applicable to your work, see Submitting a Utility Accommodation Application Webpage (Link)	
Describe Installation Type (Briefly explain) Installation of new 10" HDPE sewer force main underneath the SR 16 overpass of Pottery Ave/Sidney Rd SW. Trenching will occur within the SB lane of the existing roadway.			
Anticipated Construction Start Date: May 2023		Project Duration: 2 months	
Billing Information*			
Contact Name K. Chris Hammer - City Engineer			
Street 216 Prospect St			
City Port Orchard		State WA	Zip + 4 98366
Phone (Office/Cell/Voicemail) 360-874-5536		Email kchammer@portorchardwa.gov	
Federal Tax ID 91-6001487		Applicant Reference Work Order (<i>optional</i>)	
Utility Authorized Signatory			
Signature 		Printed Name & Title/Owner K. Chris Hammer - City Engineer	Date 3/13/2023
The Authorized Signatory indicates the General Provisions , as provided, have been read and are agreed to by the Utility. The Utility understands, based on the proposed installation, applicable special provisions will be provided at issuance of your Permit or Franchise.			
* WSDOT has the authority to invoice the Utility for all work associated with the review, processing and inspection of the proposed installation. The applicant promises to pay any additional costs, in addition to the fees, incurred by WSDOT in accordance with WAC 468-34 and RCW 47.44 .			
Supplemental Contact Information of Authorized Agent if NOT the Utility			
Company Name		Contact Name	
Email		Phone (Office/Cell/Voicemail)	



Utility Accommodation (Permit or Franchise)

Utility Company: City of Port Orchard			Work Order:	
Permit/Franchise Number UF-OL-2023-007		Expiration 10 - 19 - 2048	Charge Code* JC8626	Group 01
Date Received 3-13-2023	Reviewed By Cameron Minten	Region Address Olympic: PO Box 47440, Olympia, WA 98504-7440		
Application Type Franchise Amendment		Category, Impact to R/W Category 2 - Medium Impact	Fees* \$300	Access Control Full - LF
<input type="checkbox"/> In accepting this Franchise Amendment No. _____ to _____, Utility agrees that the General Provisions to the original Franchise shall be replaced in their entirety with the General Provisions as included with this Amendment. All other terms and conditions of the original franchise shall remain in full force and effect.				
<p>* The fees required under WAC 468-34 and RCW 47.44 are paid by the Utility to cover the basic administrative expenses incidental to the processing of this application. The applicant promises to pay any additional costs for all work associated with the review, processing and inspection for the proposed installation. Checks or money orders are to be made payable to "Washington State Department of Transportation".</p>				
Location: State Route: 16 ML Begin Milepost: 25.92 Link End Milepost: 25.95 Link				

Instructions for sending payment:

1. Include this page with remittance of fees noted above. Fees shall be paid in advance of application approval.
2. The above noted Charge Code has been established for the review, processing and inspection for the proposed installation. WSDOT will send an invoice for incurred costs; send payment with a copy of the invoice to Region Address noted above.

Utility Company: City of Port Orchard IMPORT CLEAR FORM

Permit/Franchise Number UF-OL-2023-007		Expiration 10 - 19 - 2048	Charge Code* JC8626	Group 01
Date Received 3-13-2023	Reviewed By Cameron Minten	Region Address Olympic: PO Box 47440, Olympia, WA 98504-7440		
Application Type Franchise Amendment	Category, Impact to R/W Category 2 - Medium Impact	Fees* \$300	Access Control Full - LF	

In accepting this Franchise Amendment No. _____ to _____, Utility agrees that the General Provisions to the original Franchise shall be replaced in their entirety with the General Provisions as included with this Amendment. All other terms and conditions of the original franchise shall remain in full force and effect.

* The fees required under [WAC 468-34](#) and [RCW 47.44](#) are paid by the Utility to cover the basic administrative expenses incidental to the processing of this application. The applicant promises to pay any additional costs for all work associated with the review, processing and inspection for the proposed installation. Checks or money orders are to be made payable to "Washington State Department of Transportation".

Exhibits

The above-noted Permit, Franchise or Franchise Amendment is subject to the terms and conditions stated in the General Provisions, as well as all the Exhibits.

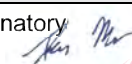
Exhibit A: Special Provisions for Permits and Franchises	Page(s) 7
Exhibit B: Utility Facility Description (UFD)	Page(s) 1
Exhibit C: Plan Sheets/Maps	Page(s) 15
Exhibit D: Minimum Coverage Detail	Page(s) 1
Exhibit E: Open Trench Detail	Page(s) 1
Exhibit F: Utility Design Criteria and General Notes	Page(s) 2
Exhibit G: Notification of Maintenance Operations	Page(s) 1
Exhibit H:	Page(s)

Vicinity Maps

State Route: 16 ML Begin Milepost: 25.92 [Link](#) End Milepost: 25.95 [Link](#)



Departmental Approval

WSDOT Authorized Signatory 	Digitally signed by Devin Maher Date: 2023.10.19 15:22:20 -07'00'	Printed Name and Job Title Devin Maher - Olympic Region Utility Engineer	Date Issued 10/19/2023
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This Permit or Franchise is issued pursuant to the terms of RCW 47.32, RCW 47.44, and WAC 468-34, and amendments thereto. Renewal of a Franchise must be by application prior to expiration of this Franchise as required by RCW 47.44.020(3).

1. A copy of this Permit or Franchise must be on the job site, protected from the elements, at all times during any construction authorized by this Permit or Franchise.
2. The Utility agrees to pay the reasonable costs for investigating, handling, and granting the Permit or Franchise, including, but not limited to basic overhead charges and for providing an inspector during construction and/or maintenance of the Utility's facilities. Further, the Utility agrees that it shall be responsible for and pay WSDOT's expended direct and indirect costs associated with applicable provisions of the Permit or Franchise. WSDOT will assign a reimbursable account to the Utility as a means of invoicing the Utility for the costs associated with this Permit or Franchise.
 - (a) WSDOT will assign a reimbursable account to the Utility as a means of invoicing the Utility for the costs associated with this Permit or Franchise.
 - (b) WSDOT will invoice the Utility and the Utility agrees to pay WSDOT within thirty (30) calendar days of receipt of an invoice.
 - (c) The Utility agrees that it shall be responsible to maintain any bond or surety documentation with WSDOT according to WAC 468-34.
3. Upon approval of this Permit or Franchise, the Utility shall diligently proceed with the Work and comply with all General and Special Provisions herein. Construction of facilities proposed under this Permit or Franchise shall begin within one (1) year and must be completed within three (3) years from date of WSDOT approval. "Work" under this Permit or Franchise shall mean construction, operation, and maintenance of the Utility's facilities as authorized herein.
4. The Utility shall notify WSDOT Representative in Special Provision 1 of the name, address, and telephone number of its contractor when Work outlined herein is going to be performed with other than its own forces. When the Utility uses a contractor, an authorized representative of the Utility shall be present at all times unless otherwise agreed to by WSDOT Representative. A list of authorized representatives shall be submitted prior to the construction start date. (Authorized representatives are defined as persons having signatory authority for the Utility and or the authority to control the Work as needed for any issues identified by WSDOT.)
5. The Utility agrees to schedule and perform its Work in such a manner as not to delay WSDOT's contractor's work when WSDOT has a contractor performing work in the vicinity of the Utility's Work.
6. All contact between WSDOT and the Utility's contractor shall be through the Utility representative. Where the Utility chooses to perform the Work with its own forces, it may elect to appoint one of its own employees engaged in the Work as its representative. The Utility, at its own expense, shall adequately police and supervise all Work performed by itself, its contractor, subcontractor, agent, and/or others, so as not to endanger or injure any person or property.
7. In the event any milepost, fence, or guardrail is located within the limits of the Utility's Work and will be disturbed during Utility Work, the Utility shall submit a plan indicating impacts to these highway facilities to WSDOT's Representative for approval prior to Utility Work. Utility agrees to carefully remove these highway facilities prior to Utility Work and reset or replace these highway facilities after the Utility Work, to WSDOT's sole satisfaction and at the sole cost of the Utility. The Utility agrees that all highway signs and traffic control devices shall not be removed or disturbed during Utility Work.
8. The Utility agrees that all Work shall be done to the satisfaction of WSDOT. All material and workmanship shall conform to WSDOT's Standard Specifications for Road, Bridge, and Municipal Construction, current edition, and amendments thereto, and shall be subject to WSDOT inspection. All WSDOT acceptance and inspections are solely for the benefit of WSDOT and not for the benefit of the Utility, the Utility's contractor (if any), or any third party. The Utility agrees that it shall pay all WSDOT inspection costs in accordance with General Provision 2. The Utility shall perform in a timely manner all Utility work, to avoid highway project impacts or delays and in such manner as will cause the least disruption of traffic or interference with WSDOT's continued operation and/or maintenance of the highway.

9. The Utility shall comply with the Manual on Uniform Traffic Control Devices for Streets and Highways (Federal Highway Administration) and the State of Washington modifications thereto (chapter 468-95 WAC) while it performs the Work. If WSDOT requires, the Utility shall submit a signing and traffic control plan to WSDOT's Representative for approval prior to construction or maintenance Work. No lane closures shall be allowed except as approved by WSDOT's representative. Approvals may cause revision of Special Provisions of this Permit or Franchise, including hours of operation.
10. This Permit or Franchise may not be amended or modified without WSDOT's prior review and approval. Upon completion of the Work, the Utility shall provide a written notice of completion of the Work to WSDOT's Representative within ten (10) calendar days of the completion of the Work so that WSDOT may make its final inspection. Further, the Utility shall provide the Region Utilities Engineer with detailed as-built drawing within ninety (90) calendar days of Work completion, if the originally approved Permit or Franchise construction plans have been revised during the course of construction or upon request from the Region Utilities Engineer.
11. If WSDOT, at its sole discretion, shall determine that any or all of the Utility's facilities must be modified, removed from, or relocated within the state-owned highway right of way as necessary, incidental, or convenient for the construction, alteration, improvement, repair, relocation, or maintenance of the state highway, or for the safety of the traveling public, the Utility, its successors and assigns, shall, at its sole cost and expense, upon written notice by WSDOT, modify, relocate, or remove any or all of its facilities within or from the state-owned highway right of way as required by WSDOT. The Utility shall perform in a timely manner all facility modifications, relocations, and/or removals as WSDOT directs, to avoid highway project impacts or delays and in such manner as will cause the least disruption of traffic or interference with WSDOT's continued operation and/or maintenance of the highway. The Utility agrees it shall be solely responsible for any claims, damages, or any other associated project costs that are a result of the Utility's failure to modify, remove and/or relocate its facilities in timely manner as directed by WSDOT.
12. Should the Utility fail or refuse to comply with WSDOT's direction, pursuant to General Provision 11, to modify, remove, or relocate any Utility facility, WSDOT may undertake and perform any modification, removal, or relocation of the Utility facility that WSDOT, in its sole discretion, deems necessary. The Utility agrees to pay all of WSDOT's costs for performing this work, in accordance with General Provision 2.
13. If WSDOT determines in good faith that emergency maintenance work on the Utility's facility is needed to (a) protect any aspect of the state highway right of way, or (b) secure the safety of the traveling public due to a failure of the Utility's facility, WSDOT may perform the necessary work without the Utility's prior approval, and the Utility agrees to pay WSDOT's expended costs and expenses for performing the work in accordance with General Provision 2. WSDOT will notify the Utility of the emergency work performed as soon as practicable.
14. WSDOT may amend, revoke, or cancel this Permit or Franchise at any time by giving written notice to the Utility. If the Permit or Franchise is amended, the Utility will have thirty (30) calendar days to modify the facility as the Permit or Franchise amendment(s) require. If the facility modifications cannot be made within thirty (30) calendar days, the Utility shall respond to WSDOT, in writing, as to when the facility modifications can be made. If the Permit or Franchise is revoked or canceled, the Utility shall immediately remove all facilities from the right of way. Any facilities remaining upon the right of way thirty (30) calendar days after written notice of Permit or Franchise revocation or cancellation may be removed by WSDOT at the expense of the Utility. The Utility agrees to pay WSDOT's expended costs and expenses for performing the work in accordance with General Provision 2.
15. Should the Utility breach any of the conditions and requirements of this Permit or Franchise, or should the Utility fail to proceed with due diligence and in good faith with the Work as authorized by this Permit or Franchise, WSDOT may cancel or revoke the Permit or Franchise upon thirty (30) calendar days written notice to the Utility.
16. The Utility shall not excavate or place any obstacle within the state-owned highway right of way in such a manner as to interfere with WSDOT's construction, operation, and maintenance of the state-owned highway right of way or the public's travel thereon without first receiving WSDOT's written authorization.
17. The Utility agrees to maintain, at its sole expense, its facilities authorized by this Permit or Franchise in a condition satisfactory to WSDOT.
18. The Utility agrees that it is financially responsible to WSDOT for all necessary expenses incurred in inspecting the construction and restoring the highway pavement or related transportation equipment or facilities to a permanent condition suitable for travel as determined by WSDOT, as well as financially responsible to WSDOT for trenching work not completed and for compensating WSDOT for the loss of useful pavement life caused by trenching as required by RCW 47.44.020.

19. Upon completion of all Work, the Utility shall immediately remove all rubbish and debris from the state-owned highway right of way, leaving the state-owned highway right of way in a neat, presentable, and safe condition to WSDOT's satisfaction. Any clean up, or any necessary slope treatment, surface restoration, or protection of the state-owned right of way, not done within one (1) week (seven consecutive days) of Work completion, unless otherwise negotiated in writing, will be done by WSDOT at the expense of the Utility. The Utility agrees to pay WSDOT's expended costs and expenses for performing the work in accordance with General Provision 2.
20. For the benefit and safety of the traveling public, the Utility voluntarily agrees to permit WSDOT to attach and maintain upon any Utility facility under this Permit or Franchise any required traffic control devices, such as traffic signals, luminaires, and overhead suspended signs, when the use of such devices or attachments does not interfere with the use for which the facility was constructed. WSDOT shall bear the cost of attachment and maintenance of such traffic control devices, including the expended cost of any extra Utility infrastructure construction beyond what is necessary for the Utility's facility; such extra cost to be jointly determined by WSDOT and the Utility. WSDOT shall not share in the Utility facilities' cost of installation, operation, or maintenance of any of the facilities installed under this Permit or Franchise.
21. The Utility shall comply with WSDOT's Temporary Erosion and Sediment Control Manual (M 3103.01) and any revisions thereto, for erosion control and/or to mitigate any erosion occurring as a result of the Work. If the Utility Work performed under this Permit alters, modifies, changes, or interferes in any way with the drainage of the state-owned highway right of way, the Utility shall, at its own expense, make all corrections and/or provisions WSDOT requires to fix and restore the state-owned right of way drainage to its original condition and function prior to the Utility's Work. Any flows from the Utility shall not exceed the flows discharging to WSDOT drainage prior to the new work. Any flows discharged to state-owned highway right of way shall meet the requirements for quantity and water quality according to the current version Highway Runoff Manual (M 31-16). Should the Utility not make the required drainage restoration, WSDOT reserves the right to make such changes as necessary to restore the original drainage function at the sole cost of the Utility, and the Utility agrees to pay WSDOT's expended costs and expenses for performing the work in accordance with Stormwater Discharge General Provision 2.
22. The Utility shall be responsible for securing all necessary permits, including but not limited to, federal, state, and local regulatory, tribal, environmental, archeological, and railroad permits and permits from the Washington State Department of Ecology, the Washington State Department of Fish and Wildlife, and/or the U.S. Army Corps of Engineers prior to beginning the Work authorized by this Permit or Franchise. The Utility shall be responsible for mitigation measures where wetlands have been disturbed and agrees that it is responsible for any fines imposed for noncompliance with the permit(s) conditions or for failure to obtain the required permits. In addition, the Utility, on behalf of itself and its contractors, officers, officials, employees, and agents, agrees to indemnify, hold harmless, and defend, at its sole cost and expense, WSDOT and its officers, officials, employees, and agents from any and all fines, costs, claims, judgments, and/or awards of damages (to regulatory agencies, persons, and/or property), arising out of, or in any way resulting from, the Utility's failure to (1) obtain any required permit for the Utility Work or (2) comply with permit conditions. Further, the Utility shall be responsible for compliance with all federal, state, and local laws, regulations.
23. For any of the Utility's Work that requires permit coverage under the "CONSTRUCTION STORMWATER GENERAL PERMIT – National Pollutant Discharge Elimination System and State Waste Discharge General Permit for Stormwater Discharges Associated with Construction Activity" (Construction Stormwater General Permit), the Utility shall obtain said permit coverage and shall comply with all requirements of the Construction Stormwater General Permit. Upon WSDOT's request, the Utility shall provide a copy of the Construction Stormwater General Permit. In addition, the Utility, on behalf of itself and its contractors, officers, officials, employees, and agents, agrees to indemnify, hold harmless, and defend, at its sole cost and expense, WSDOT and its officers, officials, employees, and agents from any and all fines, costs, claims, judgments, and/or awards of damages (to regulatory agencies, persons, and/or property), arising out of, or in any way resulting from, the Utility's failure to (1) obtain coverage under the Construction Stormwater General Permit for Utility Work or (2) comply with the Construction Stormwater General Permit requirements.

24. This Permit or Franchise does not authorize the Utility, or its employees, contractors, or agents, any right to cut, spray, retard, remove, destroy, disfigure, or in any way modify the physical condition of any vegetative material located on the state-owned highway right of way. Should the Utility anticipate that its Work will alter the appearance of the state-owned highway right of way vegetation, the Utility shall notify WSDOT Representative to obtain WSDOT's prior written approval of the Utility's proposed work. If WSDOT permits the Utility to modify the state-owned highway right of way vegetation, it agrees that any vegetation cutting and/or trimming activities shall be conducted in such a manner that the state-owned highway right of way vegetation appearance will not be damaged. Should the Utility damage the appearance of the state-owned highway right of way vegetation without WSDOT's prior written approval, the Utility is subject to penalties provided for in RCWs 47.40.070, 47.40.080, and 4.24.630, as applicable.
25. The Utility hereby certifies that its facilities described in this Permit or Franchise are (1) in compliance with the Control Zone Guidelines, or (2) for a franchise consolidation or renewal, a mitigation plan has been submitted and approved for any existing Location I or Location II utility objects to be corrected in accordance with the Control Zone Guidelines, pursuant to Chapter 9 of WSDOT's Utilities Manual (M 22-87) and any revisions thereto.
26. The Utility shall not assign or transfer this Permit or Franchise without WSDOT's prior written approval. The Utility understands that any assignment or transfer requires the assignee or transferee to have the means to assume all obligations, duties, and liabilities of the terms and conditions of this Permit or Franchise, and the Utility will advise the assignee or transferee of its obligation to apply for an updated or replacement Permit or Franchise. If WSDOT does not approve the assignment or transfer, this Permit or Franchise shall automatically terminate, and the facility occupying state-owned highway right of way shall be subject to the terms of RCW 47.44.060.
27. The Utility, its successors and assigns, shall indemnify, defend at its sole cost and expense, and hold harmless the State of Washington, its officers and employees, from all claims, demands, damages (both to persons and/or property), expenses, regulatory fines, and/or suits that (1) arise out of or are incident to any acts or omissions of the Utility, its agents, contractors, and/or employees, in the use of the state-owned highway right of way as authorized by the terms and conditions of this Permit or Franchise, or (2) are caused by the breach of any of the terms or conditions of this Permit or Franchise by the Utility, its successors and assigns, and its contractors, agents, and/or employees. The Utility, its successors and assigns, shall not be required to indemnify, defend, or hold harmless the State of Washington, its officers and/or employees, if the claim, suit, or action for damages (both to persons and/or property) is caused by the acts or omissions of the State of Washington, its officers and/or employees; provided that, if such claims, suits, or actions result from the concurrent negligence of (a) the State of Washington, its officers and/or employees, and (b) the Utility, its agents, contractors, and/or employees, or involves those actions covered by RCW 4.24.115, the indemnity provisions provided herein shall be valid and enforceable only to the extent of the acts or omissions of the Utility, its agents, contractors, and/or employees.
28. The Utility agrees that its obligations under this Permit or Franchise extend to any claim, demand, and/or cause of action brought by, or on behalf of, any of its employees or agents while performing Work under this Permit or Franchise while located on state-owned highway right of way. For this purpose, the Utility, by MUTUAL NEGOTIATION, hereby waives, with respect to the State of Washington only, any immunity that would otherwise be available to it against such claims under the Industrial Insurance provisions in chapter 51.12 RCW.
29. The indemnification and waiver provided for in General Provisions 27 and 28 shall survive the termination of this Permit or Franchise.
30. Any action for damages against the State of Washington, its agents, contractors, and/or employees, arising out of damages to a utility or other facility located on state-owned highway right of way, shall be subject to the provisions and limitations of RCW 47.44.150.
31. This Permit or Franchise shall not be deemed or held to be an exclusive one and shall not prohibit WSDOT from granting rights of like or other nature to other public or private utilities, nor shall it prevent WSDOT from using any of the state-owned highway right of way or other properties for transportation purposes, or affect WSDOT's right to full supervision and control over all or any part of the state-owned highway right of way or properties, none of which is hereby surrendered. Further, WSDOT reserves the exclusive right to require that all utility facilities be subject to joint trenching and occupancy.
32. The Utility shall completely remove all Deactivated Facilities (as defined in WSDOT Utilities Manual M 22-87), unless agreed upon in writing by WSDOT, indicated in Special Provision 12. Any Deactivated facilities left within the state owned right of way shall remain owned by the Utility, who shall continue to bear all responsibility for any future costs incurred by WSDOT including for removal of the Deactivated facilities.

- 33. The Utility agrees that, in the event any construction and/or maintenance of the highway facility becomes necessary within the proximity of the utility installation, it is expressly understood that, upon request from WSDOT's Representative, the Utility will promptly identify and locate by suitable field markings (including test hole/pot hole), any and all of its underground facilities so that WSDOT or its contractor can be fully apprised at all times of their precise locations.
- 34. During non-working hours equipment and materials shall not be located or stored within the work zone clear zone (WZCZ) area. Minimum WZCZ distances will be measured from the edge of the traveled way (the portion of the roadway intended for the movement of vehicles, exclusive of shoulders and lanes for parking, turning, and storage for turning) and will be determined as follows:

Minimum Work Zone Clear Zone Distance

Posted Speed	Distance From Traveled Way (ft)
35 mph or less	10
40 mph	15
45 to 55 mph	20
60 mph or greater	30

Applicable provisions are denoted by (✓)

1. All Work related to this Utility application must be authorized in advance by the following Washington State Department of Transportation (WSDOT) Representative(s):

Name: Cameron Minten

Name: _____

Title: Utility Inspection Engineer

Title: _____

Street: 7407 31st Ave NE

Street: _____

City: Lacey

City: _____

State: WA Zip: 98516

State: _____ Zip: _____

Phone: 360-357-2618 Cell: _____

Phone: _____ Cell: _____

Email/Fax: MintenC@wsdot.wa.gov

Email/Fax: _____

2. The Utility must complete the following requirements prior to authorization by WSDOT to perform Work:

- a. The Utility shall notify in writing the identified WSDOT Representative(s) at least five (5) working days (Monday through Friday excluding any holidays). The Utility may not perform Work until authorized by the WSDOT Representative(s) in Special Provision 1.
- b. A pre-construction conference shall be held with all pertinent representatives, as identified by the Utility, and agreed to by WSDOT. The Utility shall give five (5) working days (Monday through Friday excluding any holidays) notice to WSDOT's Representative(s) (prior to the pre-construction conference). A pre-construction conference is not an authorization for the Utility to proceed with Work.

3. Work within the state-owned highway right of way shall be restricted to see Special Provision #33. No Work shall be allowed on Saturday, Sunday, or holidays, without prior approval by WSDOT. In addition, the Utility shall be off the highway by noon the day prior to a holiday unless authorized by WSDOT. If a holiday falls on a Saturday, the preceding Friday is counted as the holiday, and the Utility shall be off the highway by noon Thursday. When the Holiday falls on a Monday the Utility shall be off the right of way at noon on the preceding Friday. Nothing in this section shall limit the authority of WSDOT to further restrict work within state-owned highway right of way at WSDOT's discretion. The hours of closure are subject to change if required by WSDOT.

