

Contract Provisions and Plans

For Construction of:

THE NORTHERN STATE RECREATION AREA TRAILHEAD AND PARK PROJECT #RCO 18-1609

SKAGIT COUNTY PARKS DEPARTMENT



SCOPE OF WORK

Northern State Recreation Area Trailhead and Park Project

#RCO 18-1609



This contract provides for the improvements at NSRA Trailhead and Park. This work includes but is not limited to; excavation and construction of a new grass-lined swale from the north trail heading south, stripping of sod and processing of topsoil by roto tilling, erosion control, embankment construction and compaction, capping sod disposal fill areas with topsoil, structure installation, seeding by hand, construction of new gravel surface ADA trail, construction of bicycle rack, hitching post, park benches, picnic tables over concrete pads, installation of water line for domestic and irrigation use, construction of a gravel pull through style RV pad with water, sewer, and electrical hookups, installation of 4" sewer service, construction of gravity rock wall, saw cutting and removal of existing chip/seal pavement and installation of ADA concrete parking pad, construction of concrete and paver stone plaza for Veteran's memorials including benches, memorial walls, flag poles, up-lights, sidewalks, rounded rail fencing and other work, all in accordance with the attached Contract Plans, these Contract Provisions, and the 2022 Standard Specifications.

Schedule: All work is to be completed between June 1 and September 30. The project shall be physically completed within 85 working days.

Measurement & Payment: Each item will be per the bid proposal.

**Northern State Recreation Area Trailhead and Park Project
#RCO 18-1609**

**2022
Skagit County
Department of Parks and Recreation
Mount Vernon, Washington 98273-5625**

NOTICE TO ALL PLAN HOLDERS

Copies of the plans and specifications are available at Skagit County Parks and Recreation, 1730 Continental Place, Mount Vernon, WA 98273-5625. Telephone: (360) 416-1350. You may receive the bid information electronically; copies of the plans and specifications are available at: <http://www.skagitcounty.net/rfp>

APPROVED:



Brian Adams
Parks and Recreation Department Director

PLANS AND SPECIFICATIONS APPROVED:

**BOARD OF COUNTY COMMISSIONERS
SKAGIT COUNTY, WASHINGTON**



Peter Browning, Chair



Ron Wesen, Commissioner



Lisa Janicki, Commissioner

**NORTHERN STATE RECREATION AREA
TRAILHEAD AND PARK PROJECT
#RCO 18-1609**

SPECIAL PROVISIONS SPECIFICATIONS

CERTIFICATION

I hereby certify that these contract documents were prepared by me or under my direct supervision, and that I am a duly registered Professional Engineer or Licensed Landscape Architect under the laws of the State of Washington.

John B. Semrau, P.E. & PLS

Semrau Engineering and Surveying
2118 Riverside Drive, Suite 208
Mount Vernon, WA 98273

Sections:

2-01, 2-02, 2-03, 4-03, 4-04, 7-18, 8-01,
8-04, 8-24, 8-26, 8-27, 8-28, 8-30, 8-31,
9-03, 9-13, 9-14

Project Engineer for site grading, swale,
embankment, TESC, water, & sewer
utility design, and responsible for
associated sections of this document.

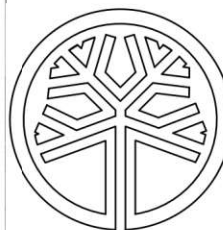
Patrik Dylan, PLA

eccosDesign LLC
Landscape Architecture and Planning
505 South First Street, Suite B
Mount Vernon, WA 98273

Sections:

03 35 19, 03 35 33, 04 05 13, 04 43 00,
05 70 00, 12 93 00, 32 14 00, 32 80 00,
32 93 00

Landscape Architect for recreational
improvements, memorial plaza,
memorial plaza design, planting
design, irrigation design, and
responsible for associated sections of
this document.



STATE OF
WASHINGTON
REGISTERED
LANDSCAPE ARCHITECT

PATRIK DYLAN
CERTIFICATE NO. 793

3/28/22

NOTICE OF CALL FOR BIDS

NOTICE IS HEREBY GIVEN by SKAGIT COUNTY that sealed bids will be received and publicly opened in the Commissioners' Hearing Room, 1800 Continental Place, Mount Vernon, WA 98273 on **Monday, May 9, 2022 at the hour of 2:30 p.m.**, or as soon thereafter as possible, for the following construction work:

Attendance will be in-person or remote by computer, tablet or smartphone:

<https://bit.ly/SkagitBoCCMtg> or by telephone: 1 (253) 215-8782 Meeting ID: 871 8000
1980 Passcode: 143573.

PROJECT DESCRIPTION: Northern State Recreation Area (NSRA) Trailhead and Park Project #RCO 18-1609

This contract provides for the improvements at NSRA Trailhead and Park. This work includes but is not limited to; excavation and construction of a new grass-lined swale from the north trail heading south, stripping of sod and processing of topsoil by roto tilling, erosion control, embankment construction and compaction, capping sod disposal fill areas with topsoil, structure installation, seeding by hand, construction of new gravel surface ADA trail, construction of bicycle rack, hitching post, park benches, picnic tables over concrete pads, installation of water line for domestic and irrigation use, construction of a gravel pull through style RV pad with water, sewer, and electrical hookups, installation of 4" sewer service, construction of gravity rock wall, saw cutting and removal of existing chip/seal pavement and installation of ADA concrete parking pad, construction of concrete and paver stone plaza for Veteran's memorials including benches, memorial walls, flag poles, up-lights, sidewalks, rounded rail fencing and other work, all in accordance with the attached Contract Plans, these Contract Provisions, and the 2022 Standard Specifications.

All work is to be completed between June 1 and September 30. The project shall be physically completed within 85 working days. The Engineer's Estimate is \$678,000.

Contractor and all subcontractors shall have a contractor's license to work in the State of Washington.

Information, copies of maps, plans, specifications, and addenda for this project will be available on-line beginning **April 14, 2022** at <http://www.skagitcounty.net/rfp> or obtained at Skagit County Parks Department, 1730 Continental Place, Mount Vernon, WA 98273-5625; (360) 416-1350. Contractors who download plans and specifications are advised to e-mail mahenry@co.skagit.wa.us to be added to plan holders list to receive any addenda that may be issued.

An optional, non-mandatory pre-bid meeting will be held Wednesday, April 27, 2022 at 10:00 a.m. at the **NSRA Trailhead and Park parking area, 25749 Helmick Rd, Sedro Woolley, WA**. All technical questions regarding this project are to be submitted **no later than 4:30 p.m., Friday, April 29, 2022** in writing to Brian Adams, Project Manager, or by e-mail to briana@co.skagit.wa.us with the subject line reading, **"NSRA Trailhead and Park Project #RCO 18-1609"**. All project specific questions and response to answers for this project will be available on-line as received. **All Addenda will be posted on-line for this project by 5:00 p.m. Friday, May 6, 2022.** If further Addenda are required, the bid opening may be postponed. All bid envelopes must be plainly marked on the outside, **"Sealed Bid for NSRA Trailhead and Park Project #RCO 18-1609"**. Sealed bids shall be received by one of the following delivery

methods before **Monday, May 9, 2022 at the hour of 2:30 p.m.** Proposals are to be submitted on the forms provided in the Bid Proposal Packet. Incomplete proposals and proposals received after the time fixed for the opening cannot be considered. Oral, telephonic, telegraphic, electronic or faxed proposals will not be accepted. All bidding shall be based upon compliance with the Contract Provisions and Plans.

1. **Hand delivered:** Bids delivered in person shall be received only at the office of the SKAGIT COUNTY COMMISSIONERS, Reception Desk, 1800 Continental Place, Suite 100, Mount Vernon, WA 98273-5625.
2. **Via mail:** Bids shall be mailed to the SKAGIT COUNTY COMMISSIONERS, 1800 Continental Place, Suite 100, Mount Vernon, WA 98273-5625.

BID GUARANTY: No bid will be considered unless accompanied by a surety company bid bond, or a certified or cashier's check payable to the order of Skagit County for a sum not less than five percent (5%) of the total amount of the bid. A Contract Bond covering performance and payment will be required with the contract. Washington State Prevailing Wage Rates apply to this contract and bidders are advised to consider this charge when tabulating bids.

Skagit County reserves the right to reject any or all bids, and the right to waive any informalities or irregularities in any bid or in any bidding and to further award the Project to the lowest, responsive, responsible bidder whose bid complies with all of the prescribed formalities, as it best serves the interest of Skagit County. After the date and hour set for the opening of bids, no bidder may withdraw its bid unless the award of the contract is delayed for a period exceeding sixty (60) calendar days following bid opening. All bidders agree to be bound by their bids until the expiration of this stated time period.

Skagit County 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 ensure that in any contract entered into pursuant to this advertisement, disadvantaged business enterprises as defined at 49 CFR Part 26 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, national origin, or sex in consideration for an award.

For questions regarding Skagit County's Title VI Program, you may contact the Public Works Department's Title VI Liaison, Grace Kane, P.E., at (360) 416-1400

The Board of Skagit County Commissioners reserves the right to reject any or all bids.

NOTICE GIVEN BY ORDER OF THE BOARD OF SKAGIT COUNTY COMMISSIONERS this
11 day of April, 2022.



Clerk of the Board

Published: Skagit Valley Herald – April 14 and April 21, 2022

SKAGIT COUNTY PARKS AND RECREATION NSRA TRAILHEAD AND PARK

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Division 2 Earthwork

2-01 Clearing, Grubbing, and Roadside Cleanup

2-01.3(2) Grubbing

Add items 3 & 4 as follows:

3. In areas designated "Stripping" on the Plans, the Contractor shall strip to the listed depth and area of sod from the site in preparation for planned improvements, with the sod, sod and other material removed being transported to and placed in the Plan designated "fill areas" to be covered by sod-free 2" of topsoil.
4. In areas designated "Stripping and Roto tilling" on the Plans, Contractor shall rototill the sod and soil before stripping to create the "Topsoil Type B". The Contractor shall strip the Type B topsoil and stockpile on-site until it is placed where specified. This "Topsoil Type B shall be free of any gravel, Concrete, or any woody material per specification.

2-02 Removal of Structures and Obstructions

2-02.4 Measurement

Section 2-02.4 is supplemented with the following:

Saw cutting the existing pavement will be measured by the linear foot along the surface being cut.

2-02.5 Payment

Section 2-02.5 is supplemented with the following:

"Saw Cutting" per linear foot

The unit contract price per linear foot for "Saw cutting" shall be full pay for all costs necessary to complete the work as specified regardless of depth encountered or the material to be cut, including collection, removal, and disposal of slurry.

2-03 Roadway Excavation and Embankment

2-03.4 Measurement

Section 2-03.4 is modified by removing "ditch excavation" from the list in the first sentence and supplementing the section with the following:

Ditch excavation will be measured by lump sum.

2-03.5 Payment

Section 2-03.5 is modified to read:

"Ditch Excavation", per lump sum.

**Division 4
Bases**

Section 4-3 is Vacant. Replace with the Following:

4-03 Gravel Borrow

4-03.1 Description

This Work shall consist of constructing one or more layers of gravel borrow upon a prepared Subgrade in accordance with these Specifications and in conformity with the lines, grades, depth, and typical cross-section shown in the Plans or as established by the Engineer.

4-03.2 Materials

Materials shall meet the requirements of the following section:

Gravel Borrow 9-03.14(1)

4-03.3 Construction Requirements

Gravel borrow shall be uniformly spread upon the prepared Subgrade to the depth, width, and cross-section shown in the Plans. Construction methods used shall meet the applicable requirements of Sections 4-04.3.

4-03.4 Measurement

Gravel borrow will be measured by the ton.

4-03.5 Payment

Payment will be made for the following Bid item when shown in the Proposal: "Gravel Borrow", per ton.

4-04 Ballast and Crushed Surfacing

4-04.2 Materials

Add material to section

Stone Sand 9.03.9(5)

4-04.4 Measurement

Add to end of section

Stone Sand will be measured by the ton.

4-04.5 Payment

Add to the end of section,

“Stone Sand”, per ton.

Division 7
Drainage Structures, Storm Sewers, Sanitary Sewers, Water Mains, and Conduits

7-18 Side Sewers

7-18.1 Description

Modify this section as follows:

This work consists of constructing the sanitary sewer line in accordance with the Plans, these Specifications, and Standards Plans, as staked for the existing septic pump tank to the new RV pad, including the 2'x2' concrete surround pad with cap.

7-18.4 Measurement

Replace the existing text of the section with the following:

Measurement shall be by lump sum.

7-18.5 Payment

Replace the existing text of the section with the following:

Payment shall be made for the bid item by lump sum.

**Division 8
Miscellaneous Construction**

8-01 Erosion Control and Water Pollution Control

8-01.3 Construction Requirements

8-01.3(11) Outlet Protection

Modify the section by added the following after the first paragraph:

For the outfall of the new 12" dia culvert under the existing north/east walking path, the energy dissipator will be constructed of 4"x2" crushed rock over geotextile and compacted subgrade. All material shall meet the modified gradation requirement in Section 9-13.1(5) SP which limits the max size to under 4".

8-01.4 Measurement

Delete the first line of Section 8-01.4 and supplement with the following:

"Erosion/Water Pollution Control" shall be measured per lump sum.

"High Visibility Fencing" shall be measured by linear foot of installation.

8-01.5 Payment

Delete the second line of Section 8-01.5 and supplement with the following:

"Erosion/Water Pollution Control" shall be paid per lump sum.

"High Visibility Fencing" shall be paid by linear foot.

8-04 Curbs, Gutters, and Spillways

8-04.3 Construction Requirements

Replace 8-04.3(3) with the following section:

8-04.3(3) Concrete Wheel Stops

Contractor shall furnish precast concrete wheels stops consistent with details shown in the Contract drawings. Contractor may propose alternate wheel stops, and shall do so via submittal. Unless otherwise approved, wheel stops shall meet the requirements of the Contract drawings.

8-04.4 Measurement

This section is supplemented with the following:

“Concrete Wheel Stops” shall be measured by count of each installed precast concrete wheel stop.

8-04.5 Payment

This section is supplemented with the following:

Payment for “Concrete Wheel Stops” shall be made per each completely installed unit. Payment shall be full compensation for all labor, material, equipment and tools necessary to install a complete unit as shown on the Contract drawings.

8-24 Rock and Gravity Block Wall and Gabion Cribbing

Replace Sections 8-24.4 and 8-24.5 with the following:

8-24.4 Measurement

“Gravity Rock Wall” shall be measured by linear feet of complete wall as measured by survey and staking of the alignment.

8-24.5 Payment

Payment for “Gravity Rock Wall”, per linear foot shall be full compensation for all labor, materials, equipment and tools necessary to furnish a complete wall, including structure excavation, and quarry spall backfill, as shown in the Contract drawings and in accordance with the Contract specifications.

8-26 Vacant

Replace 8-26 with the following section:

8-26 Rounded Post Fence

8-26.1 Description

This work consists of furnishing and constructing wood rail fence of the types specified in accordance with the Plans, these Specifications and industry standard at the locations shown in the Plans.

Wood rail fence shall consist of treated wood. The wood rail fence shall be consistent with the 2-rail "Western" style round rail system.

8.26.2 Materials

All fence material shall consist of treated wood free of loose knots, cracks and other imperfections compromising overall strength and integrity of the wood. All wood material shall be free of rot or bug damage.

Fence posts shall consist of minimum 60-inches long and a diameter of 6".

Fence rails shall be 8'-ft long and a diameter of 4".

Fence rails and posts to be stained with Penofin Penetration Oil Finish "For Treated Wood". Color-Yosemite.

8.26.3 Construction Requirements

Grading of the fence line may be required to prevent abrupt breaks in ground that are not consistent with the fence rail profile. Posts shall be installed in a strategic manner such that the rail profiles are as parallel with the ground as possible. Rail sections shorter than 8-ft may be required to attain satisfactory performance of the fence with respect to the adjacent topography grading.

Contractor shall follow the typical rail fence installation configuration shown in the Contract drawings. Fence posts shall be installed plumb into undisturbed or properly compacted soils.

All posts shall be set plumb and backfilled with compacted Crushed Surfacing Top Course.

8.26.4 Measurement

Measurement for payment of bid item "Rounded Post Fence" shall be by linear foot of completely installed rounded post fence.

8.26.5 Payment

Payment for "rounded post fence" shall be per linear foot of complete fence installation. Payment for this work shall be full compensation for all labor, materials, equipment and tools necessary for post-hole excavation, handling and disposal of materials, backfill with Crushed Surfacing Top Course installation and other incidentals required for complete installation of the fence along the lines and grades shown in the Contract drawings.

8-27 Vacant

Replace 8-27 with the following section:

8-27 Unanticipated Site Work

8-27.1 Description

Unanticipated site work shall be performed at locations designated by the Engineer, and at locations proposed by the Contractor and approved by the Engineer.

8-27.3 Construction Requirements

The Contractor and the Contracting Agencies' representative or Engineer shall reconcile the hours of work of labor and equipment on a daily basis for the purpose of tracking all work under this item. The Contractor shall supply the Engineer with material invoices for all materials incorporated into this work in a timely manner. Invoices shall be original or copies of original invoices from the material supplier.

8-27.4 Measurement

Work performed under item "Unanticipated Site Work" shall be measured in accordance with Section 1-09.6 force account.

8-27.5 Payment

Payment will be made in accordance with Section 1-04.1. for the following bid item: "Unanticipated Site Work", by force account as provided in Section 1-09.6. To provide for a common proposal for all bidders, the Contracting Agency has entered an amount in the proposal to become a part of the Contractor's total bid.

8-28 Vacant

Replace 8-28 with the following section:

8-28 Bollards

8-28.1 Description

This work shall consist of furnishing and installing steel bollards in accordance with the Plans, Standard Plans, and these Specifications, at the locations shown in the Plans or as staked by the engineer.

8-28.2 Materials

The bollards, foundation, stripping, and reinforcement should be constructed per WSDOT Standard Plan H-60.20-01 for "Bollard Type 2" that is included in the standard drawings section of the contract documents.

8-28.3 Construction Requirements

The bollards shall be placed per the plan dimensions or as staked by the Engineer to provide protection to the RV utilities. The posts shall be installed set plumb in their concrete footing, with the top of the concrete footing grade matching the surrounding CSTC grade.

8-28.4 Measurement

Measurement for payment of bid item "Bollards" shall be by the number of each bollard installed.

8-28.5 Payment

Payment for "Bollards" shall be per each bollard completely installed and shall include the cost of any excavation, material disposal, and furnishing all labor, material, and equipment necessary to satisfactorily complete the work. The costs for site preparation and concrete foundation, including steel bar or mesh, shall be included in the cost of this payment item.

Add 8-30

8-30 Hog Fuel Path

8-30.1 Description

This work constructing a “hog fuel” path for access to the site by horses, as shown on the plan sheets. This material acts as a “sacrificial” surface for horses from the parking lot to the trail.

8-30.2 Materials

The material for the horse trail, hog fuel, is a broad term for wood residue and waste product processed through a chipper or mill into coarse chunks with a grading from 5” to 2”. For this project, an acceptable substitute for hog fuel is the “arborist mulch” as sold by Skagit Soils in Mount Vernon.

8-30.3 Construction Requirements

The Contractor is to remove 3” of sod from the area of the Plans designated as the walking path, processing this material from placement in the designated fill areas. The subgrade is to then be compacted and a 6” thick layer of hog fuel is to be distributed and compacted into place.

8-30.4 Measurement

Measurement for payment of bid item “Hog Fuel Path” shall be by cubic yard of placed hog fuel mulch or alternative as approved by architect.

8-30.5 Payment

Payment for “Hog Fuel Path” shall be per cubic yard of placed material and shall include the cost of the stripping of sod, compaction of the subgrade, the wood material and haul, placement and compaction of wood material, and all labor, materials, and equipment necessary to satisfactorily complete the work.

Add 8-31

8-31 Temporary Construction Fencing

8-31.1 Description

This work consists of installing chain link fence panels, such as commonly available at construction equipment rental agencies, on the site at the plan designated areas to secure construction areas from pedestrian access. Skagit County Parks will attach relevant signage.

8-31.2 Materials

Materials shall be assembled 6' tall x 8' long chain link fence panels with top and bottom rails with included feet at each end to allow for panel to free-stand or link together with adjacent panels. The chain link fence is to be made of galvanized steel and suitable for its intended purpose. No twisted wire is to protrude on the outside of the fence. Any gates must close tightly with no gaps in or around them.

8-31.3 Construction Requirements

The Contractor is responsible for the installation, maintenance of, and removal once the need has ceased. The Contractor is to ensure that all construction fencing is correctly anchored in place, with special review procedure in place when excessive/high winds are anticipated. Any corrective measures are to be made at the Contractors expense.

8-31.4 Measurement

Measurement of payment for bid item "Temporary Construction Fencing" shall be lump sum for fencing installed.

8-31.5 Payment

Payment for "Temporary Construction Fencing" shall be lump sum for installed fencing and shall include delivery, setup, removal, and all labor, material, and equipment necessary to install, remove, and maintain said fence.

**Division 9
Materials**

9-03 Aggregates

Add Section 9-03.9(5) with the following:

9-03.9(5) Stone Sand

Stone Sand shall meet all requirements of [Section 9-03.9\(3\)](#) for crushed surfacing top course except that it shall meet the following specifications for grading:

Sieve Size Percent Passing

3/8" 100-100

No. 4 76-100

No. 10 30-60

No. 200 0-10

All percentages are by weight

9-13 Riprap, Quarry Spalls, Slope Protection, and Rock for Erosion and Scour Protection and Rock Walls

9-13.1 Riprap and Quarry Spalls

Modify Section 9-13.1(5) with the following:

9-13.1(5) Quarry Spalls

Quarry Spalls shall meet the following requirements for grading:

Sieve Size Percent Passing

8" 100

4" 100

3" 40 max

3/4" 10 max

9-14 Erosion Control and Roadside Planting

Replace Section 9-14.1(1) with the following:

9.14.1(1) Topsoil Type A

Type A topsoil shall be imported material meeting the requirements under soil notes on Sheet LP-2 and Section 32 93 00-Landscape Planting and Materials.

Measurement for payment of bid item "Topsoil Type A" shall be by cubic yard of placed material.

Payment for "Topsoil Type A" shall be by cubic yard of placed material. Payment for work shall be full compensation for all labor, materials, equipment, hauling, handling, and disposal of material.

9.14.1(2) Topsoil Type B

Replace the second paragraph of Section 9-14.1(2) with the following:

Contractor shall prepare Type B topsoil on-site. Type B topsoil shall be native sod and topsoil that has been rototilled prior to excavation or stripping. Topsoil shall be free of gravel, concrete, and woody material per specifications.

Measurement for payment of bid item "Topsoil Type B" shall be by cubic yard of placed material.

Payment for "Topsoil Type B" shall be by cubic yard of placed material. Payment for work shall be full compensation for all labor, materials, equipment, hauling, handling, and disposal of material.

SECTION 03 35 19 - ACCENT CONCRETE FINISHING

PART 1 - GENERAL

1.1 SUMMARY

- A. Section includes integrally colored concrete sidewalks and walls.
- B. Related Requirements:
 - 1. "Cast in place Concrete" for general requirements of concrete and specification of surface finishes.
 - 2. SECTION 03 35 33 Stamped Concrete Finish

1.2 REFERENCES

- A. American Concrete Institute (ACI):
 - 1. ACI 302 IR "Recommended Practice for Concrete Floor and Slab Construction."
 - 2. ACI 303.1 "Standard Specification for Cast-In-Place Architectural Concrete."
 - 3. ACI 304 "Recommended Practice for Measuring, Mixing, Transporting and Placing of Concrete."
 - 4. ACI 305R "Recommended Practice for Hot Weather Concreting."
 - 5. ACI 306R "Recommended Practice for Cold Weather Concreting."
- B. American Society of Testing and Materials (ASTM):
 - 1. ASTM C309 "Liquid Membrane-Forming Compounds for Curing Concrete."
 - 2. ASTM C494 "Standard Specification for Chemical Admixtures for Concrete."
 - 3. ASTM C979 "Standard Specification for Pigments for Integrally Colored Concrete."

1.3 SUBMITTALS

- A. Product Data: Submit manufacturer's complete technical data sheets for the following:
 - 1. Colored admixture.
 - 2. Curing compound.
 - 3. Concrete Sealant
- B. Samples for Initial Selection:
 - 1. Manufacturer's color charts showing full range of colors available.
- C. Qualification Data: For firms indicated in "Quality Assurance" Article, including list of completed projects.

1.4 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Manufacturer with 10-years experience in manufacture of specified products.
- B. Installer Qualifications: An installer with 5+ years experience with work of similar scope and quality.
- C. Obtain each specified material from same source and maintain high degree of consistency in workmanship throughout Project.
- D. Integrally Colored Concrete Mock-up:
 - 1. At location on Project approved by Owner, place and finish an approximate 10 feet by 10 feet area of each of color and finish to be used on the project. Picnic table pads are an acceptable option for an in-situ mock up location.
 - 2. For accurate color, the quantity of concrete mixed to produce the sample should not be less than 3 cubic yards (or not less than 1/3 the capacity of the mixing drum on the ready-mix truck) and should always be in full cubic yard increments. Excess material shall be discarded according to local regulations or used in non-visible locations of the project.
 - 3. Construct sample panel using processes and techniques intended for use on permanent work, including curing procedures.
 - 4. Fifty percent (50%) of the mock-up shall have final sealer applied to demonstrate sealed/unsealed condition.
 - 5. Include samples of control, construction, and expansion joints in sample panels.
 - 6. Mockup shall be produced by the individual workers who will perform the work for the Project.
 - 7. Retain samples of cements, sands, aggregates and color additives used in mockup for comparison with materials used in remaining work.
 - 8. Accepted mockup provides visual standard for work of Section.
 - 9. Mockup shall remain through completion of work for use as a quality standard for finished work.
 - 10. OWNER MUST APPROVE MOCK UP AND MAY REQUEST SECOND MOCK-UP FOR COMPARISON. CONTRACTOR TO PROVIDE SUFFICIENT TIME AND COST ALLOWANCE FOR SECOND MOCK UP SHOULD OWNER REQUIRE.
 - 11. Remove mockup when directed.

1.5 DELIVERY, STORAGE, AND HANDLING

- A. Products shall be delivered in original factory packaging, unopened and undamaged. Packaging will bear identification of product, manufacturer's identification and batch numbers. A technical information and MSDS should be available for each product throughout the project.

- B. Store the product in strict accordance with the manufacturer's recommendations in a location protected from damage, construction activity and weather conditions.

1.6 PROJECT CONDITIONS

- A. Integrally Colored Concrete Environmental Requirements:
 - 1. Schedule placement to minimize exposure to wind and hot sun before curing materials are applied.
 - 2. Avoid placing concrete if rain, snow, or frost is forecast within 24-hours. Protect fresh concrete from moisture and freezing.
 - 3. Comply with professional practices described in ACI 305R and ACI 306R.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Manufacturers: Solomon ColorFlo, Solomon Colors, Inc.
- B. Distributor: Concrete Nor'west, 663 Pease Road, Burlington WA 360-757-3121
- C. Requests for Substitutions will be considered in accordance with provisions of General Conditions.

2.2 MATERIALS

- A. Colored Admixture for Integrally Colored Concrete: Factory proportioned, mixed, and packaged.
 - 1. Colored additives shall contain pure, concentrated mineral pigments specially processed for mixing into concrete and complying with ASTM C979.
 - 2. Raw pigments are not an equivalent and may not be substituted.
- B. Fiber: Monofilament polypropylene micro fiber added integrally to mix. May be used in other areas at contractor discretion.

2.3 COLORS

- A. Concrete Colors
 - 1. Cement: Color shall be gray.
 - 2. Sand: Color shall be locally available natural sand.
 - 3. Aggregate: Concrete producer's standard aggregate complying with specifications.
 - 4. Flatwork Colored Admixture:
 - Integral Color Chart.
 - a. 'Concrete finish B – 920 Onyx'

- 1) Mixed in at a rate of 4.0% (standard for name Onyx)

2.4 CONCRETE MIX

- A. Supplemental admixtures shall not be used unless approved.
- B. Do not add water to the mix in the field.
- C. Add colored admixture to concrete mix according to manufacturer's written instructions.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Install concrete according to requirements Section "Cast-In-Place Concrete."
- B. Do not add water to concrete mix in the field.

3.2 FINISHING FORMED SURFACES

- A. Rough-Formed Finish: As-cast concrete texture imparted by form-facing material with tie holes and defects repaired and patched. Remove fins and other projections that exceed specified limits on formed-surface irregularities.
 1. Apply to concrete surfaces under masonry
- B. Smooth-Formed Finish: As-cast concrete texture imparted by form-facing material, arranged in an orderly and symmetrical manner with a minimum of seams. Repair and patch tie holes and defects. Remove fins and other projections that exceed specified limits on formed-surface irregularities.
 1. Apply to column and center wall concrete surfaces exposed to public view, or areas not covered by masonry, including wall "cap" and "ledge".
 2. Holes greater than $\frac{3}{4}$ " in ANY direction are to be patched. Fins projecting greater $\frac{1}{8}$ " are to be knocked off.
- C. Board Form Finish: As-cast concrete texture imparted by rough sawn lumber board oriented horizontally. Tie holes and defects repaired and patched. **Fins to remain** between boards.
 1. Apply to face of seating walls
- D. Related Unformed Surfaces: At tops of walls, horizontal offsets, and similar unformed surfaces adjacent to formed surfaces, strike off smooth and finish with a texture matching adjacent formed surfaces. Continue final surface treatment of formed surfaces uniformly across adjacent unformed surfaces unless otherwise indicated.

3.3 FINISHING FLOORS AND SLABS

- A. General: Comply with ACI 302.1R recommendations for screeding, restraighening, and finishing operations for concrete surfaces. Do not wet concrete surfaces.
- B. Float Finish: Consolidate surface with power-driven floats or by hand floating if area is small or inaccessible to power driven floats. Restraighten, cut down high spots, and fill low spots. Repeat float passes and restraighening until surface is left with a uniform, smooth, granular texture.
- C. Trowel Finish: After applying float finish, apply first troweling and consolidate concrete by hand or power-driven trowel. Continue troweling passes and restraighten until surface is free of trowel marks and uniform in texture and appearance. Grind smooth any surface defects that would telegraph through applied coatings or floor coverings.
 - 1. Finish and measure surface so gap at any point between concrete surface and an unleveled, freestanding, 10-ft.- long straightedge resting on two high spots and placed anywhere on the surface does not exceed 1/8 inch.
- D. Broom Finish: Apply a broom finish to exterior concrete platforms, steps, ramps, curbs and elsewhere as indicated.
 - 1. Pull broom across troweled concrete to produce light texture in straight lines perpendicular to main line of traffic. Do not dampen brooms.
- E. See related sections for Stamped Concrete Finish.

3.4 CONCRETE PROTECTING AND CURING

- A. General: Protect freshly placed concrete from premature drying and excessive cold or hot temperatures. Comply with ACI 306.1 for cold-weather protection and ACI 301 for hot-weather protection during curing.
- B. Evaporation Retarder: Apply evaporation retarder to unformed concrete surfaces if hot, dry, or windy conditions cause moisture loss approaching 0.2 lb/sq. ft. x h and during finishing operations. Apply according to manufacturer's written instructions after placing, screeding, and bull floating or darbying concrete, but before float finishing.
- C. Cure and seal concrete according to ACI 308.1, by the following methods:
 - 1. Broom Finish Flatwork: Apply uniformly to floors, curbs and slabs indicated in a continuous operation by brush, low pressure spray or roller according to manufacturer's written instructions.
 - a. Accepted Product: Penetrating silane cure and seal
 - b. Accepted manufacture: ChemMasters Silencure, 440-428-2105
- D. Curing and Sealing compound shall be same color as the colored concrete.
- E. Any visible brush strokes, spray strokes or evidence of uneven coating will be rejected and require the contractor to re-apply sealant.

- F. Do not cover concrete with plastic sheeting.

3.5 CONCRETE SURFACE REPAIRS

- A. Defective Concrete: Repair and patch defective areas when approved by Owners Representative. Remove and replace concrete that cannot be repaired and patched to Owner's approval.

END OF SECTION 03 35 19

SECTION 03 35 33 - STAMPED CONCRETE FINISH

PART 1 - GENERAL

1.1 SUMMARY

- A. Section includes concrete flatwork using liquid color release with stamp.
- B. Curing and Sealing
- C. Related Requirements:
 - 1. "Cast in place Concrete" – for general requirements of concrete
 - 2. SECTION 03 35 19 Accent Concrete Finishing

1.2 REFERENCES

- A. American Concrete Institute (ACI):
 - 1. ACI 302 IR "Recommended Practice for Concrete Floor and Slab Construction."
 - 2. ACI 303.1 "Standard Specification for Cast-In-Place Architectural Concrete."
 - 3. ACI 304 "Recommended Practice for Measuring, Mixing, Transporting and Placing of Concrete."
 - 4. ACI 305R "Recommended Practice for Hot Weather Concreting."
 - 5. ACI 306R "Recommended Practice for Cold Weather Concreting."
- B. American Society of Testing and Materials (ASTM):
 - 1. ASTM C309 "Liquid Membrane-Forming Compounds for Curing Concrete."
 - 2. ASTM C494 "Standard Specification for Chemical Admixtures for Concrete."
 - 3. ASTM C979 "Standard Specification for Pigments for Integrally Colored Concrete."

1.3 SUBMITTALS

- A. Product Data: Submit manufacturer's complete technical data sheets for the following:
 - 1. Color Release Agent.
 - 2. Include data on joint filler and admixtures
- B. Samples for Initial Selection: Manufacturer's color charts showing full range of colors available.
- C. Qualification Data: For firms indicated in "Quality Assurance" Article, including list of completed projects.

1.4 QUALITY ASSURANCE

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VETERANS PARK AT NSRA

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STAMPED CONCRETE
FINISHING

- A. Installer Qualifications: An installer with 3+ years experience with work of similar scope and quality.
- B. Obtain each specified material from same source and maintain high degree of consistency in workmanship throughout Project.
- C. Notification of manufacturer's authorized representative shall be given at least 1-week before start of Work.
- D. Colored and Stamped Concrete Mock-up:
 - 1. At location on Project selected by Owner, place and finish an approximate 3 feet by 5 feet area with specified colors, textures, and patterns.
 - 2. Construct sample panel using processes and techniques intended for use on permanent work, including curing procedures. Include samples of control, construction, and expansion joints in sample panels. Mockup shall be produced by the individual workers who will perform the work for the Project.
 - 3. Retain samples of cements, sands, aggregates and color additives used in mockup for comparison with materials used in remaining work.
 - 4. Fifty percent (50%) of the mock-up shall have final sealer applied to demonstrate sealed/unsealed condition.
 - 5. Accepted mockup provides visual standard for work of Section.
 - 6. Mockup shall remain through completion of work for use as a quality standard for finished work.
 - 7. Remove mockup when directed.

1.5 DELIVERY, STORAGE, AND HANDLING

- A. Products shall be delivered in original factory packaging, unopened and undamaged. Packaging will bear identification of product, manufacturer's identification and batch numbers. A technical information and MSDS should be available for each product throughout the project.
- B. Store the product in strict accordance with the manufacturer's recommendations in a location protected from damage, construction activity and weather conditions.

1.6 PROJECT CONDITIONS

- A. Stamped Concrete:
 - 1. Schedule placement to minimize exposure to wind and hot sun before curing materials are applied.
 - 2. Avoid placing concrete if rain, snow, or frost is forecast within 24-hours. Protect fresh concrete from moisture and freezing.
 - 3. Comply with professional practices described in ACI 305R and ACI 306R.

PART 2 - PRODUCTS

SKAGIT COUNTY
VETERANS PARK AT NSRA

03 35 33 - 2
STAMPED CONCRETE
FINISHING

2.1 MANUFACTURERS

- A. Manufacturers:
 - 1. PROline Concrete Stamps
 - 2. Solomon Colors ColorFlo Liquid Color
 - 3. Release and Cure Coat
 - a. QC Liquid Release
 - 4. Sealants - Gloss
 - a. ChemMasters
- B. Requests for Substitutions will be considered in accordance with provisions of General Conditions.

2.2 MATERIALS

- A. Stamping / Imprinting Tools and Accessories:
 - 1. Mat type imprinting tools for texturing freshly placed concrete, in SEAMLESS FLAMED GRANITE pattern
 - 2. Liquid Release designed to provide clean release of texturing tools and mats, provided in contrasting color.
- B. Liquid Integral Color
 - 1. 'Accent Band 1 – 920 Onyx'
- C. Release
 - 1. Liquid Release
 - a. Color – DARKEST BLACK
- D. Curing Coat; same manufacturer as release agent
- E. Sealants - Gloss
 - 1. ChemMasters TRAZ 25, 440-428-2105

2.3 JOINT FILLERS

- A. Non Asphaltic Joint Fillers: ASTM D1752, Type I
- B. Color to match concrete

2.4 CONCRETE MIX

- A. Supplemental admixtures shall not be used unless approved by manufacturer.
- B. Do not add water to the mix in the field.
- C. Add colored admixture to concrete mix according to manufacturer's written instructions.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Install concrete according to requirements Section "Cast-In-Place Concrete."
- B. Do not add water to concrete mix in the field.

3.2 FINISHING FLOORS AND SLABS

- A. Place concrete floors in accordance with ACI 301 and 302 and Section 03330.
- B. Uniformly spread, screed, and float concrete. Do not use grate tampers or mesh rollers. Do not spread concrete by vibration.
- C. Provide finishes to match approved samples at locations indicated.
- D. Apply materials in accordance with manufacturer's printed instructions.
- E. While concrete is still in its plastic state, Release Powder or Liquid Release should be applied to the imprinting tool and the surface of the colored concrete. Then apply the tool/texture pattern to the surface of the concrete. Properly tamp tools into the surface to achieve the required texture, with uniformity of pattern and depth of stamping. Utilize Release Powder or Liquid Release as a bond breaker to keep tools from sticking to fresh concrete.

3.3 CONCRETE PROTECTING AND CURING

- A. General: Protect freshly placed concrete from premature drying and excessive cold or hot temperatures. Comply with ACI 306.1 for cold-weather protection and ACI 301 for hot-weather protection during curing.
- B. Liquid release: For curing concrete treated with liquid release, contractor is to apply a curing compound applied per manufactures specifications
- C. Curing compound shall be clear and supplied by same manufacturer of the colored release.
- D. Do not cover concrete with plastic sheeting.
- E. Concrete Sealant
 - 1. Stamped Concrete: Apply uniformly to floors and slabs indicated in a continuous operation by brush, low pressure spray or roller according to manufacturer's written instructions.
 - 2. Contractor to provide TWO coats with full drying time between coats as manufacturer recommends

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STAMPED CONCRETE
FINISHING

3.4 CONCRETE SURFACE REPAIRS

- A. Defective Concrete: Repair and patch defective areas when approved by Owners Representative. Remove and replace concrete that cannot be repaired and patched to Owner's approval.

END OF SECTION 03 35 33

SECTION 04 05 13 – MASONRY MORTAR

PART 1 - GENERAL

1.1 SUMMARY

- A. Section includes mortar and grout for setting natural stone veneer.
- B. Related Requirements:
 - 1. Section 04 43 00 – NATURAL STONE VENEER.

1.2 ACTION SUBMITTALS

- A. Product Data: For each type of product.
- B. Selection Samples: Color charts for selection of pointing mortar.
- C. Installation Instructions: Manufacturer's printed instructions for each product.

1.3 QUALITY ASSURANCE

- A. Installer Qualifications: Firm specializing in installation of ceramic and/or stone tile, with minimum 5 years documented experience with projects of similar scope, design, and materials.
- B. Mock-Up: Provide a mock-up of each type of stone installation, using stone specified elsewhere and installation materials specified in this section; include at least one example of each type of accessory material and trim, for approval of quality of workmanship.

1.4 PROJECT CONDITIONS

- A. Maintain environmental conditions and protect work during and after installation to comply with referenced standards and manufacturer's printed recommendations.
- B. Vent temporary heaters to exterior to prevent damage to stone work from carbon dioxide build-up.
- C. Maintain temperatures at not less than 50 degrees F (10 degrees C) and not more than 100 degrees F (38 degrees C) in tiled areas during installation and for 7 days after completion, unless other temperatures are required by referenced installation standards or manufacturer's written instructions.

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MASONRY MORTAR

- D. Protect Portland cement based materials from direct sunlight, radiant heat, forced hot and cold ventilation and drafts until cured, to prevent premature evaporation of moisture. When installed at low temperatures allow for longer curing time and protect from damage until cured.

1.5 DELIVERY, STORAGE, AND HANDLING

- A. Deliver and store packaged materials in original containers with seals unbroken and labels intact until time of use. Prevent damage or contamination to materials by water, freezing, foreign matter or other causes.
- B. Store materials subject to damage by freezing or overheating, including latex, organic, and epoxy materials, at room temperature if possible.
- C. Deliver and store materials on site at least 24 hours before work begins.

1.6 WARRANTY

- A. Provide manufacturer's standard written 10-year warranty, covering materials and labor for replacement of defective materials.
- B. Provide Contractor's warranty that work will be free of defects in materials and workmanship for 10 years.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Acceptable Manufacturer: LATICRETE International, Inc., which is located at: 1 Laticrete Park N. ; Bethany, CT 06524-3423; Toll Free Tel: 800-243-4788; Tel: 203-393-0010; Email: request info (technicalservices@laticrete.com); Web: www.laticrete.com
- B. Requests for substitutions will be considered in accordance with General Provisions.
- C. Obtain products from a single manufacturer.

2.2 MATERIALS

- A. MASONRY VENEER MORTAR
 - 1. Laticrete Veneer Mortar: Polymer fortified, non sag, reinforced, mortar for exterior installation of thin stone veneer

B. MASONRY POINTING MORTAR

1. Laticrete Masonry Pointing Mortar: Factory prepared modified portland cement.
 - a. Color to match cast concrete as much as possible
 - b. Color to be chosen by owner's representative from contractor supplied color chart.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine surfaces to receive tile work and conditions under which tile will be installed.
- B. Do not proceed with stone / tile work until surfaces and conditions comply with requirements indicated in reference tile installation standard and manufacturer's printed instructions.
- C. Examine newly poured concrete closely to ensure that its finished surface contains no release agents (form oil), is free of dust, wax, grease, sealers, and other contaminants that may reduce or prevent adhesion.

3.2 PREPARATION

- A. If base does contain form oil or any contaminants that will interfere with adhesion, etch surface with muriatic acid, rinse thoroughly and/or score with wire brush. Other mechanical means of removing release agents (sandblasting) are acceptable.

3.3 INSTALLATION

- A. Install stone / tile in accordance with manufacturer's printed instructions and the applicable requirements of ANSI for the materials being used.
- B. Install expansion and control joints in accordance with TCNA method EJ171, located as indicated on drawings but not more than 16 feet (5 m) on center on exterior and wherever tile abuts restraining surfaces such as perimeter walls, curbs, columns, corners, and directly over cold joints and control joints in structural substrates.

3.4 GROUTING

- A. Grout joints in accordance with manufacturer's instructions and ANSI A108.10.
- B. Clean sanding water, dust, and foreign substances from joints to be grouted.
- C. Clean and dry stone surfaces.

- D. After grouting, remove all grout residues promptly.

3.5 CLEANING

- A. Clean excess mortar from surfaces with water as work progresses while mortar is fresh and before it hardens.
- B. Remove grout haze promptly; do not use acids.

3.6 PROTECTION

- A. Protect from freezing and total water immersion for at least 21 days after installation.
- B. Protect from impact, vibration and heavy hammering on adjacent and opposite surfaces for at least 14 days after installation, unless manufacturer's instructions allow a shorter period.

END OF SECTION 04 05 13

SECTION 04 43 00 – NATURAL STONE VENEER

PART 1 - GENERAL

1.1 SUMMARY

- A. Section includes Cut Stone Veneer
- B. Related Requirements:
 - 1. Section 03 35 19 - Accent concrete finishing
 - 2. Section 04 05 13 – Masonry Setting Materials and Accessories

1.2 SUBMITTALS

- A. Manufacturer's catalog data, detail sheets, and printed installation instructions.
- B. Verification Samples: For each product, color, and texture selected, provide FOUR full-size units representing actual color and texture of products to be installed.

1.3 SAMPLE PANELS

- A. Construct sample panel at location indicated or directed, and as follows:
 - 1. Location: "Back" of center wall
 - 2. Size: ½ of back face, approx 10 sf.
 - 3. Include all unit types and sizes to be used, and mortar joint treatment.
- B. Obtain Owner's Representatives acceptance of sample panel before beginning construction activities of this section.
- C. Do not remove sample panel until construction activities of this section have been accepted by landscape architect.

1.4 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Manufacturer with 10-years experience in manufacture of specified products.
- B. Installer Qualifications: An installer with 5+ years experience with work of similar scope and quality.

1.5 DELIVERY, STORAGE AND HANDLING

- A. Deliver products of this section on pallets, with individual faces protected; keep dry.

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NATURAL STONE VENEER

- B. Store units in protected area or under cover on level ground; keep dry. Do not double-stack pallets.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Manufacturers: Subject to compliance with requirements, provide products by the following:
 - 1. Fond du Lac Natural Stone, Tel: 877.923.2800; Fax: 402-729-5804; Web: www.fdlnaturalstone.com
 - a. Distributed by Northstar stone and Landscape, Bellingham WA; 360-383-9090

2.2 MATERIALS

- A. Cobblestone Thin Veneer:
 - 1. Size: 3" to 10" diameter; inches high, $\frac{3}{4}$ " to 1-1/2 inch thick.
 - 2. Matching color full size stone for custom trim pieces as needed
 - 3. Manufactured Corner Units to be used in all locations.
- B. Local cobble 'flats'
 - 1. Shape and color must match existing stone on project. Emphasize grey colors.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Inspect related conditions; do not start work in an area until adverse conditions in that area are corrected.

3.2 STONE MIXTURE RATIOS AND COLORS

- A. Cobble Flats may be used for up to 20% of the stone veneer surface; Color of Flats to emphasize Greys. Reds and Pink Cobble Flats are not to be used to supplement cobblestone thin veneer. No use of Cobble Flats are required.
- B. Cobblestone Thin Veneer is a multi-color mixture. Red and Pink stones are to be culled when possible or used in locations less visible to the public such as the back or outside face of walls

3.3 PREPARATION

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NATURAL STONE VENEER

- A. Test surfaces for straightness, levelness. Notify Owners Representative where corrections are needed.
- B. Examine newly poured concrete closely to ensure that its finished surface contains no release agents (form oil). If it does contain form oil, etch surface with muriatic acid, rinse thoroughly and/or score with wire brush. Other mechanical means of removing release agents (sandblasting) are acceptable.

3.4 INSTALLATION

- A. Install thin stone veneer in accordance with manufacturer's printed instructions.
- B. Size and portion units for best appearance, with joints arranged neat and symmetrical, free of imperfections detracting from overall appearance. Mix stone from several boxes and with flats to achieve a pleasing blend of color and texture.

3.5 FILLING AND FINISHING MORTAR JOINTS

- A. Use a grout bag to fill in joints. Care must be taken to avoid smearing grout on surface of brick. Accidental smears or mortar drippings should be removed only after mortar has become crumbly. Use a whisk broom or dry bristle brush.
- B. When the grouted joints have become firm ("thumbprint" dry), they should be pointed up with a metal jointing tool. Rake out excess mortar, compact and seal edges around bricks.

3.6 TOLERANCES

- A. Variation from Unit to Adjacent Unit: Joints to be approx. 1/2" wide with 3/4" maximum.
- C. Variation from Plane of Wall: 1/2 inch.

3.7 FIELD CONTROL

- A. Landscape Architect will observe appearance of installed units; installed masonry surfaces shall be free of imperfections which detract from overall appearance when viewed from a distance of 3 feet at 90 degrees normal to surface.

3.8 CLEANING

- A. Clean installed masonry surfaces in accordance with manufacturer's instructions; do not clean units with products not specified in manufacturer's instructions.

END OF SECTION 04 43 00

SECTION 05 70 00 - DECORATIVE METAL

PART 1 - GENERAL

1.01 SUMMARY

- A. Section includes the fabrication and installation of metal signs to be installed on top of a wall

1.02 REFERENCES

- A. ASTM International:
 - 1. AAMA 611: Voluntary Specification for Anodized Architectural Aluminum.
 - 2. 2. ASTM A 792/A 792M: Standard Specification for Steel Sheet, 55% AluminumZinc Alloy-Coated by the Hot-Dip Process.
 - 3. 3. ASTM B 209: Standard Specification for Aluminum and Aluminum-Alloy Sheet and Plate.
 - 4. 4. ASTM E 84: Standard Test Method for Surface Burning Characteristics of Building Materials.
 - 5. 5. CID A-A-1936A: Adhesive, Contact, Neoprene Rubber.
 - 6. 6. NSF/ANSI Standard 51: Food Equipment Materials.
 - 7. 7. SCAQMD Rule 1168: Adhesive and Sealant Applications.
 - 8. 8. UL 2818: GREENGUARD Certification Program for Chemical Emissions for Building Materials, Finishes and Furnishings.
- B. National Ornamental & Miscellaneous Metals Association:
 - 1. NOMMA Guideline 1 - Joint Finishes.

1.03 ACTION SUBMITTALS

- A. Shop Drawings: Indicate profiles, sizes, connection attachments, anchorage, size and type of fasteners, and accessories.
- B. Product Data; Powdercoating designed for exterior Architectural Metal applications with UV resistance.
- C. Samples: Color to be 'Dark Grey' semi-gloss to satin finish. Provide 4 sample options from manufactures standard offerings for owner to choose from.

1.04 QUALITY ASSURANCE

- A. Finish joints in accordance with NOMMA Guideline 1.
- B. **Verify field measurements prior to fabrication.**

- C. Manufacturer's Qualifications: Not less than 5 years experience in the actual production of specified products.
- D. Installer's Qualifications: Firm with 3 years experience in installation of systems similar in complexity to those required for this Project.

1.05 DELIVERY STORAGE AND HANDLING

- A. Deliver metal signs and posts with protective covering intact.
- B. Store and handle in strict compliance with manufacturer's written instructions and recommendations.
- C. Protect from damage due to weather, excessive temperature, and construction operations.

PART 2 - PRODUCTS

2.01 SIGN PANEL ON WALL

- A. Approx 2'-6" x 8' frame with holes drilled

2.02 SIGN PANEL ON WALL COMPONENTS

- A. Aluminum Plate – 3/8"
- B. Aluminum tube post
- C. Aluminum 'angle' – 1"x1"
- D. Welding Materials.
- E. Stainless fasteners
- F. Powdercoat – IFS FP500 or approved equal.

2.03 NAMEPLATE SIGN

- A. Approx 2' x 4' sign, including post and details shown on drawings; post spacing as shown on Drawings

2.04 NAMEPLATE COMPONENTS

- A. Aluminum Plate – 3/8"
- B. Aluminum tube post

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DECORATIVE METAL

- C. Welding Materials.
- D. Stainless fasteners
- E. Powdercoat – IFS FP500 or approved equal.

2.05 FABRICATION

- A. Fit and shop assemble components in largest practical sizes for delivery to site.
- B. All holes for fasteners drilled prior to fabrication.
- C. Fabricate components with joints tightly fitted and secured.
- D. Exposed Mechanical Fastenings: Flush countersunk screws; unobtrusively located; consistent with design of component, except where specifically noted otherwise.
- E. Supply components required for anchorage of fabrications. Fabricate anchors and related components of same material and finish as fabrication, except where specifically noted otherwise.
- F. Continuously seal joined pieces by continuous welds. Drill condensate drainage holes at bottom of hollow members at locations not encouraging water intrusion.
- G. Accurately form components. to each other and to building structure.
- H. Accommodate for expansion and contraction of members and building movement without damage to connections or members.

PART 3 - EXECUTION

3.01 EXAMINATION

- A. Verify field conditions are acceptable and are ready to receive work.

3.02 PREPARATION

- A. Supply items required to be attached to concrete curb, with setting templates, to appropriate sections.

3.03 INSTALLATION

- A. Install components plumb and level, accurately fitted, free from distortion or defects.

3.04 ERECTION TOLERANCES

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DECORATIVE METAL

- A. Maximum Variation From Plumb: 1/8" cumulative.
- B. Maximum Offset From Alignment: 1/4" inch.
- C. Maximum Out-of-Position: 1/4" inch.

END OF SECTION

SECTION 12 93 00 - SITE FURNISHINGS

PART 1 - GENERAL

1.1 SUMMARY

- A. Section includes Benches, bicycle racks and trash receptacles.

1.2 ACTION SUBMITTALS

- A. Product Data: For each type of product provided by manufacturer.
- B. Shop Drawing as called out for on custom items
- C. Samples:
 - 1. Color chip card or equal for stains and paints on custom items.
 - 2. 12" length or all dimensional wood to be used for custom site furnishings to review proposed final finish

1.3 Measurement

- A. Measurement for each site furnishing will be measured per "each".

