Erosion and Sediment Control Plan

For

Seward Hwy: MP 25.5-36 Rehabilitation

Z546590000 / 0311031

Moose Pass, Alaska

Alaska Department of Transportation & Public Facilities
Central Region
P.O. Box 196900
Anchorage, Alaska USA 99519-6900

Prepared By: JAIME PARADA

ESCP Preparation Date: February 2026

The following Erosion and Sediment Control Plan (ESCP) has been prepared by the Alaska Department of Transportation and Public Facilities (DOT&PF) to assist bidders in successfully planning their construction means and methods to comply with the 2021 Alaska Construction General Permit (CGP), United States Army Corps of Engineers (USACE) 404/10 Permit, Alaska Department of Environmental Conservation (DEC) 401 Water Quality Certification, Alaska Department of Fish and Game (ADF&G) Title 16, and other permits associated with this project. This document is not intended to be all inclusive of the best management practices (BMP's) that will be required to reduce the potential for sediment discharge during construction and comply with permit conditions or construction specifications. This ESCP is intended to guide contractors during the bidding process and assist in the preparation of the contractor's Storm Water Pollution Prevention Plan (SWPPP) that must be approved prior to commencing construction after award. The contractor is responsible for the risk assessment analysis, planning, preparation and implementation of the SWPPP.

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Appendix E Project Specific ESCP Discussion & Comments **(ESCP – not part of the SWPPP template)**

The above Appendix E is for ESCP writers only and should include any additional information that the Designer would like to share with the SWPPP preparer. Below is the list of Appendices to be included in the SWPPP.

Appendix E Delegation of Authority (25D-107, 25D-108), Subcontractor Certifications (25D-105), Project Staff Tracking (25D-127) and Personnel Qualifications
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1.0 PERMITTEE (5.3.1)

The Department of Transportation & Public Facilities (DOT&PF) will be a permittee for the project. Upon the approval of the contractor's Storm Water Pollution Prevention Plan (SWPPP) by DOT&PF, the contractor will be required to submit a Notice of Intent (NOI) and obtain permit coverage as an operator. The contractor's contact information as well as contact information for all subcontractors must be included in the contractor's SWPPP. All subcontractors will be required to sign a certification (DOT&PF Form 25D-105) that they have read the Alaska Construction General Permit (CGP) and the contractor's SWPPP and will adhere to their terms and conditions.

1.1 Operator(s)/Contractor(s)

Operator Information			
Organization: Enter Text	Name: Enter Text	Title: Enter Text	
Phone: Enter Text	Fax (optional): Enter Text	Email: Enter Text	
Mailing Address:	Street (PO Box): Enter Text		
	City: Enter Text	State: Enter Text	Zip: Enter Text
Area of Control	Day-to-day operational control of those activities at a site which are necessary to ensure compliance with a SWPPP or other permit conditions.		

The contractor has day-to-day operational control over activities in the field, including subcontractors, installing, maintaining, and inspecting all erosion and sediment controls and implementation of the SWPPP.

Owner/Operator Information			
Organization: State of Alaska Department of Transportation and Public Facilities (DOT&PF)	Name: Enter Text	Title: Enter Text	
Phone: Enter Text	Fax (optional): Enter Text	Email: Enter Text	
Mailing Address:	Street (PO Box): P.O. Box 196900		
	City: Anchorage	State: Alaska	Zip: 99519-6900
Area of Control	Operational control over construction plans and specifications, including the ability to make modifications to those plans and specifications.		

Repeat as necessary.

1.2 Subcontractors

Subcontractor Information			
Organization: Enter Text	Name: Enter Text	Title: Enter Text	
Phone: Enter Text	Fax (optional): Enter Text	Email: Enter Text	
Mailing Address:	Street (PO Box): Enter Text		
	City: Enter Text	State: Enter Text	Zip: Enter Text
Area of Control	Insert Area of Control (if more than one operator at site)		

Repeat as necessary to include all subcontractors. Include any Utility company and the Utility companies' contractors' doing concurrent relocation as a subcontractor – see subsection 641-1.07.

2.0 STORM WATER CONTACTS (5.3.2)

Identify the qualified persons responsible for the following required positions (note: a small project may have all these responsibilities carried out by one person):

Superintendent; DOT&PF's Project Engineer; Storm Water Lead (5.3.2.1); SWPPP Preparer (5.3.2.2); Person(s) Conducting Inspections- Contractor's SWPPP Manager and DOT&PF's Storm Water Inspector (5.3.2.3); Person(s) Conducting Monitoring (if applicable, 5.3.2.4), and Person(s) Operating Active Treatment System (if applicable, 5.3.2.5).

Document that the named individuals are Qualified Persons as described in CGP Appendix C. Include documentation of qualifications in Appendix E of the SWPPP.

Qualified Personnel	Responsibility
Contractor's Superintendent Company Name Address City, State, Zip Code Telephone # Fax/Email	The Contractor's duly authorized representative in responsible charge of the work. Authority for the overall operation of the Project and for Contractor furnished sites and facilities directly related to the Project.
DOT&PF's Project Engineer Company Name Address City, State, Zip Code Telephone # Fax/Email	The DOT&PF's duly authorized representative in responsible charge of the work. Authority to stop and/or modify construction activities as necessary to comply with the SWPPP and the terms and conditions of the permit. Must approve all amendments.
SWPPP Manager (Storm Water Lead and Inspector) Company Name Address City, State, Zip Code Telephone # Fax/Email	Authority to stop and/or modify construction activities as necessary to comply with the SWPPP and the terms and conditions of the permit. Assess conditions at the construction site that could impact storm water quality. Assess the effectiveness of any erosion and sediment control measures selected to control the quality of storm water discharge, and familiar with Part 6 as a means to ensure compliance with the permit.
SWPPP Preparer Company Name Address City, State, Zip Code Telephone # Fax/Email	Possess the skills to assess conditions at the construction site that could impact storm water quality. Familiar with Part 5 as a means to implement the permit.

DOT&PF's Storm Water Inspector Company Name Address City, State, Zip Code Telephone # Fax/Email	Assess conditions at the construction site that could impact storm water quality. Assess the effectiveness of any erosion and sediment control measures selected to control the quality of storm water discharge, and familiar with Part 6 as a means to ensure compliance with the permit.
Monitoring Person (If Applicable) Company Name Address City, State, Zip Code Telephone # Fax/Email	Knowledgeable in the principles and practices of water quality monitoring who is familiar with Part 7 and the monitoring plan for the site and how to conduct water quality sampling, testing, and reporting.
Active Treatment System Operator (If Applicable) Company Name Address City, State, Zip Code Telephone # Fax/Email	Knowledgeable in the principles and practices of treatment systems that employs chemical coagulation, chemical flocculation or electrocoagulation to aid in the treatment of storm water runoff. Familiar with Part 4.5 as a means to implement and comply with the permit.

A SWPPP Project Staff Tracking log (Form 25D-127) will be included in Appendix E to document any changes in personnel for the positions of Superintendent, Project Engineer, SWPPP Manager, and Inspectors.

Delete the information below prior to submittal of SWPPP. This information is provided for the SWPPP Preparer and is not part of the SWPPP template.

2.1 Contact Information for SWPPP Preparation

The following people may be contacted for questions when writing the SWPPP:

Name	Phone	Email
Athena Marinkovic	(907) 269-0436	athena.marinkovic@alaska.gov
Isaac Kelsey	(907) 707-1918	issac.kelsey@alaska.gov

3.0 PROJECT INFORMATION (5.3.3)

3.1 Project Information

Project Name: Seward Hwy: MP 25.5-36 Rehabilitation			
Location Address:	Street/Location: MP 25.5-36 of the Seward Highway	Borough or similar government subdivision: Kenai Peninsula Borough	
	City: Moose Pass	State: Alaska	Zip: 99631
	Latitude (decimal degree, 5 places): 60.50403	Longitude (decimal degree, 5 places): -149.37811	
	Determined By: ☐ GPS ☐ Web Map: ☐ USGS Topo Map, Scale:	☒ Other: Google Earth Pro	

The Seward Highway corridor between mile posts (MP) 25.5 and 36 consists of an existing two-lane road surrounded by trees. The existing two-lane road travels roughly 1 mile through Moose Pass and to the East shoulders Upper Trail Lake.

The Seward Highway corridor between mile posts (MP) 25.5 and 36 consists of an existing two-lane road largely surrounded by trees and vegetation in the Chugach National Forest. Elevation drops on the east side, down to Upper and Lower Trail Lake, and rises swiftly to the west up to the Kenai-Chugach Mountains. Alaska Railroad (ARRC) tracks run parallel (north-south) to the highway before diverting east along Upper Trail Lake, while the roadway heads west. Existing drainage facilities include many cross culverts beneath the highway, natural channels and engineered flumes, and cross culverts beneath the ARRC tracks which outfall to Upper and Lower Trail Lake.

3.2 Project Site-Specific Conditions (5.3.3)

Mean annual precipitation based on nearest weather stations (inches): **27.99”** is the average annual precipitation, recorded at the Moose Pass (Moose Pass 3 NW, 50-5894, Latitude: 60.5000°, Longitude: -149.4333) weather station (Appendix D.)

Source: *Western Regional Climate Center Website:* *https://wrcc.dri.edu/cgi-bin/cliMAIN.pl?ak5894*

Size of the 2-yr, 24-hr storm event (in inches): 2.25” is the estimated 2-yr, 24-hr storm event at the project’s latitude and longitude listed in Section 3.1. The nearest weather station used for this citation is Moose Pass 3 NW 50-5894.

Soil Type(s) and Slopes: The project begins just north of Trail River Bridge which spans the river as it exits Lower Trail Lake. North of the bridge from about MP 26 there are steep slopes on project left with a relatively thin layer of overburden covering bedrock. The bedrock consists primarily of thin-bedded phyllite with some greywacke. The bedding of this bedrock generally dips east, towards the highway, and is the cause of many slide features seen along the section from about MP 26 to MP 29. The Alaska Railroad tracks run generally parallel to the highway from BOP to Moose Pass where it then crosses Upper Trail Lake. North of Moose Pass there are steep rock cuts to about MP 30. From MP 30 to about MP 31, the highway makes a sharp bend, becoming more NNW-trending. North of MP 31 the slopes become less steep to about MP 32.5, where the road is situated in a wide U-shaped glacial valley.

Soils within the project corridor are generally glacial and alluvial in origin and consist of varying amounts of silt, sand, gravel, cobbles, and boulders. Alluvial soils are present in the Moose Creek floodplain and where larger streams form alluvial fans near the base of the mountains. Soil layers are typically thin and in the

early stages of development due to harsh climatic conditions on upper side slopes and the relatively recent recession of glaciers on lower side slopes.

Sources: *Seward Hwy: MP 25.5-36, Trail River to Sterling Wye Rehab Project No. Z546590000 Geotechnical Report, April 2022; Seward Highway: MP 25.5-36 Trail River to Sterling Wye Rehabilitation 3rd Draft Hydrologic and Hydraulic Report, May 2021*

Drainage Patterns: Natural drainage patterns are predominantly west to east from approximately BOP to MP 33.5, from the steep mountainous terrain above the highway, flowing through culverts under the highway and railroad corridors, and into Lower and Upper Trail Lakes (i.e. project left to project right). Some attenuation occurs downstream of the highway and/or railroad embankments, particularly where the embankments diverge from each other and the lake. From MP 33.5 northward to EOP, the roadway holds to the north side of a valley, and the drainage pattern becomes generally north to south (i.e. project right to project left).

Type of Existing Vegetation: Basin vegetation on lower slopes consists mainly of mature evergreen forest, with spruce and hemlock predominating. The forest understory varies from thick moss with sparse shrubs to dense brush consisting of alder, willow, salmonberry, blueberry, goatsbeard, cow parsnip, and devils club. Much of the upper slopes within the project corridor are in avalanche terrain, and large trees are mostly absent. Tree line is located at 2,500-2,700 feet in elevation. Areas above tree line are covered by alpine tundra, with bare ground present in cliff bands and near ridgetops.

Source: *Seward Highway: MP 25.5-36 Trail River to Sterling Wye Rehabilitation 3rd Draft Hydrologic and Hydraulic Report, May 2021*

Approximate Growing Season: The approximate growing season for the Pacific Coastal Mountains region (119) encompassing this project is from **May 29th to September 27th** (Appendix D).

Source: *USACE Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Alaska Region (Vs. 2.0), Table 5.*

Seeding Dates: Seeding dates for this project are May 15 to August 15, or obtain written approval from the Engineer to seed at a different date. See Section 618 of the project specifications.

Time Period to Avoid Vegetation Clearing: Clearing and grubbing is not permitted within the migratory bird window: May 1st to July 15th.

Source: USFWS Region 7 Timing Recommendations for Land Disturbance & Vegetation Clearing

Fish Window: Refer to the ADF&G Fish Habitat Permit for permissible dates to perform in-water work

Historic site contamination evident from existing site features and known past usage of the site:

Contaminated Sites within Project Vicinity			
Site Name	Hazard ID	Location (Latitude, Longitude)	Status
Alascom – Moose Pass Microwave	23631	(60.4755, -149.3716)	Cleanup Complete
Lots 4 & 5 Moose Pass Townsite	2429	(60.4864, -149.3703)	Cleanup Complete
Trail Lake Lodge	23743	(60.4885, -149.3697)	Cleanup Complete

ADOT&PF Moose Pass Yard	668	(60.4908, -149.3704)	Cleanup Complete
ADOT&PF Moose Pass Maintenance Station	23544	(60.4909, -149.3707)	Cleanup Complete
Alascom – Tern Lake Repeater	23236	(60.5328, -149.5344)	Cleanup Complete

Additional information about these sites is available on the DEC Division of Spill Prevention and Response website: https://www.arcgis.com/home/item.html?id=315240bfbaf84aa0b8272ad1cef3cad3. Include only those sites listed as 'Active' or 'Cleanup Complete – Institutional Controls'

3.3 Reference Documents Available

Listed below are the reference documents available for this project. Please contact the Project Engineer for assistance in obtaining these documents.

- Project Specific Permits – located in Appendix D and in the Special Provisions Package
- Geotechnical Report available from the Plans room during the bidding process or download from the Bid Express project site (https://ui.bidx.com/login?referer=%2Fak%2Flettings – login required)
- Environmental Commitment Memo – available at Preconstruction Meeting
- Environmental Document – available for review in the DOT&PF Preliminary Design & Environmental section

4.0 NATURE OF CONSTRUCTION ACTIVITY (5.3.4)

4.1 Scope of Work

The Proposed Action includes widening the roadway to provide 6 foot shoulders outside of the community of Moose Pass; provide Slow Vehicle Turnouts at select locations throughout the project; removing and upgrading guardrail; replacing culverts, signing, and striping; improve storm water drainage facilities, including replacement of cross culverts; improve existing vehicle turnouts as needed; clearing vegetation for improved sight distance; upgrading existing pedestrian amenities; and adding traffic calming measures through the community of Moose Pass.

4.2 Project Function (5.3.4.1)

The Project will improve the existing highway by widening the roadway outside of the community of Moose Pass, resurfacing the roadway, improving ditching and drainage for longevity of the service life of the road and reduce maintenance burden, and slope flattening of embankment will improve safety.

4.3 Support Activities (As Applicable)

Modify support activities table, as necessary. "Dedicated" only applies to activities exclusively for the project, i.e. commercial concrete or asphalt plants would be marked "No" under the "Dedicated" column. Location must be provided for ALL support activities, even those which are commercial or off-site. Provide a physical address for the support activities. For private and/or commercial support activities locations,

include the name of the individual and/or company and their physical address. Location may be an address or other descriptive location, i.e. NE corner of staging area.

Support activities for this project are:

Support Activity	Location	Dedicated	
		Yes	No
Concrete Batch Plant	TBD by Contractor	☑	☐
Asphalt Batch Plant	TBD by Contractor	☑	☐
Equipment Staging Yards	TBD by Contractor	☑	☐
Material Storage Areas	TBD by Contractor	☑	☐
Excavated Material Disposal Areas	TBD by Contractor	☑	☐
Borrow Areas	TBD by Contractor	☑	☐

4.4 Sequence and Timing of Soil-disturbing Activities (5.3.4.2)

The contractor will be required to finish, either temporary or final stabilized, individual areas prior to moving on to the next area. The contractor will be required to prepare a detailed schedule for review and approval prior to commencement of construction activities and is to be included in the SWPPP. The schedule will detail the sequence of activities and describe the stabilization schedule. The contractor must adapt this section with their specific plans in the project SWPPP.

4.5 Size of Property and Total Area expected to be Disturbed (5.3.4.3)

The following are estimates of the construction site:

Description	Number	Remarks
Total project area:	**362.48 acres**	ROW to ROW plus The Temporary Construction Permit Area.
Construction-site area to be disturbed:	**155.71 acres**	The seeding area plus the riprap, pavement, rock cut, and gravel areas.
Percentage impervious area BEFORE construction:	**14.71%**	Pavement (Impervious): 45.87 acres (C=0.825) Gravel (Impervious): 7.45 acres (C=0.80) Forrest/ Remainder (Pervious): 309.17 acres (C=0.42)

Runoff Coefficient BEFORE construction:	**0.48**	$C=\frac{\sum A_i * C_i}{\sum A_i}$ $=\frac{45.87*0.825+7.44*0.80+309.17*0.42}{45.87+7.44+309.17}$
Percentage impervious area AFTER construction:	**15.95%**	Pavement (Impervious): 49.97 acres (C=0.825) Gravel (Impervious): 5.04 acres (C=0.80) Rock cut (Impervious): 2.79 acres (C=0.79) Riprap (Pervious): 2.52 acres (C=0.68) Seeding (Pervious): 95.39 acres (C=0.50) Forrest/ Remainder (Pervious): 206.77 acres (C=0.42)
Runoff coefficient AFTER construction:	**0.51**	$C=\frac{\sum A_i * C_i}{\sum A_i}$ $=\frac{49.97*0.825+5.04*0.80+206.77*0.42+2.97*0.79+2.52*0.68+95.39*0.50}{49.97+5.04+206.77+2.79+2.52+95.39}$

The values shown in the table above were calculated with the information available at the time of the final design. The contractor's values will be different due to staging areas, batch plants, material stockpiles, etc. **The Rational Method** was used to calculate the Runoff Coefficient. If a discrepancy is found, contact the Project Engineer to request further information.