4. The Utility shall not disturb, remove, or destroy any existing Survey Monument before obtaining a Permit from the Washington State Department of Natural Resources (RCW 58.24.040). During the Work, upon discovery, unauthorized damage, or unauthorized alteration of a monument or right of way marker, the Utility shall cease Work in that area and immediately notify the WSDOT Representative listed in Special Provision Number 1, or the Region Right-of-Way and Survey Manager listed below. Work in that area shall not resume until authorized by the WSDOT Representative.

Name: Bradley M. Berry, P.L.S.

Phone: 360-357-2754

Email: BerryB@wsdot.wa.gov

The Utility agrees to pay all WSDOT costs to perform monument or right of way marker work, as provided in this provision, in accordance with General Provision 2.

5. In the event that during the course of this project an inadvertent discovery of historical/archeological objects, human remains, or a bone/bones of uncertain origin is made, the Utility shall immediately cease operations and contact WSDOT Representative in Special Provision 1 and WSDOT Archaeologist:

Name: Roger Kiers

Phone: 360-570-6638

Email: kiersro@wsdot.wa.gov

Determination of necessary follow-up actions or the ability to continue work shall be at the sole discretion of the WSDOT.

6. Construction of this facility will not be permitted from the shoulders, traffic lanes, and/or ramps of SR _____. All construction access will be from _____.

BOND AND INSURANCE COVERAGE

7. The Utility has provided bond coverage for the Work under this Permit or Franchise by furnishing a blanket surety bond held by WSDOT at the WSDOT Headquarters Utilities in Olympia, WA.
8. The Utility or its contractor shall provide an individual surety bond to WSDOT in the amount of \$ _____, written by a surety company authorized to do business in the State of Washington, or shall set up a WSDOT approved escrow account prior to the start of construction to cover the Work under this Permit or Franchise. The surety bond or escrow account shall remain in force for a period of one (1) year after the written notice of completion of the Work (as provided in General Provision 11), except that when the Work impacts the paved highway (open cuts, bores or damage to the highway surface), the Utility shall be required to maintain the surety bond or escrow account for a period of two (2) years after the notice of completion.
9. When the Utility chooses to perform the Work with other than its own forces and requires its contractor to provide a surety bond to WSDOT before performing any Work to ensure compliance with all of the terms and conditions of this Permit or Franchise, the bond shall be in the amount of \$ _____, written by a surety company authorized to do business in the State of Washington and shall remain in force until all Work under this Permit or Franchise has been completed, and the Utility's contractor has restored any affected WSDOT property and right of way to the satisfaction of WSDOT.
10. The Utility shall have sufficient insurance coverage when performing any Work within state-owned highway right of way, as follows:
- (a) Commercial General Liability covering the risks of bodily injury (including death), property damage, and personal injury, including coverage for contractual liability, with a limit of not less than \$3 million per occurrence and in the aggregate.
 - (b) Business Automobile Liability (owned, hired, or non-owned) covering the risks of bodily injury (including death) and property damage, including coverage for contractual liability, with a limit of not less than \$1 million per accident.
 - (c) Employers Liability covering the risks of Utility's employees' bodily injury by accident or disease, with limits of not less than \$1 million per accident for bodily injury by accident and \$1 million per employee for bodily injury by disease.

Such insurance policies or related certificates of insurance shall name the Washington State Department of Transportation as an additional insured on all general liability, automobile liability, employers' liability, and excess policies. A forty-five (45) calendar day written notice shall be given to WSDOT prior to termination of or any material change to the policy(ies) as such relate(s) to this Permit or Franchise. The Utility shall provide proof of insurance upon request to the WSDOT Representative(s) identified in Special Provision 1.

11. If the Utility is a city or county, they shall have sufficient insurance coverage through a Risk Pool or is self-insured, to comply with the insurance terms and conditions of this Permit or Franchise. The city or county shall provide proof of insurance upon request to the WSDOT Representative(s) identified in Special Provision 1.

UNDERGROUND FACILITIES

12. Deactivated facilities left within the state owned right of way shall remain owned by the Utility, who shall continue to bear any and all responsibility for any future costs or impacts related to the Deactivated facilities if required by WSDOT in its sole discretion.

- 13. For underground facilities, markers shall be placed at both ends of a crossing, and at all changes in offset distance from right of way line or centerline of the highway and placed approximately every 500 feet for longitudinal installations. Marker information as a minimum shall include owner name, pipeline or cable identification and station, and telephone number or other means to contact a local office. Markers must follow WSDOT's Standard Specifications for Road, Bridge, and Municipal Construction Manual M 41-10, Division 9 (9-17 Flexible Guideposts), not create a safety hazard, and all markers shall be placed and maintained so as to minimize interference with WSDOT maintenance operations. It is the Utility's responsibility to maintain its markers. Maintenance of markers includes but is not limited to update of Utility's name (if changed) or Utility's successors' or assigns' contact information, and replacement of damaged or missing markers.
- 14. All underground facilities shall include a component by which the utility can be located with conventional methods, provided that for all installations in trenches, the Utility shall install detector tape approximately 12 inches above the underground facility. The tape shall conform to the standards of the American Public Works Association Uniform Color Code.
- 15. Utility facilities or casings for facilities crossing under highways surfaced with oil, asphalt concrete pavement, or cement concrete pavement shall be by trenchless construction, using the appropriate equipment to jack, bore, or auger the facility through the highway prism with a minimum depth of 5 feet along any point from the top of facility to the lowest point of the finished highway grade, at a minimum of 3.5 feet depth from bottom of ditch/toe of slope to top of facility or casing.
- 16. If PVC or HDPE casings are utilized for crossings, they shall be greater than Schedule 80 or equivalent or as approved by WSDOT.
- 17. Casing requirements (WAC 468-34-210) for utilities are specified individually or in whole on the attached exhibits. Any variances to these casing requirements must be approved by WSDOT, in writing prior to installation.
- 18. Pipeline installation shall meet the provisions of chapter 480-93 WAC, Gas Companies- Safety, and amendments thereto.
- 19. Open trenching (cutting a trench for direct placement of a utility that does not include cutting an existing paved highway surface) will only be allowed at the locations identified on the plan sheets and/or listed on Exhibit(s) "B" & "C" _____, with restoration to be performed as noted on the attached "Open Trench Detail", Exhibit "E" _____.
- 20. Open cuts (cutting a trench for direct placement of a utility that does include cutting the existing paved highway surface) of the highway are a variance to WSDOT policy, requiring justification (Open Cut Variance Request) and approval by WSDOT prior to the Work beginning. Open cuts are only allowed at approved locations identified on the plan sheets and/or listed on Exhibit(s) _____, with restoration to be performed as noted on the attached "Open Cut Detail," Exhibit _____.
- 21. If determined necessary by WSDOT Representative, any or all of the excavated material shall be removed and replaced with suitable material as specified by WSDOT. It is the Utility's responsibility to obtain any necessary permits or comply with applicable requirements to haul or dispose of any excavated material.
- 22. If determined by the Washington State Department of Labor and Industries and/or WSDOT Representative that extra Shoring (beyond that specified in Section 7-08.3(1)B of WSDOT's Standard Specifications for Road, Bridge, and Municipal Construction) is necessary for the safety of the workers or the protection of the highway pavement, the trenching or excavation work shall be stopped and no Work in the trench or excavation area will be allowed until satisfactory modifications are made.
- 23. All trenches, boring or jacking pits, etc., shall be backfilled as soon as possible. If left open during nonworking hours, they shall be protected to the satisfaction of WSDOT. Methods of protection shall be submitted a minimum of fourteen (14 _____) calendar days in advance for approval by WSDOT prior to use.

AERIAL/ABOVEGROUND FACILITIES

- 24. All facilities on joint use poles shall be relocated at the time the pole owner either moves or removes its poles. (The pole owner is the Permit or Franchise holder under which the poles were installed and is responsible for ensuring the removal of the pole.)

- 25. Neutral conductors associated with circuits of 0 to 22 Kilovolts, where the neutral is considered to be 0-750 Volts, shall have a minimum clearance of 24 feet Vertical Clearance as indicated in WAC 468-34-290, 20 feet provided the facility is grounded at each pole at each end of the crossing.
- 26. The Utility agrees to underground the aboveground facilities covered by this Franchise in Scenic Classes "A" and "B", as defined on the attached Exhibit(s) _____, either at the time of major construction of the facility, for that portion of facility to be reconstructed, or prior to expiration of this Franchise.
- 27. The Utility agrees to underground the aboveground facilities covered by this Franchise in Scenic Classes "A," "AX," "B," and/or "BX," as defined on the attached Exhibit(s) "B" & "C", at the time the pole owner undergrounds its facility. The existing aboveground facility may remain or be relocated as aboveground in Scenic Classes "AX" or "BX," if acceptable to WSDOT.
- 28. The Utility agrees to underground or relocate the existing aboveground facilities covered by this Franchise in Scenic Classes "A," "AX," "B," and/or "BX," as defined on the attached Exhibit(s) _____, to a location acceptable to WSDOT either at the time of reconstruction, for the portion of line to be reconstructed, or prior to the expiration of this Franchise. The existing aboveground facility may remain or be relocated as aboveground in Scenic Classes "AX" or "BX," if acceptable to WSDOT.

MAINTENANCE

- 29. No routine maintenance of the facility authorized by this Permit or Franchise will be allowed within the limited access area.
- 30. Maintenance access of this facility will not be permitted from the shoulders, thru-traffic lanes, and/or ramps of _____, and all service to this facility will be accessed from _____.
- 31. The Utility will notify WSDOT representative(s), listed in Special Provision 1, five (5) working days (Monday through Friday excluding any holidays) prior to any scheduled maintenance work to be performed in the state-owned highway right of way.

- 32. During construction and/or maintenance of this facility, the Utility shall comply with the traffic control plan attached and marked "Exhibit D". Any deviation from this traffic control plan will require approval by the Department's representative prior to construction or maintenance operations.

The Utility shall contact Port Orchard Maintenance at 360-874-3050 and the Olympic Region Utility Inspection Engineer at 360-357-2618 a minimum of one week prior to any lane closure operations. The Utility shall contact Olympic Radio at (253) 538-3300 a minimum of one-half hour prior to any lane closure operations and immediately after the lanes are reopened to traffic.

- 33. Work within state-owned highway right of way shall be restricted to the days of the week and hours shown below unless otherwise approved or directed by the department representative. No Work shall be allowed on Saturday, Sunday, or Holidays. Nothing in this section shall limit the authority of the Department to further restrict work within state-owned highway right of way at the Department's discretion. The hours of closure are subject to change if unanticipated circumstances occur.

Lane Closures

Monday – Wednesday	Northbound	to	Southbound	to
Thursday	Northbound	to	Southbound	to
Friday	Northbound	to	Southbound	to

Shoulder Closures

Monday – Wednesday	Northbound	8:00 AM	to 4:30 PM	Southbound	8:00 AM	to 4:30 PM
Thursday	Northbound	8:00 AM	to 4:30 PM	Southbound	8:00 AM	to 4:30 PM
Friday	Northbound	8:00 AM	to 4:30 PM	Southbound	8:00 AM	to 4:30 PM

Other

- 34. The Department will require a Certified Traffic Control Supervisor be on the project at all times. The requirements of the Traffic Control Supervisor shall conform to Section 1-10.2(1) and Section 1-10.2(1)B of the WSDOT Standard Specifications for Road, Bridge and Municipal Construction. The Traffic Control Supervisor shall be certified by one of the following:

The Northwest Laborers-Employers Training Trust
27055 Ohio Ave.
Kingston, WA 98346
(360) 297-3035

Evergreen Safety Council
401 Pontius Ave. N.
Seattle, WA 98109
1-800-521-0778 or (206) 382-4090

The American Traffic Safety Services Association
15 Riverside Parkway, Suite 100
Fredericksburg, Virginia 22406-1022
Training Dept. Toll Free (877) 642-4637 or Phone: (540) 368-1701

- 35. Potholing will be allowed only at locations approved by the Department representative. The method of potholing and restoration shall be as directed by the Department representative.

- 36. Markers referenced in Special Provision #13 shall conform to the colors shown in Section 6-01.10 of the WSDOT Standard Specifications for Road, Bridge, and Municipal Construction, current edition.

- 37. Re-vegetation of Disturbed Areas:
The Utility shall limit site disturbance to the minimum necessary to install the utility. Vegetation removed, destroyed, or damaged as a result of the Utilities operations, shall be replaced in accordance with the following:

All areas disturbed by construction activities shall be covered with a 3-inch layer of Compost Type 1 as described in Compost Blanket, Section 8-01.3(4) and 9-14.5(8) in the Standard Specifications. Areas that were previously maintained as mowed erosion grass and areas determined by the Department representative shall be composted, seeded, fertilized, and mulched. Seeding, fertilizing, and mulching shall be as specified in Special Provision #38. Application dates shall be as specified in Section 8-02.3(9)A.

Areas determined by the Department representative will require additional planting. The types of plant species and density of the planting will be determined prior to final restoration.

- 38. Seeding, fertilizing, and mulching will be required for all areas where the ground is disturbed due to the utility installation. The Department’s representative will have the final determination as to which areas will require the seeding, fertilizing, and mulching mitigation. The seeding, fertilizing, and mulching operation shall meet the requirements of Division 8 of the Washington State Department of Transportation, Standard Specifications for Road, Bridge, and Municipal Construction and the following supplements.

Seed

Section 9-14.3 is supplemented with the following:

Grass seed, of the following composition, proportion, and quantity shall be applied at a rate of 80 pounds per acre on all areas requiring roadside seeding within the project.

<u>Kind and Variety of Seed in Mixture</u>	<u>% By Weight</u>	<u>Minimum % Pure Seed</u>	<u>Minimum % Germination</u>
Red Fescue	40	39.2	90
Perennial Rye	40	39.2	90
Colonial Bentgrass	10	9.8	85
White Dutch Clover, pre-inoculated	10	9.8	90
	Weed Seed	0.5	
	Inert / Other	1.5	

Fertilizer

Section 9-14.4 is supplemented with the following:

Sufficient quantities of fertilizer shall be applied to supply the following amounts of nutrients

Total Nitrogen as N - 135 pounds per acre.

Available Phosphoric Acid as P₂O₅ - 60 pounds per acre.

Soluble Potash as K₂O - 60 pounds per acre.

Ninety pounds of nitrogen applied per acre shall be derived from isobutylidene diurea (IBDU), cyclo-di-urea (CDU), or sulphur coated urea (SCU). The remainder may be derived from any source.

The fertilizer formulation and application rate shall be approved by the Department’s Representative before use.

Mulching and Amendments

Section 9-14.5 is supplemented with the following:

Wood cellulose fiber mulch shall be applied at a rate of 2000 pounds per acre.

At locations determined by the Department’s representative seeding by hand may be allowed. If hand seeding is allowed, the grass seed shall be a commercially prepared mix, made up of a low growing species which will grow without irrigation at the project location. The application rate shall be two pounds per 1000 square feet. The source and brand of the grass seed shall be verified through the Region Landscape Office. The Region contact is Cameron Archie at 360-570-6674 .

- 39. It is the responsibility of the Utility to secure any rights, easements, or permission required for the installation and maintenance of facilities on private property within the limits of this permit.
- 40. The Department reserves the right to suspend all work on this project at any time. Upon suspension the Utility shall remove all construction equipment from state right of way. Suspension shall remain in effect until the Utility receives written approval to resume work from the Department.

During the period between November 1st and March 31st, construction requiring clearing and grubbing, or excavation shall be suspended unless approved by the Department’s representative.

Suspension of work by the Department shall not relieve the Utility of liability. The Utility shall install and maintain all erosion control measures required by Federal, State, and County agencies for the term of suspension, at the sole expense of the Utility.

**Washington State
Department of Transportation**

**Special Provisions for Utility
Accommodation Application**

- 41. Per RCW 19.122, the Utility shall call 811 a minimum of two business days prior to excavating within the State highway right of way to locate existing underground utilities. For additional information regarding WSDOT owned facilities within the project limits, contact the WSDOT Olympic Region Signal Superintendent, Perry Herland a minimum of two business days prior to commencing any excavations, at 360-357-2669 during normal business hours (7:30AM to 4:00PM) or email at HerlandP@wsdot.wa.gov .

- 42. The Utility shall have the items listed below available to the Department upon request. The review, comment, and approval/acceptance period of the items listed below may take up to 30 days. Revisions returned to the Utility for additional information will reset the 30-day review, comment, and approval/acceptance period.
 - Temporary Water Pollution/Erosion Control Plan (TESC)
 - Spill Prevention, Control, and Containment Plan (SPCC)
 - Shoring Plans (If Applicable)
 - Pit Protection Plans (If Applicable)
 - Dewatering Plan (If Applicable)

- 43. Prior to and during construction, the Utility shall submit weekly working schedules showing workdays, non-workdays, and construction activities. Schedules shall be submitted three working days prior to the week reflected on the schedule. Schedules shall be submitted to both the Department representative (listed in Special Provision # 1) and the following Area Maintenance personnel. When the construction is to last more than ten consecutive days, the Utility shall also submit and receive written approval of a work schedule showing the entire project prior to beginning work. Deviations from the approved project schedule shall be submitted in writing to the Region Utility Inspection Engineer for approval.

Name: Jeff Smiley
Maintenance Area: 2
Address: 8293 Spring Creek Road SE
Port Orchard, WA 98367
Phone: 360-874-3052
Email: SmileyJ@wsdot.wa.gov

- 44. Prior to construction, the Utility shall submit and maintain an updated contact list for the Utility and Utility's contractor name, role, and phone numbers. Contact list shall be submitted five working days prior to start of work to both the Department representative (listed in Special Provision #1) and the Area Maintenance personnel (listed in Special Provision #43).

All Greyed Out Areas are For Department Use Only				Accommodation Number: UF-OL-2023-007	
State Route Number: 16		SnagMP (Link)		Access Control: LF Scenic Class: BX	
Begin Mile Post: 25.92		End Mile Post: 25.95		T, R, Sec:	

Facility Description - Provide a summary of the proposed work: (press ALT+Enter to insert line break)

Installation of new 10" HDPE sewer force main underneath the SR16 overpass of Pottery Ave/Sidney Rd SW. Sewer force main will be cased in 16" HDPE casing pipe. Trenching will occur within the SB lane of the existing roadway.

Additional Notes:

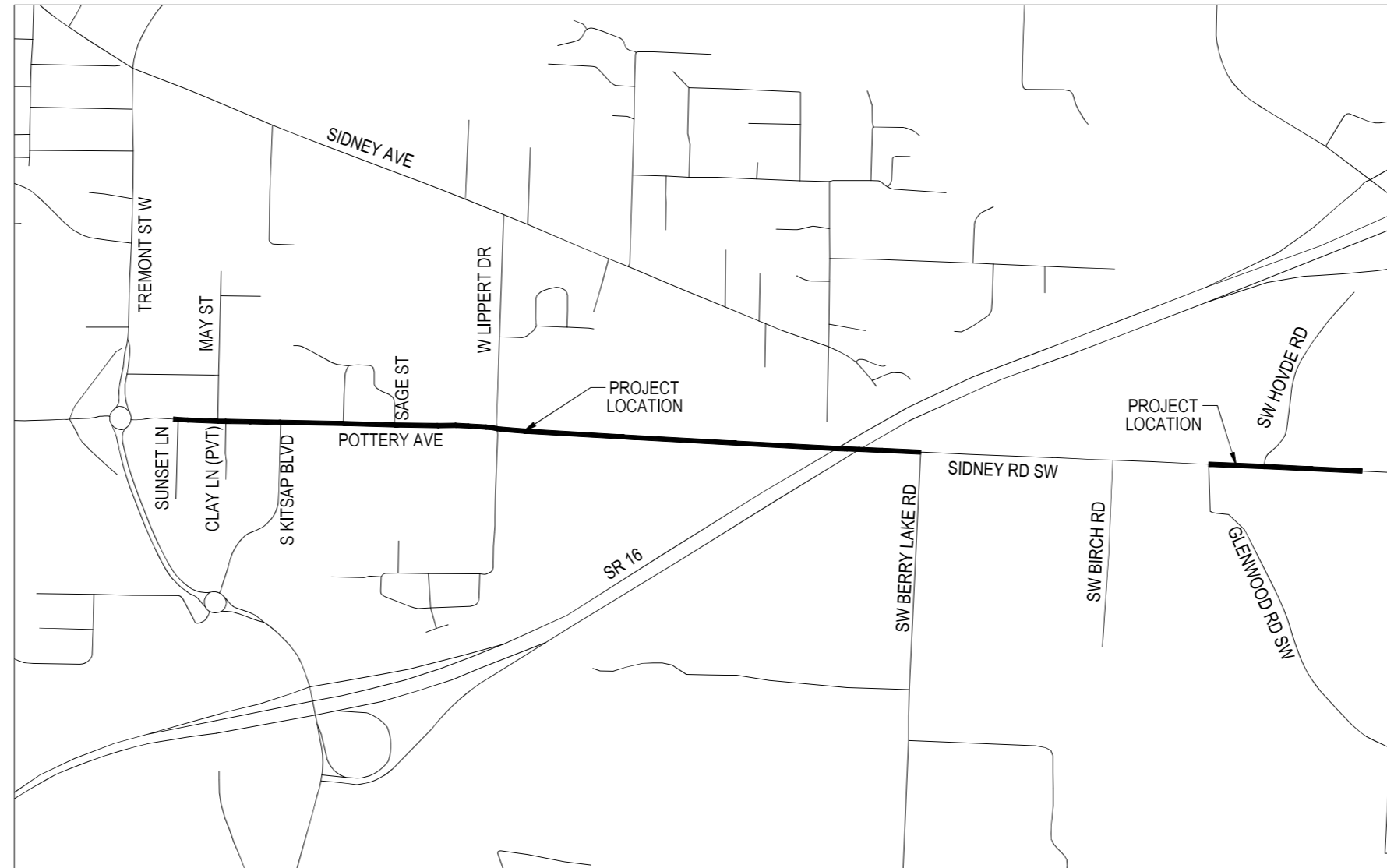
Begin Mile Post	End Mile Post	Left, Right or Xing	Offset Distances (feet)			Facility Description (Facility to be Installed/ Deactivated/ Upgraded (indicate size and/or diameter, and material)	Right of Way		Aerial, Buried, Bridge or Surface	Scenic Class	Access Control	Remarks and Installation Comments 1) Indicate where item enters/leaves R/W. 2) Include pertinent topography info (turnouts, Rd. approaches, intersections, culvert, guardrail, xing method, split grade/under/overpass, etc.)
			From Center Line	From Edge of Traveled Way (Fogline)	Depth or Height		Left	Right				
25.92	25.95	Xing			5	10" HDPE Sanitary Sewer Force Main cased within 16" HDPE casing pipe	90	116	Buried	BX	LF	Enter R/W from Sidney Rd crossing under SR16. Trenching will be in local road underneath bridges, exiting R/W on Pottery Ave. SR16 bridges not impacted

POTTERY AVE NON-MOTORIZED IMPROVEMENTS

CITY OF PORT ORCHARD PUBLIC WORKS DEPARTMENT

SHEET INDEX

SHEET TITLE	DRAWING #	SHEET #
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SITE PREPARATION AND TESC PLAN	SP1-SP13	3-15
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MISCELLANEOUS DETAILS	MD1-MD2	28-29
UTILITY PLAN	UT1-UT9	30-38
CHANNELIZATION AND SIGNING PLAN	CH1-CH13	39-51



VICINITY MAP
N.T.S

APPROVED BY: _____ DATE _____
K. CHRIS HAMMER, P.E.
CITY ENGINEER
CITY OF PORT ORCHARD

APPROVED BY: _____ DATE _____
TONY LANG
PUBLIC WORKS DIRECTOR
CITY OF PORT ORCHARD

Exhibit "C" Page 1 of 15



CITY OF PORT ORCHARD CAPITAL PROJECTS
216 PROSPECT STREET, PORT ORCHARD, WA 98366
PHONE: 360.876.4991

NAME OR INITIALS AND DATE		NAME OR INITIALS AND DATE	
DESIGNED	CAW MAR 2023	PROJECT MANAGER:	K. CHRIS HAMMER
CHECKED	KCH MAR 2023	REVIEWED:	MAR 2023
DRAWN	CAW MAR 2023	REVISED AS-BUILT	
CHECKED	KCH MAR 2023		

All work done in accordance with the City of Port Orchard Public Works Engineering Standards and Specifications in effect on the date shown above, and supplemented by Project Provisions.



