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## ADDENDUM NO. 3

### WASHINGTON STATE PARKS AND RECREATION COMMISSION KLUCKITAT STATE PARK TRAIL SWALE CANYON TRAIL IMPROVEMENTS EW-C6526

DATE: March 01, 2024

**ATTENTION TO PLANHOLDERS OF RECORD.** The following revisions are hereby made a part of the Contract Documents. Please be sure to acknowledge all Addenda on the Bid Form.

#### **SPECIFICATIONS**

**1. Project Manual:**

The following attachments should replace the Specifications within the Project Manual are provided to be incorporated into bid proposals and the subsequent construction.

Attachments:

- SECTION 015000 – TEMPORARY FACILITIES AND CONTROLS
- SECTION 024119 – SELECTIVE STRUCTURE DEMOLITION
- SECTION 061000 – ROUGH CARPENTRY
- SECTION 323400 – PREFABRICATED BRIDGE

#### **DRAWINGS**

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- The updated set of drawings is attached to this addendum. Bidders must discard the previous versions of the drawings and rely solely on the attached updated set for their proposals.
- Sheet 7 of 22

— Sheet 10 of 22

— Sheet 22 of 22

**ADDITIONAL INFORMATION**

— Pre-Bid Walk Through Questions & Answers

*Brett Taylor*  
\_\_\_\_\_  
Brett Taylor, Procurement Coordinator  
Contracts and Grants Program

03/01/24  
\_\_\_\_\_  
Date

**END OF ADDENDUM NO. 3**

**KLICKITAT TRAIL STATE PARK  
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SECTION 015000 – TEMPORARY FACILITIES AND CONTROLS

PART 1 - GENERAL

1.1 PROTECTION OF PROPERTY AND EXISTING FACILITIES

- A. Provide protections necessary to prevent damage to park, City, County, and WSDOT property and facilities.
- B. Only rubber-tired equipment are permitted to operate on paved park roads.
- C. Protect existing trees and other vegetation indicated to remain in place against cutting, breaking or skinning of roots, skinning and bruising of bark, or smothering of trees by stockpiling materials within dripline. Provide necessary temporary guards to protect trees and vegetation to remain in place.
- D. Make every effort to minimize damage and cutting major tree roots during excavation operations. Provide protection for larger tree roots exposed or cut during excavation operations.

1.2 ENVIRONMENTAL PROTECTIONS

- A. Scope:
  - 1. Provide labor, materials, equipment and perform Work required for protection of environment during and as a result of construction operations under contract.
- B. Applicable Regulations:
  - 1. Comply with applicable federal, state and local laws and regulations concerning environmental pollution control and abatement, and specific requirements elsewhere in specifications and drawings to prevent and provide for control of environmental pollution.
  - 2. Maintenance of Storage Area
    - a. Keep fencing in a state of good repair and proper alignment. Grassed or unpaved areas, which are not established roadways, will be covered with a layer of gravel as necessary to prevent rutting and the tracking of mud onto paved or established roadways, should the Contractor elect to traverse them with construction equipment or other vehicles; gravel gradation will be at the Contractor's discretion. Mow and maintain grass located within the boundaries of the construction site for the duration of the project.
    - b. Grass and vegetation along fences, buildings, under trailers, and in areas not accessible to mowers will be edged or trimmed neatly.
    - c. Additional specific requirements indicated on the drawings apply to the laydown/staging areas at Wahkiakus and Warwick.
- C. Fire Prevention Control and Countermeasures Plan

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1. The Contractor shall prepare and implement a project-specific fire prevention, control, and countermeasures plan (FPCC Plan) for the duration of the project. The Contractor shall submit a Type 2 Working Drawing (per WSDOT Standard Specifications) no later than the date of the preconstruction conference.
  - a. FPCC Implementation Requirements. The Contractor's FPCC Plan shall be fully implemented at all times. The Contractor shall update the FPCC Plan throughout project construction so that the plan reflects actual site conditions and practices. The Contractor shall update the FPCC Plan at least annually and maintain a copy of the updated FPCC Plan that is available for inspection on the project site. Revisions to the FPCC Plan and the Industrial Fire Precaution Level (IFPL) shall be discussed at the weekly project safety meetings.
    - 1) The FPCC Plan shall include the following: 1. The names, titles, and contact information for the personnel responsible for implementing and updating the plan. 2. The names and telephone numbers of the Federal, State, and local agencies the Contractor shall notify in the event of a fire. 3. All potential fire causing activities such as welding, cutting of metal, blasting, fueling operations, etc. 4. The location of fire extinguishers, water, shovels, and other firefighting equipment. 5. The response procedures the Contractor shall follow in the event of a fire.
    - 2) Most of Washington State is covered under the IFPL system which, by law, is managed by the Department of Natural Resources (DNR). In some cases jurisdiction is transferred to the United States Forest Service (USFS) or to the local fire authority. It is the Contractor's responsibility to be familiar with the IFPL requirements and to verify whether or not IFPL applies to the specific project.
    - 3) If the Contractor wishes to continue a work activity that is prohibited under an industrial fire precaution level, the Contractor shall obtain a waiver from the fire authority with jurisdiction and provide a copy to the Engineer prior to continuation of work on the project.
    - 4) If the IFPL requirements prohibit the Contractor from performing Work the Contractor may be eligible for an unworkable day in accordance with the General Conditions.
    - 5) The Contractor shall comply with the requirements of these provisions at no additional cost to the Contracting Agency.

D. Protection of Land Resources:

1. Give special attention to the effect of Contractor's operations upon the project area and the surroundings. Take special care to maintain natural surroundings undamaged and conduct the Work in compliance with following requirements:
  - a. The Contractor shall flag all trees to be removed, proposed laydown areas, and all areas of clearing and grubbing for review by the Owner and/or by permitting agencies. The flagged items must be approved by the Owner PRIOR to the Contractor proceeding with Work. Clearing, grubbing, and tree removal is to be kept

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to the minimum necessary to complete the Work. Access to the improvement areas is limited to the trail surface. Staging, vehicle access or any other disturbance other than what is specifically indicated in the plans and specifications is prohibited.

- b. When Work is completed, remove storage and other Contractor buildings and facilities, and sites restored to a neat and presentable condition appropriate to surrounding landscape, unless otherwise specified. Remove debris resulting from Contractor's operation.
  - c. Store petroleum products, industrial chemicals and similar toxic or volatile materials in durable containers approved by the Authority Having Jurisdiction and located in areas where accidental spillage will not enter water. Store substantial quantities of materials in an area surrounded by containment dikes of sufficient capacity to contain an aggregate capacity of tanks.
- E. Protection and Restoration of Property:
- 1. Preserve public and private property, monuments, power and telephone lines, other utilities, prevention of damage to natural environment, etc., insofar as they may be endangered by Work.
  - 2. When or where any direct or indirect damage or injury is done to public or private property by or on account of any act, omission, neglect or misconduct in execution of Work, or in consequence of non-execution of Contractor, restore, or have restored at Contractor's expense, such property to a condition similar and equal to that existing before such damage or injury was done, by repairing, rebuilding, or otherwise restoring same, or make good damage or injury in some other manner acceptable to Project Representative.
- F. Protection of Water Resources:
- 1. Perform Work not to create conditions injurious to fish or to their habitat, or which would make water unsuitable for private, municipal, or industrial use.
  - 2. Take special measures to prevent chemicals, fuels, oils, grease, bituminous materials, waste washings, herbicides, insecticides, lime, wet concrete, cement, silt or organic or other deleterious material from entering waterways.
  - 3. Dispose of offsite, in a lawful manner conforming to applicable local, state and federal laws wastes, effluents, trash, garbage, oil, grease, chemicals, cement, bitumen, etc., petroleum, and chemical products or wastes containing such products. Furnish Owner with documentation showing compliance with this requirement.
  - 4. Conform to applicable local, state and federal laws for disposal of effluents. Dispose of waters used to wash down equipment in a manner to prevent their entry into a waterway. If waste material is dumped in unauthorized areas, remove material and restore area to condition of adjacent, undisturbed area. If necessary, excavate contaminated ground and disposed of as directed by Project Representative and replace with suitable compacted fill material with surface restored to original condition.
- G. Dust Control:
- 1. Dust control is required on roads used by Contractor. Maintain excavations, embankments, stockpiles, roads, plant sites, waste areas, borrow areas and other Work areas within or without the Project boundaries free from dust which would cause a hazard or nuisance to others. Provide approved, temporary methods of stabilization consisting of sprinkling, chemical treatment, light bituminous treatment or equal methods to control dust. If

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sprinkling is used, sprinkling must be repeated at intervals to keep disturbed areas at least damp.

H. Temporary Water Pollution/Erosion Controls:

1. Provide for prevention, control and abatement of soil erosion and water pollution within the limits of Project, to prevent and/or minimize damage to adjacent bodies of water and Work itself.
2. Coordinate temporary soil erosion/water pollution control measures with permanent drainage and erosion control Work to ensure effective and continuous controls are maintained throughout Project life.
3. Develop a written spill prevention and response plan for construction activities adjacent to/and over any surface waters and/or wetlands. "Adjacent" means within 150' as measured on a horizontal plane. Plan addresses:
  - a. Narrative description of the proposed construction methods, materials, and equipment to be used for Work
  - b. Assessment and listing of hazardous materials and/or potential contaminants that could be released during execution of Work
  - c. SDS sheets with cleanup instructions for potential contaminants
  - d. Spill response/cleanup materials and instructions for use
  - e. Procedures and precautions to prevent spills
  - f. Spill response training for on-site personnel, including the location of the containment and cleanup materials at site
  - g. Emergency notification in case of a spill or release. Park Manager and Project Representative must be included on the list of notified.
4. Comply with applicable codes and ordinances for spill prevention and response plan and submit a copy to Project Representative before commencing Work adjacent to or over any waters and/or wetlands.