4.6 Identification of All Potential Pollutant Sources (5.3.4.5)

Identify and list all potential sources of sediment from construction materials and activities which may affect the quality of storm water discharges from the construction site.

Identify and list all potential sources of pollution, other than sediment, from construction materials and activities which may affect the quality of storm water discharges from the construction site.

Potential source of sediment to storm water runoff:

- Clearing and grubbing
- Blasting/rock cutting
- Excavation and/or filling at numerous culvert replacements
- Placing ditch lining, riprap, erosion protection and selected material
- Temporary stream diversions
- Roadside hardware, surface course, and structure removal
- Embankment construction
- Storm drain installation
- Stockpiling and/or storing waste material
- Airborne dust from construction activities

Potential pollutants and sources, other than sediment, to storm water runoff:

Trade Name Material	Storm Water Pollutants	Location
Vehicle and equipment fluid	Oil, grease, fuel, solvents, and coolants	Vehicle maintenance/refueling and active construction areas.
Portable toilet	Domestic waste	To be determined.
Best Management Practices (BMP) material	Solid waste	Drainage ditches, project perimeter, and other locations where BMPs will be installed.
Refuse	Refuse	Dumpster locations have not been determined; refuse may occur anywhere within the project area.

5.0 SITE MAPS (5.3.5)

Site map(s) and drawings are located in Appendix A.

The SWPPP must include a legible site map (or set of maps for large projects) showing the entire site and identifying the following site-specific information:

1. North Arrow **(ESCP)**
2. Property boundaries **(ESCP)**
3. Locations where earth-disturbing activities will occur, noting any phasing dictated by design **(ESCP)**
4. Location of areas that will not be disturbed and natural features to be preserved **(ESCP)**
5. Locations of all storm water conveyances including ditches, pipes, and swales **(ESCP)**
6. Locations of storm water inlets and outfalls, with a unique identification code for each outfall **(ESCP)**
7. Location where storm water and/or authorized non-storm water discharges to waters of the U.S. (including wetlands) or a Municipal Separate Storm Sewer Systems (MS4), if present **(ESCP)**
8. Direction of storm water flow and approximate slopes anticipated after grading activities **(ESCP)**
9. Locations where control measures will be installed **(ESCP)**
10. Locations where exposed soils will be or have been stabilized
11. Locations where post-construction storm water controls will be installed (i.e. seeding areas, matting, riprap, sedimentation basins, etc.) **(ESCP)**
12. Locations of support activities, if known
13. Locations where authorized non-storm water will be used
14. Locations and sources of run-on to the site from adjacent property that may contain quantities of pollutants (e.g., sediment, fertilizers and/or pesticides, paints, solvents, fuels) which could be exposed to rainfall, or snowmelt, and could be discharged from your construction site, if applicable **(ESCP)**
15. Locations of all waters of the U.S. (including significant wetland areas 10,000 square feet or greater) on the site within 2,500 feet of the site boundary (~1/2 mile on each side of road) that may be affected by storm water discharges from the site (see Section 7.1) **(ESCP)**
    a. This can be shown on a general location map (USGS quad map, a portion of a city or county map, or other map) with enough detail to identify the location of the construction site and waters of the U.S. within the one mile distance.
16. Location of existing public water system (PWS) drinking water protection areas (DWPA) for PWS sources (e.g. springs, wells, or surface water intakes) that intersect the boundary of the proposed project/permit area. The DWPAs can be found using the interactive web map application, “Alaska DEC Drinking Water Protection Areas”, located at *http://dec.alaska.gov/das/GIS/apps.htm.* **(ESCP)**
    a. A copy of the webpage from the above URL will work with the addition of the project boundary and labels for the DWPAs by their ID numbers (see Section 9).
17. Sampling point(s), if applicable
18. Areas where final stabilization has been accomplished
19. Location of staging and material storage areas (construction materials, hazardous materials, fuels, etc.) **(ESCP, if known)**
20. Dumpsters
21. Porta-potties
22. Concrete, paint, or stucco washout areas
23. Stabilized construction exits **(ESCP, if known)**

6.0 DISCHARGES

Stormwater flows generally west to east from the mountains west of the highway into Upper and Lower Trail lakes, north to south as it enters the Moose Pass valley, transitioning to a more to south flow direction near the end of the project as it approaches the Sterling Wye. Numerous culverts and culvert batteries allow for flow to cross under the highway.

Subject to compliance with the terms and conditions of the CGP, the permittee is authorized to discharge pollutants in storm water discharges from the site. If the permittee is eligible for coverage under CGP and does not comply with the requirements of the CGP, the permittee may be in violation of this general permit for otherwise eligible discharges.

6.1 Locations of Other Industrial Storm Water Discharges (5.3.8)

The contractor is required to identify discharges from related support activities. Portable batch plants located on department-supplied property must be included in the contractor's SWPPP and related inspections. If the DOT&PF is not a CGP operator for the site or sites listed in this subsection, then describe the sites and BMPs for them in a separate SWPPP2. In this section, explain which areas are covered within this SWPPP and which are covered within a separate SWPPP2. Also provide information on where the SWPPP2 is available for review.

6.2 Allowable Non-Storm Water Discharges (1.4.3; 4.3.7; 5.3.9)

The contractor must list all allowable non-storm water discharges and describe how the discharges will be minimized and managed to reduce pollution to storm water in the contractor's SWPPP.

Allowable Non-Storm Water Discharges:

- Discharges from fire-fighting activities (1.4.3.1)
- Fire hydrant flushing (1.4.3.2)
- Waters used to wash vehicles where detergent are not used (1.4.3.3)
- Water used to control dust (1.4.3.4)
- Potable water including uncontaminated water line flushings (1.4.3.5)
- Routine external building wash down that does not use detergents (1.4.3.6)
- Pavement wash waters where spills or leaks of toxic or hazardous materials have not occurred (unless all spilled material has been removed) and where detergents are not used (1.4.3.7)
- Uncontaminated air conditioning or compressor condensate (1.4.3.8)
- Uncontaminated, non-turbid discharges of ground water or spring water (1.4.3.9)
- Foundation or footing drains where flows are not contaminated with process materials such as solvents or contaminated groundwater (1.4.3.10)
- Uncontaminated construction dewatering waters that are treated by an appropriate control measure in compliance with Part 4.4.2 or have been treated with treatment chemicals in compliance with Part 4.6 (1.4.3.11)
- Landscape irrigation (1.4.3.12)

7.0 DOCUMENTATION OF PERMIT ELIGIBILITY RELATED TO TOTAL MAXIMUM DAILY LOADS (3.2, 5.6)

A search of the "Alaska's Final **2024** Integrated Water Quality Monitoring and Assessment Report" found no listings or impairments for Tern Lake, Daves Creek, Moose Creek, Carter Creek, Upper Trail Lake, Lower Trail Lake, Trail Creek, and three unnamed creeks.

7.1 Identify Receiving Waters (5.3.3.3)

Description of receiving waters: Receiving waters include Tern Lake, Daves Creek, Moose Creek, Carter Creek, Upper Trail Lake, Lower Trail Lake, Trail Creek, and three unnamed creeks. Daves Creek and Moose Creek parallel the road before draining into Tern Lake and Upper Trail Lake, respectively. The remaining creeks primarily run from project left to project right, from the mountains to the west of the corridor, under the highway via culverts, and into the receiving lakes (Upper and Lower Trail Lake) These water bodies all support anadromous fish and provide Essential Fish Habitat (EFH). The drainage is generally west to east, through the highway culverts.

Outstanding Natural Resource Waters (2.1.6):

The DEC must be consulted, at least 30 days prior to construction activities, when determining requirements for water quality analysis on all projects that meet the following:

- Will or may discharge storm water to a Tier 3 water body, also known as Outstanding Natural Resource Waters (ONRW).

No ONRW are designated in Alaska as of the date of this document.

Description of storm sewer and/or drainage systems:

There are several drainages from the steep mountain ridges west of the highway that have variable flow depending on season and climate. Drainage improvements within this project include roadside ditching, open-ended culverts, and a minor storm drainage system. This project's drainage is primarily supported via open-ended culverts, apart from a short storm drain system within the town of Moose Pass. This small storm drain system eventually outfalls into Lower Trail Lake. In addition, select culverts beneath the railroad tracks would also be replaced as part of this project to minimize impacts to drainage systems based on improvements made upstream.

7.2 Identify TMDLs (5.6.1)

Is an EPA-established or approved TMDL published for the receiving water(s) listed in Section 7.1?

☐ Yes ☑ No

TMDL: **N/A**

Summary of consultation with state or federal TMDL authorities (5.6.2): **N/A**

Measures taken to ensure compliance with TMDL (5.6.3): **N/A**

Are there impaired receiving waters listed in Section 7.1 without an approved TMDL? ☐ Yes ☑ No

8.0 DOCUMENTATION OF PERMIT ELIGIBILITY RELATED TO ENDANGERED SPECIES (3.3, 5.7)

8.1 Information on Endangered or Threatened Species or Critical Habitat (5.7.1)

Are endangered or threatened species and critical habitats on or near the project area?

☐ Yes ☑ No

Describe how this determination was made: The determination was made during scoping and consultation with the USFWS and ADF&G in support of the environmental document. The USFWS Information for Planning and Consultation (IPaC) database was queried in January 2, 2018 for the most current endangered and threatened species information; no species have been listed as threatened or endangered in the project area since the environmental document was approved, nor has any new critical habitat been identified (Appendix D).

Will species or habitat be adversely affected by storm water discharge?

☐ Yes ☑ No

Provide summary of necessary measures (5.7.5): Vegetation clearing procedures will be detailed in the SWPPP and will follow the USFWS Region 7 Timing Recommendations for Land Disturbance and Vegetation Clearing in order to protect migratory birds.

9.0 APPLICABLE FEDERAL, STATE, TRIBAL, OR LOCAL REQUIREMENTS (4.10, 4.15)

The project will comply with all applicable Federal, State, Local, and Tribal requirements for soil erosion control and storm water management.

The contractor will be responsible for obtaining all necessary permits and clearances for material and disposal sites, and/or equipment storage areas in accordance with the CGP for Storm Water Discharges from Construction Activities.

9.1 Historic Properties

SHPO consultation was completed on: **August 15th, 2023**

Are there any historic sites on or near the construction site?

☐ Yes ☑ No

Describe how this determination was made:

An initial cultural resource and architectural survey was completed in September 2015. The survey identified 26 historic resources in the direct Area of Potential Effect (APE) and 23 in the indirect APE. Of the 26 resources within the direct APE, two properties were determined eligible for listing in the National Register of Historic Places (NRHP) during previous investigations. Four of the 23 resources within the indirect APE were also found eligible for inclusion in the NRHP during previous investigations.

During the October 2015 cultural resource survey, no evidence of one resource remained within the direct APE; therefore, DOT&PF found that the proposed project would have no effect on said resource. The other resource was found that the project would not need to acquire ROW or result in the alteration or relocation of the resource.

The Area of Potential Effect (APE) in the project has been updated since the preliminary APE. On July 17, 2023, an updated findings letter with this revised APE was sent to consulting parties. On July 27, 2023, SHPO agreed with the decision of No Historic Properties Adversely Affected. On August 4, 2023 Nancy Erikson responded with a letter that stated that properties in the area were not found to be eligible. On August 15,2023, the Chugach National Forest Supervisor responded that there is no further comment.

If cultural or paleontological resources are discovered after the initial commencement of construction activities, work that would disturb such resources is to be stopped, and the Office of History and Archaeology, a Division of Parks and Outdoor Recreation of the Alaska Department of Natural Resources (http://dnr.alaska.gov/parks/oha/), is to be notified immediately at (907) 269-8721.

It is the Contractor's responsibility, thru the Project Engineer, to get clearance for material and disposal sites that have not been assessed during the Design phase of the project.

9.2 Projects near Public Water System (PWS) (4.10)

The project boundary intersects **Two** Public Water System (PWS) Drinking Water Protection Area(s) (DWPA) , and will have to follow the requirements of the 2021 CGP Part 4.10. The PWS contact will need to be notified by whatever method is most expedient: email, phone, or post (4.10.1). This should be done by the DOT&PF Project Engineer on behalf of both parties.

The intersecting DWPAs and Provisional Protect Areas ID numbers (PWSID) with contact information are:

Water System Name	PWSID	Contact Name	Phone #	Address	Email
Trail Lake Lodge Motel	AK2243488	David Fulton	907-288-3101	P.O. Box 5, Moose Pass, AK 99631	moosepass@alaska.com
Trail Lake Lodge	AK2240804				

The water system name, number, name of contact, and all methods of contact can be found at: https://dec.alaska.gov/eh/dw/dwp/protection-areas-map/.

If the project is near a PWS, add language that addresses the following items:

1. Within the identified DWPA, restrict project activities that could significantly change the natural surface water drainage or groundwater gradient (4.10.2).

2. Immediately notify the nearby PWS of any identified potential contamination, such as spills or excess erosion (4.10.3).

Record the time, date, and method of contact and enter into the SWPPP in Appendix Q. Either a copy of the email, or a formal memo stating the date of phone call, or a receipt from certified mail will fulfill this obligation.

General Principles for Erosion and Sediment Controls.

The contractor must design, install, and maintain effective erosion and sediment controls to minimize the discharge of pollutants. At a minimum, such controls must be designed, installed, and maintained to:

- Control storm water volume and velocity to minimize soil erosion and pollutant discharges;
- Control storm water discharges, including both peak flowrates and total storm water volume, to minimize channel and streambank erosion and scour in the immediate vicinity of discharge points;
- Minimize the amount of soil exposed during construction activity;
- Minimize the disturbance of steep slopes;
- Minimize sediment discharges from the site. The design, installation, and maintenance of erosion and sediment controls must address factors such as the amount, frequency, intensity, duration of precipitation; the nature of resulting storm water runoff; and soil characteristics, including the range of soil particle sizes expected to be present on the site;
- Provide and maintain natural buffers around waters of the U.S., direct storm water to vegetated areas and maximize storm water infiltration to reduce pollutant discharges, unless infeasible;
- Minimize soil compaction. Minimizing soil compaction is not required where the intended function of a specific area of the site dictates it to be compacted.
- Unless infeasible, preserve topsoil. Preserving topsoil is not required where the intended function of a specific area of the site dictates that the topsoil be disturbed or removed.

Additional Erosion and Sediment Controls Selection and Design Considerations:

Preventing storm water from coming into contact with polluting materials is generally more effective, and less costly, than removing pollutants from storm water;

Using a combination of control measures is more effective than using control measures in isolation for minimizing pollutants in the storm water discharge;

Using technologically available, economically practicable, and achievable methods in light of best industry practices;

Assessing the type and quantity of pollutants, including their potential to impact receiving water quality, is critical to designing effective control measures that will achieve the limits in this permit;

Minimizing impervious areas at the permittees facility and infiltrating runoff onsite (including bioretention cells, green roofs, and pervious pavement, among other approaches) can reduce runoff and improve groundwater recharge and stream base flows in local streams, although care must be taken to avoid ground water contamination;

Dissipate storm water runoff into open vegetated swales and natural depressions to reduce in stream impacts of erosive flows;

Conserving and/or restoring of riparian buffers will help protect streams from storm water runoff and improve water quality; and

Using treatment interceptors (e.g., sand filters) may be appropriate in some instances to minimize the discharge of pollutants.

Describe the Best Management Practices (BMPs) to be implemented to control pollutants in storm water discharges. For each major activity identified:

- Clearly describe appropriate control measures.
- Describe the general sequence during the construction process in which the measures will be implemented.
- Describe maintenance and inspection procedures to be undertaken for that specific BMP.
- Include protocols, thresholds, and schedules for cleaning, repairing, and/or replacing damaged or failing BMPs.
- Identify staff responsible for maintaining BMPs. (If your SWPPP is shared by multiple operators, indicate the operator responsible for each BMP.)

Categorize each BMP under one of the following areas of BMP activity as described below:

1. *Minimize the Amount of Soil Exposed during Construction Activity (4.2.2) & Site Delineation (4.2.1)*
2. *Maintain Natural Buffer Areas (4.2.3) & Clearing Vegetation (4.2.4)*
3. *Control Storm Water Discharges and Flow Rates (4.2.5)*
4. *Protect Steep Slopes (4.2.6)*
5. *Storm Water Inlet Protection (4.3.1)*
6. *Water Body Protection (4.3.2)*
7. *Down-Slope Sediment Controls (4.3.3)*
8. *Stabilized Construction Vehicle Access and Exit Points (4.3.4)*
9. *Track-Out from vehicles (4.3.5)*
10. *Dust Generation (4.3.6)*
11. *Stockpile Management (4.3.7)*
12. *Sediment Basins (4.3.9)*
13. *Dewatering (4.4)*
14. *Soil Stabilization (4.5)*
15. *Treatment Chemicals / Active Treatment Systems (4.6)*
16. *Good Housekeeping Measures (4.8)*
17. *Spill Notification (4.9)*
18. *Construction and Waste Materials (5.3.7)*
19. *Permanent/Post-Construction BMPs (4.11)*
20. *Projects near a Public Water System (PWS) (4.10)*

- Note the location of each BMP on your site map(s).
- Any structural BMPs should have design specifications and details referred to in Section 11 or included in Appendix B.