POTTERY AVE NON-MOTORIZED IMPROVEMENTS

COVER SHEET

PLAN NO.
CV1

SHEET
1 OF 51

GENERAL NOTES:

- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH ALL CURRENTLY ADOPTED WSDOT AND APWA SPECIFICATIONS AND PLANS, AND THE CITY OF PORT ORCHARD MUNICIPAL CODE, THE CURRENTLY ADOPTED CITY OF PORT ORCHARD PUBLIC WORKS ENGINEERING STANDARDS AND SPECIFICATIONS, AND THE CURRENTLY ADOPTED SURFACE WATER DESIGN MANUAL.
- THE DESIGN ELEMENTS WITHIN THESE PLANS HAVE BEEN REVIEWED ACCORDING TO THE PORT ORCHARD DESIGN STANDARDS. SOME ELEMENTS MAY HAVE BEEN OVERLOOKED OR MISSED BY THE CITY OF PORT ORCHARD CITY ENGINEER. ANY DEVIATION FROM ADOPTED STANDARDS IS NOT ALLOWED UNLESS SPECIFICALLY APPROVED BY THE CITY OF PORT ORCHARD CITY ENGINEER, PRIOR TO CONSTRUCTION.
- APPROVAL OF THESE ENGINEERING PLANS SUCH AS FOR ROADS, GRADING, OR DRAINAGE DOES NOT CONSTITUTE AN APPROVAL OF ANY OTHER DESIGN (E.G., WATER, SEWER, GAS, ELECTRICAL, ETC.).
- BEFORE ANY CONSTRUCTION OR DEVELOPMENT ACTIVITY, A PRECONSTRUCTION MEETING MUST BE HELD BETWEEN THE CITY OF PORT ORCHARD PUBLIC WORKS DEPARTMENT AND THE CONTRACTOR.
- PROOF OF LIABILITY INSURANCE SHALL BE SUBMITTED TO THE CITY OF PORT ORCHARD PRIOR TO THE PRECONSTRUCTION MEETING..
- A COPY OF THESE APPROVED PLANS MUST BE ON THE JOB SITE WHENEVER CONSTRUCTION IS IN PROGRESS.
- CONSTRUCTION NOISE SHALL COMPLY WITH THE CURRENT POMC SECTION 9.24.050.
- FRANCHISED UTILITIES OR OTHER INSTALLATIONS THAT ARE NOT SHOWN ON THESE APPROVED PLANS SHALL NOT BE CONSTRUCTED UNLESS AN APPROVED SET OF PLANS IS SUBMITTED TO THE CITY OF PORT ORCHARD PRIOR TO CONSTRUCTION.
- THE VERTICAL DATUM SHALL BE NAVD 1988 AND THE HORIZONTAL DATUM SHALL BE NAD 1983 HARN STATE PLANE WASHINGTON NORTH FIPS 4601 FEET.
- ALL UTILITY TRENCHES SHALL BE BACKFILLED AND COMPACTED IN ACCORDANCE WITH THE CITY OF PORT ORCHARD STANDARDS.
- ALL ROADWAY SUBGRADE SHALL BE BACKFILLED, COMPACTED TO 95% MAXIMUM DENSITY, AND PREPARED FOR SURFACING IN ACCORDANCE WITH WSDOT STANDARD SPECIFICATION 2-06.3.
- OPEN CUTTING OF EXISTING ROADWAYS IS NOT ALLOWED UNLESS SPECIFICALLY APPROVED BY THE CITY OF PORT ORCHARD AND NOTED ON THESE APPROVED PLANS. ANY OPEN CUT SHALL BE RESTORED IN ACCORDANCE WITH THE CITY OF PORT ORCHARD STANDARD SPECIFICATIONS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ADEQUATE SAFEGUARDS, SAFETY DEVICES, PROTECTIVE EQUIPMENT, FLAGGERS, AND ANY OTHER NEEDED ACTIONS TO PROTECT THE LIFE, HEALTH, AND SAFETY OF THE PUBLIC, AND TO PROTECT PROPERTY IN CONNECTION WITH THE PERFORMANCE OF WORK COVERED BY THE CONTRACTOR. ANY WORK WITHIN THE TRAVELED RIGHT-OF-WAY THAT MAY INTERRUPT NORMAL TRAFFIC FLOW SHALL REQUIRE AT LEAST ONE FLAGGER FOR EACH LANE OF TRAFFIC AFFECTED. "TRAFFIC CONTROL" RELATED SECTIONS OF THE WSDOT STANDARD SPECIFICATIONS SHALL APPLY IN THEIR ENTIRETY. TRAFFIC CONTROL PLANS SHALL FOLLOW THE CURRENTLY ADOPTED MUTCD MANUAL AS APPLICABLE.
- TO PROTECT SIGNIFICANT TREES FROM THE IMPACTS OF THE PROPOSED DEVELOPMENT, THE APPLICANT SHALL PROVIDE THE BEST PROTECTION FOR SIGNIFICANT TREES PER THE REGULATIONS. AT A MINIMUM, ANY SIGNIFICANT TREES TO BE RETAINED SHALL BE FENCED TWO FEET OUTWARD FROM THE IDENTIFIED DRIP LINE. TREES THAT SUSTAIN DAMAGE DURING CONSTRUCTION SHALL BE REPLACED PURSUANT TO POMC. A REPRESENTATIVE OF THE CITY OF PORT ORCHARD DCD STAFF SHALL VERIFY PROTECTIVE FENCING PLACEMENT PER THIS CONDITION PRIOR TO ISSUANCE OF A NOTICE TO PROCEED FOR GRADING AND CLEARING. THE CITY SHALL INSPECT TO EVALUATE THE CONDITION OF RETAINED TREES AND ANY AND ALL CORRECTIONS WILL BE REQUIRED TO BE COMPLETED PRIOR TO A FINAL INSPECTION AND RELEASE OF ANY POST FINANCIAL GUARANTEES FOR THE SITE.

WATER GENERAL NOTES:

- ALL WORK SHALL CONFORM TO THE CURRENT CITY OF PORT ORCHARD PUBLIC WORKS ENGINEERING STANDARDS AND SPECIFICATIONS.
- FITTINGS SHALL BE MECHANICAL JOINT CONFORMING TO AWWA C-110, C-111, OR C-153 AND SHALL BE MEGA-LUG SERIES 1100, AS MANUFACTURED BY EBBA IRON, OR APPROVED EQUAL. PIPE SHALL BE TYTON JOINT PIPE WITH FIELD LOK GASKETS, OR APPROVED EQUAL. AN ALTERNATIVE RESTRAINED JOINT SYSTEM MAY BE SUBSTITUTED FOR THE ABOVE ITEMS.
- ALL PIPE FITTINGS NOT TO BE DISINFECTED IN PLACE PER AWWA C-651 SHALL BE SWABBED WITH 1% AVAILABLE CHLORINE SOLUTION PRIOR TO INSTALLATION.
- ALL WATER MAINS AND APPURTENANCES SHALL BE TESTED UNDER A HYDROSTATIC PRESSURE EQUAL TO 250 PSI FOR 1-HOUR. WATER SERVICE LINES WILL BE VISUALLY INSPECTED FOR LEAKAGE. ALL PUMPS, GAUGES, PLUGS, SADDLES, CORPORATION STOPS, BACKFLOW PREVENTION DEVICES, MISCELLANEOUS HOSE AND PIPING, AND OTHER EQUIPMENT SHOWING ON THE CONSTRUCTION PLANS AND THAT ARE NECESSARY FOR PERFORMING THE TEST SHALL BE FURNISHED AND OPERATED BY THE CONTRACTOR. THE PIPELINE TRENCH SHALL BE BACKFILLED SUFFICIENTLY TO PREVENT MOVEMENT OF THE PIPE UNDER PRESSURE. ALL REQUIRED THRUST BLOCKS SHALL BE IN PLACE AND SUFFICIENTLY CURED TO REACH DESIGN STRENGTH BEFORE TESTING.
- AFTER DISINFECTING THE WATER MAIN, DISPOSE OF CHLORINATED WATER BY DISCHARGING TO THE NEAREST OPERATING SANITARY SEWER.
- THE NEW WATER MAIN SHALL BE CONNECTED TO THE EXISTING SYSTEM ONLY AFTER NEW MAIN IS PRESSURE TESTED, FLUSHED, DISINFECTED, AND SATISFACTORY BACTERIOLOGICAL SAMPLE RESULTS ARE OBTAINED AND RECEIVED BY PUBLIC WORKS STAFF.
- WATER MAIN SHUTDOWNS SHALL BE COORDINATED WITH THE PUBLIC WORKS OPERATIONAL STAFF FOR PREFERRED TIMING DURING FLOW CONTROL CONDITIONS. WATER MAIN SHUTDOWNS SHALL NOT BE SCHEDULED TO TAKE PLACE ON FRIDAYS, OR ON THE FIVE DAYS BEFORE NOR ONE DAY AFTER A CITY HOLIDAY, UNLESS OTHERWISE APPROVED BY PUBLIC WORKS.
- WHEN EXCAVATING AROUND CHARGED WATER MAIN THE CONTRACTOR MUST EXERCISE CARE IN VICINITY OF THRUST BLOCKS THAT ARE PLACED AT ANY BENDS, TEES, OR DEAD ENDS OF WATER MAINS TO AVOID UNDERMINING THE SOIL SUPPORT FOR THE THRUST BLOCKING.
- DEFLECT THE WATER MAIN ABOVE OR BELOW EXISTING UTILITIES AS REQUIRED TO MAINTAIN 3 FT MINIMUM COVER AND 12-INCH MINIMUM VERTICAL CLEARANCE BETWEEN UTILITIES UNLESS OTHERWISE SPECIFIED.
- WHERE A NEW PIPE CLEARS AN EXISTING OR NEW UTILITY BY 12-INCHES OR LESS, AN ETHAFOAM PAD MUST BE PLACED AS A CUSHION BETWEEN UTILITIES.
- IF DEFLECTING PIPE JOINTS FOR CURVES, HORIZONTAL AND VERTICAL ANGLE POINTS MUST BE CONSTRUCTED BY DEFLECTING A MAXIMUM ONE-HALF OF THE MANUFACTURER'S ALLOWABLE JOINT DEFLECTION FOR PIPE AND FITTINGS, UNLESS OTHERWISE NOTED.
- THE WATER MAIN SHALL BE INSTALLED ONLY AFTER THE ROADWAY SUBGRADE IS BACKFILLED, GRADED, AND COMPACTED IN CUT AND FILL AREAS.
- ALL RESIDENTIAL SERVICES SHALL BE INSTALLED PER STANDARD DETAILS 860 OR 861 UNLESS OTHERWISE SPECIFIED.
- UNIFORM PLUMBING CODE REQUIRES THE INSTALLATION OF PRIVATELY OWNED AND OPERATED PRESSURE REDUCING VALVES WHERE THE OPERATING PRESSURE EXCEEDS 80 PSI.
- ABANDONMENT OF EXISTING WATER SERVICES SHALL BE ACCOMPLISHED AS FOLLOWS:
 - REMOVE EXISTING SERVICE SADDLE FROM WATER MAIN AND REPLACE WITH NEW STAINLESS STEEL REPAIR BAND, ROMAC SS2, FORD SERVICE SADDLE FC101, CC THREADED SADDLE AND A CC THREAD BRASS PLUG, OR APPROVED EQUAL (WILL NOT BE REQUIRED WHEN WATER MAIN IS TO BE ABANDONED).
 - REMOVE AND DISPOSE OF EXISTING SETTER AND METER BOX.
 - CAP OR CRIMP (IF COPPER) EXISTING SERVICE LINE TO BE ABANDONED IN PLACE, EACH END.
 - RETURN EXISTING METER TO PUBLIC WORKS.
- ABANDONMENT OF EXISTING WATER MAINS SHALL BE ACCOMPLISHED AS FOLLOWS:
 - DI PIPE: MECHANICAL JOINT PLUG, CAP, OR BLIND FLANGE TO BE INSTALLED ON BOTH ENDS.
 - ALL OTHER PIPE: FILLED WITH CDF AND MECHANICAL JOINT PLUG, CAP, OR BLIND FLANGE TO BE INSTALLED ON BOTH ENDS.
- AVOID CROSSING WATER OR SEWER MAINS AT HIGHLY ACUTE ANGLES. THE SMALLEST ANGLE MEASURE BETWEEN UTILITIES SHOULD BE 45 TO 90 DEGREES.
- WHERE WATER MAIN CROSSES ABOVE OR BELOW SANITARY SEWER, ONE FULL LENGTH OF WATER PIPE SHALL BE CENTERED FOR MAXIMUM JOINT SEPARATION.
- AT POINTS WHERE EXISTING THRUST BLOCKING IS FOUND, MINIMUM CLEARANCE BETWEEN THE CONCRETE BLOCKING AND OTHER BURIED UTILITIES OR STRUCTURES SHALL BE 5 FEET.

SEWER GENERAL NOTES:

- ALL WORK SHALL CONFORM TO THE CURRENT CITY OF PORT ORCHARD PUBLIC WORKS ENGINEERING STANDARDS AND SPECIFICATIONS.
- ALL NEW MANHOLES SHALL BE INSTALLED WITH A GU MANHOLE BASE LINER, OR EQUAL.
- TOPS OF MANHOLES WITHIN PUBLIC RIGHTS-OF-WAY SHALL NOT BE ADJUSTED TO FINAL GRADE UNTIL JUST PRIOR TO PAVING.
- ALL MANHOLES IN UNPAVED AREAS SHALL INCLUDE A CONCRETE SEAL AROUND ADJUSTING RINGS PER STANDARD DETAIL 922.
- THE CONTRACTOR SHALL ADJUST ALL MANHOLE RIMS TO BE FLUSH WITH FINAL FINISHED GRADES, UNLESS OTHERWISE SHOWN.
- ALL SEWER MAIN EXTENSIONS WITHIN THE PUBLIC RIGHT-OF-WAY OR IN EASEMENTS MUST BE "STAKED" BY A SURVEYOR LICENSED IN WASHINGTON STATE FOR "LINE AND GRADE" PRIOR TO STARTING CONSTRUCTION.
- THE CONTRACTOR SHALL INSTALL, AT ALL CONNECTIONS TO EXISTING DOWNSTREAM MANHOLES, SCREENS OR PLUGS TO PREVENT FOREIGN MATERIALS FROM ENTERING EXISTING SANITARY SEWER SYSTEM. SCREENS OR PLUGS SHALL REMAIN IN PLACE THROUGHOUT THE DURATION OF CONSTRUCTION AND SHALL BE REMOVED ALONG WITH COLLECTED DEBRIS AT THE TIME OF FINAL INSPECTION AND IN THE PRESENCE OF A REPRESENTATIVE FROM PUBLIC WORKS.
- THE CONTRACTOR SHALL MAINTAIN A MINIMUM OF TEN FEET (10') HORIZONTAL SEPARATION BETWEEN ALL WATER AND SEWER LINES. ANY CONFLICTS SHALL BE REPORTED TO PUBLIC WORKS AND THE ENGINEER PRIOR TO CONSTRUCTION.
- THE CONTRACTOR SHALL ENSURE AND VERIFY THAT NO CONFLICTS EXIST BETWEEN SANITARY SEWER LINES AND PROPOSED OR EXISTING UTILITIES PRIOR TO CONSTRUCTION.
- MINIMUM COVER OVER SEWER PIPE SHALL BE FIVE FEET, UNLESS OTHERWISE SHOWN.
- AVOID CROSSING WATER OR SEWER MAINS AT HIGHLY ACUTE ANGLES. THE SMALLEST ANGLE MEASURE BETWEEN UTILITIES SHOULD BE 45 TO 90 DEGREES.
- AT POINTS WHERE EXISTING THRUST BLOCKING IS FOUND, MINIMUM CLEARANCE BETWEEN THE CONCRETE BLOCKING AND OTHER BURIED UTILITIES OR STRUCTURES SHALL BE 5 FEET.
- ALL SEWER MAINS AND APPURTENANCES SHALL BE AIR TESTED PER SECTION 7-17.3(2)F OF THE WSDOT STANDARD SPECIFICATIONS. ALL TESTING EQUIPMENT SHOWN ON THE CONSTRUCTION PLANS AND THAT ARE NECESSARY FOR PERFORMING THE TEST SHALL BE FURNISHED AND OPERATED BY THE CONTRACTOR. THE PIPELINE TRENCH SHALL BE COMPACTED PRIOR TO TESTING SEWER LINES.
- ALL TESTING AND CONNECTIONS TO EXISTING MAINS SHALL BE DONE IN THE PRESENCE OF PUBLIC WORKS STAFF.
- THE CONTRACTOR SHALL PROVIDE COLOR CCTV EQUIPMENT INCLUDING TELEVISION CAMERAS, A TELEVISION MONITOR, CABLES, POWER SOURCES, SIDE-LAUNCH CAPABLE IF NECESSARY, AND OTHER EQUIPMENT. FOCAL DISTANCE SHALL BE ADJUSTABLE THROUGH A RANGE FROM 6 INCHES TO INFINITY. THE CCTV EQUIPMENT SHALL INCLUDE A DISTANCE MEASURING INSTRUMENT (DMI) TO MEASURE THE HORIZONTAL DISTANCE TRAVELED BY THE CAMERA. THE DMI READOUT SHALL APPEAR CONTINUOUSLY ON THE VIDEO PRODUCED BY THE INSPECTION AND SHALL BE ACCURATE TO LESS THAN 1 PERCENT ERROR OVER THE LENGTH OF THE SECTION OF PIPELINE BEING INSPECTED. FOR STORM OR SANITARY SEWERS, THE LENGTH IS MEASURED FROM THE CENTERLINE OF THE MANHOLE OR CATCH BASIN TO THE CENTERLINE OF THE NEXT MANHOLE OR CATCH BASIN.

ADA GENERAL NOTES:

- MINIMUM RAMP LENGTH FOR TYPE PERPENDICULAR RAMPS SHALL BE 4.0 FEET, WITH A RAMP RUNNING SLOPE NOT TO EXCEED 7.5%. RAMP SHALL BE LENGTHENED TO ACHIEVE 7.5% OR LESS SLOPE TO A MAXIMUM LENGTH OF 8 FEET. THE LENGTH OF THE RAMP MUST ALLOW FOR A MINIMUM 4 FOOT TURNING SPACE BEHIND THE RAMP. THE LENGTH AND RUNNING SLOPE OF THE RAMP MUST BE APPROVED BY THE ENGINEER PRIOR TO PLACING CEMENT CONCRETE.
- THE INTENDED CROSS SLOPE FOR ALL RAMPS AND ALL TURNING SPACES IS 1.5%. DUE TO EXISTING GUTTER AND ROADWAY SLOPES, ACHIEVING 1.5% MAY NOT BE POSSIBLE. CONTRACTOR SHALL CONSTRUCT WITH CROSS SLOPE AS CLOSE TO 1.5% (OR LESS) AS POSSIBLE WITHIN EXISTING CONDITIONS. MINIMUM CROSS SLOPES SHALL BE 0.5%. CROSS SLOPE MUST BE APPROVED BY THE ENGINEER PRIOR TO PLACING CEMENT CONCRETE.
- AVOID PLACING JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.
- REPLACE SIDEWALK PANEL ADJACENT TO CURB RAMPS FOR A MINIMUM LENGTH OF 5 FEET, OR TO NEAREST JOINT BEYOND 5 FEET UNLESS NOTED OTHERWISE. THE REPLACEMENT LENGTH SHALL BE SUFFICIENT TO PROVIDE A SMOOTH RUNNING SLOPE AND CROSS SLOPE TRANSITION BETWEEN NEW AND EXISTING SIDEWALK. THE REPLACEMENT LENGTH AND MATCH IN POINT MUST BE APPROVED BY THE ENGINEER PRIOR TO PLACING CEMENT CONCRETE.
- BACK OF WALK LIMITS VARY FOR EACH CURB RAMP LOCATION, SEE PAVING PLANS FOR PLAN VIEW FOR EACH CURB RAMP.

DRAINAGE GENERAL NOTES:

- ALL STORM PIPE AND APPURTENANCES SHALL BE LAID IN ACCORDANCE TO PORT ORCHARD DESIGN AND CONSTRUCTION STANDARDS. THIS SHALL INCLUDE LEVELING AND COMPACTING THE TRENCH BOTTOM, THE TOP OF THE FOUNDATION MATERIAL, AND ANY REQUIRED BEDDING TO A UNIFORM GRADE SO THAT THE ENTIRE DRAINAGE FACILITY IS SUPPORTED BY A UNIFORMLY DENSE UNYIELDING BASE.
- ALL STORM PIPE SHALL BE SUBJECT TO A LOW-PRESSURE AIR TEST IN ACCORDANCE WITH WSDOT STANDARD SPECIFICATION 7-04.3(1)F AND A VIDEO INSPECTION IN ACCORDANCE WITH THE PORT ORCHARD DESIGN STANDARDS.
- STORM PIPE COVER MEASURED FROM THE FINISHED GRADE ELEVATION TO THE TOP OF THE OUTSIDE SURFACE OF THE PIPE, SHALL BE 2 FEET MINIMUM, UNLESS AUTHORIZED BY THE CITY OF PORT ORCHARD CITY ENGINEER UNDER THE FOLLOWING CIRCUMSTANCES:
 - UNDER DRIVEWAYS THE PIPE COVER MAY BE REDUCED TO 1 FOOT MINIMUM IF THE 2 FEET CANNOT BE ACHIEVED AND THE COVER IS CONSISTENT WITH THE PIPE MANUFACTURER'S RECOMMENDATIONS.
 - IN AREAS NOT SUBJECT TO VEHICULAR LOADS, SUCH AS LANDSCAPE PLANTERS AND YARDS, THE PIPE COVER MAY BE REDUCED TO 1 FOOT MINIMUM.
 - IF DUCTILE IRON PIPE OR C900 PIPE IS USED, THE PIPE COVER MAY BE REDUCED TO 1 FOOT MINIMUM.
- ANY DRAINAGE STRUCTURE, SUCH AS A CATCH BASIN OR A MANHOLE, NOT RECEIVING SURFACE RUNOFF AND NOT LOCATED WITHIN A TRAVELED ROADWAY OR SIDEWALK SHALL HAVE A LOCAL LOCKING LID.
- ALL CATCH BASIN GRATES SHALL CONFORM TO THE CURRENTLY ADOPTED STORMWATER MANAGEMENT MANUAL AND THE WSDOT STANDARD PLANS WHEN LOCATED WITHIN THE RIGHT-OF-WAY, AND SHALL INCLUDE A COMBINATION INLET FRAME (OPEN-CURB-FACE FRAME), WHEN LOCATED IN A SUMP CONDITION OR BEFORE AN INTERSECTION WITH A 4% GRADE OR GREATER. ALL CATCH BASINS WITHIN THE GUTTER LINE SHALL BE INSTALLED IN ACCORDANCE WITH THE CITY OF PORT ORCHARD STANDARD DETAILS AS APPLICABLE. MAXIMUM CATCH BASIN HEIGHT FROM FINISHED GRADE TO PIPE INVERT SHALL BE PER THE APPLICABLE DETAIL.
- FOR ANY CURB GRADE LESS THAN 0.8% (0.0080 FT/FT), INCLUDING CURB RETURNS, A PROFESSIONAL LAND SURVEYOR, CURRENTLY LICENSED IN THE STATE OF WASHINGTON, SHALL VERIFY THAT THE CURB FORMS OR STRING LINES ARE AT THE GRADES NOTED ON THE APPROVED PLANS PRIOR TO PLACEMENT OF CONCRETE. THE CONTRACTOR IS RESPONSIBLE FOR SURVEY COORDINATION AND COSTS.
- FOR ANY DRAINAGE PIPE GRADE LESS THAN 0.5% (0.0050 FT/FT), A PROFESSIONAL LAND SURVEYOR, LICENSED IN THE STATE OF WASHINGTON, SHALL VERIFY THAT THE AS-BUILT PIPE MATCHES THE GRADES NOTED ON THE APPROVED PLANS PRIOR TO COMPLETION OF SUBGRADE. THE CONTRACTOR IS RESPONSIBLE FOR SURVEY COORDINATION AND COSTS.