I. Emergency Spill Response Notification

1. Under state law, Ecology must be notified when any amount of regulated waste or hazardous material that poses an imminent threat to life, health, or the environment is released to the air, land, or water, or whenever oil is spilled on land or to waters of the state. The spiller is always responsible for reporting a spill. Failure to report a spill in a timely manner may result in enforcement actions. If you are not responsible for a spill, making the initial notification does not make you liable. However, please consult with Ecology's response team before attempting any type of response or cleanup. Also notify Park Manager and Project Representative.
2. If oil or hazardous materials are spilled to state waters, the spiller must notify both federal and state spill response agencies. The federal agency is the National Response Center at 1-800-424-8802. For state notification, call the Washington Emergency Management Division (EMD) at 1-800-258-5990 or 1-800-OILS-911 AND the appropriate Ecology regional office for your county (see numbers below). An Ecology spill responder will normally call reporting party back to gather more information. The agency will then determine its response actions. Also notify Park Manager and Project Representative.
3. Ecology Regional Spill Reporting Numbers:
  - a. Eastern Regional Office: (509) 329-3400  
TDD: Washington Relay Service 711 or (800) 833-6388.

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**1.3 PUBLIC CONVENIENCE AND SAFETY**

- A. Properly warn the public of construction equipment and activities, open trenches, and/or other unsafe conditions by providing all necessary warning equipment. Equipment includes warning signs, barricades, fencing, flashing lights and traffic control personnel (flaggers).
- B. Conduct operations with the least possible obstruction and inconvenience to the public in accordance with appropriate Section(s) of the WSDOT "Standard Specifications".
- C. The Contractor shall be responsible for providing adequate safeguards, safety devices, protective equipment, and any other needed actions to protect the life, health, and safety of the public in connection with the performance of the Work covered by the Contract. The Contractor shall perform any measures or actions the Engineer may deem necessary to protect the public. The responsibility and expense to provide this protection shall be the Contractor's except that which is to be furnished by the Contracting Agency as specified in other sections of these Specifications.

**1.4 PROTECTION OF WORK**

- A. Protect Work, materials, and equipment against damage, weather conditions, or other hazards. Equipment, Work or materials found damaged or in other than new condition will be rejected by Project Representative.

**1.5 REMOVAL AND REPLACEMENT OF STATE-OWNED ITEMS**

- A. Should any state-owned items, such as signs, bumper blocks, or related items, interfere with the proper construction process, remove and reinstall such items to the satisfaction of Project Representative.

**1.6 USE OF PARK SPACE**

- A. Only in areas of park that Contract covers and only during active inclusive dates of Contract.
- B. Contractor vehicle and equipment parking only as designated by Project Representative.
- C. Contractor will be issued temporary parking passes for construction crew, vehicles and equipment, valid for the duration of the contract only.

**1.7 ROADWAY CLOSURE**

- A. The Klickitat Trail and the associated State Parks Right of way will be closed to public access and in control of the contractor from the Notice to Proceed to Substantial Completion from the Wahkiakus Trailhead to Harms Road as well as the portion of trail and right of way associated with the Warwick Laydown Area. However, the Contractor must provide/allow/maintain safe vehicle access for one private property owner and their guests along the trail prism (maximum 3 vehicles per day) between the intersection of the Klickitat trail and Bumpy road (approximate trail mile post 9.8) and the area just south of trestle 8 (approximate trail mile post 8.8) shown on sheet 7 of 22 during modern rifle deer season between 10/10/2024 and 10/27/2024.

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1.8 UTILITIES

- A. Existing subsurface utilities on Project are represented on Contract Drawings to the best of the Commission's knowledge. It is Contractor's responsibility to verify existence of utilities, and determine exact location and depth. Maintain use of utilities during construction through temporary connections or other measures suitable to Commission. No extra compensation will be made for removal, temporary connections, relocations, or replacement of utilities.

1.9 SERVICE OUTAGES

- A. Coordinate and schedule outages for, power, water, and sewer service connections/repairs with Park Manager, so as not to inconvenience park staff or public.

1.10 SANITARY FACILITIES

- A. Provide temporary toilets, wash facilities, and drinking water for use of construction personnel. Comply with requirements of Authorities Having Jurisdiction for type, number, location, operation, and maintenance of fixtures and facilities.

PART 2 - PRODUCTS (NOT USED)

PART 3 - EXECUTION (NOT USED)

END OF SECTION



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SECTION 024119 - SELECTIVE STRUCTURE DEMOLITION

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:

1. Demolishing existing elements of the structure, hardware, and designated construction.
2. Removing designated items for Owner's retention.
3. Protecting items designated to remain.
4. Removing demolished materials.

1.2 SUBMITTALS

A. Section 013300 - Submittal Procedures: Requirements for submittals.

B. Shop Drawings:

1. Indicate demolition and removal sequence.
2. Indicated location of items designated for Owner's retention.
3. Indicate location and construction of temporary work.

1.3 QUALITY ASSURANCE

A. Conform to Federal, State, and local laws, ordinances, and regulations for demolition work, dust control, products requiring electrical disconnection and re-connection.

B. Conform to Federal, State, and local laws, ordinances, and regulations for procedures when hazardous or contaminated materials are discovered.

1. Contractor shall assume existing paint on all existing structural steel members is lead based.
2. Contractor shall assume all existing railroad ties to be removed are creosoted timber.

1.4 SCHEDULING

A. Cooperate with Owner in scheduling noisy operations and waste removal that may impact Owner's operation and use of any adjoining spaces.

1.5 PROJECT CONDITIONS

A. Cease operations immediately if structure appears to be in danger and notify Engineer. Do not resume operations until directed.

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PART 2 - PRODUCTS (NOT USED)

PART 3 - EXECUTION

3.1 PREPARATION

- A. Notify affected utility companies before starting work and comply with their requirements.
- B. Mark location and termination of utilities.
- C. Erect, and maintain temporary barriers and security devices, including warning signs and lights, and similar measures, for protection of the public, Owner, and existing improvements indicated to remain.
- D. Prevent movement of structure; provide temporary bracing and shoring required to ensure safety of existing structure.

3.2 SALVAGE REQUIREMENTS

- A. Coordinate with Owner to identify components required to be removed and delivered to Owner.
- B. Tag components Owner designates for salvage.
- C. Protect designated salvage items from demolition operations until items can be removed.
- D. Carefully remove components indicated to be salvaged.
- E. Disassemble as required to permit removal from structures.
- F. Deliver salvaged items to Owner. Obtain signed receipt from Owner.

3.3 DEMOLITION

- A. Conduct demolition to minimize interference with adjacent areas.
- B. Do not close or obstruct adjacent roadways without permits.
- C. Cease operations immediately when structure appears to be in danger and notify the Engineer and Owner.
- D. Cap and identify abandoned utilities at termination points when utility is not completely removed. Annotate Record Drawings indicating location and type of service for capped utilities remaining after demolition.
- E. Carefully remove components indicated to be reused or retained by Owner.

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- F. Demolish in orderly and careful manner. Protect existing improvements, and supporting structural members.
- G. Remove all demolished materials from site except where specifically noted otherwise. Do not burn or bury materials on site.
- H. All hazardous materials shall be hauled to and disposed of at a site licensed for such materials.
- I. Remove materials as Work progresses. Upon completion of Work, leave areas in clean condition.
- J. Remove temporary Work.

3.4 SCHEDULES

- A. Remove the following materials for Owner's retention. Deliver to location designated by Owner/Engineer:
  - 1. A total of at least (6) timber girders with a minimum length of twenty (20) feet each shall be salvaged from the existing trestles being demolished (Trestle #7 and #9). The girders shall be delivered to Parks' property located near the intersection of Highway 142 and Durkee Road in Klickitat approximately 3 miles west of the Wahkiacus Laydown Area at the north end of the project.

END OF SECTION

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**DIVISION 6 – WOOD, PLASTICS, AND COMPOSITES**

SECTION 061000 - ROUGH CARPENTRY

PART 1 - GENERAL

1.1 SUMMARY

- A. Section includes miscellaneous wood framing and glulam deck panels; preservative treatment of wood.

1.2 REFERENCES

A. American National Standards Institute:

1. ANSI A135.4 - Basic Hardboard.
2. ANSI A208.1 - Mat-Formed Wood Particleboard.

B. American Wood-Preservers' Association:

1. AWPA M4 - Standard for the Care of Preservative-Treated Wood Products.
2. AWPA U1 - Use Category System: User Specification for Treated Wood.

C. ASTM International:

1. ASTM A153/A153M - Standard Specification for Zinc Coating (Hot-Dip) on Iron and Steel Hardware.
2. ASTM B695 - Standard Specification for Coatings of Zinc Mechanically Deposited on Iron and Steel
3. ASTM C1177/C1177M - Standard Specification for Glass Mat Gypsum Substrate for Use as Sheathing.
4. ASTM C1280 - Standard Specification for Application of Gypsum Sheathing.
5. ASTM C1396/C1396M - Standard Specification for Gypsum Board.
6. ASTM E84 - Standard Test Method for Surface Burning Characteristics of Building Materials.
7. ASTM E119 - Standard Test Methods for Fire Tests of Building Construction and Materials.
8. ASTM F1667 - Standard Specification for Driven Fasteners: Nails, Spikes, and Staples.