1.4 Payment

- A. The unit Contract price Each for site furnishings as detailed in the plans and according to these Special Provisions shall be full compensation for all labor, tools, equipment, and materials necessary to complete this item of Work.

PART 2 - PRODUCTS

2.1 BICYCLE RACK and HITCHING POST

- A. Custom Bike Rack: Subject to compliance with requirements, provide the following:
 - 1. Includes stain, hardware, concrete footing and all labor, tools, equipment, and materials necessary to complete this item of Work.
- B. Custom Hitching Post: Subject to compliance with requirements, provide the following:
 - 1. Includes stain, hardware, concrete footing and all labor, tools, equipment, and materials necessary to complete this item of Work.

2.2 BENCHES and TABLES

- A. Plaza Bench A: Subject to compliance with requirements, provide the following:
 - 1. Bench - backless; manufactured by DuMor, 800-726-0031
 - 2. Model: 164; 6-foot
 - 3. Color to be 'black'
 - 4. No Substitutions
- B. Plaza Bench B: Subject to compliance with requirements, provide the following:
 - 1. Bench with Back; manufactured by DuMor, 800-726-0031
 - 2. Model: 160; 8-foot
 - 3. Color to be 'black'
 - 4. No Substitutions
- C. Custom Park Bench: Subject to compliance with requirements, provide the following:
 - 1. Bench made from wood slab on metal plate legs – backless
 - 2. Includes stain, hardware, concrete footing and all labor, tools, equipment, and materials necessary to complete this item of Work.
- D. Custom Picnic Table: Subject to compliance with requirements, provide the following:
 - 1. Table to be decay resistant yellow Alaska cedar and built to be attached to a concrete slab
 - 2. Includes stain, hardware, finishing and all labor, tools, equipment, and materials necessary to complete this item of Work.

2.3 FLAGPOLES

- A. 35-foot pole:
 - 1. Manufactured by Concord American – 800-527-3900
 - 2. Model: Monarch Series - icc35c71
 - 3. Color: Anodized Black
 - 4. Includes one flag on one pole per drawing, hardware, concrete footing and all labor, tools, equipment, and materials necessary to complete this item of Work
- B. 25-foot pole:
 - 1. Manufactured by Concord American – 800-527-3900
 - 2. Model: Monarch Series – icc25c51
 - 3. Color: Anodized Black
 - 4. Includes one flag on each pole per drawing, hardware, concrete footing and all labor, tools, equipment, and materials necessary to complete this item of Work

2.4 SERVICE MEDALIANS

- A. Bronze
 - 1. Manufactured by BronzeMemorials.Net – 800-527-3900
 - 2. Model: Monarch Series - icc35c71
 - 3. Color: Bronze

4. One medallion for each of the 6 main service branches; confirm with owner prior to ordering
5. Includes all hardware, fasteners, and all labor, tools, equipment, and materials necessary to complete this item of Work

2.5 BBQ Grills

A. Products: ADA accessible BBQ1

1. Manufactured by RJ Thomas Co, Inc.
2. Model ASW-24
3. Installed surface mount on pad
4. Includes hardware, concrete footing and all labor, tools, equipment, and materials necessary to complete this item of Work.

B. Products: BBQ2

1. Manufactured by RJ Thomas Co, Inc.
2. Model A-20 with Utility Shelf
3. Installed surface mount on pad
4. Includes hardware, concrete footing and all labor, tools, equipment, and materials necessary to complete this item of Work.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Comply with manufacturer's written installation instructions unless more stringent requirements are indicated. Complete field assembly of site furnishings where required.
- B. Unless otherwise indicated, install site furnishings after landscaping and paving have been completed.
- C. Install site furnishings level, plumb, true, at locations indicated on Drawings.
- D. **All fasteners required for installation are to be stainless steel. No exceptions unless specifically approved.**

END OF SECTION 129300

SECTION 32 14 00 - UNIT PAVING

PART 1 - GENERAL

1.1 SUMMARY

- A. Section Includes:
 - 1. Solid concrete pavers with openings between pavers filled with polymetric sand.
- B. Related Requirements

1.2 ACTION SUBMITTALS

- A. Product Data: For materials other than water, sand and aggregates.
- B. Samples for unit pavers. Two pavers each size.

1.3 PROJECT CONDITIONS

- A. Cold-Weather Protection: Do not use frozen materials or build on frozen subgrade or setting beds.
- B. Weather Limitations for Mortar and Grout:
 - 1. Cold-Weather Requirements: Comply with cold-weather construction requirements contained in ACI 530.1/ASCE 6/TMS 602.
 - 2. Hot-Weather Requirements: Comply with hot-weather construction requirements contained in ACI 530.1/ASCE 6/TMS 602.

1.4 QUALITY ASSURANCE

- A. Paver Installation Subcontractor Qualifications:
 - 1. Utilize an installer having successfully completed concrete paver installation similar in design, material and extent indicated on this project.
 - 2. Utilize an installer with job foremen holding a current certificate from the Interlocking Concrete Pavement Institute Concrete Paver Installer Certification program.
- B. Mock Up
 - 1. Install a 5x5 area of the pavers. Contractor is only required to apply sealant to 50% of the mock-up. In-situ mock up acceptable.

1.5 PAYMENT

- A. The unit Contract price square foot for unit pavers as detailed in the plans and according to these Special Provisions shall be full compensation for all labor, tools, equipment, and materials necessary to complete this item of Work.

PART 2 - PRODUCTS

2.1 CONCRETE PAVERS

A. Interlocking Pavers

- 1. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
 - a. Basalite Concrete Products
- 2. Paver Style: Artisan Slate Premier; 6" x 12".
- 3. Color: Torino Blend;

2.2 POLYMETRIC SAND

- A. General: Polymetric sweep sand used to prevent washout and prevent weed growth
- B. Color to be grey

2.3 SEALANTS

- A. Interlocking Pavers
 - 1. Basalite Cure and Seal; semi gloss non yellowing acrylic sealer

2.4 AGGREGATE

- A. Per manufactures specifications and as shown on drawings including compacted aggregate and bedding sand.

PART 3 - EXECUTION

3.1 INSTALLATION, GENERAL

- A. Mix pavers from several pallets or cubes, as they are placed, to produce uniform blend of colors and textures.
- B. Cut unit pavers with motor-driven masonry saw equipment to provide pattern indicated and to fit adjoining work neatly. Use full units without cutting where possible.
 - 1. For concrete pavers, a block splitter may be used.
- C. Joint Pattern: Per Drawings
- D. Tolerances: Do not exceed 1/16-inch unit-to-unit offset from flush (lippage) nor 1/8 inch in 24 inches and 1/4 inch in 10 feet from level, or indicated slope, for finished surface of paving.

3.2 CONCRETE PAVER SETTING-BED APPLICATIONS

- A. Per manufactures specifications and as shown in drawings and specifications.
- B. Sealing:
 - 1. Prep area per manufactures specification
 - 2. Saturate the surface and apply evenly for a uniform appearance; Second coat may be required to achieve uniform color.
 - 3. Contractor is to be careful not to get any paver sealant on adjacent stamped concrete. Any overspray on these areas must be completely removed.
 - 4. Follow all other manufacturer requirements

END OF SECTION 321400

SECTION 32 80 00 - IRRIGATION

PART 1 - GENERAL

1.01 Summary

- A. This section includes a complete irrigation system including all trenching, backfilling and compacting; sleeving, installation of pipe, valves, heads, fittings and all other appurtenances; installation of booster pump, connections and wiring; fine tuning of systems; necessary accessories as shown on the drawing and specified herein.

1.02 Related Sections

- A. Section 32 93 00 – Landscape Planting

1.03 Requirements

- A. Work and materials shall be in accordance with the latest rules, regulations and other applicable state or local laws. Nothing in the contract documents is to be construed to permit work not conforming to these codes.
- B. All work called for on the drawings by notes shall be furnished and installed whether or not specifically mentioned in the specifications. Do not install the sprinkler system as indicated on the drawings when it is obvious in the field that obstructions or grade conditions exist which cause discrepancies with the construction plans, details, legend or specific notes. All such discrepancies shall be brought to the attention of the OWNER. In the event this is not done, the CONTRACTOR shall assume full responsibility for the necessary revisions.
- B. Due to the scale of drawings, it is not possible to indicate all offsets, fittings, sleeves, etc. Which may be required. The CONTRACTOR shall carefully investigate the structural and finished conditions affecting all of his work and plan accordingly. Drawings are generally diagrammatic and indicative of the work to be installed. The work shall be installed in such a manner as to avoid conflicts between irrigation system, planting and architectural/site features.

1.04 As-Built Drawings

- A. The CONTRACTOR shall maintain a current record of all pipe and equipment placement and shall record any variations approved by the OWNER. Upon completion of the system and prior to release of final payment, the CONTRACTOR shall provide the OWNER with a neat and legible "as-built" plan of the completed system. Drawing to be full sized. Any pipe not installed in accordance with the plans as originally contracted shall be sufficiently dimensioned to a permanent structure for location after burial. As-built records shall be updated daily.

1.05 Submittals

- A. Product data: submit product data before beginning work. Include manufacturer's product literature for all products to be installed in this system in two (2) three ring binders indexed and tabbed or in a digital format organized in the same manner. Include material showing manufacturer's name, catalog numbers, catalog cuts, technical data, and installation, operation and maintenance instructions for each product.
- B. Point of connection water pressure test: test water pressure at point of connection. Verify pressure is in range indicated on construction drawings. Submit written results of test to OWNER.

1.06 Substitutions

- A. Substitutions to the specified equipment will be permitted with the express written approval of the OWNER. Substitutions will be approved only when the substituted item is equivalent or better in quality and performance than the item originally specified. The final determination for "equivalents" rests with the OWNER. Their decision shall be final and binding.

1.07 Quality Assurance

- A. Perform works in strict accordance with the applicable plumbing, electrical, and health codes.
- B. Obtain and pay for all permits and approvals required by the local jurisdictional authorities for the full operation of the system.
- C. The work is subject to tests and inspections by the OWNER prior to the required test or inspection.

1.08 Delivery, Storage, Handling and Protection

- A. Protect work and materials from damage during construction and storage. PVC pipe and fittings shall be protected from ambient temperatures, weather and direct sunlight in accordance with manufacturer's written recommendations.
- B. Assume all responsibility for damage to existing construction and restore to its original condition should damage occur as a result of this work.
- C. Deliver products in sufficient quantities to allow a continuity of the work.

1.9 Warranty

- A. Warranty system against defects of installation and material for a period of 1 year after acceptance of the irrigation system. Guarantee shall also cover repair or damage to any part of the premises resulting from leaks or other defects in material, equipment and workmanship to the satisfaction of the OWNER. Repairs, if required, shall be done promptly upon notification by the OWNER, and, at no cost to the OWNER.

- C. As part of the warranty, the CONTRACTOR shall be responsible for deactivating and draining the system prior to the onset of the freezing season and for reactivating the system at the onset of the spring growing season; each event must be accomplished once during the warranty period. In the event the system is completed in a season when it will not be in use, the CONTRACTOR shall winterize the system upon completion of testing (and approval by the OWNER) and reactivate the system in the spring. The CONTRACTOR shall submit a letter to the OWNER certifying that the system was winterized and drained and indicate the date such action was accomplished. The CONTRACTOR shall be responsible for any damage resulting from failure to comply.

1.10 System Familiarization

- A. Before final acceptance of the system, the CONTRACTOR shall provide the necessary keys and/or other tools required to operate, drain and activate the system and shall spend sufficient time with the OWNER to insure that the system operation, maintenance and winterization can continue after the departure of the CONTRACTOR. Provide two (2) complete sets of tools and keys to the OWNER (i.e.: water keys, quick coupler keys with hose swivel attachments, valve cover keys, controller keys and sprinkler adjustment and disassembling tools, etc.)
- B. Contractor is to provide 1% extra stock of each sprinkler type on project to OWNER.

1.11 Maintenance Manuals

- A. The CONTRACTOR is to provide two (2) operation and maintenance manuals. The manuals shall be indexed and tabbed, bound in hardback 3 ring binders. Include the following items/information:
 - 1. List of authorized distributors and service representatives (in the area) for each item of irrigation equipment: include names, addresses and phone numbers.
 - 2. Guarantee/warranty certificates for all equipment used and CONTRACTOR's written warranty for entire system one (1) year guarantee.
 - 3. Manufacturer's maintenance sheets, replacement parts list and equipment brochures for all equipment used. All composite data sheets shall have the specified products used in the field clearly highlighted.
 - 4. Winterization and spring start up procedures.
 - 5. A pocket for one (1) blueline copy of the approved record drawings. This print shall be added at the time of the final inspection.

1.12 Measurement

- A. Measurement for Irrigation will be measured per Lump Sum.

1.13 Payment

- A. The unit Contract price Lump Sum for Irrigation as detailed in the plans and according to these Special Provisions shall be full compensation for all labor, tools, equipment, and materials necessary to complete this item of Work.

PART 2 PRODUCTS

2.01 Summary

- A. All materials used throughout the system shall be new, unused, and in perfect condition. Refer to the irrigation materials legend, notes, detail drawings and these specifications for specific equipment to be used. Equipment or materials installed or furnished without prior approval of the OWNER shall be removed from the site at CONTRACTOR'S own expense.

2.02 Brass Pipe and Accessories

- A. Pipe: astm b43, schedule 40; domestic manufacturer
- B. Fittings: medium brass, screwed, 125-pound class.

2.03 Plastic Pipe and Accessories

- A. Pipe
 - 1. Pipe walls shall be uniform, smooth, glossy, and free of interior or exterior extrusion marks; pre-belled or straight to receive solvent-weld couplings; 20 foot standard lengths.
 - 2. Pipe shall be marked with manufacturer's name, class of pipe, nsf seal, and date/shift of manufacturing run.
 - 3. Pvc pipe: astm d1785, d2241
- B. Fittings: pvc - astm d2464, d2466.
- C. Cement and solvent: types recommended by the manufacturer of the pipe.
- D. Irrigation system plastic pipe
 - 1. Mainline: pvc schedule 40 pipe with pvc schedule 40 solvent weld fittings.
 - 2. Laterals: pvc sched 40 pipe with pvc schedule 40 solvent weld fittings.
 - 3. Sleeving: pvc schedule 80 pipe for sleeves. Minimum sleeve size is double the diameter of the interior pipe(s).

2.04 Sprinkler Heads

- A. Rotary Heads
 - 1. All pop up gear driven rotary heads shall be of the Hunter nozzles as shown on the drawings. All rotary type sprinklers located in lawn areas shall be with 6 " pop up. All sprinklers will have ratcheting riser feature for easy adjustment.
- B. Rotator Heads
 - 1. All fixed spray pop up sprinkler heads shall be of the Hunter nozzles. All fixed spray sprinklers located in lawn areas shall with 6 " pop up riser. Planting area sprinklers shall be 12 " pop up riser. All sprinklers will have ratcheting riser feature for easy adjustment.

2.05 Backflow Preventer

- A. As shown on plans or approved equal. Backflow preventer is to be approved by Skagit PUD. Contractor to confirm approval before submittal of proposed substitution.

2.07 Automatic Valves

- A. Valves shall be Hunter ICV remote control valves. Size is indicated on plans. Valve shall be solenoid-operated, diaphragm, globe type with 150 psi cwp rating, having NPT threads and suitable for underground burial. Design shall be normally closed, requiring solenoid to be energized to open valve. The valve shall have a manufacturer's limited warranty of not less than five (5) years.

2.08 Valve Boxes

- A. Carson industries fiberlyte with locking (drop and lock) lid. Standard rectangular box for all electrical control valves,. 10" round box for all mainline gate valves and subsurface system equipment, and 6" round pit box for microline manifold.

2.09 Automatic Controller

- A. Size and type as indicated on drawing. Solid state controller, wall mount, lockable, water resistant, steel cabinet. Input 120 vac, 60 hz. Output: 24 vac, 2 a, ul listed and approved.

2.10 Quick Coupling Valve

- A. Size and type as indicated on drawing. ; two piece, locking top quick coupling valve. Contractor shall provide two keys with hose swivel to OWNER.

2.11 Mainline Gate Valves

- A. Brass, 600# wog, threaded end ball valve with pvc coated round handle. Mainline ball valves shall be of the same size as the pvc mainline. Contractor shall provide operating key. Key shall be 1/2" stock; "t" handle and forked to fit the round handle on ball valves.

2.12 Manual Drain Valve

- A. Brass 3/4" angle valve; install manual drains at low points along mainline.

2.13 Wire

- A. All 115 and 230 volt wiring will conform to all local electrical codes.
- B. All 24 volt control wire to be insulated, single strand copper designed for 24-50 volts and ul approved as uf (underground feeder). UI and uf designations clearly marked on the insulation jacket of the wire. Copper conductor must meet or exceed astm b-3

specifications. Minimum gauge #14 uf direct burial (ul approved); red or black jackets for hot side, white for common ground; auxiliary wires, shall have orange color jacket.

- B. A spare set of wires is to be supplied to each valve.

2.14 Accessories

- A. Electrical splices/tape: scotch-lok #3570 or 3m-dby, direct bury splice kit.
- B. Pressure gauge--liquid filled, registering 0 to 160 psi.

PART 3 EXECUTION

3.01 Examination

- A. Prior to starting work, carefully inspect the preparatory work of other trades, and verify that such work is acceptable for the installation of the work of this section. Report all unacceptable conditions to the OWNER Do not begin work until unacceptable conditions have been resolved. Beginning of work constitutes CONTRACTOR acceptance of conditions.

A. Trenches

3.02 Trenching and Backfill

- A. Trenches shall be free from rock, debris or sharp articles, with a minimum of 12 inches of cover over lateral lines, 18 inches of cover over mainline and sleeving. Trench width must allow a minimum of three (3) inches between parallel pipelines.
- B. Accomplish backfilling in a manner to insure no future settlement of the trench. Backfill in maximum 6 inch lifts. A fine granular material backfill will be initially placed on all lines. No foreign matter larger than 1/2 inch in size will be permitted in the initial backfill.
- C. Backfill in sleeving trenches (i.e., under all hardscapes) shall be mechanically compacted in two (2) lifts to a dry density equal to 95% of adjacent undisturbed soil. Backfill will conform to adjacent grades without dips, sunken areas, humps, or other surface irregularities.
- D. If settlement occurs and subsequent adjustments in pipe, valves, sprinkler heads, lawn or planting, or other construction are necessary, the CONTRACTOR shall make all required adjustments without cost to the OWNER.

3.03 Pipe and Fittings

- A. Cut pipe ends 90 degrees to the pipe length and remove cutting burrs; use approved deburring tool. Wipe pvc pipe ends clean. Primer shall be applied to both fitting and

pipe end. Apply a light coat of cement on the inside of the fitting and a heavier coat on the outside of the pipe.

- B. Insert pvc pipe into the fitting and give a quarter turn to seat the cement. Wipe excess cement from the outside of the pvc pipe. Allow welded joints to cure for a minimum of 15 minutes prior to moving. Do not fill with water for 24 hours. No backfilling will be permitted other than at the center of the pipe lengths until the pressure test is complete.
- C. Routing of pvc lines is diagrammatic. Where possible install lines and valves adjacent to hardscapes and in planting areas.

3.04 Sprinkler Heads

- A. Install as per details. Fixed spray heads installed on pe (swing) pipe.
- B. Locate sprinklers in planting beds a max. Of 6" from bed edge. Lawn sprinklers are to be located a max. Of 2" from pavement edge.
- C. Install head flush with finish grade and "fine tune" system to minimize over spray on adjacent pavement.

3.05 Automatic Valves

- A. Install as per details. Use valve box extensions to insure that the box extends completely below the bottom of the valve. Valve pit shall be left with a clean layer of gravel in the bottom with 4" clearance minimum between gravel and bottom of valve.

3.06 Backflow Preventer

- A. Install as per details. Minor adjustments of location may be required for technical purposes at no added cost to the contract. Install per local code. After installation inspection by skagit pud may be required. Verify with district office.

3.07 Control Wires

- A. Tape wire bundle at 10 foot intervals. Do not tape wire harness to water pipe. Provide an 18" harness loop at all sleeve ends and direction changes.
- B. All splices must be contained in plastic valve box where a valve is installed. Allow expansion coils long enough so valve bonnet may be removed and placed outside the box for maintenance purposes. Provide separate hot lead for each automatic valve. One common wire for each controller.
- C. Provide one spare wire to run from controller to end valve on each leg of the mainline. Identify each spare at the controller. Loop a 24" coil of spare wire inside each valve box.
- D. Install in sleeves under pavement areas.

- E. Provide a 10-foot coil of spare wire at the controller to assist the owner in relocating controller to final location during future phase of work
- 3.08 Controller
- A. Installation is to be on a post and/or panel that is securely fastened to the ground. Post to be a minimum 60" above grade.
- 3.10 Pipe Sleeves
- A. Provide pipe sleeves double the diameter of the interior irrigation pipe(s). Cover sleeves with a minimum of 18" of earth.
- 3.11 Manual Drain Valves
- A. Install on mainline at low points to facilitate future repairs (minimum of 2 valves per mainline loop). Install as per detail. Install 2" class 160 pvc sleeve over cross handle and extending to finish grade. Mark valve with rubber valve marker, which fits snugly into sleeve.
- 3.12 Quick Coupling Valve
- A. Install as per detail drawing.
- 3.13 System Flushing
- A. Flush the entire system prior to the installation of the sprinkler heads.
 - B. After capping all risers, remove the cap(s) nearest the automatic valve, flush and recap.
 - C. Repeat this process until the last head on the circuit is flushed.
- 3.14 Field Testing
- A. Request OWNERS attendance at each test. Give a minimum of one-week prior notice.
 - B. Mainline pressure testing
 1. Leave all system joints, connections, etc. Exposed until after completion and acceptance of the pressure test.
 2. Mainline shall be subjected to a static pressure test of 150 psi. To be valid all tests must be performed under the observation of OWNER.
 3. Attach test compressor with pressure gauge to head of mainline.
 4. Attach gate valve to opposite end of mainline.
 5. Open gate valve at end of mainline until all air is removed from mainline.
 6. Close gate valve and install pressure gauge, then reopen valve.
 7. Apply 150 psi to mainline, test is for one hour. Maximum allowable drop is 5 psi in one hour.

- C. Lateral line pressure testing: all pvc lateral lines with pe (swing) pipe and swing joints installed and capped shall be tested under static line pressure to the satisfaction of the OWNER.

3.15 Performance Test

- A. Request OWNER attendance at the system coverage test. Give a minimum of one-week prior notice.
- B. System performance demonstration:
 - 1. Upon completion of the system installation and after the flushing and pressure tests are completed, perform a system coverage test for each zone in the presence of the OWNER.
 - 2. Repair any clogged or damaged nozzles. Correct all deficiencies, without additional cost, until the OWNER approves the system.
 - 3. System shall be tested for both manual and fully automatic operation.
- C. Maintenance training: upon acceptance of the system by the OWNER, furnish to the OWNER personnel keys and other tools necessary to operate, and maintain the system. Furnish sufficient training to the owner's personnel in the operation maintenance, and winterization of the system. The CONTRACTOR shall be liable for all damages or losses resulting from failure to comply with the provisions of this paragraph.

3.17 Adjusting

- A. Substitute or modify up to 5% of total spray nozzles as directed by the OWNER to accommodate locations and density of plants. Adjustments to the system will be made without additional cost to the OWNER.

3.18 Cleaning and Repairs

- A. Repair or replace any damaged materials, surfaces, and finishes caused by work of this section to the satisfaction of the OWNER and at no additional cost.
- B. Clean up shall be done as each portion of work progresses. Refuse and excess dirt shall be removed from the site and legally disposed of off-site. All walks and paving shall be swept down.

3.19 System Protection

- A. Deactivate and drain the system prior to the onset of the freezing season and reactivate at the onset of the spring season. Accomplish each at least once during the warranty period. If construction is completed when the system is not in use, winterize after testing. Certify by letter the dates of winterization / activation. Repair damage from failure to comply.
- B. When using compressed air to winterize the system, do so in short cycles at no more than 40 psi air pressure. Do not allow pipe close to the compressor to get hot to the touch.

3.20 Final Approval

- A. Contingent upon receiving signed and approved permits as may be applicable, reproducible "as - built" drawings and two (2) three-ring binders of all catalog cuts/manufacture's instruction/ maintenance and operation information as well as two (2) complete sets of all tools and keys.

End of section

SECTION 32 93 00 - LANDSCAPE PLANTINGS and MATERIALS

PART 1 - GENERAL

1.01 RELATED DOCUMENTS

- A. Drawings and general provisions of Contract, including General Conditions, Supplementary Conditions and Divisions 0 and 1 Specification Sections, apply to work of this Section.

1.02 SECTION INCLUDES

- A. General: Provide all labor, equipment and materials necessary for completion of landscaping shown on drawings or specified herein, including but not limited to installation of topsoil, plant material, clean-up and maintenance through final acceptance.

1.03 RELATED WORK

- A. Section 32 80 00, Irrigation

1.04 QUALITY CONTROL

- A. Materials: Furnish plant materials in accordance with Washington State Grading Code for No.1 Grade; well established and vigorous normal habit of growth, must be free from disease, approved for quality, size and variety upon delivery at site. Verify prior to bid date all sources of supply and insure availability of listed sizes, species, variety and quality.
- B. Inspection: OWNER reserves the right to reject, through his agent, any or all plant material at any time until final inspection and acceptance. Remove rejected plants immediately from site.
- C. Measurements: Conform with size requirements indicated on drawings or specified hereinafter and with requirements of ANSI Z60.1-2004 (American Standard for Nursery Stock).
- D. Protections and Precautions: The CONTRACTOR shall take necessary precaution to protect walks, curbs, pavement and building from damage. No planting soil shall be mixed directly on paved surfaces. Locate all underground utilities prior to commencement of work. Any utilities, curbs, pavements, walk or structure damaged as a result of the CONTRACTOR's operations shall be repaired at the CONTRACTOR's expense. Keep construction area open and free flowing at all times. Store materials on-site as directed by the OWNER's Representative. Remove and legally dispose of excess materials. Erect necessary signs and barriers against pedestrian and vehicular traffic.
- E. Delivery: Protect plant material from wind, drought, unusual weather or vandalism. Protect seed from dehydration, contamination, and heating during

delivery, storage and handling. Deliver fertilizer and lime to the site in original unopened containers bearing manufacturer's chemical analysis, name, trade name, trademark, and indication of conformance to state and federal laws. Instead of containers, fertilizer and lime may be furnished in bulk with certificate indicating the above information. Store seed, lime and fertilizer in cool dry location away from contaminants.

F. Submittals:

1. Plant Material Documentation:
 - a. Within 30 days after award of General Contract, submit documentation that all specified plant materials have been ordered.
 - b. Any plant substitution must be approved by Owner or owners representative. Approval of substitution will be based on a specimen which is similar in form and habit, disease resistance, and of an equal or larger caliper size
2. Grass Seed Mix Data Sheet
3. Manufacturer's Certificates of Conformance:
 - a. Fertilizer.
 - b. Topsoil.

G. Storage:

1. Protect plants from sun and drying wind.
2. Maintain and protect plant materials not to be planted within 4 hours in a safe, healthy and vigorous condition.
3. Do not store herbicides with any other landscape materials.

H. Guarantee: All plant material shall be guaranteed by the CONTRACTOR for a period of one year from the date of final acceptance, to be in healthy condition.

1. Inspections: Make periodic inspections, at no extra cost to OWNER, during guarantee period. Determine what changes if any should be made in OWNER's maintenance program.
2. Replacement during warranty period: Replace, at no cost to OWNER, and as soon as weather conditions permit, dead plants and plants not in vigorous, thriving condition. Replacements to be of same species and to be subject to all indicated requirements. Make replacements prior to expiration of guarantee period.

I. Codes and Regulations: Comply with all applicable city, county, state, and federal codes and regulations.

1.05 PROVISIONAL AND FINAL REVIEW

- A. Upon completion of planting, and all other work required under the contract, the contractor shall request a provision inspection (punch list). No partial approvals will be given.

- B. The contractor shall request a final inspection upon satisfactory completion of all punch list items and any other work required under this contract. Final inspection and acceptance of the work shall establish the beginning of the guarantee period.

1.06 Measurement

- A. Measurement for Landscape Plantings and Materials will be measured as shown on the bid form.

1.07 Payment

- A. The unit Contract price for Landscape Planting and Materials as detailed in the plans and according to these Special Provisions shall be full compensation for all labor, tools, equipment, and materials necessary to complete this item of Work.

PART 2 - MATERIALS

2.01 PLANT MATERIAL

- A. General: Plants to be nursery grown with size at least equal to size specified, prior to pruning. Do not prune prior to site delivery. Measurements, caliper, branching, grading, quality, balling and burlapping per ANSI Z60.1
- B. Plant Names:
 - 1. Plant varieties shall be as specified in the plant list and be true to botanical name as listed in the latest edition of "Standardized Plant Names" as adopted by American Joint Committee of Horticultural Nomenclature.
- C. Plant Stock:
 - 1. Be fresh, well foliated, in prime condition when in leaf, and exhibiting normal habit of growth.
 - 2. Have all the leaders and buds intact, free of disease, injury, insects, insect eggs, larvae, and indications of strawberry root weevil.
 - 3. Be free of seeds, weed roots, and other such contaminants.
- D. Plants are to be nursery grown unless otherwise specified herein.
- E. Container Stock: Provide container stock plants which have grown in container in which delivered for a minimum of 6 months, but not over 2 years. Do not handle container stock by tops, stems or trunks. Root-bound plants and containers with weeds are not acceptable.
- F. Balled and Burlapped Stock (B&B): Dug with firm, natural balls of soil around roots; ball diameter and depth sufficient to encompass fibrous and feeding roots. Wrap with burlap and bind with twine, cord or wire mesh in accordance with ANSI Z60.1. Handle by ball only. Take care to protect ball and plant. Cracked, broken loose or dry-to-the-center balls will not be acceptable.

- G. Bare Root Stock (BR): Remove earth without injury to fibrous root system. Protect from drying by covering with damp sawdust or burlap until planted. Dried or shriveled stock not acceptable.
- H. Pruning: Do not prune before delivery. Trees with bark sunscalds, broken leaders, disfiguring knots or fresh cuts off limbs over 3/4 inch not completely callused will be rejected.

2.02 GRASS SEED MIX

- A. Seed mix to be low grow and locally proven with high content of fescue.

2.03 TOPSOIL

- A. Topsoil shall have a pH of between 5.5 and 7.0 and be free of any admixture of subsoil, 3/4-inch-or-larger-diameter rocks, roots, plants, sticks, or other extraneous material. Do not use topsoil while in a frozen or muddy condition. Thoroughly premix topsoil off-site.
- B. Type A - Plant Beds and Planters: A two-way mix consisting of 50 percent sand and 50 percent compost.

2.04 FERTILIZER

- A. Trees, Shrubs, and Groundcover: Agriform planting tablets 20-10-5, 21 gram.

2.05 MULCH

- A. Use DARK FINE bark mulch

2.06 STAKING AND GUYING MATERIALS

- A. Staking material for trees as shown on the drawings.

PART 3 - EXECUTION

3.01 VERIFICATION

- A. Verify installation conditions as satisfactory to receive work of this section and have been approved by Landscape Architect. Do not begin until unsatisfactory conditions are corrected. Beginning work constitutes your acceptance of conditions as satisfactory.
- B. Field Measurements: Verify actual layout in relation to Drawings. Make adjustments as required by Landscape Architect, at no additional cost to the OWNER.

3.02 SITE PREPERATION

- A. Contractor is responsible for preparing areas for the installation of all types of landscape shown on the drawings.

3.03 TOPSOIL

- A. Depth
 1. Planter Beds – 9 inches
 2. Lawn– 2 inches
 3. Tree pits – 12 inches, see drawing detail
- B. General: Prepare planting area to a weed free and bare condition. De-compact subgrade in all plant bed areas by scarifying to a depth of 6 inches and removing rocks and debris over 1 inch in diameter. Sub grade soils should be free-draining and without impervious soils or other materials harmful to plant growth. Place depth of topsoil indicated on drawings over rough sub-grade in all shrub areas or planting beds. All depths are after settling.
 1. Apply any topsoil amendments uniformly over spread topsoil at rates specified.
 2. Thoroughly incorporate amendments into topsoil to a depth of 6 inches.
- C. Finish Grading: Fine grade plant beds to match adjacent paving. Fine finish topsoil by raking smooth and even and removing extraneous matter.
 1. Establish finish grades in accordance with elevations shown on Drawings.
 2. Rake, float, drag, and perform all necessary operations to remove surface irregularities and to provide a firm, smooth surface with positive drainage. Remove all rocks, sticks and other debris 1 inch and larger.
 3. Finish grades, after installation of topsoil or mulch, shall be Flush with adjacent surfaces unless otherwise specified or detailed.
- D. All holes, depressions, and rivulets shall be filled in and brought to a smooth grade. All branches, stones, or debris on the surface shall be picked up and removed from the site

3.04 PLANT MATERIAL

- A. Location: Prior to planting, shrub locations shall be outlined on the ground.
- B. Placement: Place at normal planting season, unless otherwise approved. Orient as directed for best appearance. Place trees first, and follow with shrubs. Set in center of pits, on approved topsoil backfill mix. Set plantings to bear same relationship with finish grade after settlement as they bore to natural grade. Hold firmly in position while backfill mixture is being placed to within 6 inches of finished grade. Place backfill mixture carefully, avoiding root damage and filling all voids. Compact fill by jetting to avoid air pockets. Allow to soak away and continue adding more topsoil as required. Stake as specified.
 1. Container Stock: Cut two sides with approved type cutter and remove container, taking care to avoid any root damage.

2. Balled Stock: Cut string and remove fasteners. Remove all burlap and wire baskets.
- C. Shrubs:
1. Plant pit excavation: Make holes for planting with vertical sides. Make pit 18. inches deep minimum or 6 inches deeper than the depth of container, whichever is deeper. Make pit 12 inches minimum larger than container diameter as shown.
- D. Trees:
1. Excavate pits 12 inches deeper and twice the diameter of root ball. Dispose of excavated soil on project site.
 2. Expand planting pit to a diameter as shown on the drawings
 3. Thoroughly scarify bottom of pits by shovel cutting. Shovel cut sides to help root penetration.
 4. Backfill bottom of tree pit (minimum 6 inches) with native soil to such an elevation that when the tree is installed, it will be at a proper finish grade, with the nursery grown base of plant 2 inches higher than planted in nursery. Compact backfill by hand methods and water to eliminate voids.

3.05 MULCH

- A. General: Apply mulch evenly to all shrub and plant beds to a depth indicated on drawings.

3.06 CLEAN UP

- A. Remove from site all cans, surplus subsoil and debris resulting from planting and grading operations. Neatly dress and finish planted areas.

3.07 PLANT ESTABLISHMENT AND FINAL ACCEPTANCE

- A. Preliminary Inspection and Acceptance: When the work specified herein has been completed, an inspection will be made within 7 days of the contractor's written request. The OWNER's Representative will generate a "punch list" of items that will require revisions or further work to comply with the contract documents. Preliminary acceptance of the landscaping will be given when items on the punch list have been completed to the satisfaction of the OWNER's Representative.
- B. Establishment Period and Maintenance: The establishment period will commence on the date of Preliminary Acceptance, and will extend until Final Acceptance of the entire project. Maintenance during this period to include:
1. Watering: Make necessary adjustments to controller schedule to accommodate seasonal changes. Winterize irrigation system if required.
 2. Fertilization: Apply fertilizer at manufacturer's recommended rate to turf areas at 50-60 day intervals. Should the establishment period extend to 12 months beyond the date of Preliminary Acceptance, fertilize all trees, shrubs and groundcover at the rates specified.

3. Weeding: Remove all weeds before they reach 6 inches or develop seeds from all shrub and groundcover beds.
 4. Plant Replacement: Remove and replace all dead and dying material.
- C. Final Inspection and Acceptance: Final inspection of the work in this section will be made at the time of the Final Inspection of the entire project. A final "punch list" may be issued. Final Acceptance of the landscaping will be contingent upon Final Acceptance of the entire project.

END OF SECTION

1 **Appendices**
2 **(January 2, 2012)**

3
4 The following appendices are attached and made a part of this contract:

5
6 APPENDIX A: Standard Plans

7
8 APPENDIX B: Wage Rates
9 Washington State Prevailing Wage Rates

10
11 APPENDIX C: Construction Contract and Contract Bond – Informational Only

12
13 APPENDIX D: Proposal Forms – Informational Only

14
15 APPENDIX E: Permits

16
17 APPENDIX F: Construction Stormwater Pollution Prevention Plan (CSWPPP)

18
19 APPENDIX G: Vicinity Map and Contract Plans
20

APPENDIX A

Standard Plans



NOTE

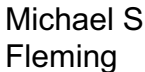
1. Gratings, Access Covers, Junction Boxes, Cable Vaults, Pull Boxes and other appurtenances within the sidewalk must have slip resistant surfaces, be flush with surface, and match grade of the sidewalk.



EXTEND SIDEWALK TRANSVERSE EXPANSION JOINTS TO INCLUDE CURB (FULL DEPTH)



EXTEND SIDEWALK TRANSVERSE JOINTS TO INCLUDE RAISED EDGE



Digitally signed by Michael S
Fleming
Date: 2020.09.24 07:40:16 -07'00

CEMENT CONCRETE SIDEWALK

STANDARD PLAN F-30.10-04

SHEET 1 OF 1 SHEET

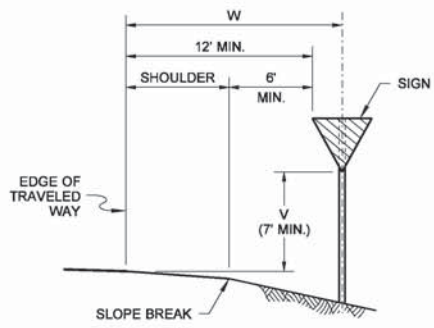
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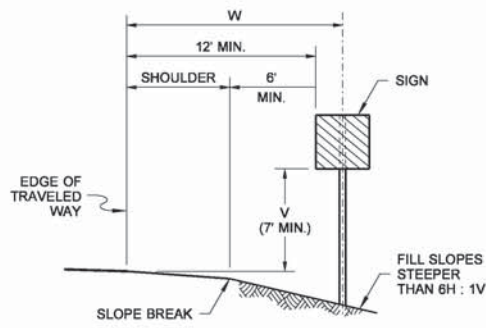
Washington State Department of Transportation



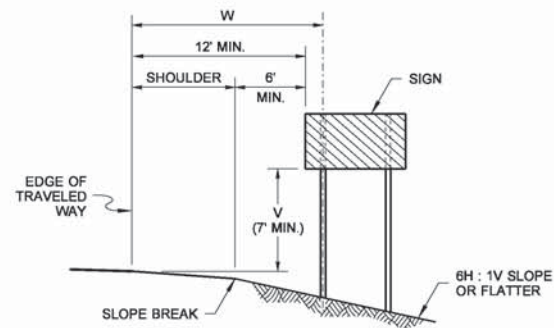
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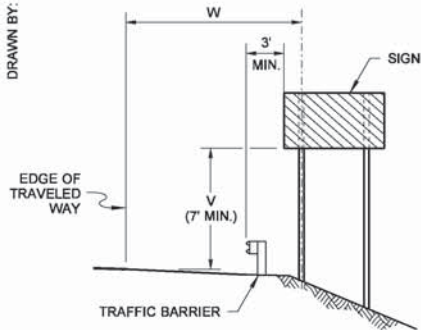
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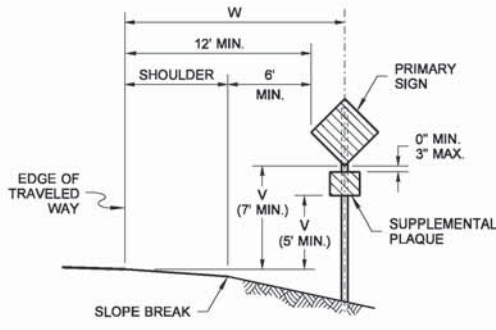
**SIGN INSTALLATION
ON STEEP FILL SLOPES**



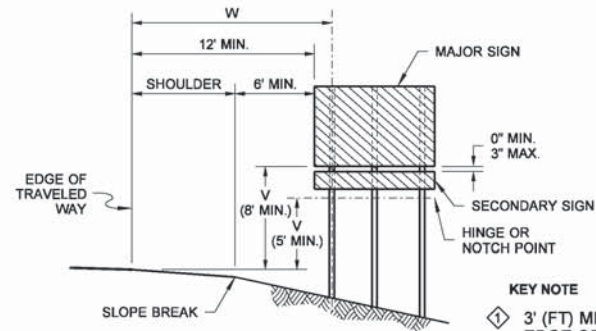
**MULTIPLE SIGN POST INSTALLATION
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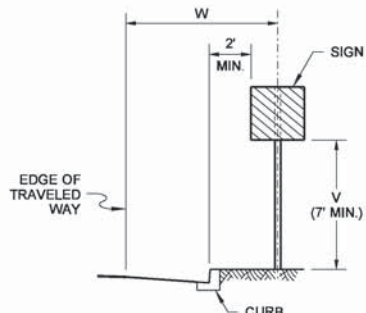
**SIGN INSTALLATION
BEHIND TRAFFIC BARRIER**



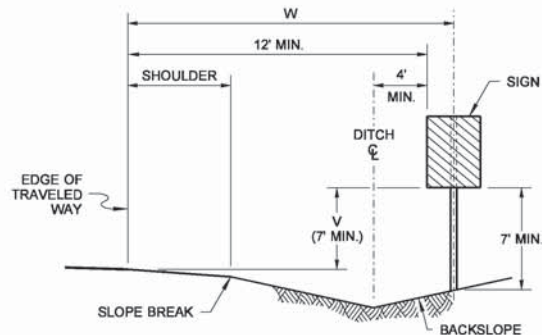
**SIGN WITH SUPPLEMENTAL
PLAQUE INSTALLATION
IN FILL SECTION**



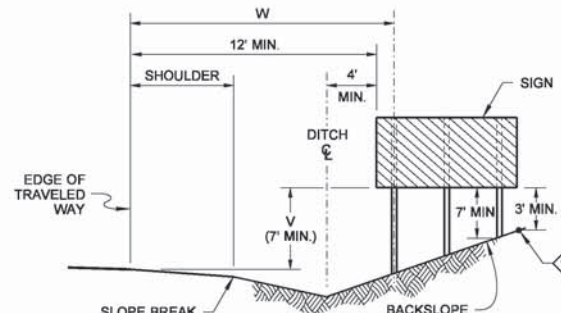
**GUIDE OR DIRECTIONAL SIGN WITH
SECONDARY SIGN INSTALLATION ON
EXPRESSWAYS AND FREEWAYS**



**SIGN INSTALLATION
IN CURB SECTION**



**SIGN INSTALLATION
IN DITCH SECTION**



**MULTIPLE SIGN POST INSTALLATION
IN DITCH SECTION**

NOTES

1. Refer to the Sign Specification Sheet of the Contract for the "V" and "W" distances.
2. The minimum vertical distance from the bottom of the sign to the ground shall not be less than 7' (ft) for signs located within the Design Clear Zone.

KEY NOTE
① 3' (FT) MIN. FROM ANY POINT ALONG BOTTOM
EDGE OF SIGN PANEL TO THE GROUND

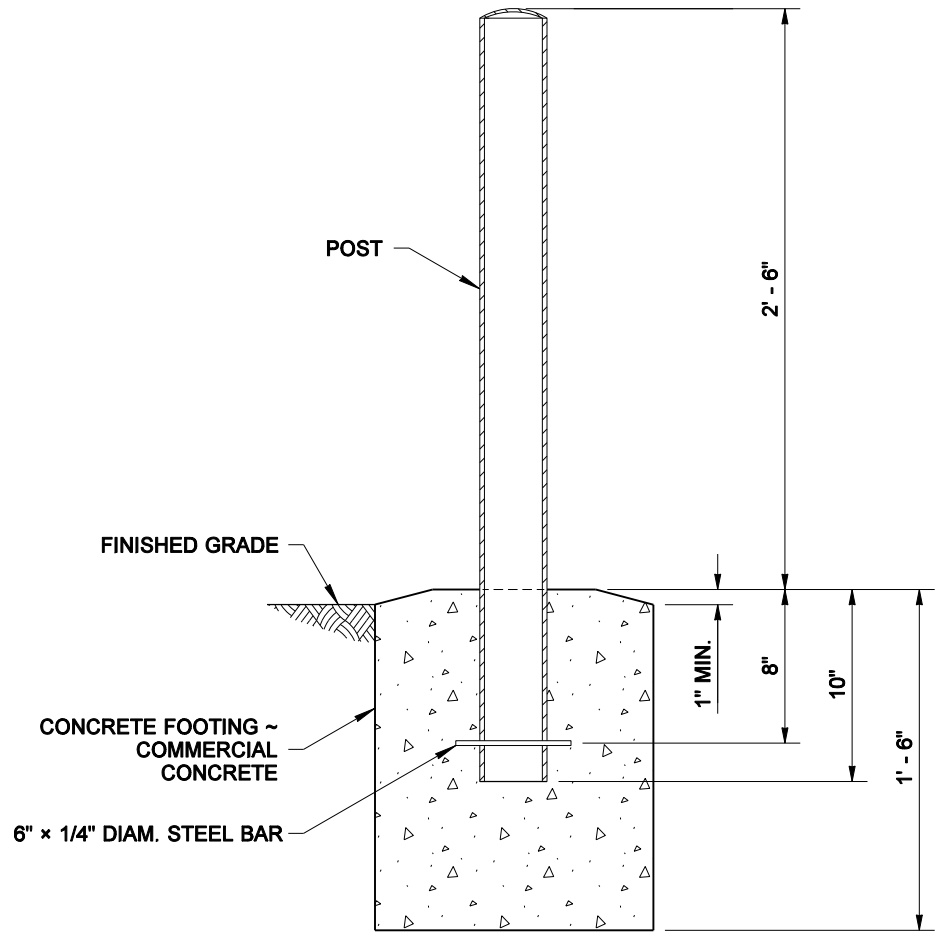


**GROUND-MOUNTED
SIGN PLACEMENT
STANDARD PLAN G-20.10-02**

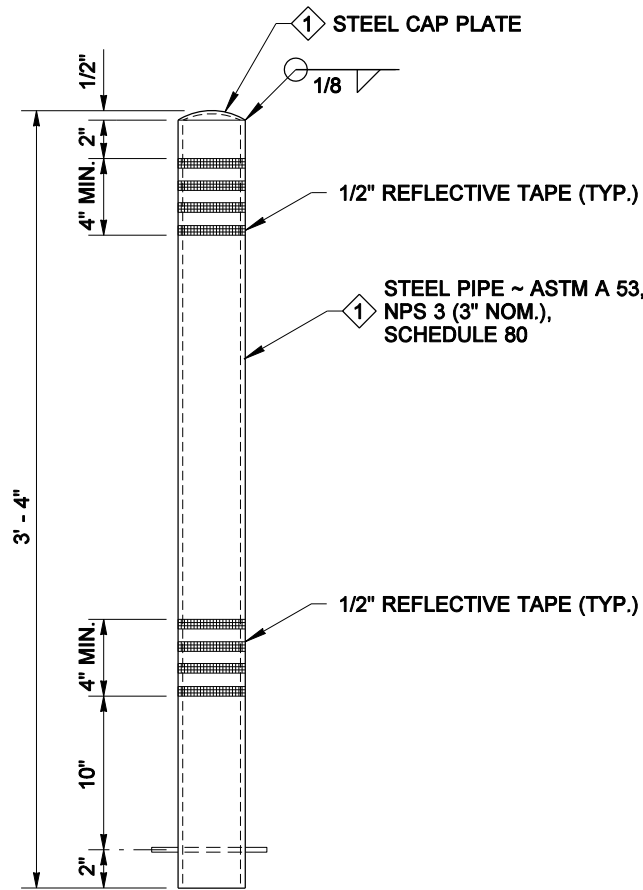
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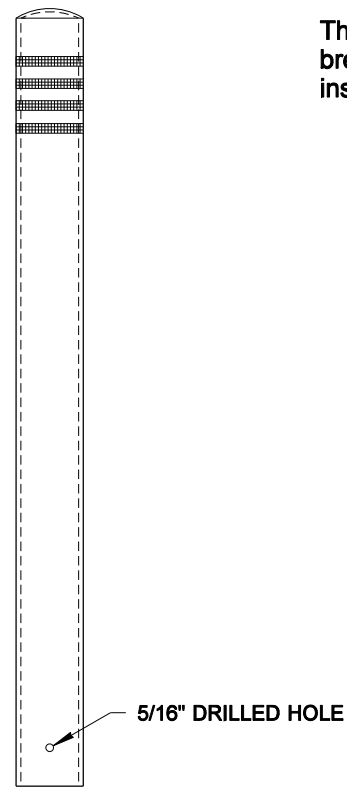
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SECTION A



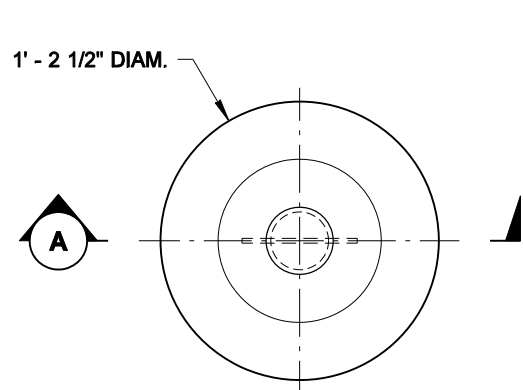
FRONT VIEW



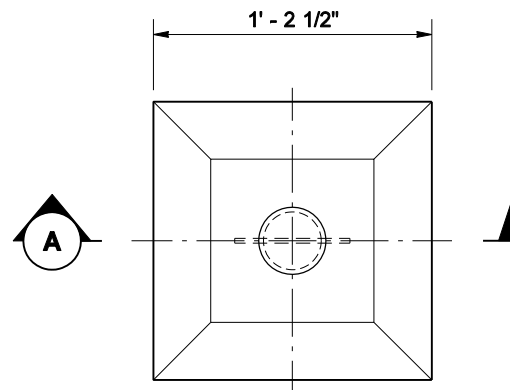
SIDE VIEW

1 PAINT ASSEMBLY WITH A "HIGHLY VISIBLE" COLOR.
(SAFETY YELLOW IS ACCEPTABLE)

POST



ROUND FOOTING



SQUARE FOOTING

PLAN VIEW

NOTE

This bollard does not have an effective breakaway design feature and cannot be installed within the Design Clear Zone.