EROSION AND SEDIMENT CONTROL GENERAL NOTES:

- APPROVAL OF THESE TEMPORARY EROSION AND SEDIMENT CONTROL (TESC) PLANS DOES NOT CONSTITUTE AN APPROVAL OF PERMANENT ROAD OR DRAINAGE DESIGN (E.G., SIZE AND LOCATION OF ROADS, PIPES, RESTRICTORS, CHANNELS, RETENTION FACILITIES, UTILITIES, ETC.).
- THE IMPLEMENTATION OF THESE TESC PLANS AND THE CONSTRUCTION MAINTENANCE, REPLACEMENT, AND UPGRADING OF THESE TESC FACILITIES IS THE RESPONSIBILITY OF THE APPLICANT/CESCL UNTIL ALL CONSTRUCTION IS APPROVE.
- THE BOUNDARIES OF THE CLEARING LIMITS SHALL BE CLEARLY FLAGGED BY A CONTINUOUS LENGTH OF FENCING PRIOR TO CONSTRUCTION. DURING THE CONSTRUCTION PERIOD, NO DISTURBANCE BEYOND THE CLEARING LIMITS SHALL BE PERMITTED. THE CLEARING LIMITS SHALL BE MAINTAINED BY THE APPLICANT/CESCL FOR THE DURATION OF CONSTRUCTION.
- THE TESC FACILITIES SHOWN ON THESE PLANS ARE THE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS. DURING THE CONSTRUCTION PERIOD, THESE TESC FACILITIES SHALL BE UPGRADED AS NEEDED FOR UNEXPECTED STORM EVENTS AND MODIFIED TO ACCOUNT FOR CHANGING SITE CONDITIONS (E.G., ADDITIONAL COVER MEASURES, ADDITIONAL SUMP PUMPS, RELOCATION OF DITCHES AND SILT FENCES, ADDITIONAL PERIMETER PROTECTION, ETC.), AS DIRECTED BY THE CITY ENGINEER.
- THE TESC FACILITIES SHALL BE INSPECTED DAILY BY THE APPLICANT/CESCL AND MAINTAINED TO ENSURE CONTINUED PROPER FUNCTIONING. WRITTEN RECORDS SHALL BE KEPT OF WEEKLY REVIEWS OF THE TESC FACILITIES AND SAMPLES TAKEN DURING THE WET SEASON (OCTOBER 1 TO APRIL 30) AND OF MONTHLY REVIEWS DURING THE DRY SEASON (MAY 1 TO SEPTEMBER 30).
- ANY AREAS OF EXPOSED SOILS, INCLUDING ROADWAY EMBANKMENTS, THAT WILL NOT BE DISTURBED FOR TWO DAYS DURING THE WET SEASON OR SEVEN DAYS DURING THE DRY SEASON SHALL BE IMMEDIATELY STABILIZED WITH THE APPROVED TESC METHODS (E.G., SEEDING, MULCHING, PLASTIC COVERING, ETC.).
- ANY AREA NEEDING TESC MEASURES NOT REQUIRING IMMEDIATE ATTENTION SHALL BE ADDRESSED WITHIN SEVEN (7) DAYS.
- AT NO TIME SHALL MORE THAN ONE (1) FOOT OF SEDIMENT BE ALLOWED TO ACCUMULATE WITHIN A CATCH BASIN, ALL CATCH BASINS AND CONVEYANCE LINES SHALL BE CLEANED PRIOR TO FINAL INSPECTION. THE CLEANING OPERATION SHALL NOT FLUSH SEDIMENT-LADEN WATER INTO A DOWNSTREAM SYSTEM.
- PRIOR TO THE BEGINNING OF THE WET SEASON (OCTOBER 1), ALL DISTURBED AREAS SHALL BE REVIEWED TO IDENTIFY WHICH AREAS CAN BE SEEDED IN PREPARATION FOR THE WINTER RAINS. DISTURBED AREAS SHALL BE SEEDED WITHIN ONE WEEK OF THE BEGINNING OF THE WET SEASON. A MAP OF THOSE AREAS TO BE SEEDED AND THOSE TO REMAIN UNCOVERED SHALL BE SUBMITTED TO THE CITY OF PORT ORCHARD CITY ENGINEER. THE INSPECTOR CAN REQUIRE SEEDING OF ADDITIONAL AREAS IN ORDER TO PROTECT SURFACE WATERS, ADJACENT PROPERTIES, OR DRAINAGE FACILITIES.
- USE OF STRAW FOR EROSION AND SEDIMENTATION CONTROL IS NOT ALLOWED AS A BMP FOR MAJOR PROJECTS.

RECOMMENDED CONSTRUCTION SEQUENCE:

- CONDUCT A PRE-CONSTRUCTION MEETING WITH THE PUBLIC WORKS DEPARTMENT.
- POST "NOTICE OF CONSTRUCTION ACTIVITY" SIGN WITH NAME AND PHONE NUMBER OF THE CESCL.
- FENCE CLEARING LIMITS AND SIGNIFICANT TREES.
- INSTALL CATCH BASIN PROTECTION.
- INSTALL PERIMETER PROTECTION (SILT FENCE, BRUSH BARRIER, ETC.).
- MAINTAIN EROSION CONTROL MEASURES IN ACCORDANCE WITH CITY OF PORT ORCHARD STANDARDS AND MANUFACTURER'S RECOMMENDATIONS.
- RELOCATE SURFACE WATER CONTROLS AND EROSION CONTROL MEASURES, OR INSTALL NEW MEASURES TO ENSURE THAT AS SITE CONDITIONS CHANGE, THE EROSION AND SEDIMENT CONTROL IS ALWAYS IN ACCORDANCE WITH THE CITY OF PORT ORCHARD EROSION AND SEDIMENT CONTROL STANDARDS.
- COVER ALL AREAS THAT WILL BE IDLE FOR MORE THAN SEVEN DAYS DURING THE DRY SEASON OR TWO DAYS DURING THE WET SEASON WITH WOOD FIBER MULCH, COMPOST, PLASTIC SHEETING, OR EQUIVALENT.
- STABILIZE ALL AREAS THAT REACH FINAL GRADE WITHIN SEVEN DAYS.
- SEED OR SOD ANY AREAS TO REMAIN IDLE UNTIL SEED OR SOD IS ESTABLISHED.
- UPON COMPLETION OF THE PROJECT, ALL DISTURBED AREAS MUST BE STABILIZED AND BEST MANAGEMENT PRACTICES REMOVED, IF APPROPRIATE.

DESIGN CHECK/REVIEW/DATE	REVISION TYPE/REVISIONS
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Engineer's Stamp

CITY OF PORT ORCHARD CAPITAL PROJECTS
216 PROSPECT STREET, PORT ORCHARD, WA 98366
PHONE: 360.876.4991

NAME OR INITIALS AND DATE	NAME OR INITIALS AND DATE
DESIGNED CAW MAR 2023 CHECKED KCH MAR 2023	PROJECT MANAGER: K. CHRIS HAMMER REVIEWED: MAR 2023
DRAWN CAW MAR 2023 CHECKED KCH MAR 2023	REVISED AS-BUILT

All work done in accordance with the City of Port Orchard Public Works Engineering Standards and Specifications in effect on the date shown above, and supplemented by Project Provisions.

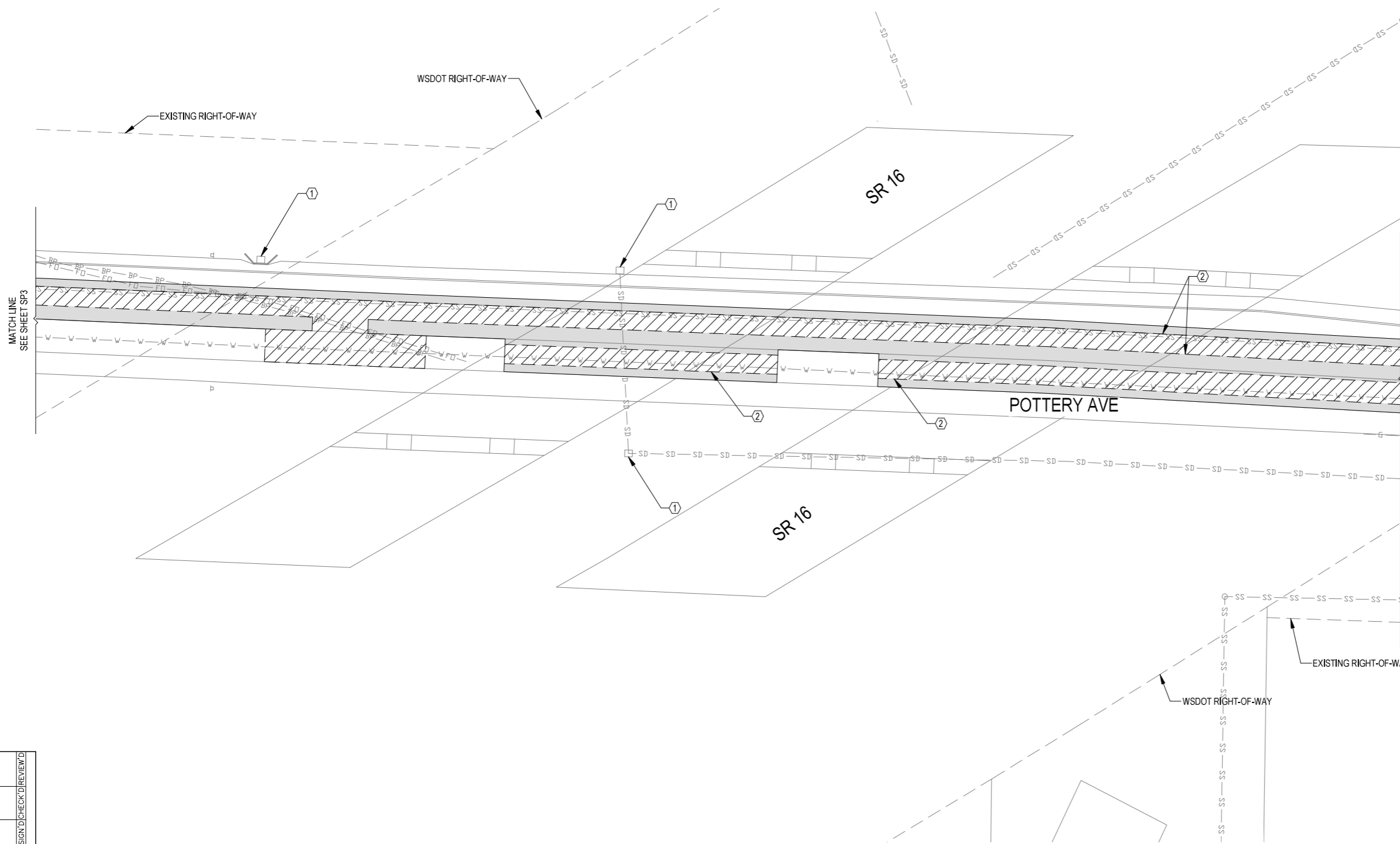


Exhibit "C" Page 2 of 15

POTTERY AVE NON-MOTORIZED IMPROVEMENTS
GENERAL NOTES

PLAN NO.
GN1
SHEET
2 OF 51

SEC. 2 & 3 T.23N. R.1E. W.M.



- GENERAL NOTES:**
1. STORM DRAIN INLET PROTECTION PER WSDOT STD. PLAN I-40.20 SHALL BE INSTALLED ON ALL NEW CATCH BASINS AT THE TIME OF INSTALLATION AND IN ALL EXISTING CATCH BASINS BEFORE COMMENCING WORK PER THESE PLANS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN EXISTING HORIZONTAL AND VERTICAL INFORMATION REQUIRED TO PLACE CURB AND GUTTER IN THE CORRECT LOCATION.
 2. CLEARING AND GRUBBING LIMITS SHALL INCLUDE ALL NON-HARDSCAPED LOCATIONS BETWEEN THE EXISTING EDGE OF PAVEMENT AND THE DAYLIGHT WITH EXISTING GROUND. THE LIMITS MAY EXTEND TO THE RIGHT-OF-WAY, OR AS DIRECTED BY THE ENGINEER. TREES WITHIN THE CLEARING AND GRUBBING LIMITS SHALL BE PROTECTED UNLESS SHOWN ON THE PLANS AS TO BE REMOVED.
 3. TREES AND THEIR ROOT STRUCTURES SHALL BE REMOVED IN A MANNER THAT IS NOT DESTRUCTIVE TO THE TREES THAT ARE TO REMAIN.
 4. THE CONTRACTOR SHALL KEEP A MINIMUM 4 FOOT WIDE ACCESSIBLE PATHWAY AT ALL TIMES THROUGH THE SITE OR AS DIRECTED BY THE ENGINEER.
 5. ADDITIONAL SAWCUT MAY BE REQUIRED FOR UTILITIES AND/OR PAVING WORK.
 6. ALL ITEMS SHALL BE PROTECTED AND MAINTAINED UNLESS OTHERWISE NOTED.
 7. REMOVE EXISTING IRRIGATION HEADS, VALVES, AND ALL OTHER RELATED IRRIGATION EQUIPMENT AS NECESSARY FOR CONSTRUCTION WORK. CAP EXISTING IRRIGATION LINES AT RIGHT-OF-WAY LINE. IRRIGATION SHALL BE REINSTALLED AND DEEMED OPERATIONAL BY COPO MAINTENANCE PERSONNEL PRIOR TO PROJECT ACCEPTANCE.
 8. ALL SIDEWALK MATCH-IN LOCATIONS SHALL PROVIDE A SAWCUT AT THE NEAREST JOINT.
 9. CONTRACTOR SHALL COORDINATE WITH KITSAP TRANSIT ON TEMPORARY BUS STOP LOCATIONS A MINIMUM OF 5 BUSINESS DAYS PRIOR TO BUS STOP IMPACTS.
 10. CONSTRUCTION ENTRANCE SHALL BE INSTALLED PER WSDOT STD. PLAN I-80.10.
 11. STORMWATER AND EROSION CONTROL BMP'S SHALL BE FOLLOWED IN ACCORDANCE WITH THE 2019 STORMWATER MANAGEMENT MANUAL FOR WESTERN WASHINGTON.
 12. UTILITY TRENCHES SHALL CONFORM TO COPO STD. DETAIL 404. SEE UT PLANS FOR FURTHER INFORMATION.
 13. CONTRACTOR SHALL PROTECT ALL SURVEY MONUMENTS AND SHALL COMPLY WITH RCW 58.09.130 AND WAC 332-120-040 IF ANY MONUMENT IS TO BE DISTURBED.
 14. CONTRACTOR SHALL CALL ONE-CALL BEFORE ANY EXCAVATION BEGINS AT 811.
 15. EXISTING PAVEMENT MARKINGS AND SIGNS THAT CONFLICT WITH THE CHANNELIZATION AND SIGNING PLAN SHALL BE REMOVED. SEE CH PLANS FOR SIGN REMOVALS.
 16. SEE UT PLANS FOR UTILITY RELATED REMOVALS.
 17. HIGH VISIBILITY FENCE AND HIGH VISIBILITY SILT FENCE SHALL BE INSTALLED PER WSDOT STD. PLANS I-10.10 AND I-30.17 AS DIRECTED BY THE ENGINEER.

- CONSTRUCTION NOTES:**
- ① INSTALL INLET PROTECTION PER WSDOT STD. PLAN I-40.20
 - ② SAWCUT
 - ③ EXISTING UTILITY POLE TO BE RELOCATED BY OTHERS (PSE)
 - ④ PROTECT AND MAINTAIN EXISTING UTILITY POLE
 - ⑤ REMOVE EXISTING CURB AND GUTTER (INCL. IN ROADWAY EXCAVATION INCL. HAUL)
 - ⑥ REMOVE EXISTING CURB (INCL. IN ROADWAY EXCAVATION INCL. HAUL)
 - ⑦ PROTECT AND MAINTAIN EXISTING POWER PEDESTAL
 - ⑧ REMOVE PAINT LINE
 - ⑨ REMOVE PLASTIC CROSSWALK LINE
 - ⑩ REMOVE EXISTING SIDEWALK (INCL. IN ROADWAY EXCAVATION INCL. HAUL).
 - ⑪ REMOVE PLASTIC TRAFFIC MARKING
 - ⑫ EXISTING PEDESTAL TO BE RELOCATED BY OTHERS (CENTURYLINK)
 - ⑬ PRESERVE AND PROTECT EXISTING SEPTIC DRAIN FIELD

LEGEND:

- ROADWAY EXCAVATION INCL. HAUL
- PLANING BITUMINOUS PAVEMENT - 2"
- SAWCUTTING



Exhibit "C" Page 3 of 15

DATE	REVISION TYPE	DESIGN CHECK	REVIEW'D

DISCLAIMER: THIS PLAN WAS DEVELOPED FROM CITY OF PORT ORCHARD AND KITSAP COUNTY GIS INFORMATION ALONG WITH AERIAL IMAGERY AND MAY NOT REPRESENT TRUE CONDITIONS IN THE FIELD.

CITY OF PORT ORCHARD CAPITAL PROJECTS
 216 PROSPECT STREET, PORT ORCHARD, WA 98366
 PHONE: 360.876.4991

NAME OR INITIALS AND DATE	NAME OR INITIALS AND DATE
DESIGNED CAW MAR 2023	PROJECT MANAGER: K, CHRIS HAMMER
CHECKED KCH MAR 2023	REVIEWED: MAR 2023
DRAWN CAW MAR 2023	REVISED AS-BUILT
CHECKED KCH MAR 2023	

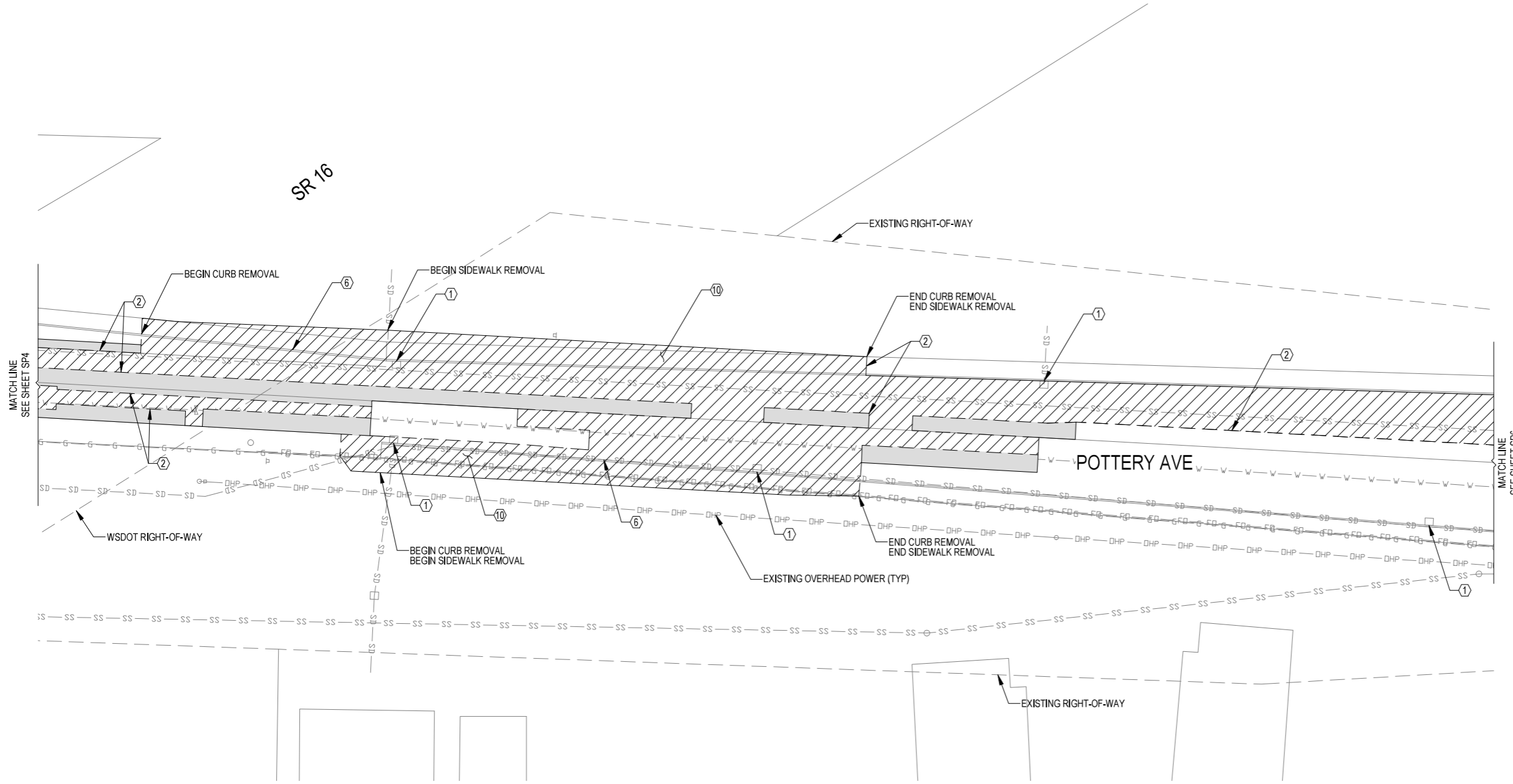
All work done in accordance with the City of Port Orchard Public Works Engineering Standards and Specifications in effect on the date shown above, and supplemented by Project Provisions.



POTTERY AVE NON-MOTORIZED IMPROVEMENTS
 SITE PREPARATION AND TESC PLAN

PLAN NO.
SP4
 SHEET
6 OF 50

SEC. 2 & 3 T.23N. R.1E. W.M.



- GENERAL NOTES:**
1. STORM DRAIN INLET PROTECTION PER WSDOT STD, PLAN I-40.20 SHALL BE INSTALLED ON ALL NEW CATCH BASINS AT THE TIME OF INSTALLATION AND IN ALL EXISTING CATCH BASINS BEFORE COMMENCING WORK PER THESE PLANS.
 2. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN EXISTING HORIZONTAL AND VERTICAL INFORMATION REQUIRED TO PLACE CURB AND GUTTER IN THE CORRECT LOCATION.
 3. CLEARING AND GRUBBING LIMITS SHALL INCLUDE ALL NON-HARDSCAPED LOCATIONS BETWEEN THE EXISTING EDGE OF PAVEMENT AND THE DAYLIGHT WITH EXISTING GROUND. THE LIMITS MAY EXTEND TO THE RIGHT-OF-WAY, OR AS DIRECTED BY THE ENGINEER. TREES WITHIN THE CLEARING AND GRUBBING LIMITS SHALL BE PROTECTED UNLESS SHOWN ON THE PLANS AS TO BE REMOVED.
 4. TREES AND THEIR ROOT STRUCTURES SHALL BE REMOVED IN A MANNER THAT IS NOT DESTRUCTIVE TO THE TREES THAT ARE TO REMAIN.
 5. THE CONTRACTOR SHALL KEEP A MINIMUM 4 FOOT WIDE ACCESSIBLE PATHWAY AT ALL TIMES THROUGH THE SITE OR AS DIRECTED BY THE ENGINEER.
 6. ADDITIONAL SAWCUT MAY BE REQUIRED FOR UTILITIES AND/OR PAVING WORK.
 7. ALL ITEMS SHALL BE PROTECTED AND MAINTAINED UNLESS OTHERWISE NOTED.
 8. REMOVE EXISTING IRRIGATION HEADS, VALVES, AND ALL OTHER RELATED IRRIGATION EQUIPMENT AS NECESSARY FOR CONSTRUCTION WORK. CAP EXISTING IRRIGATION LINES AT RIGHT-OF-WAY LINE. IRRIGATION SHALL BE REINSTALLED AND DEEMED OPERATIONAL BY COPO MAINTENANCE PERSONNEL PRIOR TO PROJECT ACCEPTANCE.
 9. ALL SIDEWALK MATCH-IN LOCATIONS SHALL PROVIDE A SAWCUT AT THE NEAREST JOINT.
 10. CONTRACTOR SHALL COORDINATE WITH KITSAP TRANSIT ON TEMPORARY BUS STOP LOCATIONS A MINIMUM OF 5 BUSINESS DAYS PRIOR TO BUS STOP IMPACTS.
 11. CONSTRUCTION ENTRANCE SHALL BE INSTALLED PER WSDOT STD, PLAN I-80.10.
 12. STORMWATER AND EROSION CONTROL BMP'S SHALL BE FOLLOWED IN ACCORDANCE WITH THE 2019 STORMWATER MANAGEMENT MANUAL FOR WESTERN WASHINGTON.
 13. UTILITY TRENCHES SHALL CONFORM TO COPO STD. DETAIL 404. SEE UT PLANS FOR FURTHER INFORMATION.
 14. CONTRACTOR SHALL PROTECT ALL SURVEY MONUMENTS AND SHALL COMPLY WITH RCW 58.09.130 AND WAC 332-120-040 IF ANY MONUMENT IS TO BE DISTURBED.
 15. CONTRACTOR SHALL CALL ONE-CALL BEFORE ANY EXCAVATION BEGINS AT 811.
 16. EXISTING PAVEMENT MARKINGS AND SIGNS THAT CONFLICT WITH THE CHANNELIZATION AND SIGNING PLAN SHALL BE REMOVED. SEE CH PLANS FOR SIGN REMOVALS.
 17. SEE UT PLANS FOR UTILITY RELATED REMOVALS.
 18. HIGH VISIBILITY FENCE AND HIGH VISIBILITY SILT FENCE SHALL BE INSTALLED PER WSDOT STD. PLANS I-10.10 AND I-30.17 AS DIRECTED BY THE ENGINEER.