For more information or ideas on BMPs, see the DEC *Alaska Storm Water Guide*: https://dec.alaska.gov/water/wastewater/stormwater/resources/guidance/ & for a list of Alaska specific BMPs look at the DOT&PF *Alaska SWPPP Guide*'s Appendix B - BMP Guide for Erosion & Sediment Control at http://dot.alaska.gov/stwddes/desenviron/assets/pdf/bmp/bmp_all.pdf

10.0 CONTROL MEASURES/BEST MANAGEMENT PRACTICES (4.0; 5.3.6)

Much of the guidance in this section is for both the ESCP & SWPPP preparers. Carefully read through the requirements listed below when filling out Section 10. When developing this section, think about how they are going to construct the project. Look at means and measures but do not direct the contractor…merely suggest. Consider 'prior to/upon construction' methods (i.e. upon placing culvert install a fiber roll and outlet protection). The following sections describe BMPs that will or may be used as necessary to prevent erosion and control sediment.

The selection, design, installation, maintenance, and removal of control measures must be in accordance with good engineering practices, manufacturer specifications, and address site-specific conditions such as precipitation, site topography, soil characteristics, and growing season.

The plan preparer will use this section to describe the types and locations of control measures and BMPs to be installed and maintained in accordance with CGP Part 4.0.

Describe each control measure and BMP, including installation schedule and maintenance, inspection, and removal requirements. You may include a brief description of each BMP in this section and refer to detailed installation, maintenance, inspection, removal requirements, and manufacturer's specifications that **MUST** be included in the Appendix B.

If a control measure or BMP will be used to comply with more than one element of this section, you do not need to repeat the detailed installation, maintenance, inspection, removal requirements, and manufacturer's information. For each repeated element, identify the control measure or BMP to be used, and refer to the section or Appendix B where the detailed information is presented.

The person(s) identified in Section 2.0 of this SWPPP will be responsible for ensuring compliance with the installation, maintenance, inspection, and removal of these control measures.

The format to be used is:

BMP Description:

Describe purpose, applicability, limitations and design. If using a BMP manual or publication, this information may be found there.

BMP Manual/Publication:

Provide the citation information as described below. If referencing Appendix B, where the BMP details are provided, ensure the attached sheets clearly identify this information.

Installation Schedule:

Identify the activity or phase prior to which the BMP will be installed or the activity that requires this BMP to be installed before it can begin.

Maintenance and Inspection:

Describe the thresholds and/or indicators for maintenance and protocols for inspecting the BMP. Describe the maintenance procedures. If using a BMP manual or publication, this information may be found there.

Responsible Staff:

Name the position and company who is responsible for installation and maintenance.

How to Cite a BMP Publication:

DOT&PF requires citations for the BMP manual or publication used to select and design the BMP, along with a description of the BMP. If no BMP manual or publication was used to select or design a given BMP then state “No BMP manual or publication was used in the design or selection of this BMP”. BMP designs submitted by the contractor and approved by the Project Engineer may be used but still must state that no manual or publication was used.

BMP Manuals/Publications: BMP manuals describe each BMP and outline details such as installation, design parameters, applicability/limitations, maintenance, and targeted pollutants. To cite a manual, include the title, author (individual or agency) and date of publication.

Be careful when citing outside of the state control measures or BMPs. Read through them to make sure they do not put any additional restrictions that go beyond the CGP. If citing outside of state BMPs, make sure to mark out any requirements that do not apply to this project or do not meet CGP requirements and cite as ‘modified from (insert BMP manual title).

DOT&PF Specifications and Plan Sheets: The publication cited may be the DOT&PF contract specifications and plan sheets provided that the minimum information regarding the BMP is included (those listed above).

When the plans and specifications are used, the reference must include the sheet or page number and these must be appended to the SWPPP. If the specifications and plan sheets do not provide the minimum information, the plan preparer must provide the missing information in the plan. Any drawing or description developed by the plan preparer must include the statement “No BMP manual or publication was used for this design.”

Manufacturer’s Specification Sheet: Referencing a manufacturer’s specification sheet is suitable only if it includes all the necessary information listed in the above subsection. When using the manufacturer’s specification sheet(s), provide the product name, manufacturer, and date of copyright, and attach copies of the specification sheet(s) to the plan. It may also be helpful to provide the manufacturer’s website if the information was obtained online. You may deviate from manufacturer’s specifications where you provide justification for such deviation and include documentation of your rationale in the ESCP/SWPPP.

Permanent/Post-Construction Control Measures: Identify any permanent/post-construction control measures that will be installed during the construction process and not discussed elsewhere in the SWPPP (permanent Soil Stabilization measures should be covered in section 10.13).

This section discusses control measures that should be implemented based on knowledge of site conditions, expected construction sequencing, and other factors relevant to this project. Actual construction methods, sequencing, materials, and equipment used by the selected Contractor may vary from assumptions used in preparation of this ESCP. This information will be used by the Contractor in developing the SWPPP and modifying the provided Site Map as required under the project specifications Section 641, Erosion, Sediment, and Pollution Control. Preparation, execution, and revision of the SWPPP will be the responsibility of the Contractor.

10.1 Minimize Amount of Soil Exposed during Construction Activity (4.2.2)

Describe how the disturbed land areas (e.g., clearing and grading) and undisturbed land areas (e.g., trees, boundaries of sensitive areas, or buffers established by CGP Part 4.2.3) will be delineated.

Describe the areas that will be disturbed for each phase of construction, and the methods you will use (e.g., signs, fences, etc.) to protect the areas that are to be left undisturbed. Construction activities must be phased to minimize the extent and duration of exposed soil.

Identify natural features and describe how each will be protected during construction activity.

Describe how native topsoil will be preserved. Native topsoil should be preserved for later use with on-site stockpiles, unless deemed infeasible by space constraints or site design criteria creates impervious surfaces (CGP Part 4.2.2.1).

10.1.1 Site Delineation (4.2.1)

Prior to initiating construction activities, work limits will be delineated by construction staking or flagging. Effort should be made to preserve as much existing/natural vegetation as practicable, unless otherwise directed by the Engineer or the Plans.

BMP Description: *Site Delineation BMP-54.00*	
BMP Manual/Publication: *DOT&PF, Alaska SWPPP Guide, March 2021*	
☐ ***Permanent***	☑ ***Temporary***
***Installation Schedule*:**	Installed prior to construction operations.
***Maintenance and Inspection*:**	Inspection: Look for any areas where the barrier/flagging has been removed or visibility has been reduced. Maintenance: The fencing or flagging should be kept up to maintain its function. If it is torn or frayed, replace it. If the posts/anchors are loose, reinstall the fencing or flagging.
***Responsible Staff*:**	SWPPP Manager & Superintendent, Contractor

10.2 Maintain Natural Buffer Areas (4.2.3)

Are stream crossings or waters of the U.S. located within or immediately adjacent to the property?

☑ Yes ☐ No

If YES, describe the control measures to be implemented to comply with the CGP Part 4.2.3 (e.g., buffer areas, perimeter controls, etc.).

You must maintain natural buffer areas at stream crossings and around the edge of any waters of the U.S. that are located within or immediately adjacent to the construction activity in accordance with the following:

- The buffer must be a minimum of 25 feet wide, or the width as required by local ordinance, unless infeasible based on site dimensions;
- Exceptions are allowed for water dependent activities, specific water access activities, or necessary water crossings;

- A permittee should, to the extent practicable, use perimeter controls adjacent to buffers and direct storm water sheet flow to buffer areas to increase sediment removal and maximize storm water infiltration.

The Project crosses many major and minor drainages to Upper Trail Lake and Lower Trail Lake. Perimeter controls will be installed where work is performed near these crossings, and temporary access to embankment repair and riprap placement areas will provide the minimum 25-foot-wide buffer where feasible. If site dimensions do not allow for the minimum 25-foot-wide buffer, the maximum feasible buffer will be provided.

BMP Description: *Preservation of Existing Vegetation/Vegetation Buffer BMP - 38.00*	
BMP Manual/Publication: *ADEC Storm Water Guide/ Alaska DOT&PF SWPPP Guide, March 2021*	
☑ ***Permanent***	☐ ***Temporary***
***Installation Schedule*:**	Before clearing operations begin.
***Maintenance and Inspection*:**	Inspection: Look for any areas where the barrier has been removed or visibility of barrier has been reduced. Buffer must be a minimum of twenty-five feet wide. Maintenance: Make repairs if any conditions noted under inspection are found.
***Responsible Staff*:**	SWPPP Manager & Superintendent, Contractor

10.2.1 Clearing Vegetation (4.2.4)

Clearing of vegetation that disturbs the vegetative mat and exposes soil is **prohibited** prior to obtaining authorization under the CGP.

Cutting of trees and brush while the ground is frozen without disturbing the vegetative mat for the purpose of clearing in accordance with the U.S. Fish & Wildlife Service "Recommended Time Periods for Avoiding Vegetation Clearing" is allowed prior to the submittal of a project's NOI. If vegetation clearing that disturbs the vegetative mat and occurs after the onset of spring thaw (as defined in Appendix C) or conditions that consist of above freezing temperatures that cause melting of snow, the permittee must develop a SWPPP and file an NOI. Operators must receive authorization under this permit and otherwise comply with the terms of this permit prior to such clearing.

10.3 Control Storm Water Discharges and Flow Rates (4.2.5)

Prior to construction of each phase, the Contractor shall install control measures to control storm water from running onto the site (i.e. above top of cut on east side of the corridor) and to control erosion and sediment transport downstream through flumes and culverts. The Contractor must inspect and repair devices after each rain event to verify storm water controls are effective. Storm water flow must be slowed down or contained during periods of heavy flow.

Describe control measures to comply with the CGP (e.g., divert storm water around the site, slow down or contain storm water, use of velocity dissipation devices, installing permanent storm water management controls prior to construction of site improvements to the extent practicable, etc.). Storm water that may concentrate must be slowed down or contained.

Section 619 of the project Specifications identifies check dams, compost berms, sandbags and fiber rolls as allowable BMPs for use within the project. Riprap and ditch lining are prescribed to control flow rates along drainage channels within the project area. This rock can be used as a rock filter berm if needed within the project area until final placement.

***BMP Description*:** *Rock Filter Berm BMP – 16.00*	
BMP Manual/Publication: *Alaska DOT&PF SWPPP Guide, March 2021*	
☐ ***Permanent***	☑ ***Temporary***
***Installation Schedule*:**	Install within 24 hours after grubbing
***Maintenance and Inspection*:**	Inspection: Check berm for signs of damage or collapse. Check for sediment accumulation upstream and evidence of erosion downstream. Maintenance: Repair any damage. Remove sediment buildup when it reaches one-half the dam height.
***Responsible Staff*:**	SWPPP Manager & Superintendent, Contractor

***BMP Description*:** *Temporary Check Dam (Sandbag) BMP – 33.00*	
BMP Manual/Publication: *Alaska DOT&PF SWPPP Guide, March 2021*	
☐ ***Permanent***	☑ ***Temporary***
***Installation Schedule*:**	Install check dam in drainage ditches prior to construction activities in the area
***Maintenance and Inspection*:**	Inspection: Place sandbags so initial row makes tight contact with the ditch line for the length of the dam; tightly abut all sandbags; stagger sandbag lifts so that center of the bag is placed on the space between bags on the pervious lift Maintenance: Remove sediment buildup when is one-half the dam height; replace damaged sandbags as necessary; repair bank undercuts
***Responsible Staff*:**	SWPPP Manager & Superintendent, Contractor

***BMP Description*:** *Compost Berm BMP-04.00*	
BMP Manual/Publication: *DOT&PF, Alaska SWPPP Guide, March 2021*	
☐ ***Permanent***	☑ ***Temporary***
***Installation Schedule*:**	Installed prior to soil disturbance in the contributing drainage area.
***Maintenance and Inspection*:**	Inspection: Check for damage, changes in dimensions, sediment accumulation, and signs of overtopping. Maintenance: Reshape or add additional compost. Remove accumulated sediment before it reaches one-half of berm height.
***Responsible Staff*:**	SWPPP Manager & Superintendent, Contractor

***BMP Description*:** *Fiber Rolls for Erosion and Sediment Control BMP-10.01*	
BMP Manual/Publication: *Alaska DOT&PF SWPPP Guide, March 2021*	
☐ ***Permanent***	☑ ***Temporary***
***Installation Schedule*:**	Installed prior to soil disturbance in the contributing drainage area.
***Maintenance and Inspection*:**	Inspection: Ensure that the rolls are in contact with the soil and are entrenched. Look for scouring underneath the rolls. Check for damage to rolls.

	Maintenance: If rolls are crushed, torn, slumping, or split, the damaged sections must be replaced. Remove sediment accumulated upslope of the roll when it reaches one-half the distance between the top of the fiber roll and the ground surface.
***Responsible Staff*:**	SWPPP Manager & Superintendent, Contractor

10.3.1 Protect Steep Slopes (4.2.6)

Will steep slopes be present at the site during construction? ☑ Yes ☐ No

Steep slopes will be present during construction on both the east and west sides of the highway. Clearing and grubbing will be kept to the minimum extent necessary for blasting/rock cutting activities, culvert replacements, and flume reconstruction. Natural drainages will be maintained and the Contractor will install control measures to control flow, intercepting or diverting as necessary.

If YES, describe control measures to be implemented to comply with CGP Part 4.2.6 (e.g., reduce continuous slope length, divert storm water around slopes, stabilized exposed areas, etc.).

See details of the project design drawings for details on slope stabilization for slopes steeper than 2:1. High Performance Turf Reinforcement Mat (HPTRM) in conjunction with hydroseeding is prescribed.

BMP Description: *Rolled Erosion Control Products for Slopes BMP-18.00*	
BMP Manual/Publication: *DOT&PF, Alaska SWPPP Guide, March 2021*	
☐ ***Permanent***	☑ ***Temporary***
Installation Schedule:	Install as soon as possible after disturbance of steep slopes is complete
Maintenance and Inspection:	inspection: Look continuous contact with the ground surface and proper anchoring. Maintenance: Repair any tears and reapply anchors if necessary to ensure ground contact.
Responsible Staff:	SWPPP Manager & Superintendent, Contractor

BMP Description: *Fiber Rolls for Erosion Control BMP-10.01.a*	
BMP Manual/Publication: *DOT&PF, Alaska SWPPP Guide, March 2021*	
☐ ***Permanent***	☑ ***Temporary***
Installation Schedule:	Installed prior to soil disturbance in the contributing drainage area.
Maintenance and Inspection:	Inspection: Look for roll ends remain abutted tightly. Ensure that the rolls are in contact with the soil and are entrenched. Look for scouring underneath the rolls. Maintenance: If rolls are crushed, torn, slumping, or split, the damaged sections must be replaced. Remove sediment accumulated upslope of the roll when it reaches one-half the distance between the top of the fiber roll and the ground surface.
Responsible Staff:	SWPPP Manager & Superintendent, Contractor

BMP Description: *Tackifier BMP-56.00*	
BMP Manual/Publication: *DOT&PF, Alaska SWPPP Guide, March 2021*	
☐ ***Permanent***	☑ ***Temporary***
Installation Schedule:	Install as soon as possible after disturbance of steep slopes is complete
Maintenance and Inspection:	Inspection: Look continuous contact with the ground surface. Maintenance: Repair any tears and reapply anchors if necessary to ensure ground contact.
Responsible Staff:	SWPPP Manager & Superintendent, Contractor

BMP Description: *Hydraulic Erosion Control Products BMP-51.00*	
BMP Manual/Publication: *DOT&PF, Alaska SWPPP Guide, March 2021*	
☐ ***Permanent***	☑ ***Temporary***
Installation Schedule:	Install as soon as possible after disturbance. Follow Section 618 of the project Specifications for seed and fertilizer application rates. Use in conjunction with a tackifier on steep slopes.
Maintenance and Inspection:	Inspection: Ensure adequate coverage as well as seed and fertilizer distribution. Maintenance: Reapply if needed.
Responsible Staff:	SWPPP Manager & Superintendent, Contractor

Sediment Controls:

Sediment control measures (e.g. sediment ponds, traps, filters, etc.) must be constructed as one of the first steps in grading. These control measures must be functional before other land disturbing activities take place.

10.4 Storm Water Inlet Protection Measures (4.3.1)

Describe control measures (e.g., filter berms, perimeter controls, temporary diversion dikes, etc.) to be implemented to protect all inlets receiving storm water from the project during the duration of the project.

BMP Description: Storm Drain Inlet Sediment Protection – Curb and Area Inlets, BMP 25.00-29.00	
BMP Manual/Publication: *Alaska SWPPP Guide, March 2021*	
☐ ***Permanent***	☑ ***Temporary***
Installation Schedule:	For existing inlets, prior to soil disturbing activities in the contributing drainage area. For newly constructed inlets, once operational unless the contributing drainage area has been permanently stabilized.
Maintenance and Inspection:	Inspection: Look for sediment accumulation that inhibits flow through control measure. Look for visible tears or punctures that allow contaminated flow to pass through untreated. Maintenance: Remove accumulated sediment on a frequent basis.