D. Forest Stewardship Council:

1. FSC Guidelines - Forest Stewardship Council Guidelines.

E. Green Seal:

1. GS-36 - Aerosol Adhesives.

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**DIVISION 6 – WOOD, PLASTICS, AND COMPOSITES**

- F. National Lumber Grades Authority:
    - 1. NLGA - Standard Grading Rules for Canadian Lumber.
  - G. Northeastern Lumber Manufacturers Association:
    - 1. NELMA - Standard Grading Rules for Northeastern Lumber.
  - H. The Redwood Inspection Service:
    - 1. RIS - Standard Specifications for Grades of California Redwood Lumber.
  - I. South Coast Air Quality Management District:
    - 1. SCAQMD Rule 1168 - Adhesive and Sealant Applications.
  - J. Southern Pine Inspection Bureau:
    - 1. SPIB - Standard Grading Rules for Southern Pine Lumber.
  - K. U.S. Department of Commerce National Institute of Standards and Technology:
    - 1. DOC PS 1 - Construction and Industrial Plywood.
    - 2. DOC PS 2 - Performance Standard for Wood-Based Structural-Use Panels.
    - 3. DOC PS 20 - American Softwood Lumber Standard.
  - L. West Coast Lumber Inspection Bureau:
    - 1. WCLIB - Standard Grading Rules for West Coast Lumber.
  - M. Western Wood Products Association:
    - 1. WWPA G-5 - Western Lumber Grading Rules.
  - N. Western Wood Preservers Institute:
    - 1. Best Management Practices for the Use of Treated Wood in Aquatic Environments.
- 1.3 SUBMITTALS
- A. Section 013300 - Submittal Procedures: Requirements for submittals.
  - B. Product Data: Submit technical data on wood preservative materials, and application instructions.
  - C. Manufacturer's Certificate: Certify Products meet or exceed specified requirements.

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**DIVISION 6 – WOOD, PLASTICS, AND COMPOSITES**

1.4 QUALITY ASSURANCE

- A. Perform Work in accordance with the following:
  - 1. Lumber Grading Agency: Certified by DOC PS 20.
  - 2. Lumber: DOC PS 20.

1.5 DELIVERY, STORAGE, AND HANDLING

- A. Section 016000 - Product Requirements: Product storage and handling requirements.

PART 2 - PRODUCTS

2.1 LUMBER MATERIALS

- A. Lumber Grading Rules: WWPA.
- B. Miscellaneous Framing and Decking: Douglas-Fir or Larch species, Number 1 grade or better, pressure preservative treat.

2.2 GLUE-LAMINATED DECK PANELS

- A. Glue-laminated members shall use exterior grade, wet use adhesive and be pressure treated after fabrication.
- B. Traffic surface of deck panels shall be intentionally roughened to improve traction. Roughened surface shall be equivalent to light chain saw or band-saw finish resulting in a similar finish to rough sawn lumber.
- C. Lumber shall be Douglas Fir-Larch and panels shall use a column type layup such as EWS #1 with a minimum bending strength of 1450 psi.
- D. Appearance grade shall be either Industrial or Architectural. Variations between laminations shall be limited to a maximum offset of ¼” in order to meet ADA requirements.

2.3 ACCESSORIES

- A. Fasteners and Anchors:
  - 1. Fasteners: Refer to Section 051200 - Structural Steel Framing.

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**DIVISION 6 – WOOD, PLASTICS, AND COMPOSITES**

2.4 FACTORY WOOD TREATMENT

- A. Preservative treatments for timber and lumber shall be per section 9-09.3 of the WSDOT Standard Specifications.
- B. Treat timber members according to “Best Management Practices for the Use of Treated Wood in Aquatic Environments” as published by the Western Wood Preservers Institute.

PART 3 - EXECUTION

3.1 FRAMING

- A. No full-length field ripping of pressure treated lumber is allowed unless approved by the Engineer. Holes for bolted member connections can be field bored.
- B. Set members level and plumb, in correct position.
- C. Fasten framing in accordance with the Drawings.
- D. Make provisions for erection loads, and for sufficient temporary bracing to maintain structure safe, plumb, and in alignment until completion of erection and installation of permanent bracing.
- E. Place horizontal members, crown side up.
- F. Construct framing members full length without splices.

3.2 SITE APPLIED WOOD TREATMENT

- A. Treat field bored holes. Apply two coats of copper naphthenate (2% solution) to all field bored holes.
- B. Allow preservative to dry prior to erecting members.
- C. Treat timber members according to “Best Management Practices for the Use of Treated Wood in Aquatic Environments” as published by the Western Wood Preservers Institute.

3.3 TOLERANCES

- A. Section 014000 - Quality Requirements.
- B. Framing and Decking Members: 1/4-inch from indicated position, maximum.
- C. Bridge Walking Surfaces: 1/4-inch maximum gap between members, and 1/4-inch maximum elevation difference between adjacent planks/panels.

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**DIVISION 6 – WOOD, PLASTICS, AND COMPOSITES**

END OF SECTION 061000



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SECTION 323400 – PREFABRICATED BRIDGE

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:

1. Bridge design.
2. Bridge fabrication.
3. Bridge delivery and erection.
4. Bridge load rating.

1.2 REFERENCES

A. Governing Design Code:

1. American Association of State Highway and Transportation Officials (AASHTO), LRFD Bridge Design Specifications, 9th Edition, 2020 (AASHTO LRFD).

B. Other Reference Codes and Standards:

1. AASHTO/NSBA, Steel Bridge Fabrication Guide Specification, S2.1, 2018.
2. AISC, Steel Construction Manual, 15th Edition, 2017.
3. American Welding Society, Structural Welding Code, D1.5, 2015.
4. ANSI/AWC NDC-2015 National Design Specification for Wood Construction, 2015.
5. ASTM A193 - Standard Specification for Alloy-Steel and Stainless Steel Bolting Materials for High-Temperature Service.
6. ASTM A194 - Standard Specification for Carbon Steel, Alloy Steel, and Stainless Steel Nuts for Bolts for High Pressure or High Temperature Service, or Both.
7. ASTM A588 - Standard Specification for High-Strength Low-Alloy Structural Steel, up to 50 ksi Minimum Yield Point, with Atmospheric Corrosion Resistance.
8. ASTM A709 - Standard Specification for Structural Steel for Bridges.
9. ASTM A847/A847M - Standard Specification for Cold-Formed Welded and Seamless High Strength, Low Alloy Structural Tubing with Improved Atmospheric Corrosion Resistance.
10. ASTM F3125 - Standard Specification for Structural Bolts and Assemblies, Steel and Alloy Steel, Heat Treated, 120/150 ksi Minimum Tensile Strength.
11. ASTM F436 - Standard Specification for Hardened Steel Washers.

1.3 SUBMITTALS

A. Section 013300 - Submittal Procedures: Requirements for submittals.

B. Bridge Drawings and Calculations: Manufacturer shall design the prefabricated bridge and prepare engineered drawings with supporting calculations for the bridge. The drawings and

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calculations shall be stamped by a Civil or Structural Engineer licensed in the State of Washington who has a minimum of five (5) years of experience as a bridge designer.

- C. Bridge Erection Plan: Submit an erection plan for the placement of the bridge at the bridge site. Include information on joining any prefabricated modules of the bridge.
- D. Material Certificates: Submit certificates for all materials within the bridge. Traceability of heat numbers is required for all steels.
- E. Inspection Reports: Submit all inspection reports performed as part of quality control checks and non-destructive testing.

1.4 QUALITY ASSURANCE

- A. Certified Weld Inspector: Manufacturer and/or contractor shall employ a Certified Weld Inspector (CWI) with AWS QC1 endorsement.
- B. Non-Destructive Testing: All welds within the structure shall be visually inspected for conformance to the approved shop drawings.

PART 2 - PRODUCTS

2.1 WEATHERING STEEL

- A. All structural steel for the bridge shall be weathering steel meeting the requirements of ASTM A588 or ASTM A709 Grade 50W.
- B. Secondary members may be weathering steel tube sections meeting the requirements of ASTM A847.
- C. All steel shall be new.
- D. Bridge shall be provided with a minimum of three (3) girder lines as shown in the drawings. Additional girder lines may be required as determined by the contractor's design.

2.2 GLUED LAMINATED DECK PANELS

- A. Glued-laminated deck panels shall be per Section 061000 – Rough Carpentry.
- B. Provide standard galvanized steel or cast deck clips as needed for fastening deck panels to bridge girders.

2.3 FASTENERS

- A. Fasteners shall be per Section 051200 – Structural Steel Framing, unless noted otherwise.

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- B. Anchor bolts shall ASTM A193, Grade B8 or B8M stainless steel. Use ASTM A194; Grade B8 or B8M nuts and 304 or 316 SS washers to match bolts.

2.4 ELASTOMERIC BEARINGS

- A. Elastomeric pads shall be Grade 4, 60-Durometer Neoprene or natural rubber. Pads need not meet AASHTO LRFD design criteria if used only as leveling pads.

PART 3 - EXECUTION

3.1 BRIDGE DESIGN

- A. Dead Loads: Design the bridge for total dead weight plus an additional wearing surface allowance of 35 pounds per square foot on the bridge deck.
- B. Live Loads: Design the bridge for the worst case of one lane of vehicular traffic, supporting HL-93 design vehicle plus Dynamic Load Allowance with an ADTT of 100; OR 90 pounds per square foot pedestrian loading.
- C. Lateral Loads: Wind and seismic loads shall be per AASHTO LRFD. Use Site Class D and an Operational Classification of Other for seismic design.
- D. Railing: The bridge railing has been designed and shall be fabricated as shown on the project drawings. The bridge structure shall be capable of resisting Bicycle Railing Loads per AASHTO LRFD imparted upon the railing shown in the drawings.
- E. Camber: Bridge shall have a vertical camber dimension at the mid-span equal to 100% of the anticipated full dead load deflection. If beam mill camber is adequate to accommodate full dead load deflection, the fabricator shall indicate such on the shop drawings.
- F. Deflection: Deflection from live loading shall be limited to  $L/500$ .