EXPIRES JUNE 19, 2010

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BOLLARD TYPE 2

STANDARD PLAN H-60.20-01

SHEET 1 OF 1 SHEET

APPROVED FOR PUBLICATION

Pasco Bakotich III

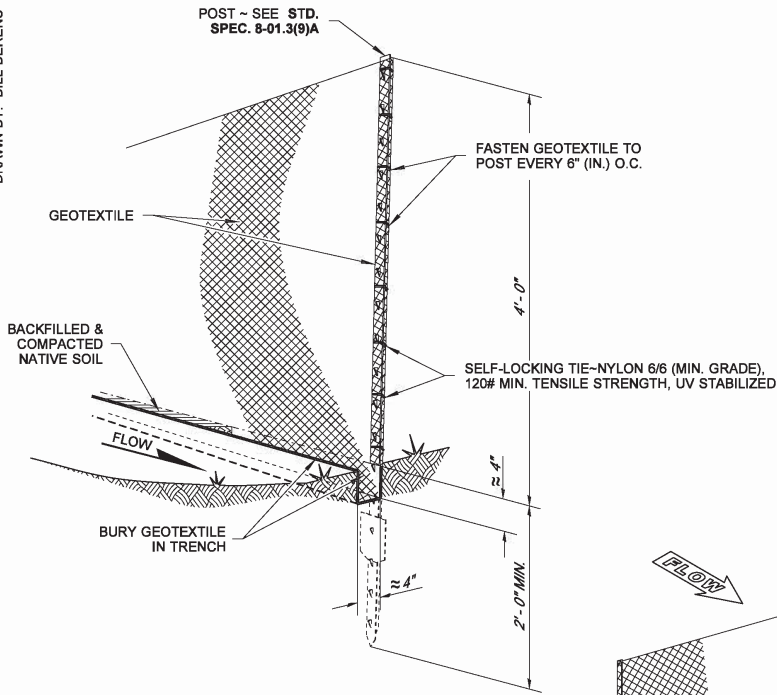
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07-03-08

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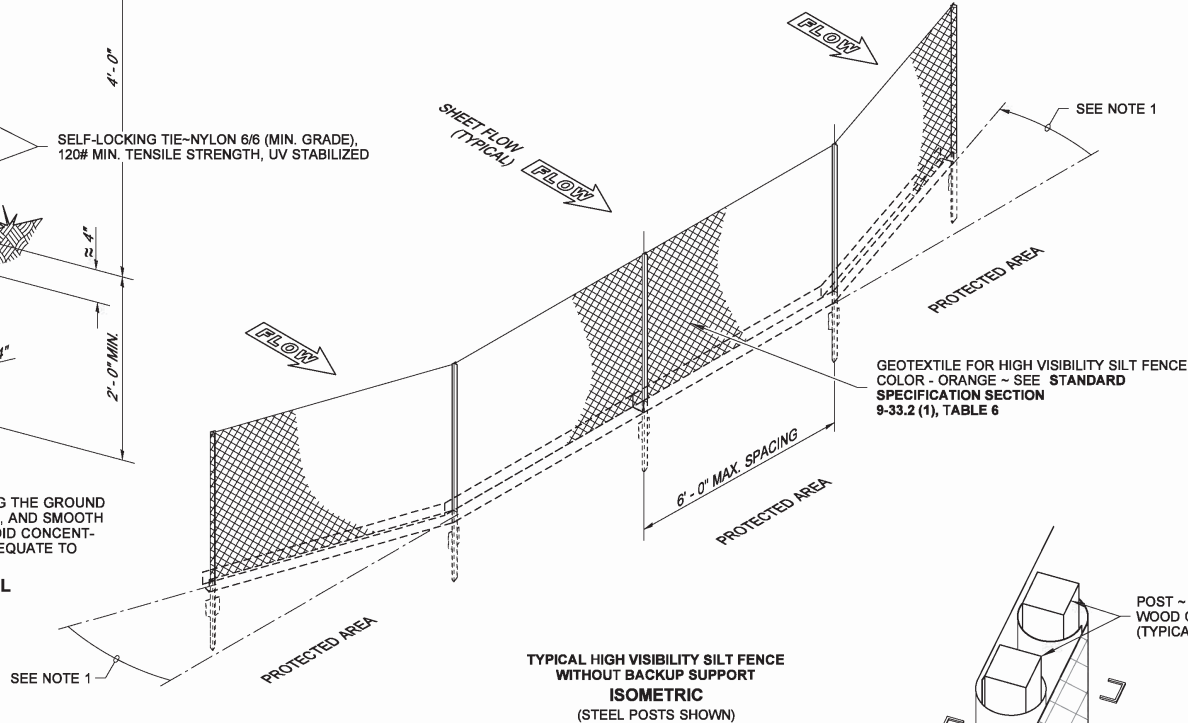


Washington State Department of Transportation



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.

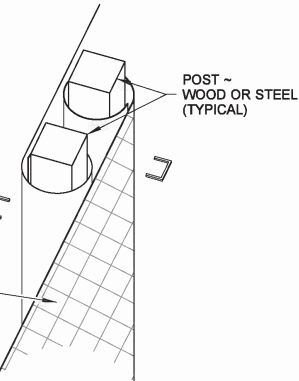
TYPICAL INSTALLATION DETAIL
 (STEEL POSTS SHOWN)



TYPICAL HIGH VISIBILITY SILT FENCE WITHOUT BACKUP SUPPORT ISOMETRIC
 (STEEL POSTS SHOWN)

FASTEN GEOTEXTILE TO POST EVERY 6" (IN.) O.C.

FABRIC (GEOTEXTILE) (TYPICAL)



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. Install the ends of the high visibility silt fence to point slightly upslope to prevent sediment from flowing around the ends of the fence.
2. Perform maintenance in accordance with **Standard Specifications 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.



STATE OF
 WASHINGTON
 REGISTERED
 LANDSCAPE ARCHITECT

SANDRA L. SALISBARY
 CERTIFICATE NO. 000860

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HIGH VISIBILITY SILT FENCE

STANDARD PLAN I-30.17-00

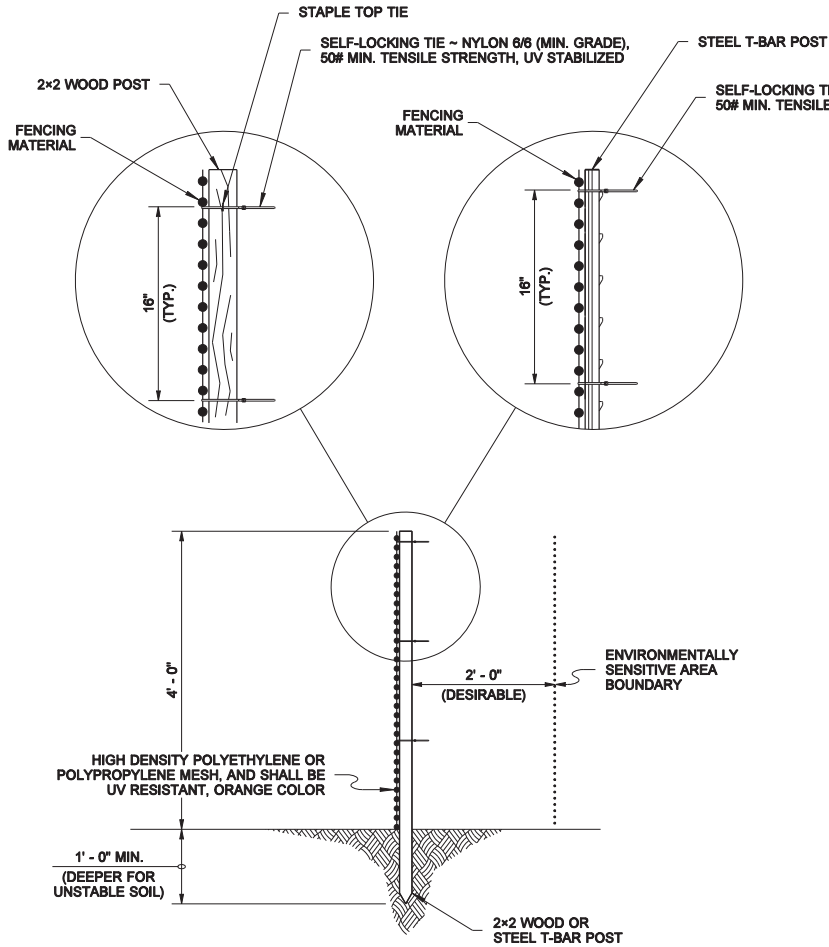
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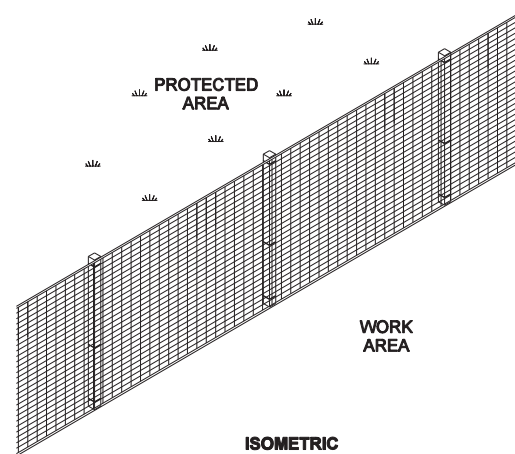
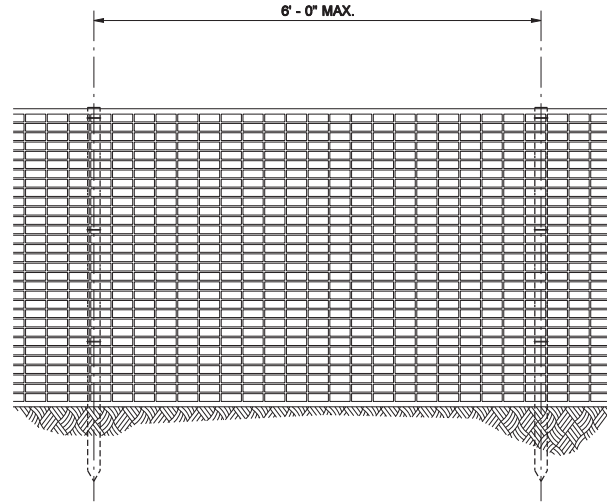
Pasco Bakotich III 3/22/13

STATE DESIGN ENGINEER DATE

Washington State Department of Transportation

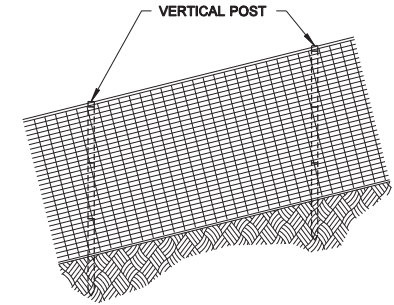


TYPICAL SECTION



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

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Pasco Bakotich III

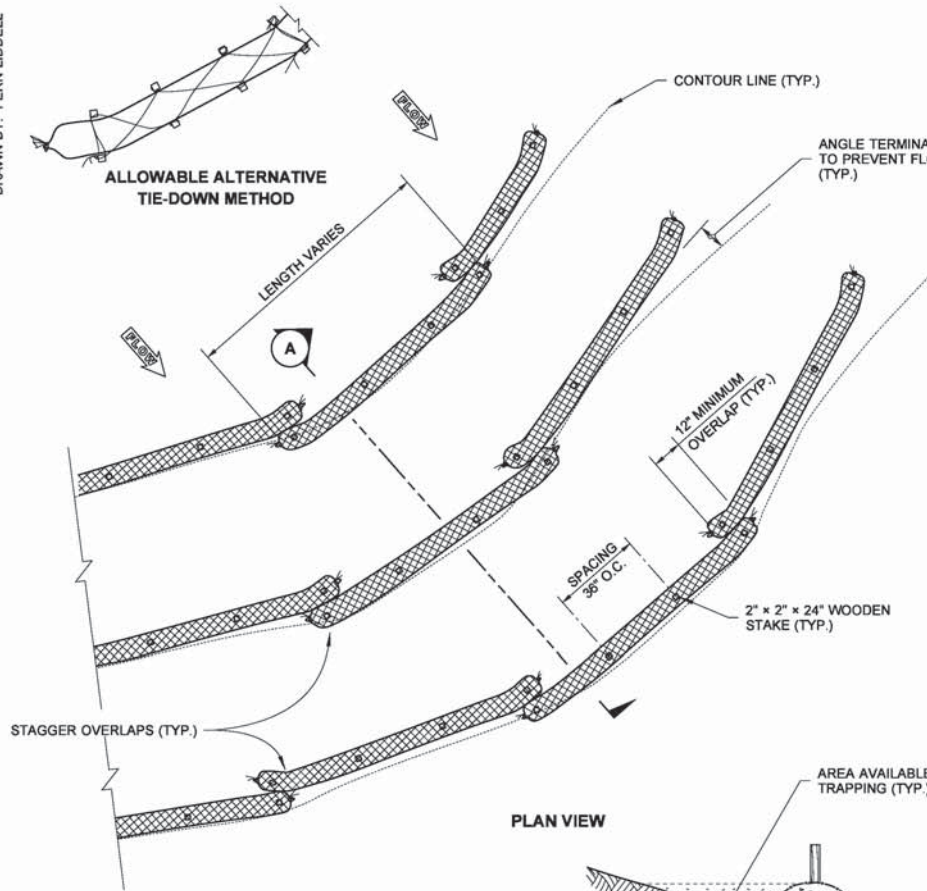
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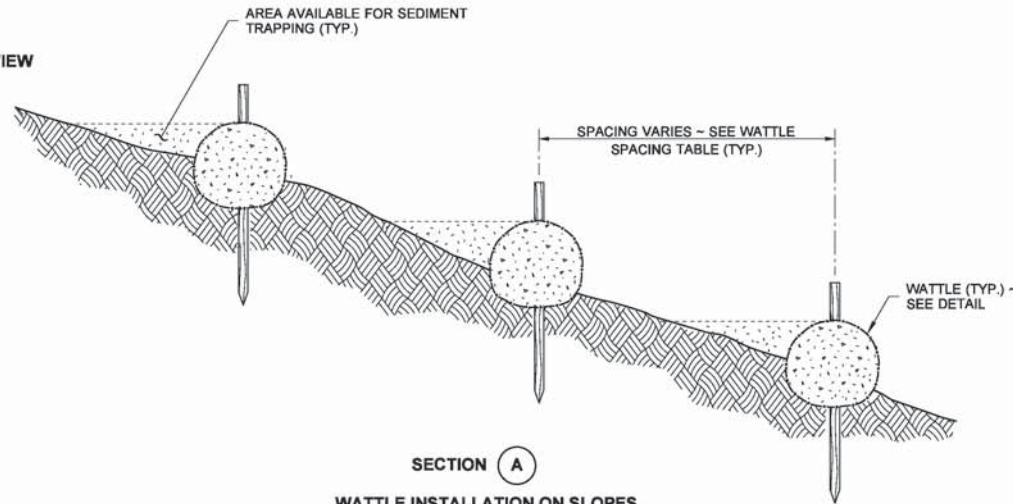


Washington State Department of Transportation

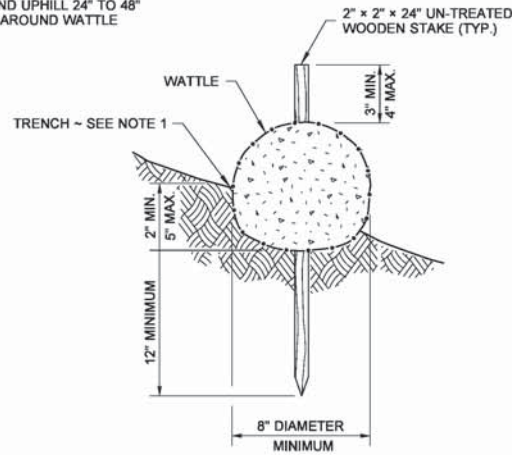


8" DIAMETER WATTLE SPACING TABLE	
SLOPE	MAXIMUM SPACING
1H : 1V	10' - 0"
2H : 1V	20' - 0"
3H : 1V	30' - 0"
4H : 1V	40' - 0"

PLAN VIEW



WATTLE INSTALLATION ON SLOPES



WATTLE DETAIL

NOTES

1. Wattles shall be in accordance with **Standard Specification 9-14.5(5)**. Install Wattles along contours. Installation shall be in accordance with **Standard Specification 8-01.3(10)**.
2. Securely knot each end of Wattle. Overlap adjacent Wattle ends 12" behind one another and securely tie together.
3. Compact excavated soil and trenches to prevent undercutting. Additional staking may be necessary to prevent undercutting.
4. Install Wattle perpendicular to flow along contours.
5. Wattles shall be inspected regularly, and immediately after a rainfall produces runoff, to ensure they remain thoroughly entrenched and in contact with the soil.
6. Perform maintenance in accordance with **Standard Specification 8-01.3(15)**.
7. Refer to **Standard Specification 8-01.3(16)** for removal.

STATE OF
WASHINGTON
REGISTERED
LANDSCAPE ARCHITECT

Sandra L. Salisbury
SANDRA L. SALISBURY
LICENSE NO. 860
DATE: June 10, 2013

NOTE: THIS PLAN IS NOT A LEGAL ENGINEERING DOCUMENT BUT AN ELECTRONIC DUPLICATE. THE ORIGINAL, SIGNED BY THE ENGINEER AND APPROVED FOR PUBLICATION, IS KEPT ON FILE AT THE WASHINGTON STATE DEPARTMENT OF TRANSPORTATION. A COPY MAY BE OBTAINED UPON REQUEST.

**WATTLE INSTALLATION
ON SLOPE**

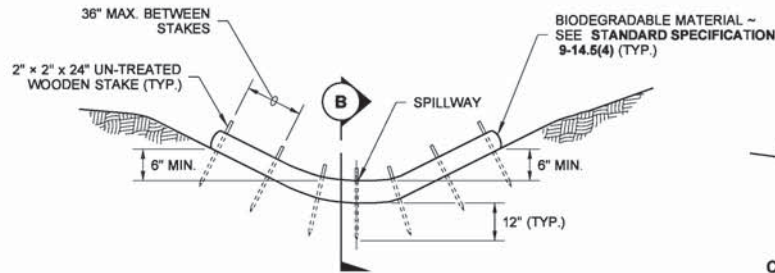
STANDARD PLAN I-30.30-01

SHEET 1 OF 1 SHEET

APPROVED FOR PUBLICATION

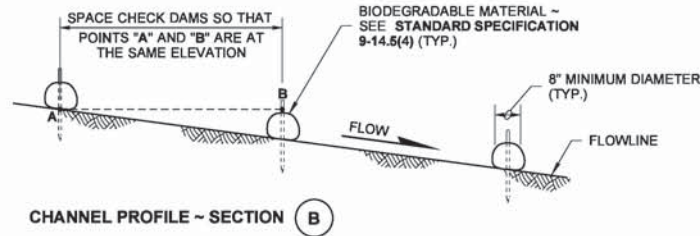
Pasco Bakotich III 6/10/13
STATE DESIGN ENGINEER DATE

Washington State Department of Transportation



TYPICAL CHANNEL SECTION

BIODEGRADABLE CHECK DAM



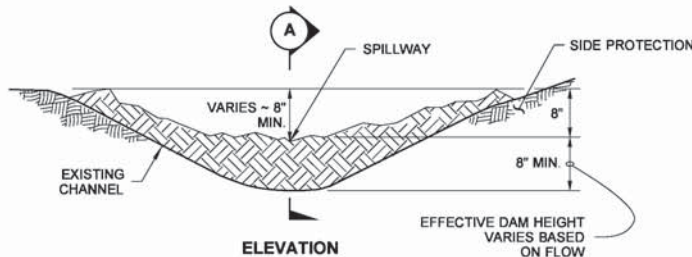
CHANNEL PROFILE ~ SECTION B

BIODEGRADABLE CHECK DAM NOTE

1. Biodegradable Check Dams may need additional or modified staking to prevent undercutting or scouring.

GENERAL NOTES

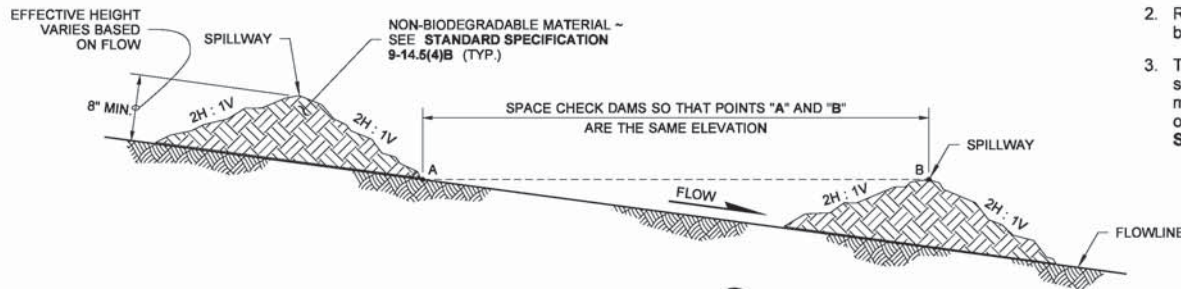
1. Check Dams shall meet the requirements of **Standard Specifications 8-01.3(6) and 9-14.5(4)**.
2. In channels, install the sloped ends of the Check Dam a minimum of 8" higher than the spillway to ensure water flows over the dam and not around it.
3. Perform maintenance in accordance with **Standard Specification 8-01.3(15)**.
4. Remove Check Dams in accordance with **Standard Specification 8-01.3(16)**.



ELEVATION

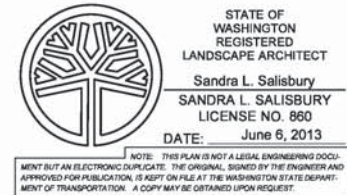
NON-BIODEGRADABLE CHECK DAM NOTES

1. Non-Biodegradable Manufactured Check Dam devices approved for use under **Standard Specification 9-14.5(4)** shall be installed per manufacturer's recommendations and shall perform in accordance with **Standard Specification 8-01.3(6)**.
2. Rock Check Dams shall be placed outside of the clear zone or behind traffic barrier.
3. To ensure adequate damming time, Rock Check Dams used as sediment control may need to be enhanced with plastic that meets the requirements of **Standard Specification 9-14.5(3)** or fabric that meets the geotextile requirements of **Standard Specification 9-33.2(1), Table 6**.



EXTENDED SECTION A

NON-BIODEGRADABLE CHECK DAM

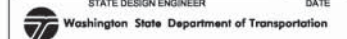


CHECK DAMS ON CHANNELS STANDARD PLAN I-50.20-01

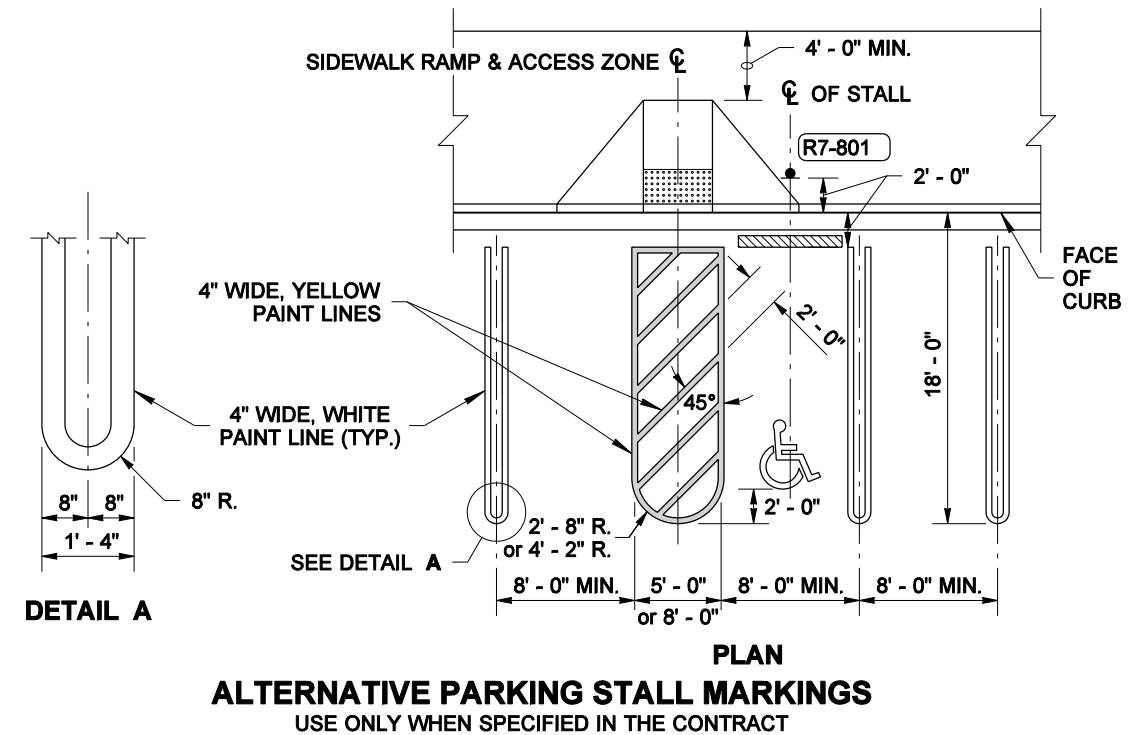
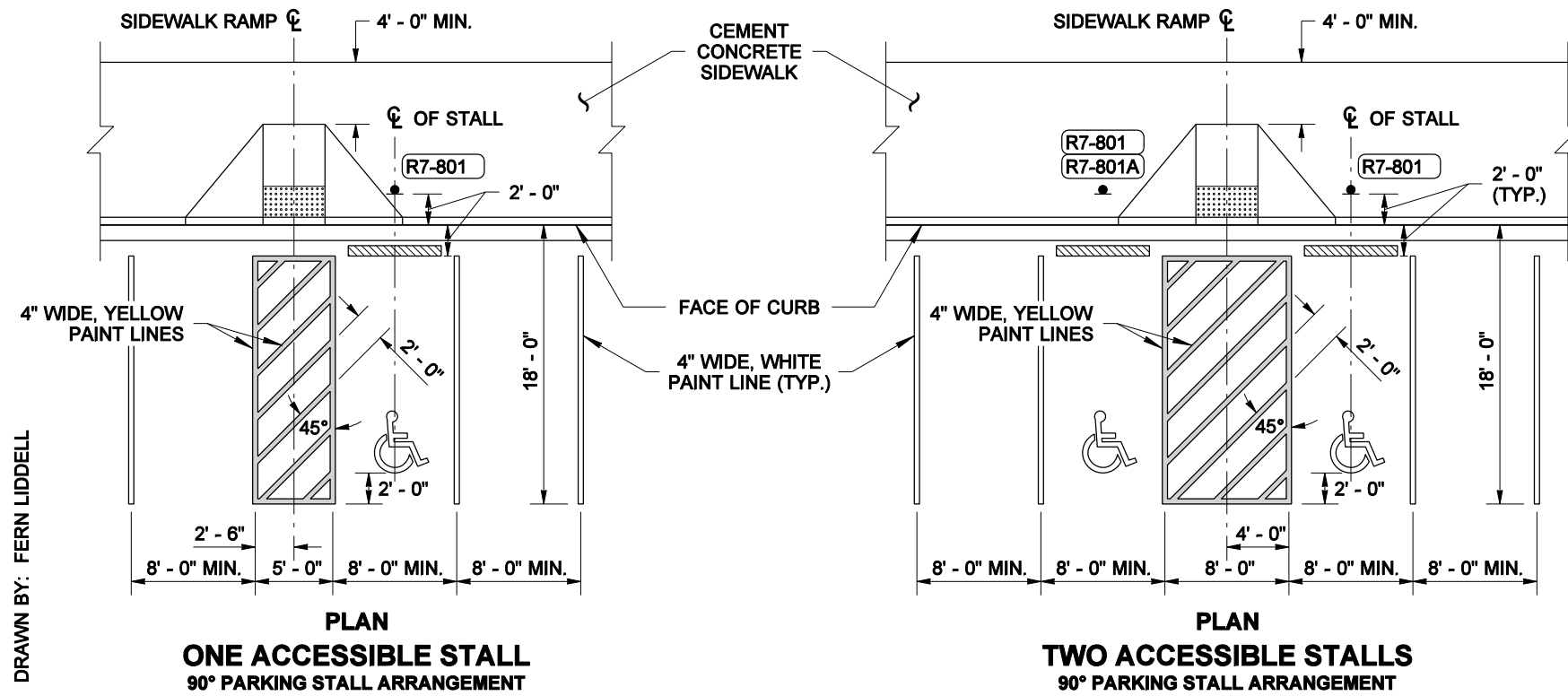
SHEET 1 OF 1 SHEET

APPROVED FOR PUBLICATION

Pasco Bakotich III 6/10/13
STATE DESIGN ENGINEER DATE



DRAWN BY: FERN LIDDELL

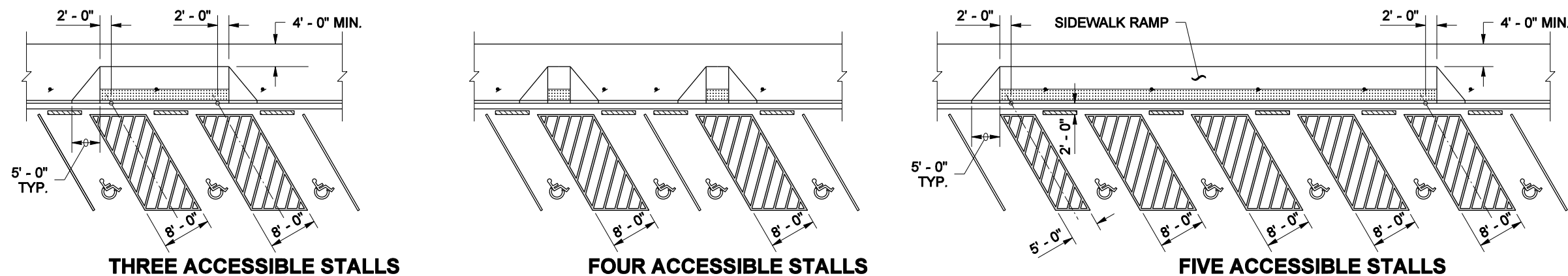
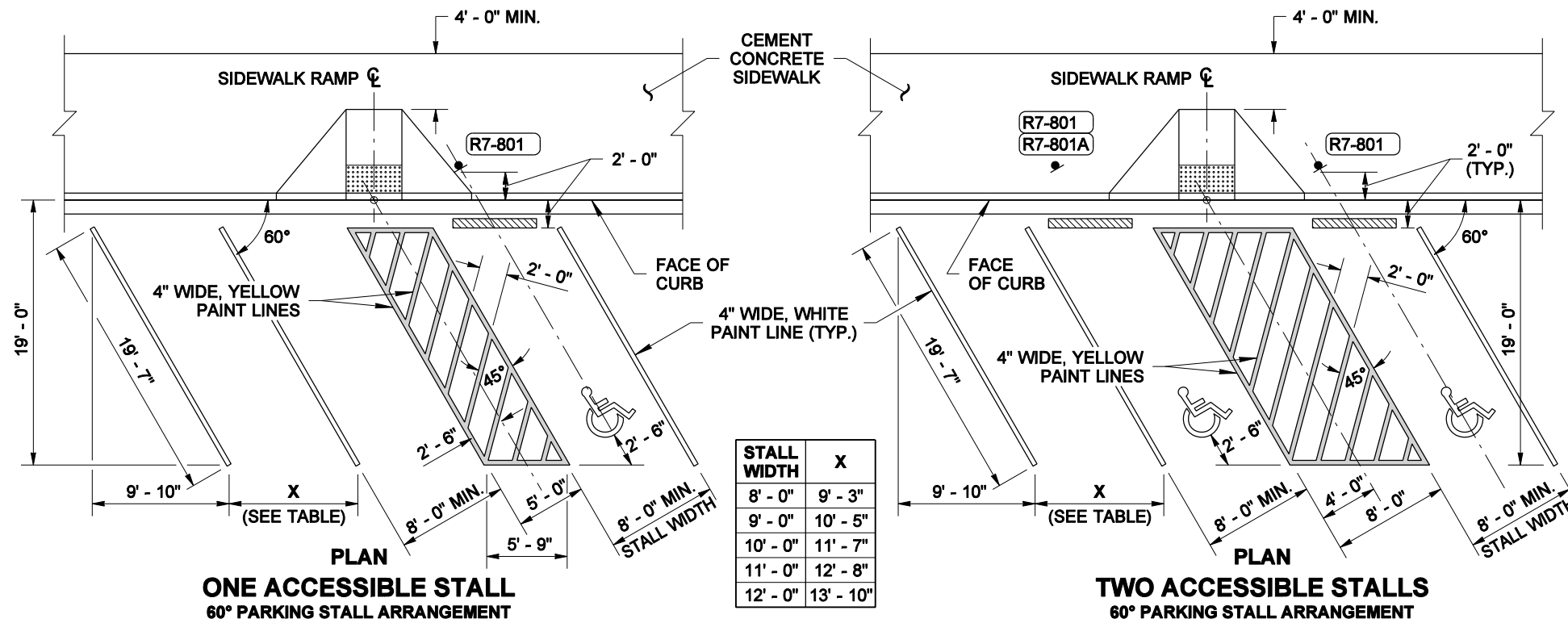


NOTES

- Three, four and five accessible stall arrangements may be either 60° (angled) or 90° (perpendicular) parking arrangements. See Contract.
- An Access Parking Space Symbol is required for each accessible parking stall. A blue background and white border are required when the symbol is installed on a cement concrete surface.
- All accessible stalls shall have wheel stops. Place wheel stops in other stalls when specified in the contract. Wheel stops shall be approximately 6" high and a minimum of 6' long.
- Refer to the Standard Plans for sidewalk ramp, detectable warning pattern, and curb details.

LEGEND

- R7-801 Reserved Parking Sign and post with R7-801A Plaque, if indicated (See Sign Fabrication Manual)
- Access Parking Space Symbol
- Manufactured wheel stop
- Detectable Warning Pattern



EXPIRES AUGUST 9, 2009

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PARKING SPACE LAYOUTS

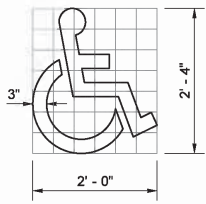
STANDARD PLAN M-17.10-02

SHEET 1 OF 1 SHEET

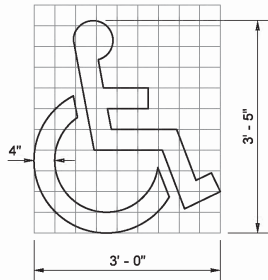
APPROVED FOR PUBLICATION

Pasco Bakotich III 07-03-08
STATE DESIGN ENGINEER DATE

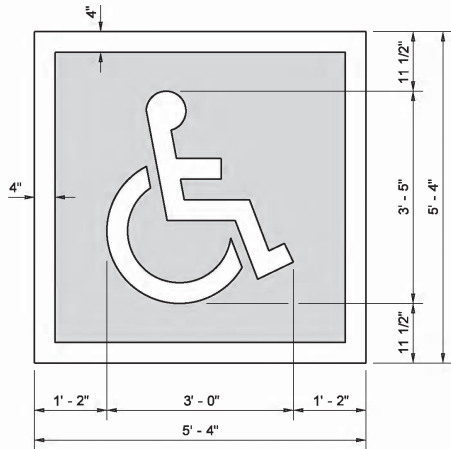
Washington State Department of Transportation



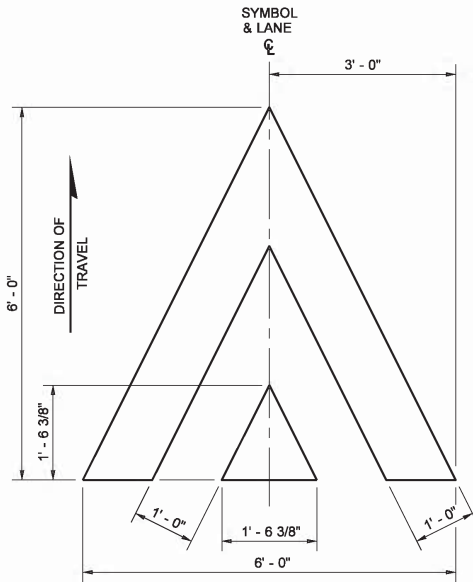
GRID IS 4" (IN) SQUARE MARKING AREA = 1.41 SQ.FT.
ACCESS PARKING SPACE SYMBOL (MINIMUM)



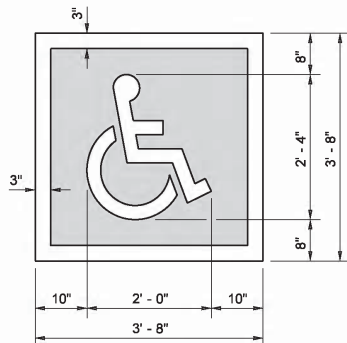
GRID IS 4" (IN) SQUARE MARKING AREA = 3.09 SQ.FT.
ACCESS PARKING SPACE SYMBOL (STANDARD)



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)



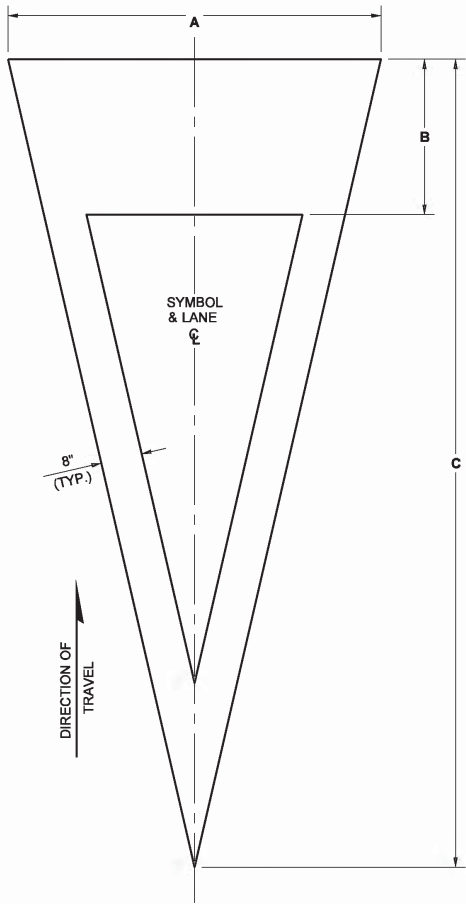
MARKING AREA = 12.08 SQ.FT.
SPEED BUMP SYMBOL



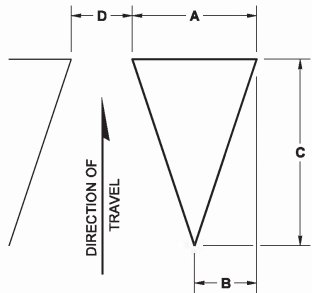
TOTAL MARKING AREA = 13.44 SQ.FT.
WHITE = 4.82 SQ.FT. BLUE = 8.62 SQ.FT.
ACCESS PARKING SPACE SYMBOL (MINIMUM)
WITH BLUE BACKGROUND AND WHITE BORDER
(REQUIRED FOR CEMENT CONCRETE SURFACES)

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	25.80 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"	ROUNDABOUT 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)



**SYMBOL MARKINGS
MISCELLANEOUS
STANDARD PLAN M-24.60-04**

SHEET 2 OF 2 SHEETS

APPROVED FOR PUBLICATION

STATE DESIGN ENGINEER
Washington State Department of Transportation



FEATURES

- Sealed IP68 LED light engine
- Bluetooth connectivity for remote control aiming and dimming
- Free Mobile App for Android and iOS
- Easy to install and pair devices
- Advanced thermal management provides long life in excess of 100,000+ hours
- Runs cool to the touch - less than 40°C



CONTROL TECHNOLOGY



SPECIFICATIONS

HOUSING

- Pour Box rough-in housing for installation below grade
- High temperature UV resistant thermal plastic, 3/16" minimum wall, black
- Includes a splice box with molded plastic splice cover and silicone gasket
- Three 1" NPT in bottom for through wiring on LTV81 and LTV82
- Two 1" NPT in bottom for through wiring on LTV83. 107 cu. in. splice area for LTV81
- 52 cu. in. splice area for LTV82. 24 cu. in. splice area for LTV83
- Rough-in housing supplied with a protective aluminum debris shield and includes an orientation label for proper installation alignment. This allows for clean and easy installation in concrete pad or soil. Pour Box can be shipped separately as a quick-ship if requested
- One-piece impregnated cast bronze component module is fully sealed and secured to the face trim from the underside
- A high temperature, anti-siphon, IP68 sealed cable extends from the component module to the splice box inside the housing
- The fully assembled component module is secured to the housing with (4) 1/4-20 tamper-resistant and high grade stainless steel fasteners
- Slip Resistant Lens (SR) and Rebar Cage Anchor (RCA81)
- When installed in concrete, fixture will withstand drive-over by vehicles weighing up to 4,500 lb.
- Optional Rebar Cage Anchor (RCA8x)
- Face trim has 1/16" 304 stainless steel plate with M33 brushed finish shall cover the cast bronze Lens Frame and provide a flat surface

OPTICS

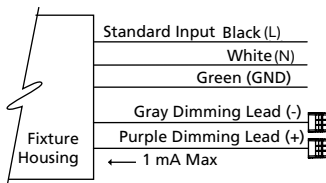
- Spot (SP), Narrow Flood (NF), and Wall Wash (WW) optical modules are adjustable up to 15° utilizing a Bluetooth enabled motor assembly
- Clear 5/16" thick tempered glass lens and silicone gasket is retained securely within the component module
- Optional Prismatic Lens (PL) available

ELECTRICAL

- All electronic components are UL and CSA recognized and are mounted directly to the component module for maximum heat dissipation and modularity. Driver is IP67 with -30°C minimum temperature rating
- Product comes standard with a UL Recognized 10kA surge protector

CONTROLS

- Standard fixtures dimming range is from 10% to 100% and be compatible with 0-10V, user-defined, control devices



BLUETOOTH

- Integral Bluetooth module used to adjust optics and dim fixture to desired setting when paired with KIM LTV8 Remote App via cellular/tablet device
- Fully qualified Bluetooth 1.1, 1.2, 2.0, 2.1. Bluetooth v2.0+EDR compatible with Android devices running Android Gingerbread API level 9 forward. Bluetooth 4.0 LE compatible with iOS devices - iPhone 4S and later, 5th generation iPod touch, the iPad Mini and the 3rd generation and later of the full size iPad with iOS 5 or later

RELATED PRODUCTS

[LTV8FF RGBW](#)

[LTV8FF](#)

[LTV8SS RGBW](#)

Lightvault 8 Stainless Steel



- Bluetooth Apps are available for Apple iOS and Google Android mobile devices and are downloadable via the internet at Apple App Store or Google Play

CAUTION:

- Fixtures must be grounded in accordance with national, state and/or local electrical codes. Failure to do so may result in serious personal injury

CERTIFICATIONS AND LISTINGS

- Listed to UL1598 and UL8750 25°C ambient operation
- SASO Certified for LTV82/83
- IP68 rated
- IEC 66262 Mechanical Impact Code IK09
- CISPR 15 Compliant, per product standard EN 55015:2013

WARRANTY

- 5 year warranty
- See [HLI Standard Warranty](#) for additional information

KEY DATA	
Lumen Range	622–2616
Wattage Range	14–44
Reported Life (Hours)	L70/60,000

DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

ORDERING GUIDE

Example: LTV82SS-NF-18L-4K-UV-SR-RCA82

CATALOG #

HOUSING

LTV8											
Model		Distribution		Source		Color Temperature		Voltages	Lens Options¹		Rebar Cage Anchor
LTV81SS	13" Dia.	SP	Spot	36L	36 LEDs	3K	3000K	UV 120-277V	PL	Prismatic Lens	RCA81 for LTV81
LTV82SS	10-3/8" Dia.	NF	Narrow Flood	18L	18 LEDs	4K	4000K		SR	Slip-Resistant Lens	RCA82 for LTV82
LTV83SS	7-15/16" Dia.	WW	Wall Wash	12L	12 LEDs	5K	5000K				RCA83 for LTV83

1 All lens options are integral parts of component module and must be installed at factory.

DELIVERED LUMENS

LTV81SS

Optical Module	Source	Color Temp.	Absolute Lumens	Center Beam Candle Power*	Voltage	Total System Watts	Max. Amps	Beam Angle (50%) H x V
SP	36L	3K	3529	42861	UV	42W	.350 for 120V .202 for 208V .175 for 240V .152 for 277V	12.9°
		4K	3617	45492				
		5K	3658	46015				
NF		3K	2911	3248				46°
		4K	2985	3310				
		5K	3020	3379				
WW		3K	3739	6083		44W	.367 for 120V .212 for 208V .183 for 240V .159 for 277V	53.1°
		4K	3835	6239				
		5K	3878	6309				

LTV82SS

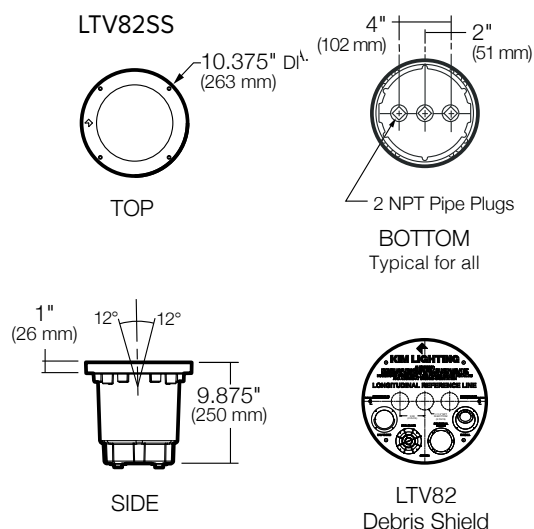
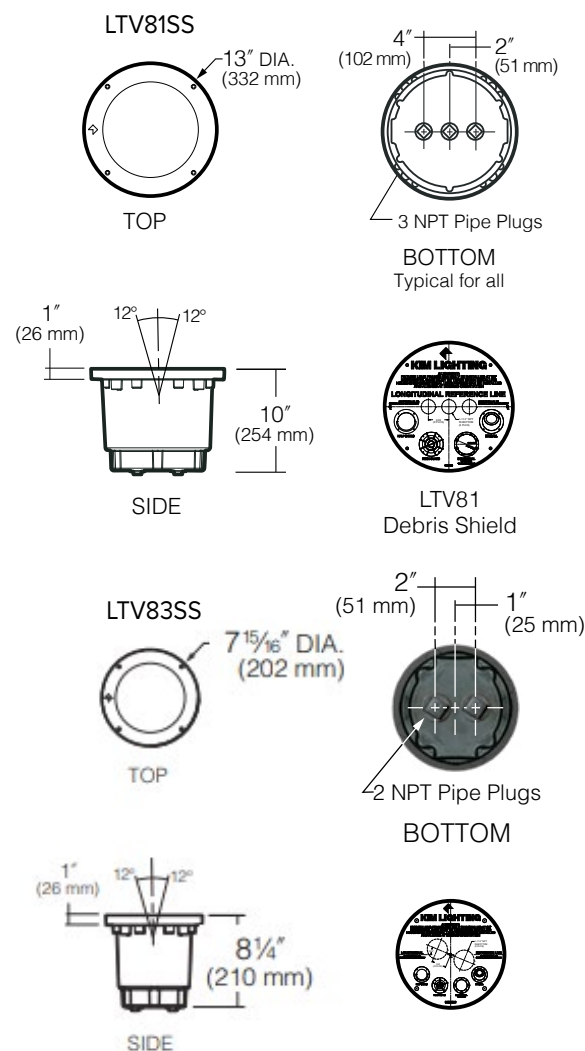
Optical Module	Source	Color Temp.	Absolute Lumens	Center Beam Candle Power*	Voltage	Total System Watts	Max. Amps	Beam Angle (50%) H x V
SP	18L	3K	1809	23634	UV	22W	.183 for 120V .106 for 208V .092 for 240V .079 for 277V	13°
		4K	1857	23065				
		5K	1875	25186				
NF		3K	1558	1889				44.1°
		4K	1597	1911				
		5K	1617	1934				
WW		3K	1637	3528		19W	.158 for 120V .091 for 208V .079 for 240V .069 for 277V	58.9°
		4K	1679	3616				
		5K	1698	3659				

LTV83SS

Optical Module	Source	Color Temp.	Absolute Lumens	Center Beam Candle Power*	Voltage	Total System Watts	Max. Amps	Beam Angle (50%) H x V
SP	12L	3K	1151	14996	UV	14W	.117 for 120V .067 for 208V .058 for 240V .051 for 277V	12.7°
		4K	1180	15382				
		5K	1195	15564				
NF		3K	988	1204				50.3°
		4K	1013	1235				
		5K	1025	1250				
WW		3K	1222	2611				52.3°
		4K	1253	2679				
		5K	1258	2709				

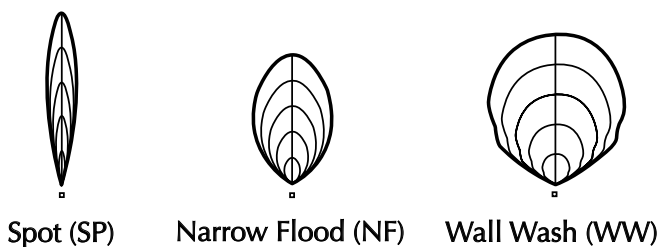
KEY: RG = Rock Guard, SP = Spot, NF = Narrow Flood, WW = Wall Wash (PicoPrism™). 36L = 36 LEDs, 18L = 18 LEDs, 16L = 16 LEDs, 12L = 12 LEDs, 3K = 2800K to 3175K, 4K = 3800K to 4600K, 5K = 4600K to 5600K, UV = Universal Voltage shall range from 120V-277V with a ±10% tolerance.
 * The SP and NF are based on Candela exiting unit straight up. The WW is for highest candela angle.

DIMENSIONS



LIGHT DISTRIBUTIONS:

LTV81SS, LTV82SS, LTV83SS



ELECTRICAL DATA

Spectroradiometric

	3K	4K	5K
Correlated Color Temp. CCT (K)	2800K to 3175K	3800K to 4600K	4600K to 5600K
Color Rendering Index (CRI)	≥72	≥72	≥72
Power Factor	>.90	>.90	>.90

L70 Data

	Calculated	Reported*
350 mA	100,000	60,000

*Based on test duration.

Lightvault® LTV81/LTV82/LTV83 Installation Instructions

In-grade luminaires often become ineffective or inoperable simply because they are not installed and maintained correctly. While it is tempting to install these fixtures at or below grade, this generally turns out to be unsatisfactory unless the installation is in a paved area. When the fixtures are installed too low, they become a collection point for dirt, mud and encroaching ground cover.

INSTALLATION GUIDELINES:

Remember, **always isolate and elevate.**

With a little pre planning and care, below-grade luminaires can be installed in a manner that will promote easy maintenance and longevity. The following installation methods represent our best recommendations.



CAUTION

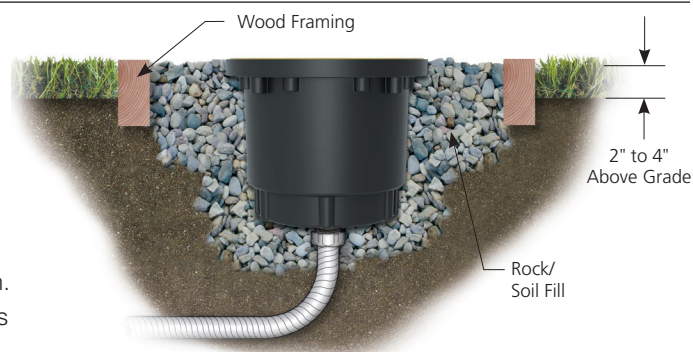
All conduit connections **must be sealed Per 2011 NEC 300.5 (G)** in order for the Pour box to remain dry! (sealant not supplied.)

CREATE A BUFFER ZONE:

When the fixtures are to be installed in areas planted in ground cover and shrubbery, a buffer zone is needed to prevent lens overgrowth as the plants mature. Elevating the fixture will encourage water runoff around the unit rather than over the top.

Advantages of a buffer zone:

- Helps prevent lens overgrowth.
- Provides a defined edge for trimming.
- Provides drainage around fixture and helps keep the lens clean.
- Rock-fill partially buffers fixture from corrosive soil and improves ground drainage.
- Visually looks like a flush mounted installation.

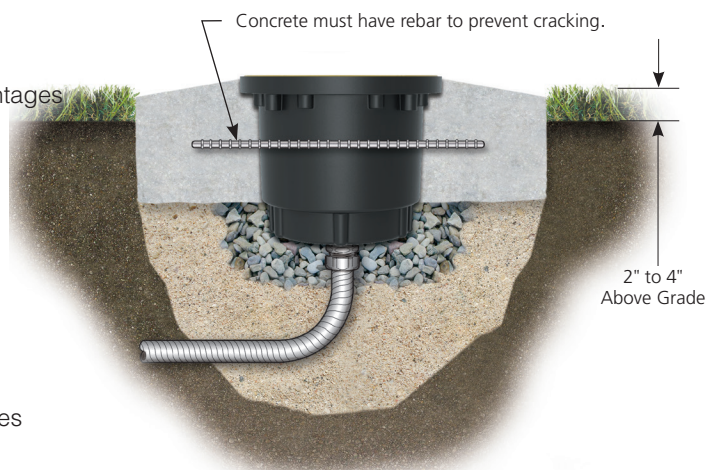


INSTALL IN CONCRETE:

Another option for ground cover, shrubbery or lawn areas is to encase the fixture in concrete. This has some additional advantages over the rock-fill method (above).

Advantages of concrete installation:

- Allows higher wattage lamps because concrete makes an excellent heat sink.
- Totally isolates fixture from corrosive soils.
- Helps prevent lens overgrowth.
- Allows edging without scratching fixture.
- Provides drainage around fixture and helps keep the lens clean.
- Rock-fill partially buffers fixture from corrosive soil and improves ground drainage.
- Visually looks like a flush mounted installation.



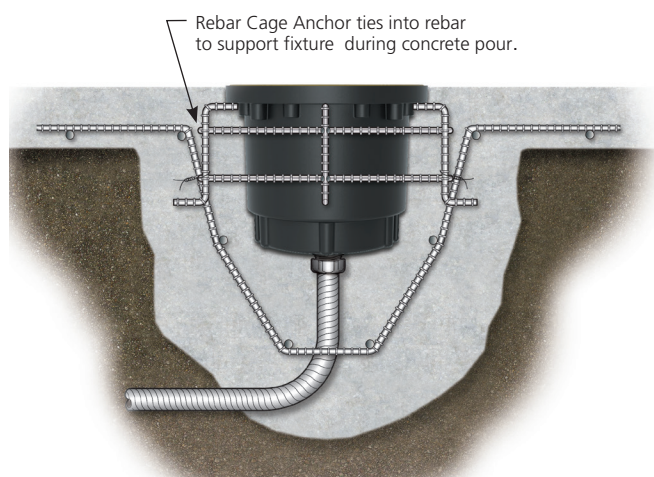
Note: Always use adequate rebar surrounding the fixture to prevent cracking of concrete.