	Repair or replace any damaged control measure.
Responsible Staff:	SWPPP Manager & Superintendent, Contractor

10.5 Water Body Protection Measures (4.3.2)

Describe control measures selected to minimize discharge of sediment prior to entry into water bodies located on or immediately downstream of the site.

Prior to the start of construction, perimeter control will be established to minimize discharge of sediment into drainages to Upper Trail Lake and Lower Trail Lake (Section 10.2). Existing vegetation will be maintained to the greatest extent practical and will provide most of the protection needed to prevent sediment transport off-site. Section 619 of the project Specifications calls for other inlet protection measures such as sandbags as well as additional BMPs to be implemented where a sufficient vegetation buffer is not practicable including fiber rolls, compost berms, and silt fence.

BMP Description: *Vegetation Buffer BMP-38.00*	
BMP Manual/Publication: *DOT&PF, Alaska SWPPP Guide, March 2021*	
☐ ***Permanent***	☑ ***Temporary***
Installation Schedule:	Delineate limits of vegetation buffer prior to the start of construction.
Maintenance and Inspection:	Inspection: Inspect limits of site delineation for disturbance. Check for damage to vegetation by equipment and/or vehicles. Check for sediment deposition and/or damage from erosion. Maintenance: Replace or repair missing or damaged site delineations. Repair damaged vegetation. If sediment deposition or erosion is occurring, add additional control measures.
Responsible Staff:	SWPPP Manager & Superintendent, Contractor

BMP Description: *Fiber Rolls for Erosion and Sediment Control BMP-10.01*	
BMP Manual/Publication: *DOT&PF, Alaska SWPPP Guide, March 2021*	
☐ ***Permanent***	☑ ***Temporary***
Installation Schedule:	Installed prior to soil disturbance in the contributing drainage area.
Maintenance and Inspection:	Inspection: Ensure that the rolls are in contact with the soil and are entrenched. Look for scouring underneath the rolls. Check for damage to rolls. Maintenance: If rolls are crushed, torn, slumping, or split, the damaged sections must be replaced. Remove sediment accumulated upslope of the roll when it reaches one-half the distance between the top of the fiber roll and the ground surface.
Responsible Staff:	SWPPP Manager & Superintendent, Contractor

BMP Description: *Silt Fence BMP-20.00*	
BMP Manual/Publication: *DOT&PF, Alaska SWPPP Guide, March 2021*	
☐ ***Permanent***	☑ ***Temporary***
Installation Schedule:	Install prior to excavation/ fill in contributing drainage area.
Maintenance and Inspection:	Inspection: Check for continuity, collapse, undermined areas and damage. Inspect fabric for tears, punctures, fraying, weather, and compromised integrity. Confirm that the fence posts are secure. Ensure the fence is keyed in and that there is no undercutting. Look for sediment accumulation upslope of fence and erosion downstream of the fence. Look for signs of inadequate protection of off-site sensitive areas. Check for sediment flowing through fence. Check for holes in fence where wire ties are used to secure geotextile fabric to the support post. Maintenance: Replace damaged fabric. Remedy fence sags as needed. Remove accumulated sediment before it accumulates to one–third of the available storage. If there is evidence of excessive sedimentation against the silt fence, provide increased erosion control upslope.
Responsible Staff:	SWPPP Manager & Superintendent, Contractor

BMP Description: *Compost Berm BMP-04.00*	
BMP Manual/Publication: *DOT&PF, Alaska SWPPP Guide, March 2021*	
☐ ***Permanent***	☑ ***Temporary***
Installation Schedule:	Installed prior to soil disturbance in the contributing drainage area.
Maintenance and Inspection:	Inspection: Check for damage, changes in dimensions, sediment accumulation, and signs of overtopping. Maintenance: Reshape or add additional compost. Remove accumulated sediment before it reaches one-half of berm height.
Responsible Staff:	SWPPP Manager & Superintendent, Contractor

***BMP Description*:** *Culvert Inlet Protection BMP-08.00*	
BMP Manual/Publication: *DOT&PF, Alaska SWPPP Guide, March 2021*	
☐ ***Permanent***	☑ ***Temporary***
***Installation Schedule*:**	Immediately when culvert is installed, bedded, and backfilled. All culvert inlet protection will be installed within 24 hours of culvert placement.
***Maintenance and Inspection*:**	Inspection: Look for roll ends remain abutted tightly. Ensure that the rolls are in contact with the soil and are entrenched. Look for scouring underneath the rolls. Maintenance: Remove accumulated sediment before it reaches 1/3 of the design depth. Repair any structural damage and restore structure to original dimensions and is in full contact with soil around the inlet.

***Responsible Staff*:**	SWPPP Manager & Superintendent, Contractor

10.6 Down-Slope Sediment Controls (4.3.3)

Describe sediment controls (e.g., silt fence or temporary diversion dike) for any portion of the down-slope and side-slope perimeter where storm water will be discharged from disturbed areas of the site.

Riprap and ditch lining are called for on most down-slope locations. See Design Drawing for details as well as Sections 610 and 611 of the project Specifications. Temporary check dams may be used as an energy dissipation device until construction is completed.

BMP Description: *Temporary Check Dam (Sandbag) BMP – 33.00*	
BMP Manual/Publication: *DOT&PF, Alaska SWPPP Guide, March 2021*	
☐ ***Permanent***	☑ ***Temporary***
Installation Schedule:	Install check dam in drainage ditches prior to construction activities in the area
Maintenance and Inspection:	Inspection: Place sandbags so initial row makes tight contact with the ditch line for the length of the dam; tightly abut all sandbags; stagger sandbag lifts so that center of the bag is placed on the space between bags on the pervious lift Maintenance: Remove sediment buildup when is one-half the dam height; replace damaged sandbags as necessary; repair bank undercuts
Responsible Staff:	SWPPP Manager & Superintendent, Contractor

10.7 Stabilized Construction Vehicle Access and Exit Points (4.3.4)

Vehicle access points must be limited as much as possible and must be stabilized.

Describe location(s) of vehicle entrance(s) and exit(s), procedures to remove accumulated sediment off-site (i.e., vehicle tracking), and stabilization practices (i.e., stone pads and/or wash racks) to minimize off-site vehicle tracking of sediments and discharges to storm water.

Any rubber tire operating on bare soils will require a stabilized entrance / exit prior to driving on paved surfaces. Tracked equipment must be cleaned prior to operating on paved surfaces. The existing gravel surfaces will be used for the stabilized access and exit points.

BMP Description: Stabilized Construction *Exit - BMP 23.00 and 24.00*	
BMP Manual/Publication: *Alaska DOT&PF SWPPP Guide, October 2021*	
☐ ***Permanent***	☑ ***Temporary***
Installation Schedule:	Before traffic begins to enter and exit the construction site
Maintenance and Inspection:	Inspection: Look for surface voids, amount of sediment deposited on top of the gravel, look for mud and gravel deposited on the paved roadways Maintenance: Replace gravel material when surface voids are visible, top dress with 2-inch gravel when the pad becomes laden with sediment. Repair and clean out any structures used to trap sediment
Responsible Staff:	SWPPP Manager & Superintendent, Contractor

10.8 Dust Generation and Track-Out from Vehicles (4.3.5, 4.3.6)

Describe control measures to minimize the generation of dust and off-site vehicle tracking of sediment. Dust must be minimized prior to the vehicle exits by application of water or other dust suppression techniques.

The contractor will be required to remove any debris including soil and rock from the roadway. Any material tracked will be swept up daily.

BMP Description: *Street Sweeping and Vacuuming for Sediment Control - BMP 55.00*	
BMP Manual/Publication: *Alaska DOT&PF SWPPP Guide, October 2021*	
☐ ***Permanent***	☑ ***Temporary***
Installation Schedule:	Perform as needed to minimize dust and track-out from vehicles as needed.
Maintenance and Inspection:	Inspection: Inspect streets, apron, taxiways, and runways and sweep up accumulated sediment as needed. Maintenance: Perform routine maintenance before next storm event, when practicable.
Responsible Staff:	SWPPP Manager & Superintendent, Contractor

10.9 Soil Management and Soil Stockpile (4.3.7)

Will soil stockpiles be at the site during construction? ☐ Yes ☑ No

The Contractor is responsible for staging and stockpile areas and should coordinate this location and appropriate BMPs with the engineer.

If YES, describe control measures intended to control sediment loss from the stockpiles (e.g., tarps or perimeter straw wattles). Show location(s) of stockpile(s) on site maps, if known. Stockpiles must be stabilized or covered, protected with sediment controls and located away from storm water inlets, conveyance channels, or water bodies, if possible.

BMP Description: *Plastic Covering BMP-12.00*	
BMP Manual/Publication: *DOT&PF, Alaska SWPPP Guide, March 2021*	
☐ ***Permanent***	☑ ***Temporary***
Installation Schedule:	Plastic covering will be installed when the stockpile will not be actively worked on more than 14 days or when there are windy conditions. Plastic covering will be secured either by weighted or trenched method.
Maintenance and Inspection:	Inspection: Look for unsecured covering or locations of erosion under the covering. Maintenance: Re-secure covering.
Responsible Staff:	SWPPP Manager & Superintendent, Contractor

10.10 Sediment Basins (4.3.9)

Refer to CGP Part 4.3.8 to determine if a sediment basin is required for your site.

Will a sediment basin be required during construction? ☐ Yes ☑ No

If YES, provide a brief description of the sediment basin here. Append detailed design information in appendices (e.g., calculated volume of runoff from a two-year, 24-hour storm, or other assumptions used to calculate appropriate sediment-basin size). Show location of sediment basin(s) on site maps.

Construction phasing will be implemented such that areas will be stabilized prior to disturbing additional ground (refer to figures in Appendix A for drainage patterns and disturbance areas).

10.11 Dewatering (4.4)

Describe dewatering practices to be implemented if water must be removed from an area so construction activity can continue.

Will dewatering be conducted during construction? ☑ Yes ☐ No

Will excavation dewatering be conducted within 1,500 feet of a DEC mapped contaminated site found on the DEC website? ☐ Yes ☑ No

For DEC's contaminated sites:
http://www.arcgis.com/home/item.html?id=315240bfbaf84aa0b8272ad1cef3cad3.

If yes to above question, review and comply with the DEC General Permit for Excavation Dewatering (AKG002000 - https://dec.alaska.gov/water/wastewater/stormwater/permits-approvals/dewater/), or most current version, for specific requirements

Describe control measures to be implemented to comply with dewatering discharges authorized either under the CGP or the DEC General Permit for Excavation Dewatering requirements.

Per Section 603-3.05 of the project Specifications, the Contractor must submit a Temporary Water Diversion and Dewatering plan for each waterway diversion needed for culvert/pipe work. Potential BMPs may include but are not limited to those identified here.

BMP Description: *Temporary Diversion Conveyance BMP – 34.00 & 35.00*	
BMP Manual/Publication: *Alaska DOT&PF SWPPP Guide, October 2021*	
☐ ***Permanent***	☑ ***Temporary***
Installation Schedule:	Prior to culvert replacement
Maintenance and Inspection:	Inspection: Check for erosion at inlet and outlet of conveyance. Check for any damage to conveyance structure. Maintenance: Repair any damage. Clean any accumulated debris. Provide energy dissipators if needed.
Responsible Staff:	SWPPP Manager & Superintendent, Contractor

BMP Description: *Pumped Stream Diversion BMP – 15.00*
BMP Manual/Publication: *Alaska DOT&PF SWPPP Guide, October 2021*

☐ ***Permanent***	☑ ***Temporary***
Installation Schedule:	Prior to culvert replacement
Maintenance and Inspection:	Inspection: Monitor pumps, intake and discharge points when pumping. Ensure pumps are adequately sized. Check system for leaks. Check discharge point for erosion. Maintenance: Repair or reinforce structure. Install energy dissipator to prevent erosion at discharge point.
Responsible Staff:	SWPPP Manager & Superintendent, Contractor

BMP Description: *Excavation Dewatering BMP – 09.00*	
BMP Manual/Publication: *Alaska DOT&PF SWPPP Guide, October 2021*	
☐ ***Permanent***	☑ ***Temporary***
Installation Schedule:	If need to provide dry work area.
Maintenance and Inspection:	Inspection: Monitor pumps, intake and discharge points when pumping. Check discharge point for erosion. Maintenance: Install energy dissipator to prevent erosion at discharge point.
Responsible Staff:	SWPPP Manager & Superintendent, Contractor

BMP Description: *Contained Silt Control System BMP – 07.00*	
BMP Manual/Publication: *Alaska DOT&PF SWPPP Guide, October 2021*	
☐ ***Permanent***	☑ ***Temporary***
Installation Schedule:	Prior to culvert replacement or installation
Maintenance and Inspection:	Inspection: Check for fabric tears or puncture, excess leakage, or blockage. Confirm that hose is secure Maintenance: Replace damaged bag. Repair any erosion around bag. Correct cause or erosion
Responsible Staff:	SWPPP Manager & Superintendent, Contractor

10.12 Permanent/Post-Construction BMPs (4.11)

Describe any permanent/post-construction control measures that will be installed during the construction process AND have not been discussed elsewhere in this document.

Examples of these measures are:

- Biofilters
- Detention/Retention Devices
- Earth Dikes, Drainage Swales, and Lined Ditches
- Infiltration Basins
- Vegetated Strips and/or Swales

Energy dissipators have been designed for much of the drainage features included in this project. Sheets

E08-E09 of the Design Drawings include details for most of these features and Sheets E10 – E56 of the plan sheets identify culvert installation details. The remaining culvert installations or replacements include end sections identified in Section 603 of the project Specifications.

10.12.1 Soil Stabilization (4.5, 5.3.6.3)

The project must stabilize all disturbed areas of the site to minimize on-site erosion and sedimentation and the resulting discharge of pollutants.

Soil stabilization requirements vary depending on the mean annual precipitation for the site. Refer to CGP Part 4.5 for specific requirements.

Refer to the Alaska Plant Materials Center's Alaska Coastal Revegetation & Erosion Control Guide and Interior Alaska Revegetation & Erosion Control Guide at http://plants.alaska.gov for help in selecting appropriate seed mixes and information on methods for revegetation.

Describe permanent & temporary stabilization control measures and sequence of installation.

Describe how the site will be stabilized prior to seasonal freeze-up.

As per Part 4.5 of the CGP, the Contractor must consider the deadlines for soil stabilization in the sequencing of the project's construction. Stabilization must be initiated whenever any clearing, grading, excavating, or other earth disturbing activities have ceased permanently on any portion of the site or have temporarily ceased and will not resume for a period exceeding 14 calendar days. This process must be started no later than the end of the next work day following cessation of earth-disturbing activities.

Temporary stabilization must be completed as soon as practicable but no later than 14 calendar days after the initiation of soil stabilization measures. If the temporary stabilization is vegetative, all activities necessary to initially seed or plant the area must be completed. If the temporary stabilization is nonvegetative, the installation or application of all such non-vegetative measures must be complete.

Permanent, or final, stabilization must be complete within seven days of initiating the final stabilization. To be considered complete, the permittee is required to have completed all soil conditioning, seeding, watering, mulching, and any other required activities for the establishment of vegetative and/or non vegetative cover measures.

The permittee should also consider the requirements to terminate authorization under the CGP: final stabilization must be achieved on all portions of the site for which the permittee is responsible; and all ground disturbing construction activity or use of related support activities are complete.

BMP Description: *Hydraulic Erosion Control Products BMP-51.00*	
BMP Manual/Publication: *Alaska DOT&PF SWPPP Guide, October 2021*	
☐ ***Permanent***	☑ ***Temporary***
Installation Schedule:	Install as soon as possible after disturbance. Follow Section 618 of the project Specifications for seed and fertilizer application rates. Use in conjunction with a tackifier on steep slopes.
Maintenance and Inspection:	Inspection: Ensure adequate coverage as well as seed and fertilizer distribution. Maintenance: Reapply if needed.
Responsible Staff:	SWPPP Manager & Superintendent, Contractor

BMP Description: *Tackifier BMP-56.00*	
BMP Manual/Publication: *Alaska DOT&PF SWPPP Guide, October 2021*	
☐ ***Permanent***	☑ ***Temporary***
Installation Schedule:	Install hydraulically in conjunction with seed and fertilizer.
Maintenance and Inspection:	Inspection: Check for adequate coverage. Maintenance: Reapply if necessary to achieve final stabilization.
Responsible Staff:	SWPPP Manager & Superintendent, Contractor

BMP Description: *Compost Blanket BMP-50.00*	
BMP Manual/Publication: *Alaska DOT&PF SWPPP Guide, October 2021*	
☐ ***Permanent***	☑ ***Temporary***
Installation Schedule:	Install prior to seeding.
Maintenance and Inspection:	Inspection: Check for slumping and weed development. Maintenance: Reapply if necessary.
Responsible Staff:	SWPPP Manager & Superintendent, Contractor

BMP Description: *Permanent Seeding and Soil Amendments BMP-52.00 & 53.00*	
BMP Manual/Publication: *Alaska DOT&PF SWPPP Guide, October 2021*	
☐ ***Permanent***	☑ ***Temporary***
Installation Schedule:	Install as soon as possible after disturbance where indicated for final stabilization. Seeding along with fertilizer, mulch and tackifier to be applied using hydraulic method.
Maintenance and Inspection:	Inspection: Check for adequate coverage. Maintenance: Reapply if necessary to achieve final stabilization.
Responsible Staff:	SWPPP Manager & Superintendent, Contractor

BMP Description: *Temporary Seeding BMP – 57.00*	
BMP Manual/Publication: *Alaska DOT&PF SWPPP Guide, October 2021*	
☐ ***Permanent***	☑ ***Temporary***
Installation Schedule:	As soon as practicable on exposed areas not actively being worked.
Maintenance and Inspection:	Inspection: Make sure areas are not disturbed or inadequately covered and that the temporary seed is adequately irrigated. Maintenance: If large bare spots are observed (due to inadequate application coverage or disturbance), re-apply seed as appropriate. Modify irrigation as needed to properly cover the area.
Responsible Staff:	SWPPP Manager & Superintendent, Contractor

10.13 Treatment Chemicals (4.6; 5.3.6.4)

Provide documentation for all treatment chemicals and/or an Active Treatment System (ATS) to comply with CGP Part 4.6. Submit cationic treatment chemical use or ATS to DEC at least 14 days for approval be for installing.