3.2 FABRICATION

- A. Welding: Welding procedures and weld qualification test procedures shall conform to the provisions of AWS D1.5. Filler metal shall be in accordance with the applicable AWS Filler Metal Specification and shall match the corrosion properties of the base metal.
- B. Welders: Welders shall be qualified for each process and position used while fabricating the bridge. Qualification tests shall be in accordance with AWS D1.1/D1.5. All weld qualifications and records shall be kept in accordance with the Fabricator's Quality Assurance Manual.
- C. Bolted Connections: For shipping purposes, the bridge may be fabricated in sections. Sections shall be field assembled using bolted connections and or field welding as indicated on the manufacturer's shop drawings. All bolted connections are considered to be pretensioned. All bolts are to be pretensioned per the requirements of section 8.2 of the Specification for Structural Joints Using High-Strength Bolts. Recommended tightening method of all structural bolts shall be Turn-of-the-Nut Pretensioning.

**KLICKITAT TRAIL STATE PARK  
SWALE CANYON TRAIL IMPROVEMENTS**

3.3 FINISH

- A. All exposed surfaces of structural steel to be cleaned in accordance with Steel Structures Painting Council Surface Preparation Specifications No. 1, SSPC-SP1 solvent cleaning. Exposed surfaces of steel shall be defined as those surfaces seen from the deck or from the outside and bottom of the structure. All other surfaces to have standard mill finish.
- B. Bridge deck panels shall be installed with a maximum 1/4-inch gap between deck panels and a maximum deviation in surface elevations of 1/4-inch panel to panel.

3.4 DELIVERY & ERECTION

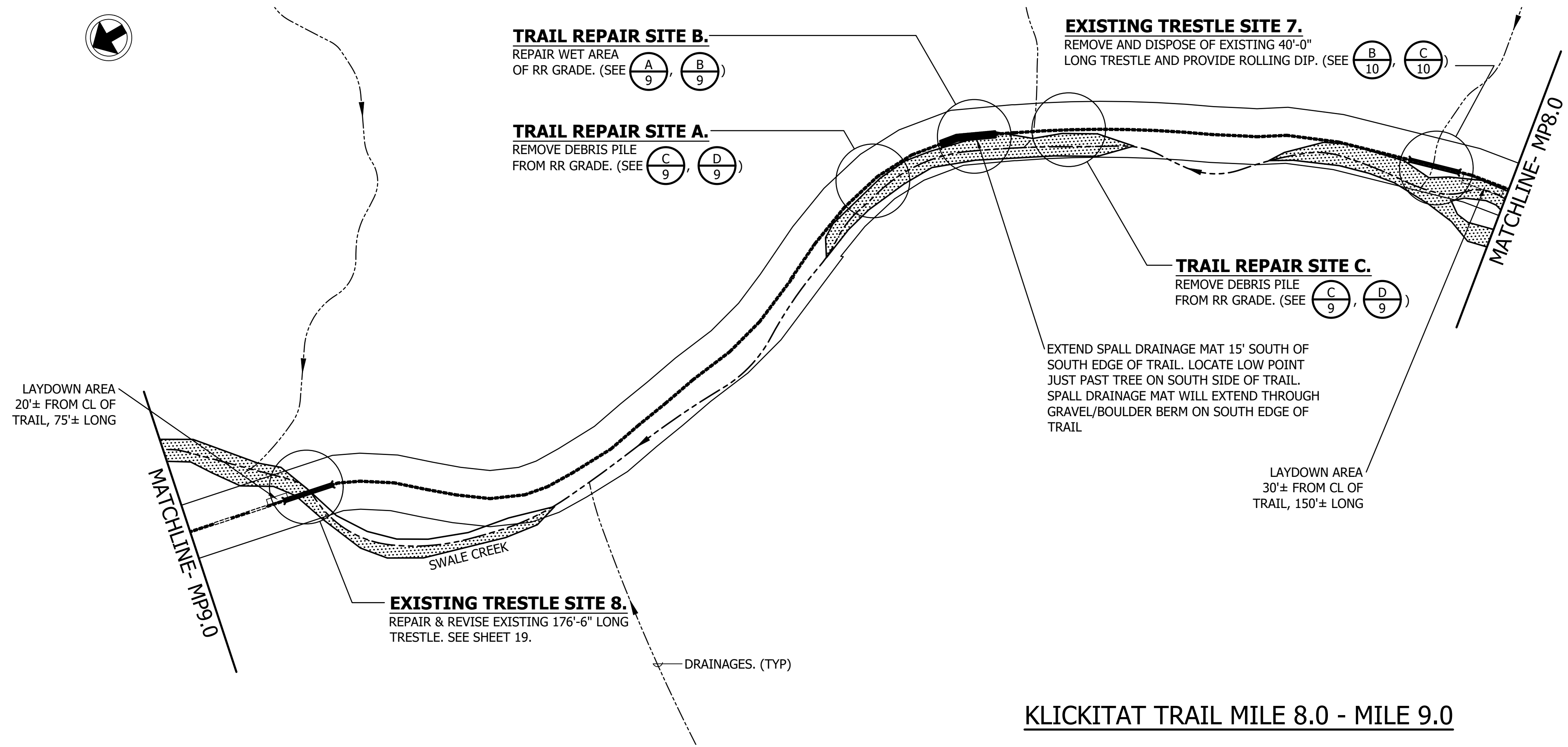
- A. Contractor is responsible for delivery of the bridge to the site. Contractor shall coordinate as needed with the bridge manufacturer.
- B. Contractor is responsible for installation of the bridge at the bridge site. Contractor shall coordinate as needed with the bridge manufacturer.
- C. Any field welding shall be performed by AWS Certified Welders.

3.5 FIELD QUALITY CONTROL

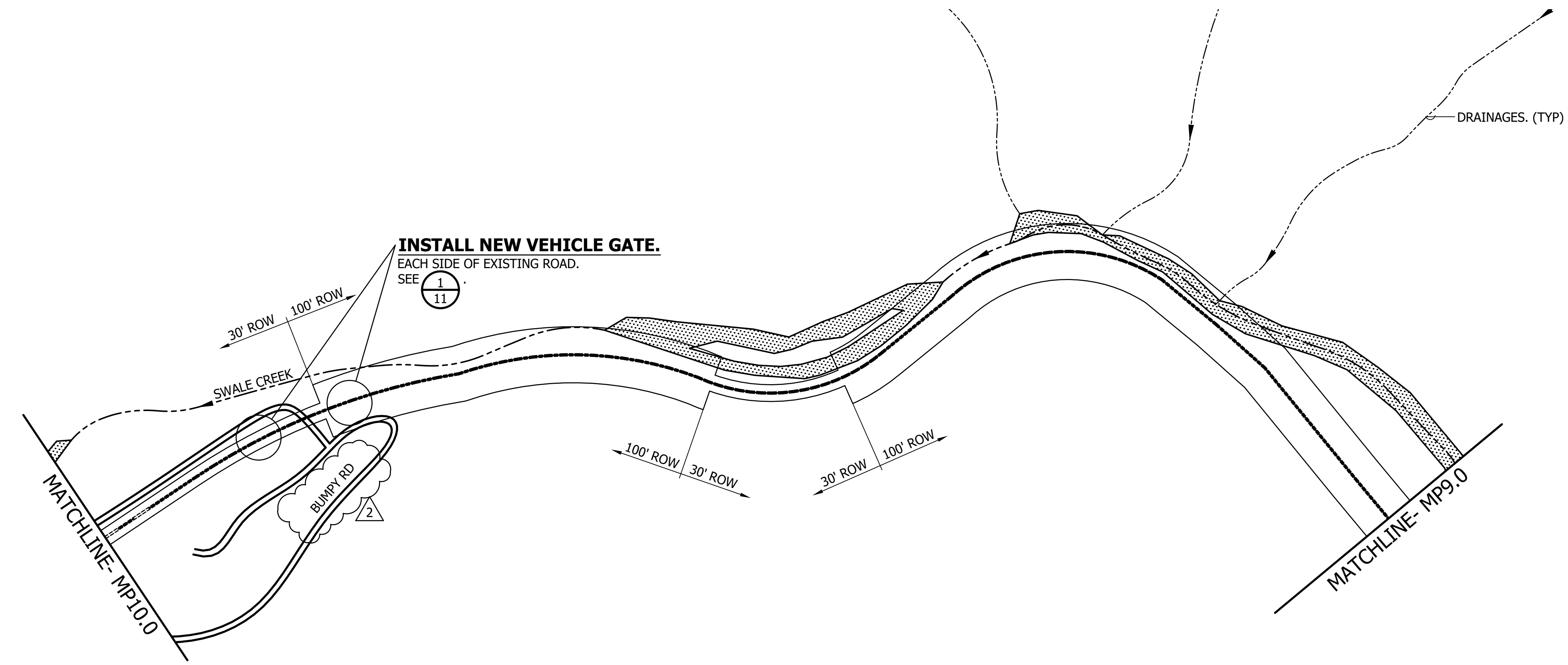
- A. Section 014000 - Quality Requirements: Field inspecting, testing, adjusting, and balancing.

END OF SECTION

Plotted: Feb 28, 2024 - 10:23 ErikM C:\Temp\AutoCAD Temp Crap\acPublish\_13052\02 Trail Work Sites.dwg Layout Name: 7 Trail Work Sites E



**KLICKITAT TRAIL MILE 8.0 - MILE 9.0**



**KLICKITAT TRAIL MILE 9.0 - MILE 10.0**

SHEET 7 OF 22

CAD NO.

	02/28/24	DATE
	02/09/24	DATE
ECM	ECM	INT.
ECM	ECM	APP.
Addendum #3 Revisions		REVISIONS
Addendum #2 Revisions		
2	1	NO.

ACTION	BY	DATE
DESIGNED	ECM	02/27/2024
DRAWN	OGC	02/27/2024
CHECKED	ECM	02/27/2024
CHECKED (HDQTS.)		

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PROJECT ENGINEER

WASHINGTON STATE PARKS AND RECREATION COMMISSION

**KLICKITAT STATE PARK TRAIL**

**SWALE CANYON TRAIL IMPROVEMENTS**


**MILE 8.0 - 10.0 WORK SITES**

SCALE  
**AS SHOWN**

PARKS FILE#

CAD NO.	
02/28/24	DATE
02/09/24	DATE
ECM	INT.
ECM	INT.
2	NO.
1	NO.