- CONSTRUCTION NOTES:**
- ① INSTALL INLET PROTECTION PER WSDOT STD. PLAN I-40.20
 - ② SAWCUT
 - ③ EXISTING UTILITY POLE TO BE RELOCATED BY OTHERS (PSE)
 - ④ PROTECT AND MAINTAIN EXISTING UTILITY POLE
 - ⑤ REMOVE EXISTING CURB AND GUTTER (INCL. IN ROADWAY EXCAVATION INCL. HAUL)
 - ⑥ REMOVE EXISTING CURB (INCL. IN ROADWAY EXCAVATION INCL. HAUL)
 - ⑦ PROTECT AND MAINTAIN EXISTING POWER PEDESTAL
 - ⑧ REMOVE PAINT LINE
 - ⑨ REMOVE PLASTIC CROSSWALK LINE
 - ⑩ REMOVE EXISTING SIDEWALK (INCL. IN ROADWAY EXCAVATION INCL. HAUL).
 - ⑪ REMOVE PLASTIC TRAFFIC MARKING
 - ⑫ EXISTING PEDESTAL TO BE RELOCATED BY OTHERS (CENTURYLINK)
 - ⑬ PRESERVE AND PROTECT EXISTING SEPTIC DRAIN FIELD

- LEGEND:**
- ROADWAY EXCAVATION INCL. HAUL
 - PLANING BITUMINOUS PAVEMENT - 2"
 - SAWCUTTING



Exhibit "C" Page 4 of 15

DATE	REVISION TYPE	DESIGN CHECK	REVIEW

DISCLAIMER: THIS PLAN WAS DEVELOPED FROM CITY OF PORT ORCHARD AND KITSAP COUNTY GIS INFORMATION ALONG WITH AERIAL IMAGERY AND MAY NOT REPRESENT TRUE CONDITIONS IN THE FIELD.

CITY OF PORT ORCHARD CAPITAL PROJECTS
 216 PROSPECT STREET, PORT ORCHARD, WA 98366
 PHONE: 360.876.4991

NAME OR INITIALS AND DATE	NAME OR INITIALS AND DATE
DESIGNED CAW MAR 2023	PROJECT MANAGER: K. CHRIS HAMMER
CHECKED KCH MAR 2023	REVIEWED: MAR 2023
DRAWN CAW MAR 2023	REVISED AS-BUILT
CHECKED KCH MAR 2023	

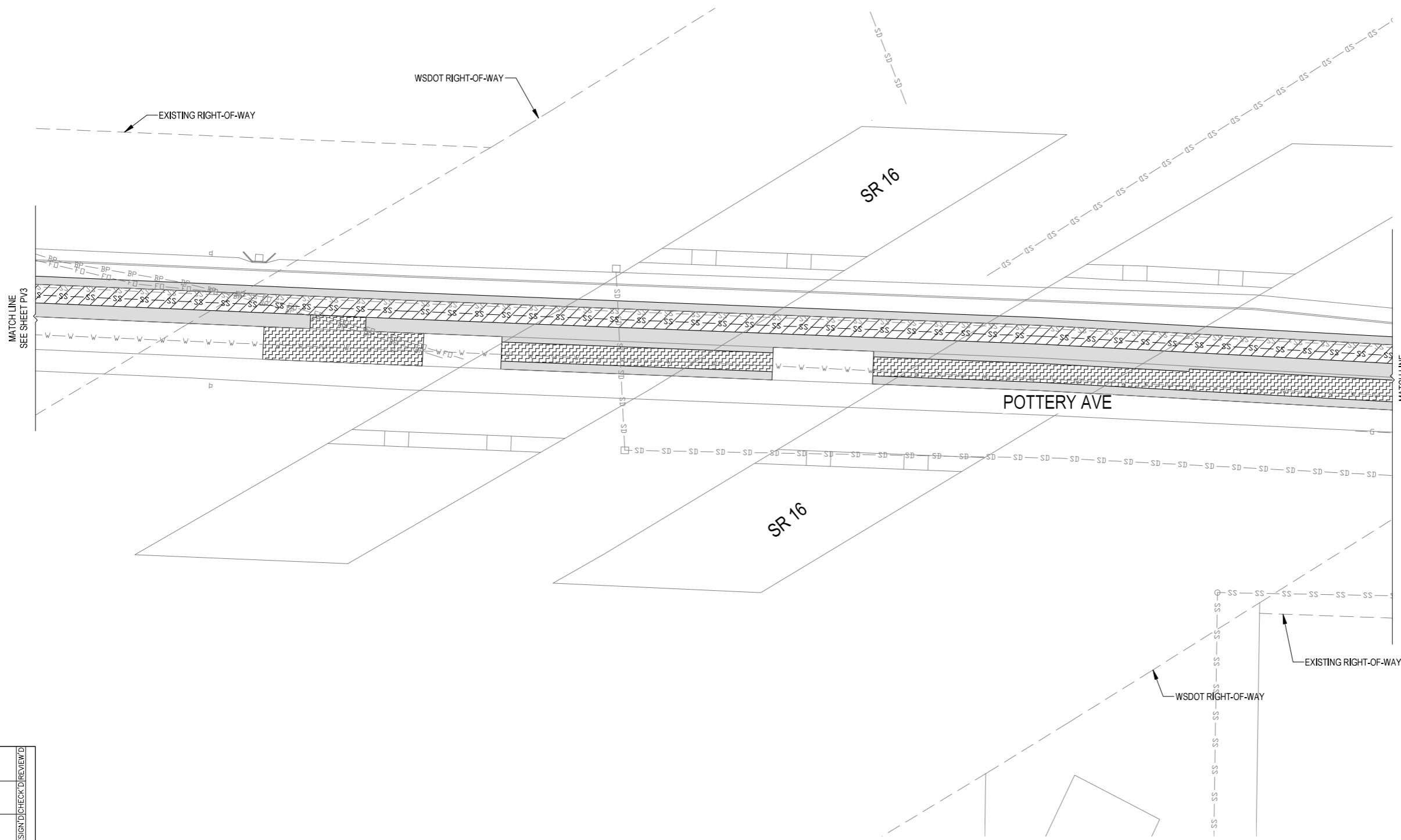
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POTTERY AVE NON-MOTORIZED IMPROVEMENTS
 SITE PREPARATION AND TESC PLAN

PLAN NO.
SP5
 SHEET
 7 OF 50

SEC. 2 & 3 T.23N. R.1E. W.M.



GENERAL NOTES:

1. PAVEMENT GRIND AND OVERLAY LOCATIONS SHALL BE COORDINATED WITH THE CITY OF PORT ORCHARD ENGINEER.
2. STORM DRAIN INLET PROTECTION PER WSDOT STD. PLAN I-40.20 SHALL BE INSTALLED ON ALL NEW CATCH BASINS AT THE TIME OF INSTALLATION AND IN ALL EXISTING CATCH BASINS BEFORE COMMENCING WORK PER THESE PLANS.
3. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN EXISTING HORIZONTAL AND VERTICAL INFORMATION REQUIRED TO PLACE CURB AND GUTTER IN THE CORRECT LOCATION.
4. ALL SIDEWALKS SHALL MATCH INTO EXISTING AT THE NEAREST JOINT.
5. CONTRACTOR SHALL CRACK SEAL ALL PAVEMENT CRACKS IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.
6. SEE UT PLANS FOR UTILITY INFORMATION AND TRENCH DETAILS.
7. ALL UTILITIES SHALL BE ADJUSTED TO FINISHED GRADE UNLESS NOTED OTHERWISE.

CONSTRUCTION NOTES:

- ① INSTALL CEMENT CONC. EXTRUDED CURB TYPE 6 PER WSDOT STD. PLAN F-10.42
- ② INSTALL CEMENT CONC. DRIVEWAY ENTRANCE TYPE 1 PER WSDOT STD. PLAN F-80.10
- ③ INSTALL CEMENT CONC. CURB RAMP TYPE PERPENDICULAR A PER WSDOT STD. PLAN F-40.15
- ④ INSTALL CEMENT CONC. CURB RAMP TYPE PARALLEL A PER WSDOT STD. PLAN F-40.12
- ⑤ INSTALL CEMENT CONC. TRAFFIC CURB AND GUTTER PER COPO STD. PLAN 300
- ⑥ ADJUST VALVE BOX TO GRADE
- ⑦ ADJUST CATCH BASIN TO GRADE
- ⑧ ADJUST MANHOLE TO GRADE
- ⑨ INSTALL CEMENT CONC. TRAFFIC CURB PER WSDOT STD. PLAN F-10.12
- ⑩ PROVIDE AND INSTALL RFRB AND RELATED ELEMENTS PER MANUFACTURER'S REQUIREMENTS, SPECIAL PROVISIONS, AND DETAIL ON DWG. MD2
- ⑪ INSTALL ASPHALT TRANSITION RAMP CONFORMING TO ADA REQUIREMENTS
- ⑫ CEMENT CONC. PEDESTRIAN CURB PER COPO STD. PLAN 301
- ⑬ INSTALL ROCKERY PER DETAIL ON DWG. MD1

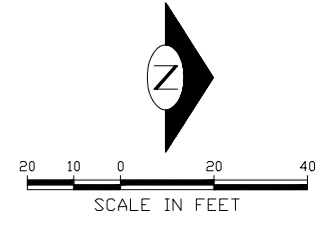
LEGEND:

- 6" HMA CL. 1/2 IN. PG 58H-22 OVER 8" CSTC
- 6" HMA CL. 1/2 IN. PG 58H-22 OVER 2" CSTC
- 2" HMA CL. 1/2 IN. PG 58H-22
- DETECTABLE WARNING SURFACE PER COPO STD. PLAN 341
- CEMENT CONC. SIDEWALK PER COPO STD. PLAN 340 OVER 2" CSTC
- 3" HMA FOR APPROACH CL. 1/2 IN. PG 58H-22 OVER 2" CSTC
- 6" CEMENT CONC. FOR DRIVEWAY OVER 2" CSTC
- LANDSCAPING AND LANDSCAPE RESTORATION. LIMITS ARE APPROXIMATE AND SHALL BE CONFIRMED IN THE FIELD.

DATE	REVISION TYPE	DESIGN	CHECK	REVIEW	D

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Exhibit "C" Page 5 of 15



CITY OF PORT ORCHARD CAPITAL PROJECTS
 216 PROSPECT STREET, PORT ORCHARD, WA 98366
 PHONE: 360.876.4991

NAME OR INITIALS AND DATE	NAME OR INITIALS AND DATE
DESIGNED: CAW MAR 2023	PROJECT MANAGER: K, CHRIS HAMMER
CHECKED: KCH MAR 2023	REVIEWED: MAR 2023
DRAWN: CAW MAR 2023	REVISED AS-BUILT
CHECKED: KCH MAR 2023	



POTTERY AVE NON-MOTORIZED IMPROVEMENTS
 PAVING PLAN

PLAN NO. PV4
 SHEET 19 OF 50

GENERAL NOTES:

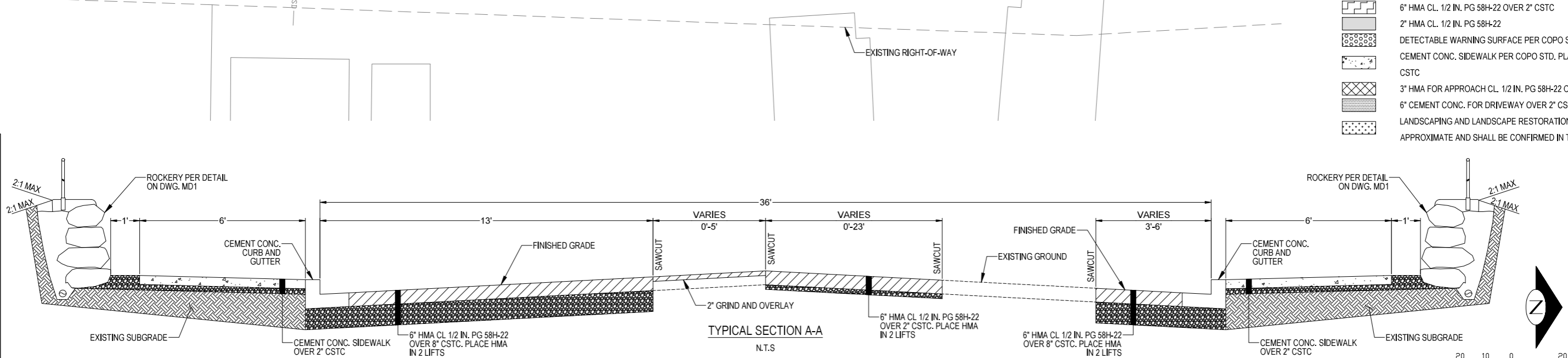
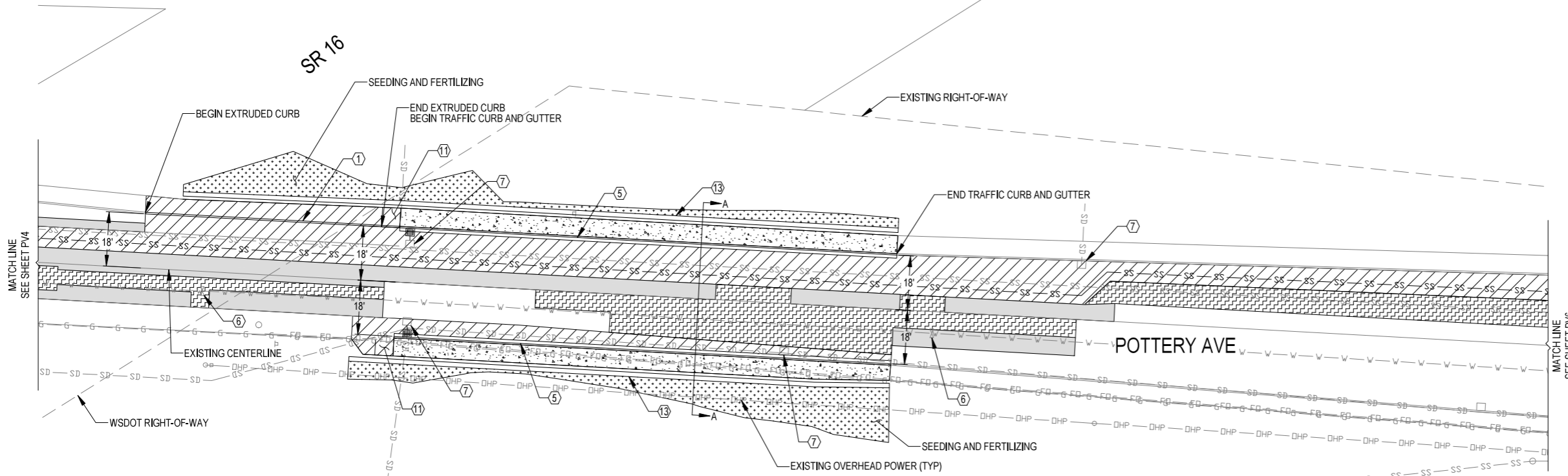
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2. STORM DRAIN INLET PROTECTION PER WSDOT STD. PLAN I-40.20 SHALL BE INSTALLED ON ALL NEW CATCH BASINS AT THE TIME OF INSTALLATION AND IN ALL EXISTING CATCH BASINS BEFORE COMMENCING WORK PER THESE PLANS.
3. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN EXISTING HORIZONTAL AND VERTICAL INFORMATION REQUIRED TO PLACE CURB AND GUTTER IN THE CORRECT LOCATION.
4. ALL SIDEWALKS SHALL MATCH INTO EXISTING AT THE NEAREST JOINT.
5. CONTRACTOR SHALL CRACK SEAL ALL PAVEMENT CRACKS IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.
6. SEE UT PLANS FOR UTILITY INFORMATION AND TRENCH DETAILS.
7. ALL UTILITIES SHALL BE ADJUSTED TO FINISHED GRADE UNLESS NOTED OTHERWISE.

CONSTRUCTION NOTES:

- ① INSTALL CEMENT CONC. EXTRUDED CURB TYPE 6 PER WSDOT STD. PLAN F-10.42
- ② INSTALL CEMENT CONC. DRIVEWAY ENTRANCE TYPE 1 PER WSDOT STD. PLAN F-80.10
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- ⑪ INSTALL ASPHALT TRANSITION RAMP CONFORMING TO ADA REQUIREMENTS
- ⑫ CEMENT CONC. PEDESTRIAN CURB PER COPO STD. PLAN 301
- ⑬ INSTALL ROCKERY PER DETAIL ON DWG. MD1

LEGEND:

- 6" HMA CL. 1/2 IN. PG 58H-22 OVER 8" CSTC
- 6" HMA CL. 1/2 IN. PG 58H-22 OVER 2" CSTC
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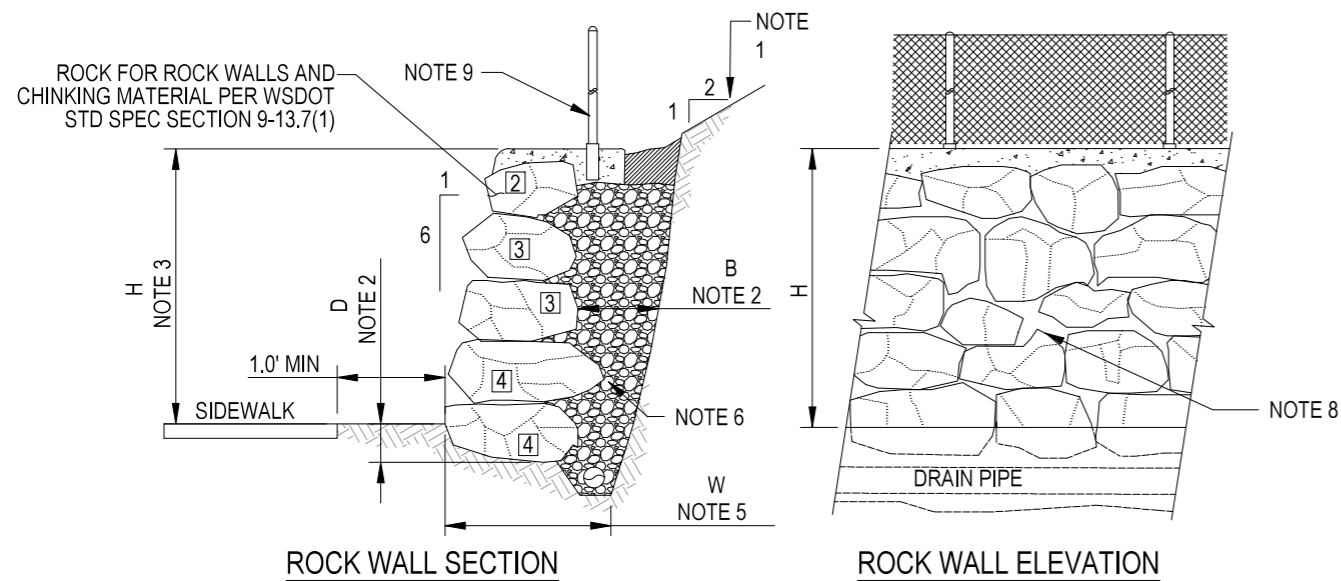
CITY OF PORT ORCHARD CAPITAL PROJECTS
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POTTERY AVE NON-MOTORIZED IMPROVEMENTS
PAVING PLAN

PLAN NO. PV5
SHEET 20 OF 50



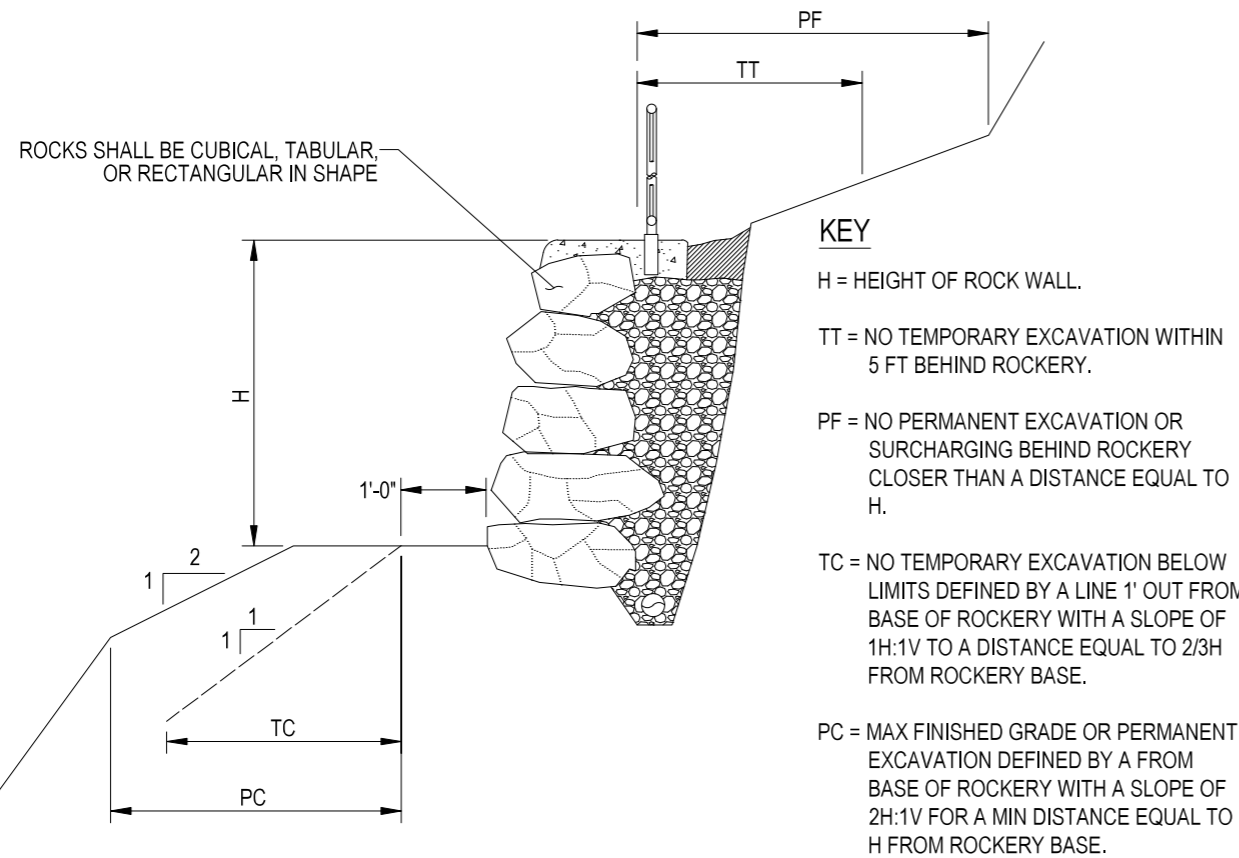
LEGEND

- BACKFILL FOR ROCK WALL PER WSDOT STD SPEC SECTION 9-13.7(2)
 - CONCRETE ROCKERY CAP
 - UNDISTURBED NATIVE SOIL
 - SEED OR SOD ON 12" OF TOPSOIL WITH UNDERLAYER OF FILTER FABRIC
- 4 INCH DIAMETER, HDPE OR SDR35 PVC, PERFORATED OR SLOTTED, WITH SMOOTH INTERIOR PIPE, WRAPPED W/ CONSTRUCTION GEOTEXTILE. SET SLIGHTLY LOWER THAN THE BASE ROCK TO PREVENT DAMAGE. LAY WITH A POSITIVE SLOPE TO DISCHARGE AWAY FROM ROCKERY
- DESIGNATES SIZE OF ROCK, I.E. 4 MAN. SEE NOTE 11 EQUAL TO H.