Will treatment chemicals be used to control erosion and/or sediment during construction?

☐ Yes ☑ No

If YES, comply with CGP Part 4.6 and complete the following sections (10.15 & 10.16).

10.14 Treatment Chemicals (4.6.1)

The use of treatment chemicals to reduce erosion from the land or sediment in a storm water discharge is allowed provided all the requirements of CGP Part 4.6 are met. Use conventional sediment controls before and after the application of treatment chemicals. Chemicals may only be applied where storm water is treated upstream and is directed to a sediment control (e.g., sediment trap, sediment basin) before discharge.

No treatment chemicals will be used on this project.

If YES, comply with ACGP Part 4.6 and complete the following subsections. If NO, delete the following subsections.

10.15 Good Housekeeping Measures (4.8)

The project must design, install, implement, and maintain effective good housekeeping measures to prevent and/or minimize the discharge of pollutants. The project must include appropriate measures for any of the following activities at the site.

Consult the DEC Storm Water Guide or other resources for more information or ideas on BMPs. See also the EPA's National Menu of BMPs at https://www.epa.gov/npdes/national-menu-best-management-practices-bmps-stormwater for a list of Alaska specific BMPs look at the *Alaska SWPPP Guide*'s Appendix B - BMP Guide for Erosion & Sediment Control at http://www.dot.state.ak.us/stwddes/desenviron/assets/pdf/bmp/bmp_all.pdf

10.15.1 Washing of Equipment and Vehicles (4.8.1)

Will equipment and vehicle washing and/or wheel wash-down be conducted at the site?

☐ Yes ☑ No

10.15.2 Fueling and Maintenance Areas (4.8.2)

Describe equipment/vehicle fueling and maintenance practices to be implemented to control pollutants to storm water (e.g., secondary containment, drip pans, spill kits, etc.).

Describe spill prevention and control measures to be implemented, including ways to reduce the chance of spills, stop the source of spills, contain and clean up spills, dispose of materials contaminated by spills, and train personnel responsible for spill prevention and control.

Will equipment and vehicle fueling or maintenance be conducted at the site?

☑ Yes ☐ No

The contractor's lay down yards, fueling and maintenance areas must be delineated on the contractor's SWPPP site map. Spill kits appropriate to respond to the hazards on site will be required. Inspections will include the contractor's fueling, maintenance, and laydown areas. Equipment will be maintained to prevent oils and grease from discharging with storm water. Prior to use each day, equipment operators are required to do a visual inspection for leaks, drips, and excess grease. If leaks cannot be repaired and stopped, the equipment will be placed out of service over drip pans and/or pads to collect any fluids or grease and prevent pollution discharge. Topping off fluids will not be allowed in lieu of maintenance. Equipment operators will look for excess grease accumulations, especially when the weather warms up, removing and properly disposing of excess grease to prevent discharge.

BMP Description: *Vehicle/Equipment Storage, Maintenance, and Fueling - BMP 42.00*	
BMP Manual/Publication: *Alaska DOT&PF SWPPP Guide, 2021*	
Installation Schedule:	Prior to and during construction, implement practices where on-site storage, maintenance, and fueling takes place.
Maintenance and Inspection:	Inspection: Check for leaks and dips from vehicles and equipment for excess buildup of oil and grease, check perimeter BMPs according to their specified inspection guidelines. Protect materials from exposure to storm water. Maintenance: Place drip pans under leaking equipment and repair leaks as soon as possible, re-stock spill kits, clean up leaks, spills, or contaminated surfaces immediately. Maintain equipment and vehicles properly to prevent leaks and drips.
Responsible Staff:	SWPPP Manager & Superintendent, Contractor

HMCP or SPCC: For the specific sections in the Good Housekeeping BMPs that deal with fueling and oiling, equipment care and maintenance, waste materials, etc., it should be mentioned, by referencing the specific page and section, this requirement for BMP reference and citation is met. Also, it will/can create less conflict within the SWPPP due to the HMCP being project specific and the BMP citations more generic.

10.15.3 Staging and Material Storage Areas (4.8.3)

Designate areas to be used for staging and material storage areas. Locate such activities, to the extent practicable, away from storm water conveyance channels, storm water inlets, and waters of the U.S.; and minimize the exposure to precipitation and storm water and vandalism for all chemicals, treatment chemicals, liquid products, petroleum products, and other materials that have the potential to pose a threat to human health or the environment.

10.15.4 Washout of Applicators/Containers Used for Paint, Concrete, and Other Materials (4.8.4)

Describe location(s) and controls to minimize the potential for storm water pollution from washout areas for concrete mixers, paint, stucco, etc.

Will washout areas for trucks, applicators, or containers of concrete, paint, or other materials be used at the site? ☑ Yes ☐ No

If YES, describe control measures to be implemented to comply with CGP Part 4.8.4. If NO, delete the following paragraph.

The contractor will provide a designated concrete washout area. The washout area may be moved during the construction process but the location must be kept current on the site map. Concrete wash water may not be discharged with storm water. The washout must have sufficient capacity for the scheduled activities.

BMP Description: Concrete Washout - BMP 06.00	
BMP Manual/Publication: *Alaska DOT&PF SWPPP Guide, 2021*	
Installation Schedule:	Prior to cleaning out a concrete truck onsite
Maintenance and Inspection:	Inspection: Check current filled capacity, check that plastic lining is intact and sidewalls are not damaged, check if regularly used Maintenance: If filled to 75 percent capacity materials need to be removed, if plastic lining is damaged needs to be replaced,
Responsible Staff:	SWPPP Manager & Superintendent, Contractor

10.15.5 Fertilizer or Pesticide Use (4.8.5)

Describe fertilizers and/or pesticides expected to be used and/or stored on-site and procedures for storage of materials to minimize exposure of the materials to storm water.

Will fertilizers or pesticides be used at the site? ☑ Yes ☐ No

If YES, describe control measures to be implemented to comply with CGP Part 4.8.5.

Per Section 618 of the project Specifications, a 20-20-10 fertilizer is to be applied with seed and stabilizing material in one application using the hydraulic method. Application rate for the fertilizer should be a minimum of 12 lbs per square feet.

Contractors will obtain authorization to spray pesticides through DOT&PF M&O utilizing the DOT&PF Integrated Vegetation Management Plan (IVMP). A permit from DEC is only required (in addition to IVMP authorization obtained via working through the regional M&O environmental analysts and a TCP from ROW) if the contractor is applying pesticide to a water body/aquatic site. Also, if spraying within the MOA, a local permit must be obtained from the MOA as well. For more information and contacts, visit http://dot.alaska.gov/stwdmno/ivmp/index.shtml.

10.16 Spill Notification (4.9)

The contractor shall describe spill-notification procedures, including relevant federal, state, tribal, and local agency contact information, to be implemented in the event of a leak, spill, or release of hazardous substances or oil that occur at the construction site. Refer to CGP Part 4.9 for permit requirements.

Contractor shall use DOT&PF Hazardous Material Control Plan template at http://www.dot.state.ak.us/stwddes/dcsconst/assets/docs/constforms/hmcp_template.doc to create project specific plan. Include final plan as approved by DOT&PF in Appendix O.

10.17 Construction and Waste Materials (4.8.6, 5.3.7)

Describe in general terms the type of construction and waste materials expected to be stored at the site, with updates as appropriate, and describe the measures for handling and disposal of all wastes generated at the site, including clearing and demolition debris or other waste soils removed from the site, construction and domestic waste, hazardous or toxic waste, and sanitary waste. Refer also to CGP Parts 4.8.3 Staging and Material Storage Areas, and 4.8.6 Storage, Handling, and Disposal of Construction Waste.

Building materials and other construction site wastes must be properly managed and disposed of to reduce the risk of pollution from materials such as surplus or refuse building materials or hazardous wastes. Practices such as trash disposal, recycling, proper material handling, and spill prevention and cleanup measures can reduce the potential for storm water runoff to mobilize construction site wastes and contaminate surface or groundwater.

The contractor must establish proper building and material storage areas to avoid pollutants coming in contact with rainfall or flowing storm water. Any materials that have the potential to pollute storm water will be covered to prevent rainfall from coming into contact with them. Garbage containers will be covered to prevent debris from blowing away as well. Any contractor supplied staging area must be included in inspections and the SWPPP. No materials will be staged or stored, even temporarily in flowing water.

The contractor should designate a waste collection area on site that does not receive substantial amount of runoff from upland areas and does not drain directly to a water body.

BMP Description: *General Construction Site Waste Management*	
BMP Manual/Publication: *DEC Alaska Storm Water Guide, December 2011*	
Installation Schedule:	Continuously during construction activities
Maintenance and Inspection:	Inspection: Inspect storage and use areas and identify containers or equipment that could malfunction and cause leaks or spills. Check equipment and containers for leaks, corrosion, support or foundation failure, or other signs of deterioration, and test them for soundness. Maintenance: Immediately repair or replace any that are found to be defective.
Responsible Staff:	SWPPP Manager & Superintendent, Contractor

11.0 INSPECTIONS (5.4; 6.0)

Minimum requirements for the locations and scope of site inspections are described in the CGP Part 6.4.

Inspection requirements for linear projects are described in the CGP Part 6.5.

Describe the frequency inspections will occur at your site, including any correlations to storm frequency and intensity.

Note that inspection details for particular BMPs should be included in Section 11 or Appendix B.

11.1 Inspection Schedules (5.4.1.2; 6.1; 6.2; 6.6)

Refer to CGP Part 6.1 for inspection frequency requirements.

Required inspection frequency is based on mean annual precipitation for the site. Refer to Section 3.2 for annual precipitation data and can be found in the project specifications.

A permittee must allow an authorized representative of DEC, EPA or the MS4 operator to conduct a site inspection in accordance with the CGP Part 6.6.

Inspection Frequency:

The inspection frequency in Central Region will now be once every seven calendar days.

Inspection frequency: **Once every seven calendar days**

Justification for reduction in inspection frequency, if applicable: N/A

As defined by the CGP, winter shutdown means the cessation of soil disturbing or soil stabilizing construction activity for winter. Typically this period is from October/November to April/May and is approximately from Fall Freeze-up to Spring Thaw.

CGP Definition of Fall Freeze-up: For the purposes of this permit, means for planning purposes in the development of the SWPPP and initial planning of control measure maintenance the date in the fall that air temperatures will be predominately below freezing. It is the date in the fall that has an 80% probability that a minimum temperature below a threshold of 32.5 degrees Fahrenheit will occur on or after the given date.

CGP Definition of Spring Thaw: For the purposes of this permit, means for planning purposes in the development of the SWPPP and initial planning of control measure maintenance the date in the spring that air temperatures will be predominately above freezing. It is the date in the spring that has a 20% probability that a minimum temperature below a threshold of 32.5 degrees Fahrenheit will occur on or after the given date.

These dates can be found by looking up the “Fall ‘Freeze’ Probabilities” & “Spring ‘Thaw’ Probability” for the weather station closest to the site on the website: www.wrcc.dri.edu/summary/Climsmak.html. NOTE: this estimation of “Fall Freeze-up” & “Spring ‘Thaw’” is for planning purposes only. During construction, the permittee will need to maintain control measures based on actual conditions.

Estimated date of winter shutdown: Based on fall “Freeze” Probabilities, winter shutdown may occur on or after **August 31** (Appendix D).

Estimated date of Spring Breakup: Based on spring “Freeze” Probabilities, spring breakup may occur around **June 25** (Appendix D). Weekly inspections must resume at least 21 days prior to this date, or earlier if conditions warrant inspection, or if construction activities resume at the site.

The inspections will be conducted jointly with department personnel as directed by the Project Engineer. The schedule for site inspections will be established and updated daily as necessary to meet the requirements of the CGP and provide the department with notice and opportunity to participate in the site inspection.

11.2 Inspection Form or Checklist (5.4.1.3; 6.7)

Contractor is required to attach Form 25D-100 in Appendix K. An Inspection Report will be completed after each inspection, identifying BMPs installed at the time of inspection, noting corrective actions required, and documenting complete-by-date for any actions discovered during the inspection. Each report will be certified by the Contractor's Superintendent and DOT&PF's Project Engineer.

11.3 Corrective Action Procedures (5.4.1.4; 8.0)

Identify how conditions found that require corrective action will be addressed:

The following guidelines apply for setting corrective action complete-by dates as required by the CGP:

For conditions that are easily remedied (i.e., removal of tracked sediment, maintenance of control measures, or spill clean-up), the permittee must initiate appropriate steps to correct the problem within twenty-four hours from the time of discovery and correct the problem as soon as possible; or

If installation of a new control measure is needed or an existing control measure requires significant redesign and reconstruction or replacement, the permittee must install the new or modified measure and make it operational within seven calendar days from the time of discovery of the need for the corrective action, unless infeasible.

If a discharge occurs during a local 2-year, 24-hour storm event, a corrective action must be initiated the day after the storm event ends as described in CGP Part 8.1.1.

For corrective actions that could affect a subcontractor, notify the subcontractor within three calendar days of taking the corrective action.

Additionally, deadlines for completion of corrective actions shall be selected to protect water quality and prior to the next storm event unless impracticable.

Corrective Action Log

The corrective action log will document the following within 24 hours of discovery of any conditions listed in CGP Part 8.1 (use Form 25D-112 and include in Appendix J):

- Date the problem was identified
- Summary of corrective action taken or to be taken
- Notice of whether SWPPP modifications were required as a result of this discovery or corrective action
- Date corrective action completed and name of person completing the action

In the event there is a reason (outside of the project staff's control) that a corrective action cannot practicably be completed by the set complete-by date, DOT&PF will complete a Delayed Action Item Report (Form 25D-113). This form will set a new complete-by date and document the reason that the previous date could not be met.

11.4 Inspection Recordkeeping (5.4.2)

Records (including inspection reports, corrective action logs, delayed action item reports, grading and stabilization logs, amendment logs, staff tracking logs, rainfall logs, and training logs) will be maintained for a minimum period of at least three (3) years after the permit is terminated. A hard copy and electronic copy

of the final SWPPP, including all appendices, will be transmitted to DOT&PF when the project's NOTs are filed.

12.0 MONITORING PLAN (IF APPLICABLE) (5.5; 7.0)

12.1 Determination of Need for Monitoring Plan

Is there an EPA-established or approved TMDL for **Moose Creek, Upper Trail Lake, Lower Trail Lake**?

☐ Yes ☑ No

Is the receiving water listed as impaired for turbidity and/or sediment? ☐ Yes ☑ No

13.0 POST-AUTHORIZATION RECORDS (5.8)

Copy of Permit Requirements (5.8.1)

The contractor's SWPPP must contain the following documents:

- copy of CGP (5.8.1.1)
- copy of the signed and certified NOI form submitted to DEC (5.8.1.2)
- upon receipt, a copy of letter from DEC authorizing permit coverage, providing tracking number (5.8.1.3)

These documents must be included in Appendix F.

13.1 Additional Documentation Requirements (5.8.2)

The Grading and Stabilization Log, Form 25D-110 in Appendix G, will be filled out to satisfy the following CGP requirements:

- Dates when grading activities occur (5.8.2.1.1)
- Description of grading activities and location (5.8.2.1.2)
- Dates when construction activities temporarily or permanently cease on a portion of the site (5.9.2)
- Dates when stabilization measures are initiated (5.8.2.1.4)
- Description of Stabilization Measure (5.8.2.1.5)
- Date of beginning and ending period for winter shutdown (5.8.2.2)

Other documents will be included as shown below:

- Copies of inspection reports (5.4.2; 5.8.2.3; insert in Appendix K).
- Copies of monitoring reports, if applicable (7.3.9.2; 5.8.2.4; 5.8.2.5; 5.5.2; 9.1; insert in Appendix H).
- Documentation in support of chemical-treatment processes (4.6; 5.8.2.7; insert in Appendix P).
- Documentation of maintenance and repairs of control measures (5.8.2.9; 8.1; 8.2; insert in Appendix J).
- Copy of DEC Letter of Non-Objection (insert in Appendix D).

13.1.1 Records of Employee Training (4.14; 5.8.2.8)

Training staff and subcontractors is an effective BMP. Document all training conducted for your staff, those with specific storm water responsibilities (e.g. installing, inspecting, and maintaining BMPs), and subcontractors. Use the Training Log (Form 25D-125) in Appendix I.

Describe Training Conducted: **Contractor or DOT&PF will determine training details.**

General storm water and BMP awareness training for staff and subcontractors:

During safety meetings and schedule briefings, corrective actions from the previous period will be reviewed. The contractor is encouraged to discuss timing of activities and stabilization requirements. Records of the training topics, attendees, and length must be maintained in the contractor's SWPPP.