ACTION	BY	DATE
DESIGNED	ECM	02/28/2024
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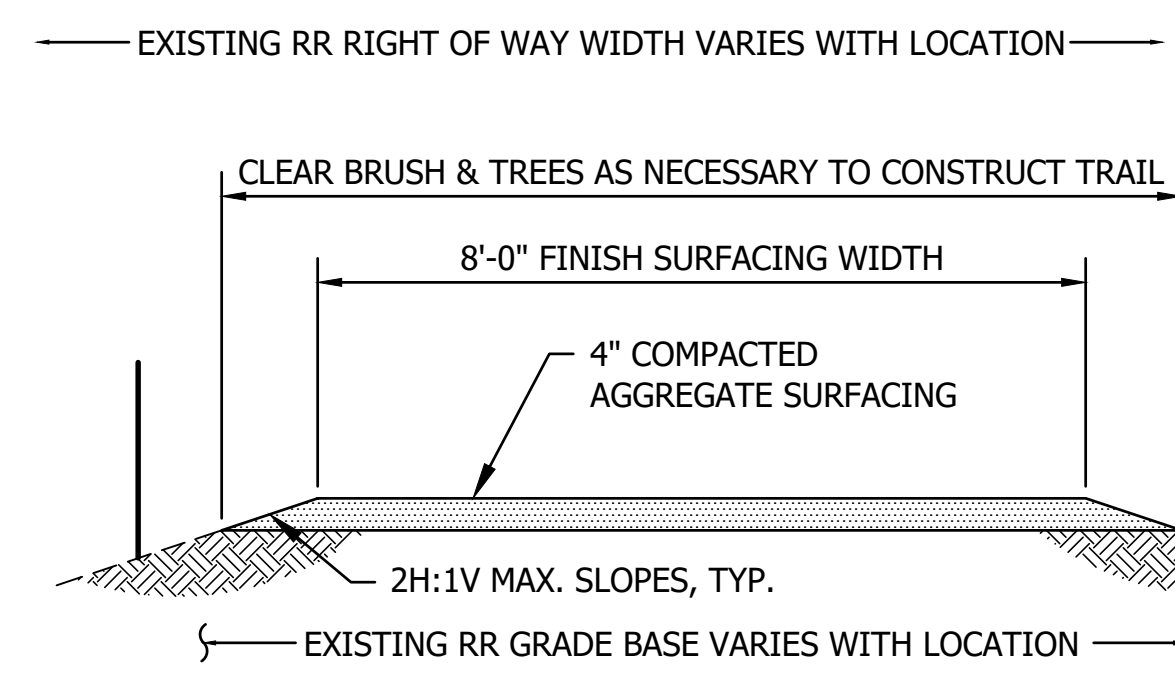

**KLICKITAT STATE PARK TRAIL**

**SWALE CANYON TRAIL IMPROVEMENTS**

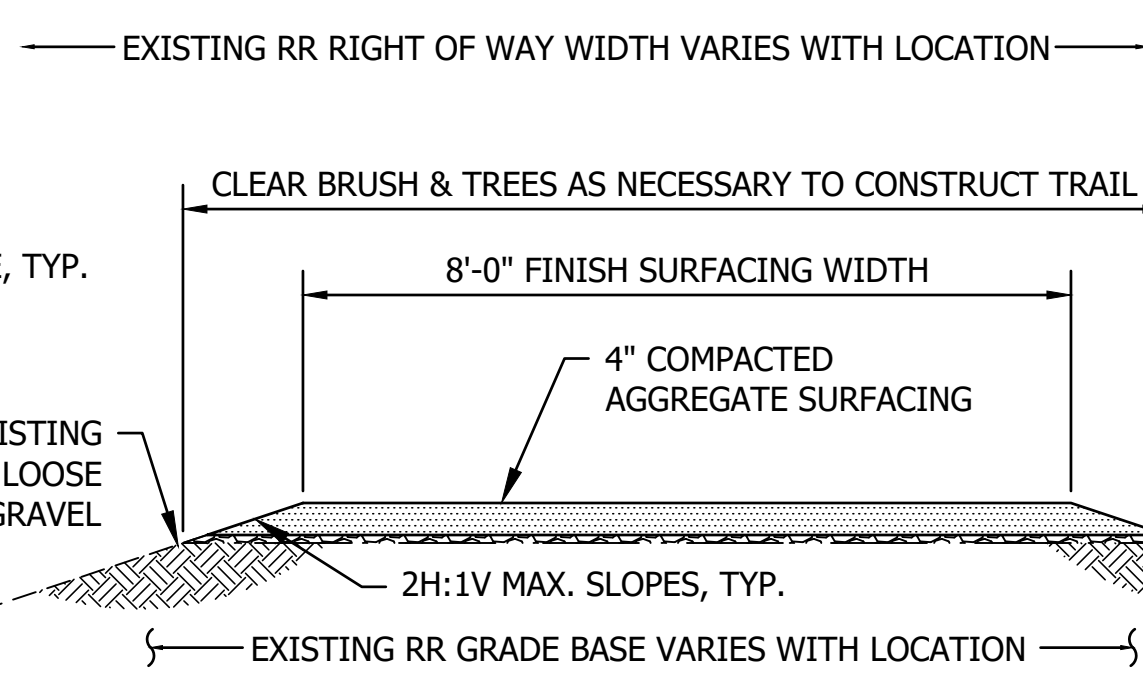
**TYPICAL TRAIL SECTIONS AND WASHOUT REPAIR**

SCALE AS SHOWN

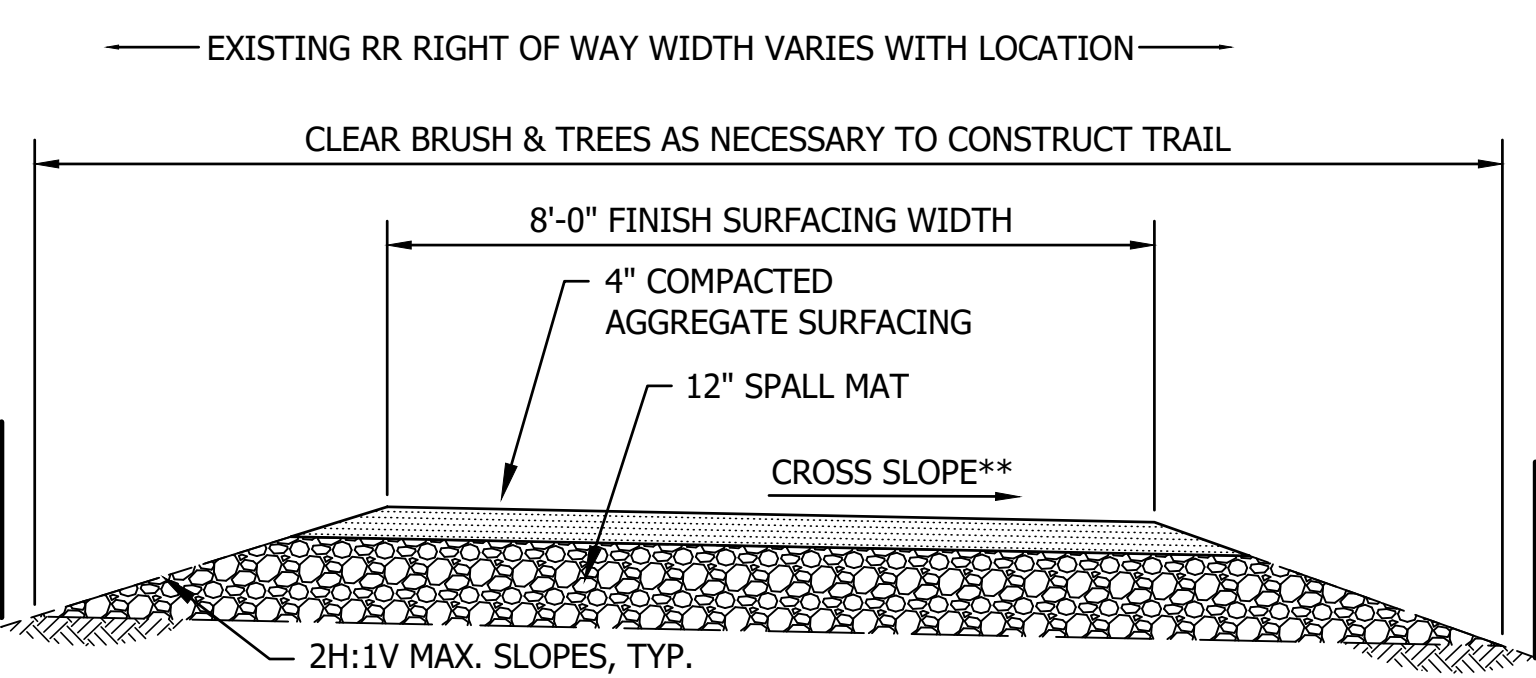
PARKS FILE#



**A TYPICAL RR GRADE SURFACING SECTION**  
 10 (SCALE)  
 0' 2' 4'



**D RR GRADE LOOSE GRAVEL RESURFACE SECTION**  
 10 (SCALE)  
 0' 2' 4'



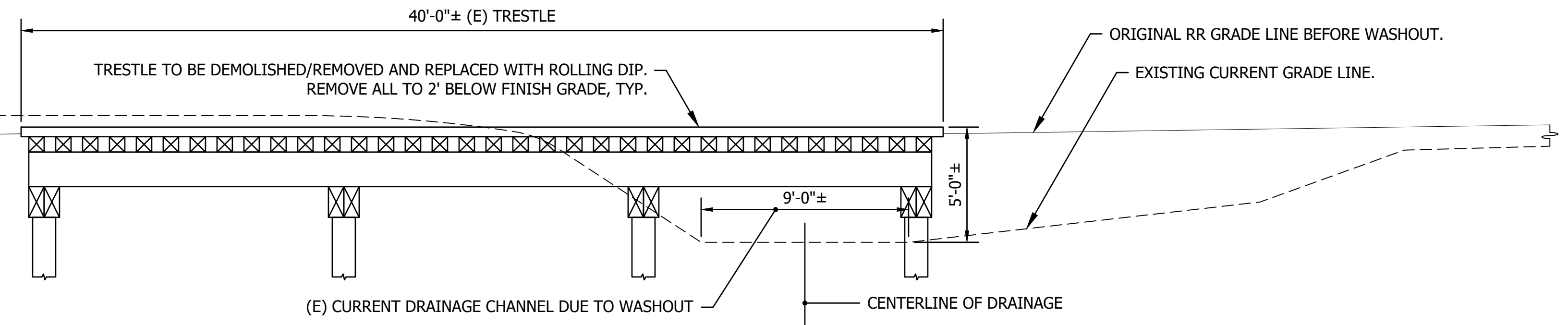
**E TYPICAL WET SECTION REPAIR**  
 10 (SCALE)  
 0' 2' 4'

\*\* SLOPE PER PLAN TOWARD SWALE CREEK, TYP.