NOTES

1. MAXIMUM INCLINATION OF THE SLOPES ABOVE AND BEHIND ROCK WALL SHALL BE 2:1 (HORIZONTAL:VERTICAL).
2. MINIMUM THICKNESS OF ROCK FILTER LAYER B=12 INCHES. MINIMUM EMBEDMENT D=18 INCHES.
3. MAXIMUM ROCK WALL HEIGHT H=8 FEET. ROCK WALLS GREATER THAN 8 FEET IN HEIGHT SHALL BE DESIGNED BY A CIVIL ENGINEER LICENSED IN THE STATE OF WASHINGTON.
4. ROCK SHALL BE PLACED TO GRADUALLY DECREASE IN SIZE WITH INCREASING WALL HEIGHT.
5. MINIMUM WIDTH OF KEYWAY EXCAVATION W, SHALL BE EQUAL TO THE THICKNESS OF THE BASE ROCK PLUS B (ROCK FILTER).
6. THE LONG DIMENSION OF THE ROCKS SHALL EXTEND BACK TOWARD THE CUT OR FILL FACE TO PROVIDE MAXIMUM STABILITY.
7. WHENEVER POSSIBLE EACH ROCK SHALL BEAR ON TWO OR MORE ROCKS BELOW IT, WITH GOOD FLAT-TO-FLAT CONTACT.
8. WHERE VOIDS OF GREATER THAN 6 INCHES IN DIMENSIONS EXIST IN THE ROCK FACE AND THERE IS NO ROCK CONTACT WITHIN THE ROCK WALL THICKNESS, THE VOID SHALL BE CHINKED WITH SMALL PIECES OF ROCK.
9. ROCKERIES MORE THAN 30 INCHES ABOVE GRADE OR FLOOR BELOW SHALL BE PROTECTED BY A BLACK COATED CHAIN LINK FENCE TYPE 4 PER WSDOT STD. PLAN L-20.10.
10. ROCKERIES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE "ROCK WALL CONSTRUCTION GUIDELINES", PREPARED BY THE ASSOCIATED ROCKERY CONTRACTORS.
11. THE DENSITY OF ROCK MATERIAL SHALL BE A MINIMUM OF 155 PCF. THE SIZE CATEGORIES FOR ROCKS SHALL BE AS FOLLOWS:

SIZE	APPROXIMATE WEIGHT - LBS	APPROXIMATE DIAMETER - INCHES
1 MAN	50-200	12-18
2 MAN	200-700	18-28
3 MAN	700-2000	28-36
4 MAN	2000-4000	36-48
5 MAN	4000-6000	48-54
6 MAN	6000-8000	54-60



- KEY**
- H = HEIGHT OF ROCK WALL.
 - TT = NO TEMPORARY EXCAVATION WITHIN 5 FT BEHIND ROCKERY.
 - PF = NO PERMANENT EXCAVATION OR SURCHARGING BEHIND ROCKERY CLOSER THAN A DISTANCE EQUAL TO H.
 - TC = NO TEMPORARY EXCAVATION BELOW LIMITS DEFINED BY A LINE 1' OUT FROM BASE OF ROCKERY WITH A SLOPE OF 1H:1V TO A DISTANCE EQUAL TO 2/3H FROM ROCKERY BASE.
 - PC = MAX FINISHED GRADE OR PERMANENT EXCAVATION DEFINED BY A FROM BASE OF ROCKERY WITH A SLOPE OF 2H:1V FOR A MIN DISTANCE EQUAL TO H FROM ROCKERY BASE.

PLACEMENT NOTES

1. APPROVAL FOR THE PLACEMENT OF THE ROCKERY WILL DEPEND ON EXISTING AND PROPOSED UNDERGROUND UTILITY LOCATIONS.

DESIGN AND POST CONSTRUCTION LIMITATIONS

ROCKERY DETAIL

N.T.S

Exhibit "C" Page 7 of 15

DATE	REVISION TYPE	DESIGN CHECK/REVIEW'D

Engineer's Stamp

CITY OF PORT ORCHARD CAPITAL PROJECTS
 216 PROSPECT STREET, PORT ORCHARD, WA 98366
 PHONE: 360.876.4991

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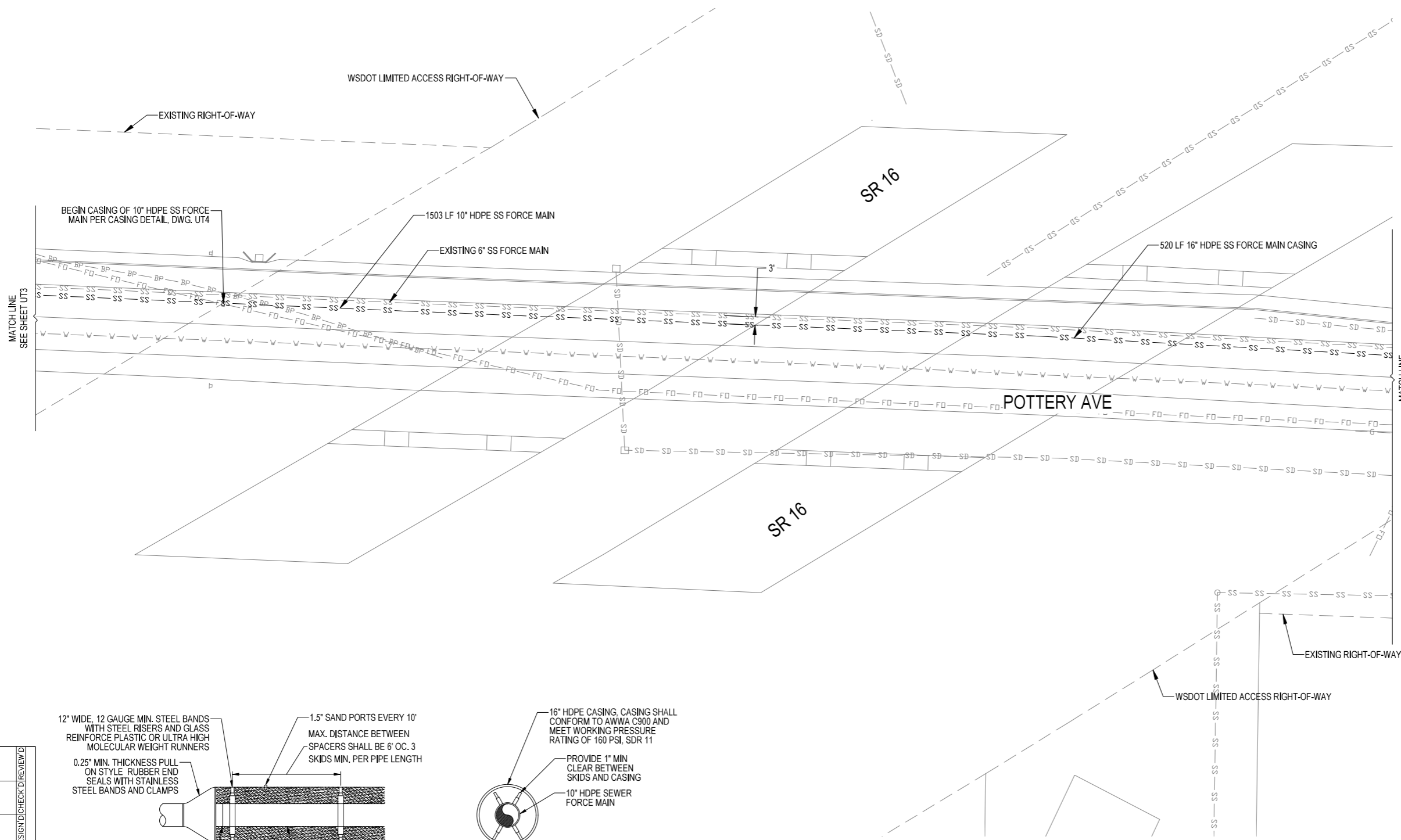
POTTERY AVE NON-MOTORIZED IMPROVEMENTS

MISCELLANEOUS DETAILS

PLAN NO.
MD1

SHEET
28 OF 51

SEC. 2 & 3 T.23N. R.1E. W.M.



GENERAL NOTES:

1. SEE DWG. GN1 FOR ADDITIONAL UTILITY NOTES.
2. STORM DRAIN INLET PROTECTION PER WSDOT STD. PLAN I-40.20 SHALL BE INSTALLED ON ALL NEW CATCH BASINS AT THE TIME OF INSTALLATION AND IN ALL EXISTING CATCH BASINS BEFORE COMMENCING WORK PER THESE PLANS.
3. UTILITY TRENCHING AND ROADWAY RESTORATION SHALL BE IN ACCORDANCE WITH COPO STD. PLANS 404, 801, AND 900.
4. ALL EXISTING UTILITIES SHALL BE PROTECTED UNLESS NOTED OTHERWISE.
5. SEWER MAIN INSTALLATION SHALL COINCIDE WITH FRONTAGE IMPROVEMENTS FOR THE HAVEN TOWNHOMES DEVELOPMENT UNLESS OTHERWISE APPROVED BY THE ENGINEER.
6. THE DEPTH OF TRENCHING, INSTALLATION OF PIPES, AND BACKFILL SHALL BE SUCH AS TO GIVE A MINIMUM COVER OF 36 INCHES OVER THE TOP OF THE WATER MAIN.
7. EXISTING WATER MAIN SHALL REMAIN IN OPERATION UNTIL THE NEW WATER MAIN IS OPERATIONAL.
8. THE BOTTOM OF THE WATER MAIN SHALL BE 18 INCHES MINIMUM ABOVE THE TOP OF THE SEWER MAIN. IF IT IS DETERMINED THAT THIS IS NOT FEASIBLE, THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY.
9. THE DEPTH OF TRENCHING, INSTALLATION OF PIPES, AND BACKFILL SHALL BE SUCH AS TO GIVE A MINIMUM COVER OF 60 INCHES OVER THE TOP OF THE SEWER MAIN.
10. ROADWAY AND SHOULDERS SHALL BE RESTORED IN-KIND UNLESS NOTED OTHERWISE.
11. SEE DWG. GN1 FOR ADDITIONAL NOTES.

CONSTRUCTION NOTES:

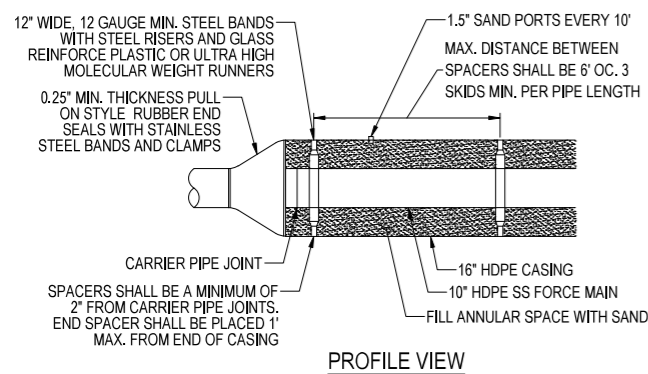
- ① PROVIDE AND INSTALL CATCH BASIN TYPE 1 WITH RECTANGULAR VANED GRATE PER WSDOT STD. PLANS B-5.20 AND B-30.30
- ② CONNECTION TO DRAINAGE STRUCTURE
- ③ PROVIDE AND INSTALL LOCKING SOLID METAL COVER FOR CATCH BASIN PER WSDOT STD. PLAN B-30.20
- ④ DROP MANHOLE CONNECTION PER DETAIL ON DWG. UT6
- ⑤ REMOVE EXISTING AC WATER MAIN PIPE. INSTALL AND CONNECT WATER MAIN TO EXISTING VALVE ASSEMBLY
- ⑥ PLACE THRUST BLOCK FOR 45° BEND PER COPO STD. PLANS 803-A AND 803-B
- ⑦ RECONNECT EXISTING WATER SERVICE TO NEW WATER MAIN
- ⑧ REMOVE AND DISPOSE OF EXISTING WATER SERVICE LINE. PROVIDE AND INSTALL SERVICE LINE PER COPO STD. PLAN 860 OR 861
- ⑨ NOT USED
- ⑩ NOT USED
- ⑪ REMOVE AND DISPOSE OF EXISTING WATER SERVICE LINE. RELOCATE EXISTING WATER METER BOX AND WATER METER PER COPO STD. PLAN 860 OR 861. EXISTING SERVICE LINES ON PRIVATE SIDE SHALL BE EXTENDED TO CONNECT TO WATER METER
- ⑫ CONNECT SERVICE LINE TO EXISTING SERVICE LINE AND EXTEND TO WATER MAIN PER COPO STD. PLAN 860 OR 861
- ⑬ REMOVE EXISTING BLIND FLANGE AND CONNECT WATER MAIN TO EXISTING VALVE ASSEMBLY
- ⑭ RELOCATE EXISTING FIRE HYDRANT ASSEMBLY AND CONNECT TO EXISTING VALVE ASSEMBLY PER COPO STD. PLAN 881
- ⑮ EXISTING AC WATER MAIN TO BE ABANDONED IN PLACE
- ⑯ REMOVE AND DISPOSE OF EXISTING VALVE BOX ASSEMBLY

LEGEND:

- W — EXISTING WATER MAIN OR SERVICE
- SS — EXISTING SEWER MAIN
- SD — EXISTING STORM DRAIN LINE
- SS — PROPOSED SEWER MAIN
- SD — PROPOSED STORM MAIN
- W — PROPOSED WATER MAIN OR SERVICE

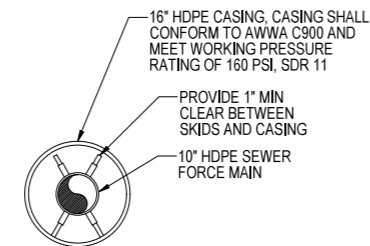


Exhibit "C" Page 8 of 15



FORCE MAIN CASING DETAIL

N.T.S



SECTION VIEW

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CITY OF PORT ORCHARD CAPITAL PROJECTS
216 PROSPECT STREET, PORT ORCHARD, WA 98366
PHONE: 360.876.4991

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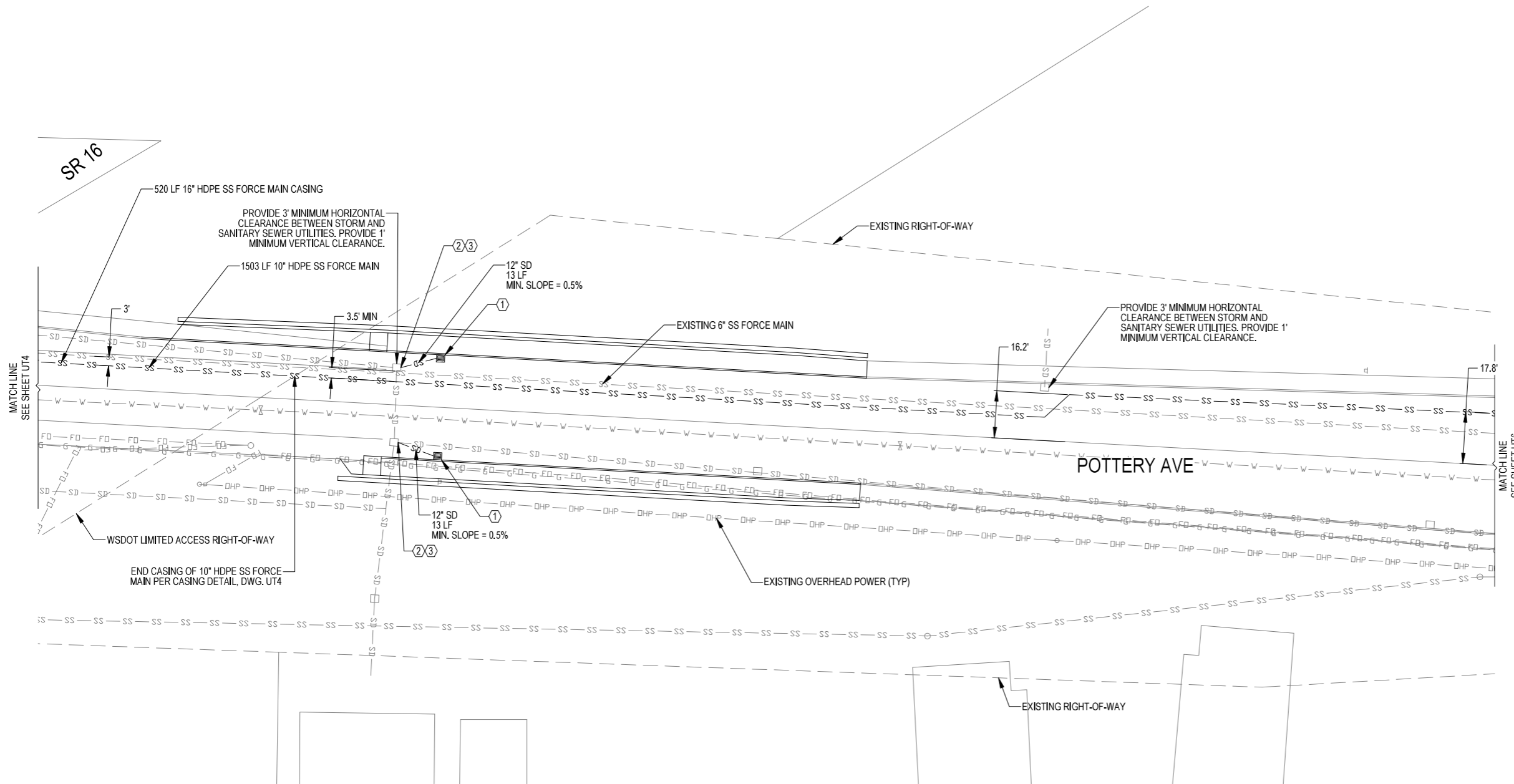
POTTERY AVE NON-MOTORIZED IMPROVEMENTS

UTILITY PLAN

PLAN NO. UT4

SHEET 33 OF 50

SEC. 2 & 3 T.23N. R.1E. W.M.



- GENERAL NOTES:**
- SEE DWG. GN1 FOR ADDITIONAL UTILITY NOTES.
 - STORM DRAIN INLET PROTECTION PER WSDOT STD. PLAN I-40.20 SHALL BE INSTALLED ON ALL NEW CATCH BASINS AT THE TIME OF INSTALLATION AND IN ALL EXISTING CATCH BASINS BEFORE COMMENCING WORK PER THESE PLANS.
 - UTILITY TRENCHING AND ROADWAY RESTORATION SHALL BE IN ACCORDANCE WITH COPO STD. PLANS 404, 801, AND 900.
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- CONSTRUCTION NOTES:**
- PROVIDE AND INSTALL CATCH BASIN TYPE 1 WITH RECTANGULAR VANED GRATE PER WSDOT STD. PLANS B-5.20 AND B-30.30
 - CONNECTION TO DRAINAGE STRUCTURE
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 - DROP MANHOLE CONNECTION PER DETAIL ON DWG. UT6
 - REMOVE EXISTING AC WATER MAIN PIPE. INSTALL AND CONNECT WATER MAIN TO EXISTING VALVE ASSEMBLY
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- LEGEND:**
- W — EXISTING WATER MAIN OR SERVICE
 - SS — EXISTING SEWER MAIN
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 - SS — PROPOSED SEWER MAIN
 - SD — PROPOSED STORM MAIN
 - W — PROPOSED WATER MAIN OR SERVICE



Exhibit "C" Page 9 of 15

DATE	REVISION TYPE	DESIGN/CHECK/REVIEW/D

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POTTERY AVE NON-MOTORIZED IMPROVEMENTS
 UTILITY PLAN

PLAN NO.
UT5
 SHEET
 34 OF 50

GENERAL NOTES:

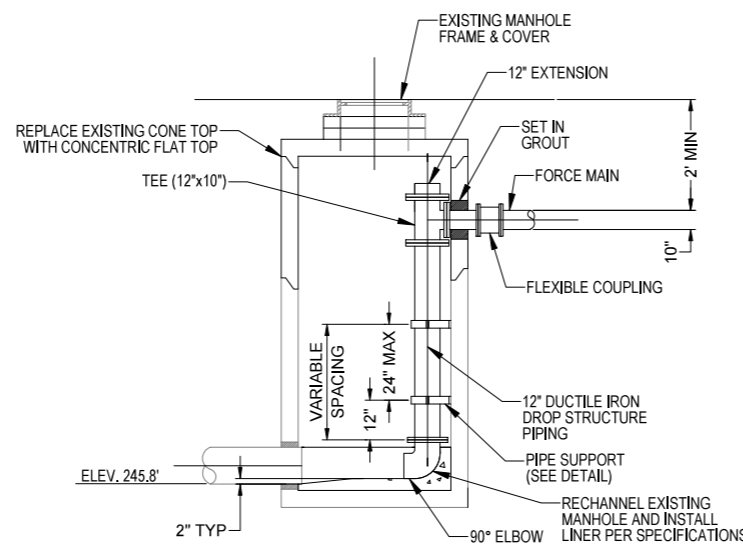
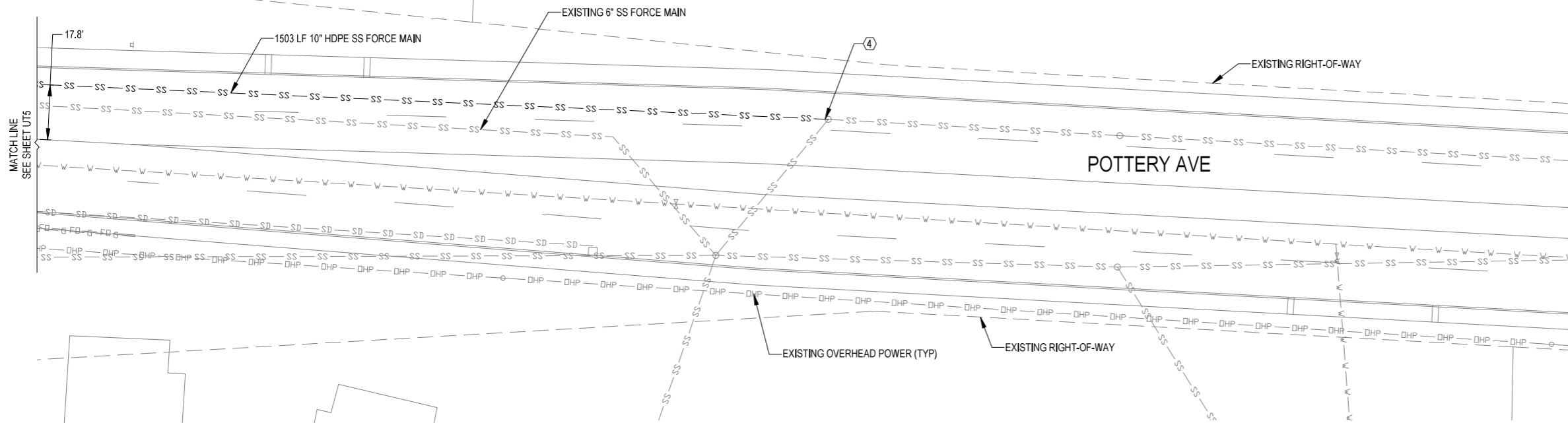
1. SEE DWG. GN1 FOR ADDITIONAL UTILITY NOTES.
2. STORM DRAIN INLET PROTECTION PER WSDOT STD. PLAN I-40.20 SHALL BE INSTALLED ON ALL NEW CATCH BASINS AT THE TIME OF INSTALLATION AND IN ALL EXISTING CATCH BASINS BEFORE COMMENCING WORK PER THESE PLANS.
3. UTILITY TRENCHING AND ROADWAY RESTORATION SHALL BE IN ACCORDANCE WITH COPO STD. PLANS 404, 801, AND 900.
4. ALL EXISTING UTILITIES SHALL BE PROTECTED UNLESS NOTED OTHERWISE.
5. SEWER MAIN INSTALLATION SHALL COINCIDE WITH FRONTAGE IMPROVEMENTS FOR THE HAVEN TOWNHOMES DEVELOPMENT UNLESS OTHERWISE APPROVED BY THE ENGINEER.
6. THE DEPTH OF TRENCHING, INSTALLATION OF PIPES, AND BACKFILL SHALL BE SUCH AS TO GIVE A MINIMUM COVER OF 36 INCHES OVER THE TOP OF THE WATER MAIN.
7. EXISTING WATER MAIN SHALL REMAIN IN OPERATION UNTIL THE NEW WATER MAIN IS OPERATIONAL.
8. THE BOTTOM OF THE WATER MAIN SHALL BE 18 INCHES MINIMUM ABOVE THE TOP OF THE SEWER MAIN. IF IT IS DETERMINED THAT THIS IS NOT FEASIBLE, THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY.
9. ROADWAY AND SHOULDERS SHALL BE RESTORED IN-KIND UNLESS NOTED OTHERWISE.