Detailed training for staff and subcontractors with specific storm water responsibilities:

Contractor or DOT&PF will determine training details.

Individual(s) Responsible for Training:

Contractor or DOT&PF will determine training details.

Documentation of training conducted shall be record on Form 25D-125 and included in Appendix I.

14.0 MAINTAINING AN UPDATED SWPPP (5.9)

This section does not need to be filled out but is a list of reminders for the applicant.

The permittee must modify the SWPPP, including site map(s), in response to any of the following:

- Whenever changes are made to construction plans, control measures, good housekeeping measures, monitoring plan (if applicable), or other activities at the site that are no longer accurately reflected in SWPPP (5.9.1.1);
- If inspections of site investigations by staff or by local, state, tribal, or federal officials determine SWPPP modifications are necessary for permit compliance (5.9.1.2); and
- To reflect any revisions to applicable federal, state, tribal, or local laws that affect control measures implemented at the construction site (5.9.1.3).

14.1 SWPPP Amendment Log (5.9.2)

A permittee must keep a log showing dates, name of person authorizing the change, and a brief summary of changes for all significant SWPPP modifications (e.g., adding new control measures, changes in project design, or significant storm events that cause replacement of control measures). Use DOT&PF construction form 25D-114.

Amendments must be approved by an AK-CESCL or equivalently certified individual and be included in Appendix M. The Superintendent and the SWPPP Manager are the only persons authorized to amend the SWPPP and update the SWPPP Amendment Log. Amendments must be approved by the Project Engineer. This approval must be documented in the "PE's Initials column" by the Project Engineer.

14.2 Deadlines for SWPPP Modifications (5.9.3)

Revisions to the SWPPP must be completed within seven days of the inspection that identified the need for a SWPPP modification or within seven days of substantial modifications to the construction plans or changes in site conditions.

15.0 ADDITIONAL SWPPP REQUIREMENTS (5.10)

15.1 Retention of SWPPP (5.10.1)

A copy of the SWPPP (including a copy of the permit), NOI, and acknowledgement letter from DEC must be retained at the construction site.

15.2 Main Entrance Signage (5.10.2)

A sign or other notice must be posted conspicuously near the main entrance of the site. The sign or notice must include a copy of the completed NOI for both DOT&PF and the contractor.

15.3 Availability of SWPPP (5.10.3)

The permittee must keep a current copy of the SWPPP at the site. The SWPPP must be made available to subcontractors, government and tribal agencies, and MS4 operators, upon request.

15.4 Signature and Certification (5.10.4)

As co-permittees, the SWPPP is signed, dated, and certified by both the contractor and by DOT&PF. DOT&PF requires the use of its forms, instead of those provided as examples in the DEC template. The contractor must complete the SWPPP Contractor Certification (Form 25D-111) once DOT&PF approves the SWPPP and include it in Appendix E. Either the contractor's corporate officer or their duly authorized representative can certify the SWPPP. If a duly authorized representative certifies, the Delegation of Signature Authority form must be included in Appendix E.

Upon approval, DOT&PF will provide the contractor with signed DOT&PF forms for the DOT&PF SWPPP Certification (Form 25D-109) and DOT&PF Delegation of Authority (Form 25D-107) for inclusion in Appendix E of the SWPPP.

APPENDIX A
SITE MAPS AND DRAWINGS

DESIGNED BY	HH/JP
CHECKED BY	CJE
DRAFTED BY	HH/JP
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DATE	2/24/2026
TIME	7:50 AM

DRAWING LOCATION
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STATE OF ALASKA

DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION		YEAR	SHEET NO.	TOTAL SHEETS
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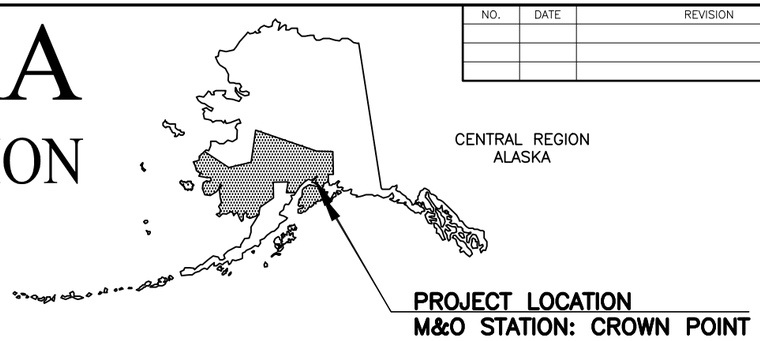
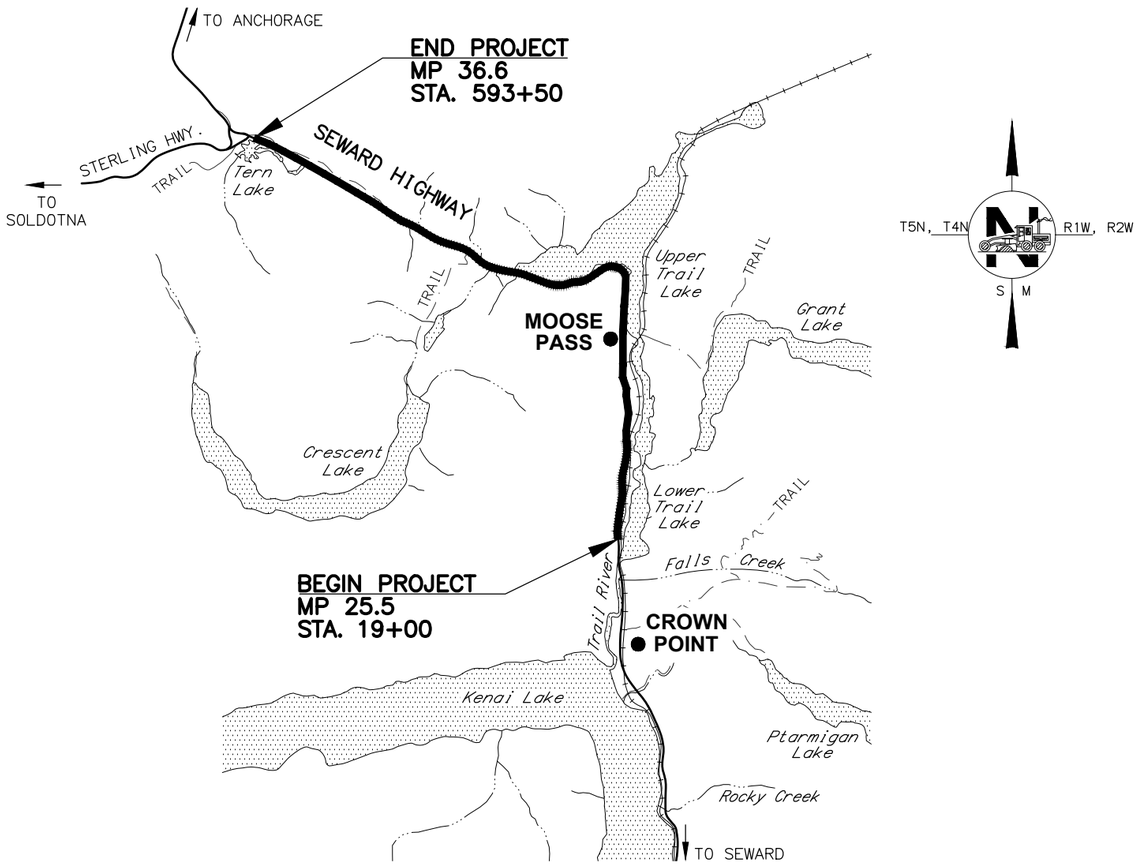


PROPOSED HIGHWAY PROJECT

SEWARD HIGHWAY: MP 25.5-36
TRAIL RIVER TO STERLING WYE REHABILITATION
PROJECT NO. 0311(031)/Z546590000

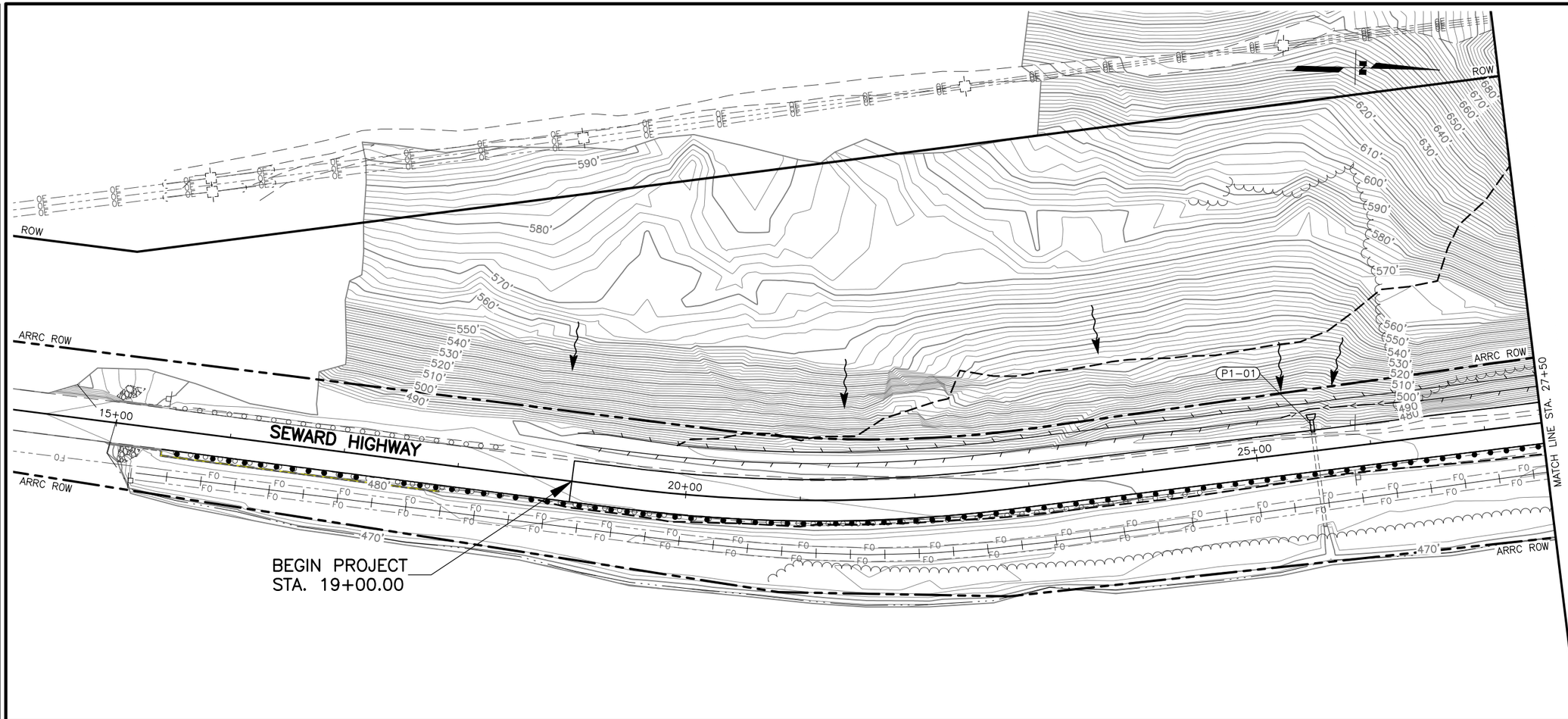
EROSION SEDIMENT CONTROL PLAN



PS&E REVIEW
MARCH 2026

GENERAL ESCP NOTES:

1. THE CONTRACTOR SHALL USE THIS EROSION AND SEDIMENT CONTROL PLAN (ESCP) TO DEVELOP A STORM WATER POLLUTION PREVENTION PLAN (SWPPP). THE PLAN SHALL COMPLY WITH THE ALASKA POLLUTANT DISCHARGE ELIMINATION SYSTEM (APDES) REQUIREMENTS FOR STORM WATER DISCHARGE FROM CONSTRUCTION SITES. NO EARTHWORK WILL BE ALLOWED ON A SPECIFIC STAGE/PHASE OF THE PROJECT UNTIL SWPPP BMPS HAVE BEEN APPROVED AND IMPLEMENTED.
2. PRIOR TO CONSTRUCTION, THE PROJECT LIMITS WILL BE STAKED AND FLAGGED TO ASSURE NATURAL VEGETATION IS MAINTAINED TO THE MAXIMUM EXTENT POSSIBLE.
3. PERIMETER CONTROLS MAY INCLUDE SILT FENCE, FIBER ROLLS, AND/OR VEGETATIVE BUFFER. CONTRACTOR TO NOTE SPECIFIC BMPS IMPLEMENTED FOR CULVERT PROTECTION AND PERIMETER CONTROL ON SWPPP.
4. ANY BMPS IMPLEMENTED ON THE PROJECT WILL UTILIZE THE SPECIFICATIONS PROVIDED IN THE ALASKA ADEC STORM WATER GUIDE (2021) OR THE DOT&PF ALASKA SWPPP GUIDE WHENEVER POSSIBLE.
5. POTENTIAL RECEIVING WATER BODIES FOR STORM WATER DISCHARGE INCLUDE THE UPPER TRAIL LAKE AND LOWER TRAIL LAKE. PROCEDURES TO PREVENT IMPACT TO WATER QUALITY WILL BE INCLUDED IN THE SWPPP AND IMPLEMENTED FOR WORK OCCURRING NEAR THESE WATER BODIES.
6. CONTRACTOR SHALL SUBMIT A PLAN FOR TEMPORARY WATER DIVERSION AND DEWATERING AT LEAST 14 DAYS BEFORE RELATED CONSTRUCTION ACTIVITIES CAN BEGIN.
7. FUEL WILL NOT BE STORED ONSITE AND BMPS WILL BE IN PLACE TO PREVENT THE RELEASE OF FUEL PRODUCT RELATED TO CONSTRUCTION EQUIPMENT OPERATIONS AND MAINTENANCE.
8. ENTRANCE/EXIT BMPS WILL BE ESTABLISHED WHERE VEHICLES WILL TRAVEL ONTO THE PAVED HIGHWAY FROM A DISTURBED AREA.
9. THE CONTRACTOR IS RESPONSIBLE FOR STAGING AND STOCKPILE AREAS, EITHER ON OR OFF DOT&PF ROW. COORDINATE WITH THE ENGINEER.
10. IMPLEMENT STORM WATER DISCHARGE FLOW CONTROL BMPS (FIBER ROLLS, CHECK DAMS) WHERE STORM WATER DISCHARGE MAY CONCENTRATE. I.E. FLOW TOWARDS CULVERT INLETS/OUTLETS.
11. THE CONTRACTOR SHALL PROVIDE INLET PROTECTION ON ALL CULVERTS WITHIN 25 FEET OF DISTURBED GROUND. INLET PROTECTION SHALL BE SEQUENCED TO PROTECT EXISTING INLETS AS PROJECT PHASING OCCUR.
12. THE DISTURBED AREA FOR THIS ESCP INCLUDES THE LOCATIONS WHERE ARRC WORK IS PROPOSED. HOWEVER THE ARRC CONTRACTOR WILL BE RESPONSIBLE FOR INSTALLING ASSOCIATED BMPS WHEN THIS WORK IS PERFORMED.
13. THE CONTRACTOR SHALL USE WATER TO CONTROL DUST.
14. THE CONTRACTOR SHALL MINIMIZE THE AREA AND TIME PERIOD ERODIBLE SOILS ARE EXPOSED TO STORM WATER. DISTURBED AREAS SHALL BE STABILIZED AS SOON AS PRACTICABLE AFTER DISTURBANCE AND IN ACCORDANCE WITH ALASKA CONSTRUCTION GENERAL PERMIT (ACGP) REQUIREMENTS.
15. PLACE 4" OF TOPSOIL AND SEED ANY AREAS DISTURBED BY CONSTRUCTION AND AS DIRECTED BY THE ENGINEER. IN ROCK CUT SECTIONS, TOPSOIL AND SEED ARE UNNECESSARY FOR ROCK DITCH BOTTOMS. IN LOCATIONS WITH 2:1 SLOPES, USE MULCH-HECP BFW IN CONJUNCTION WITH TOPSOIL AND SEED.