**T.E.S.C. NOTES & LEGEND:**

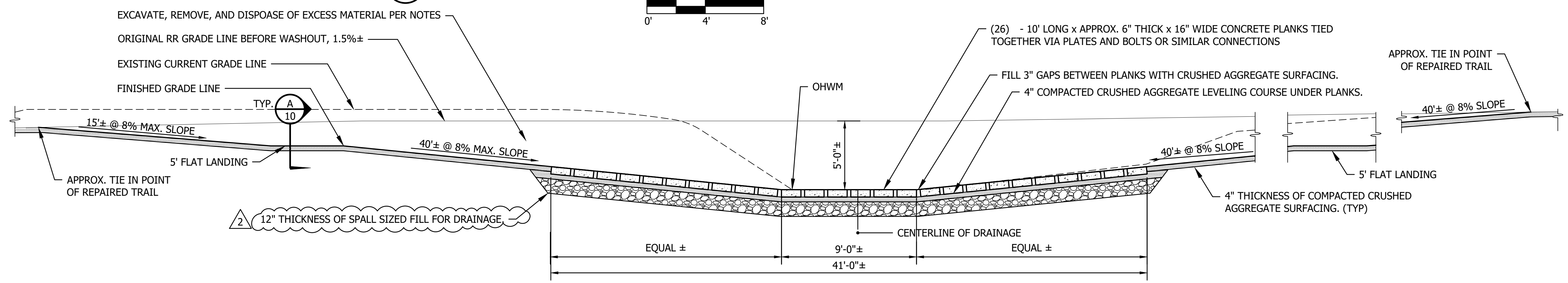
- T.E.S.C. MEASURES SHOWN ARE THE MINIMUM ALLOWED.
- CONTRACTOR IS RESPONSIBLE FOR DESIGNING, ESTABLISHING, MAINTAINING, ADJUSTING, AND REMOVING TEMPORARY EROSION CONTROL MEASURE AS REQUIRED FOR NEW CONSTRUCTION. SUBMIT TESC PLAN TO ENGINEER FOR REVIEW AND WRITTEN APPROVAL PRIOR TO PROCEEDING WITH ANY WORK.
- CONTRACTOR SHALL VISIT THE SITE TO DETERMINE THE WORK NECESSARY TO COMPLETE CONSTRUCTION UNDER THIS CONTRACT AS SHOWN AND SPECIFIED ON THESE PLANS AND IN THE PROJECT SPECIFICATIONS.
- SILT FENCE PER WSDOT STD PLAN I-30.15-02 SHALL BE INSTALLED DOWNHILL OF ALL GRADING OPERATIONS.

ACCRETION OF SOIL MATERIAL FROM WASHOUT. (MOSTLY BOULDERS, COBBLES, SAND, GRAVEL)