USE REBAR CAGE ANCHOR IN PAVED AREAS

To make fixture installation easier in concrete, use Rebar Cage Anchor (RCA81/82/83) and tie into paving rebar to support fixture during concrete pour.

Advantages of paved area installation with rebar cage anchor

- Supports fixture during concrete pour.
- Can be easily tied into reinforcing rods used for paving
- Easily adapts to any paving material.



NOTE: Concrete foundation is to be designed according to local soil conditions (by others).

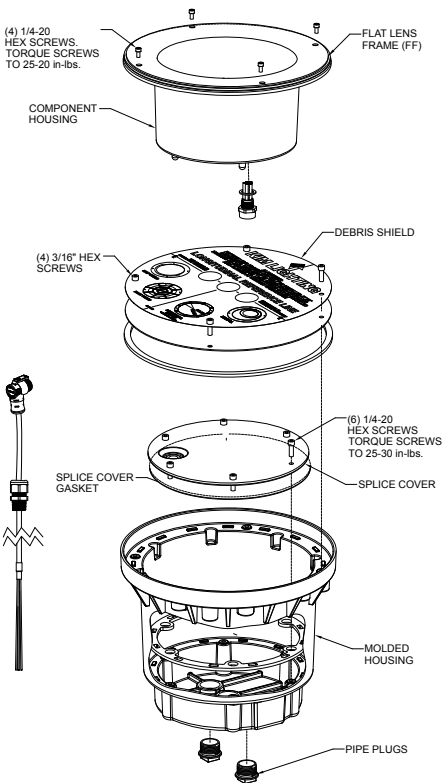
Lightvault® LTV81/LTV82/LTV83 Installation Instructions

CAUTION:

- To help maintain a clean, dry splice compartment, **always apply sealant to both conduit threads and molded housing to seal.** (sealant not supplied.)
- When tightening gasketed splice cover into bottom of molded housing, always **Torque screws to 25-30 in-lbs in a star pattern.**
- Make sure all electrical supply is **OFF** before starting fixture installation.

ALIGNMENT: Fixture lens frames can be installed on housings at 90° Increments. Care must be taken when installing the housing so directional lens frames can be installed at a desired orientation.

Tools Required: RTV sealant, 1" tamper resistant hex wrench, adjustable wrench or pipe wrench



IMPORTANT SAFETY INSTRUCTIONS TO AVOID RISK OF FIRE OR INJURY!

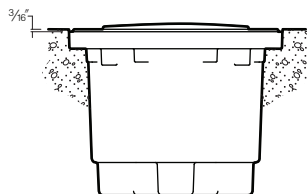
WARNING: Fixtures must be grounded in accordance with local codes or the National Electrical Code. Failure to take these steps may result in serious personal injury. All electrical work should be done by a qualified electrician

⚠ SAFETY WARNING: DO NOT install these fixtures in submersible installations such as fountains or swimming pools. Extreme caution should be taken when installed in paved areas. **MAINTENANCE:** To maintain light efficiency and prevent overheating, lenses must be kept clean and free of dirt, dust, leaves, trash and mineral deposits from water. For optimum performance a regularly scheduled maintenance program should be followed. DO NOT operate luminaire with missing or damaged lens.

KEEP THIS SHEET FOR FUTURE REFERENCE.

FLUSH MOUNTING:

For flush mounting when installing in concrete, top edge of molded housing should be 1/8" below concrete grade.



Lightvault® LTV81/LTV82/LTV83 Installation Instructions

CAUTION

- Before installing de-energize circuit and lock out.

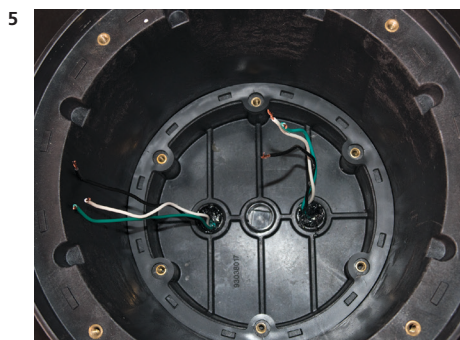
MOLDED HOUSING ROUGH-IN INSTALLATION:

Read guidelines on page 1 before starting.

1. Excavate 20" dia. hole in desired fixture location. Run conduit 3" deeper than height of housing. Fill with gravel for drainage.
2. With F" Allen wrench, unscrew (4) hex screws to remove debris shield from molded housing.
3. **Check to make sure pour box is dry.**
4. Remove gasketed splice cover in bottom of molded housing using F" Allen wrench and (6) hex screws.
5. Remove pipe plugs from molded housing. Connect molded housing to conduit. **Apply sealant to both conduit threads and molded housing to seal.** (sealant not supplied.)
6. Pull (3) supply conductors into splice compartment.
7. Connect field wires to splice cover connector observing polarity, i.e. green to ground, white to common and black to voltage using provided silicone wire nuts. Cap off and secure the DMX wires with remaining wire nuts.
8. Cover the bottom of molded housing with a gasketed splice cover using 3/16" Allen wrench and (6) hex screws. **Torque screws to 25-30 in-lbs in a star pattern.**
9. With F" Allen wrench, screw in (4) hex screws to reinstall debris shield.
10. Align molded housing using markings on debris shield keeping longitudinal reference line parallel to street, wall or walkway.
11. Back fill for stability. **Do not** back fill with bark or Vermiculite. **Never install below surrounding ground level.**

COMPONENT MODULE INSTALLATION:

12. When the component housing has been delivered to site and you're ready to install, unscrew (4) hex screws with F" Allen wrench to remove debris shield.
13. Attach the connector to the housing by pressing it with your thumb/palm until it clicks into place. **Sealant on connectors is not necessary as rubber o-rings are in place to keep connectors water-tight.**
14. Drop component housing in place and attach to molded housing using F" tamper resistant hex wrench and (4) tamper resistant hex screws. **Torque screws to 25-30 in-lbs.**
15. **NOTE:** When installing an LTV8 with Wall Wash distribution, the Kim Lighting logo on the rim of the housing should be placed closest to the wall.



Lightvault® LTV81/LTV82/LTV83 Installation Instructions

Note: Requires an Apple device that supports Bluetooth low energy (BLE). This includes iPhone 4S and above, iPad 3 and above and iPad mini.

APPLE iOS KIM Remote Quick Start Guide

Setting Up And Enabling Wireless Controlled Optics:

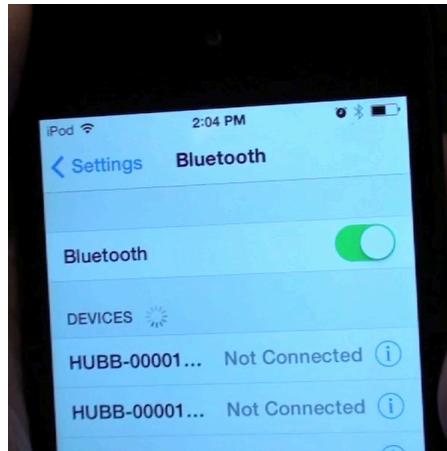
LTV8 luminaires can be controlled via Bluetooth®-equipped mobile devices.

1. Go to the Apple Store and download the **KIM Remote** app.
2. Power on the LTV8 luminaire.
3. Turn on Bluetooth in menu > settings.
4. Open the Kim Remote app.
5. App may request permission to enable Bluetooth functionality. If it does, choose "Yes" (If Bluetooth is already enabled, skip to step 6).
6. Open application menu with device's "Menu" key.
7. Stand near luminaire to be adjusted, and choose "connect" option.
8. Select "Scan for devices." A list of both already-paired, and available Bluetooth-ready devices will appear.
9. Select LTV8 fixture you wish to adjust. Closest devices appear highest on list; Lightvault luminaires will appear with "HUBB" prefix followed by a number (Example: HUBB-1001).
10. Enter security code supplied in product documentation.
11. Kim logo in center of screen will indicate "connected" when LTV8 is paired with your mobile device. The fixture will blink 3 times to confirm connection.
12. Use arrow keys to adjust deck-tilt focus, up to 15° in full 360° rotation - Tap for fine adjustments, hold down arrows for continuous sweep.
13. Use dimmer slider bar to adjust fixture brightness level. Tap (+/-) for fine increments. (The fixture will dim down as far as 20% of the full 100%)
14. After desired focus and brightness levels are reached, open application menu. Select "disconnect" to save settings.
15. Repeat steps 8-11 for each additional fixture.

(NOTE: All fixtures may be paired with device prior to adjustment. In this case, repeat steps 8-12.)

Tip: Bluetooth signal exits the fixture through the glass lens. The signal cannot travel through the brass housing. For best results, be sure your device is in the line of sight of the LED's.

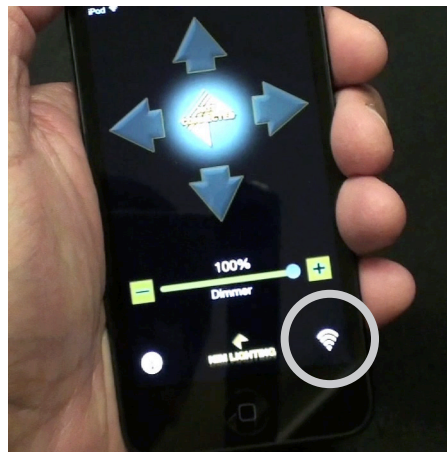
* For Bluetooth pairing PIN see label near the serial number on the fixture or contact your KIM agent.



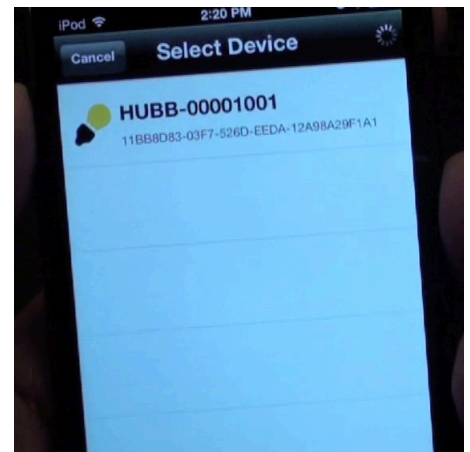
3. Turn on Bluetooth.



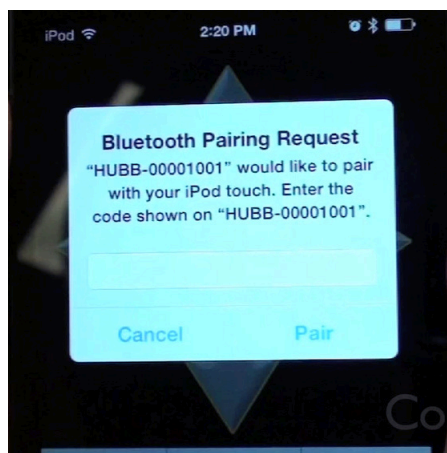
4. Open KIM Remote.



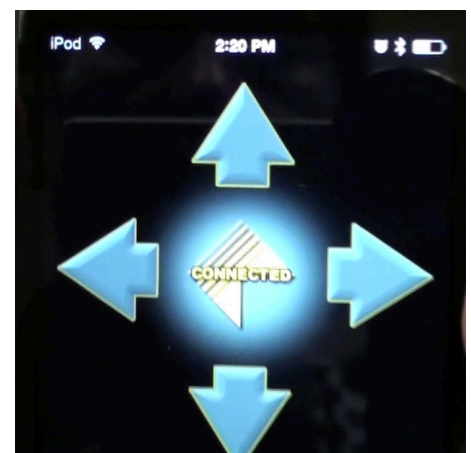
7. Click to connect.



9. Select Device.



10. Enter PIN*.



11. Connected.

Lightvault® LTV81/LTV82/LTV83 Installation Instructions

ANDROID OS KIM Remote Quick Start Guide

Setting Up And Enabling Wireless Controlled Optics:

LTV8 luminaires can be controlled via Bluetooth®-equipped mobile devices.

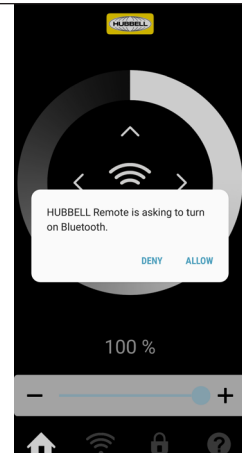
1. Go to the Apple Store and download the **Hubbell Remote** app.
2. Power on the LTV8 luminaire.
3. Turn on Bluetooth in menu > settings.
4. Open the Kim Remote app.
5. Stand near luminaire to be adjusted, and choose "connect" option.
6. Select "Scan for devices." A list of both already-paired, and available Bluetooth-ready devices will appear.
7. Select LTV8 fixture you wish to adjust. Closest devices appear highest on list; Lightvault luminaires will appear with "HUBB" prefix followed by a number (Example: HUBB-1001).
8. Enter security code supplied in product documentation.
9. The word connected next to the device serial number will indicate the LTV8 is paired with your mobile device. The fixture will blink 3 times to confirm connection.
10. Use arrow keys to adjust deck-tilt focus, up to 15° in full 360° rotation - Tap for fine adjustments, hold down arrows for continuous sweep.
11. Use dimmer slider bar to adjust fixture brightness level. Tap (+/-) for fine increments.
12. After desired focus and brightness levels are reached, open application menu. Select "disconnect" to save settings.
13. Repeat steps 8-11 for each additional fixture.

(NOTE: All fixtures may be paired with device prior to adjustment. In this case, repeat steps 7 - 12.)

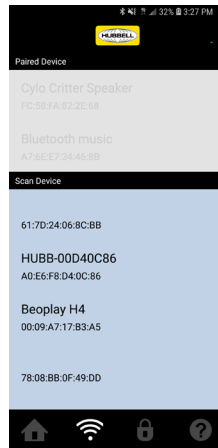
Tip: Bluetooth signal exits the fixture through the glass lens. The signal cannot travel through the brass housing. For best results, be sure your device is in the line of sight of the LED's.



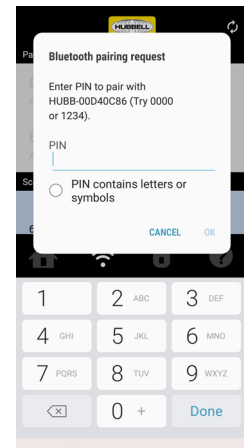
Step 1 – Download App.



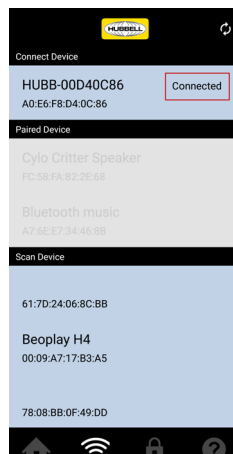
Step 3 – Turn on Bluetooth.



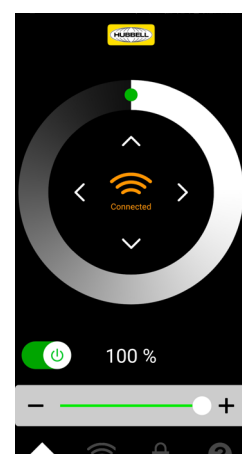
Steps 6 & 7 – Scan and select device.



Step 8 – Enter PIN kimltg or 546584.



Step 9 – Fixture will indicate connected



Steps 10 & 11 – Use the arrows to adjust tilt. Use the slider bar to adjust brightness.

KIM REMOTE - Troubleshooting

Trouble pairing device and KIM REMOTE with fixture.

1. When pairing initially, stand as close as possible to the fixture.
2. Power down fixture for 15 seconds and power back on.
3. Pair one device at a time.
4. Close app. To do this on an Android device go to Settings > Applications (or Applications Manager) > Downloaded > KIM REMOTE > Force Stop. To do this on an Apple device (iOS 7): Push home button twice, find KIM REMOTE app, hold the app icon and swipe up. To do this on an Apple device (iOS 6): Push home button twice, find KIM REMOTE app, tap the X to close.
5. We recommend using one type of bluetooth device (apple or android) when pairing.
When pairing multiple types of devices with the same fixture, power down the fixture for 15 seconds before switching devices.
6. A phone case/cover may interfere with the Bluetooth signal. Removing your case can significantly improve connectivity.

Why did my dimming settings change?

The advanced electronics inside the LTV8 are designed to retain your settings for both dimming and aiming.

Note: Each time you **connect** to the fixture with the KIM REMOTE app, dimming settings are automatically reset to 100%. Please follow the following steps.

1. Power on fixture.
2. Pair and **Connect** device.
3. Aim and set dimming.
4. **Disconnect** the device. (This will store your settings in memory)
5. Once settings are stored the fixture does not require power to retain settings.

NOTE:

The LTV8x has a unique feature that "saves" the last state colored light output commanded of it. The command can come via Bluetooth App, or DMX, so that the next time the unit is powered on, it will output that saved value. In order for this feature to work, after making your changes on either Bluetooth or DMX, do not make any changes to the state for at least 5 seconds before disconnecting the Bluetooth app, removing the DMX signal, or powering down the LTV8x unit. This delay is necessary for the LTV8x to detect that no changes are happening, and it is safe to log the last state to memory.

For warranty see <http://www.hubbelllighting.com/resources/warranty>



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APPENDIX B

Wage Rates

Washington State Prevailing Wage Rates

State of Washington
Department of Labor & Industries
Prevailing Wage Section - Telephone 360-902-5335
PO Box 44540, Olympia, WA 98504-4540

Washington State Prevailing Wage

The PREVAILING WAGES listed here include both the hourly wage rate and the hourly rate of fringe benefits. On public works projects, worker's wage and benefit rates must add to not less than this total. A brief description of overtime calculation requirements are provided on the Benefit Code Key.

Journey Level Prevailing Wage Rates for the Effective Date: 5/9/2022

<u>County</u>	<u>Trade</u>	<u>Job Classification</u>	<u>Wage</u>	<u>Holiday</u>	<u>Overtime</u>	<u>Note</u>	<u>*Risk Class</u>
Skagit	Asbestos Abatement Workers	Journey Level	\$54.62	<u>5D</u>	<u>1H</u>		View
Skagit	Boilermakers	Journey Level	\$72.54	<u>5N</u>	<u>1C</u>		View
Skagit	Brick Mason	Journey Level	\$63.32	<u>7E</u>	<u>1N</u>		View
Skagit	Brick Mason	Pointer-Caulker-Cleaner	\$63.32	<u>7E</u>	<u>1N</u>		View
Skagit	Building Service Employees	Janitor	\$14.49		<u>1</u>		View
Skagit	Building Service Employees	Shampooer	\$14.49		<u>1</u>		View
Skagit	Building Service Employees	Waxer	\$14.49		<u>1</u>		View
Skagit	Building Service Employees	Window Cleaner	\$14.49		<u>1</u>		View
Skagit	Cabinet Makers (In Shop)	Journey Level	\$18.85		<u>1</u>		View
Skagit	Carpenters	Acoustical Worker	\$68.19	<u>15J</u>	<u>4C</u>		View
Skagit	Carpenters	Bridge, Dock And Wharf Carpenters	\$68.19	<u>15J</u>	<u>4C</u>		View
Skagit	Carpenters	Carpenter	\$68.19	<u>15J</u>	<u>4C</u>		View
Skagit	Carpenters	Floor Finisher	\$68.19	<u>15J</u>	<u>4C</u>		View
Skagit	Carpenters	Floor Layer	\$68.19	<u>15J</u>	<u>4C</u>		View
Skagit	Carpenters	Scaffold Erector	\$68.19	<u>15J</u>	<u>4C</u>		View
Skagit	Cement Masons	Application of all Composition Mastic	\$67.41	<u>15J</u>	<u>4U</u>		View
Skagit	Cement Masons	Application of all Epoxy Material	\$66.91	<u>15J</u>	<u>4U</u>		View
Skagit	Cement Masons	Application of all Plastic Material	\$67.41	<u>15J</u>	<u>4U</u>		View
Skagit	Cement Masons	Application of Sealing Compound	\$66.91	<u>15J</u>	<u>4U</u>		View
Skagit	Cement Masons	Application of Underlayment	\$67.41	<u>15J</u>	<u>4U</u>		View
Skagit	Cement Masons	Building General	\$66.91	<u>15J</u>	<u>4U</u>		View
Skagit	Cement Masons	Composition or Kalman Floors	\$67.41	<u>15J</u>	<u>4U</u>		View
Skagit	Cement Masons	Concrete Paving	\$66.91	<u>15J</u>	<u>4U</u>		View
Skagit	Cement Masons	Curb & Gutter Machine	\$67.41	<u>15J</u>	<u>4U</u>		View
Skagit	Cement Masons	Curb & Gutter, Sidewalks	\$66.91	<u>15J</u>	<u>4U</u>		View
Skagit	Cement Masons	Curing Concrete	\$66.91	<u>15J</u>	<u>4U</u>		View

Skagit	Cement Masons	Finish Colored Concrete	\$67.41	15J	4U		View
Skagit	Cement Masons	Floor Grinding	\$67.41	15J	4U		View
Skagit	Cement Masons	Floor Grinding/Polisher	\$66.91	15J	4U		View
Skagit	Cement Masons	Green Concrete Saw, self-powered	\$67.41	15J	4U		View
Skagit	Cement Masons	Grouting of all Plates	\$66.91	15J	4U		View
Skagit	Cement Masons	Grouting of all Tilt-up Panels	\$66.91	15J	4U		View
Skagit	Cement Masons	Guniting Nozzleman	\$67.41	15J	4U		View
Skagit	Cement Masons	Hand Powered Grinder	\$67.41	15J	4U		View
Skagit	Cement Masons	Journey Level	\$66.91	15J	4U		View
Skagit	Cement Masons	Patching Concrete	\$66.91	15J	4U		View
Skagit	Cement Masons	Pneumatic Power Tools	\$67.41	15J	4U		View
Skagit	Cement Masons	Power Chipping & Brushing	\$67.41	15J	4U		View
Skagit	Cement Masons	Sand Blasting Architectural Finish	\$67.41	15J	4U		View
Skagit	Cement Masons	Screed & Rodding Machine	\$67.41	15J	4U		View
Skagit	Cement Masons	Spackling or Skim Coat Concrete	\$66.91	15J	4U		View
Skagit	Cement Masons	Troweling Machine Operator	\$67.41	15J	4U		View
Skagit	Cement Masons	Troweling Machine Operator on Colored Slabs	\$67.41	15J	4U		View
Skagit	Cement Masons	Tunnel Workers	\$67.41	15J	4U		View
Skagit	Divers & Tenders	Bell/Vehicle or Submersible Operator (Not Under Pressure)	\$122.46	15J	4C		View
Skagit	Divers & Tenders	Diver	\$122.49	15J	4C	8V	View
Skagit	Divers & Tenders	Diver On Standby	\$81.04	15J	4C		View
Skagit	Divers & Tenders	Diver Tender	\$73.60	15J	4C		View
Skagit	Divers & Tenders	Manifold Operator	\$73.60	15J	4C		View
Skagit	Divers & Tenders	Manifold Operator Mixed Gas	\$78.60	15J	4C		View
Skagit	Divers & Tenders	Remote Operated Vehicle Operator/Technician	\$73.60	15J	4C		View
Skagit	Divers & Tenders	Remote Operated Vehicle Tender	\$68.64	15J	4C		View
Skagit	Dredge Workers	Assistant Engineer	\$73.62	5D	3F		View
Skagit	Dredge Workers	Assistant Mate (Deckhand)	\$73.05	5D	3F		View
Skagit	Dredge Workers	Boatmen	\$73.62	5D	3F		View
Skagit	Dredge Workers	Engineer Welder	\$75.03	5D	3F		View
Skagit	Dredge Workers	Leverman, Hydraulic	\$76.53	5D	3F		View
Skagit	Dredge Workers	Mates	\$73.62	5D	3F		View
Skagit	Dredge Workers	Oiler	\$73.05	5D	3F		View
Skagit	Drywall Applicator	Journey Level	\$68.19	15J	4C		View
Skagit	Drywall Tapers	Journey Level	\$67.91	5P	1E		View
Skagit	Electrical Fixture Maintenance Workers	Journey Level	\$21.48		1		View
Skagit	Electricians - Inside	Cable Splicer	\$83.25	7H	1E		View
Skagit	Electricians - Inside	Construction Stock Person	\$40.04	7H	1D		View
Skagit	Electricians - Inside	Journey Level	\$77.98	7H	1E		View
Skagit	Electricians - Motor Shop	Craftsman	\$15.37		1		View

Skagit	Electricians - Motor Shop	Journey Level	\$14.69		<u>1</u>		View
Skagit	Electricians - Powerline Construction	Cable Splicer	\$88.89	<u>5A</u>	<u>4D</u>		View
Skagit	Electricians - Powerline Construction	Certified Line Welder	\$81.65	<u>5A</u>	<u>4D</u>		View
Skagit	Electricians - Powerline Construction	Groundperson	\$52.91	<u>5A</u>	<u>4D</u>		View
Skagit	Electricians - Powerline Construction	Heavy Line Equipment Operator	\$81.65	<u>5A</u>	<u>4D</u>		View
Skagit	Electricians - Powerline Construction	Journey Level Lineperson	\$81.65	<u>5A</u>	<u>4D</u>		View
Skagit	Electricians - Powerline Construction	Line Equipment Operator	\$70.02	<u>5A</u>	<u>4D</u>		View
Skagit	Electricians - Powerline Construction	Meter Installer	\$52.91	<u>5A</u>	<u>4D</u>	<u>8W</u>	View
Skagit	Electricians - Powerline Construction	Pole Sprayer	\$81.65	<u>5A</u>	<u>4D</u>		View
Skagit	Electricians - Powerline Construction	Powderperson	\$60.75	<u>5A</u>	<u>4D</u>		View
Skagit	Electronic Technicians	Electronic Technicians Journey Level	\$49.41	<u>5B</u>	<u>1B</u>		View
Skagit	Elevator Constructors	Mechanic	\$103.81	<u>7D</u>	<u>4A</u>		View
Skagit	Elevator Constructors	Mechanic In Charge	\$112.09	<u>7D</u>	<u>4A</u>		View
Skagit	Fabricated Precast Concrete Products	Journey Level	\$14.49		<u>1</u>		View
Skagit	Fabricated Precast Concrete Products	Journey Level - In-Factory Work Only	\$14.49		<u>1</u>		View
Skagit	Fence Erectors	Fence Erector	\$46.29	<u>15J</u>	<u>4V</u>	<u>8Y</u>	View
Skagit	Fence Erectors	Fence Laborer	\$46.29	<u>15J</u>	<u>4V</u>	<u>8Y</u>	View
Skagit	Flaggers	Journey Level	\$46.29	<u>15J</u>	<u>4V</u>	<u>8Y</u>	View
Skagit	Glaziers	Journey Level	\$72.41	<u>7L</u>	<u>1Y</u>		View
Skagit	Heat & Frost Insulators And Asbestos Workers	Journey Level	\$82.02	<u>15H</u>	<u>11C</u>		View
Skagit	Heating Equipment Mechanics	Mechanic	\$85.05	<u>7F</u>	<u>1E</u>		View
Skagit	Hod Carriers & Mason Tenders	Journey Level	\$57.31	<u>15J</u>	<u>4V</u>	<u>8Y</u>	View
Skagit	Industrial Power Vacuum Cleaner	Journey Level	\$14.49		<u>1</u>		View
Skagit	Inland Boatmen	Boat Operator	\$61.41	<u>5B</u>	<u>1K</u>		View
Skagit	Inland Boatmen	Cook	\$56.48	<u>5B</u>	<u>1K</u>		View
Skagit	Inland Boatmen	Deckhand	\$57.48	<u>5B</u>	<u>1K</u>		View
Skagit	Inland Boatmen	Deckhand Engineer	\$58.81	<u>5B</u>	<u>1K</u>		View
Skagit	Inland Boatmen	Launch Operator	\$58.89	<u>5B</u>	<u>1K</u>		View
Skagit	Inland Boatmen	Mate	\$57.31	<u>5B</u>	<u>1K</u>		View
Skagit	Inspection/Cleaning/Sealing Of Sewer & Water Systems By Remote Control	Cleaner Operator, Foamer Operator	\$14.49		<u>1</u>		View
Skagit	Inspection/Cleaning/Sealing Of Sewer & Water Systems By Remote Control	Grout Truck Operator	\$14.49		<u>1</u>		View
Skagit	Inspection/Cleaning/Sealing Of Sewer & Water Systems By	Head Operator	\$14.49		<u>1</u>		View

	Remote Control						
Skagit	Inspection/Cleaning/Sealing Of Sewer & Water Systems By Remote Control	Technician	\$14.49		1		View
Skagit	Inspection/Cleaning/Sealing Of Sewer & Water Systems By Remote Control	Tv Truck Operator	\$14.49		1		View
Skagit	Insulation Applicators	Journey Level	\$68.19	15J	4C		View
Skagit	Ironworkers	Journeyman	\$80.28	7N	10		View
Skagit	Laborers	Air, Gas Or Electric Vibrating Screed	\$54.62	15J	4V	8Y	View
Skagit	Laborers	Airtrac Drill Operator	\$56.31	15J	4V	8Y	View
Skagit	Laborers	Ballast Regular Machine	\$54.62	15J	4V	8Y	View
Skagit	Laborers	Batch Weighman	\$46.29	15J	4V	8Y	View
Skagit	Laborers	Brick Pavers	\$54.62	15J	4V	8Y	View
Skagit	Laborers	Brush Cutter	\$54.62	15J	4V	8Y	View
Skagit	Laborers	Brush Hog Feeder	\$54.62	15J	4V	8Y	View
Skagit	Laborers	Burner	\$54.62	15J	4V	8Y	View
Skagit	Laborers	Caisson Worker	\$56.31	15J	4V	8Y	View
Skagit	Laborers	Carpenter Tender	\$54.62	15J	4V	8Y	View
Skagit	Laborers	Cement Dumper-paving	\$55.62	15J	4V	8Y	View
Skagit	Laborers	Cement Finisher Tender	\$54.62	15J	4V	8Y	View
Skagit	Laborers	Change House Or Dry Shack	\$54.62	15J	4V	8Y	View
Skagit	Laborers	Chipping Gun (30 Lbs. And Over)	\$55.62	15J	4V	8Y	View
Skagit	Laborers	Chipping Gun (Under 30 Lbs.)	\$54.62	15J	4V	8Y	View
Skagit	Laborers	Choker Setter	\$54.62	15J	4V	8Y	View
Skagit	Laborers	Chuck Tender	\$54.62	15J	4V	8Y	View
Skagit	Laborers	Clary Power Spreader	\$55.62	15J	4V	8Y	View
Skagit	Laborers	Clean-up Laborer	\$54.62	15J	4V	8Y	View
Skagit	Laborers	Concrete Dumper/Chute Operator	\$55.62	15J	4V	8Y	View
Skagit	Laborers	Concrete Form Stripper	\$54.62	15J	4V	8Y	View
Skagit	Laborers	Concrete Placement Crew	\$55.62	15J	4V	8Y	View
Skagit	Laborers	Concrete Saw Operator/Core Driller	\$55.62	15J	4V	8Y	View
Skagit	Laborers	Crusher Feeder	\$46.29	15J	4V	8Y	View
Skagit	Laborers	Curing Laborer	\$54.62	15J	4V	8Y	View
Skagit	Laborers	Demolition: Wrecking & Moving (Incl. Charred Material)	\$54.62	15J	4V	8Y	View
Skagit	Laborers	Ditch Digger	\$54.62	15J	4V	8Y	View
Skagit	Laborers	Diver	\$56.31	15J	4V	8Y	View
Skagit	Laborers	Drill Operator (Hydraulic, Diamond)	\$55.62	15J	4V	8Y	View
Skagit	Laborers	Dry Stack Walls	\$54.62	15J	4V	8Y	View
Skagit	Laborers	Dump Person	\$54.62	15J	4V	8Y	View
Skagit	Laborers	Epoxy Technician	\$54.62	15J	4V	8Y	View
Skagit	Laborers	Erosion Control Worker	\$54.62	15J	4V	8Y	View
Skagit	Laborers	Faller & Bucker Chain Saw	\$55.62	15J	4V	8Y	View

Skagit	Laborers	Fine Graders	\$54.62	15J	4V	8Y	View
Skagit	Laborers	Firewatch	\$46.29	15J	4V	8Y	View
Skagit	Laborers	Form Setter	\$54.62	15J	4V	8Y	View
Skagit	Laborers	Gabian Basket Builders	\$54.62	15J	4V	8Y	View
Skagit	Laborers	General Laborer	\$54.62	15J	4V	8Y	View
Skagit	Laborers	Grade Checker & Transit Person	\$57.31	15J	4V	8Y	View
Skagit	Laborers	Grinders	\$54.62	15J	4V	8Y	View
Skagit	Laborers	Grout Machine Tender	\$54.62	15J	4V	8Y	View
Skagit	Laborers	Groutmen (Pressure) Including Post Tension Beams	\$55.62	15J	4V	8Y	View
Skagit	Laborers	Guardrail Erector	\$54.62	15J	4V	8Y	View
Skagit	Laborers	Hazardous Waste Worker (Level A)	\$56.31	15J	4V	8Y	View
Skagit	Laborers	Hazardous Waste Worker (Level B)	\$55.62	15J	4V	8Y	View
Skagit	Laborers	Hazardous Waste Worker (Level C)	\$54.62	15J	4V	8Y	View
Skagit	Laborers	High Scaler	\$56.31	15J	4V	8Y	View
Skagit	Laborers	Jackhammer	\$55.62	15J	4V	8Y	View
Skagit	Laborers	Laserbeam Operator	\$55.62	15J	4V	8Y	View
Skagit	Laborers	Maintenance Person	\$54.62	15J	4V	8Y	View
Skagit	Laborers	Manhole Builder-Mudman	\$55.62	15J	4V	8Y	View
Skagit	Laborers	Material Yard Person	\$54.62	15J	4V	8Y	View
Skagit	Laborers	Motorman-Dinky Locomotive	\$55.62	15J	4V	8Y	View
Skagit	Laborers	nozzleman (concrete pump, green cutter when using combination of high pressure air & water on concrete & rock, sandblast, gunite, shotcrete, water blaster, vacuum blaster)	\$57.31	15J	4V	8Y	View
Skagit	Laborers	Pavement Breaker	\$55.62	15J	4V	8Y	View
Skagit	Laborers	Pilot Car	\$46.29	15J	4V	8Y	View
Skagit	Laborers	Pipe Layer (Lead)	\$57.31	15J	4V	8Y	View
Skagit	Laborers	Pipe Layer/Tailor	\$55.62	15J	4V	8Y	View
Skagit	Laborers	Pipe Pot Tender	\$55.62	15J	4V	8Y	View
Skagit	Laborers	Pipe Reliner	\$55.62	15J	4V	8Y	View
Skagit	Laborers	Pipe Wrapper	\$55.62	15J	4V	8Y	View
Skagit	Laborers	Pot Tender	\$54.62	15J	4V	8Y	View
Skagit	Laborers	Powderman	\$56.31	15J	4V	8Y	View
Skagit	Laborers	Powderman's Helper	\$54.62	15J	4V	8Y	View
Skagit	Laborers	Power Jacks	\$55.62	15J	4V	8Y	View
Skagit	Laborers	Railroad Spike Puller - Power	\$55.62	15J	4V	8Y	View
Skagit	Laborers	Raker - Asphalt	\$57.31	15J	4V	8Y	View
Skagit	Laborers	Re-timberman	\$56.31	15J	4V	8Y	View
Skagit	Laborers	Remote Equipment Operator	\$55.62	15J	4V	8Y	View
Skagit	Laborers	Rigger/Signal Person	\$55.62	15J	4V	8Y	View
Skagit	Laborers	Rip Rap Person	\$54.62	15J	4V	8Y	View
Skagit	Laborers	Rivet Buster	\$55.62	15J	4V	8Y	View

Skagit	Laborers	Rodder	\$55.62	15J	4V	8Y	View
Skagit	Laborers	Scaffold Erector	\$54.62	15J	4V	8Y	View
Skagit	Laborers	Scale Person	\$54.62	15J	4V	8Y	View
Skagit	Laborers	Sloper (Over 20")	\$55.62	15J	4V	8Y	View
Skagit	Laborers	Sloper Sprayer	\$54.62	15J	4V	8Y	View
Skagit	Laborers	Spreader (Concrete)	\$55.62	15J	4V	8Y	View
Skagit	Laborers	Stake Hopper	\$54.62	15J	4V	8Y	View
Skagit	Laborers	Stock Piler	\$54.62	15J	4V	8Y	View
Skagit	Laborers	Swinging Stage/Boatswain Chair	\$46.29	15J	4V	8Y	View
Skagit	Laborers	Tamper & Similar Electric, Air & Gas Operated Tools	\$55.62	15J	4V	8Y	View
Skagit	Laborers	Tamper (Multiple & Self-propelled)	\$55.62	15J	4V	8Y	View
Skagit	Laborers	Timber Person - Sewer (Lagger, Shorer & Cribber)	\$55.62	15J	4V	8Y	View
Skagit	Laborers	Toolroom Person (at Jobsite)	\$54.62	15J	4V	8Y	View
Skagit	Laborers	Topper	\$54.62	15J	4V	8Y	View
Skagit	Laborers	Track Laborer	\$54.62	15J	4V	8Y	View
Skagit	Laborers	Track Liner (Power)	\$55.62	15J	4V	8Y	View
Skagit	Laborers	Traffic Control Laborer	\$49.50	15J	4V	9C	View
Skagit	Laborers	Traffic Control Supervisor	\$52.45	15J	4V	9C	View
Skagit	Laborers	Truck Spotter	\$54.62	15J	4V	8Y	View
Skagit	Laborers	Tugger Operator	\$55.62	15J	4V	8Y	View
Skagit	Laborers	Tunnel Work-Compressed Air Worker 0-30 psi	\$142.82	15J	4V	9B	View
Skagit	Laborers	Tunnel Work-Compressed Air Worker 30.01-44.00 psi	\$147.85	15J	4V	9B	View
Skagit	Laborers	Tunnel Work-Compressed Air Worker 44.01-54.00 psi	\$151.53	15J	4V	9B	View
Skagit	Laborers	Tunnel Work-Compressed Air Worker 54.01-60.00 psi	\$157.23	15J	4V	9B	View
Skagit	Laborers	Tunnel Work-Compressed Air Worker 60.01-64.00 psi	\$159.35	15J	4V	9B	View
Skagit	Laborers	Tunnel Work-Compressed Air Worker 64.01-68.00 psi	\$164.45	15J	4V	9B	View
Skagit	Laborers	Tunnel Work-Compressed Air Worker 68.01-70.00 psi	\$166.35	15J	4V	9B	View
Skagit	Laborers	Tunnel Work-Compressed Air Worker 70.01-72.00 psi	\$168.35	15J	4V	9B	View
Skagit	Laborers	Tunnel Work-Compressed Air Worker 72.01-74.00 psi	\$170.35	15J	4V	9B	View
Skagit	Laborers	Tunnel Work-Guage and Lock Tender	\$57.41	15J	4V	8Y	View
Skagit	Laborers	Tunnel Work-Miner	\$57.41	15J	4V	8Y	View
Skagit	Laborers	Tunnel Work-Miner	\$57.41	7A	4V	8Y	View
Skagit	Laborers	Vibrator	\$55.62	15J	4V	8Y	View
Skagit	Laborers	Vinyl Seamer	\$54.62	15J	4V	8Y	View
Skagit	Laborers	Watchman	\$42.08	15J	4V	8Y	View
Skagit	Laborers	Welder	\$55.62	15J	4V	8Y	View

Skagit	Laborers	Well Point Laborer	\$55.62	15J	4V	8Y	View
Skagit	Laborers	Window Washer/Cleaner	\$42.08	15J	4V	8Y	View
Skagit	Laborers - Underground Sewer & Water	General Laborer & Topman	\$54.62	15J	4V	8Y	View
Skagit	Laborers - Underground Sewer & Water	Pipe Layer	\$55.62	15J	4V	8Y	View
Skagit	Landscape Construction	Landscape Construction/Landscaping Or Planting Laborers	\$42.08	15J	4V	8Y	View
Skagit	Landscape Construction	Landscape Operator	\$75.50	15J	11G	8X	View
Skagit	Landscape Maintenance	Groundskeeper	\$14.49		1		View
Skagit	Lathers	Journey Level	\$68.19	15J	4C		View
Skagit	Marble Setters	Journey Level	\$63.32	7E	1N		View
Skagit	Metal Fabrication (In Shop)	Fitter	\$15.16		1		View
Skagit	Metal Fabrication (In Shop)	Laborer	\$14.49		1		View
Skagit	Metal Fabrication (In Shop)	Machine Operator	\$14.49		1		View
Skagit	Metal Fabrication (In Shop)	Painter	\$14.49		1		View
Skagit	Metal Fabrication (In Shop)	Welder	\$15.16		1		View
Skagit	Millwright	Journey Level	\$69.74	15J	4C		View
Skagit	Modular Buildings	Journey Level	\$14.49		1		View
Skagit	Painters	Journey Level	\$47.70	6Z	2B		View
Skagit	Pile Driver	Crew Tender	\$62.69	15J	4C		View
Skagit	Pile Driver	Crew Tender/Technician	\$62.69	15J	4C		View
Skagit	Pile Driver	Hyperbaric Worker - Compressed Air Worker 0-30.00 PSI	\$85.00	15J	4C		View
Skagit	Pile Driver	Hyperbaric Worker - Compressed Air Worker 30.01 - 44.00 PSI	\$90.00	15J	4C		View
Skagit	Pile Driver	Hyperbaric Worker - Compressed Air Worker 44.01 - 54.00 PSI	\$94.00	15J	4C		View
Skagit	Pile Driver	Hyperbaric Worker - Compressed Air Worker 64.01 - 68.00 PSI	\$106.50	15J	4C		View
Skagit	Pile Driver	Hyperbaric Worker - Compressed Air Worker 68.01 - 70.00 PSI	\$108.50	15J	4C		View
Skagit	Pile Driver	Hyperbaric Worker - Compressed Air Worker 70.01 - 72.00 PSI	\$110.50	15J	4C		View
Skagit	Pile Driver	Hyperbaric Worker - Compressed Air Worker 72.01 - 74.00 PSI	\$112.50	15J	4C		View
Skagit	Pile Driver	Journey Level	\$68.64	15J	4C		View
Skagit	Plasterers	Journey Level	\$64.14	7Q	1R		View
Skagit	Plasterers	Nozzleman	\$67.64	7Q	1R		View
Skagit	Playground & Park Equipment Installers	Journey Level	\$14.49		1		View
Skagit	Plumbers & Pipefitters	Journey Level	\$82.22	5A	1G		View
Skagit	Power Equipment Operators	Asphalt Plant Operators	\$76.77	15J	11G	8X	View

Skagit	Power Equipment Operators	Assistant Engineer	\$72.20	15J	11G	8X	View
Skagit	Power Equipment Operators	Barrier Machine (zipper)	\$76.09	15J	11G	8X	View
Skagit	Power Equipment Operators	Batch Plant Operator: concrete	\$76.09	15J	11G	8X	View
Skagit	Power Equipment Operators	Boat Operator	\$76.87	7A	11H	8X	View
Skagit	Power Equipment Operators	Bobcat	\$72.20	15J	11G	8X	View
Skagit	Power Equipment Operators	Brokk - Remote Demolition Equipment	\$72.20	15J	11G	8X	View
Skagit	Power Equipment Operators	Brooms	\$72.20	15J	11G	8X	View
Skagit	Power Equipment Operators	Bump Cutter	\$76.09	15J	11G	8X	View
Skagit	Power Equipment Operators	Cableways	\$76.77	15J	11G	8X	View
Skagit	Power Equipment Operators	Chipper	\$76.09	15J	11G	8X	View
Skagit	Power Equipment Operators	Compressor	\$72.20	15J	11G	8X	View
Skagit	Power Equipment Operators	Concrete Finish Machine - Laser Screed	\$72.20	15J	11G	8X	View
Skagit	Power Equipment Operators	Concrete Pump - Mounted Or Trailer High Pressure Line Pump, Pump High Pressure	\$75.50	15J	11G	8X	View
Skagit	Power Equipment Operators	Concrete Pump: Truck Mount With Boom Attachment Over 42 M	\$76.77	15J	11G	8X	View
Skagit	Power Equipment Operators	Concrete Pump: Truck Mount With Boom Attachment Up To 42m	\$76.09	15J	11G	8X	View
Skagit	Power Equipment Operators	Conveyors	\$75.50	15J	11G	8X	View
Skagit	Power Equipment Operators	Cranes Friction: 200 tons and over	\$79.20	7A	11H	8X	View
Skagit	Power Equipment Operators	Cranes, A-frame: 10 tons and under	\$72.30	7A	11H	8X	View
Skagit	Power Equipment Operators	Cranes: 100 tons through 199 tons, or 150' of boom (including jib with attachments)	\$77.63	7A	11H	8X	View
Skagit	Power Equipment Operators	Cranes: 20 tons through 44 tons with attachments	\$76.19	7A	11H	8X	View
Skagit	Power Equipment Operators	Cranes: 200 tons- 299 tons, or 250' of boom including jib with attachments	\$78.44	7A	11H	8X	View
Skagit	Power Equipment Operators	Cranes: 300 tons and over or 300' of boom including jib with attachments	\$79.20	7A	11H	8X	View
Skagit	Power Equipment Operators	Cranes: 45 tons through 99 tons, under 150' of boom(including jib with attachments)	\$76.87	7A	11H	8X	View
Skagit	Power Equipment Operators	Cranes: Friction cranes through 199 tons	\$78.44	7A	11H	8X	View
Skagit	Power Equipment Operators	Cranes: through 19 tons with attachments, a-frame over 10 tons	\$75.60	7A	11H	8X	View
Skagit	Power Equipment Operators	Crusher	\$76.09	15J	11G	8X	View
Skagit	Power Equipment Operators	Deck Engineer/Deck Winches (power)	\$76.09	15J	11G	8X	View

Skagit	Power Equipment Operators	Derricks, On Building Work	\$76.77	15J	11G	8X	View
Skagit	Power Equipment Operators	Dozers D-9 & Under	\$75.50	15J	11G	8X	View
Skagit	Power Equipment Operators	Drill Oilers: Auger Type, Truck Or Crane Mount	\$75.50	15J	11G	8X	View
Skagit	Power Equipment Operators	Drilling Machine	\$77.53	15J	11G	8X	View
Skagit	Power Equipment Operators	Elevator and man-lift: permanent and shaft type	\$72.20	15J	11G	8X	View
Skagit	Power Equipment Operators	Finishing Machine, Bidwell And Gamaco & Similar Equipment	\$76.09	15J	11G	8X	View
Skagit	Power Equipment Operators	Forklift: 3000 lbs and over with attachments	\$75.50	15J	11G	8X	View
Skagit	Power Equipment Operators	Grade Engineer: Using Blue Prints, Cut Sheets, Etc	\$76.09	15J	11G	8X	View
Skagit	Power Equipment Operators	Gradechecker/Stakeman	\$72.20	15J	11G	8X	View
Skagit	Power Equipment Operators	Guardrail Punch	\$76.09	15J	11G	8X	View
Skagit	Power Equipment Operators	Hard Tail End Dump Articulating Off- Road Equipment 45 Yards. & Over	\$76.77	15J	11G	8X	View
Skagit	Power Equipment Operators	Hard Tail End Dump Articulating Off-road Equipment Under 45 Yards	\$76.09	15J	11G	8X	View
Skagit	Power Equipment Operators	Horizontal/Directional Drill Locator	\$75.50	15J	11G	8X	View
Skagit	Power Equipment Operators	Horizontal/Directional Drill Operator	\$76.09	15J	11G	8X	View
Skagit	Power Equipment Operators	Hydralifts/Boom Trucks Over 10 Tons	\$75.60	7A	11H	8X	View
Skagit	Power Equipment Operators	Hydralifts/boom trucks: 10 tons and under	\$72.30	7A	11H	8X	View
Skagit	Power Equipment Operators	Leverman	\$78.33	15J	11G	8X	View
Skagit	Power Equipment Operators	Loader, Overhead, 6 Yards. But Not Including 8 Yards	\$76.77	15J	11G	8X	View
Skagit	Power Equipment Operators	Loaders, Overhead Under 6 Yards	\$76.09	15J	11G	8X	View
Skagit	Power Equipment Operators	Loaders, Plant Feed	\$76.09	15J	11G	8X	View
Skagit	Power Equipment Operators	Loaders: Elevating Type Belt	\$75.50	15J	11G	8X	View
Skagit	Power Equipment Operators	Locomotives, All	\$76.09	15J	11G	8X	View
Skagit	Power Equipment Operators	Material Transfer Device	\$76.09	15J	11G	8X	View
Skagit	Power Equipment Operators	Mechanics: All (Leadmen - \$0.50 per hour over mechanic)	\$77.53	15J	11G	8X	View
Skagit	Power Equipment Operators	Motor Patrol Graders	\$76.77	15J	11G	8X	View
Skagit	Power Equipment Operators	Mucking Machine, Mole, Tunnel Drill, Boring, Road Header And/or Shield	\$76.77	15J	11G	8X	View
Skagit	Power Equipment Operators	Oil Distributors, Blower Distribution & Mulch Seeding Operator	\$72.20	15J	11G	8X	View
Skagit	Power Equipment Operators	Outside Hoists (Elevators and Manlifts), Air Tuggers, Strato	\$75.50	15J	11G	8X	View
Skagit	Power Equipment Operators	Overhead, bridge type: 100 tons and over	\$77.63	7A	11H	8X	View
Skagit	Power Equipment Operators	Overhead, bridge type: 45 tons	\$76.87	7A	11H	8X	View

		through 99 tons					
Skagit	Power Equipment Operators	Pavement Breaker	\$72.20	15J	11G	8X	View
Skagit	Power Equipment Operators	Pile Driver (other Than Crane Mount)	\$76.09	15J	11G	8X	View
Skagit	Power Equipment Operators	Plant Oiler - Asphalt, Crusher	\$75.50	15J	11G	8X	View
Skagit	Power Equipment Operators	Posthole Digger, Mechanical	\$72.20	15J	11G	8X	View
Skagit	Power Equipment Operators	Power Plant	\$72.20	15J	11G	8X	View
Skagit	Power Equipment Operators	Pumps - Water	\$72.20	15J	11G	8X	View
Skagit	Power Equipment Operators	Quad 9, Hd 41, D10 And Over	\$76.77	15J	11G	8X	View
Skagit	Power Equipment Operators	Remote Control Operator On Rubber Tired Earth Moving Equipment	\$76.77	15J	11G	8X	View
Skagit	Power Equipment Operators	Rigger and Bellman	\$72.30	7A	11H	8X	View
Skagit	Power Equipment Operators	Rigger/Signal Person, Bellman(Certified)	\$75.60	7A	11H	8X	View
Skagit	Power Equipment Operators	Rollagon	\$76.77	15J	11G	8X	View
Skagit	Power Equipment Operators	Roller, Other Than Plant Mix	\$72.20	15J	11G	8X	View
Skagit	Power Equipment Operators	Roller, Plant Mix Or Multi-lift Materials	\$75.50	15J	11G	8X	View
Skagit	Power Equipment Operators	Roto-mill, Roto-grinder	\$76.09	15J	11G	8X	View
Skagit	Power Equipment Operators	Saws - Concrete	\$75.50	15J	11G	8X	View
Skagit	Power Equipment Operators	Scraper, Self Propelled Under 45 Yards	\$76.09	15J	11G	8X	View
Skagit	Power Equipment Operators	Scrapers - Concrete & Carry All	\$75.50	15J	11G	8X	View
Skagit	Power Equipment Operators	Scrapers, Self-propelled: 45 Yards And Over	\$76.77	15J	11G	8X	View
Skagit	Power Equipment Operators	Service Engineers: Equipment	\$75.50	15J	11G	8X	View
Skagit	Power Equipment Operators	Shotcrete/Gunite Equipment	\$72.20	15J	11G	8X	View
Skagit	Power Equipment Operators	Shovel, Excavator, Backhoe, Tractors Under 15 Metric Tons	\$75.50	15J	11G	8X	View
Skagit	Power Equipment Operators	Shovel, Excavator, Backhoe: Over 30 Metric Tons To 50 Metric Tons	\$76.77	15J	11G	8X	View
Skagit	Power Equipment Operators	Shovel, Excavator, Backhoes, Tractors: 15 To 30 Metric Tons	\$76.09	15J	11G	8X	View
Skagit	Power Equipment Operators	Shovel, Excavator, Backhoes: Over 50 Metric Tons To 90 Metric Tons	\$77.53	15J	11G	8X	View
Skagit	Power Equipment Operators	Shovel, Excavator, Backhoes: Over 90 Metric Tons	\$78.33	15J	11G	8X	View
Skagit	Power Equipment Operators	Slipform Pavers	\$76.77	15J	11G	8X	View
Skagit	Power Equipment Operators	Spreader, Topsider & Screedman	\$76.77	15J	11G	8X	View
Skagit	Power Equipment Operators	Subgrader Trimmer	\$76.09	15J	11G	8X	View
Skagit	Power Equipment Operators	Tower Bucket Elevators	\$75.50	15J	11G	8X	View
Skagit	Power Equipment Operators	Tower Crane: over 175' through 250' in height, base to boom	\$78.44	7A	11H	8X	View
Skagit	Power Equipment Operators	Tower crane: up to 175' in height base to boom	\$77.63	7A	11H	8X	View
Skagit	Power Equipment Operators	Tower Cranes: over 250' in height from base to boom	\$79.20	7A	11H	8X	View