CONSTRUCTION NOTES:

- ① PROVIDE AND INSTALL CATCH BASIN TYPE 1 PER WSDOT STD. PLAN B-5.20
- ② CONNECTION TO DRAINAGE STRUCTURE
- ③ PROVIDE AND INSTALL LOCKING SOLID METAL COVER FOR CATCH BASIN PER WSDOT STD. PLAN B-30.20
- ④ DROP MANHOLE CONNECTION PER DETAIL ON DWG. UT6
- ⑤ REMOVE EXISTING AC WATER MAIN PIPE. INSTALL AND CONNECT WATER MAIN TO EXISTING VALVE ASSEMBLY
- ⑥ PLACE THRUST BLOCK FOR 45° BEND PER COPO STD. PLANS 803-A AND 803-B
- ⑦ RECONNECT EXISTING WATER SERVICE TO NEW WATER MAIN
- ⑧ REMOVE AND DISPOSE OF EXISTING WATER SERVICE LINE. PROVIDE AND INSTALL SERVICE LINE PER COPO STD. PLAN 860 OR 861
- ⑨ NOT USED
- ⑩ NOT USED
- ⑪ REMOVE AND DISPOSE OF EXISTING WATER SERVICE LINE. RELOCATE EXISTING WATER METER BOX AND WATER METER PER COPO STD. PLAN 860 OR 861. EXISTING SERVICE LINES ON PRIVATE SIDE SHALL BE EXTENDED TO CONNECT TO WATER METER
- ⑫ CONNECT SERVICE LINE TO EXISTING SERVICE LINE AND EXTEND TO WATER MAIN PER COPO STD. PLAN 860 OR 861
- ⑬ REMOVE EXISTING BLIND FLANGE AND CONNECT WATER MAIN TO EXISTING VALVE ASSEMBLY
- ⑭ RELOCATE EXISTING FIRE HYDRANT ASSEMBLY AND CONNECT TO EXISTING VALVE ASSEMBLY PER COPO STD. PLAN 881
- ⑮ EXISTING AC WATER MAIN TO BE ABANDONED IN PLACE
- ⑯ REMOVE AND DISPOSE OF EXISTING VALVE BOX ASSEMBLY

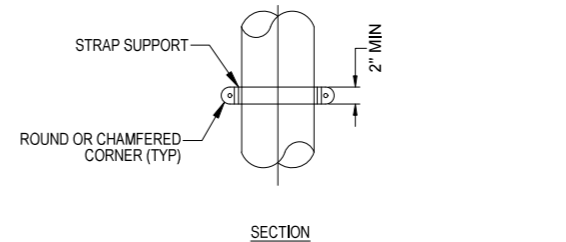
LEGEND:

- W — EXISTING WATER MAIN OR SERVICE
- SS — EXISTING SEWER MAIN
- SD — EXISTING STORM DRAIN LINE
- SS — PROPOSED SEWER MAIN
- SD — PROPOSED STORM MAIN
- W — PROPOSED WATER MAIN OR SERVICE

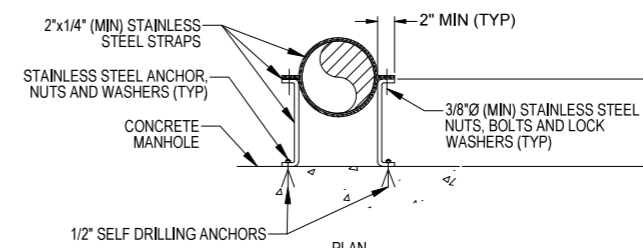


FORCE MAIN INSIDE DROP/RECEIVING MANHOLE

N.T.S.



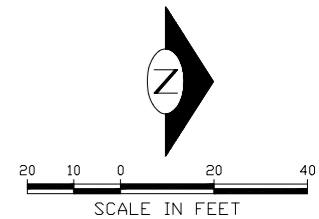
SECTION



PLAN

FORCE MAIN DROP CLIP SUPPORT

N.T.S.



DATE	REVISION TYPE	DESIGN/CHECK/REVIEW/D
	REVISIONS	

DISCLAIMER: THIS PLAN WAS DEVELOPED FROM CITY OF PORT ORCHARD AND KITSAP COUNTY GIS INFORMATION ALONG WITH AERIAL IMAGERY AND MAY NOT REPRESENT TRUE CONDITIONS IN THE FIELD.

CITY OF PORT ORCHARD CAPITAL PROJECTS
216 PROSPECT STREET, PORT ORCHARD, WA 98366
PHONE: 360.876.4991

NAME OR INITIALS AND DATE	NAME OR INITIALS AND DATE
DESIGNED: CAW MAR 2023	PROJECT MANAGER: K, CHRIS HAMMER
CHECKED: KCH MAR 2023	REVIEWED: MAR 2023
DRAWN: CAW MAR 2023	REVISED AS-BUILT
CHECKED: KCH MAR 2023	



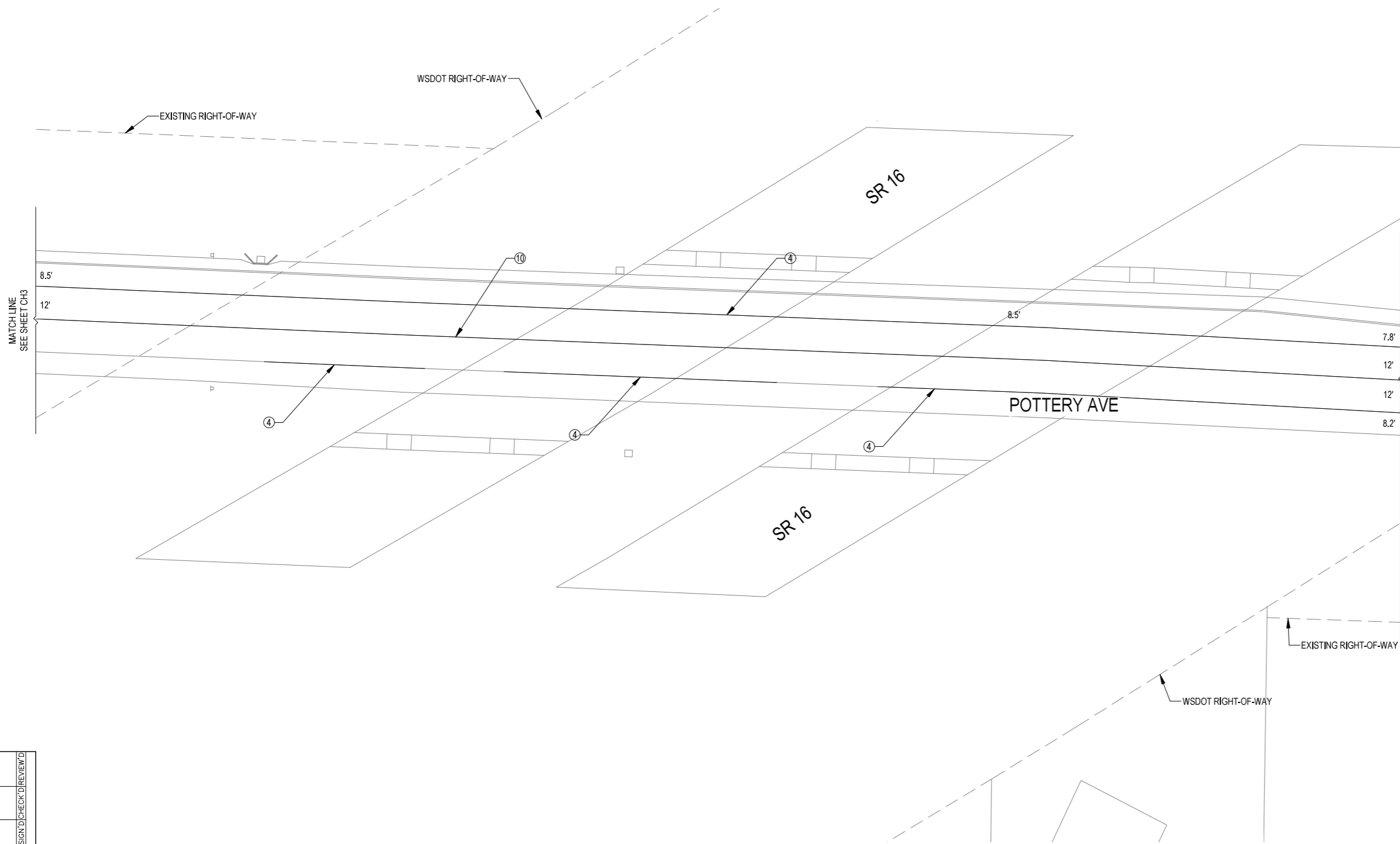
POTTERY AVE NON-MOTORIZED IMPROVEMENTS

UTILITY PLAN

PLAN NO. UT6

SHEET 35 OF 50

SEC. 2 & 3 T.23N. R.1E. W.M.



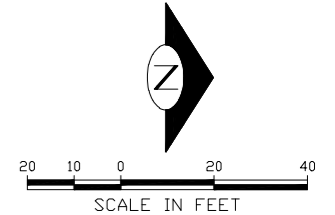
- GENERAL NOTES:**
- EXISTING PAVEMENT MARKINGS AND SIGNS THAT CONFLICT WITH CHANNELIZATION AND SIGNING PLAN SHALL BE REMOVED.
 - CONTRACTOR SHALL COORDINATE WITH COPO OPERATIONS AND MAINTENANCE PRIOR TO STRIPING AND SIGNING.
 - DIMENSIONS ADJACENT TO CURB AND GUTTER ARE MEASURED FROM FACE OF CURB.
 - ALL PLASTIC PAVEMENT MARKINGS SHALL UTILIZE TYPE A - LIQUID HOT APPLIED THERMOPLASTIC PER WSDOT SPECIFICATIONS UNLESS OTHERWISE NOTED.
 - BICYCLE LANE SYMBOLS SHALL BE SPACED 500' MAXIMUM.

- CHANNELIZATION NOTES:**
- WHITE EDGE LINE TO BE INSTALLED BY OTHERS (HAVEN TOWNHOMES DEVELOPMENT)
 - INSTALL PLASTIC CROSSWALK LINE PER COPO STD. PLAN 427
 - INSTALL PLASTIC 24" STOP LINE PER COPO STD. PLANS 427 AND 430
 - INSTALL PAINTED WHITE WIDE EDGE LINE PER WSDOT STD. PLAN M-20.10
 - INSTALL TORCH DOWN PLASTIC BICYCLE LANE SYMBOL PER WSDOT STD. PLAN M-9.50
 - INSTALL PAINTED WHITE EDGE LINE PER WSDOT STD. PLAN M-20.10
 - INSTALL 8" PAINTED WHITE CROSSHATCH MARKING PER WSDOT STD. PLAN M-24.60
 - INSTALL PLASTIC WHITE DOTTED EXTENSION LINE PER WSDOT STD. PLAN M-20.10
 - INSTALL PLASTIC WHITE DOTTED EXTENSION LINE PER WSDOT STD. PLAN M-20.10
 - INSTALL PAINTED DOUBLE YELLOW CENTERLINE PER COPO STD. PLAN 424
 - INSTALL PLASTIC TYPE 2L TRAFFIC ARROW PER COPO STD. PLAN 430. SEE COPO STD. PLAN 424 FOR TWLTL ARROW LAYOUT
 - INSTALL PLASTIC WHITE WIDE SOLID LANE LINE PER WSDOT STD. PLAN M-20.10
 - INSTALL PAINTED YELLOW TWO-WAY LEFT-TURN CENTERLINE PER COPO STD. PLAN 424
 - INSTALL PAINTED YELLOW EDGE LINE PER WSDOT STD. PLAN M-20.10

- LEGEND:**
- NEW SIGN
 - REMOVE EXISTING SIGN
 - RELOCATE SIGN
 - NEW SIGN
 - EXISTING SIGN

DATE	REVISION TYPE	DESIGN	CHECK	REVIEW	D

Exhibit "C" Page 11 of 15



DISCLAIMER: THIS PLAN WAS DEVELOPED FROM CITY OF PORT ORCHARD AND KITSAP COUNTY GIS INFORMATION ALONG WITH AERIAL IMAGERY AND MAY NOT REPRESENT TRUE CONDITIONS IN THE FIELD.

CITY OF PORT ORCHARD CAPITAL PROJECTS
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 PHONE: 360.876.4991

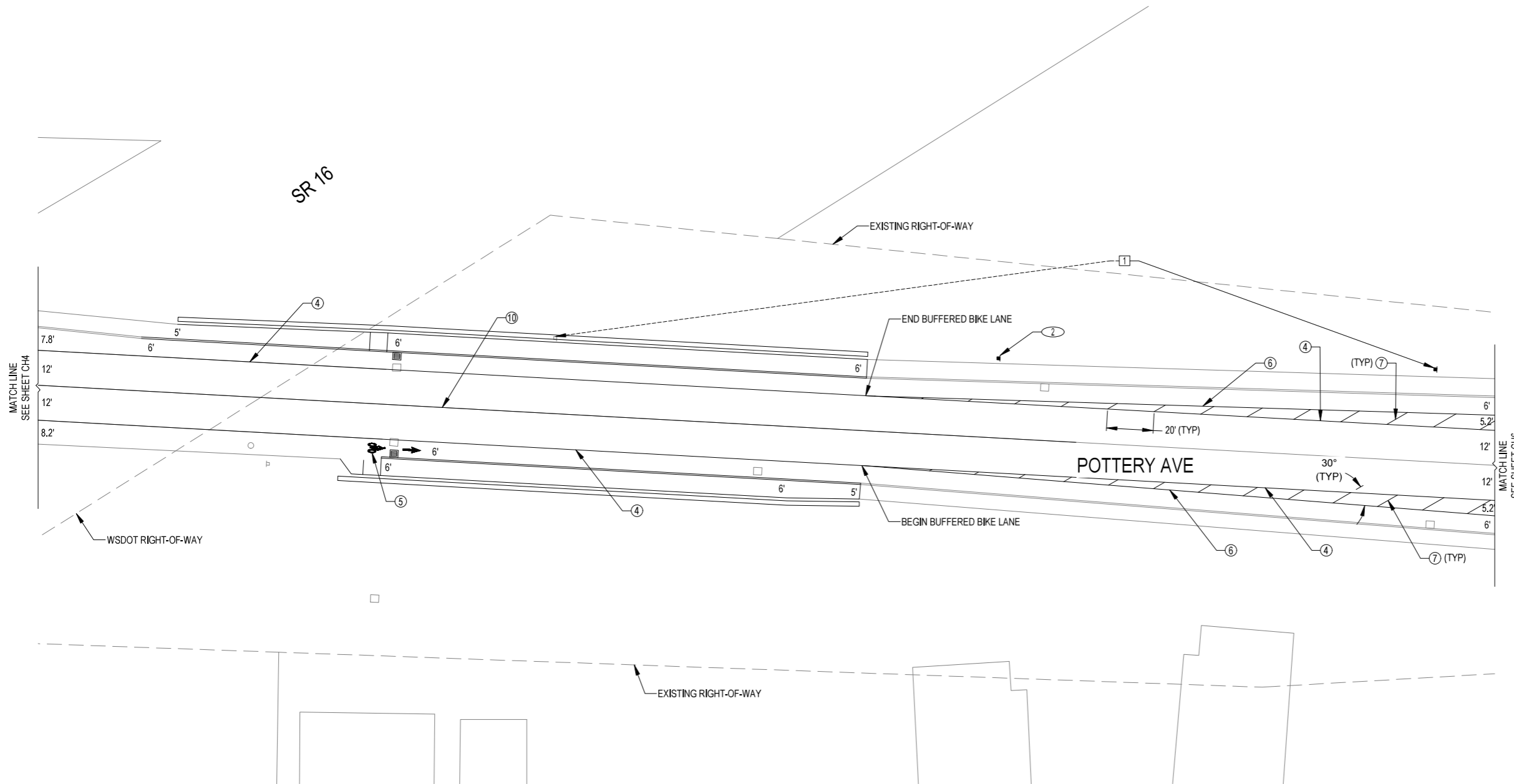
NAME OR INITIALS AND DATE	NAME OR INITIALS AND DATE
DESIGNED: CAW MAR 2023	PROJECT MANAGER: K, CHRIS HAMMER
CHECKED: KCH MAR 2023	REVIEWED: MAR 2023
DRAWN: CAW MAR 2023	REVISED AS-BUILT
CHECKED: KCH MAR 2023	



POTTERY AVE NON-MOTORIZED IMPROVEMENTS
 CHANNELIZATION AND SIGNING PLAN

PLAN NO. CH4
 SHEET 41 OF 50

SEC. 2 & 3 T.23N. R.1E. W.M.



- GENERAL NOTES:**
- EXISTING PAVEMENT MARKINGS AND SIGNS THAT CONFLICT WITH CHANNELIZATION AND SIGNING PLAN SHALL BE REMOVED.
 - CONTRACTOR SHALL COORDINATE WITH COPO OPERATIONS AND MAINTENANCE PRIOR TO STRIPING AND SIGNING.
 - DIMENSIONS ADJACENT TO CURB AND GUTTER ARE MEASURED FROM FACE OF CURB.
 - ALL PLASTIC PAVEMENT MARKINGS SHALL UTILIZE TYPE A - LIQUID HOT APPLIED THERMOPLASTIC PER WSDOT SPECIFICATIONS UNLESS OTHERWISE NOTED.
 - BICYCLE LANE SYMBOLS SHALL BE SPACED 500' MAXIMUM.

- CHANNELIZATION NOTES:**
- WHITE EDGE LINE TO BE INSTALLED BY OTHERS (HAVEN TOWNHOMES DEVELOPMENT)
 - INSTALL PLASTIC CROSSWALK LINE PER COPO STD. PLAN 427
 - INSTALL PLASTIC 24" STOP LINE PER COPO STD. PLANS 427 AND 430
 - INSTALL PAINTED WHITE WIDE EDGE LINE PER WSDOT STD. PLAN M-20.10
 - INSTALL TORCH DOWN PLASTIC BICYCLE LANE SYMBOL PER WSDOT STD. PLAN M-9.50
 - INSTALL PAINTED WHITE EDGE LINE PER WSDOT STD. PLAN M-20.10
 - INSTALL 8" PAINTED WHITE CROSSHATCH MARKING PER WSDOT STD. PLAN M-24.60
 - INSTALL PLASTIC WHITE WIDE DOTTED EXTENSION LINE PER WSDOT STD. PLAN M-20.10
 - INSTALL PLASTIC WHITE DOTTED EXTENSION LINE PER WSDOT STD. PLAN M-20.10
 - INSTALL PAINTED DOUBLE YELLOW CENTERLINE PER COPO STD. PLAN 424
 - INSTALL PLASTIC TYPE 2L TRAFFIC ARROW PER COPO STD. PLAN 430. SEE COPO STD. PLAN 424 FOR TWLTL ARROW LAYOUT
 - INSTALL PLASTIC WHITE WIDE SOLID LANE LINE PER WSDOT STD. PLAN M-20.10
 - INSTALL PAINTED YELLOW TWO-WAY LEFT-TURN CENTERLINE PER COPO STD. PLAN 424
 - INSTALL PAINTED YELLOW EDGE LINE PER WSDOT STD. PLAN M-20.10

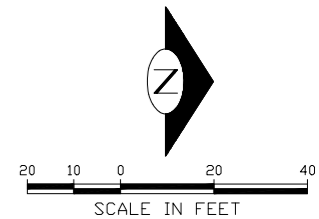
- LEGEND:**
- NEW SIGN
 - REMOVE EXISTING SIGN
 - RELOCATE SIGN
 - NEW SIGN
 - EXISTING SIGN

SIGN SCHEDULE							
SIGN NO.	SIGN TYPE	SIZE		POST TYPE	POST HEIGHT	DESCRIPTION	REMARKS
		X (IN.)	Y (IN.)				
1	R6-3	36	36	SEE COPO STD. PLAN 500	12 FT	TWO-WAY TRAFFIC BIKE LANE	RELOCATE EXISTING SIGNS (2) TO NEW POST INSTALL SIGN ON NEW POST
2	R3-17 R3-17bP	24	18 8	SEE COPO STD. PLAN 500	12 FT	ENDS PLAQUE	INSTALL SIGN ON NEW POST UNDER R3-17

DESIGNED	CHECKED	REVIEWED
DATE	REVISION TYPE	REVISIONS

DISCLAIMER: THIS PLAN WAS DEVELOPED FROM CITY OF PORT ORCHARD AND KITSAP COUNTY GIS INFORMATION ALONG WITH AERIAL IMAGERY AND MAY NOT REPRESENT TRUE CONDITIONS IN THE FIELD.

Exhibit "C" Page 12 of 15



Engineer's Stamp

CITY OF PORT ORCHARD CAPITAL PROJECTS
 216 PROSPECT STREET, PORT ORCHARD, WA 98366
 PHONE: 360.876.4991

NAME OR INITIALS AND DATE		NAME OR INITIALS AND DATE	
DESIGNED	CAW MAR 2023	PROJECT MANAGER	K, CHRIS HAMMER
CHECKED	KCH MAR 2023	REVIEWED:	MAR 2023
DRAWN	CAW MAR 2023	REVISED AS-BUILT	
CHECKED	KCH MAR 2023		

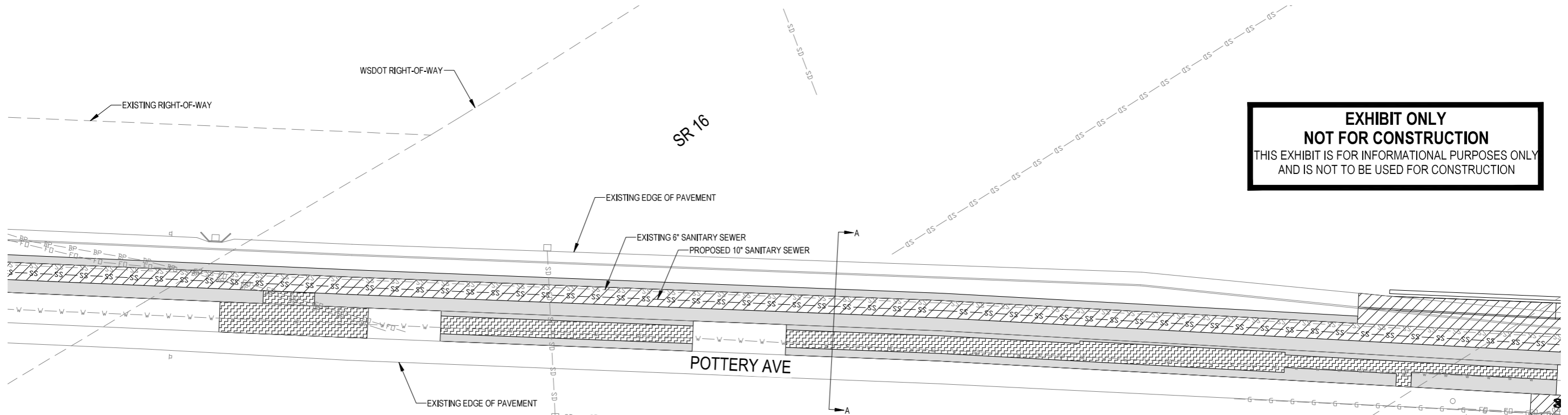
Port ORCHARD

POTTERY AVE NON-MOTORIZED IMPROVEMENTS
 CHANNELIZATION AND SIGNING PLAN

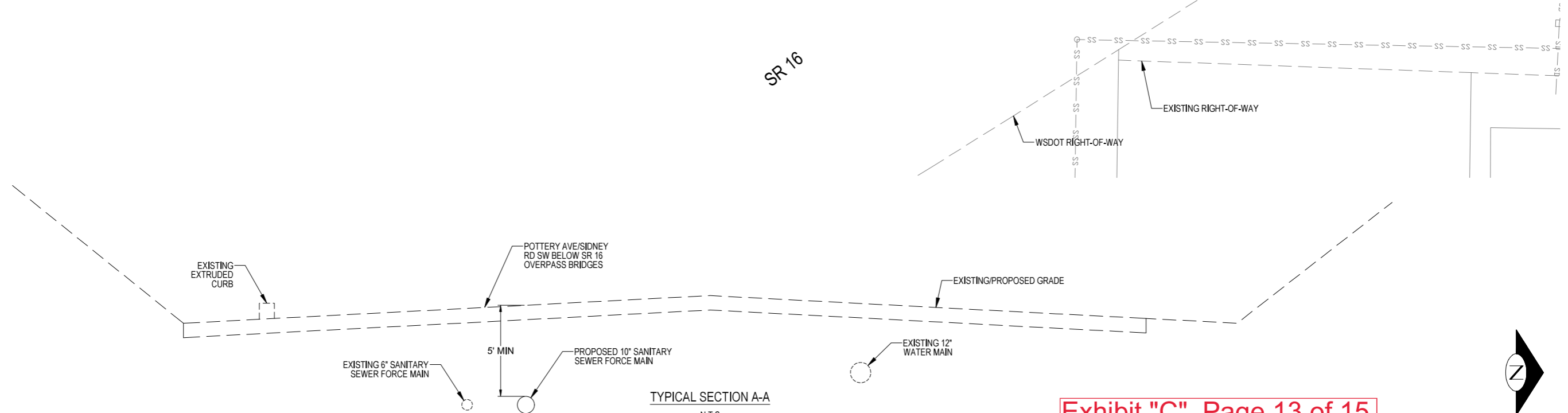
PLAN NO. **CH5**
 SHEET 42 OF 50

SEC. 2 & 3 T.23N. R.1E. W.M.