**B WASHOUT SECTION OF RR GRADE AT TRESTLE (EXISTING SECTION)**  
 10 (SCALE)  
 0' 4' 8'

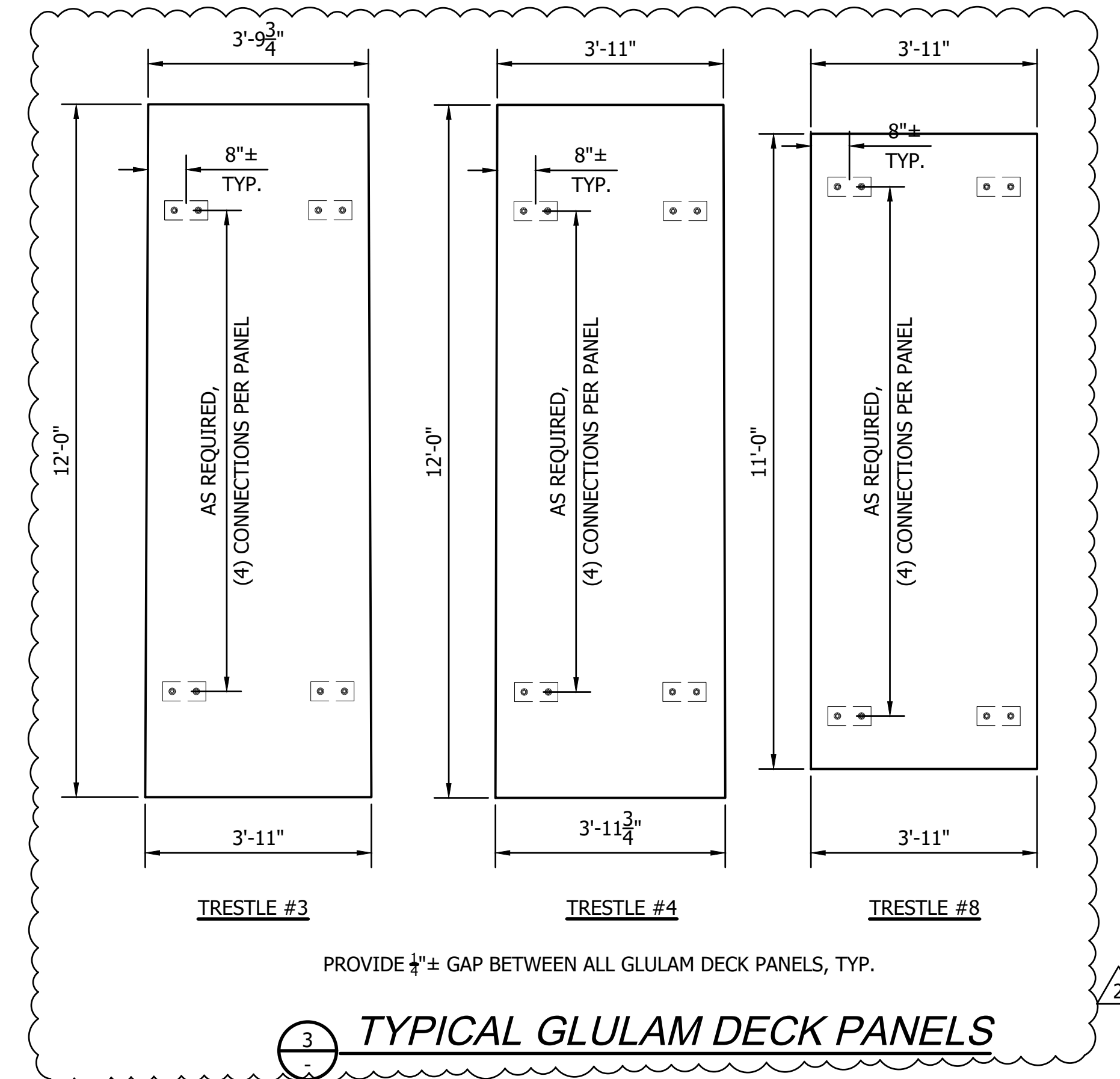
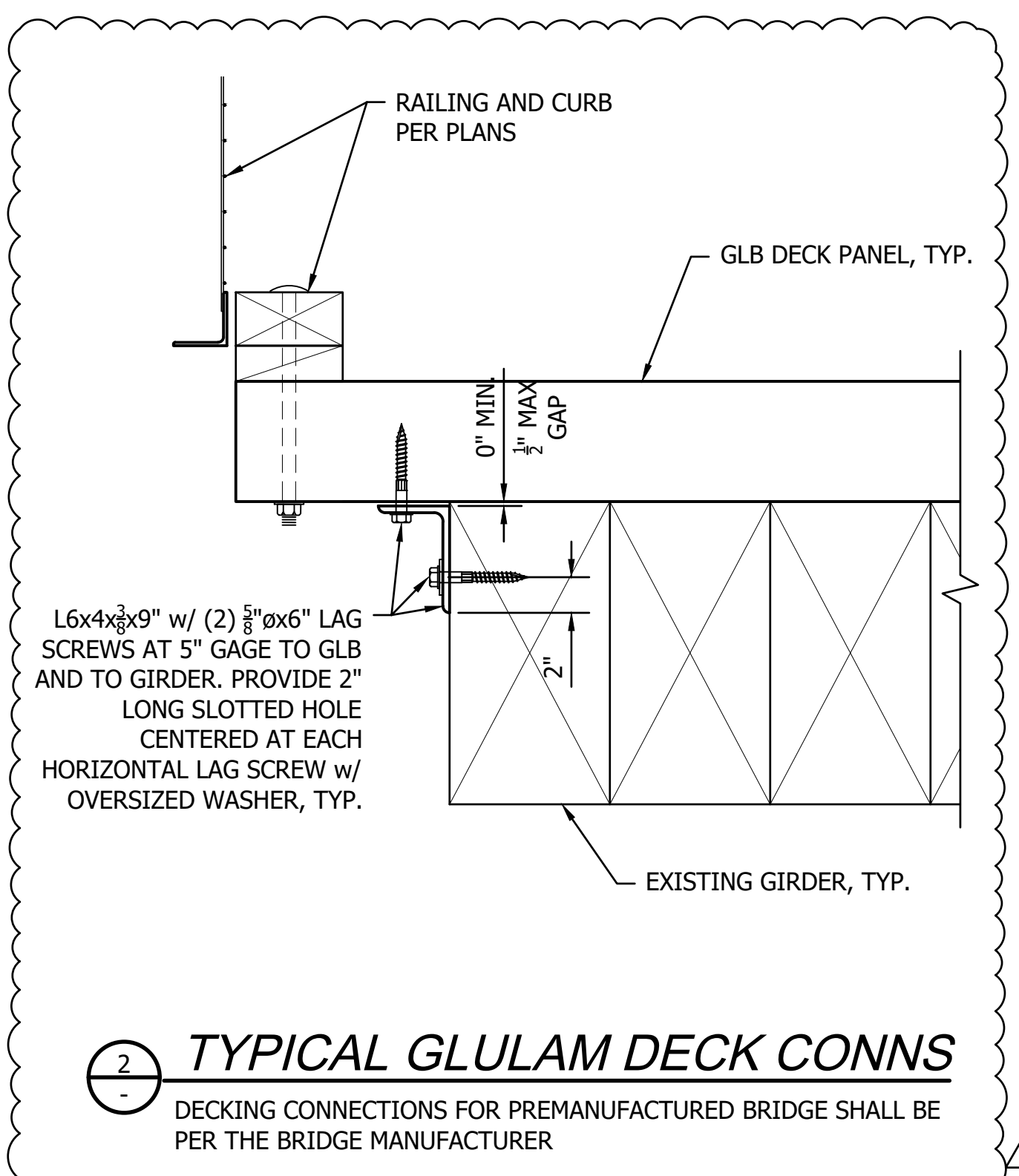
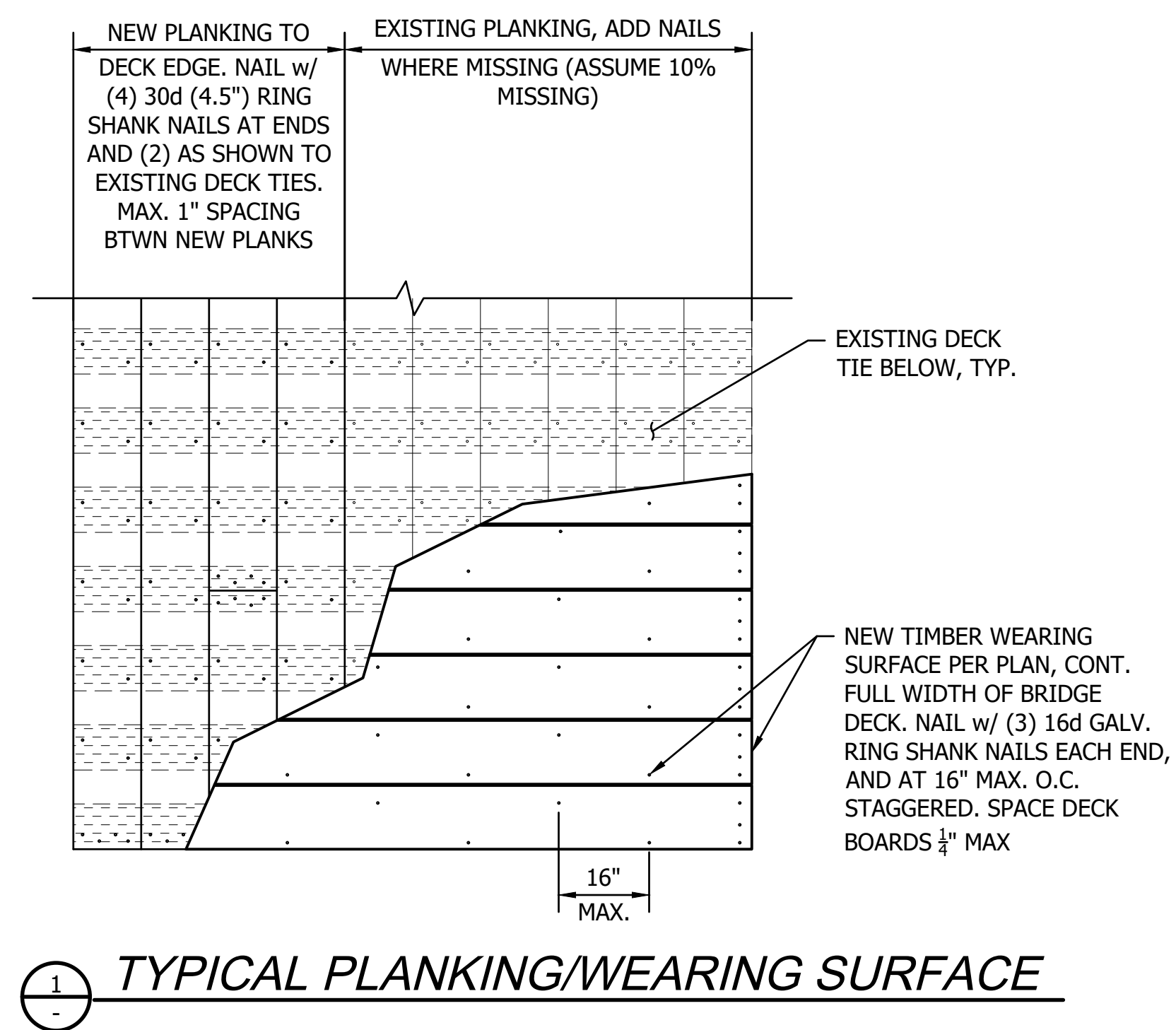
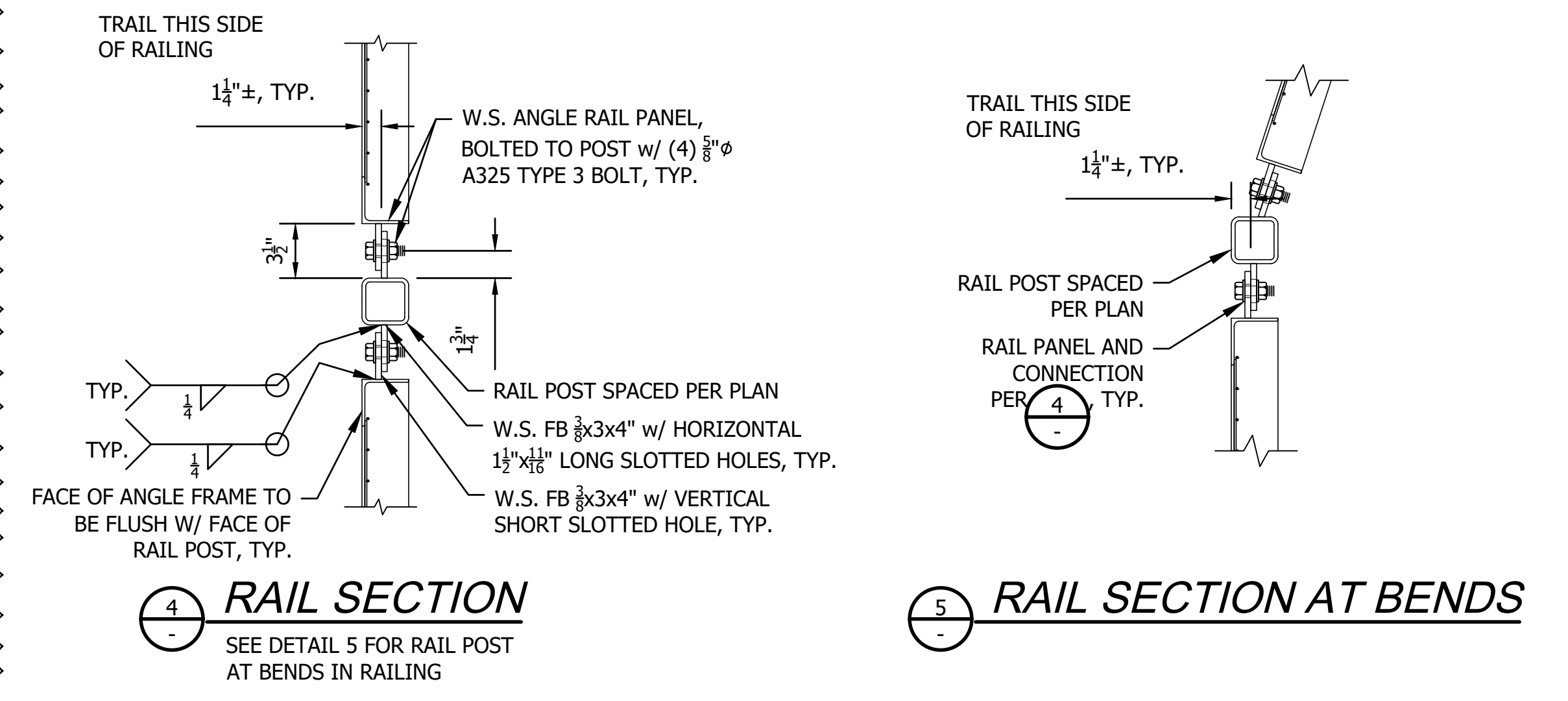
- NOTES:**
- RE-ESTABLISH DRAINAGE CHANNEL TO CENTERLINE OF DRAINAGE NOTED.
  - EXCAVATE, LOAD, AND TRANSPORT WASHOUT MATERIAL TO ACCEPTABLE AREAS ALONG THE RR GRADE (TYPICALLY STREAM SIDE OF TRAIL).
  - EXCAVATION EXTENDS TO ACCRETIONS UP THE DRAINAGE CHANNEL AS REQUIRED TO PROPERLY AND GENTLY BLEND INTO THE RE-SLOPED RR GRADE SHOWN.
  - DEPOSIT AND GRADE DEBRIS TO BLEND INTO THE SURROUNDINGS.
  - RE-ALIGN RR GRADE TO ORIGINAL RR GRADE & CENTERLINE ALIGNMENT.
  - FINISHED SECTION TO BE AS SHOWN BELOW.
  - 10% MAX SLOPE WITH NO MORE THAN 30' WITHOUT A 5' FLAT LANDING.