Skagit	Power Equipment Operators	Transporters, All Track Or Truck Type	\$76.77	15J	11G	8X	View
Skagit	Power Equipment Operators	Trenching Machines	\$75.50	15J	11G	8X	View
Skagit	Power Equipment Operators	Truck crane oiler/driver: under 100 tons	\$75.60	7A	11H	8X	View
Skagit	Power Equipment Operators	Truck Mount Portable Conveyor	\$76.09	15J	11G	8X	View
Skagit	Power Equipment Operators	Welder	\$76.77	15J	11G	8X	View
Skagit	Power Equipment Operators	Wheel Tractors, Farmall Type	\$72.20	15J	11G	8X	View
Skagit	Power Equipment Operators	Yo Yo Pay Dozer	\$76.09	15J	11G	8X	View
Skagit	Power Equipment Operators-Underground Sewer & Water	Asphalt Plant Operators	\$76.77	15J	11G	8X	View
Skagit	Power Equipment Operators-Underground Sewer & Water	Assistant Engineer	\$72.20	15J	11G	8X	View
Skagit	Power Equipment Operators-Underground Sewer & Water	Barrier Machine (zipper)	\$76.09	15J	11G	8X	View
Skagit	Power Equipment Operators-Underground Sewer & Water	Batch Plant Operator, Concrete	\$76.09	15J	11G	8X	View
Skagit	Power Equipment Operators-Underground Sewer & Water	Boat Operator	\$76.87	7A	11H	8X	View
Skagit	Power Equipment Operators-Underground Sewer & Water	Bobcat	\$72.20	15J	11G	8X	View
Skagit	Power Equipment Operators-Underground Sewer & Water	Brokk - Remote Demolition Equipment	\$72.20	15J	11G	8X	View
Skagit	Power Equipment Operators-Underground Sewer & Water	Brooms	\$72.20	15J	11G	8X	View
Skagit	Power Equipment Operators-Underground Sewer & Water	Bump Cutter	\$76.09	15J	11G	8X	View
Skagit	Power Equipment Operators-Underground Sewer & Water	Cableways	\$76.77	15J	11G	8X	View
Skagit	Power Equipment Operators-Underground Sewer & Water	Chipper	\$76.09	15J	11G	8X	View
Skagit	Power Equipment Operators-Underground Sewer & Water	Compressor	\$72.20	15J	11G	8X	View
Skagit	Power Equipment Operators-Underground Sewer & Water	Concrete Finish Machine - Laser Screed	\$72.20	15J	11G	8X	View
Skagit	Power Equipment Operators-Underground Sewer & Water	Concrete Pump - Mounted Or Trailer High Pressure Line Pump, Pump High Pressure	\$75.50	15J	11G	8X	View
Skagit	Power Equipment Operators-Underground Sewer & Water	Concrete Pump: Truck Mount With Boom Attachment Over 42 M	\$76.77	15J	11G	8X	View
Skagit	Power Equipment Operators-Underground Sewer & Water	Concrete Pump: Truck Mount With Boom Attachment Up To 42m	\$76.09	15J	11G	8X	View
Skagit	Power Equipment Operators-Underground Sewer & Water	Conveyors	\$75.50	15J	11G	8X	View
Skagit	Power Equipment Operators-Underground Sewer & Water	Cranes Friction: 200 tons and over	\$79.20	7A	11H	8X	View
Skagit	Power Equipment Operators-Underground Sewer & Water	Cranes, A-frame: 10 tons and under	\$72.30	7A	11H	8X	View
Skagit	Power Equipment Operators-Underground Sewer & Water	Cranes: 100 tons through 199 tons, or 150' of boom	\$77.63	7A	11H	8X	View

		(including jib with attachments)					
Skagit	Power Equipment Operators-Underground Sewer & Water	Cranes: 20 tons through 44 tons with attachments	\$76.19	7A	11H	8X	View
Skagit	Power Equipment Operators-Underground Sewer & Water	Cranes: 20 tons through 44 tons with attachments	\$76.19	7A	11H	8X	View
Skagit	Power Equipment Operators-Underground Sewer & Water	Cranes: 200 tons- 299 tons, or 250' of boom including jib with attachments	\$78.44	7A	11H	8X	View
Skagit	Power Equipment Operators-Underground Sewer & Water	Cranes: 300 tons and over or 300' of boom including jib with attachments	\$79.20	7A	11H	8X	View
Skagit	Power Equipment Operators-Underground Sewer & Water	Cranes: 45 tons through 99 tons, under 150' of boom(including jib with attachments)	\$76.87	7A	11H	8X	View
Skagit	Power Equipment Operators-Underground Sewer & Water	Cranes: Friction cranes through 199 tons	\$78.44	7A	11H	8X	View
Skagit	Power Equipment Operators-Underground Sewer & Water	Cranes: through 19 tons with attachments, a-frame over 10 tons	\$75.60	7A	11H	8X	View
Skagit	Power Equipment Operators-Underground Sewer & Water	Crusher	\$76.09	15J	11G	8X	View
Skagit	Power Equipment Operators-Underground Sewer & Water	Deck Engineer/Deck Winches (power)	\$76.09	15J	11G	8X	View
Skagit	Power Equipment Operators-Underground Sewer & Water	Derricks, On Building Work	\$76.77	15J	11G	8X	View
Skagit	Power Equipment Operators-Underground Sewer & Water	Dozers D-9 & Under	\$75.50	15J	11G	8X	View
Skagit	Power Equipment Operators-Underground Sewer & Water	Drill Oilers: Auger Type, Truck Or Crane Mount	\$75.50	15J	11G	8X	View
Skagit	Power Equipment Operators-Underground Sewer & Water	Drilling Machine	\$77.53	15J	11G	8X	View
Skagit	Power Equipment Operators-Underground Sewer & Water	Elevator and man-lift: permanent and shaft type	\$72.20	15J	11G	8X	View
Skagit	Power Equipment Operators-Underground Sewer & Water	Finishing Machine, Bidwell And Gamaco & Similar Equipment	\$76.09	15J	11G	8X	View
Skagit	Power Equipment Operators-Underground Sewer & Water	Forklift: 3000 lbs and over with attachments	\$75.50	15J	11G	8X	View
Skagit	Power Equipment Operators-Underground Sewer & Water	Forklifts: under 3000 lbs. with attachments	\$72.20	15J	11G	8X	View
Skagit	Power Equipment Operators-Underground Sewer & Water	Forklifts: under 3000 lbs. with attachments	\$72.20	15J	11G	8X	View
Skagit	Power Equipment Operators-Underground Sewer & Water	Grade Engineer: Using Blue Prints, Cut Sheets, Etc	\$76.09	15J	11G	8X	View
Skagit	Power Equipment Operators-Underground Sewer & Water	Gradechecker/Stakeman	\$72.20	15J	11G	8X	View
Skagit	Power Equipment Operators-Underground Sewer & Water	Guardrail Punch	\$76.09	15J	11G	8X	View
Skagit	Power Equipment Operators-Underground Sewer & Water	Hard Tail End Dump Articulating Off- Road Equipment 45 Yards. & Over	\$76.77	15J	11G	8X	View
Skagit	Power Equipment Operators-Underground Sewer & Water	Hard Tail End Dump Articulating Off-road	\$76.09	15J	11G	8X	View

		Equipment Under 45 Yards					
Skagit	Power Equipment Operators-Underground Sewer & Water	Horizontal/Directional Drill Locator	\$75.50	15J	11G	8X	View
Skagit	Power Equipment Operators-Underground Sewer & Water	Horizontal/Directional Drill Operator	\$76.09	15J	11G	8X	View
Skagit	Power Equipment Operators-Underground Sewer & Water	Hydralifts/boom trucks: 10 tons and under	\$72.30	7A	11H	8X	View
Skagit	Power Equipment Operators-Underground Sewer & Water	Hydralifts/boom trucks: over 10 tons	\$75.60	7A	11H	8X	View
Skagit	Power Equipment Operators-Underground Sewer & Water	Leverman	\$78.33	15J	11G	8X	View
Skagit	Power Equipment Operators-Underground Sewer & Water	Loader, Overhead, 6 Yards. But Not Including 8 Yards	\$76.77	15J	11G	8X	View
Skagit	Power Equipment Operators-Underground Sewer & Water	Loaders, Overhead Under 6 Yards	\$76.09	15J	11G	8X	View
Skagit	Power Equipment Operators-Underground Sewer & Water	Loaders, Plant Feed	\$76.09	15J	11G	8X	View
Skagit	Power Equipment Operators-Underground Sewer & Water	Loaders: Elevating Type Belt	\$75.50	15J	11G	8X	View
Skagit	Power Equipment Operators-Underground Sewer & Water	Locomotives, All	\$76.09	15J	11G	8X	View
Skagit	Power Equipment Operators-Underground Sewer & Water	Material Transfer Device	\$76.09	15J	11G	8X	View
Skagit	Power Equipment Operators-Underground Sewer & Water	Mechanics: All (Leadmen - \$0.50 per hour over mechanic)	\$77.53	15J	11G	8X	View
Skagit	Power Equipment Operators-Underground Sewer & Water	Motor Patrol Graders	\$76.77	15J	11G	8X	View
Skagit	Power Equipment Operators-Underground Sewer & Water	Mucking Machine, Mole, Tunnel Drill, Boring, Road Header And/or Shield	\$76.77	15J	11G	8X	View
Skagit	Power Equipment Operators-Underground Sewer & Water	Oil Distributors, Blower Distribution & Mulch Seeding Operator	\$72.20	15J	11G	8X	View
Skagit	Power Equipment Operators-Underground Sewer & Water	Outside Hoists (Elevators and Manlifts), Air Tuggers, Strato	\$75.50	15J	11G	8X	View
Skagit	Power Equipment Operators-Underground Sewer & Water	Overhead, bridge type: 100 tons and over	\$77.63	7A	11H	8X	View
Skagit	Power Equipment Operators-Underground Sewer & Water	Overhead, bridge type: 45 tons through 99 tons	\$76.87	7A	11H	8X	View
Skagit	Power Equipment Operators-Underground Sewer & Water	Pavement Breaker	\$72.20	15J	11G	8X	View
Skagit	Power Equipment Operators-Underground Sewer & Water	Pile Driver (other Than Crane Mount)	\$76.09	15J	11G	8X	View
Skagit	Power Equipment Operators-Underground Sewer & Water	Plant Oiler - Asphalt, Crusher	\$75.50	15J	11G	8X	View
Skagit	Power Equipment Operators-Underground Sewer & Water	Posthole Digger, Mechanical	\$72.20	15J	11G	8X	View
Skagit	Power Equipment Operators-Underground Sewer & Water	Power Plant	\$72.20	15J	11G	8X	View
Skagit	Power Equipment Operators-Underground Sewer & Water	Pumps - Water	\$72.20	15J	11G	8X	View
Skagit	Power Equipment Operators-Underground Sewer & Water	Quad 9, Hd 41, D10 And Over	\$76.77	15J	11G	8X	View

Skagit	Power Equipment Operators-Underground Sewer & Water	Remote Control Operator On Rubber Tired Earth Moving Equipment	\$76.77	15J	11G	8X	View
Skagit	Power Equipment Operators-Underground Sewer & Water	Rigger and Bellman	\$72.30	7A	11H	8X	View
Skagit	Power Equipment Operators-Underground Sewer & Water	Rigger/Signal Person, Bellman(Certified)	\$75.60	7A	11H	8X	View
Skagit	Power Equipment Operators-Underground Sewer & Water	Rollagon	\$76.77	15J	11G	8X	View
Skagit	Power Equipment Operators-Underground Sewer & Water	Roller, Other Than Plant Mix	\$72.20	15J	11G	8X	View
Skagit	Power Equipment Operators-Underground Sewer & Water	Roller, Plant Mix Or Multi-lift Materials	\$75.50	15J	11G	8X	View
Skagit	Power Equipment Operators-Underground Sewer & Water	Roto-mill, Roto-grinder	\$76.09	15J	11G	8X	View
Skagit	Power Equipment Operators-Underground Sewer & Water	Saws - Concrete	\$75.50	15J	11G	8X	View
Skagit	Power Equipment Operators-Underground Sewer & Water	Scraper, Self Propelled Under 45 Yards	\$76.09	15J	11G	8X	View
Skagit	Power Equipment Operators-Underground Sewer & Water	Scrapers - Concrete & Carry All	\$75.50	15J	11G	8X	View
Skagit	Power Equipment Operators-Underground Sewer & Water	Scrapers, Self-propelled: 45 Yards And Over	\$76.77	15J	11G	8X	View
Skagit	Power Equipment Operators-Underground Sewer & Water	Shotcrete/Gunite Equipment	\$72.20	15J	11G	8X	View
Skagit	Power Equipment Operators-Underground Sewer & Water	Shovel, Excavator, Backhoe, Tractors Under 15 Metric Tons	\$75.50	15J	11G	8X	View
Skagit	Power Equipment Operators-Underground Sewer & Water	Shovel, Excavator, Backhoe: Over 30 Metric Tons To 50 Metric Tons	\$76.77	15J	11G	8X	View
Skagit	Power Equipment Operators-Underground Sewer & Water	Shovel, Excavator, Backhoes, Tractors: 15 To 30 Metric Tons	\$76.09	15J	11G	8X	View
Skagit	Power Equipment Operators-Underground Sewer & Water	Shovel, Excavator, Backhoes: Over 50 Metric Tons To 90 Metric Tons	\$77.53	15J	11G	8X	View
Skagit	Power Equipment Operators-Underground Sewer & Water	Shovel, Excavator, Backhoes: Over 90 Metric Tons	\$78.33	15J	11G	8X	View
Skagit	Power Equipment Operators-Underground Sewer & Water	Slipform Pavers	\$76.77	15J	11G	8X	View
Skagit	Power Equipment Operators-Underground Sewer & Water	Spreader, Topsider & Screedman	\$76.77	15J	11G	8X	View
Skagit	Power Equipment Operators-Underground Sewer & Water	Subgrader Trimmer	\$76.09	15J	11G	8X	View
Skagit	Power Equipment Operators-Underground Sewer & Water	Tower Bucket Elevators	\$75.50	15J	11G	8X	View
Skagit	Power Equipment Operators-Underground Sewer & Water	Tower Crane: over 175' through 250' in height, base to boom	\$78.44	7A	11H	8X	View
Skagit	Power Equipment Operators-Underground Sewer & Water	Tower crane: up to 175' in height base to boom	\$77.63	7A	11H	8X	View
Skagit	Power Equipment Operators-Underground Sewer & Water	Tower Cranes: over 250' in height from base to boom	\$79.20	7A	11H	8X	View
Skagit	Power Equipment Operators-Underground Sewer & Water	Transporters, All Track Or Truck Type	\$76.77	15J	11G	8X	View

Skagit	Power Equipment Operators-Underground Sewer & Water	Trenching Machines	\$75.50	15J	11G	8X	View
Skagit	Power Equipment Operators-Underground Sewer & Water	Truck Crane Oiler/Driver: 100 tons and over	\$76.19	7A	11H	8X	View
Skagit	Power Equipment Operators-Underground Sewer & Water	Truck crane oiler/driver: under 100 tons	\$75.60	7A	11H	8X	View
Skagit	Power Equipment Operators-Underground Sewer & Water	Truck Mount Portable Conveyor	\$76.09	15J	11G	8X	View
Skagit	Power Equipment Operators-Underground Sewer & Water	Welder	\$76.77	15J	11G	8X	View
Skagit	Power Equipment Operators-Underground Sewer & Water	Wheel Tractors, Farmall Type	\$72.20	15J	11G	8X	View
Skagit	Power Equipment Operators-Underground Sewer & Water	Yo Yo Pay Dozer	\$76.09	15J	11G	8X	View
Skagit	Power Line Clearance Tree Trimmers	Journey Level In Charge	\$57.22	5A	4A		View
Skagit	Power Line Clearance Tree Trimmers	Spray Person	\$54.32	5A	4A		View
Skagit	Power Line Clearance Tree Trimmers	Tree Equipment Operator	\$57.22	5A	4A		View
Skagit	Power Line Clearance Tree Trimmers	Tree Trimmer	\$51.18	5A	4A		View
Skagit	Power Line Clearance Tree Trimmers	Tree Trimmer Groundperson	\$38.99	5A	4A		View
Skagit	Refrigeration & Air Conditioning Mechanics	Journey Level	\$82.21	5A	1G		View
Skagit	Residential Brick Mason	Journey Level	\$32.30		1		View
Skagit	Residential Carpenters	Journey Level	\$32.48		1		View
Skagit	Residential Cement Masons	Journey Level	\$20.67		1		View
Skagit	Residential Drywall Applicators	Journey Level	\$49.17	15J	4C		View
Skagit	Residential Drywall Tapers	Journey Level	\$34.10		1		View
Skagit	Residential Electricians	Journey Level	\$42.61	7F	1D		View
Skagit	Residential Glaziers	Journey Level	\$49.80	7L	1H		View
Skagit	Residential Insulation Applicators	Journey Level	\$23.91		1		View
Skagit	Residential Laborers	Journey Level	\$23.64		1		View
Skagit	Residential Marble Setters	Journey Level	\$32.30		1		View
Skagit	Residential Painters	Journey Level	\$24.50		1		View
Skagit	Residential Plumbers & Pipefitters	Journey Level	\$82.22	5A	1G		View
Skagit	Residential Refrigeration & Air Conditioning Mechanics	Journey Level	\$47.68	5A	1G		View
Skagit	Residential Sheet Metal Workers	Journey Level	\$24.60		1		View
Skagit	Residential Soft Floor Layers	Journey Level	\$30.31		1		View
Skagit	Residential Sprinkler Fitters (Fire Protection)	Journey Level	\$32.87		1		View
Skagit	Residential Stone Masons	Journey Level	\$32.30		1		View
Skagit	Residential Terrazzo Workers	Journey Level	\$32.30		1		View
Skagit	Residential Terrazzo/Tile Finishers	Journey Level	\$35.85		1		View

Skagit	Residential Tile Setters	Journey Level	\$32.30		<u>1</u>	View
Skagit	Roofers	Journey Level	\$59.05	<u>5A</u>	<u>3H</u>	View
Skagit	Roofers	Using Irritable Bituminous Materials	\$62.05	<u>5A</u>	<u>3H</u>	View
Skagit	Sheet Metal Workers	Journey Level (Field or Shop)	\$85.05	<u>7F</u>	<u>1E</u>	View
Skagit	Shipbuilding & Ship Repair	New Construction Boilermaker	\$39.58	<u>7V</u>	<u>1</u>	View
Skagit	Shipbuilding & Ship Repair	New Construction Carpenter	\$39.58	<u>7V</u>	<u>1</u>	View
Skagit	Shipbuilding & Ship Repair	New Construction Crane Operator	\$39.58	<u>7V</u>	<u>1</u>	View
Skagit	Shipbuilding & Ship Repair	New Construction Electrician	\$39.58	<u>7V</u>	<u>1</u>	View
Skagit	Shipbuilding & Ship Repair	New Construction Heat & Frost Insulator	\$82.02	<u>15H</u>	<u>11C</u>	View
Skagit	Shipbuilding & Ship Repair	New Construction Laborer	\$39.58	<u>7V</u>	<u>1</u>	View
Skagit	Shipbuilding & Ship Repair	New Construction Machinist	\$39.58	<u>7V</u>	<u>1</u>	View
Skagit	Shipbuilding & Ship Repair	New Construction Operating Engineer	\$39.58	<u>7V</u>	<u>1</u>	View
Skagit	Shipbuilding & Ship Repair	New Construction Painter	\$39.58	<u>7V</u>	<u>1</u>	View
Skagit	Shipbuilding & Ship Repair	New Construction Pipefitter	\$39.58	<u>7V</u>	<u>1</u>	View
Skagit	Shipbuilding & Ship Repair	New Construction Rigger	\$39.58	<u>7V</u>	<u>1</u>	View
Skagit	Shipbuilding & Ship Repair	New Construction Sheet Metal	\$39.58	<u>7V</u>	<u>1</u>	View
Skagit	Shipbuilding & Ship Repair	New Construction Shipfitter	\$39.58	<u>7V</u>	<u>1</u>	View
Skagit	Shipbuilding & Ship Repair	New Construction Warehouse/Teamster	\$39.58	<u>7V</u>	<u>1</u>	View
Skagit	Shipbuilding & Ship Repair	New Construction Welder / Burner	\$39.58	<u>7V</u>	<u>1</u>	View
Skagit	Shipbuilding & Ship Repair	Ship Repair Boilermaker	\$47.45	<u>7X</u>	<u>4J</u>	View
Skagit	Shipbuilding & Ship Repair	Ship Repair Carpenter	\$47.35	<u>7X</u>	<u>4J</u>	View
Skagit	Shipbuilding & Ship Repair	Ship Repair Crane Operator	\$45.06	<u>7Y</u>	<u>4K</u>	View
Skagit	Shipbuilding & Ship Repair	Ship Repair Electrician	\$48.92	<u>7X</u>	<u>4J</u>	View
Skagit	Shipbuilding & Ship Repair	Ship Repair Heat & Frost Insulator	\$82.02	<u>15H</u>	<u>11C</u>	View
Skagit	Shipbuilding & Ship Repair	Ship Repair Laborer	\$47.35	<u>7X</u>	<u>4J</u>	View
Skagit	Shipbuilding & Ship Repair	Ship Repair Machinist	\$47.35	<u>7X</u>	<u>4J</u>	View
Skagit	Shipbuilding & Ship Repair	Ship Repair Operating Engineer	\$45.06	<u>7Y</u>	<u>4K</u>	View
Skagit	Shipbuilding & Ship Repair	Ship Repair Painter	\$47.35	<u>7X</u>	<u>4J</u>	View
Skagit	Shipbuilding & Ship Repair	Ship Repair Pipefitter	\$47.35	<u>7X</u>	<u>4J</u>	View
Skagit	Shipbuilding & Ship Repair	Ship Repair Rigger	\$47.45	<u>7X</u>	<u>4J</u>	View
Skagit	Shipbuilding & Ship Repair	Ship Repair Sheet Metal	\$47.35	<u>7X</u>	<u>4J</u>	View
Skagit	Shipbuilding & Ship Repair	Ship Repair Shipwright	\$47.35	<u>7X</u>	<u>4J</u>	View
Skagit	Shipbuilding & Ship Repair	Ship Repair Warehouse / Teamster	\$45.06	<u>7Y</u>	<u>4K</u>	View
Skagit	Sign Makers & Installers (Electrical)	Journey Level	\$16.03		<u>1</u>	View
Skagit	Sign Makers & Installers (Non-Electrical)	Journey Level	\$14.49		<u>1</u>	View
Skagit	Soft Floor Layers	Journey Level	\$54.41	<u>5A</u>	<u>3J</u>	View
Skagit	Solar Controls For Windows	Journey Level	\$14.49		<u>1</u>	View
Skagit	Sprinkler Fitters (Fire Protection)	Journey Level	\$89.49	<u>5C</u>	<u>1X</u>	View

Skagit	Stage Rigging Mechanics (Non Structural)	Journey Level	\$14.49		<u>1</u>		View
Skagit	Stone Masons	Journey Level	\$63.32	<u>7E</u>	<u>1N</u>		View
Skagit	Street And Parking Lot Sweeper Workers	Journey Level	\$15.00		<u>1</u>		View
Skagit	Surveyors	Assistant Construction Site Surveyor	\$75.60	<u>7A</u>	<u>11H</u>	<u>8X</u>	View
Skagit	Surveyors	Chainman	\$72.30	<u>7A</u>	<u>11H</u>	<u>8X</u>	View
Skagit	Surveyors	Construction Site Surveyor	\$76.87	<u>7A</u>	<u>11H</u>	<u>8X</u>	View
Skagit	Surveyors	Drone Operator (when used in conjunction with survey work only)	\$72.30	<u>7A</u>	<u>11H</u>	<u>8X</u>	View
Skagit	Surveyors	Ground Penetrating Radar Operator	\$72.30	<u>7A</u>	<u>11H</u>	<u>8X</u>	View
Skagit	Telecommunication Technicians	Telecom Technician Journey Level	\$49.41	<u>5B</u>	<u>1B</u>		View
Skagit	Telephone Line Construction - Outside	Cable Splicer	\$38.27	<u>5A</u>	<u>2B</u>		View
Skagit	Telephone Line Construction - Outside	Hole Digger/Ground Person	\$25.66	<u>5A</u>	<u>2B</u>		View
Skagit	Telephone Line Construction - Outside	Telephone Equipment Operator (Light)	\$31.96	<u>5A</u>	<u>2B</u>		View
Skagit	Telephone Line Construction - Outside	Telephone Lineperson	\$36.17	<u>5A</u>	<u>2B</u>		View
Skagit	Terrazzo Workers	Journey Level	\$58.71	<u>7E</u>	<u>1N</u>		View
Skagit	Tile Setters	Journey Level	\$58.71	<u>7E</u>	<u>1N</u>		View
Skagit	Tile, Marble & Terrazzo Finishers	Finisher	\$49.54	<u>7E</u>	<u>1N</u>		View
Skagit	Traffic Control Stripers	Journey Level	\$50.51	<u>7A</u>	<u>1K</u>		View
Skagit	Truck Drivers	Asphalt Mix Over 16 Yards	\$69.20	<u>15J</u>	<u>11I</u>	<u>8L</u>	View
Skagit	Truck Drivers	Asphalt Mix To 16 Yards	\$68.36	<u>15J</u>	<u>11I</u>	<u>8L</u>	View
Skagit	Truck Drivers	Dump Truck	\$68.36	<u>15J</u>	<u>11I</u>	<u>8L</u>	View
Skagit	Truck Drivers	Dump Truck & Trailer	\$69.20	<u>15J</u>	<u>11I</u>	<u>8L</u>	View
Skagit	Truck Drivers	Other Trucks	\$69.20	<u>15J</u>	<u>11I</u>	<u>8L</u>	View
Skagit	Truck Drivers - Ready Mix	Transit Mix	\$69.20	<u>15J</u>	<u>11I</u>	<u>8L</u>	View
Skagit	Well Drillers & Irrigation Pump Installers	Irrigation Pump Installer	\$14.49		<u>1</u>		View
Skagit	Well Drillers & Irrigation Pump Installers	Oiler	\$14.49		<u>1</u>		View
Skagit	Well Drillers & Irrigation Pump Installers	Well Driller	\$14.49		<u>1</u>		View

Benefit Code Key – Effective 3/3/2022 thru 8/30/2022

Overtime Codes

Overtime calculations are based on the hourly rate actually paid to the worker. On public works projects, the hourly rate must be not less than the prevailing rate of wage minus the hourly rate of the cost of fringe benefits actually provided for the worker.

1. ALL HOURS WORKED IN EXCESS OF EIGHT (8) HOURS PER DAY OR FORTY (40) HOURS PER WEEK SHALL BE PAID AT ONE AND ONE-HALF TIMES THE HOURLY RATE OF WAGE.
 - B. All hours worked on Saturdays shall be paid at one and one-half times the hourly rate of wage. All hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.
 - C. The first two (2) hours after eight (8) regular hours Monday through Friday and the first ten (10) hours on Saturday shall be paid at one and one-half times the hourly rate of wage. All other overtime hours and all hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.
 - D. The first two (2) hours before or after a five-eight (8) hour workweek day or a four-ten (10) hour workweek day and the first eight (8) hours worked the next day after either workweek shall be paid at one and one-half times the hourly rate of wage. All additional hours worked and all worked on Sundays and holidays shall be paid at double the hourly rate of wage.
 - E. The first two (2) hours after eight (8) regular hours Monday through Friday and the first eight (8) hours on Saturday shall be paid at one and one-half times the hourly rate of wage. All other hours worked Monday through Saturday, and all hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.
 - F. The first two (2) hours after eight (8) regular hours Monday through Friday and the first ten (10) hours on Saturday shall be paid at one and one-half times the hourly rate of wage. All other overtime hours worked, except Labor Day, shall be paid at double the hourly rate of wage. All hours worked on Labor Day shall be paid at three times the hourly rate of wage.
 - G. The first ten (10) hours worked on Saturdays and the first ten (10) hours worked on a fifth calendar weekday in a four-ten hour schedule, shall be paid at one and one-half times the hourly rate of wage. All hours worked in excess of ten (10) hours per day Monday through Saturday and all hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.
 - H. All hours worked on Saturdays (except makeup days if work is lost due to inclement weather conditions or equipment breakdown) shall be paid at one and one-half times the hourly rate of wage. All hours worked Monday through Saturday over twelve (12) hours and all hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.
 - I. All hours worked on Sundays and holidays shall also be paid at double the hourly rate of wage.
 - J. The first two (2) hours after eight (8) regular hours Monday through Friday and the first ten (10) hours on Saturday shall be paid at one and one-half times the hourly rate of wage. All hours worked over ten (10) hours Monday through Saturday, Sundays and holidays shall be paid at double the hourly rate of wage.
 - K. All hours worked on Saturdays and Sundays shall be paid at one and one-half times the hourly rate of wage. All hours worked on holidays shall be paid at double the hourly rate of wage.
 - M. All hours worked on Saturdays (except makeup days if work is lost due to inclement weather conditions) shall be paid at one and one-half times the hourly rate of wage. All hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.
 - N. All hours worked on Saturdays (except makeup days) shall be paid at one and one-half times the hourly rate of wage. All hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.

Overtime Codes Continued

1. O. The first ten (10) hours worked on Saturday shall be paid at one and one-half times the hourly rate of wage. All hours worked on Sundays, holidays and after twelve (12) hours, Monday through Friday and after ten (10) hours on Saturday shall be paid at double the hourly rate of wage.
- P. All hours worked on Saturdays (except makeup days if circumstances warrant) and Sundays shall be paid at one and one-half times the hourly rate of wage. All hours worked on holidays shall be paid at double the hourly rate of wage.
- Q. The first two (2) hours after eight (8) regular hours Monday through Friday and up to ten (10) hours worked on Saturdays shall be paid at one and one-half times the hourly rate of wage. All hours worked in excess of ten (10) hours per day Monday through Saturday and all hours worked on Sundays and holidays (except Christmas day) shall be paid at double the hourly rate of wage. All hours worked on Christmas day shall be paid at two and one-half times the hourly rate of wage.
- R. All hours worked on Sundays and holidays shall be paid at two times the hourly rate of wage.
- U. All hours worked on Saturdays shall be paid at one and one-half times the hourly rate of wage. All hours worked on Sundays and holidays (except Labor Day) shall be paid at two times the hourly rate of wage. All hours worked on Labor Day shall be paid at three times the hourly rate of wage.
- V. All hours worked on Sundays and holidays (except Thanksgiving Day and Christmas day) shall be paid at one and one-half times the hourly rate of wage. All hours worked on Thanksgiving Day and Christmas day shall be paid at double the hourly rate of wage.
- W. All hours worked on Saturdays and Sundays (except make-up days due to conditions beyond the control of the employer)) shall be paid at one and one-half times the hourly rate of wage. All hours worked on holidays shall be paid at double the hourly rate of wage.
- X. The first four (4) hours after eight (8) regular hours Monday through Friday and the first twelve (12) hours on Saturday shall be paid at one and one-half times the hourly rate of wage. All hours worked over twelve (12) hours Monday through Saturday, Sundays and holidays shall be paid at double the hourly rate of wage. When holiday falls on Saturday or Sunday, the day before Saturday, Friday, and the day after Sunday, Monday, shall be considered the holiday and all work performed shall be paid at double the hourly rate of wage.
- Y. All hours worked outside the hours of 5:00 am and 5:00 pm (or such other hours as may be agreed upon by any employer and the employee) and all hours worked in excess of eight (8) hours per day (10 hours per day for a 4 x 10 workweek) and on Saturdays and holidays (except labor day) shall be paid at one and one-half times the hourly rate of wage. (except for employees who are absent from work without prior approval on a scheduled workday during the workweek shall be paid at the straight-time rate until they have worked 8 hours in a day (10 in a 4 x 10 workweek) or 40 hours during that workweek.) All hours worked Monday through Saturday over twelve (12) hours and all hours worked on Sundays and Labor Day shall be paid at double the hourly rate of wage.
- Z. All hours worked on Saturdays and Sundays shall be paid at one and one-half times the hourly rate of wage. All hours worked on holidays shall be paid the straight time rate of pay in addition to holiday pay.

Overtime Codes Continued

2. ALL HOURS WORKED IN EXCESS OF EIGHT (8) HOURS PER DAY OR FORTY (40) HOURS PER WEEK SHALL BE PAID AT ONE AND ONE-HALF TIMES THE HOURLY RATE OF WAGE.
- B. All hours worked on holidays shall be paid at one and one-half times the hourly rate of wage.
- F. The first eight (8) hours worked on holidays shall be paid at the straight hourly rate of wage in addition to the holiday pay. All hours worked in excess of eight (8) hours on holidays shall be paid at double the hourly rate of wage.
- M. This code appears to be missing. All hours worked on Saturdays, Sundays and holidays shall be paid at double the hourly rate of wage.
- O. All hours worked on Sundays and holidays shall be paid at one and one-half times the hourly rate of wage.
- R. All hours worked on Sundays and holidays and all hours worked over sixty (60) in one week shall be paid at double the hourly rate of wage.
- U. All hours worked on Saturdays shall be paid at one and one-half times the hourly rate of wage. All hours worked over 12 hours in a day or on Sundays and holidays shall be paid at double the hourly rate of wage.
3. ALL HOURS WORKED IN EXCESS OF EIGHT (8) HOURS PER DAY OR FORTY (40) HOURS PER WEEK SHALL BE PAID AT ONE AND ONE-HALF TIMES THE HOURLY RATE OF WAGE.
- F. All hours worked on Saturday shall be paid at one and one-half times the hourly rate of wage. All hours worked on Sunday shall be paid at two times the hourly rate of wage. All hours worked on paid holidays shall be paid at two and one-half times the hourly rate of wage including holiday pay.
- H. All work performed on Sundays between March 16th and October 14th and all Holidays shall be compensated for at two (2) times the regular rate of pay. Work performed on Sundays between October 15th and March 15th shall be compensated at one and one half (1-1/2) times the regular rate of pay.
- J. All hours worked between the hours of 10:00 pm and 5:00 am, Monday through Friday, and all hours worked on Saturdays shall be paid at a one and one-half times the hourly rate of wage. All hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.
- K. Work performed in excess of eight (8) hours of straight time per day, or ten (10) hours of straight time per day when four ten (10) hour shifts are established, or forty (40) hours of straight time per week, Monday through Friday, or outside the normal 5 am to 6pm shift, and all work on Saturdays shall be paid at one and one-half times the hourly rate of wage. All work performed after 6:00 pm Saturday to 5:00 am Monday and Holidays, and all hours worked in excess of twelve (12) hours in a single shift shall be paid at double the hourly rate of wage.
- After an employee has worked eight (8) hours at an applicable overtime rate, all additional hours shall be at the applicable overtime rate until such time as the employee has had a break of eight (8) hours or more. When an employee returns to work without at least eight (8) hours time off since their previous shift, all such time shall be a continuation of shift and paid at the applicable overtime rate until he/she shall have the eight (8) hours rest period.
4. ALL HOURS WORKED IN EXCESS OF EIGHT (8) HOURS PER DAY OR FORTY (40) HOURS PER WEEK SHALL BE PAID AT ONE AND ONE-HALF TIMES THE HOURLY RATE OF WAGE.
- A. All hours worked in excess of eight (8) hours per day or forty (40) hours per week shall be paid at double the hourly rate of wage. All hours worked on Saturdays, Sundays and holidays shall be paid at double the hourly rate of wage.

Overtime Codes Continued

4. C. On Monday through Friday, the first four (4) hours of overtime after eight (8) hours of straight time work shall be paid at one and one half (1-1/2) times the straight time rate of pay, unless a four (4) day ten (10) hour workweek has been established. On a four (4) day ten (10) hour workweek scheduled Monday through Thursday, or Tuesday through Friday, the first two (2) hours of overtime after ten (10) hours of straight time work shall be paid at one and one half (1-1/2) times the straight time rate of pay. On Saturday, the first twelve (12) hours of work shall be paid at one and one half (1-1/2) times the straight time rate of pay, except that if the job is down on Monday through Friday due to weather conditions or other conditions outside the control of the employer, the first ten (10) hours on Saturday may be worked at the straight time rate of pay. All hours worked over twelve (12) hours in a day and all hours worked on Sunday and Holidays shall be paid at two (2) times the straight time rate of pay.

- D. All hours worked in excess of eight (8) hours per day or forty (40) hours per week shall be paid at double the hourly rate of wage. All hours worked on Saturday, Sundays and holidays shall be paid at double the hourly rate of pay. Rates include all members of the assigned crew.

EXCEPTION:

On all multipole structures and steel transmission lines, switching stations, regulating, capacitor stations, generating plants, industrial plants, associated installations and substations, except those substations whose primary function is to feed a distribution system, will be paid overtime under the following rates:

The first two (2) hours after eight (8) regular hours Monday through Friday of overtime on a regular workday, shall be paid at one and one-half times the hourly rate of wage. All hours in excess of ten (10) hours will be at two (2) times the hourly rate of wage. The first eight (8) hours worked on Saturday will be paid at one and one-half (1-1/2) times the hourly rate of wage. All hours worked in excess of eight (8) hours on Saturday, and all hours worked on Sundays and holidays will be at the double the hourly rate of wage.

All overtime eligible hours performed on the above described work that is energized, shall be paid at the double the hourly rate of wage.

- E. The first two (2) hours after eight (8) regular hours Monday through Friday and the first eight (8) hours on Saturday shall be paid at one and one-half times the hourly rate of wage. All other hours worked Monday through Saturday, and all hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.

On a four-day, ten-hour weekly schedule, either Monday thru Thursday or Tuesday thru Friday schedule, all hours worked after ten shall be paid at double the hourly rate of wage. The Monday or Friday not utilized in the normal four-day, ten hour work week, and Saturday shall be paid at one and one half (1½) times the regular shift rate for the first eight (8) hours. All other hours worked Monday through Saturday, and all hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.

- G. All hours worked on Saturdays shall be paid at one and one-half times the hourly rate of wage. All hours worked Monday through Saturday over twelve (12) hours and all hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.

- I. The First eight (8) hours worked on Saturdays shall be paid at one and one-half times the hourly rate of wage. All hours worked in excess of eight (8) per day on Saturdays shall be paid at double the hourly rate of wage. All hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.

Overtime Codes Continued

4. J. The first eight (8) hours worked on a Saturday shall be paid at one and one-half times the hourly rate of wage. All hours worked in excess of eight (8) hours on a Saturday shall be paid at double the hourly rate of wage. All hours worked over twelve (12) in a day, and all hours worked on Sundays and Holidays shall be paid at double the hourly rate of wage.
- K. All hours worked on a Saturday shall be paid at one and one-half times the hourly rate of wage, so long as Saturday is the sixth consecutive day worked. All hours worked over twelve (12) in a day Monday through Saturday, and all hours worked on Sundays and Holidays shall be paid at double the hourly rate of wage.
- L. The first twelve (12) hours worked on a Saturday shall be paid at one and one-half times the hourly rate of wage. All hours worked on a Saturday in excess of twelve (12) hours shall be paid at double the hourly rate of pay. All hours worked over twelve (12) in a day Monday through Friday, and all hours worked on Sundays shall be paid at double the hourly rate of wage. All hours worked on a holiday shall be paid at one and one-half times the hourly rate of wage, except that all hours worked on Labor Day shall be paid at double the hourly rate of pay.
- U. The first four (4) hours after eight (8) regular hours Monday through Friday and the first twelve (12) hours on Saturday shall be paid at one and one-half times the hourly rate of wage. (Except on makeup days if work is lost due to inclement weather, then the first eight (8) hours on Saturday may be paid the regular rate.) All hours worked over twelve (12) hours Monday through Saturday, and all hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.
- V. Work performed in excess of ten (10) hours of straight time per day when four ten (10) hour shifts are established or outside the normal shift (5 am to 6pm), and all work on Saturdays, except for make-up days shall be paid at time and one-half (1 ½) the straight time rate.

In the event the job is down due to weather conditions, then Saturday may, be worked as a voluntary make-up day at the straight time rate. However, Saturday shall not be utilized as a make-up day when a holiday falls on Friday. All work performed on Sundays and holidays and work in excess of twelve (12) hours per day shall be paid at double (2x) the straight time rate of pay.

After an employee has worked eight (8) hours at an applicable overtime rate, all additional hours shall be at the applicable overtime rate until such time as the employee has had a break of eight (8) hours.

When an employee returns to work without a break of eight (8) hours since their previous shift, all such time shall be a continuation of shift and paid at the applicable overtime rate until such time as the employee has had a break of eight (8) hours.

- W. All hours worked on Saturdays (except makeup days if work is lost due to inclement weather conditions) shall be paid at one and one-half times the hourly rate of wage. All hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.

When an employee returns to work without at least eight (8) hours time off since their previous shift, all such time shall be a continuation of shift and paid at the applicable overtime rate until such time as the employee has had a break of eight (8) hours.

Overtime Codes Continued

4. X. All hours worked on Saturdays shall be paid at one and one-half times the hourly rate of wage. All hours worked on Sundays and holidays shall be paid at double the hourly rate of wage. Work performed outside the normal shift of 6 am to 6pm shall be paid at one and one-half the straight time rate, (except for special shifts or three shift operations). All work performed on Sundays and holidays shall be paid at double the hourly rate of wage. Shifts may be established when considered necessary by the Employer.

The Employer may establish shifts consisting of eight (8) or ten (10) hours of work (subject to WAC 296-127-022), that shall constitute a normal forty (40) hour work week. The Employer can change from a 5-eight to a 4-ten hour schedule or back to the other. All hours of work on these shifts shall be paid for at the straight time hourly rate. Work performed in excess of eight hours (or ten hours per day (subject to WAC 296-127-022) shall be paid at one and one-half the straight time rate.

When due to conditions beyond the control of the Employer, or when contract specifications require that work can only be performed outside the regular day shift, then by mutual agreement a special shift may be worked at the straight time rate, eight (8) hours work for eight (8) hours pay. The starting time shall be arranged to fit such conditions of work.

When an employee returns to work without at a break of eight (8) hours since their previous shift, all such time shall be a continuation of shift and paid at the applicable overtime rate until such time as the employee has had a break of eight (8) hours.

- Y. Work performed in excess of eight (8) hours of straight time per day, or ten (10) hours of straight time per day when four ten (10) hour shifts are established, or forty (40) hours of straight time per week, Monday through Friday, or outside the normal shift, and all work on Saturdays shall be paid at time and one-half the straight time rate. All work performed after 6:00 pm Saturday to 6:00 am Monday and holidays shall be paid at double the straight time rate of pay.

Any shift starting between the hours of 6:00 pm and midnight shall receive an additional one dollar (\$1.00) per hour for all hours worked that shift.

After an employee has worked eight (8) hours at an applicable overtime rate, all additional hours shall be at the applicable overtime rate until such time as the employee has had a break of eight (8) hours or more.

- Z. All hours worked between the hours of 6:00 pm and 6:00 am, Monday through Saturday, shall be paid at a premium rate of 20% over the hourly rate of wage. Work performed on Sundays may be paid at double time. All hours worked on holidays shall be paid at double the hourly rate of wage.

11. ALL HOURS WORKED IN EXCESS OF EIGHT (8) HOURS PER DAY OR FORTY (40) HOURS PER WEEK SHALL BE PAID AT ONE AND ONE-HALF TIMES THE HOURLY RATE OF WAGE.

- B After an employee has worked eight (8) hours, all additional hours worked shall be paid at the applicable overtime rate until such time as the employee has had a break of eight (8) hours or more.

- C The first two (2) hours after eight (8) regular hours Monday through Friday and the first eight (8) hours on Saturday shall be paid at one and one-half times the hourly rate of wage. All other overtime hours worked, except Labor Day, and all hours on Sunday shall be paid at double the hourly rate of wage. All hours worked on Labor Day shall be paid at three times the hourly rate of wage. All non-overtime and non-holiday hours worked between 4:00 pm and 5:00 am, Monday through Friday, shall be paid at a premium rate of 15% over the hourly rate of wage.

Overtime Codes Continued

11. D. All hours worked on Saturdays and holidays shall be paid at one and one-half times the hourly rate of wage. All hours worked on Sundays shall be paid at double the hourly rate of wage.
- After an employee has worked eight (8) hours, all additional hours worked shall be paid at the applicable overtime rate until such time as the employee has had a break of eight (8) hours or more.
- E. The first two (2) hours after eight (8) regular hours Monday through Friday, the first ten (10) hours on Saturday, and the first ten (10) hours worked on Holidays shall be paid at one and one-half times the hourly rate of wage. All hours worked over ten (10) hours Monday through Saturday, and Sundays shall be paid at double the hourly rate of wage.
- After an employee has worked eight (8) hours, all additional hours worked shall be paid at the applicable overtime rate until such time as the employee has had a break of eight (8) hours or more.
- F. The first two (2) hours after eight (8) regular hours Monday through Friday and the first eight (8) hours on Saturday shall be paid at one and one-half times the hourly rate of wage. All other hours worked Monday through Saturday, and all hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.
- On a four-day, ten-hour weekly schedule, either Monday thru Thursday or Tuesday thru Friday schedule, all hours worked after ten shall be paid at double the hourly rate of wage. The Monday or Friday not utilized in the normal four-day, ten hour work week, and Saturday shall be paid at one-half times the hourly rate of wage for the first eight (8) hours. All other hours worked Monday through Saturday, and all hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.
- G. Work performed in excess of eight (8) hours of straight time per day, or ten (10) hours of straight time per day when four ten (10) hour shifts are established, or forty (40) hours of straight time per week, Monday through Friday, or outside the normal 5 am to 6pm shift, and all work on Saturdays shall be paid at one and one-half times the hourly rate of wage.
- All work performed after 6:00 pm Saturday to 5:00 am Monday and Holidays, and all hours worked in excess of twelve (12) hours in a single shift shall be paid at double the hourly rate of wage.
- After an employee has worked eight (8) hours at an applicable overtime rate, all additional hours shall be at the applicable overtime rate until such time as the employee has had a break of nine (9) hours or more. When an employee returns to work without at least nine (9) hours time off since their previous shift, all such time shall be a continuation of shift and paid at the applicable overtime rate until he/she shall have the nine (9) hours rest period.
- H. Work performed in excess of eight (8) hours of straight time per day, or ten (10) hours of straight time per day when four ten (10) hour shifts are established, or forty (40) hours of straight time per week, Monday through Friday, or outside the normal 5 am to 6pm shift, and all work on Saturdays shall be paid at one and one-half times the hourly rate of wage.
- All work performed after 6:00 pm Saturday to 5:00 am Monday and Holidays, and all hours worked in excess of twelve (12) hours in a single shift shall be paid at double the hourly rate of wage.
- After an employee has worked eight (8) hours at an applicable overtime rate, all additional hours shall be at the applicable overtime rate until such time as the employee has had a break of ten (10) hours or more. When an employee returns to work without at least ten (10) hours time off since their previous shift, all such time shall be a continuation of shift and paid at the applicable overtime rate until he/she shall have the ten (10) hours rest period.

Overtime Codes Continued

Benefit Code Key – Effective 3/3/2022 thru 8/30/2022

11. I. On Monday through Friday, the first four (4) hours of overtime after eight (8) hours of straight time work shall be paid at one and one half (1-1/2) times the straight time rate of pay, unless a four (4) day ten (10) hour workweek has been established. On a four (4) day ten (10) hour workweek scheduled Monday through Thursday, or Tuesday through Friday, the first two (2) hours of overtime after ten (10) hours of straight time work shall be paid at one and one half (1-1/2) times the straight time rate of pay.

On Saturday, the first twelve (12) hours of work shall be paid at one and one half (1-1/2) times the straight time rate of pay. All work performed after 6:00 pm Saturday to 5:00 am Monday, all work performed over twelve (12) hours, and all work performed on holidays shall be paid at double the straight time rate of pay.

Any shift starting between the hours of 6:00 pm and midnight shall receive an additional two dollar (\$2.00) per hour for all hours worked that shift.

Holiday Codes

5. A. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Friday after Thanksgiving Day, and Christmas Day (7).
- B. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Friday after Thanksgiving Day, the day before Christmas, and Christmas Day (8).
- C. Holidays: New Year's Day, Presidents' Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, And Christmas Day (8).
- D. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday and Saturday after Thanksgiving Day, And Christmas Day (8).
- H. Holidays: New Year's Day, Memorial Day, Independence Day, Thanksgiving Day, the Day after Thanksgiving Day, And Christmas (6).
- I. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, and Christmas Day (6).
- J. Holidays: New Year's Day, Memorial Day, Independence Day, Thanksgiving Day, Friday after Thanksgiving Day, Christmas Eve Day, And Christmas Day (7).
- K. Holidays: New Year's Day, Presidents' Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Friday After Thanksgiving Day, The Day Before Christmas, And Christmas Day (9).
- L. Holidays: New Year's Day, Martin Luther King Jr. Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Friday after Thanksgiving Day, And Christmas Day (8).
- N. Holidays: New Year's Day, Presidents' Day, Memorial Day, Independence Day, Labor Day, Veterans' Day, Thanksgiving Day, The Friday After Thanksgiving Day, And Christmas Day (9).
- P. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Friday And Saturday After Thanksgiving Day, The Day Before Christmas, And Christmas Day (9). If A Holiday Falls On Sunday, The Following Monday Shall Be Considered As A Holiday.
- Q. Paid Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, and Christmas Day (6).

Holiday Codes Continued

- R. Paid Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Day After Thanksgiving Day, One-Half Day Before Christmas Day, And Christmas Day. (7 1/2).
 - S. Paid Holidays: New Year's Day, Presidents' Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, And Christmas Day (7).
 - Z. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Veterans Day, Thanksgiving Day, the Friday after Thanksgiving Day, And Christmas Day (8).
- 6.
- G. Paid Holidays: New Year's Day, Martin Luther King Jr. Day, Presidents' Day, Memorial Day, Independence Day, Labor Day, Veterans' Day, Thanksgiving Day, the Friday after Thanksgiving Day, Christmas Day, and Christmas Eve Day (11).
 - H. Paid Holidays: New Year's Day, New Year's Eve Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Friday After Thanksgiving Day, Christmas Day, The Day After Christmas, And A Floating Holiday (10).
 - T. Paid Holidays: New Year's Day, Presidents' Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, The Friday After Thanksgiving Day, The Last Working Day Before Christmas Day, And Christmas Day (9).
 - Z. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Friday after Thanksgiving Day, And Christmas Day (7). If a holiday falls on Saturday, the preceding Friday shall be considered as the holiday. If a holiday falls on Sunday, the following Monday shall be considered as the holiday.
- 7.
- A. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday and Saturday after Thanksgiving Day, And Christmas Day (8). Any Holiday Which Falls On A Sunday Shall Be Observed As A Holiday On The Following Monday. If any of the listed holidays falls on a Saturday, the preceding Friday shall be a regular work day.
 - B. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday and Saturday after Thanksgiving Day, And Christmas Day (8). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. Any holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.
 - C. Holidays: New Year's Day, Martin Luther King Jr. Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, And Christmas Day (8). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. Any holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.
 - D. Paid Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Veteran's Day, Thanksgiving Day, the Friday after Thanksgiving Day, And Christmas Day (8). Unpaid Holidays: President's Day. Any paid holiday which falls on a Sunday shall be observed as a holiday on the following Monday. Any paid holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.
 - E. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, And Christmas Day (7). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. Any holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.

Holiday Codes Continued

7. F. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, the last working day before Christmas day and Christmas day (8). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. Any holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.
- G. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, and Christmas Day (6). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday.
- H. Holidays: New Year's Day, Martin Luther King Jr. Day, Independence Day, Memorial Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, the Last Working Day before Christmas Day and Christmas Day (9). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. Any holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.
- I. Holidays: New Year's Day, President's Day, Independence Day, Memorial Day, Labor Day, Thanksgiving Day, The Friday After Thanksgiving Day, The Day Before Christmas Day And Christmas Day (9). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. Any holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.
- J. Holidays: New Year's Day, Independence Day, Memorial Day, Labor Day, Thanksgiving Day and Christmas Day (6). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. Any holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.
- K. Holidays: New Year's Day, Memorial Day, Independence Day, Thanksgiving Day, the Friday and Saturday after Thanksgiving Day, And Christmas Day (8). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. Any holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.
- L. Holidays: New Year's Day, Memorial Day, Labor Day, Independence Day, Thanksgiving Day, the Last Work Day before Christmas Day, And Christmas Day (7). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. Any holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.
- N. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, And Christmas Day (7). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. When Christmas falls on a Saturday, the preceding Friday shall be observed as a holiday.
- P. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Friday after Thanksgiving Day, And Christmas Day (7). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday.
- Q. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, the Last Working Day before Christmas Day and Christmas Day (8). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. If any of the listed holidays falls on a Saturday, the preceding Friday shall be a regular work day.
- S. Paid Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Friday after Thanksgiving Day, Christmas Day, the Day after Christmas, and A Floating Holiday (9). If any of the listed holidays falls on a Sunday, the day observed by the Nation shall be considered a holiday and compensated accordingly.
- V. Holidays: New Year's Day, President's Birthday, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, Christmas Day, the day before or after Christmas, and the day before or after New Year's Day. If any of the above listed holidays falls on a Sunday, the day observed by the Nation shall be considered a holiday and compensated accordingly.