ESCP LEGEND

- C — C — CLEARING
- CG — CLEARING & GRUBBING
- CP — CLEARING & PERIMETER
- FR — FIBER ROLLS
- SC — SEDIMENT CONTROL BMP
- SILT FENCE
- P — P — PERIMETER
- VB — VEGETATIVE BUFFER BMP
- WBP — WATER BODY PROTECTION BMP
- WATER BOUNDARIES
- CUT LIMITS
- FILL LIMITS
- ROW — RIGHT-OF-WAY
- DRINKING WATER PROTECTION AREA
- DRINKING WATER PROTECTION AREAS
- ENERGY DISSIPATOR, ROCK-LINED SWALE OR ROCK-LINED DITCH
- WETLANDS
- SOIL STABILIZATION
- PRESERVED VEGETATION
- MANUFACTURED INLET PROTECTION SYSTEM
- DRAINAGE PATHWAY
- (DP) NON-STORM SEWER SYSTEM DRAINAGE DISCHARGE POINT
- TEMPORARY CHECK DAM
- TEMPORARY CULVERT INLET SEDIMENT TRAP
- VEHICLE TRACKING ENTRANCE/EXIT
- FR — 8" FIBER ROLLS

SHEET NO.	TOTAL SHEETS
2	30
STATE	YEAR
ALASKA	2027

PROJECT DESIGNATION

0311(031)/
Z546590000

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
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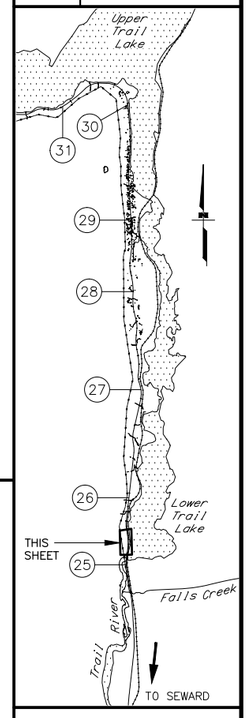

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HWY MP 25.5
TO 36 TRAIL RIVER TO
STERLING WYE REHAB

EROSION AND SEDIMENT CONTROL PLAN

DESIGNED BY HH/JP
CHECKED BY C.E.
DRAFTED BY HH/JP

SCALE 1" = 50'

DATE TIME
2/25/2026 9:00 AM

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DESIGNED BY HH/JP
CHECKED BY CJE
DRAFTED BY HH/JP

SCALE 1" = 50'

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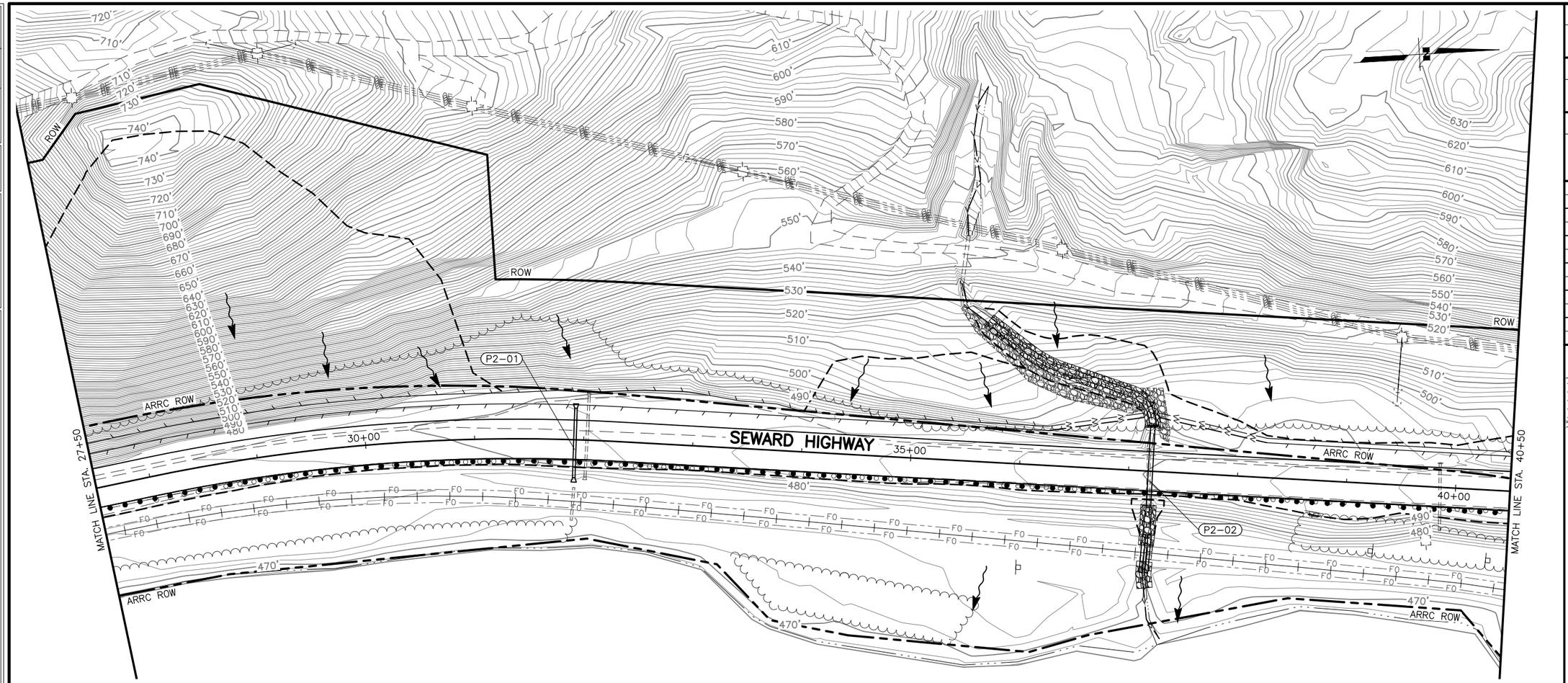

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PROJECT DESIGNATION

0311(031)/
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NO.	REVISION
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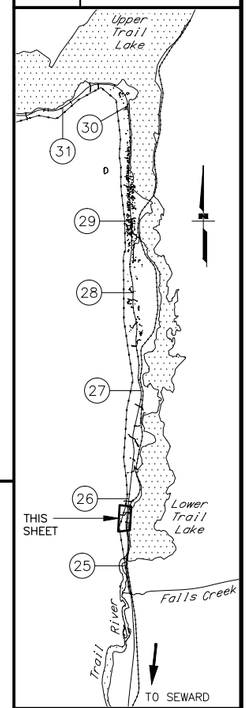

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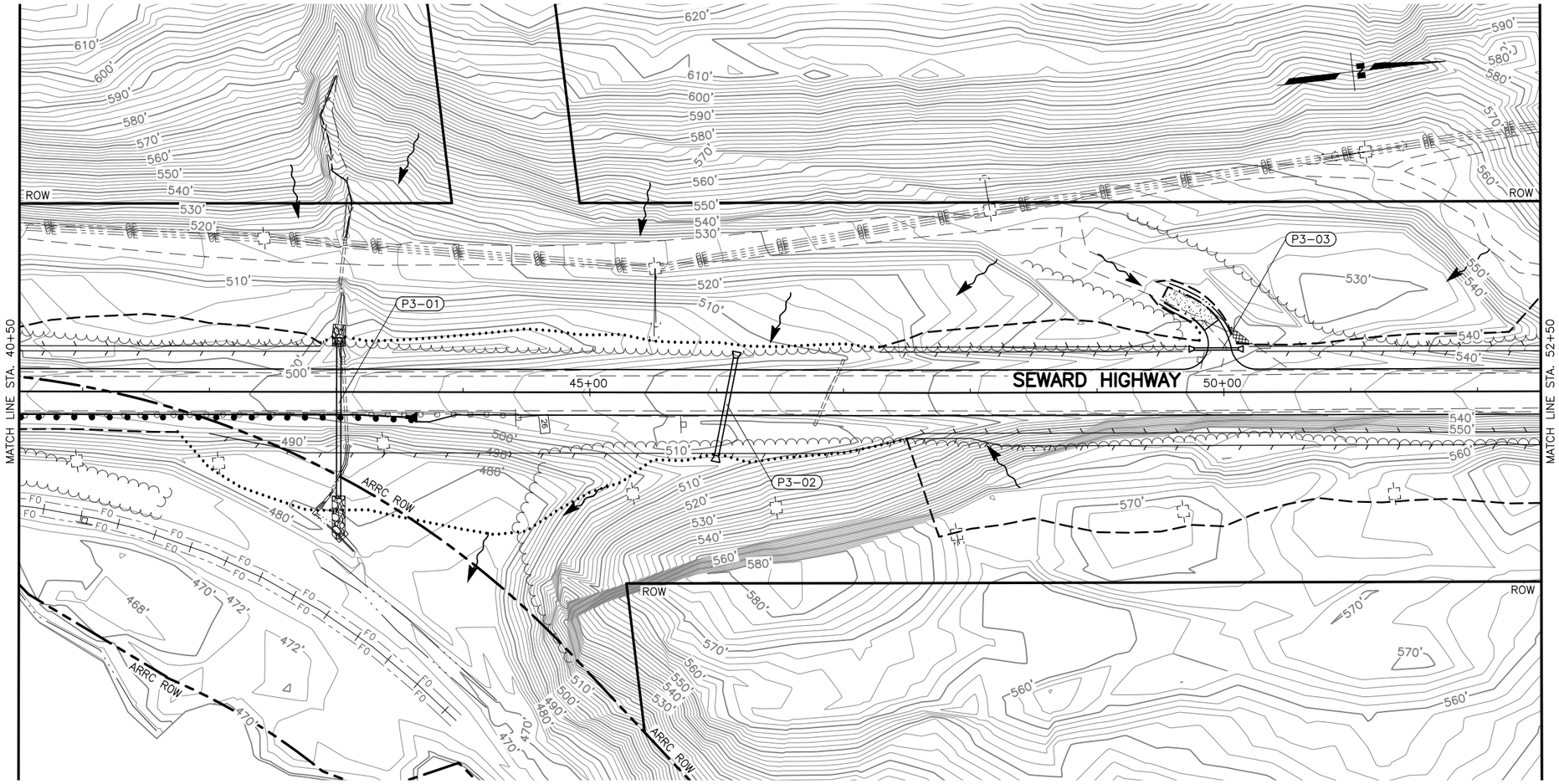

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STATE	YEAR
ALASKA	2027

PROJECT DESIGNATION
0311(031)/
Z546590000

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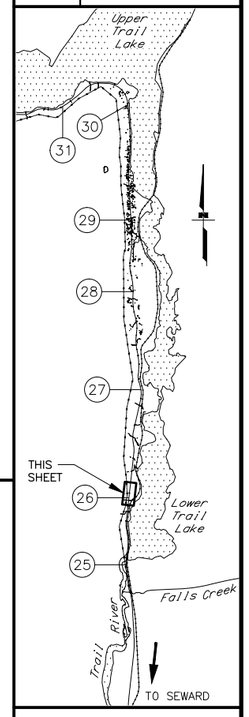

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
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SEWARD HWY MP 25.5
TO 36 TRAIL RIVER TO
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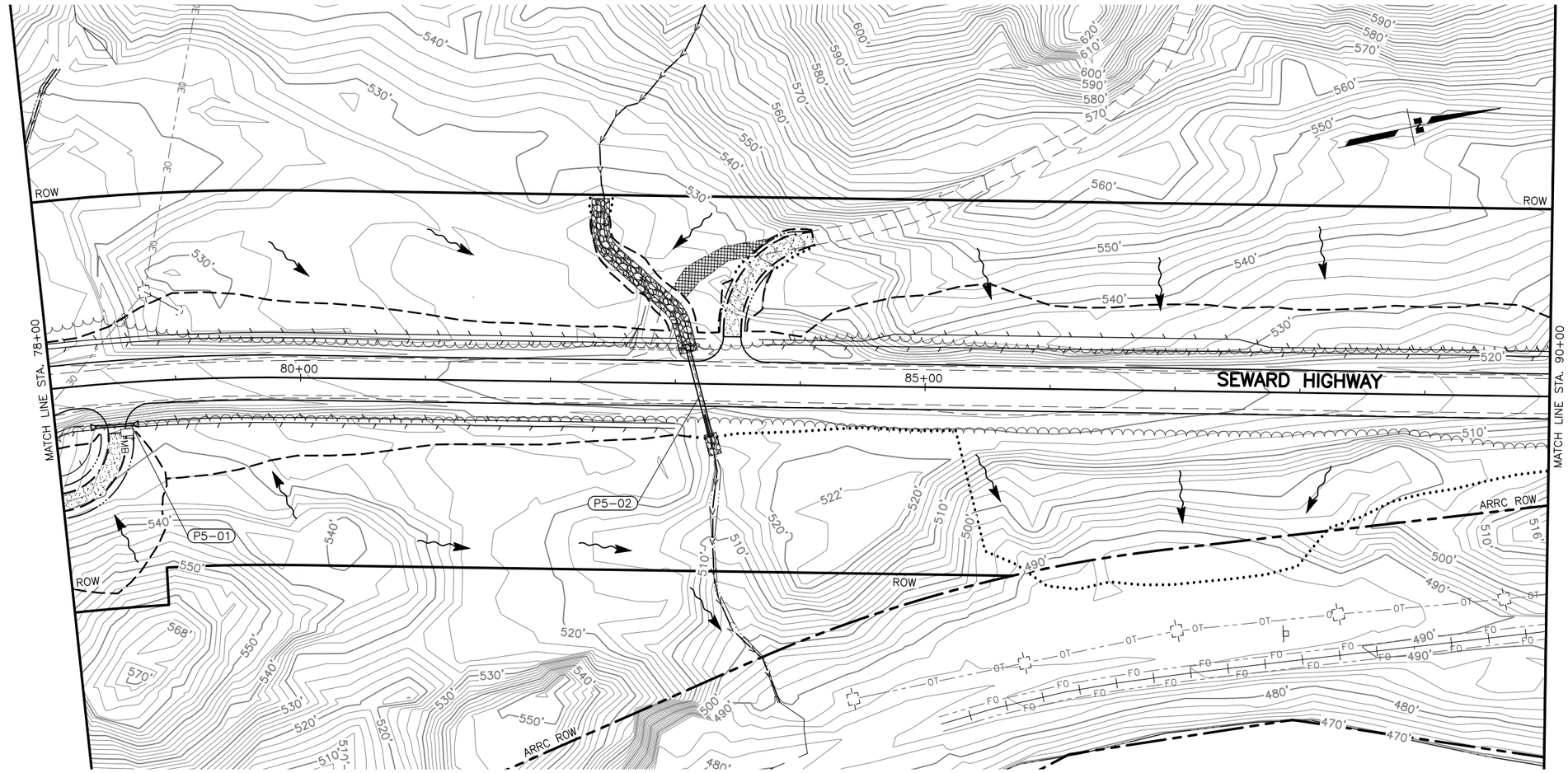

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PROJECT DESIGNATION

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NO.	REVISION
DATE	
NO.	REVISION
DATE	

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
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SEWARD HWY MP 25.5
TO 36 TRAIL RIVER TO
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SHEET NO.	TOTAL SHEETS
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STATE	YEAR
ALASKA	2027

PROJECT DESIGNATION
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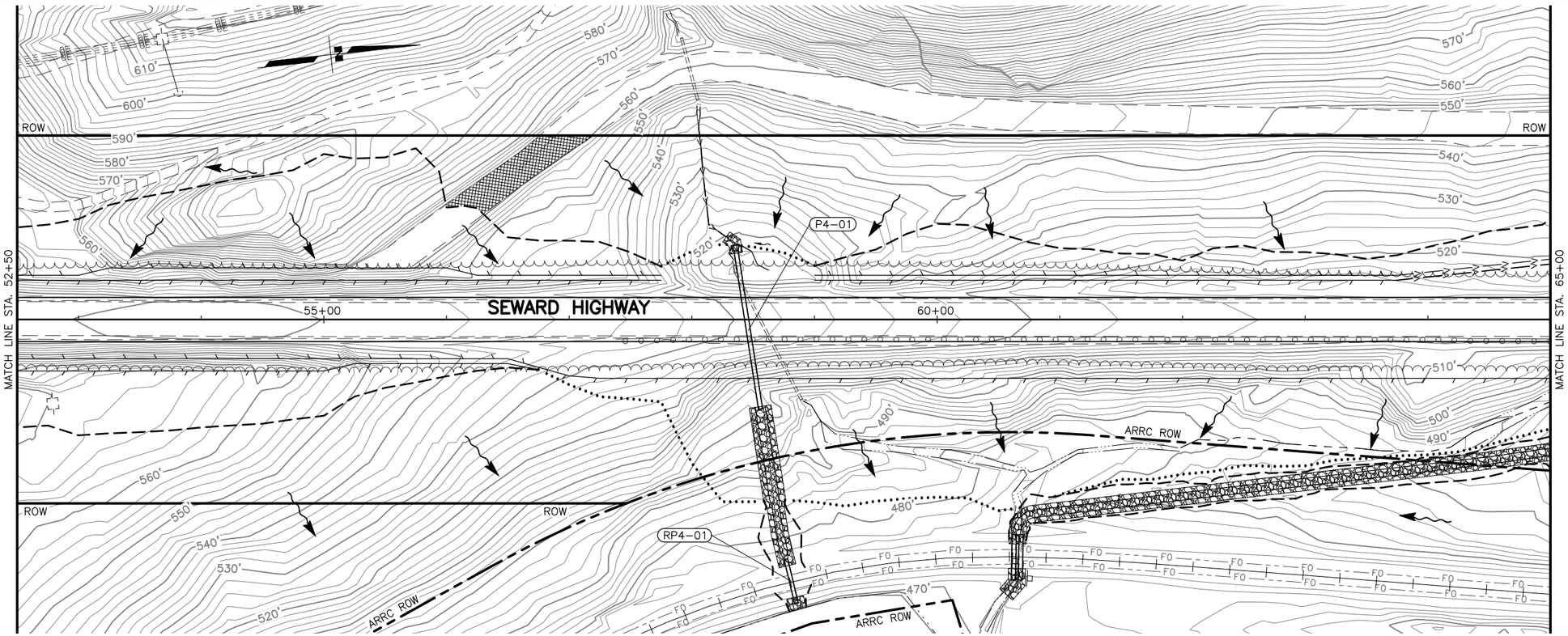