**C WASHOUT SECTION OF RR GRADE AT TRESTLE (REVISED SECTION)**  
 10 (SCALE)  
 0' 4' 8'

Plotted: Feb 28, 2024 - 10:23 ErikM C:\Temp\AutoCAD Temp Crap\AcPublish...\_13052\03 Repair Details.dwg Layout Name: 10 Typical Trail Sections and Washout Repair

Plotted: Feb 28, 2024 - 10:23 EriKM C:\Temp\AutoCAD Temp Crap\AcPublish\_13052\04 Trestle Redecking Plans\_Add#3.dwg Layout Name: 22 Trestle Redecking Plans - Trestle Decking Details



CAD NO.

		02/28/24	DATE
		02/09/24	DATE
	ECM	ECM	INT.
	ECM	ECM	INT.
Addendum #3 Revisions Addendum #2 Revisions			REVISIONS
		2	NO.
		1	NO.

ACTION	BY	DATE
DESIGNED	ECM	02/28/2024
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02/28/2024

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WASHINGTON STATE PARKS AND RECREATION COMMISSION

KLICKITAT STATE PARK TRAIL

SWALE CANYON TRAIL IMPROVEMENTS

TRESTLE DECKING DETAILS

SCALE: NOT TO SCALE

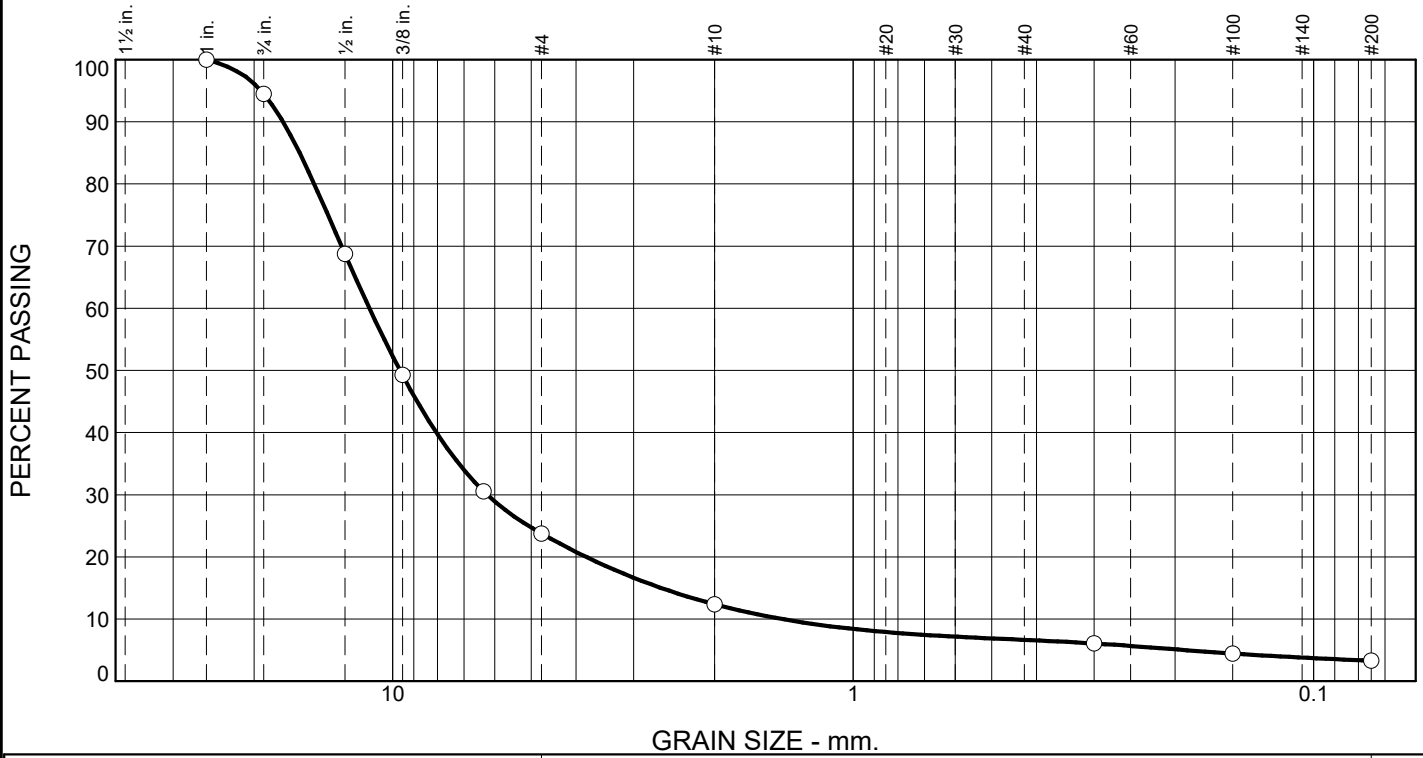
PARKS FILE#

Klickitat Swale Canyon Addendum 3 – QUESTIONS & ANSWERS

1Q. The Trail surface aggregate will be difficult to achieve. Will the product be absolutely required to meet what is in the specs?
1A. The product should meet the TSA spec or an approved alternate to the TSA is the “¾ inch non spec” material from the James Dean Construction quarry.
2Q Can the trail be shutdown? specifically when bridges are being repaired.
2A. The Klickitat Trail and the associated State Parks Right of way will be closed to public access and in control of the contractor from the Notice to Proceed to Substantial Completion from the Wahkiakus Trailhead to Harms Road as well as the portion of trail and right of way associated with the Warwick Laydown Area. However, the Contractor must provide/allow/maintain safe vehicle access for one private property owner and their guests along the trail prism (maximum 3 vehicles per day) between the intersection of the Klickitat trail and Bumpy road (approximate trail mile post 9.8) and the area just south of trestle 8 (approximate trail mile post 8.8) shown on sheet 7 of 22 during modern rifle deer season between 10/10/2024 and 10/27/2024.
3Q. The earliest starting time for work being 7:00 seems tough because of the heat in the area. If IFPL level gets high it could result in really short days. When we have dealt with higher levels on the IFPL we try to start at daybreak.
3A Standard work hours are 7 to 5. However, work hours could be modified if requested by contractor and approved by engineer depending on the type of work being performed and as the weather conditions change.
4Q. Where do the Salvaged Girders go?
4A See revised spec section 024119
5Q. Does it appear any dirt will need to be hauled offsite?
5A Excess excavated material from the trestle 7 removal, debris piles, and wet section improvement areas should be placed onsite as described in the Notes on the drawings. All other excess materials should be removed from the site at no additional cost to the owner.
6Q Bumper blocks on bridge are 8’ 1” and my tires are that wide on my truck.
6A: At a minimum, all work needs to comply with safety requirements as outlined in the General Conditions and other Federal, State and Local safety requirements as described in the contract documents.
7Q: Loading capacity of bridges/ weight limit
7A: Except for Trestle #9, all hold legal load limits as defined by RCW 46.44.041. Trestle 9 currently can carry a ¾ ton truck.
8Q: NTP date and contract
8A: Beginning to middle of April?
9Q: At this point we are planning on putting scaffolds planks on edges of each side of the bridge. To do this we may need to lag into the existing caps. This scaffold will provide a lot of access benefits and help provide a positive method of containment for the field treatment. It will also help with fall protection rules. Will some lags or other connection to the existing caps be allowed.
9A Temporary lag screw connections to existing structures to remain are allowed, however, any permanent damage caused by the contractor to the existing structures will need to be repaired as noted in Section 017700, part 1.7. Following removal of the temporary lag screws, Parks would expect all holes be treated per Section 061000, part 3.2
10Q: Could precasting the end rail anchorages footings be considered? (like on the gates).
10A: This is allowable



# Particle Size Distribution Report



% Gravel		% Sand			% Fines
Coarse	Fine	Coarse	Medium	Fine	Silt
6	70	12	5	4	3

Test Results (AASHTO T 27 & AASHTO T 11)			
Opening Size	Percent Finer	Spec.* (Percent)	Pass? (X=Fail)
1"	100		
3/4"	94		
1/2"	69		
3/8"	49		
1/4"	31		
#4	24		
#10	12		
#50	6		
#100	4		
#200	3.3		

\* (no specification provided)

**Material Description**

James Dean 141 Rejected 3/4-0" from stock pile at Beam Excavation.

**Atterberg Limits (ASTM D 4318)**

PL= N/A      LL= N/A      PI= N/A

**Classification**

USCS (D 2487)= GW      AASHTO (M 145)= A-1

**Coefficients**

D <sub>90</sub> = 17.3113	D <sub>85</sub> = 15.9331	D <sub>60</sub> = 11.2351
D <sub>50</sub> = 9.6402	D <sub>30</sub> = 6.2372	D <sub>15</sub> = 2.6132
D <sub>10</sub> = 1.4273	C <sub>u</sub> = 7.87	C <sub>c</sub> = 2.43

**Remarks**

Material sampled by Beam Excavation and given to KA for lab testing.

---

**Date Received:** 12/20/23      **Date Tested:** 12/26/23

**Tested By:** Giovani Perez

**Checked By:** Saunders Southecorvo

**Title:** Engineering Technician

**Source of Sample:** James Dean 141 3/4-0"  
**Sample Number:** 2

**Date Sampled:** 12/20/23



**Client:** Beam Excavating Inc.  
**Project:** Beam Laboratory Services  
**Project No:** 230812

**RELEASED**  
 saunders      12/26/2023  
**Figure**