EXHIBIT ONLY
NOT FOR CONSTRUCTION
 THIS EXHIBIT IS FOR INFORMATIONAL PURPOSES ONLY
 AND IS NOT TO BE USED FOR CONSTRUCTION

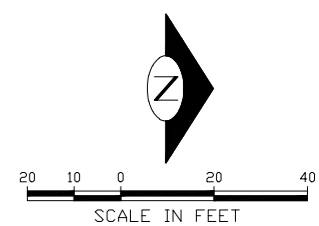


- LEGEND:**
- 6" HMA CL. 1/2 IN. PG 58H-22 OVER 8" CSTC
 - 6" HMA CL. 1/2 IN. PG 58H-22 OVER 2" CSTC
 - 2" HMA CL. 1/2 IN. PG 58H-22



TYPICAL SECTION A-A
 N.T.S

Exhibit "C" Page 13 of 15



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CITY OF PORT ORCHARD CAPITAL PROJECTS
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 PHONE: 360.876.4991

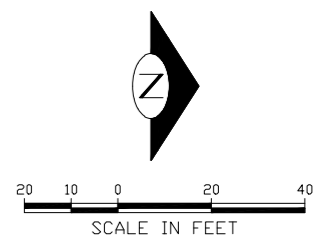
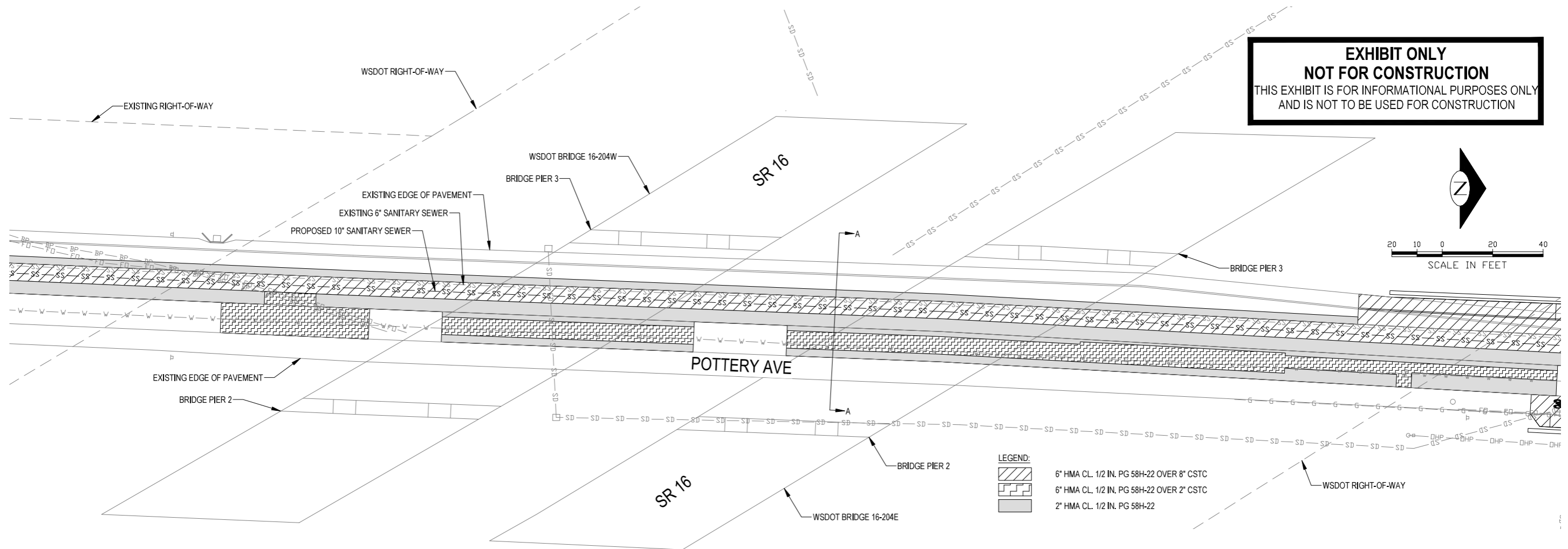


POTTERY AVE NON-MOTORIZED IMPROVEMENTS
 WSDOT ROW EXHIBIT

PLAN NO.

SEC. 2 & 3 T.23N. R.1E. W.M.

EXHIBIT ONLY
NOT FOR CONSTRUCTION
 THIS EXHIBIT IS FOR INFORMATIONAL PURPOSES ONLY
 AND IS NOT TO BE USED FOR CONSTRUCTION



- LEGEND:**
- 6" HMA CL. 1/2 IN. PG 58H-22 OVER 8" CSTC
 - 6" HMA CL. 1/2 IN. PG 58H-22 OVER 2" CSTC
 - 2" HMA CL. 1/2 IN. PG 58H-22

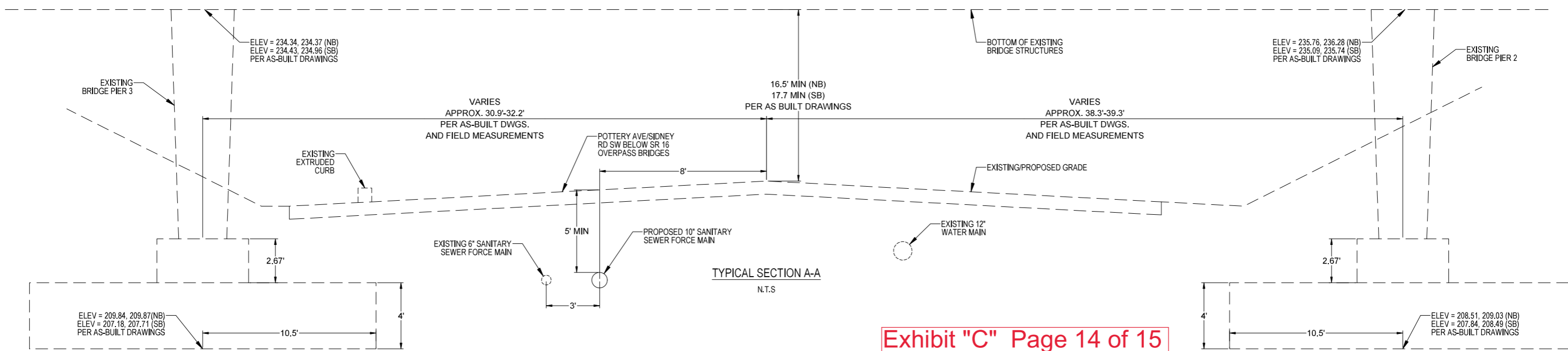
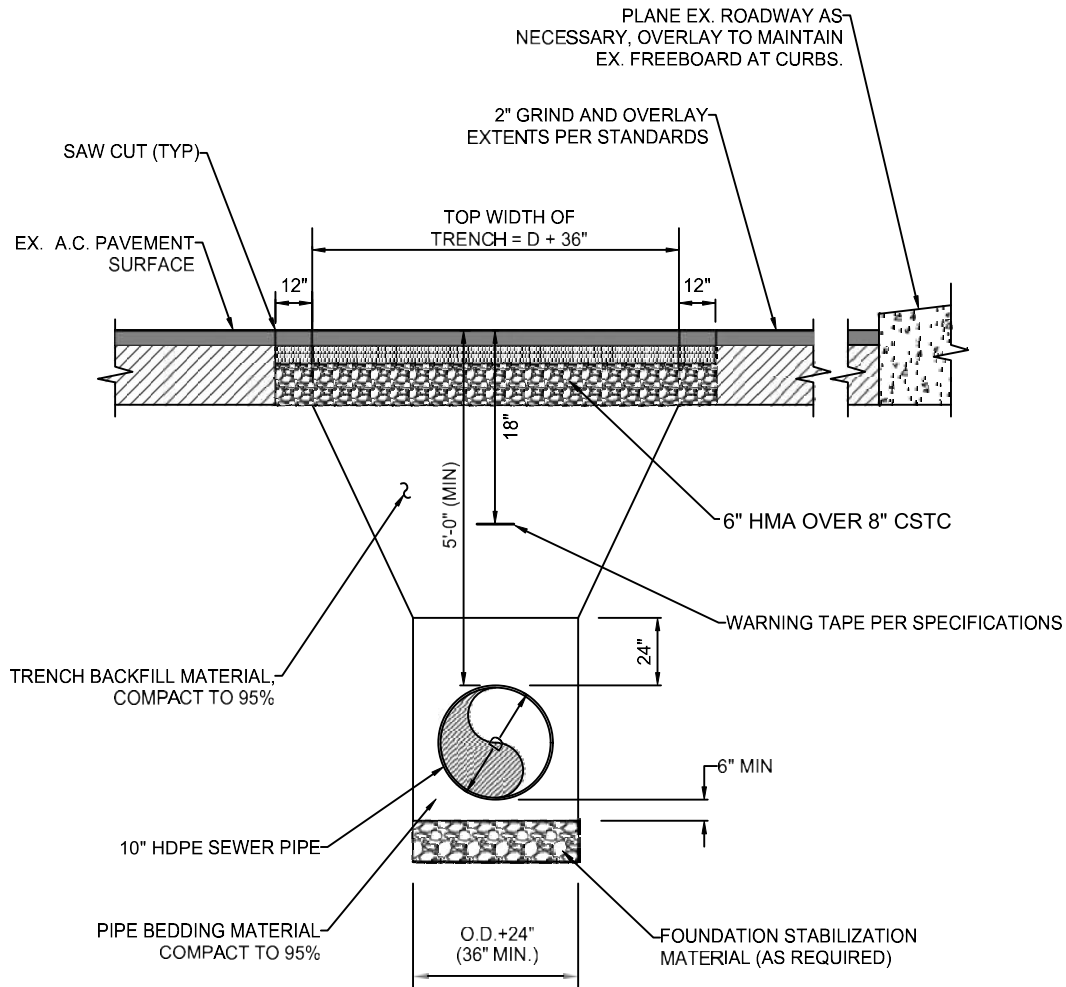


Exhibit "C" Page 14 of 15

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CITY OF PORT ORCHARD CAPITAL PROJECTS 216 PROSPECT STREET, PORT ORCHARD, WA 98366 PHONE: 360.876.4991		POTTERY AVE NON-MOTORIZED IMPROVEMENTS WSDOT BRIDGE EXHIBIT	PLAN NO.
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U:\ENGINEERING\DEVELOPMENT GUIDELINES\2018 UPDATE\STANDARD DETAILS\NEW STANDARDS\CAD FILES\900



NOTES:

- 1) BED THE ENTIRE WIDTH OF THE TRENCH PAVEMENT
- 2) RESTORATION SHALL BE PER THE APPROPRIATE SECTION IN CHAPTER 6 (PAVEMENT SURFACING).

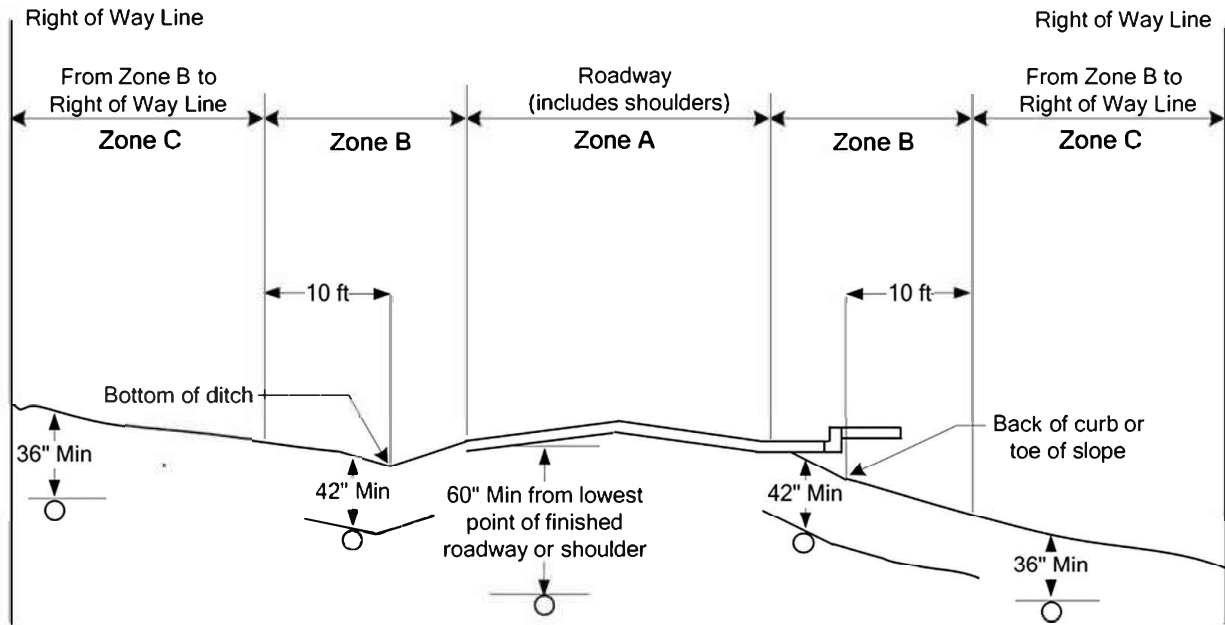
Exhibit "C" Page 15 of 15



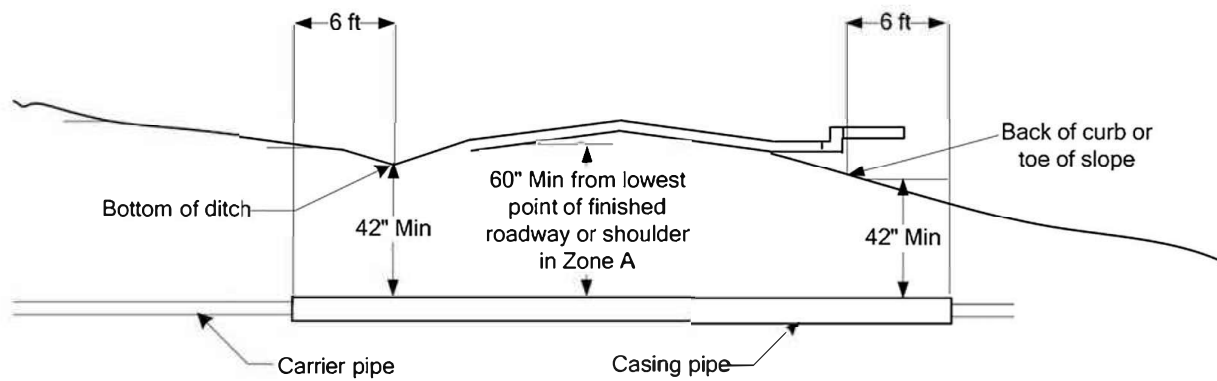
TRENCHES AND PIPE CONNECTIONS A

SEWER TRENCH DETAILS

DRAWN BY	IDS
DATE	1/23/2019
SCALE	NTS
DRAWING NUMBER	900



Longitudinal Coverage Detail

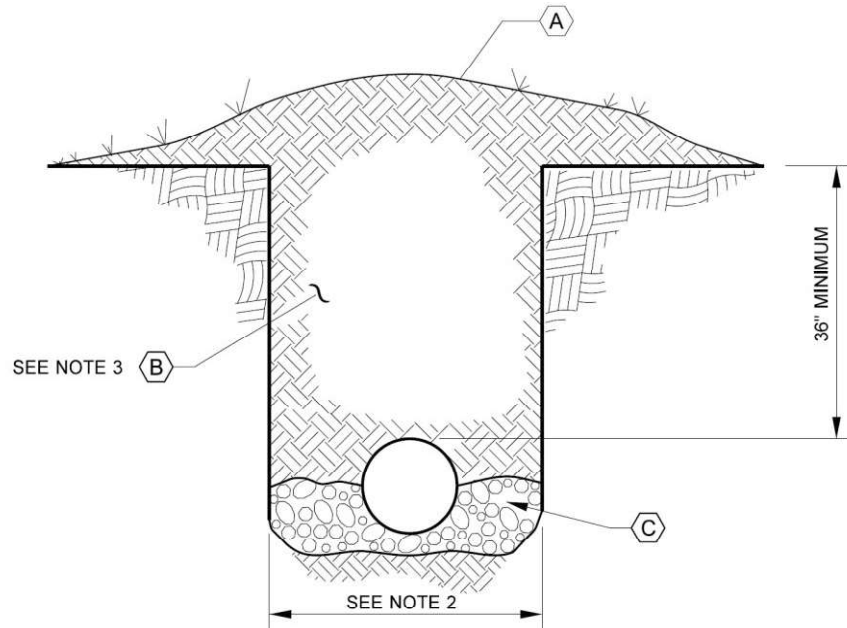


Note:
Casing pipes shall extend a minimum of 6 feet beyond the toe of fill slopes, or bottom of ditch line, or outside curb.

Crossing Coverage Detail

Minimum Cover for Pipe Installation

Figure 120-3



TRENCH CROSS SECTION

NTS

LEGEND

- A** Surface restoration will match existing adjacent treatment (seeding, bark, etc.).
- B** Native material or as directed by WSDOT.
- C** Bedding material beneath pipe/casing shall be six (6) inches. Additional pipe bedding shall be placed equal to half the diameter of the pipe/casing or six (6) inches, whichever is less.

GENERAL NOTES

1. Trenching and pipe installation shall meet the requirements of WSDOT Standard Specification 7-08.
2. Maximum trench width shall not exceed casing/pipe diameter plus an additional one (1) foot on either side.
3. Compaction shall be Method C per Standard Specification Section 2-03.3(14)C.
4. Casing pipes shall extend a minimum of six (6) feet beyond the toe of fill slopes, bottom of ditchline, or outside of curb.

Open Trench Detail

Figure 120-4b

Exhibit "E" Page 1 of 1

General Notes

All materials and workmanship shall be in accordance with the requirements of the state of Washington, Department of Transportation, Standard Specifications for Road, Bridge, and Municipal Construction, current edition. The utility conduits shall be labeled in accordance with Section 6-01.10.

All steel in utility supports, including fastenings and anchorages, shall be galvanized in accordance with AASHTO M-111 or M-232 (ASTM A-123 or A-153 respectively).

All utilities and utility support surfaces, including any galvanized utilities, shall be given a primer coat of state standard formula A-6-86 and two coats of state standard formula C-9-86. The final coat shall match the bridge color.

Galvanized metal or aluminum utilities completely hidden from public view may be exempted from the above painting requirements.

Any painted surfaces damaged during construction shall be cleaned and painted as noted above.

Any paint splatters shall be removed from the bridge.

Appearance of the utility installation shall be given serious consideration in all cases. Where possible, the utility installation shall be hidden from public view.

The notes and criteria explained here are presented as a guide only. Each proposed utility installation shall be submitted to the Department of Transportation for approval on an individual basis. Compliance with these criteria does not assure approval, nor does variance from these criteria, for reasonable cause, necessarily exclude approval.

Design Criteria

1. Pipelines carrying volatile fluids through a bridge superstructure shall be designed by the utility company in accordance with WAC 480-93, Gas Companies - Safety, and Minimum Federal Safety Standard, Title 49 Code of Federal Regulations (CFR) Section part 192. WAC 468-34-210, Pipelines - Encasement, describes when casing is required for carrying volatile fluids across structures. Generally, casing is not required for pipelines conveying natural gas per the requirements of WAC 468-34-210. If casing is required, then WAC 468-34-210 and WAC 480-93-115 shall be followed.
2. Utilities shall not be attached above the bridge deck nor attached to railing or rail posts.
3. Utilities shall not extend below bottom of superstructure.

4. The utilities shall be provided with suitable expansion devices near bridge expansion joints and/or other locations as required to prevent temperature and other longitudinal forces from being transferred to bridge members.
5. Rigid conduit shall extend 10 feet (3 meters) minimum, beyond the end of the bridge abutment.
6. Utility supports shall be designed such that neither the conduit, the supports, nor the bridge members are overstressed by any loads imposed by the utility installation.
7. Utility locations and supports shall be designed so that a failure (rupture, etc.) will not result in damage to the bridge, the surrounding area, or be a hazard to traffic.
8. Conduit shall be rigid.

(Items 1 through 8 may be cross-referenced with Bridge Design Manual, Utilities Section.)

9. Lag screws may be used for attaching brackets to wooden structures. All bolt holes shall meet the requirements of Sections 6-04.3(4) and 6-04.3(5) of the Washington State Department of Transportation Standard Specifications for Road, Bridge, and Municipal Construction, current edition.
10. Welding across main members will not be permitted. All welding must be approved.
11. Utilities shall be located to minimize bridge maintenance and bridge inspection problems.
12. Attach conduits or brackets to the concrete superstructure with resin bond anchors. Lag screws shall not be used for attachment to concrete.
13. Drilling through reinforcing steel will not be permitted. If steel is hit when drilling, the anchorage location must be moved and the abandoned hole filled with nonshrink grout conforming to the requirements of Section 9-20.3(2) and placement shall be as required in Section 6-02.3(20) of the Washington State Department of Transportation Standard Specifications for Road, Bridge, and Municipal Construction, current edition.
14. There shall be a minimum of 3 inches (80 millimeters) edge distance to the center line of bolt holes in concrete.
15. All utilities and utility supports shall be designed not only to support their dead load but to resist other forces from the utility (surge, etc.) and wind and earthquake forces. The utility company may be asked to submit one set of calculations to verify their design forces.
16. Drilling into prestressed concrete members for utility attachments shall not be allowed.
17. Water or sewer lines to be placed lower than adjacent bridge footings shall be encased if failure can cause undermining of the footing.

**NOTIFICATION OF MAINTENANCE & CONSTRUCTION OPERATIONS
WITHIN STATE RIGHT OF WAY**

WSDOT Olympic Region - Clallam, Grays Harbor, Jefferson, Kitsap,
Mason, Pierce, and Thurston Counties

*****This notification must be emailed to OlympicRegionUtilities@wsdot.wa.gov,
by 12p.m., Wednesday the week prior to the week the work is scheduled*****

WSDOT Utility Contact: _____ Date: _____

Utility Owner: _____ Utility's Contractor: _____

Contact: _____ Contact: _____

Phone: _____ Phone: _____

Email: _____ Email: _____

Field Contact: _____ Field Contact: _____

Phone: _____ Phone: _____

Email: _____ Email: _____

Maintenance Work

Permit/Franchise Number: _____ Expiration Date: _____

State Route: _____ Begin MP: _____ End MP: _____ County: _____

Work Description: _____

Start Date: _____ End Date: _____ Start Time: _____ End Time: _____

Work Days: Mon Tue Wed Thur Fri Sat Sun

Traffic Control

Direction: NB SB EB WB [Link to Pre-Approved Traffic Control Plans](#)

Closure Type / Comments: _____

Please submit TCP(s) with this notification form.

Note: Work requiring lane restrictions, access break approval, or other unique situations may require a longer advance notification.
Any deviations to WSDOT pre-approved Traffic Control Plans will require approval from the Olympic Region Traffic Office.

Utility Rep Signature: _____ Date: _____

WSDOT Approval: _____ Date: _____

You are required to notify Olympic Radio at (253) 538-3300 immediately prior to and after lane closures each day.