Holiday Codes Continued

7. W. Holidays: New Year's Day, Day After New Year's, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, Christmas Eve Day, Christmas Day, the day after Christmas, the day before New Year's Day, and a Floating Holiday.
- X. Holidays: New Year's Day, Day before or after New Year's Day, Presidents' Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, Christmas Day, and the day before or after Christmas day. If a holiday falls on a Saturday or on a Friday that is the normal day off, then the holiday will be taken on the last normal workday. If the holiday falls on a Monday that is the normal day off or on a Sunday, then the holiday will be taken on the next normal workday.
- Y. Holidays: New Year's Day, Presidents' Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, and Christmas Day. (8) If the holiday falls on a Sunday, then the day observed by the federal government shall be considered a holiday and compensated accordingly.
- G. New Year's Day, Washington's Birthday, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, The Friday After Thanksgiving Day, the last scheduled workday before Christmas, and Christmas Day (9). If any of the listed holidays falls on a Sunday, the day observed by the Nation shall be considered a holiday and compensated accordingly.
- H. Holidays: New Year's Day, Martin Luther King Jr. Day, Independence Day, Memorial Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, the Last Working Day before Christmas Day and Christmas Day (9). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. Any holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.
- I. Holidays: New Year's Day, President's Day, Independence Day, Memorial Day, Labor Day, Thanksgiving Day, The Friday After Thanksgiving Day, The Day Before Christmas Day And Christmas Day (9). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. Any holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.
- J. Holidays: New Year's Day, Independence Day, Memorial Day, Labor Day, Thanksgiving Day and Christmas Day (6). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. Any holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.
- K. Holidays: New Year's Day, Memorial Day, Independence Day, Thanksgiving Day, the Friday and Saturday after Thanksgiving Day, And Christmas Day (8). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. Any holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.
- L. Holidays: New Year's Day, Memorial Day, Labor Day, Independence Day, Thanksgiving Day, the Last Work Day before Christmas Day, And Christmas Day (7). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. Any holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.
- N. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, And Christmas Day (7). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. When Christmas falls on a Saturday, the preceding Friday shall be observed as a holiday.
- P. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Friday after Thanksgiving Day, And Christmas Day (7). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday.

Holiday Codes Continued

7. Q. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, the Last Working Day before Christmas Day and Christmas Day (8). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. If any of the listed holidays falls on a Saturday, the preceding Friday shall be a regular work day.
- S. Paid Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Friday after Thanksgiving Day, Christmas Day, the Day after Christmas, and A Floating Holiday (9). If any of the listed holidays falls on a Sunday, the day observed by the Nation shall be considered a holiday and compensated accordingly.
- V. Holidays: New Year's Day, President's Birthday, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, Christmas Day, the day before or after Christmas, and the day before or after New Year's Day. If any of the above listed holidays falls on a Sunday, the day observed by the Nation shall be considered a holiday and compensated accordingly.
- W. Holidays: New Year's Day, Day After New Year's, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, Christmas Eve Day, Christmas Day, the day after Christmas, the day before New Year's Day, and a Floating Holiday.
- X. Holidays: New Year's Day, Day before or after New Year's Day, Presidents' Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, Christmas Day, and the day before or after Christmas day. If a holiday falls on a Saturday or on a Friday that is the normal day off, then the holiday will be taken on the last normal workday. If the holiday falls on a Monday that is the normal day off or on a Sunday, then the holiday will be taken on the next normal workday.
- Y. Holidays: New Year's Day, Presidents' Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, and Christmas Day. (8) If the holiday falls on a Sunday, then the day observed by the federal government shall be considered a holiday and compensated accordingly.
15. G. New Year's Day, Washington's Birthday, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, The Friday After Thanksgiving Day, the last scheduled workday before Christmas, and Christmas Day (9). If any of the listed holidays falls on a Sunday, the day observed by the Nation shall be considered a holiday and compensated accordingly.
- H. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Friday after Thanksgiving Day, Christmas Eve Day, and Christmas Day (8). When the following holidays fall on a Saturday (New Year's Day, Independence Day, and Christmas Day) the preceding Friday will be considered as the holiday; should they fall on a Sunday, the following Monday shall be considered as the holiday.
- I. Holidays: New Year's Day, President's Day, Memorial Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, Christmas Day, the last regular workday before Christmas (8). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday.
- J. Holidays: New Year's Day, Martin Luther King Jr. Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday and Saturday after Thanksgiving Day, and Christmas Day (9). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. If any of the listed holidays falls on a Saturday, the preceding Friday shall be a regular work day.

Note Codes

8. D. Workers working with supplied air on hazmat projects receive an additional \$1.00 per hour.
- L. Workers on hazmat projects receive additional hourly premiums as follows -Level A: \$0.75, Level B: \$0.50, And Level C: \$0.25.
- M. Workers on hazmat projects receive additional hourly premiums as follows: Levels A & B: \$1.00, Levels C & D: \$0.50.
- N. Workers on hazmat projects receive additional hourly premiums as follows -Level A: \$1.00, Level B: \$0.75, Level C: \$0.50, And Level D: \$0.25.
- S. Effective August 31, 2012 – A Traffic Control Supervisor shall be present on the project whenever flagging or spotting or other traffic control labor is being utilized. Flaggers and Spotters shall be posted where shown on approved Traffic Control Plans or where directed by the Engineer. All flaggers and spotters shall possess a current flagging card issued by the State of Washington, Oregon, Montana, or Idaho. This classification is only effective on or after August 31, 2012.
- T. Effective August 31, 2012 – A Traffic Control Laborer performs the setup, maintenance and removal of all temporary traffic control devices and construction signs necessary to control vehicular, bicycle, and pedestrian traffic during construction operations. Flaggers and Spotters shall be posted where shown on approved Traffic Control Plans or where directed by the Engineer. All flaggers and spotters shall possess a current flagging card issued by the State of Washington, Oregon, Montana, or Idaho. This classification is only effective on or after August 31, 2012.
- U. Workers on hazmat projects receive additional hourly premiums as follows – Class A Suit: \$2.00, Class B Suit: \$1.50, And Class C Suit: \$1.00. Workers performing underground work receive an additional \$0.40 per hour for any and all work performed underground, including operating, servicing and repairing of equipment. The premium for underground work shall be paid for the entire shift worked. Workers who work suspended by a rope or cable receive an additional \$0.50 per hour. The premium for work suspended shall be paid for the entire shift worked. Workers who do “pioneer” work (break open a cut, build road, etc.) more than one hundred fifty (150) feet above grade elevation receive an additional \$0.50 per hour.
- V. In addition to the hourly wage and fringe benefits, the following depth and enclosure premiums shall be paid. The premiums are to be calculated for the maximum depth and distance into an enclosure that a diver reaches in a day. The premiums are to be paid one time for the day and are not used in calculating overtime pay.
- Depth premiums apply to depths of fifty feet or more. Over 50' to 100' - \$2.00 per foot for each foot over 50 feet. Over 101' to 150' - \$3.00 per foot for each foot over 101 feet. Over 151' to 220' - \$4.00 per foot for each foot over 220 feet. Over 221' - \$5.00 per foot for each foot over 221 feet.
- Enclosure premiums apply when divers enter enclosures (such as pipes or tunnels) where there is no vertical ascent and is measured by the distance travelled from the entrance. 25' to 300' - \$1.00 per foot from entrance. 300' to 600' - \$1.50 per foot beginning at 300'. Over 600' - \$2.00 per foot beginning at 600'.
- W. Meter Installers work on single phase 120/240V self-contained residential meters. The Lineman/Groundmen rates would apply to meters not fitting this description.

Note Codes Continued

8. X. Workers on hazmat projects receive additional hourly premiums as follows - Class A Suit: \$2.00, Class B Suit: \$1.50, Class C Suit: \$1.00, and Class D Suit: \$0.50. Special Shift Premium: Basic hourly rate plus \$2.00 per hour.

When due to conditions beyond the control of the Employer or when an owner (not acting as the contractor), a government agency or the contract specifications requires that work can only be performed outside the normal 5 am to 6pm shift, then the special shift premium will be applied to the basic hourly rate. When an employee works on a special shift, they shall be paid a special shift premium for each hour worked unless they are in OT or Double-time status. (For example, the special shift premium does not waive the overtime requirements for work performed on Saturday or Sunday.)

Tide Work: When employees are called out between the hours of 6:00 p.m. and 6:00 a.m. to work on tide work (work located in the tide plane) all time worked shall be at one and one-half times the hourly rate of pay.

Swinging Stage/Boatswains Chair: Employees working on a swinging state or boatswains chair or under conditions that require them to be tied off to allow their hands to be free shall receive seventy-five cents (\$0.75) per hour above the classification rate.

- Z. Workers working with supplied air on hazmat projects receive an additional \$1.00 per hour.

Special Shift Premium: Basic hourly rate plus \$2.00 per hour. When due to conditions beyond the control of the Employer or when an owner (not acting as a contractor), a government agency or the contract specifications require that more than (4) hours of a special shift can only be performed outside the normal 6 am to 6pm shift, then the special shift premium will be applied to the basic straight time for the entire shift. When an employee works on a special shift, they will be paid a special shift premium for each hour worked unless they are in overtime or double-time status. (For example, the special shift premium does not waive the overtime requirements for work performed on Saturday or Sunday.)

9. A. Workers working with supplied air on hazmat projects receive an additional \$1.00 per hour.

Special Shift Premium: Basic hourly rate plus \$2.00 per hour. When due to conditions beyond the control of the Employer or when an owner (not acting as the contractor), a government agency or the contract specifications require that more than four (4) hours of a special shift can only be performed outside the normal 6 am to 6pm shift, then the special shift premium will be applied to the basic straight time for the entire shift. When an employee works on a special shift, they shall be paid a special shift premium for each hour worked unless they are in overtime or double-time status. (For example, the special shift premium does not waive the overtime requirements for work performed on Saturday or Sunday.)

Certified Crane Operator Premium: Crane operators requiring certifications shall be paid \$0.50 per hour above their classification rate.

Boom Pay Premium: All cranes including tower shall be paid as follows based on boom length:

- (A) – 130' to 199' – \$0.50 per hour over their classification rate.
- (B) – 200' to 299' – \$0.80 per hour over their classification rate.
- (C) – 300' and over – \$1.00 per hour over their classification rate.

Note Codes Continued

9. B. The highest pressure registered on the gauge for an accumulated time of more than fifteen (15) minutes during the shift shall be used in determining the scale paid.

Tide Work: When employees are called out between the hours of 6:00 p.m. and 6:00 a.m. to work on tide work (work located in the tide plane) all time worked shall be at one and one-half times the hourly rate of pay. Swinging Stage/Boatswains Chair: Employees working on a swinging stage or boatswains chair or under conditions that require them to be tied off to allow their hands to be free shall receive seventy-five cents (\$0.75) per hour above the classification rate.

- C. Tide Work: When employees are called out between the hours of 6:00 p.m. and 6:00 a.m. to work on tide work (work located in the tide plane) all time worked shall be at one and one-half times the hourly rate of pay. Swinging Stage/Boatswains Chair: Employees working on a swinging stage or boatswains chair or under conditions that require them to be tied off to allow their hands to be free shall receive seventy-five cents (\$0.75) per hour above the classification rate.

Effective August 31, 2012 – A Traffic Control Supervisor shall be present on the project whenever flagging or spotting or other traffic control labor is being utilized. A Traffic Control Laborer performs the setup, maintenance and removal of all temporary traffic control devices and construction signs necessary to control vehicular, bicycle, and pedestrian traffic during construction operations. Flaggers and Spotters shall be posted where shown on approved Traffic Control Plans or where directed by the Engineer. All flaggers and spotters shall possess a current flagging card issued by the State of Washington, Oregon, Montana, or Idaho. These classifications are only effective on or after August 31, 2012.

- D. Industrial Painter wages are required for painting within industrial facilities such as treatment plants, pipelines, towers, dams, bridges, power generation facilities and manufacturing facilities such as chemical plants, etc., or anywhere abrasive blasting is necessary to prepare surfaces, or hazardous materials encapsulation is required.
- E. Heavy Construction includes construction, repair, alteration or additions to the production, fabrication or manufacturing portions of industrial or manufacturing plants, hydroelectric or nuclear power plants and atomic reactor construction. Workers on hazmat projects receive additional hourly premiums as follows -Level A: \$1.00, Level B: \$0.75, Level C: \$0.50, And Level D: \$0.25.
- F. Industrial Painter wages are required for painting within industrial facilities such as treatment plants, pipelines, towers, dams, power generation facilities and manufacturing facilities such as chemical plants, etc., or anywhere abrasive blasting is necessary to prepare surfaces, or hazardous materials encapsulation is required.

APPENDIX C

Construction Contract and Contract Bond-Informational Only

CONSTRUCTION CONTRACT AGREEMENT

THIS AGREEMENT, effective upon the date of mutual execution, is made and entered into between Skagit County, Washington, and _____, hereinafter called the Contractor.

WITNESSETH:

That in consideration of the terms and conditions contained herein and attached and made a part of this agreement, the parties hereto covenant and agree as follows:

- I. The Contractor shall do all work and furnish all tools, materials, equipment, and transportation required for the construction of **Northern State Recreation Area Trailhead and Park Project #RCO 18-1609** in accordance with and as described in the attached plans and specifications and the Washington State Department of Transportation *Standard Specifications for Road, Bridge, and Municipal Construction M 41-10 2022 edition*, which are by this reference incorporated herein and made a part hereof, and shall perform any changes to the work in accord with the Contract Documents.
- II. The Contractor shall provide and bear the expense of all equipment, work, and labor of any sort whatsoever that may be required for the transfer of materials and for constructing and completing the work provided for in this contract and every part thereof and shall guarantee said materials and work for a period of one year after substantial completion of this contract, except as may be modified by the plans, specifications and/or contract documents.
- III. Skagit County, Washington, hereby promises and agrees with the Contractor to retain and does retain the Contractor to provide the materials and to do and cause to be done the above-described work and to complete and finish the same according to the attached plans and specifications and the terms and conditions herein contained, and hereby contracts to pay for the same according to the attached specifications and the schedule of prices bid and hereto attached, at the time and in the manner and upon the conditions provided for in this contract.
- IV. The Contractor for himself/herself, and for his/her heirs, executors, administrators, successors, and assigns, does hereby agree to full performance of all covenants required of the Contractor in the contract.
- V. It is further provided that no liability shall attach to Skagit County by reason of entering into this contract, except as provided herein.

IN WITNESS WHEREOF the Contractor has executed this instrument on the day and year first below written, and the Authorized Official has caused this instrument to be executed by and in the name of Skagit County the day and year first above written.

CONTRACTOR

Signature _____

Mailing Address:

Printed _____

Title _____

Date _____

Telephone No. (____) ____-____

DATED this ____ day of _____, 2022.

**BOARD OF COUNTY COMMISSIONERS
SKAGIT COUNTY, WASHINGTON**

Peter Browning, Chair

Ron Wesen, Commissioner

Lisa Janicki, Commissioner

Attest:

Clerk of the Board

For contracts under \$5,000:
Authorization per Resolution R20030146

Recommended:

County Administrator

Department Head

Approved as to form:

Civil Deputy Prosecuting Attorney

Approved as to indemnification:

Risk Manager

Approved as to budget:

Budget & Finance Director

CONTRACT BOND

KNOW ALL MEN BY THESE PRESENTS, that Skagit County, a Municipal Corporation of Washington, has awarded

_____ of _____, as Principal, and _____ as Surety, are jointly and severally held and bound unto the County of Skagit in the penal sum of _____ (\$_____), dollars, for the payment of which we jointly and severally bind ourselves, our heirs, executors, administrators, and assigns, and successors and assigns, firmly by these presents.

THE CONDITION of this bond is such that whereas, on the _____ day of _____ A.D., 2022, the said Principal, herein, executed a certain contract with the County of Skagit by the items, conditions and provisions of which contract the said _____, Principal, herein agree to furnish all material and do certain work, to wit: That _____ will undertake and complete the construction of _____

Northern State Recreation Area Trailhead and Park Project #RCO 18-1609

according to the maps, plans and specifications made a part of said contract, which contract as so executed, is hereunto attached, is now referred to and by reference is incorporated herein and made a part hereof as fully for all purposes as if here set forth at length. The bond shall cover all approved change orders as if they were in the original contract.

NOW, THEREFORE, if the Principal herein shall faithfully and truly observe and comply with the terms, conditions and provisions of said contract in all respects and shall well and truly and fully do and perform all matters and things by _____ (principal) undertaken to be performed under said contract, upon the terms proposed therein, and within the time prescribed therein, and until the same is accepted, and shall pay all laborers, mechanics, subcontractors and material men, and all persons who shall supply such contractor or subcontractor with provisions and supplies for the carrying on of such work, and shall in all respects faithfully

perform said contract according to law, then this obligation to be void, otherwise to remain in full force and effect.

WITNESS our hands this _____ day of _____, 2022.

(Principal)

Attorney-in-Fact, Surety

Name and Address
Local Office of Agent

APPROVED AS TO FORM
RICH WEYRICH
Skagit County Prosecuting Attorney

APPROVED AS TO FORM
BONNIE BEDDALL
Skagit County Risk Manager

BY: _____
Approving Authority

DATE: _____, 2022

SURETY BOND NUMBER

CONTRACT NUMBER

APPENDIX D

Proposal Forms-Informational Only



Proposal For Bidding Purposes

For the Construction of:

**Northern State Recreation Trailhead and
Park Project #RCO 18-1609**



SKAGIT COUNTY
Skagit County Parks and Recreation
1730 Continental Place
Mount Vernon, WA 98273

BID PROPOSAL

NSRA Trailhead and Park
Project #RCO 18-1609

Skagit County, Washington

2022

**** ENTIRE PROPOSAL TO BE RETURNED AS YOUR BID PACKAGE ****

All bid envelopes must be plainly marked on the outside, **"Sealed Bid: NSRA Trailhead and Park Project"**

BID DUE DATE AND TIME: Monday, May 9, 2022 at 2:30 p.m.

Late and/or incomplete bids will not be considered. Oral, telephonic, telegraphic, electronic, or faxed proposals will not be accepted.

Sealed Bids will be accepted at the following location by one of the following delivery methods:

Bids May be Hand-Delivered or Mailed to:

Skagit County Commissioners Office
Attn: Reception Desk
Sealed Bid: NSRA Trailhead and Park
1800 Continental Place
Mount Vernon, WA 98273

**FAILURE TO SIGN OR COMPLETE ALL INFORMATION ON THE FORMS PROVIDED CAN RESULT IN
REJECTION OF THE PROPOSAL AS NON-RESPONSIVE**

CONDITION OF AWARD:

It is the intent of Skagit County to award a contract to the lowest responsive and responsible bidder. All terms and conditions listed in the Contract Provisions and Specifications apply to this condition.

MANDATORY BIDDER CRITERIA:

Before award, the bidder must meet the following bidder responsibility criteria to be considered a responsible bidder. The bidder may be required by Skagit County to submit documentation demonstrating compliance with the criteria. The bidder must:

1. Have a current certificate of registration as a contractor in compliance with chapter 18.27 RCW, which must have been in effect at the time of bid submittal.
2. Have a current Washington Unified Business Identifier (UBI) number.
3. Have Industrial Insurance (workers' compensation) coverage for the bidder's employees working in Washington, as required in Title 51 RCW. Not applicable to sole proprietors if the owner performs work himself/herself.
4. Have a Washington Employment Security Department number (ESD), as required in Title 50 RCW **(and, if the lowest responsive and responsible bidder, provide documentation from ESD in the form of a letter or statement within 24 hours of submitting bid);**
5. Have a Washington Department of Revenue state excise tax registration number, as required in Title 82 RCW;
6. Not be disqualified from bidding on any public works contract under RCW 39.06.010 or 39.12.065(3) and;
7. Not be excluded or suspended from bidding on any public works contract under federal laws.

SCHEDULE:

Contractor shall not commence work until notice to proceed has been given by Skagit County; this occurs after the Contract has been executed by Skagit County Board of County Commissioners.

PAYMENT:

Invoices can be submitted after work is performed. Payment is made when the Contractor has filed his/her "Intent to Pay Prevailing Wages" with the Washington State Department of Labor and Industries. Final payment is made when the Contractor has filed his/her "Affidavit of Paying Prevailing Wages".

FAILURE TO SIGN OR COMPLETE ALL INFORMATION ON THE FORMS PROVIDED CAN RESULT IN REJECTION OF THE PROPOSAL AS NON-RESPONSIVE

This certifies that the undersigned has examined the entire bid proposal and contract provisions and specifications for the:

**NSRA Trailhead and Park
Project #RCO 18-1609**

and the contract governing the work embraced in this project, and the method by which payment will be made for said work, is understood. The undersigned hereby proposes to undertake and complete the work, or as much thereof as can be completed with the money available in accordance with the said description of work and contract, and the following schedule of rates and prices. Bidder acknowledges all requirements and signed all certificates contained herein. Bidder agrees to pay labor not less than the prevailing rates of wages in accordance with the requirements of the special provisions for this project.

Please use ink, print legibly, and initial and date any changes, erasures, or cross-outs. All unit prices, when relevant, are mandatory and shall control.

THE CONTRACTOR SHALL INCLUDE FOR COMPENSATION THE AMOUNT OF ANY TAXES PAID IN THE VARIOUS UNIT BID PRICES IN ACCORDANCE WITH SECTION 1-07.2(1)						
Item No.	Section	Description	Quantity	Unit	Unit Price	Amount
1	1-09	Mobilization	1	LS		
2	2-01SP	Grubbing (0.76 Ac)	1	LS		
3	2-02	Remove Existing Sidewalk	1	LS		
4	2-02	Removal of Asphalt Pavement (73 SY)	1	LS		
5	2-02SP	Sawcut of existing Asphalt pavement	81	LF		
6	2-03	Embankment Compaction	294	CY		
7	2-03SP	Excavation of Swale	1	LS		
8	2-11	Trimming and Cleanup	1	LS		
9	2-12	Construction Geotextile	700	SY		
10	4-03SP	Gravel Borrow	677	TON		
11	4-04	Crushed Surfacing Top Course	51	TON		
12	4-04SP	Stone Sand	551	TON		
13	5-04	Asphalt Patch	11	TON		
14	5-05	Cement Conc. Pavement, 6"	85	SY		
15	7-02	CPE Culv. Pipe 24" Diam.	52	LF		
16	7-02	CPE Culv. Pipe 12" Diam.	26	LF		
17	7-02	CPE Culv. Pipe 8" Diam.	12	LF		
18	8-01	High Visibility Fencing	935	LF		
19	8-01	High Visibility Silt Fence	175	LF		
20	8-01SP	Erosion/Water Pollution Control	1	LS		
21	8-01SP	Outlet Protection	1	EA		
22	8-04	Conc Mow Strip, 6"x9"	330	LF		
23	8-04SP	Concrete Wheel Stops	2	EA		
24	8-14	Cement Conc. Sidewalk/Pad, Finish "A"	360	SY		
25	03-35-33	Cement Concrete Sidewalk, Finish "B"	294	SY		
26	8-21	Perm. Signs, ADA/Van w/posts (2)	1	LS		

27	8-22	Pavement Markings and Striping	1	LS		
28	8-24SP	Gravity Rock Wall	60	LF		
29	8-26SP	Round Post Fence	392	LF		
30	8-27SP	Unanticipated Site Work (Force Account)	Est	DOL	1	29,500
31	8-28SP	Bollard, Type 2	2	EA		
32	8-30SP	Hog Fuel Path	49	CY		
33	8-31SP	Temporary Construction Fencing	1	LS		
34	N/A	Paver Areas A & B	825	SF		
		Subtotal Surfacing				

Item No.	Section	Description	Quantity	Unit	Unit Price	Amount
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STRUCTURES AND AMENITIES

35	03-35-19	Cast Curved Wall with Seating Bench	8	EA		
36	03-35-19	Cast Curved Wall with sleeves for sign	4	EA		
37	04-43-00	Concrete Columns with Stone Veneer	4	EA		
38	04-43-00	Concrete sign base with Stone Veneer	2	EA		
39	9-03	Washed Drain Rock on Geotextile (at base of walls)	6	CY		
40	N/A	Medallions	6	EA		
41	N/A	Nameplate Signs	4	EA		
42	N/A	Interpretive Sign Frame	2	EA		
43	N/A	Picnic Table	4	EA		
44	12-93-00	Park Bench	3	EA		
45	12-93-00	Plaza Bench A	6	EA		
46	12-93-00	Plaza Bench B	2	EA		
47	12-93-00	Flagpole and Flag-25	8	EA		
48	12-93-00	Flagpole and Flag-35	1	EA		
49	12-93-00	Bike Rack	1	EA		
50	12-93-00	Hitch Post	1	EA		
51	12-93-00	BBQ1	1	EA		
52	12-93-00	BBQ2	3	EA		
		Subtotal Structures and Amenities				

Item No.	Section	Description	Quantity	Unit	Unit Price	Amount
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LANDSCAPE

53	32-93-00	Trees	20	EA		
54	32-93-00	Bed Shrubs	153	EA		
55	32-93-00	Perennials	120	EA		
56	32-93-00	Groundcover	281	SF		
57	32-93-00	Hand Seeding	4,900	SY		
58	32-93-00	Sod	3,000	SF		
59	32-93-00	Topsoil Type A	161	CY		
60	32-93-00	Topsoil-Type B	121	CY		
61	32-93-00	Mulch	15	CY		
62	32-93-00	Irrigation System	1	LS		
63	N/A	Steel Edging	120	LF		
		Subtotal Landscape				

Item No.	Section	Description	Quantity	Unit	Unit Price	Amount
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SITE UTILITIES

64	N/A	Power to flag lights, outdoor receptacles, irrigation controller, & RV Pad w/ Riser	1	LS		
65	N/A	Up-lights for flag	3	EA		
66	7-09	2" Water Service	1	LS		
67	N/A	Sanitary Yard Hydrant, supply and install	2	EA		
68	7-18SP	Sewer Service to RV pad	1	LS		
		Subtotal Site Utilities				

FAILURE TO SIGN OR COMPLETE ALL INFORMATION ON THE FORMS PROVIDED CAN RESULT IN
REJECTION OF THE PROPOSAL AS NON-RESPONSIVE

Project NSRA Trailhead and Park

Date _____

Construction in 2022 is predicated on obtaining funding and all applicable permits to allow construction in the allowable work period specified in this contract. Bid and unit prices shall be binding for the duration of the contract.

<u>COST ELEMENT</u>	<u>AMOUNT</u>
SUBTOTAL SURFACING	<input type="text"/>
SUBTOTAL STRUCTURES & AMMENITIES	<input type="text"/>
SUBTOTAL LANDSCAPE	<input type="text"/>
SUBTOTAL SITE UTILITIES	<input type="text"/>
GRAND TOTAL BID	<input type="text"/>

PROPOSAL – Signature Page

The bidder is hereby advised that by signature of this proposal he/she is deemed to have acknowledged all requirements and signed all certificates contained herein.

The undersigned hereby agrees to pay labor not less than the prevailing rates of wages in accordance with the requirements of the special provisions for this project.

A proposal guaranty in an amount, which is equal to five percent (5%) of the estimated bid amount, based upon the approximate estimate of above prices and in the form as indicated below is attached hereto:

- ☐ CASHIER'S CHECK In the amount of \$ _____ Dollars
- ☐ CERTIFIED CHECK In the amount of \$ _____ Dollars
(Payable to Skagit County)
- ☐ PROPOSAL BOND In the amount of five percent (5%) of the total estimated bid.

If addendums have been issued:

Receipt is hereby acknowledged of Addendum(s) No.(s) _____

**S
I
G
N**

Signature of Authorized Official(s):

Firm Name:

Address:

Phone No.

State of Washington Contractor's License No. _____

UBI No. _____ Employment Security Department No. _____

Note:

- (1) This proposal form is not transferable and any alteration of the firm's name entered hereon without prior permission from Skagit County will be cause for considering the proposal irregular and subsequent rejection of the bid.
- (2) Please refer to Section 1-02.6 of the Standard Specifications, "Preparation of Proposal", or "Article 4" of the Instruction to Bidders for building construction jobs.

**FAILURE TO SIGN OR COMPLETE ALL INFORMATION ON THE FORMS PROVIDED CAN RESULT IN
REJECTION OF THE PROPOSAL AS NON-RESPONSIVE**

NON-COLLUSION DECLARATION

I, by signing the proposal on page 6, 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 have agreed to the provisions of this declaration.

NOTICE TO ALL BIDDERS

To report bid 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 Standard 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 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.

MUST ACCOMPANY EACH BID

FAILURE TO SIGN OR COMPLETE ALL INFORMATION ON THE FORMS PROVIDED CAN RESULT IN REJECTION OF THE PROPOSAL AS NON-RESPONSIVE

NON-DISBARMENT CERTIFICATION

Are you on Comptroller General's list of Ineligible Contractors or list of parties excluded from Federal procurement or non-procurement programs? ☐ NO ☐ YES

Company Name: _____

Type of Business ☐ Corporation ☐ Partnership (general) ☐ Partnership (limited)
☐ Sole Proprietorship ☐ Limited Liability Company

FID #: _____

Company Address: _____

The County/State/Zip: _____

Phone: _____ Fax: _____

E-Mail: _____

Print Name of Signatory: _____

Print Title of Signatory: _____

MUST ACCOMPANY EACH BID

**FAILURE TO SIGN OR COMPLETE ALL INFORMATION ON THE FORMS PROVIDED CAN RESULT IN
REJECTION OF THE PROPOSAL AS NON-RESPONSIVE**

**SUBMIT THE
ENCLOSED PROPOSAL
BOND FORM WITH
YOUR PROPOSAL**

**USE OF OTHER FORMS
MAY SUBJECT YOUR
BID TO REJECTION**

PROPOSAL BOND

KNOW ALL MEN BY THESE PRESENTS, That we, _____

_____ of

_____ as principal, and the

_____ a corporation duly

organized under the laws of the State of _____,
and authorized to do business in the State of Washington, as surety, are held and firmly bound unto
Skagit County in the full and penal sum of five (5) percent of the total amount of the bid proposal of said
principal for the work hereinafter described for the payment of which, well and truly to be made, we bind
our heirs, executors, administrators and assigns, and successors and assigns, firmly by these presents.

The condition of this bond is such, that whereas the principal herein is herewith submitting his or
its sealed proposal for the following construction, to wit:

NSRA Trailhead and Park, Project #RCO 18-1609

said bid and proposal, by reference thereto, being made a part hereof.

NOW THEREFORE, If the said proposal bid by said principal be accepted, and the contract be
awarded to said principal, and if said principal shall duly make and enter into and execute said contract
and shall furnish bond as required by Skagit County within a period of ten (10) days from and after said
award, exclusive of the day of such award, then this obligation shall be null and void, otherwise it shall
remain and be in full force and effect.

IN TESTIMONY WHEREOF, the principal and surety have caused these presents to be signed
and sealed this _____ day of _____, 2022.

(Principal)

(Surety)

(Attorney-in-fact)



Certification of Compliance with Wage Payment Statutes

The bidder hereby certifies that, within the three-year period immediately preceding the bid solicitation date (April 14, 2022), 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 Official*

Printed Name

Title

Date

City

State

Check One:

Sole Proprietorship ☐ Partnership ☐ Joint Venture ☐ Corporation ☐

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, 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). If a co-partnership, proposal must be executed by a partner.*

BIDDER'S QUALIFICATION CERTIFICATE

The undersigned hereby certifies and submits the following qualifications:

1. Name and Address _____

2. Washington Registration No. Expires: _____ / _____ / _____ (M/D/Y)

3. Number of years in contracting business under present name: _____ years

4. Particular types of construction work performed by your company:

5. List and provide a brief summary of several recent construction projects performed that meet the **SUPPLEMENTAL RESPONSIBLE BIDDER CRITERIA** as specified in this contract:

Project 1 Name: _____

Contractor project manager name and phone number: _____

Owner name and phone number: _____

Owner's project manager name and phone number: _____

Description of project and how project meets Supplemental Responsible Bidder

Criteria: _____

Initial contract value: _____

Final contract value: _____

Initial contract time: _____ to _____

Final contract time: _____ to _____

Hydraulic Project Approval Permit Number: _____

Project 2 Name: _____

Contractor project manager name and phone number: _____

Owner name and phone number: _____

Owner's project manager name and phone number: _____

Description of project and how project meets Supplemental Responsible Bidder Criteria: _____

Initial contract value: _____

Final contract value: _____

Initial contract time: _____ to _____

Final contract time: _____ to _____

Hydraulic Project Approval Permit Number: _____

Project 3 Name: _____

Contractor project manager name and phone number: _____

Owner name and phone number: _____

Owner's project manager name and phone number: _____

Description of project and how project meets Supplemental Responsible Bidder Criteria: _____

Initial contract value: _____

Final contract value: _____

Initial contract time: _____ to _____

Final contract time: _____ to _____

Hydraulic Project Approval Permit Number: _____

Project 4 Name: _____

Contractor project manager name and phone number: _____

Owner name and phone number: _____

Owner's project manager name and phone number: _____

Description of project and how project meets Supplemental Responsible Bidder

Criteria: _____

Initial contract value: _____

Final contract value: _____

Initial contract time: _____ to _____

Final contract time: _____ to _____

Hydraulic Project Approval Permit Number: _____

Project 5 Name: _____

Contractor project manager name and phone number: _____

Owner name and phone number: _____

Owner's project manager name and phone number: _____

Description of project and how project meets Supplemental Responsible Bidder Criteria: _____

Initial contract value: _____

Final contract value: _____

Initial contract time: _____ to _____

Final contract time: _____ to _____

Hydraulic Project Approval Permit Number: _____

6. Gross amount of contracts now in hand \$ _____

7. Bank Reference(s):

Name	Address	Account No.	Type
------	---------	-------------	------

a. _____

b. _____

By: _____

Title: _____

(Authorized Signature)

8. Litigation Background (all projects in past 5 years resulting in partial or final settlement of the contract by arbitration or litigation in the courts):

Client	Contract Amount	Total \$ claims	Settlement \$
--------	-----------------	-----------------	---------------

a. _____

b. _____

9. Choose one of the following:

- ☐ Bidder has Industrial Insurance coverage for employees working in Washington as required in Title 51 RCW; or
- ☐ Bidder is not required to have Industrial Insurance coverage as required in Title 512 RCW.

10. Choose one of the following:

- ☐ Bidder's Washington Employment Security Department registration number is _____; or
- ☐ Bidder is not required to register with the Washington Employment Security Department pursuant to Title 50 RCW.

11. Choose one of the following:

- ☐ Bidder's Washington State Department of Revenue registration number is: _____; or
- ☐ Bidder is not required to register with the Washington State Department of Revenue pursuant to Title 82 RCW.

I am the _____ (title) of Bidder, have authority to bind Bidder, am over the age of 18, and have personal knowledge of the facts set forth above.

Dated this _____ day of _____, 2022, at _____ (city),
_____ (state).

Signature _____

Print Name _____

Title _____

End of Bidder's Qualification Certificate

APPENDIX E

Permits



Skagit County Planning & Development Services

1800 Continental Place ♦ Mount Vernon, WA 98273

360- 416-1320 ♦ pds@co.skagit.wa.us ♦ www.skagitcounty.net/planning

Grading Permit #: BP21-0396

Status: Issued

Issue date: 06/23/2021

Expire date: 06/22/2024

Renewal Expire date:

Description of work:

Site prep for Veterans' Plaza, walkways & ADA path

Job address: 25625 Helmick Road SW

Location: 25625 Helmick Rd

Parcel No: p39265

P100603

P100648

P38653

P39252

Applicant: Skagit County Parks & Recreation

1800 Continental Place
Mount Vernon WA 98273

Owner: SKAGIT COUNTY

1800 CONTINENTAL PL
MOUNT VERNON WA 98273

Contractor: Applicant

0

Greater quantity of cut or fill: , cubic yards

Fee Summary:

Description	Tot Fee	Paid
Stormwater Review	6,556.00	.00
Fill & Grade Permits	74.59	.00
Fill & Grade Plan Check	48.48	.00

Total fees: \$6,679.07

Total payments: \$0.00

Balance due: \$6,679.07

The permittee shall notify the building official when the grading operation is ready for final inspection. Final approval shall not be given until all work, including installation of all drainage facilities and their protective devices, and all erosion-control measures have been completed in accordance with the final approved grading plan, and the required reports have been submitted." UBC 3318.2.

I hereby certify that I am the owner, or I am an authorized representative of the owner, of the property for which this permit is issued.

This permit will expire three years from the date of issuance.

Owner/agent: _____ Date: _____

Department agent: Blue _____ Date: 6/28/21

inspection or approval for occupancy. Requests concerning alternatives or exemptions should be directed to a stormwater review technician at Skagit County Planning & Development Services. 360.416.1320

- 10 Once all grading has been completed, all exposed soils must be revegetated within 30 days. Call 360-416-1330 for final inspection.

Permit #: BP21-0396

Applicant: Skagit County Parks & Recreation
Continental Place
Mount Vernon WA

1800

Additional requirements:

I have read and understand the conditions for this project.

Signature



APPENDIX F

Construction Stormwater Pollution Prevention Plan (CSWPPP)



SEMRAU ENGINEERING & SURVEYING, P.L.L.C.

Construction Stormwater Pollution Prevention Plan

For

Northern State Recreation Area Veterans Plaza and Trail Project P438653 & P39265

Skagit County Parks and Recreation
1730 Continental Place
Bow, WA 98232
(360) 421-1063

SES Job No: 5867

Date	Version
March 31, 2022	Update Construction dwgs
June 3, 2021	Resubmittal
April 29, 2021	First submittal

Prepared For:

Washington State Department of Ecology
Northwest Regional Office
3190 - 160th Avenue SE
Bellevue, WA 98008-5452
425-649-7000

Prepared By:

Bryant R. Moore PE, CESCL ID#ECO-3-7122008
Semrau Engineering and Surveying, PLLC

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Introduction

This Construction Stormwater Pollution Prevention Plan is for improvements to the Northern State Recreation Area Veterans Park in Skagit County, WA. The project is located across two rural parcels east of Sedro-Woolley, WA. Zoning is Urban Reserve-Public Open Space (URP-OS). Skagit County Parks & Recreation is proposing the addition of new gravel walking paths, improved concrete sidewalk, picnic tables on concrete pads, and a Memorial wall with surrounding concrete walk, landscaping, lawn, and ADA parking. The total disturbance will be approximately 21,800 square feet.

Construction activities for the project will include 1) excavation and grading, and 2) gravel paving, 3) landscaping, and 4) removal of temporary erosion and sediment control devices once vegetative cover is established.

The purpose of the SWPPP is to describe the proposed construction activities and all temporary and permanent erosion and sediment control [TESC] measures, pollution prevention measures, inspection/monitoring activities, and recordkeeping that will be implemented during a maintenance and/or construction project. The objectives of the SWPPP are to:

1. Implement Best Management Practices [BMPs] to prevent erosion and sedimentation, and to identify, reduce, eliminate or prevent stormwater contamination and water pollution from construction activity.
2. Prevent violations of surface water quality, ground water quality, or sediment management standards.
3. Prevent adverse water quality impacts including impacts on beneficial uses of the receiving water by controlling peak flow rates and volumes of stormwater runoff.

This Construction SWPPP was prepared based on the requirements set forth in the 2019 Stormwater Management Manual for Western Washington.

Site Description

The site is a Skagit County Parks and Recreation area with an existing Pavilion, bathroom structure, asphalt parking, and walking paths. Access to the project site is from a driveway off of Helmick Road. The total area of Basins 1 & 2 is over 116.5 Ac (which are only a fraction of the Total area of the recreational area), which is utilized for walking trails, frisbee golf, and horseback riding. The majority of the site is undeveloped, being in a state of native vegetation and pasture grass.

Existing Conditions

The site drains two different Threshold discharge areas. Basin 2 flows south and then west into Hansen Creek. Basin 1 flows east and south through a 12" dia CPE with flap gate, south via a roadside ditch to State Route 20. It then flows west along the north side of SR 20 then quickly passes under the highway to the southside ditch of SR20. From here it flows east and into Red Creek, which then flows

southwest to empty into Hansen Creek. There are no channels on-site and the site does not drain onto adjoining lots.

Site Soils

A web soil survey was done on the USDA Natural Resources Conservation Service website including soil map and data for the project site. The majority of the site work area consists of Samish Silt Loam with 0 to 3 percent slopes. Hydrologic group for Samish Silt Loam is group C/D. This soil is somewhat poorly drained and consists of Alluvium derived from phyllite and talc. The information for the remaining soils in the basins can be found in Appendix D.

Proposed Construction Activities

Stormwater from development will meet the requirements of the 2019 DOE SWMM manual. For Basin #1, Minimum Requirements 1 through 9 apply. For Basin #2, Min. Req. #1-5 apply.

Construction activities may include:

- Stake the construction limits and install BMPs, if necessary.

- If needed, excavated unsuitable base material where proposed structures will be placed. Proof-roll the base material.

- Landscape and mulch all disturbed areas.

- After vegetation has been reestablished, remove temporary erosion and sedimentation control measures.

Construction Stormwater BMPs

The 13 BMP Elements

Element #1 – Mark Clearing Limits

To protect adjacent properties and to reduce the area of soil exposed to construction, the limits of construction will be clearly marked before land-disturbing activities begin. All sensitive areas and their buffers, shall be clearly delineated, both in the field and on the plans. In general, natural vegetation and native topsoil shall be retained in an undisturbed state to the maximum extent possible. The BMPs relevant to marking the clearing limits that will be applied may include:

- Preserve natural vegetation when possible (BMP C101) and leave a buffer zone (BMP C102).

- Strip and stockpile existing topsoil and cover (BMP C123) to prevent erosion.

If a minimum of 25 feet of natural vegetation does not exist, then install one of these 2 BMPs.

- Install Silt Fence (BMP C233) per WSDOT Standard Plan I-30.15-

Install wattles (BMP C235) per WSDOT Standard Plan I-30.30-

Element #2 – Establish Construction Access

Construction access or activities occurring on unpaved areas shall be minimized. Limit construction vehicle access and exit to the establish entrance/exit. Where necessary, access points shall be stabilized to minimize the tracking of sediment onto public roads.

The specific BMPs related to establishing construction access to be used may include:

- BMP C105.-Stabilized Construction entrance/Exit. As necessary, clean public roads thoroughly if sediment is tracked off-site.

Element #3 – Control Flow Rates

Flow control is not required for this development, as all new hard surfaces are considered fully dispersed per BMP T5.30-Full Dispersion.

Element #4 – Install Sediment Controls

All stormwater runoff from disturbed areas shall disperse into native vegetation. The specific BMPs to be used for controlling sediment may include:

Silt fence and/or straw wattles installed around the building footprint.

Maintenance of silt fencing and straw wattles throughout the construction period until vegetation has been reestablished.

Maintenance of vegetative buffers.

Element #5 – Stabilize Soils

Exposed and unworked soils shall be stabilized with the application of effective BMPs to prevent erosion throughout the life of the construction project. The specific BMPs for soil stabilization that may be used include:

Scheduled construction activities will be between June 1st and the end of October.

No soils can remain exposed for more than 2 days from October 1 to April 30 or longer than 7 days the rest of the year.

Exposed soils that will be unworked for more than 7 days shall be protected from erosion forces.

Disturbed soils will be covered by the gravel driveway, building pads, and/or mulch.

Temporary mulching (BMP C121) and/or plastic sheeting (BMP C123) to be used for soil protection.

Element #6 – Protect Slopes

There are no planned cut slopes in the project. Any work on slopes will be designed, constructed, and protected in a manner than minimizes erosion. The following specific BMPs may be used to protect slopes:

- Replace topsoil on the backslope from stockpiles.
- Temporary and Permanent Seeding
- Nets and Blankets

Element #7 – Protection Drain Inlets

The driveway culvert, the culverts made operable during construction of the new walking path, and the parking lot grated inlet shall be protected to prevent unfiltered or untreated water from entering the drainage conveyance system. The first priority is to keep all access roads clean of sediment and keep street wash water separate from entering storm drains until treatment can be provided. The following inlet protection measure may be applied:

- Culvert inlet sediment trap
- Storm drain inlet protect

Element #8 – Stabilize Channels and Outlets

There are no onsite channels. The new culverts brought online during construction and the existing outlet between Basin 1 and the road ditch at Helmick should be protected using Outlet protecting means.

Element #9 – Control Pollutants

All pollutants, including waste materials and demolition debris, that occur onsite shall be handled and disposed of in a manner that does not cause contamination of water, stormwater or groundwater. Good housekeeping and preventative measures will be taken to ensure that the site will be kept clean, well-organized, and free of debris. Appropriate construction BMPs will be used for concrete handling, Saw cutting, and concrete washout. If required, BMPs to be implemented to control specific sources of pollutants are discussed below.

Vehicles, construction equipment, and/or petroleum product storage/dispensing:

- All vehicles, equipment, and petroleum product storage/dispensing areas will be inspected regularly to detect any leaks or spills, and to identify maintenance needs to prevent leaks or spills.

- Spill prevention measures, such as drip pans, will be used when conducting maintenance and repair of vehicles or equipment.

- In order to perform emergency repairs on site, temporary plastic will be placed beneath and, if raining, over the vehicle.

Contaminated surfaces shall be cleaned immediately following any discharge or spill incident.

Element #10 – Control Dewatering

There is no proposed dewatering as part of construction activities on the project site.

Element #11 – Maintain BMPs

All temporary and permanent erosion and sediment control BMPs shall be maintained and repaired as needed to assure continued performance of their intended function. Maintenance and repair shall be conducted in accordance with each particular BMP specification. Visual monitoring of the BMPs will be conducted at least once every calendar week and within 24 hours of any stormwater or non-stormwater discharge from the site.

All temporary erosion and sediment control BMPs shall be removed within 30 days after the final site stabilization is achieved or after the temporary BMPs are no longer needed. Trapped sediment shall be removed or stabilized on site. Disturbed soil resulting from removal of BMPs or vegetation shall be permanently stabilized.

Element #12 – Manage the Project

Erosion and sediment control BMPs for this project have been designed based on the following principles:

- Design the project to fit the existing topography, soils, and drainage patterns.

- Schedule major earthwork during the dry season.

- Schedule work in stages.

- Plan and monitor the project to provide for changes in the erosion and sediment control BMPs whenever there is a change in design, construction, operation, or maintenance at the construction site that has or could have a significant effect on the discharge of pollutants to waters of the state.

- Emphasize erosion control rather than sediment control.

- Minimize the extent and duration of the area exposed.

- Keep runoff velocities low.

- Retain sediment on site.

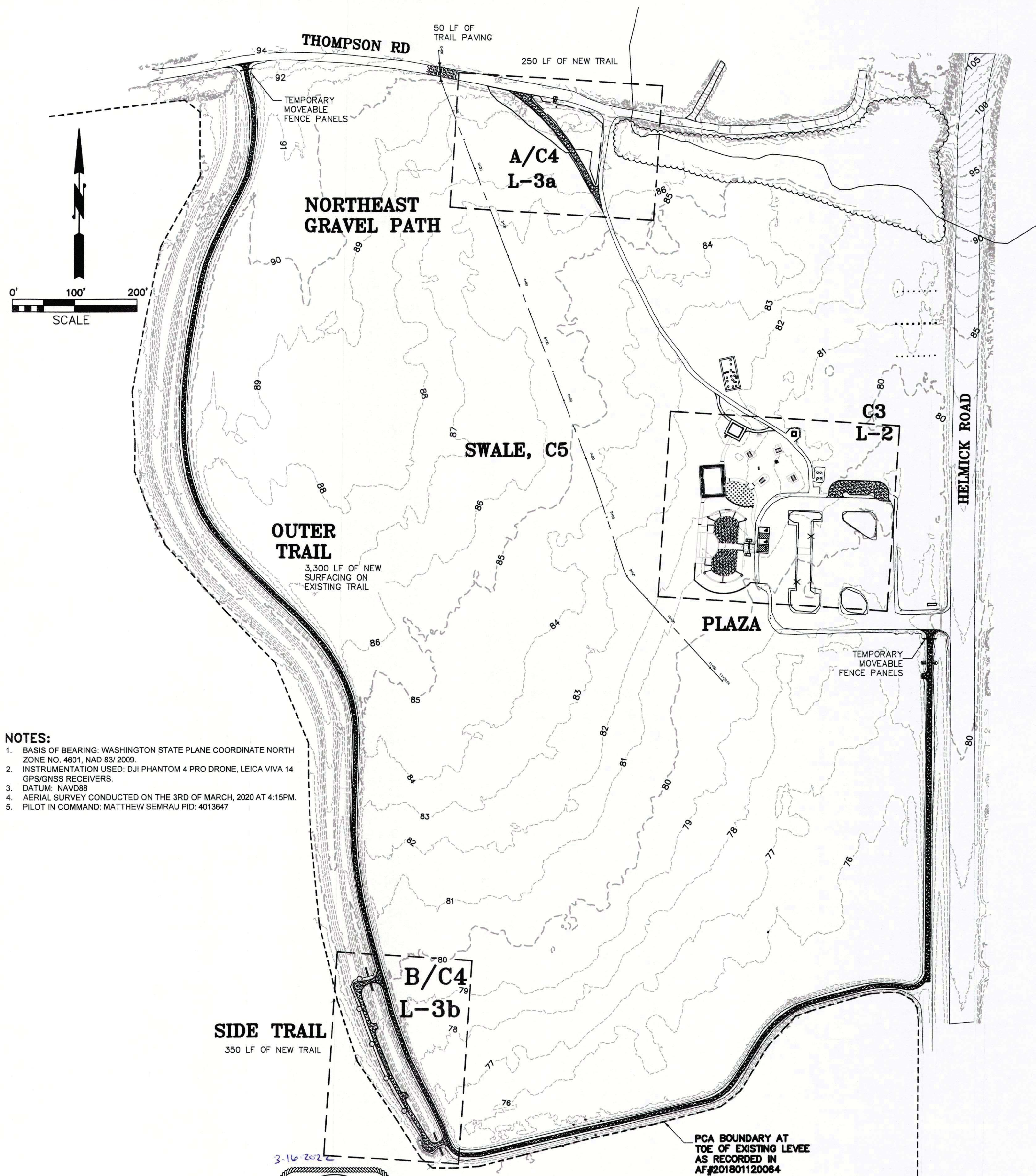
- Thoroughly monitor site and maintain all ESC measures.

Element #13 – Protect Low Impact Development BMPs

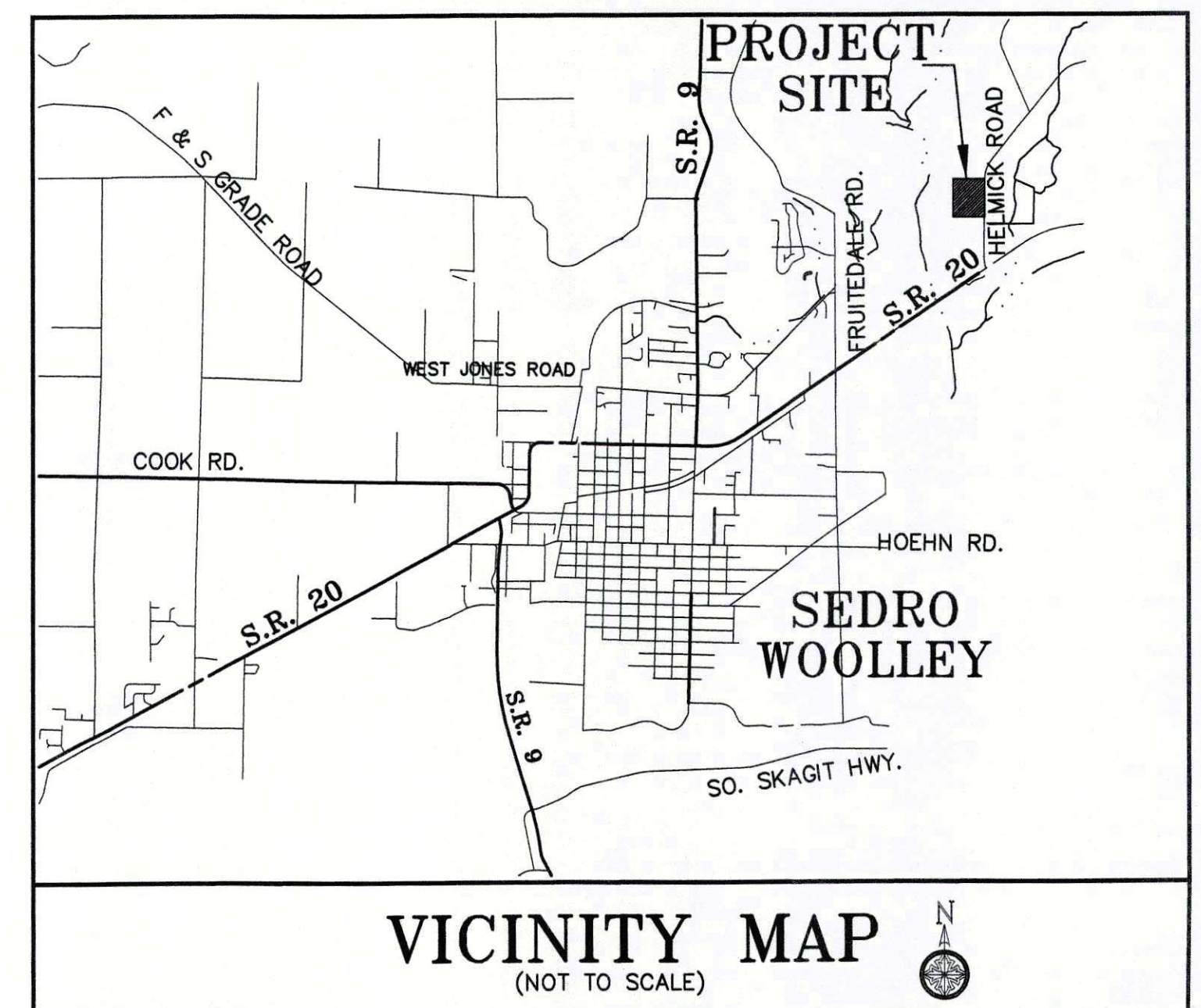
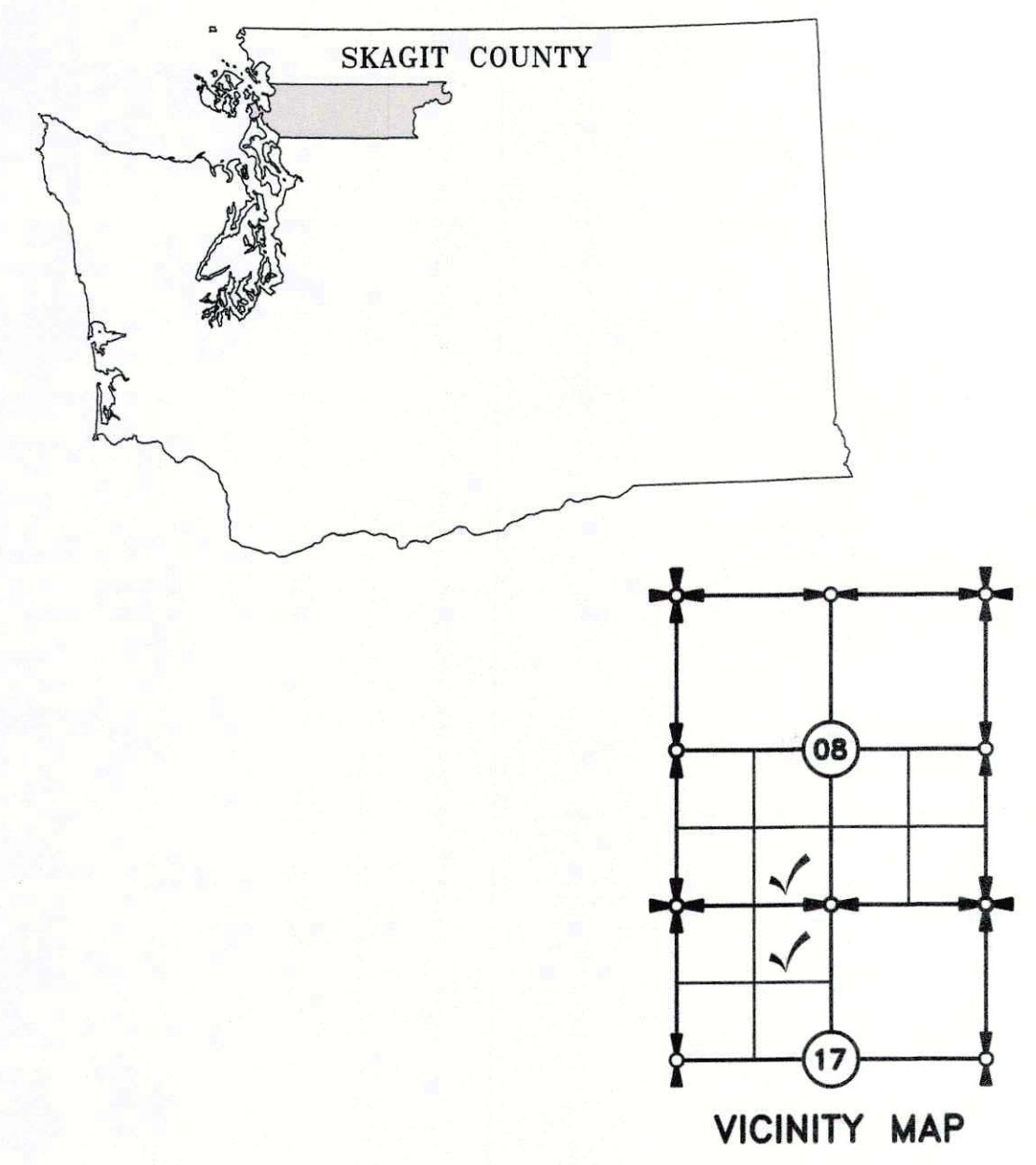
No LID measures were employed on the project.

APPENDIX C

CONSTRUCTION PLANS



NOTES:
1. BASIS OF BEARING: WASHINGTON STATE PLANE COORDINATE NORTH ZONE NO. 4601, NAD 83/2008.
2. INSTRUMENTATION USED: DJI PHANTOM 4 PRO DRONE, LEICA VIVA 14 GPS/GNSS RECEIVERS.
3. DATUM: NAVD88
4. AERIAL SURVEY CONDUCTED ON THE 3RD OF MARCH, 2020 AT 4:15PM.
5. PILOT IN COMMAND: MATTHEW SEMRAU PID: 4013647



PROJECT DATA:
JURISDICTION: SKAGIT COUNTY
PROJECT ADDRESS: 25749 HELMICK ROAD
SEDRO-WOOLLEY, WA 98283
TAX PARCEL NOS. P38653, P39265

CONTACTS:
PUGET SOUND ENERGY
1600 PARK LANE
BURLINGTON, WA 98233
CONTACT: STEVE GATES
TEL: (360) 766-5496

OWNER
**SKAGIT COUNTY
PARKS AND RECREATION**
1730 CONTINENTAL PLACE
MOUNT VERNON, WA 98273
CONTACT: BRIAN ADAMS, DIRECTOR
(360) 416-1350

FRONTIER
595 PEASE ROAD
BURLINGTON, WA 98233
CONTACT: BRIAN SMITH
TEL: (360) 707-0641

VERIZON
595 PEASE ROAD
BURLINGTON, WA 98233
CONTACT: MARK HEHN
TEL: (360) 707-0641

SKAGIT COUNTY
1800 CONTINENTAL PLACE
MT. VERNON, WA 98273
CONTACT: SHAWN CHRISTENSEN
TEL: (360) 416-1327

CASCADE NATURAL GAS
1520 SOUTH 2ND STREET
MOUNT VERNON, WA 98273
CONTACT: JAMES HOBBS, JR., PE
TEL: (360) 336-3876

SKAGIT PUD
1415 FREEWAY DRIVE
MT. VERNON, WA 98273
CONTACT: MICHAEL DEMERS
TEL: (360) 848-2157

LANDSCAPE ARCHITECT

ECCOS DESIGN
505 SOUTH 1ST STREET SUITE B
MOUNT VERNON, WA 98273
CONTACT: PATRIK DYLAN, PLA
(360) 419-7400

ENGINEER/SURVEYOR

SEMRAU ENGINEERING & SURVEYING
2118 RIVERSIDE DRIVE SUITE 208
MOUNT VERNON, WA 98273
CONTACT: JOHN B. SEMRAU PE, PLS
BRYANT R. MOORE PE
TEL: (360) 424-9566

ELECTRICAL

K ENGINEERS, INC.
208 3RD STREET
LYNDEN, WA 98264
CONTACT: STEVE TEVELDE, P.E.
TEL: (360) 354-4757, EXT. 201

PLAN CONTENTS

SHEET NO.	DRAWING TITLE
C1	COVER SHEET & TOPOGRAPHIC SURVEY
C2	TESCP PLAN, NOTES & DETAILS
C2B	DEMO PLAN
C3	GRADING/SITE PLAN
C4	GRADING/SITE PLAN
C5	SWALE PLAN & SECTIONS
C6	NOTES & DETAILS
L1	SITE PLAN
L2	PLAZA LAYOUT
L3	WALL DETAILS
L4	SIGN AND SEAT DETAILS
L5	SIGN FRAME DETAILS
L6	CONCRETE AND SITE DETAILS
L7	TABLE DETAILS
L8	BENCH AND FLAG DETAILS
L9	RACKS, HITCH, FENCE AND BBQ
LP1	PLANTING PLAN
LP2	PLANTING DETAILS
IR1	IRRIGATION PLAN
IR2	IRRIGATION DETAILS
E-1	ELECTRICAL SITE PLAN
E-2	ELECTRICAL RISER DIAGRAM & SCHEDULES
E-3	ELECTRICAL SPECIFICATIONS

SEMRAU ENGINEERING & SURVEYING
Civil Engineering • Land Surveying • Planning

NO.	DATE	REVISION	BY	REV.

**COVER SHEET &
TOPOGRAPHIC SURVEY**

SCALES:
HORIZONTAL : 1" = 100'
VERTICAL : N/A
NOTE: IF THIS SHEET IS LESS THAN 22"x 34" THEN SHEET HAS BEEN REDUCED

**VETERANS COMMUNITY PARK
& MEMORIAL WALL**
SECTIONS 8 & 17, T. 34N., R. 5E., W.M.
JURISDICTION, WASHINGTON

FIELD BK/PG:	324/6-9
DATE:	3/16/22
DRAWING:	5867CS.DWG
JOB NO.:	5867
SHEET:	C1



ESC-1 STANDARD ESC NOTES

1. EROSION CONTROL METHODS AND MATERIALS SHALL MEET REQUIREMENTS OF SECTION 8-01 OF THE APWA/WASHINGTON STATE DEPARTMENT OF TRANSPORTATION 2018 STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION, AND REQUIREMENTS SET FORTH IN VOLUME II OF THE "STORMWATER MANAGEMENT MANUAL FOR WESTERN WASHINGTON (THE TECHNICAL MANUAL)", BY THE WASHINGTON STATE DEPARTMENT OF ECOLOGY, CURRENT EDITION. THE CONTRACTOR SHALL FOLLOW RECOMMENDATIONS MADE BY SUPPLIERS AND MANUFACTURERS OF MATERIALS AND EQUIPMENT USED.
2. THE ESC FACILITIES SHOWN ON THIS PLAN MUST BE CONSTRUCTED IN SUCH A MANNER AS TO ENSURE THAT SEDIMENT-LADEN WATER DOES NOT ENTER THE DRAINAGE SYSTEM OR VIOLATE APPLICABLE WATER STANDARDS, AND MUST BE INSTALLED AND IN OPERATION PRIOR TO ANY GRADING OR CONSTRUCTION. WHEREVER POSSIBLE, MAINTAIN NATURAL VEGETATION FOR SILT CONTROL.
3. THE ESC FACILITIES SHOWN ON THIS PLAN ARE THE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS. DURING THE CONSTRUCTION PERIOD, THESE ESC FACILITIES SHALL BE UPGRADED (E.G., ADDITIONAL PUMPS, RELOCATION OF DITCHES AND SILT FENCES, ETC.) AS NEEDED FOR UNEXPECTED STORM EVENTS. ADDITIONALLY, MORE ESC FACILITIES MAY BE REQUIRED TO ENSURE COMPLETE SILTATION CONTROL. THEREFORE, DURING THE COURSE OF CONSTRUCTION, IT SHALL BE THE OBLIGATION AND RESPONSIBILITY OF THE CONTRACTOR TO ADDRESS ANY NEW CONDITIONS THAT MAY BE CREATED BY HIS ACTIVITIES AND TO PROVIDE ADDITIONAL FACILITIES OVER AND ABOVE THE MINIMUM REQUIREMENTS AS MAY BE NEEDED.
4. WHERE SEEDING FOR TEMPORARY EROSION CONTROL IS REQUIRED, FAST GERMINATING GRASSES SHALL BE APPLIED AT AN APPROPRIATE RATE (EXAMPLE: ANNUAL OR PERENNIAL RYE APPLIED AT APPROXIMATELY 80 POUNDS PER ACRE).
5. WHERE STRAW MULCH IS REQUIRED FOR TEMPORARY EROSION CONTROL, IT SHALL BE APPLIED AT A MINIMUM THICKNESS OF TWO (2) INCHES.
6. THE ESC FACILITIES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE DETAILS ON THE APPROVED PLANS. LOCATIONS MAY BE MOVED TO SUIT FIELD CONDITIONS, SUBJECT TO APPROVAL BY THE DISTRICT.
7. A COPY OF THE APPROVED EROSION CONTROL PLANS MUST BE ON THE JOB SITE WHENEVER CONSTRUCTION IS IN PROGRESS.
8. OFF-SITE STREETS MUST BE KEPT CLEAN AT ALL TIMES. IF DIRT IS DEPOSITED ON THE PUBLIC STREET SYSTEM, THE STREET SHALL BE IMMEDIATELY CLEANED WITH POWER SWEEPER OR OTHER EQUIPMENT. ALL VEHICLES SHALL LEAVE THE SITE BY WAY OF THE CONSTRUCTION ENTRANCE AND SHALL BE CLEANED OF ALL DIRT THAT WOULD BE DEPOSITED ON THE PUBLIC STREETS.
9. IF ANY PART (S) OF THE CONSTRUCT LIMIT, BOUNDARY OR TEMPORARY EROSION/SEDIMENTATION CONTROL PLAN IS/ARE DAMAGED, IT SHALL BE REPAIRED IMMEDIATELY.
10. ALL PROPERTIES ADJACENT TO THE PROJECT SITE SHALL BE PROTECTED FROM SEDIMENT DEPOSITION AND RUNOFF.DO NOT FLUSH CONCRETE BY-PRODUCTS OR TRUCKS NEAR OR INTO THE STORM DRAINAGE SYSTEM. IF EXPOSED AGGREGATE IS FLUSHED INTO THE STORM SYSTEM, IT COULD MEAN RECLEANING THE ENTIRE DOWNSTREAM STORM SYSTEM, OR POSSIBLY RELAYING THE STORM LINE.
11. THE IMPLEMENTATION OF THESE ESC PLANS AND THE CONSTRUCTION, MAINTENANCE, REPLACEMENT, AND UPGRADE OF THESE FACILITIES IS THE RESPONSIBILITY OF THE CONTRACTOR UNTIL ALL CONSTRUCTION IS APPROVED.
12. THE ESC SUPERVISORS NAME IS: BRYANT MOORE, 24 HR. CONTACT NUMBER: (360) 707-8641.
13. THE APPLICANT'S NAME IS : BRIAN ADAMS, 24 HR. CONTACT NUMBER: (360) 416-1356.
14. 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 ESC METHODS (E.G., SEEDING, MULCHING, PLASTIC COVERING, ETC.).
15. ANY AREA NEEDING ESC MEASURES NOT REQUIRING IMMEDIATE ATTENTION SHALL BE ADDRESSED WITHIN FIFTEEN (15) DAYS.
16. THE ESC FACILITIES ON ACTIVE SITES SHALL BE INSPECTED AND MAINTAINED A MINIMUM OF ONCE A MONTH OR WITHIN FORTY-EIGHT (48) HOURS FOLLOWING A STORM EVENT.
17. ANY PERMANENT FLOW CONTROL FACILITY USED AS A TEMPORARY SETTLING BASIN SHALL BE MODIFIED WITH THE NECESSARY EROSION CONTROL MEASURES AND SHALL PROVIDE ADEQUATE STORAGE CAPACITY. IF THE FACILITY IS TO FUNCTION AS ULTIMATELY AS AN INFILTRATION SYSTEM, THE TEMPORARY FACILITY MUST BE GRADED SO THAT THE BOTTOM AND SIDES ARE AT LEAST THREE FEET ABOVE THE FINAL GRADE OF THE PERMANENT FACILITY.
18. PRIOR TO THE BEGINNING OF THE WET SEASON (OCT. 1), ALL DISTURBED AREAS SHALL BE REVIEWED TO IDENTIFY WHICH ONES 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 SKETCH MAP OF THOSE AREAS TO BE SEEDED AND THOSE AREAS TO REMAIN UNCOVERED SHALL BE SUBMITTED TO THE CITY INSPECTOR. THE CITY INSPECTOR CAN REQUIRE SEEDED OF ADDITIONAL AREAS IN ORDER TO PROTECT SURFACE WATERS, ADJACENT PROPERTIES, OR DRAINAGE FACILITIES.

STANDARD EROSION & SEDIMENTATION CONTROL DETAILS

1. WHERE APPLICABLE PER THE TESC PLAN, UTILIZE WSDOT STANDARD DETAILS FOR EROSION CONTROL MEASURES. THESE INCLUDE, BUT MAY NOT BE LIMITED TO:

AS NEEDED:

WATTLE INSTALLATION ON SLOPES	I-30.30-02	D C2
STORM DRAIN INLET PROTECTION	I-40.20-010	
MISCELLANEOUS EROSION CONTROL DETAILS	I-80.10-02	

PER PLAN AS NEEDED:

HIGH VISIBILITY FENCE	I-10.10-01	A C2
HIGH VISIBILITY SILT FENCE	I-30.17-00	B C2
BIODEGRADABLE CHECK DAMS ON CHANNELS	I-50.20-01	C C2

ESC-2 WET SEASON SPECIAL PROVISIONS
(OCTOBER 1, - APRIL 30.)

1. THE ALLOWED TIME THAT A DISTURBED AREA CAN REMAIN UNWORKED WITHOUT COVER MEASURES IS REDUCED TO TWO DAYS, RATHER THEN SEVEN.
2. STOCKPILES AND STEEP CUT AND FILL SLOPES ARE TO BE PROTECTED IF UNWORKED FOR MORE THAN 12 HOURS.
3. COVER MATERIALS SUFFICIENT TO COVER ALL DISTURBED AREAS SHALL BE STOCKPILED ON SITE.
4. ALL AREAS THAT ARE TO BE UNWORKED DURING THE WET SEASON SHALL BE SEEDED WITHIN ONE WEEK OF THE BEGINNING OF THE WET SEASON.
5. MULCH IS REQUIRED TO PROTECT ALL SEEDED AREAS.
6. FIFTY LINEAR FEET OF SILT FENCE (AND THE NECESSARY STAKES) PER ACRE OF DISTURBANCE MUST BE STOCKPILED ON SITE.
7. CONSTRUCTION ROAD AND PARKING LOT STABILIZATION ARE REQUIRED FOR ALL SITES UNLESS THE SITE IS UNDERLAIN BY COARSE-GRAINED SOIL.
8. SEDIMENT RETENTION IS REQUIRED UNLESS NO OFFSITE DISCHARGE IS ANTICIPATED FOR THE SPECIFIC DESIGN FLOW.
9. SURFACE WATER CONTROLS ARE REQUIRED UNLESS NO OFFSITE DISCHARGE IS ANTICIPATED FOR THE SPECIFIED DESIGN FLOW.
10. PHASING AND MORE CONSERVATIVE BMP'S MUST BE EVALUATED FOR CONSTRUCTION ACTIVITY NEAR SURFACE WATERS.
11. ANY RUNOFF GENERATED BY DEWATERING SHALL BE TREATED THROUGH CONSTRUCTION OF A SEDIMENT TRAP WHEN THERE IS SUFFICIENT SPACE OR BY RELEASING THE WATER TO A WELL-VEGETATED, GENTLY SLOPING AREA. SINCE PUMPS ARE USED FOR DEWATERING, IT MAY BE POSSIBLE TO PUMP THE SEDIMENT-LADEN WATER WELL AWAY FROM THE SURFACE WATER SO THAT VEGETATION CAN BE MORE EFFECTIVELY UTILIZED FOR TREATMENT. A STRAW BALE FILTER SHALL BE PLACED AROUND THE DISCHARGE FROM THE DEWATERING PUMP. IF THERE IS NOT SPACE FOR A SEDIMENT TRAP OR 25 FEET OF SUITABLE VEGETATION, OTHER FILTRATION METHODS SHALL BE REQUIRED.
12. THE FREQUENCY OF MAINTENANCE REVIEW INCREASES FROM MONTHLY TO WEEKLY.

ESC-3 SENSITIVE AREAS SPECIAL PROVISIONS

1. WHENEVER POSSIBLE, PHASE ALL OR PART OF THE PROJECT SO THAT IT OCCURS DURING THE DRY SEASON. IF THIS IS IMPOSSIBLE, NOVEMBER THROUGH FEBRUARY SHALL BE AVOIDED SINCE THIS IS THE MOST LIKELY PERIOD FOR LARGE, HIGH-INTENSITY STORMS.
2. ALL PROJECT SHALL BE COMPLETED AND STABILIZED AS QUICKLY AS POSSIBLE. LIMITING THE SIZE AND DURATION OF A PROJECT IS PROBABLY THE MOST EFFECTIVE FORM OF EROSION CONTROL.
3. WHERE APPROPRIATE, SANDBAGS OR AN EQUIVALENT BARRIER SHALL BE CONSTRUCTED BETWEEN THE PROJECT AREA AND THE SURFACE WATER IN ORDER TO ISOLATE THE CONSTRUCTION AREA FROM HIGH WATER THAT MIGHT RESULT DUE TO PRECIPITATION.
4. ADDITIONAL PERIMETER PROTECTION SHALL BE CONSIDERED TO REDUCE THE LIKELIHOOD OF SEDIMENT ENTERING THE SURFACE WATERS. SUCH PROTECTION MIGHT INCLUDE MULTIPLE SILT FENCES, SILT FENCES WITH A HIGHER AOS, CONSTRUCTION OF A BERM, OR A THICK LAYER OF ORGANIC MULCH UPSLOPE OF A SILT FENCE.
5. IF WORK IS TO OCCUR WITHIN THE ORDINARY HIGH WATER MARK OF A STREAM, MOST PROJECTS MUST ISOLATE THE WORK AREA FROM THE STREAM BY DIVERTING THE STREAM OR CONSTRUCTING A COFFERDAM. CERTAIN SMALL PROJECTS THAT PROPOSE ONLY A SMALL AMOUNT OF GRADING MAY NOT REQUIRE ISOLATION SINCE DIVERSIONS TYPICALLY RESULT IN DISTURBANCE AND THE RELEASE OF SOME SEDIMENT TO THE STREAM. FOR SUCH SMALL PROJECTS THE POTENTIAL IMPACTS FROM CONSTRUCTION WITH AND WITHOUT A DIVERSION MUST BE WEIGHED.
6. IF A STREAM MUST BE CROSSED, A TEMPORARY BRIDGE SHALL BE CONSIDERED RATHER THAN ALLOWING EQUIPMENT TO UTILIZE THE STREAMBED FOR A CROSSING.

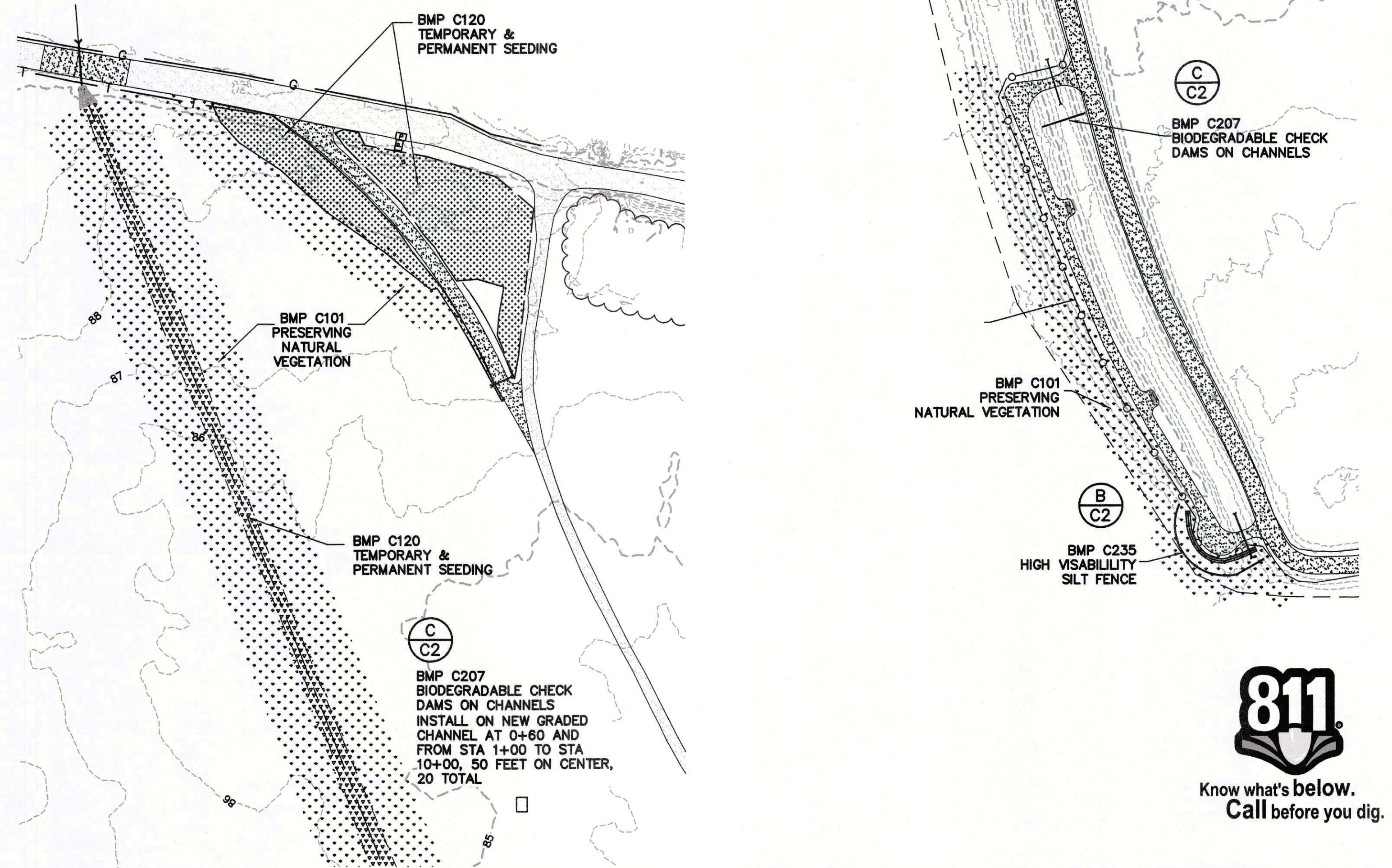
ESC-4 FINAL SITE STABILIZATION NOTES

TO OBTAIN FINAL CONSTRUCTION APPROVAL, THE FOLLOWING CONDITIONS MUST BE MET:

1. ALL DISTURBED AREAS OF THE SITE SHALL BE VEGETATED OR OTHERWISE PERMANENTLY STABILIZED. AT A MINIMUM, DISTURBED AREAS SHALL BE SEEDED AND MULCHED WITH A HIGH LIKELY HOOD THAT SUFFICIENT COVER WILL DEVELOP SHORTLY AFTER FINAL APPROVAL. MULCH WITHOUT SEEDING IS NOT ADEQUATE TO ALLOW FINAL APPROVAL OF THE PERMIT, EXCEPT FOR SMALL AREAS OF MULCH USED FOR LANDSCAPING. THE ONLY EXCEPTIONS TO THESE REQUIREMENTS ARE LOTS WITHIN A PLAT THAT ARE TO BE DEVELOPED UNDER AN APPROVED RESIDENTIAL PERMIT IMMEDIATELY FOLLOWING PLAT APPROVAL. IN THESE CASES, MULCH AND/OR TEMPORARY SEEDING ARE ADEQUATE FOR COVER.
2. STRUCTURAL MEASURES SUCH AS, BUT NOT LIMITED TO, SILT FENCES, PIPE SLOPES DRAINS, CONSTRUCTION ENTRANCES, STORM DRAIN INLET PROTECTION, AND SEDIMENT TRAPS AND PONDS SHALL BE REMOVED FROM THE SITE. MEASURES THAT WILL QUICKLY DECOMPOSE, SUCH AS BRUSH BARRIERS AND ORGANIC MULCHES, MAY BE LEFT IN PLACE. IN THE CASE OF SILT FENCES, IT MAY BE BEST TO REMOVE FENCES IN CONJUNCTION WITH THE SEEDING, SINCE IT MAY BE NECESSARY TO BRING MACHINERY BACK IN TO REMOVE THEM. THIS WILL RESULT IN DISTURBED SOILS THAT WILL AGAIN REQUIRE PROTECTION. THE DDES INSPECTOR MUST APPROVE AN APPLICANT'S PROPOSAL TO REMOVE FENCING PRIOR TO THE ESTABLISHMENT OF VEGETATION. IN SOME CASES, SUCH AS RESIDENTIAL BUILDING FOLLOWING PLAT DEVELOPMENT, IT MAY BE APPROPRIATE TO LEAVE SOME OR ALL ESC MEASURES FOR USE DURING SUBSEQUENT DEVELOPMENT. THIS SHALL BE DETERMINED ON A SITE-SPECIFIC BASIS.
3. ALL PERMANENT SURFACE WATER FACILITIES, INCLUDING CATCH BASINS, MANHOLES, PIPES, DITCHES, CHANNELS, R/D FACILITIES, AND WATER QUALITY FACILITIES, SHALL BE CLEANED. ANY OFFSITE CATCH BASIN THAT REQUIRED PROTECTION DURING CONSTRUCTION SHALL ALSO BE CLEANED.
4. IF ONLY THE INFRASTRUCTURE OF THE SITE HAS BEEN DEVELOPED (E.G. SUBDIVISIONS AND SHORT PLATS) WITH BUILDING CONSTRUCTION TO OCCUR UNDER A DIFFERENT PERMIT, THEN THE SENSITIVE AREA BUFFERS, SENSITIVE AREA TRACTS, OR SENSITIVE AREA SETBACK AREA SHALL BE CLEARLY MARKED AS DESCRIBED IN SECTION D.4.1 IN ORDER TO ALERT FUTURE BUYERS AND BUILDERS.

ESC-5 CONSTRUCTION SEQUENCE

1. ATTEND PRE-CONSTRUCTION MEETING.
2. FLAG OR FENCE WORK LIMITS.
3. INSTALL PERIMETER PROTECTION (SILT FENCE, STRAW WATTLE, BRUSH BARRIER, ETC.).
4. MAINTAIN EROSION CONTROL MEASURES IN ACCORDANCE WITH DOESWMM COUNTY STANDARDS AND MANUFACTURER'S RECOMMENDATIONS.
5. RELOCATE SURFACE WATER CONTROLS AND EROSION CONTROL MEASURES OR INSTALL NEW MEASURES SO THAT AS SITE CONDITIONS CHANGE THE EROSION AND SEDIMENT CONTROL IS ALWAYS IN ACCORDANCE WITH THE SKAGIT COUNTY EROSION AND SEDIMENT CONTROL STANDARDS.
6. COVER ALL AREAS THAT WILL BE UNWORKED FOR MORE THAN SEVEN DAYS OR TWO DAYS DURING THE WET SEASON WITH STRAW, WOOD FIBER MULCH, COMPOST, PLASTIC SHEETING OR EQUIVALENT.
7. STABILIZE ALL AREAS THAT REACH FINAL GRADE WITHIN SEVEN DAYS.
8. SEED OR SOD ANY AREAS TO REMAIN UNWORKED FOR MORE THAN 30 DAYS.
9. UPON COMPLETION OF THE PROJECT, ALL DISTURBED AREAS MUST BE STABILIZED AND BMP'S REMOVED IF APPROPRIATE.



TESCP PLANS
NOTES & DETAILS

SCALES:
HORIZONTAL : 1" = 50'
VERTICAL : N/A
NOTE: IF THIS SHEET IS LESS THAN 22"x 34" THEN SHEET HAS BEEN REDUCED

VETERANS COMMUNITY PARK
& MEMORIAL WALL
SECTIONS 8 & 17, T. 35 N., R. 5 E., W.M.
JURISDICTION, WASHINGTON

FIELD BK/Pg:	324/6-9
DATE:	3/16/22
DRAWING:	5867TS.DWG
JOB NO.:	5867
SHEET:	C2

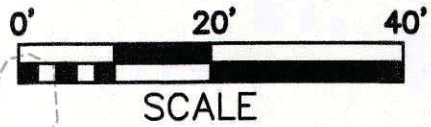
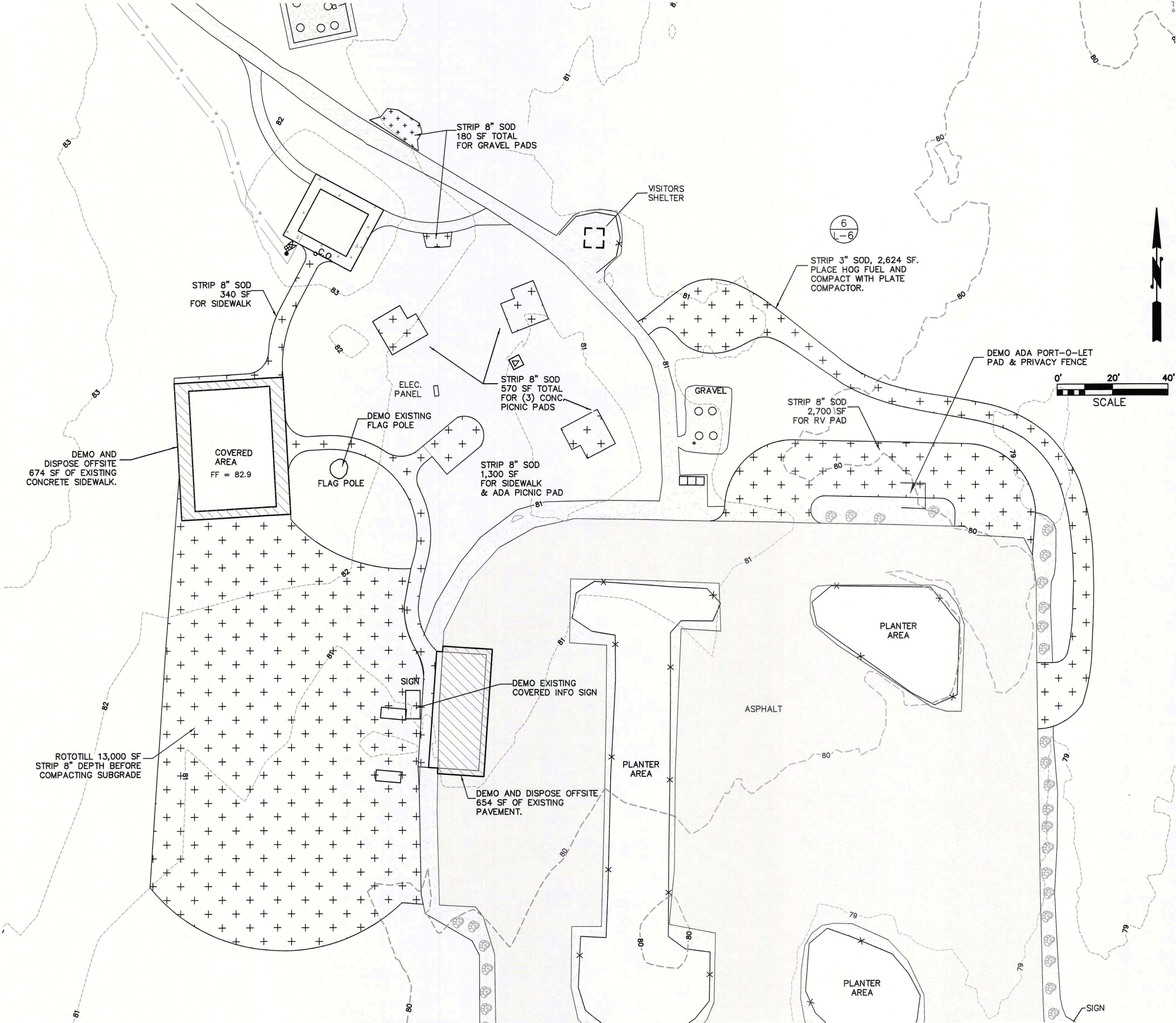
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DEMO AND STRIPPING NOTES

- 1. CONTRACTOR SHALL PREPARE TYPE B TOPSOIL ON-SITE. TYPE B TOPSOIL SHALL BE NATIVE SOD AND TOPSOIL THAT HAS BEEN ROTOTILLED PRIOR TO EXCAVATION OR STRIPPING. TOPSOIL SHALL BE FREE OF GRAVEL, CONCRETE, AND WOODY MATERIAL PER SPECIFICATION.
- 2. ALL NATIVE TOPSOIL AND SOD IS TO BE REUSED ON-SITE FOR FILL IN NON-STRUCTURAL AREAS. EXCESS NATIVE TOPSOIL SHALL BE PLACED IN THE ARE AROUND THE NORTHEAST GRAVEL PATH.
- 3. SUBGRADE OF NATIVE SOIL SHALL BE COMPACTED AFTER STRIPPING. PLATE COMPACTOR MAY BE USED UNDER THE SMALLER PICNIC TABLES AND LINEAR SIDEWALKS.



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DEMO
PLAN

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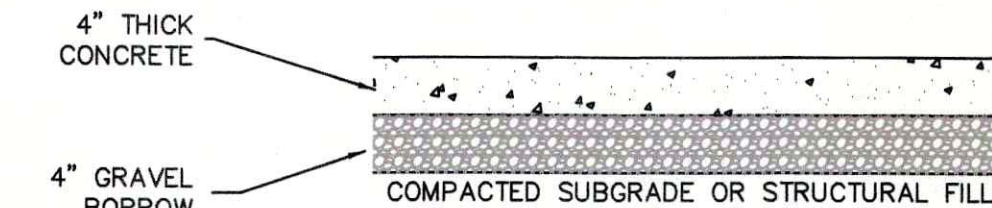
**VETERANS COMMUNITY PARK
& MEMORIAL WALL**
SECTION 8 & 17, T. 35 N., R. 5 E., W.M.
SKAGIT COUNTY, WASHINGTON

FIELD BK/PG:	324/6-9
DATE:	3/16/22
DRAWING:	5867SP.DWG
JOB NO.:	5867
SHEET:	C2B

GENERAL/GRADING

- ALL CONSTRUCTION AND INSTALLATION WORK SHALL CONFORM TO APPLICABLE 2018 STANDARD SPECIFICATIONS AND STANDARD PLANS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION PREPARED BY THE WASHINGTON STATE DEPARTMENT OF TRANSPORTATION (WSDOT) AND ACCORDING TO THE RECOMMENDATIONS OF THE MANUFACTURERS OF THE MATERIAL OR EQUIPMENT USED AND IN COMPLIANCE WITH APPLICABLE, FEDERAL, STATE AND/OR COUNTY REGULATIONS, REQUIREMENTS AND STANDARDS, INCLUDING APPLICABLE LABOR LAWS, WASHINGTON INDUSTRIAL SAFETY AND HEALTH ACT, AND OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970.
- CONTRACTOR IS REQUIRED TO PREPARE FOR AND ATTEND A PRE-CONSTRUCTION MEETING PRIOR TO BEGINNING WORK.
- CONTRACTOR SHALL PROVIDE TRAFFIC CONTROL AND SIGNING CONFORMING TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), CURRENT EDITION AS MAY BE REQUIRED AT HELMICK ROAD.
- LOCATIONS OF EXISTING UTILITIES SHOWN HEREON ARE APPROXIMATE, AND ARE NOT NECESSARILY COMPLETE. THE CONTRACTOR SHALL INDEPENDENTLY VERIFY THE ACCURACY OF ALL UTILITY LOCATIONS SHOWN, AND SHALL FURTHER DISCOVER AND AVOID ANY OTHER UTILITIES NOT SHOWN HEREON WHICH MAY BE AFFECTED BY THE IMPLEMENTATION OF THIS PLAN. IF CONFLICTS WITH EXISTING UTILITIES ARISE DURING CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND ANY CHANGES REQUIRED SHALL BE APPROVED BY THE DISTRICT PRIOR TO COMMENCEMENT OF RELATED CONSTRUCTION ON THE PROJECT. IF EXISTING UTILITIES ARE DAMAGED BY THE CONTRACTOR, SAID UTILITIES SHALL BE REPAIRED OR REPLACED AT NO ADDITIONAL COST TO THE OWNER OR ENGINEER.
- CONTRACTOR SHALL UTILIZE THE ONE CALL SYSTEM FOR UTILITY UNDERGROUND LOCATION AND ABIDE BY THE REQUIREMENTS THEREOF. CALL 1-800-424-5555.
- CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS AND APPROVALS AND SHALL ABIDE BY THE CONDITIONS AND REQUIREMENTS RELATED TO SAID PERMITS AND APPROVALS.
- OTHER UTILITIES MAY BE WORKING WITHIN THE LIMITS OF THE PROJECT, INCLUDING, BUT NOT LIMITED TO, PUGET SOUND ENERGY.
- ALL WORK SHALL BE STAKED BY THE ENGINEER'S SURVEYOR PRIOR TO STARTING CONSTRUCTION. THE CONTRACTOR SHALL PROTECT ALL STAKING AND SURVEY MARKERS DURING THE CONSTRUCTION PERIOD. THE CONTRACTOR SHALL NOTIFY THE ENGINEER A MINIMUM OF 2 WORKING DAYS IN ADVANCE OF ALL REQUESTS FOR CONSTRUCTION STAKING.
- AN APPROVED COPY OF THESE CONSTRUCTION DRAWINGS MUST BE ON THE JOB SITE WHENEVER CONSTRUCTION IS IN PROGRESS. THE CONTRACTOR SHALL PROVIDE A COMPLETE SET OF CERTIFIED AS-CONSTRUCTED DRAWINGS TO THE ENGINEER UPON COMPLETION OF THE CONSTRUCTION.
- CONSTRUCTION REVIEW SHALL BE PERFORMED BY THE ENGINEER AND THEIR APPOINTED REPRESENTATIVES. THE CONTRACTOR SHALL PROVIDE 24 HOURS NOTICE IN ADVANCE OF ANY CONSTRUCTION REVIEW OR SPECIAL INSPECTIONS TO BOTH THE ENGINEER AND THE INSPECTOR. THESE MAY BE SCHEDULED AT THE WEEKLY SITE MEETING.
- NO PART OF THE CONSTRUCTION SHALL BE COVERED, CONCEALED OR PUT INTO USE UNTIL IT HAS BEEN INSPECTED AND ACCEPTED BY THE DISTRICT AND THE ENGINEER.
- BACKFILL MATERIAL FOR TRENCHES LOCATED IN ROAD RIGHT-OF-WAYS SHALL CONFORM TO WSDOT SECTION 9-03.14(2) SELECT BORROW. BACKFILL MATERIAL SHALL BE PLACED IN LIFTS NOT TO EXCEED EIGHT (8) INCHES LOOSE THICKNESS AND COMPACTED TO 95% OF MAXIMUM DENSITY (ASTM 1557). EACH LIFT SHALL BE COMPACTED PRIOR TO PLACEMENT OF SUCCESSIVE LIFTS.
- BACKFILL MATERIAL FOR TRENCHES LOCATED OUTSIDE OF ROAD RIGHT-OF-WAYS MAY BE NATIVE MATERIAL WITH WRITTEN APPROVAL OF THE ENGINEER. BACKFILL MATERIAL SHALL BE PLACED IN LIFTS NOT TO EXCEED TWELVE (12) INCHES LOOSE THICKNESS AND COMPACTED TO 90% OF MAXIMUM DRY DENSITY, (ASTM 1557). EACH LIFT SHALL BE COMPACTED PRIOR TO PLACEMENT OF SUCCESSIVE LIFTS. (ALSO SEE OTHER NOTES).
- THE CONTRACTOR SHALL MAINTAIN THE SITE IN A NEAT AND ORDERLY CONDITION. ALL REFUSE, DEBRIS, AND OTHER OBJECTIONABLE MATERIAL SHALL BE REMOVED AT LEAST WEEKLY, OR MORE OFTEN IF DIRECTED BY THE ENGINEER. ROUTINE AND FINAL CLEANUP ARE TO BE AN INTEGRAL PART OF ALL BID ITEMS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONTRACTOR FURNISHED MATERIAL. ALL SUCH MATERIAL WHICH IS DEFECTIVE BY MANUFACTURE OR HAS BEEN DAMAGED IN TRANSIT OR HAS BEEN DAMAGED AFTER DELIVERY SHALL BE REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFE STORAGE OF ALL MATERIALS FURNISHED AND ACCEPTED UNTIL IT HAS BEEN INCORPORATED IN THE COMPLETED PROJECT.
- SUBSTANTIAL COMPLETION WILL BE DETERMINED BY THE ENGINEER AFTER THE WORK ON THE LEVEE IS COMPLETED AND THE TRAIL CAN BE OPENED AND REMAIN OPEN TO THE PUBLIC.
- DATUM - NAVD 88. SEE PROJECT BENCHMARK.

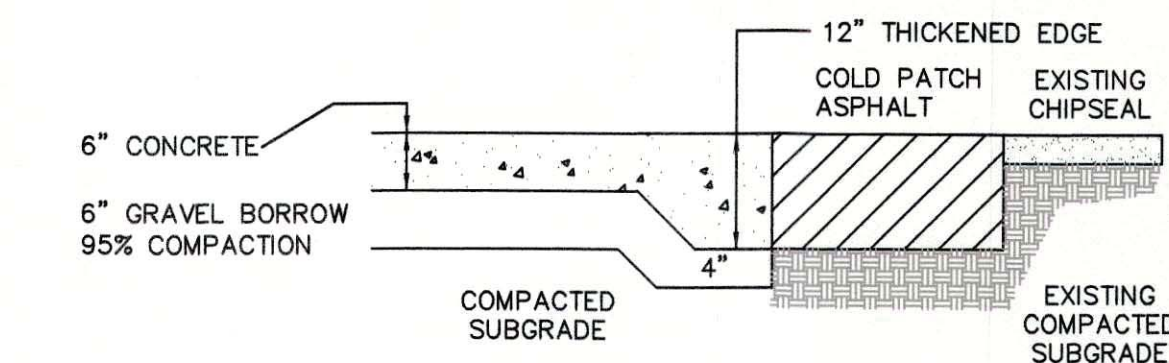
(ALSO SEE OTHER NOTES)



A
C3

CONCRETE SIDEWALK DETAIL

(NOT TO SCALE)



B
C3

ADA PARKING SLAB SECTION (TYP.)

(NOT TO SCALE)

- SEE ARCHITECT SPECIFICATIONS FOR ACCENT AND FINISH.
- SEE ARCHITECT PLANS FOR SCORING LOCATION AND JOINTS

1 2



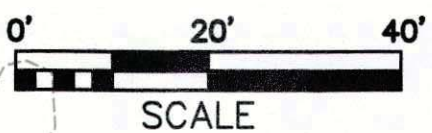
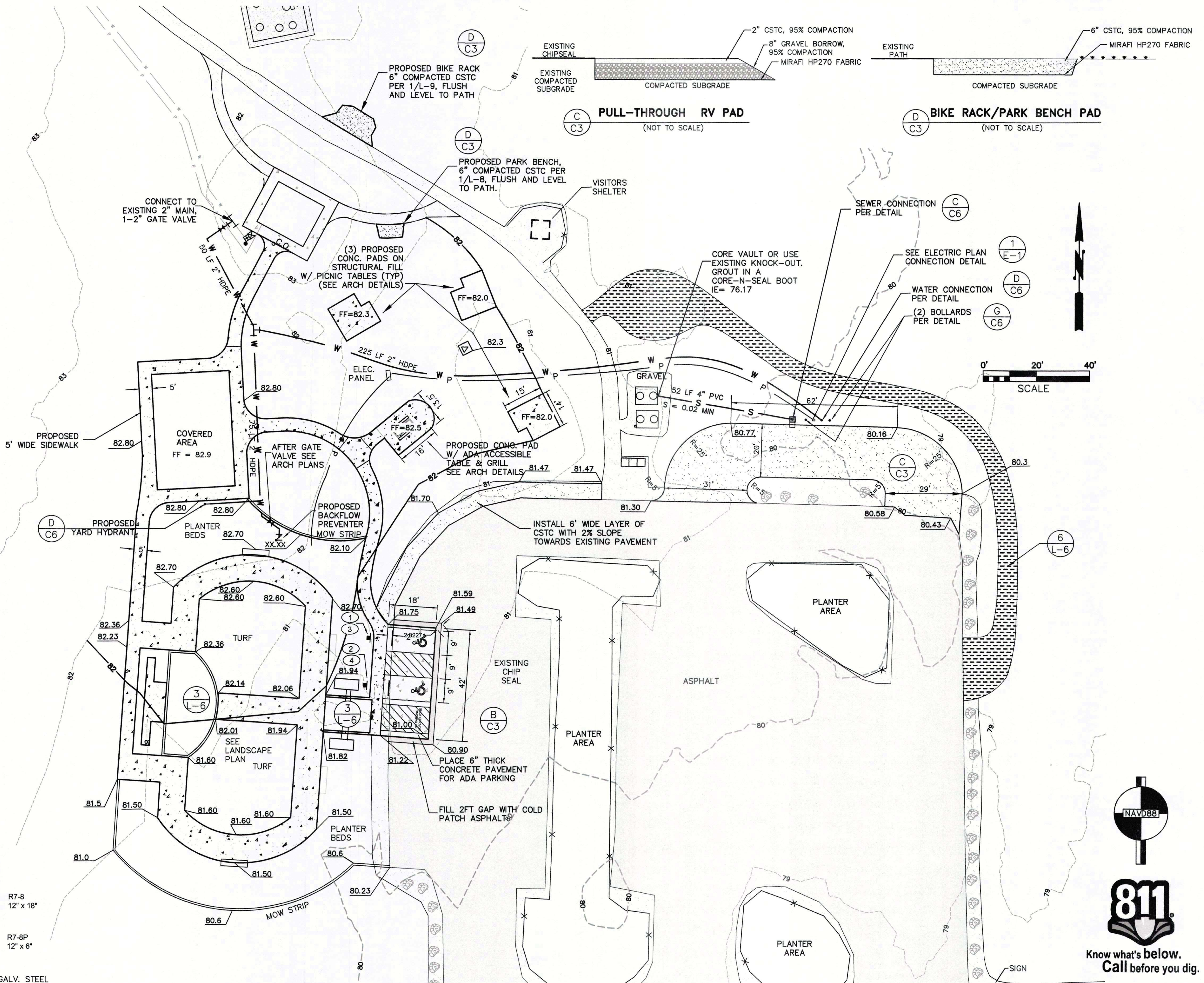
R7-8
12" x 18"

3 4



R7-8P
12" x 6"

- SIGNS MOUNTED TO GALV. STEEL POSTS.
- MIN. 60" FROM GRADE TO BOTTOM OF RESERVED PARKING SIGN



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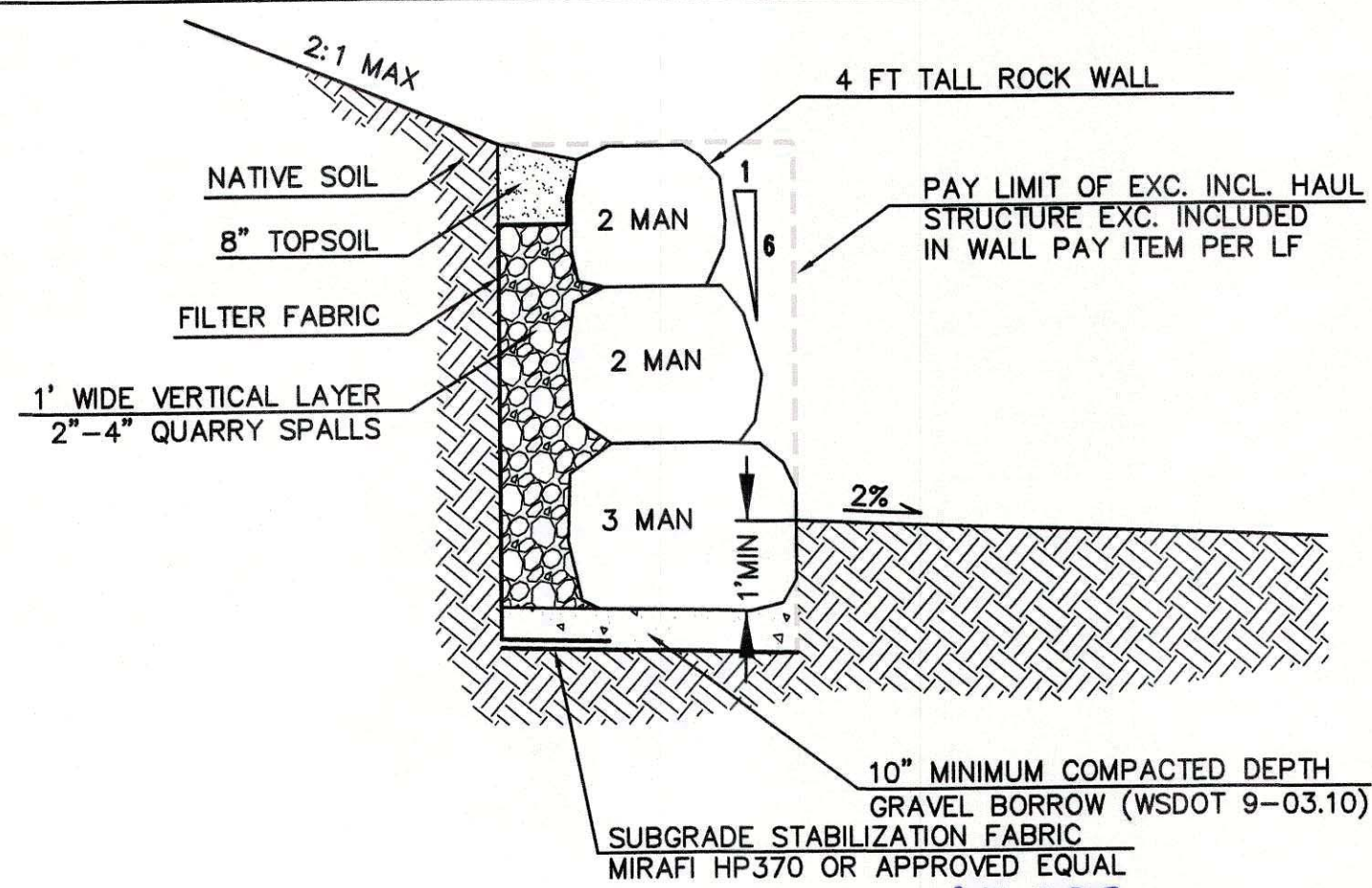
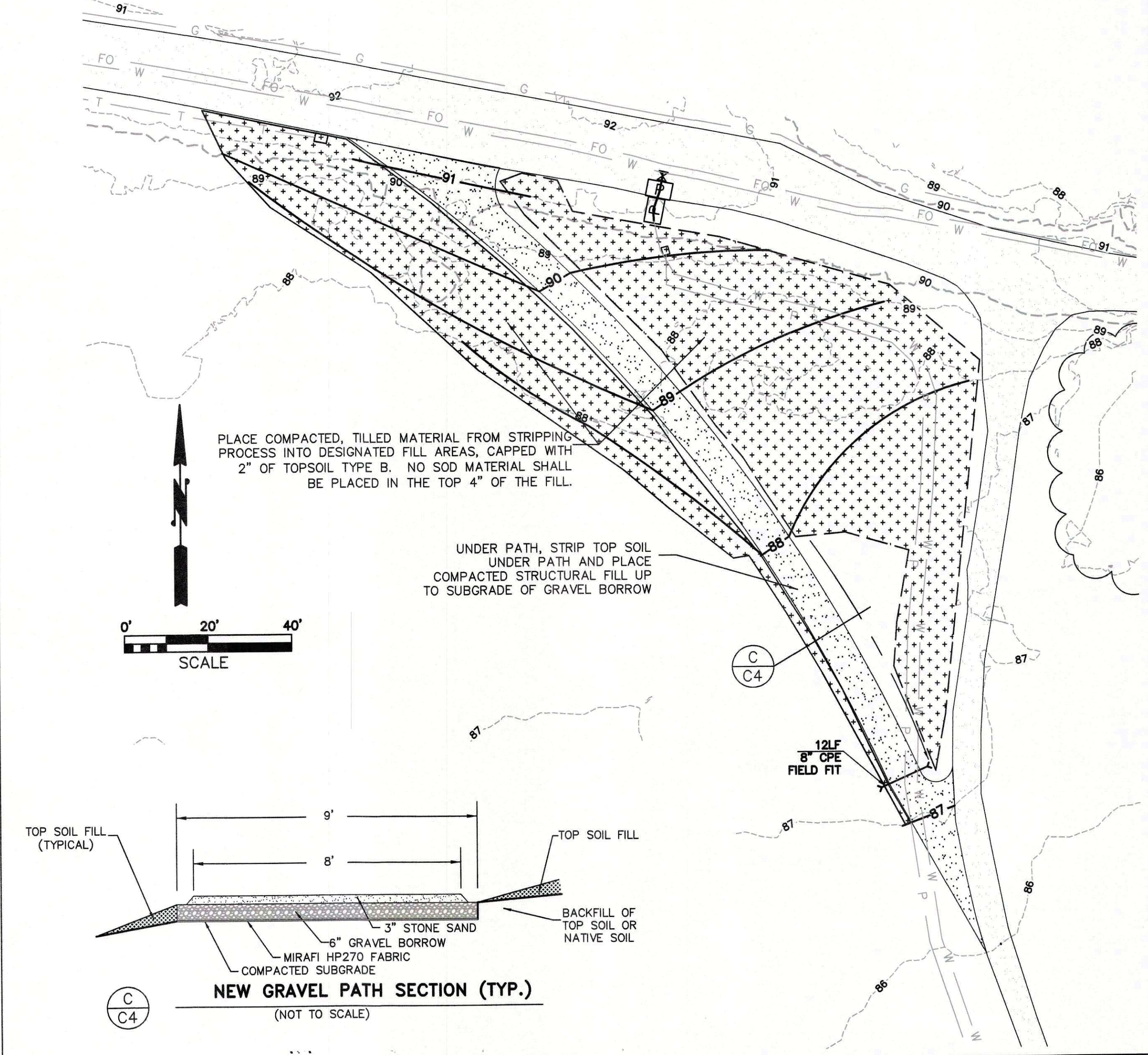
GRADING
PLAN

SCALES:
HORIZONTAL : 1" = 20'
VERTICAL : N/A
NOTE: IF THIS SHEET IS LESS THAN 22"x 34" THEN SHEET HAS BEEN REDUCED

VETERANS COMMUNITY PARK
& MEMORIAL WALL
SECTION 8 & 17, T. 35 N., R. 5 E., W.M.
SKAGIT COUNTY, WASHINGTON

FIELD BK/PG: 324/6-9
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NORTHEAST GRAVEL PATH

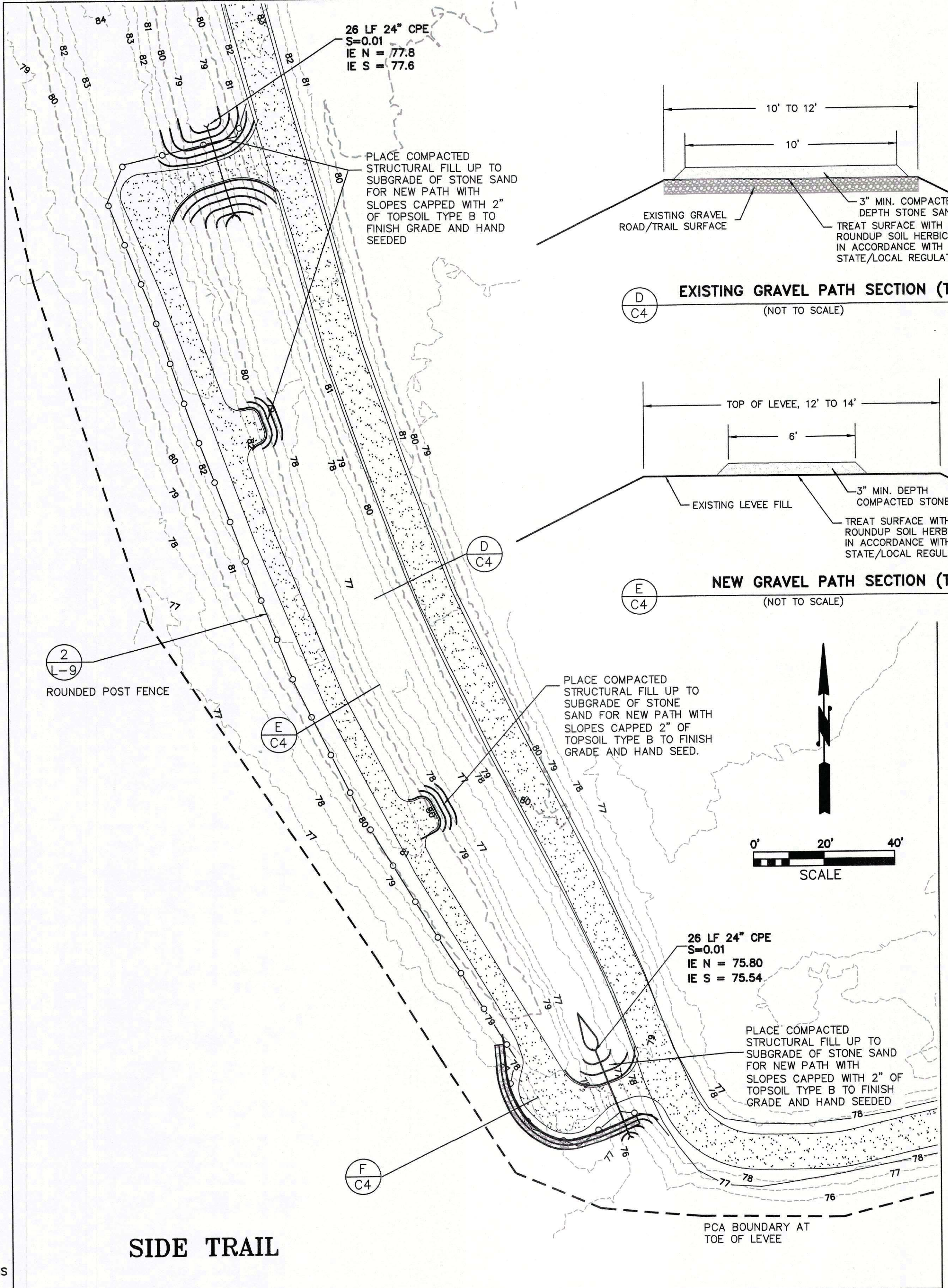


ROCKERY WALL NOTES:

- ALL ROCKERIES ARE TO BE INSTALLED IN ACCORDANCE WITH USDOT/FHWA 2006 GENERAL ROCKERY CONSTRUCTION GUIDELINES.
- ROCKERY BACKFILL QUARRY SPALLS AND NATIVE SOIL INCLUDED IN WALL PAY ITEM PER LF.
- ROCK SHALL BE PLACED TO DECREASE IN SIZE WITH INCREASING WALL HEIGHT.
- THE LONG DIMENSION OF THE ROCK SHALL EXTEND PERPENDICULAR TO THE ROCK FACE TO PROVIDE MAXIMUM STABILITY.
- ROCKS SHALL BE PLACED TO AVOID CONTINUOUS JOINT PLANES IN VERTICAL OR LATERAL DIRECTIONS. EACH ROCK SHALL BEAR ON TWO OR MORE ROCKS BELOW IT, WITH GOOD FLAT TO FLAT CONTACT.
- 2"-4" QUARRY SPALLS SHALL BE FREE OF ORGANICS WITH LESS 5 PERCENT FINES PASSING 200 SIEVE.

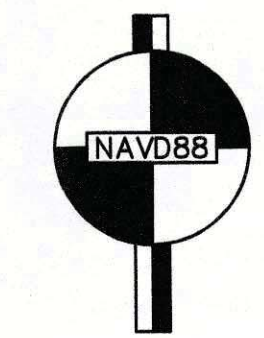
TYPICAL ROCKERY WALL SECTION (NOT TO SCALE)

SIDE TRAIL



GRAVEL PATH NOTES

- CONTRACTOR SHALL NOT BEGIN GRAVEL PATH CONSTRUCTION UNTIL ALL THE CULVERT, ROCK WALL, AND FILL WORK COMPLETED ON THE SIDE TRAIL AREA.
- CONTRACTOR SHALL TREAT GRAVEL PATH AREAS WITH HERBICIDE IN ACCORDANCE WITH THE MANUFACTURER RECOMMENDATIONS PRIOR TO PLACEMENT OF STONE SAND SURFACING.
- CONTRACTOR SHALL USE A MINIMUM 5 TON VIBRATORY ROLLER (54" WIDTH) TO COMPACT THE STONE SAND TO 95%.



GRADING PLAN

SCALES:
HORIZONTAL : 1" = 20'
VERTICAL : N/A

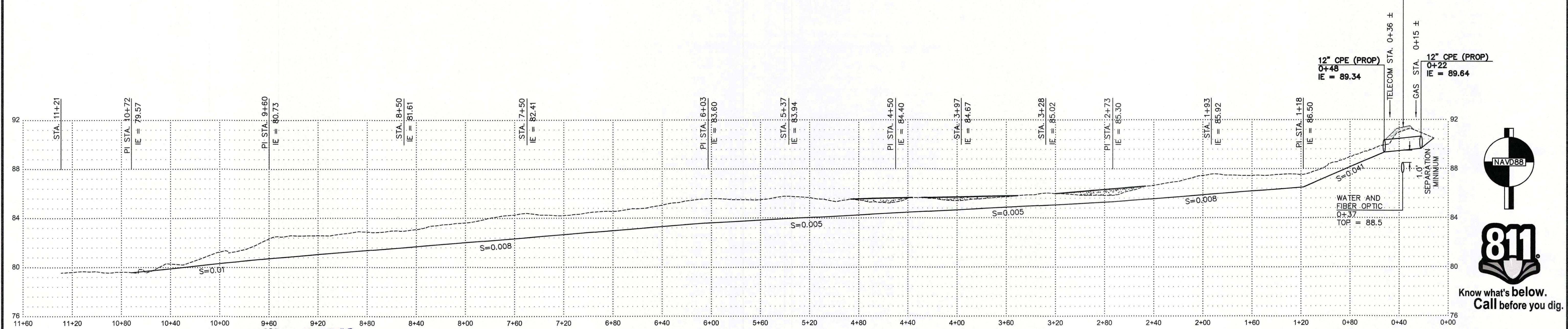
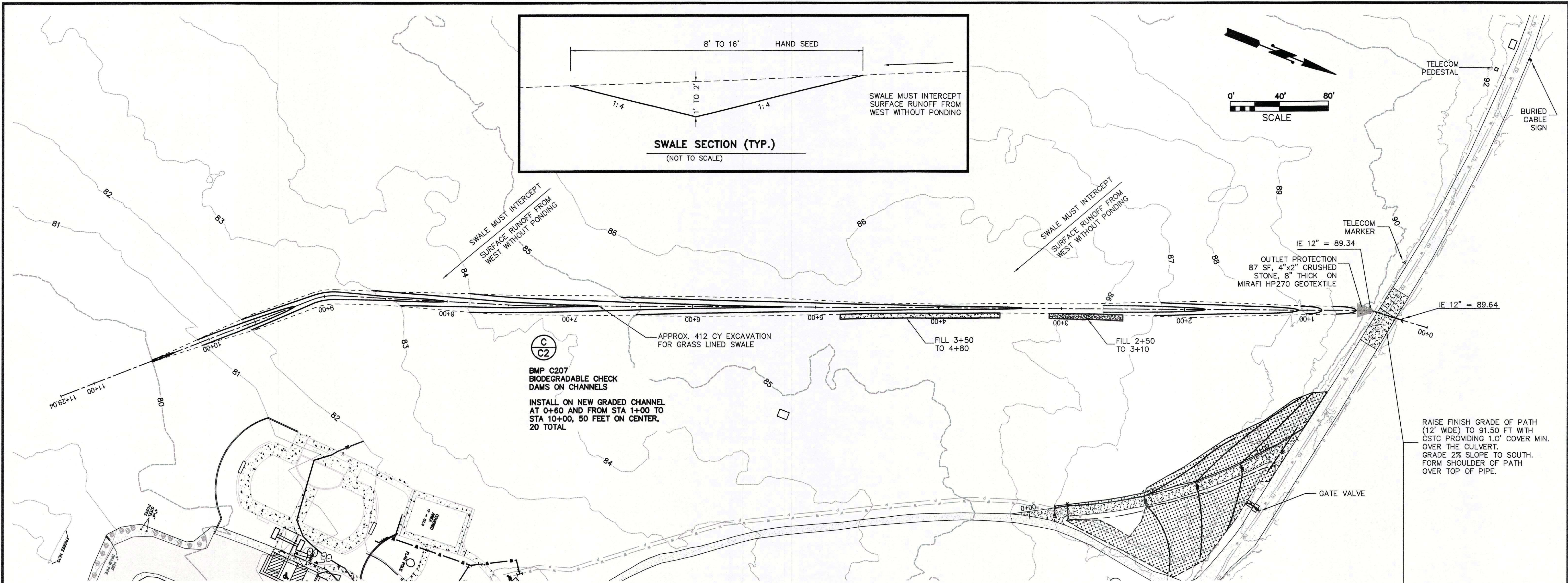
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GRADING PLAN

SCALES:
HORIZONTAL : 1" = 40'
VERTICAL : 1" = 4'

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FIELD BK/PG: 324/6-9
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SHEET: C5

WATER LINE NOTES

1. ALL WORK SHALL CONFORM WITH THE 2018 STANDARD SPECIFICATIONS AND PLANS FOR ROAD, BRIDGE AND MUNICIPAL CONSTRUCTION, WASHINGTON STATE DEPARTMENT OF TRANSPORTATION, HEREINAFTER CALLED "WSDOT", AND ACCORDING TO THE RECOMMENDATIONS OF THE MANUFACTURERS OF THE MATERIAL OR EQUIPMENT USED AND IN COMPLIANCE WITH APPLICABLE FEDERAL, STATE AND/OR COUNTY REGULATIONS, REQUIREMENTS AND STANDARDS, INCLUDING STANDARDS AND LAWS, WASHINGTON INDUSTRIAL SAFETY AND HEALTH ACT, AND OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970.
2. CONTRACTOR SHALL NOTIFY AND COORDINATE WITH SKAGIT COUNTY PARKS AND RECREATION (PARKS) PRIOR TO START OF CONSTRUCTION AND PRIOR TO ANY WATER SHUT-OFF OR TURN-ON AFFECTING THE WATER SYSTEM. CONTRACTOR SHALL NOT OPERATE ANY VALVES WITHOUT APPROVAL AND COOPERATION WITH PARKS.
3. ALL MATERIALS ARE TO BE APPROVED BY THE ENGINEER PRIOR TO CONSTRUCTION.
4. HDPE PIPE SHALL MEET THE REQUIREMENTS OF AWWA C-906. FITTINGS FOR HDPE PIPE SHALL MEET THE REQUIREMENT OF AWWA C-906.
5. ALL VALVES SHALL BE RESILIENT WEDGE GATE VALVES. ALL VALVES SHALL BE PROVIDED WITH CAST IRON VALVE BOXES.
6. ALL WATER INSTALLATIONS REQUIRE A 36" MINIMUM COVER AND A 48" MAXIMUM TRENCH DEPTH TO ANTICIPATED FINISH GRADE.
7. MINIMUM 1 FOOT VERTICAL AND 5 FOOT HORIZONTAL CLEARANCE BETWEEN WATER LINE AND ALL OTHER UTILITIES. HORIZONTAL SEPARATION BETWEEN WATER LINE AND SANITARY SEWER OR STORM DRAINS SHALL BE 10 FEET MINIMUM EXCEPT AS NOTED ON THE PLANS.
8. BEDDING MATERIAL FOR PVC PIPE SHALL BE APPROVED PIPE BEDDING PER WSDOT SPECIFICATIONS 9-03.16.
9. BACKFILL TRENCHES IN PAVEMENT AREAS WITH GRAVEL BORROW PER WSDOT SPECIFICATION 9-03.14 COMPACTED TO 95% OF MAXIMUM DENSITY PER ASTM 1557.
10. AFTER THE PIPE HAS BEEN LAID, ALL NEWLY LAID PIPE OR ANY VALVED SECTION THEREOF SHALL BE SUBJECTED TO A HYDROSTATIC PRESSURE TEST IN CONFORMANCE WITH ASTM F2164-21.
TEST DATE _____ TIME STOP _____ TEST PRESSURE _____ TIME START _____
MAKEUP WATER _____ PRESSURE DROP _____
11. DISINFECTION AND FLUSHING OF THE WATER LINES TO BE PER WSDOT SPECIFICATIONS. FLUSH AFTER LETTING SOAK A MINIMUM OF 24 HOURS AND AS PER WSDOT STANDARDS. USE DECHLORINATION EQUIPMENT WHEN FLUSHING OR FLUSH INTO SANITARY SEWER MANHOLE. DO NOT FLUSH INTO OR ALLOW TO DRAIN INTO ANY CREEK OR SURROUNDING CATCH BASINS.
12. COORDINATE ALL SHUTDOWN, FLUSHING AND HEALTH SAMPLES WITH SKAGIT PARKS.
13. A PRE-CONSTRUCTION CONFERENCE MUST BE SCHEDULED BY THE CONTRACTOR WITH SKAGIT PARKS PRIOR TO CONSTRUCTION.
14. CONTRACTOR SHALL MAKE ALL PAVEMENT REPAIR AND PERFORM ALL CLEANUP TO THE SATISFACTION OF SKAGIT PARKS.
15. ALL SALVAGED EXISTING MATERIALS ARE TO BE REMOVED BY THE CONTRACTOR.
16. WHEN INSTALLING WATER PIPELINE ACROSS EXISTING OR PROPOSED SANITARY SEWER, A FULL LENGTH OF PIPE SHALL BE INSTALLED WITH MID SPAN OR PIPE OVER THE SEWER.
17. THE EXISTING UNDERGROUND UTILITIES SHOW ARE BASED ON UTILITY-SUPPLIED CONSTRUCTION DRAWINGS. THE CONTRACTOR SHALL CONTRACT WITH AN INDEPENDENT COMPANY TO LOCATE THE EXISTING UNDERGROUND UTILITIES BEFORE BEGINNING INSTALLATION OF THE WATER PIPELINE. THE COST FOR LOCATING THE UNDERGROUND UTILITIES SHALL BE INCLUDED IN THE CONTRACTORS COST ESTIMATE TO SKAGIT PARKS.

EARTHWORK NOTES

1. CLEARING, GRUBBING AND CLEANUP SHALL CONFORM TO WSDOT 2-01, EXCEPT THAT GRUBBING LIMITS MAY NOT BE STAKED BY THE ENGINEER. CONTRACTOR SHALL CLEAR AND GRUB ALL AREAS WHICH MAY BE AFFECTED BY WALKWAYS OR GENERAL CONSTRUCTION. GRUBBED MATERIAL SHALL BE BROKEN DOWN BY ROTO TILLING INTO SMALL PIECES, PLACED INTO FILL AREAS, AND CAPPED WITH 2" OF TOPSOIL. NO SOD MATERIAL SHALL BE PLACED IN THE TOP 4" OF THE FILL.
2. THE CONTRACTOR SHALL COMPLETELY GRADE THE SITE AND MAKE CUTS AND FILLS REQUIRED TO COMPLETELY PREPARE THE SITE SUITABLE TO SERVE THE FINAL GRADES AND TYPICAL SECTIONS ESTABLISHED IN THE PLANS AND IN ACCORDANCE WITH ALL APPLICABLE SECTIONS OF WSDOT DIVISION 2.
3. SUBGRADE PREPARATION SHALL BE IN CONFORMANCE WITH WSDOT SECTION 2-06, EXCEPT THAT ASTM 1557 SHALL BE THE STANDARD FOR COMPACTION TESTS.
4. STRUCTURE EXCAVATION SHALL BE IN CONFORMANCE WITH WSDOT SECTION 2-09.
5. DITCH AND CHANNEL EXCAVATION SHALL BE IN CONFORMANCE WITH WSDOT SECTION 2-10.
6. TRIMMING AND CLEANUP SHALL BE IN CONFORMANCE WITH WSDOT SECTION 2-11.
7. WHEN SITE CONDITIONS REQUIRE STRUCTURAL FILL TO BE PLACED OVER COMPACTED EXISTING SUBGRADE TO REACH PLAN SUBGRADE ELEVATION, GRAVEL BORROW MEETING THE REQUIREMENTS OF SECTION 9-03.14(1) AND COMPACTED ACCORDING TO SECTIONS 2-03.3(14)c and 2-03.3(14)d SHALL BE USED AS STRUCTURAL FILL. THE CONDITIONS INCLUDE AREAS UNDER PICNIC TABLE PADS, SIDEWALKS, PARKING PAD, RV PAD, AND FILL AREAS OVER NEW CULVERTS.

STANDARD PLANS & DETAILS

1. WHERE APPLICABLE PER THESE PLANS, UTILIZE WSDOT STANDARD DETAILS. THESE INCLUDE, BUT MAY NOT BE LIMITED TO:

PER PLAN AS NEEDED:

CEMENT CONCRETE SIDEWALK
BOLLARD TYPE 2
PARKING PLACE LAYOUT

F-30.10-04
H-60.20-01
M-17.10-02

F
C6
G
C6
H
C6

3-16-2022



SIES
SEMRAU ENGINEERING & SURVEYING
Civil Engineering • Land Surveying • Planning

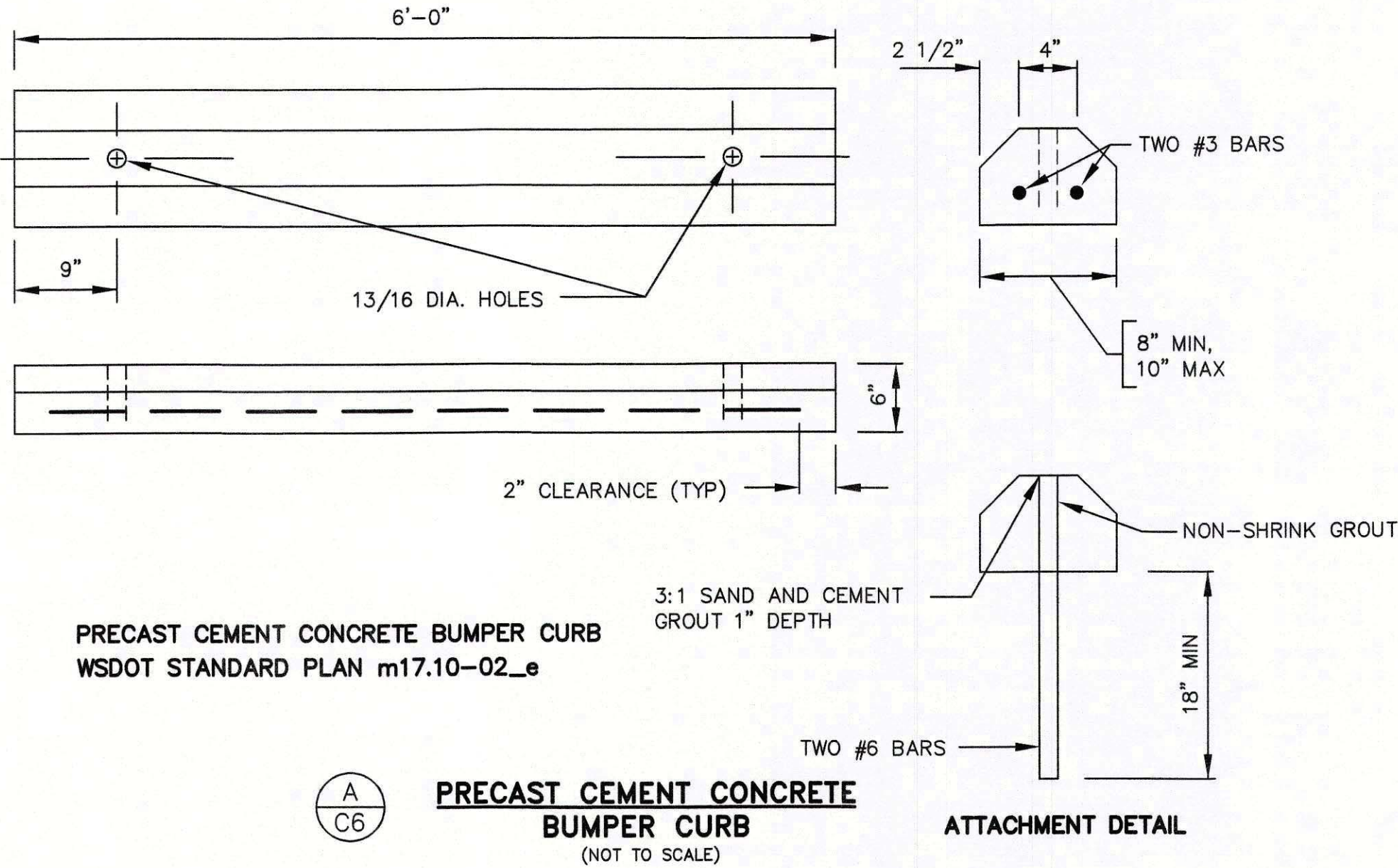
NO.	DATE	REVISION	BY	REV.

NOTES
& DETAILS

SCALES:
HORIZONTAL : 1" = 20'
VERTICAL : N/A
NOTE: IF THIS SHEET IS LESS THAN 22"x 34" THEN SHEET HAS BEEN REDUCED

VETERANS COMMUNITY PARK
& MEMORIAL WALL
SECTION 8 & 17, T. 35 N., R. 5 E., W.M.
SKAGIT COUNTY, WASHINGTON

FIELD BK/PG: 324/6-9
DATE: 3/16/22
DRAWING: 5867SP.DWG
JOB NO.: 5867
SHEET: C6

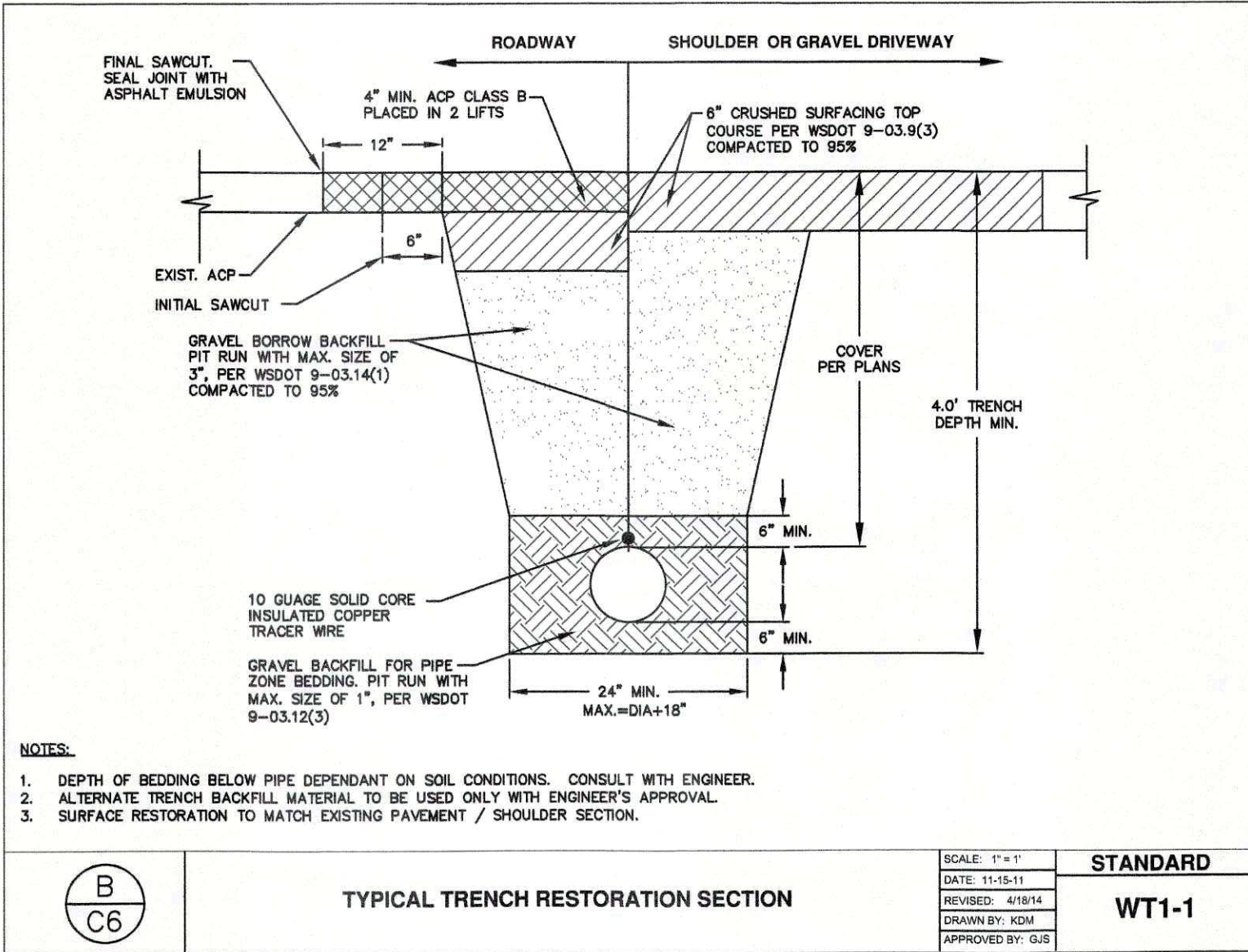


PRECAST CEMENT CONCRETE BUMPER CURB
WSDOT STANDARD PLAN m17.10-02_e

A
C6

PRECAST CEMENT CONCRETE BUMPER CURB
(NOT TO SCALE)

ATTACHMENT DETAIL



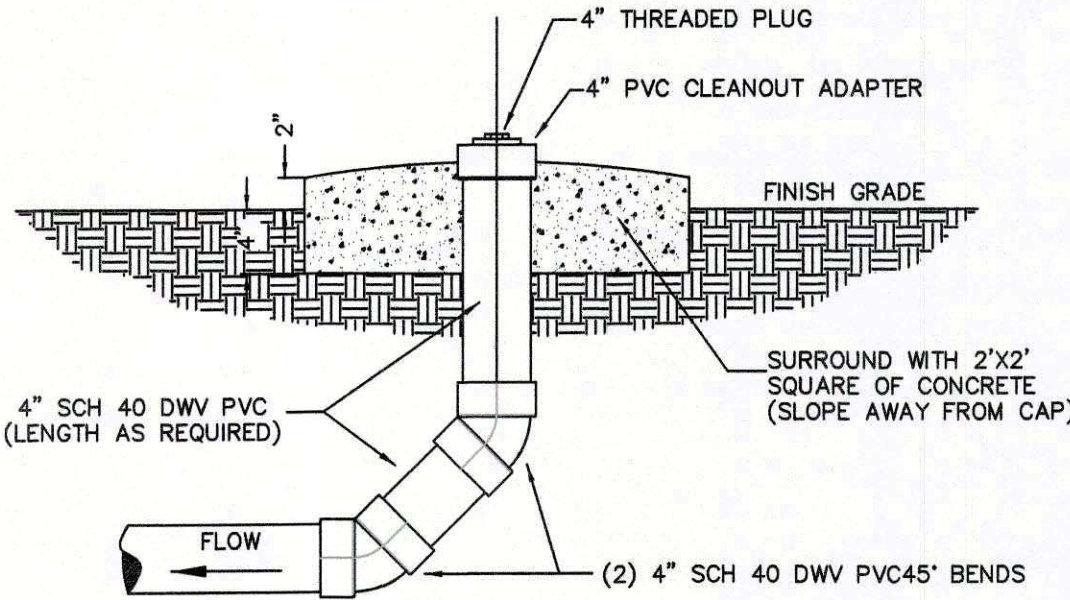
- NOTES:
1. DEPTH OF BEDDING BELOW PIPE DEPENDANT ON SOIL CONDITIONS. CONSULT WITH ENGINEER.
2. ALTERNATE TRENCH BACKFILL MATERIAL TO BE USED ONLY WITH ENGINEER'S APPROVAL.
3. SURFACE RESTORATION TO MATCH EXISTING PAVEMENT / SHOULDER SECTION.

B
C6

TYPICAL TRENCH RESTORATION SECTION

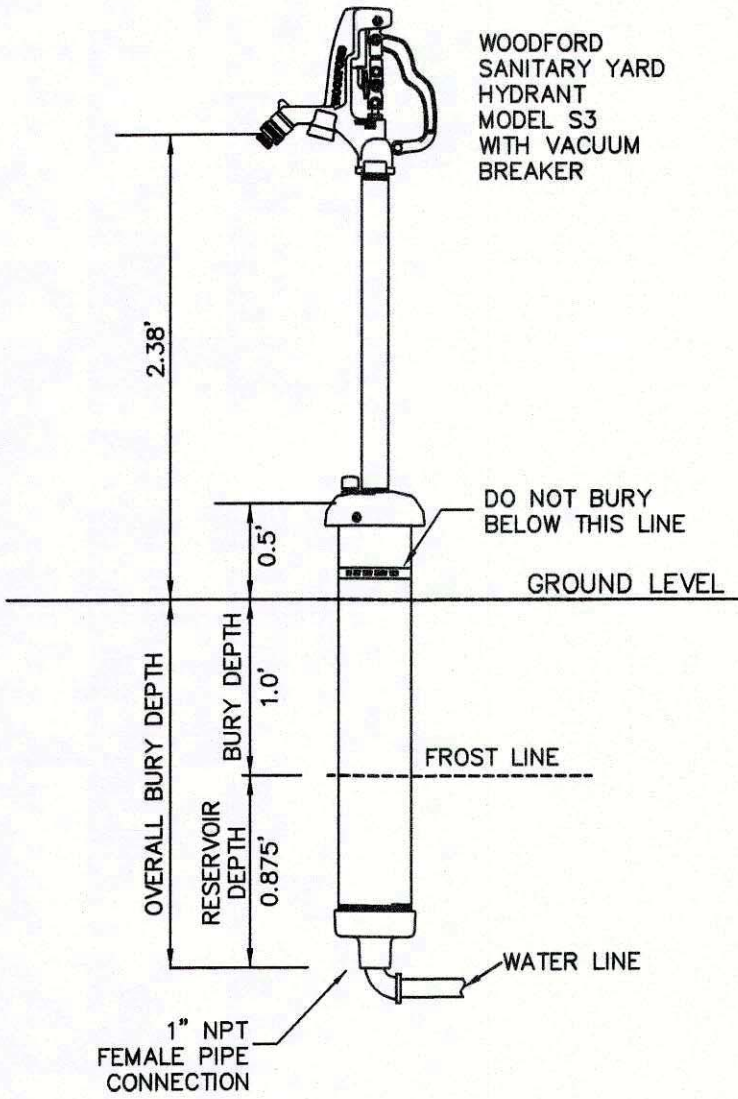
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DATE: 11/15/11
REVISED: 4/18/14
DRAWN BY: KDM
APPROVED BY: GJE

STANDARD
WT1-1



C
C6

4" RV SEWER HOOK-UP
NOT TO SCALE



D
C6

RV HYDRANT
NOT TO SCALE

E
C6

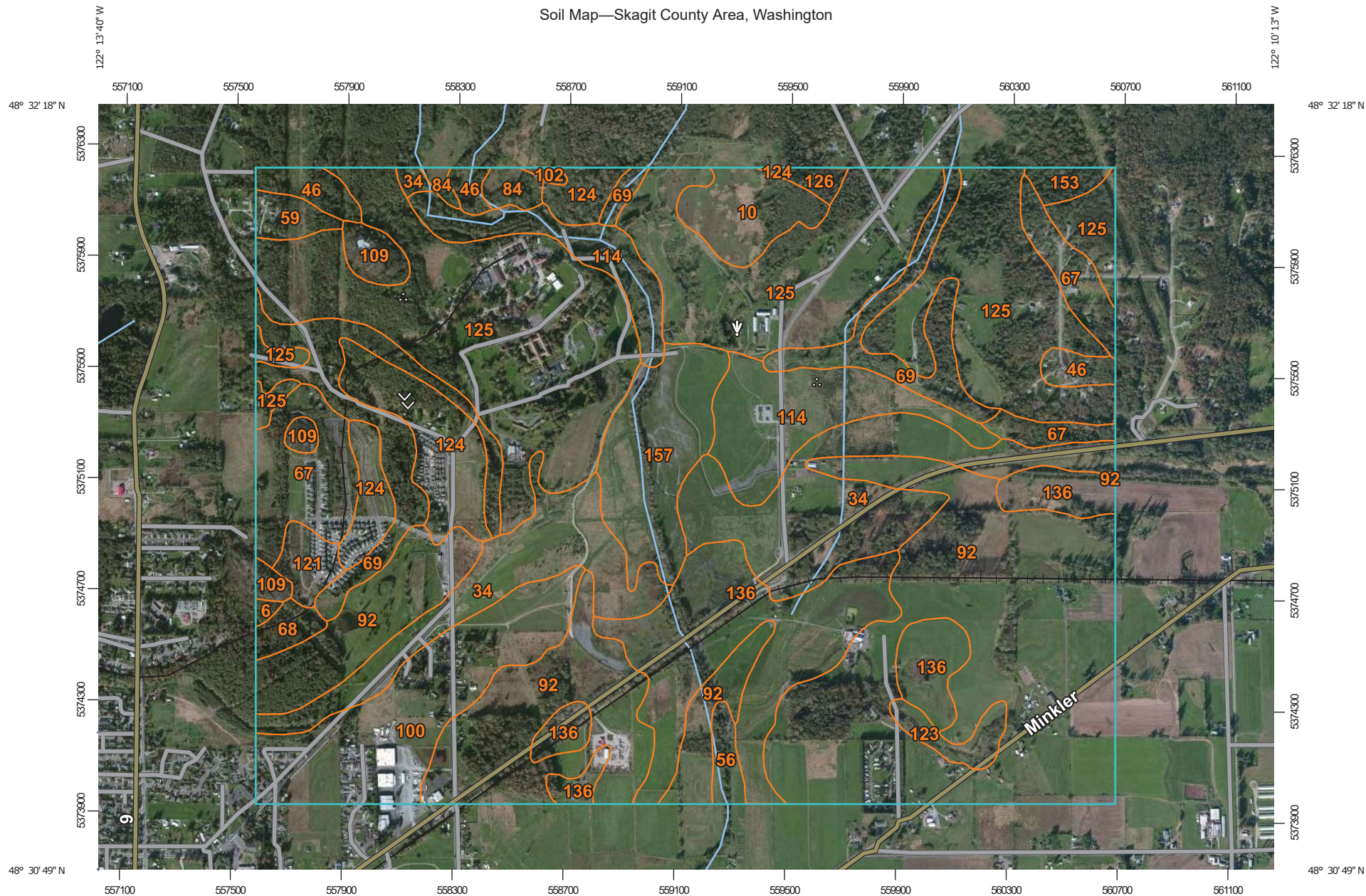
NOT USED
NOT TO SCALE



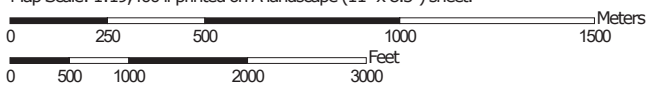
APPENDIX D

SCS SOIL DATA

Soil Map—Skagit County Area, Washington



Map Scale: 1:19,400 if printed on A landscape (11" x 8.5") sheet.



Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 10N WGS84




**Natural Resources
Conservation Service**

Web Soil Survey
National Cooperative Soil Survey

4/12/2021
Page 1 of 3

MAP LEGEND

Area of Interest (AOI)

 Area of Interest (AOI)

Soils

 Soil Map Unit Polygons

 Soil Map Unit Lines

 Soil Map Unit Points

Special Point Features



Blowout



Borrow Pit



Clay Spot



Closed Depression



Gravel Pit



Gravelly Spot



Landfill



Lava Flow



Marsh or swamp



Mine or Quarry



Miscellaneous Water



Perennial Water



Rock Outcrop



Saline Spot



Sandy Spot



Severely Eroded Spot



Sinkhole



Slide or Slip



Sodic Spot



Spoil Area



Stony Spot



Very Stony Spot



Wet Spot



Other



Special Line Features

Water Features



Streams and Canals

Transportation



Rails



Interstate Highways



US Routes



Major Roads



Local Roads

Background



Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:24,000.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service

Web Soil Survey URL:

Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Skagit County Area, Washington

Survey Area Data: Version 20, Jun 5, 2020

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Jul 9, 2010—Aug 28, 2011

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
6	Barneston gravelly ashy loam, 8 to 30 percent slopes	1.5	0.1%
10	Bellingham silt loam	29.8	1.7%
34	Cokedale silt loam	168.2	9.5%
46	Dystic Xerochrepts, 45 to 70 percent slopes	22.8	1.3%
56	Field silt loam	8.4	0.5%
59	Giles silt loam	9.6	0.5%
67	Hoogdal silt loam, 8 to 15 percent slopes	67.4	3.8%
68	Hoogdal silt loam, 15 to 30 percent slopes	8.1	0.5%
69	Hoogdal silt loam, 30 to 60 percent slopes	90.3	5.1%
84	Kline very gravelly sandy loam, 0 to 8 percent slopes	9.4	0.5%
92	Minkler silt loam	406.1	23.0%
100	Nargar loam, 0 to 8 percent slopes	93.1	5.3%
102	Norma silt loam	1.5	0.1%
109	Rock outcrop	16.6	0.9%
114	Samish silt loam	90.4	5.1%
121	Sehome gravelly loam, 15 to 30 percent slopes	11.6	0.7%
123	Skagit silt loam	11.6	0.7%
124	Skipopa silt loam, 0 to 3 percent slopes	67.5	3.8%
125	Skipopa silt loam, 3 to 8 percent slopes	421.9	23.9%
126	Skiyou gravelly silt loam, 3 to 15 percent slopes	4.5	0.3%
136	Sumas silt loam	153.4	8.7%
153	Vanzandt very gravelly loam, 0 to 15 percent slopes	7.1	0.4%
157	Wickersham silt loam, 0 to 8 percent slopes	61.9	3.5%
Totals for Area of Interest		1,762.8	100.0%

Skagit County Area, Washington

114—Samish silt loam

Map Unit Setting

National map unit symbol: 2hs2

Elevation: 50 to 400 feet

Mean annual precipitation: 35 to 60 inches

Mean annual air temperature: 48 to 52 degrees F

Frost-free period: 160 to 200 days

Farmland classification: Prime farmland if drained

Map Unit Composition

Samish, drained, and similar soils: 95 percent

Minor components: 5 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Samish, Drained

Setting

Landform: Terraces

Parent material: Alluvium derived from phyllite and talc

Typical profile

H1 - 0 to 8 inches: silt loam

H2 - 8 to 23 inches: silt loam

H3 - 23 to 60 inches: stratified very fine sandy loam to silt loam

Properties and qualities

Slope: 0 to 3 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Somewhat poorly drained

Capacity of the most limiting layer to transmit water

(Ksat): Moderately high (0.20 to 0.57 in/hr)

Depth to water table: About 12 to 18 inches

Frequency of flooding: OccasionalNone

Frequency of ponding: None

Available water capacity: High (about 11.4 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 4w

Hydrologic Soil Group: C/D

Forage suitability group: Seasonally Wet Soils (G002XN202WA)

Other vegetative classification: Seasonally Wet Soils
(G002XN202WA)

Hydric soil rating: Yes

Minor Components

Samish, undrained

Percent of map unit: 5 percent

Other vegetative classification: Wet Soils (G002XN102WA)

Hydric soil rating: Yes

Data Source Information

Soil Survey Area: Skagit County Area, Washington

Survey Area Data: Version 20, Jun 5, 2020

Skagit County Area, Washington

125—Skipopa silt loam, 3 to 8 percent slopes

Map Unit Setting

National map unit symbol: 2hsg

Elevation: 150 to 450 feet

Mean annual precipitation: 30 to 50 inches

Mean annual air temperature: 48 to 50 degrees F

Frost-free period: 160 to 200 days

Farmland classification: Farmland of statewide importance

Map Unit Composition

Skipopa and similar soils: 95 percent

Minor components: 5 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Skipopa

Setting

Landform: Terraces

Parent material: Volcanic ash and loess over glaciolacustrine deposits

Typical profile

H1 - 0 to 8 inches: ashy silt loam

H2 - 8 to 16 inches: silt loam

H3 - 16 to 60 inches: silty clay

Properties and qualities

Slope: 3 to 8 percent

Depth to restrictive feature: 12 to 20 inches to abrupt textural change

Drainage class: Somewhat poorly drained

Capacity of the most limiting layer to transmit water (Ksat): Very low (0.00 in/hr)

Depth to water table: About 12 to 24 inches

Frequency of flooding: None

Frequency of ponding: None

Available water capacity: Low (about 4.8 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 4w

Hydrologic Soil Group: D

Forage suitability group: Seasonally Wet Soils (G002XN202WA)

Other vegetative classification: Seasonally Wet Soils (G002XN202WA)

Hydric soil rating: No

Minor Components

Bellingham, undrained

Percent of map unit: 5 percent

Landform: Depressions

Other vegetative classification: Wet Soils (G002XN102WA)

Hydric soil rating: Yes

Data Source Information

Soil Survey Area: Skagit County Area, Washington

Survey Area Data: Version 20, Jun 5, 2020

Skagit County Area, Washington

157—Wickersham silt loam, 0 to 8 percent slopes

Map Unit Setting

National map unit symbol: 2htl

Elevation: 150 to 400 feet

Mean annual precipitation: 55 to 75 inches

Mean annual air temperature: 48 to 50 degrees F

Frost-free period: 170 days

Farmland classification: All areas are prime farmland

Map Unit Composition

Wickersham and similar soils: 90 percent

Minor components: 10 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Wickersham

Setting

Landform: Terraces, alluvial fans

Parent material: Alluvium derived from phyllite

Typical profile

H1 - 0 to 7 inches: ashy silt loam

H2 - 7 to 24 inches: silt loam

H3 - 24 to 60 inches: extremely channery sand

Properties and qualities

Slope: 0 to 8 percent

Depth to restrictive feature: 20 to 40 inches to strongly contrasting textural stratification

Drainage class: Well drained

Capacity of the most limiting layer to transmit water

(Ksat): Moderately high to high (0.57 to 1.98 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None

Frequency of ponding: None

Available water capacity: Low (about 4.8 inches)

Interpretive groups

Land capability classification (irrigated): 2e

Land capability classification (nonirrigated): 2e

Hydrologic Soil Group: B

Forage suitability group: Droughty Soils (G002XN402WA)

Other vegetative classification: Droughty Soils (G002XN402WA)

Hydric soil rating: No

Minor Components

Samish, undrained

Percent of map unit: 5 percent

Landform: Terraces

Other vegetative classification: Wet Soils (G002XN102WA)

Hydric soil rating: Yes

Mukilteo

Percent of map unit: 5 percent

Landform: Depressions

Other vegetative classification: Wet Soils (G002XF103WA)

Hydric soil rating: Yes

Data Source Information

Soil Survey Area: Skagit County Area, Washington

Survey Area Data: Version 20, Jun 5, 2020

Skagit County Area, Washington

34—Cokedale silt loam

Map Unit Setting

National map unit symbol: 2hvj

Elevation: 120 to 1,200 feet

Mean annual precipitation: 45 to 80 inches

Mean annual air temperature: 48 to 52 degrees F

Frost-free period: 160 to 220 days

Farmland classification: Prime farmland if drained

Map Unit Composition

Cokedale and similar soils: 95 percent

Minor components: 5 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Cokedale

Setting

Landform: Flood plains

Parent material: Alluvium derived from phyllite

Typical profile

H1 - 0 to 4 inches: silt loam

H2 - 4 to 27 inches: silt loam

H3 - 27 to 45 inches: sand

H4 - 45 to 60 inches: stratified loamy sand to very channery loamy sand

Properties and qualities

Slope: 0 to 3 percent

Depth to restrictive feature: 20 to 40 inches to strongly contrasting textural stratification

Drainage class: Somewhat poorly drained

Capacity of the most limiting layer to transmit water

(Ksat): Moderately high to high (0.57 to 1.98 in/hr)

Depth to water table: About 6 to 24 inches

Frequency of flooding: OccasionalNone

Frequency of ponding: None

Available water capacity: Low (about 5.1 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 4w

Hydrologic Soil Group: B/D

Forage suitability group: Seasonally Wet Soils (G002XN202WA)

Other vegetative classification: Seasonally Wet Soils (G002XN202WA)

Hydric soil rating: No

Minor Components

Sumas, undrained

Percent of map unit: 5 percent

Landform: Tidal flats

Other vegetative classification: Wet Soils (G002XN102WA)

Hydric soil rating: Yes

Data Source Information

Soil Survey Area: Skagit County Area, Washington

Survey Area Data: Version 20, Jun 5, 2020