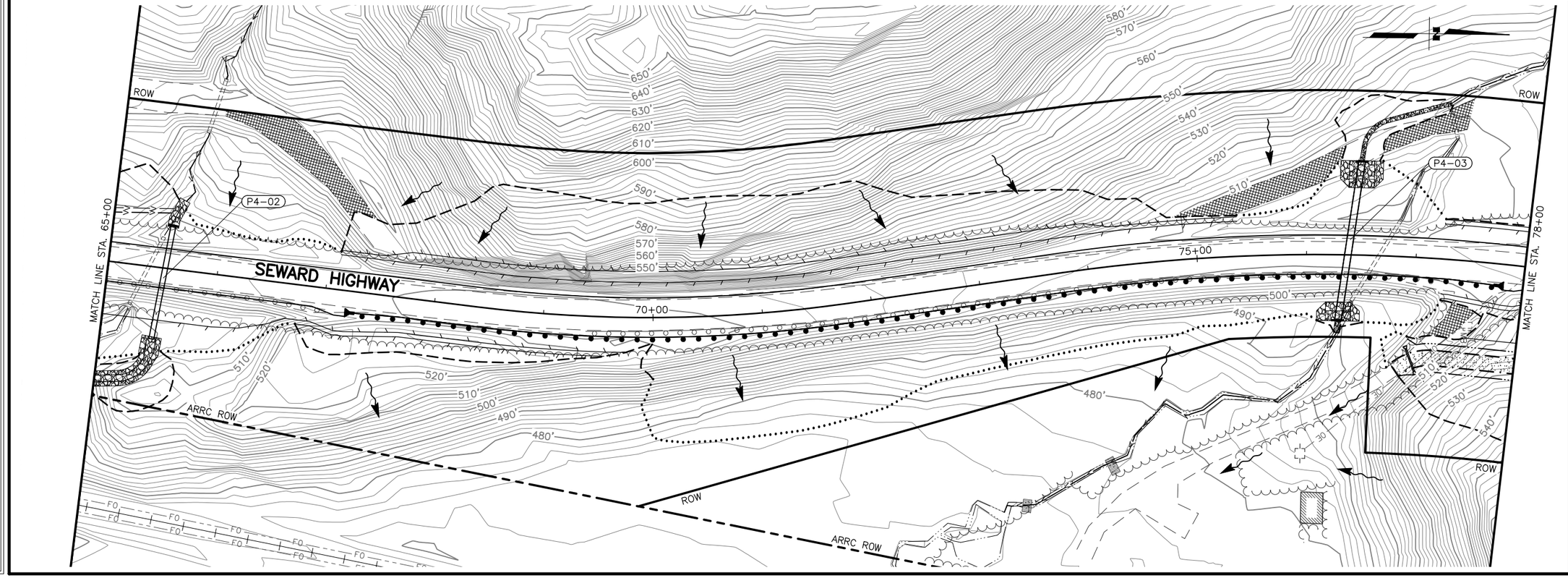

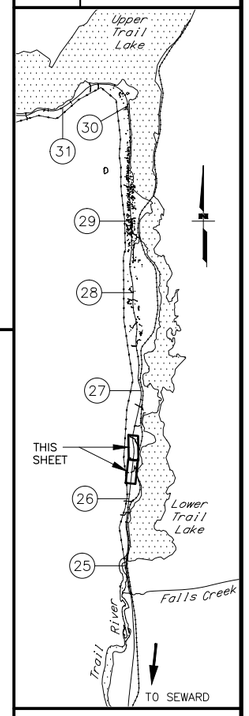

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

SEWARD HWY MP 25.5 TO 36 TRAIL RIVER TO STERLING WYE REHAB

EROSION AND SEDIMENT CONTROL PLAN

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CHECKED BY CJE
DRAFTED BY HH/JP

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DATE 2/25/2026 TIME 9:00 AM

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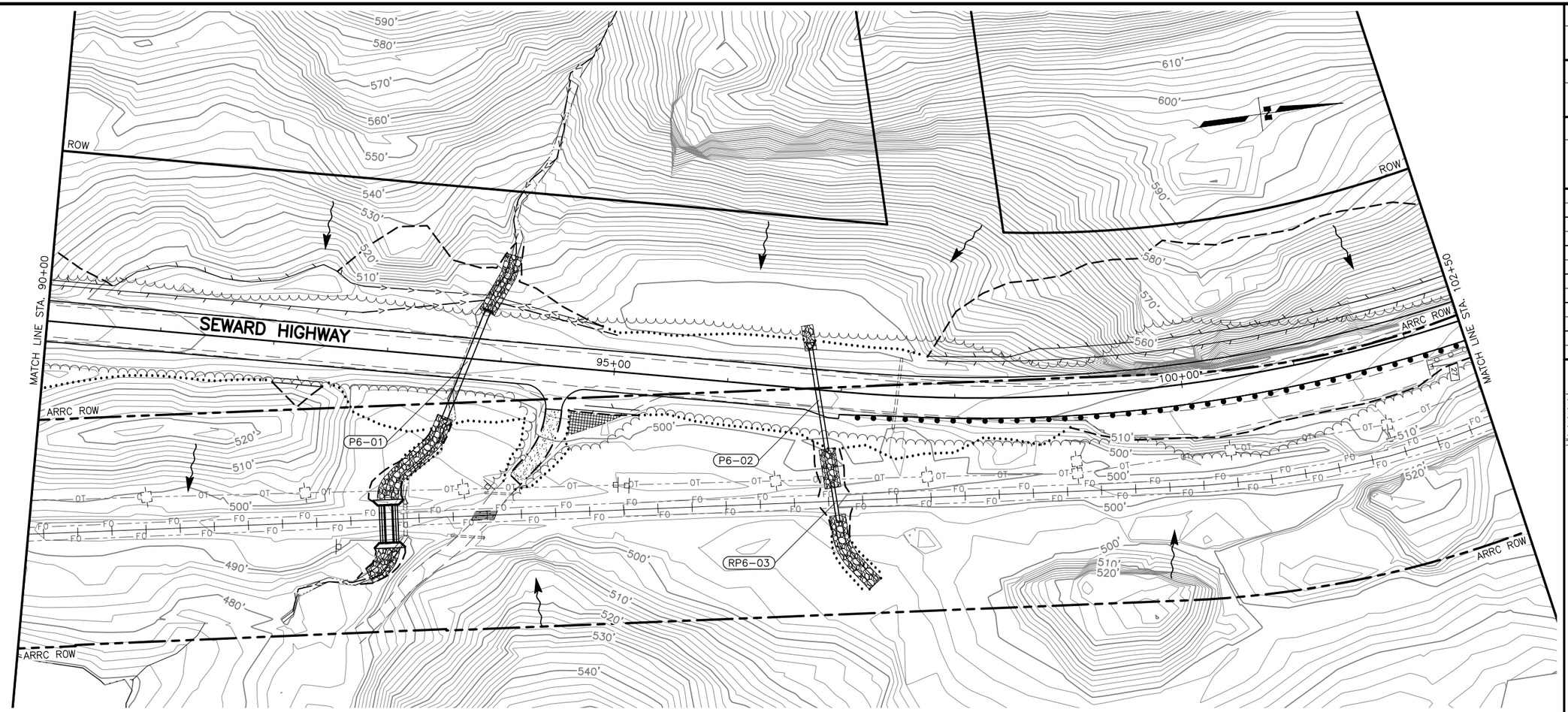

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ALASKA	2027

PROJECT DESIGNATION
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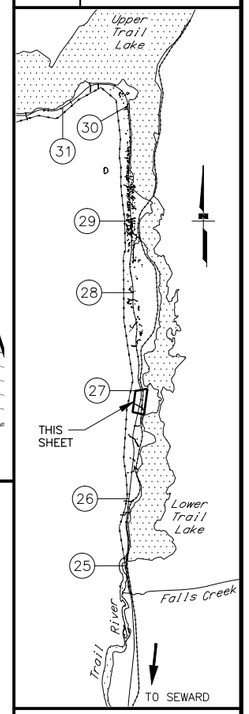
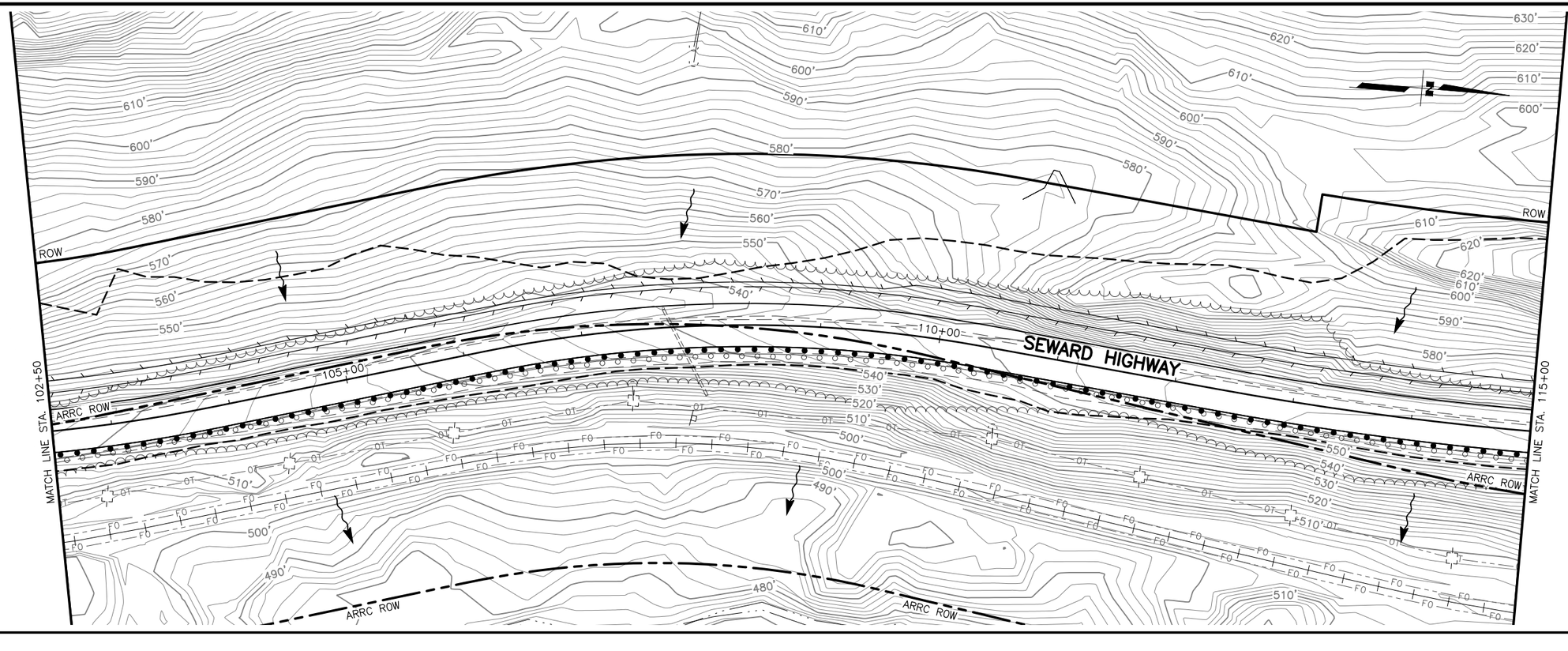


STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HWY MP 25.5
TO 36 TRAIL RIVER TO
STERLING WYE REHAB

EROSION AND SEDIMENT CONTROL PLAN



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STATE	YEAR
ALASKA	2027

PROJECT DESIGNATION

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NO.	REVISION
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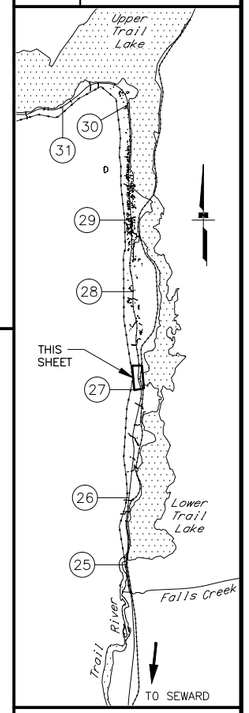

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HWY MP 25.5
TO 36 TRAIL RIVER TO
STERLING WYE REHAB

EROSION AND SEDIMENT CONTROL PLAN

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CHECKED BY	CJE
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TIME	9:01 AM

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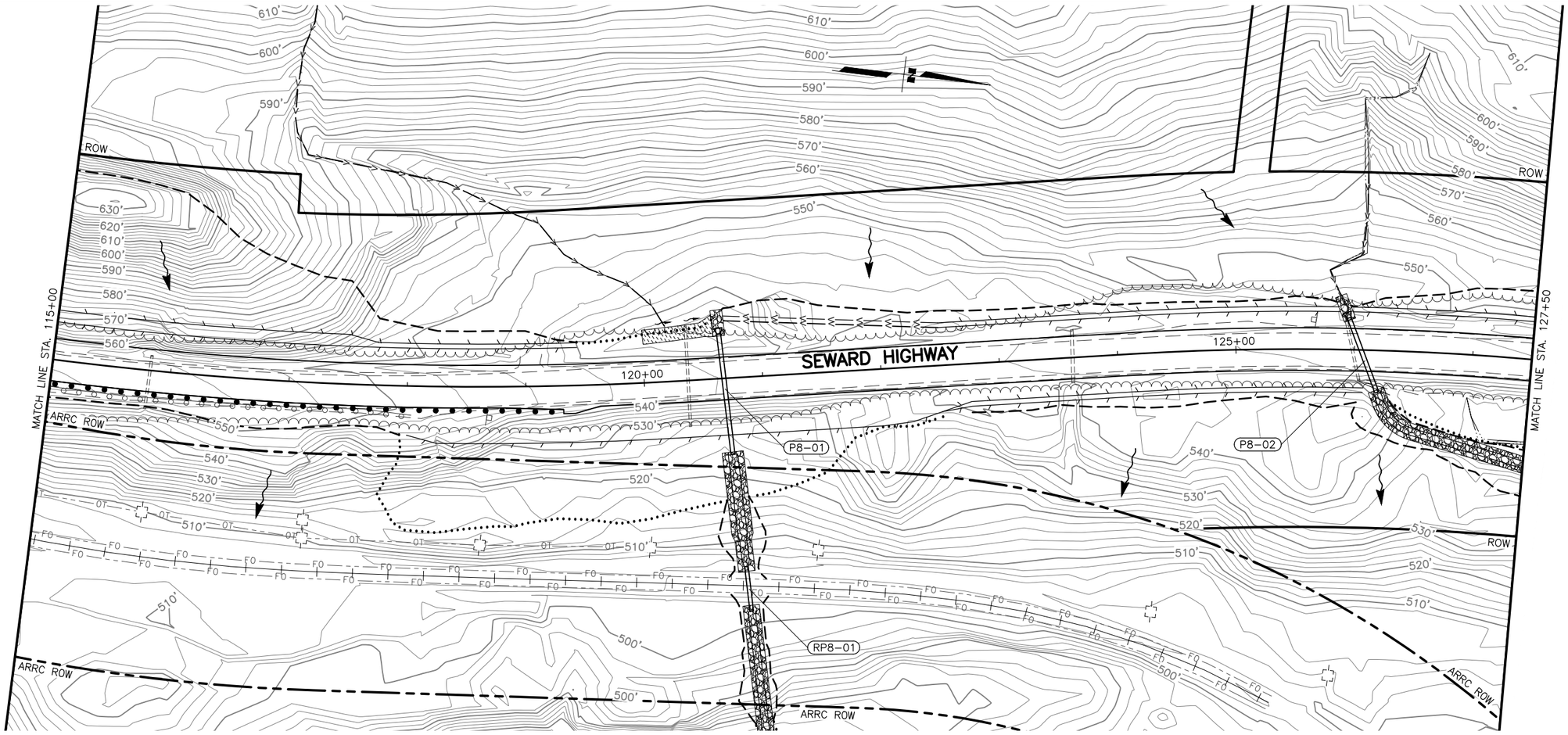

SHEET NO.	TOTAL SHEETS
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STATE	YEAR
ALASKA	2027

PROJECT DESIGNATION

0311(031)/
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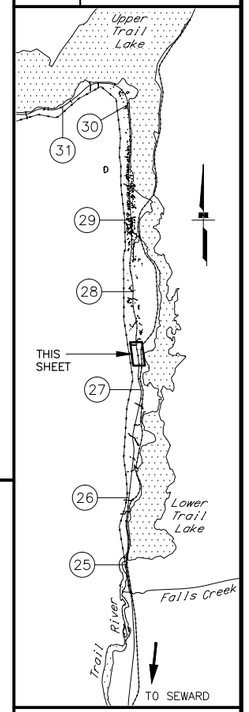

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
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SEWARD HWY MP 25.5
TO 36 TRAIL RIVER TO
STERLING WYE REHAB

EROSION AND SEDIMENT CONTROL PLAN

DESIGNED BY	HH/JP
CHECKED BY	CJE
DRAFTED BY	HH/JP

SCALE
1" = 50'

DATE	TIME
2/25/2026	9:01 AM

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SHEET NO.	TOTAL SHEETS
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STATE	YEAR
ALASKA	2027

PROJECT DESIGNATION
0311(031)/
Z546590000

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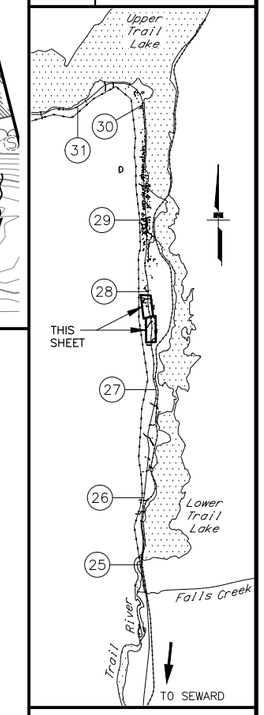
NO.	REVISION
DATE	



STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
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SEWARD HWY MP 25.5
TO 36 TRAIL RIVER TO
STERLING WYE REHAB

EROSION AND SEDIMENT CONTROL PLAN

DESIGNED BY	HH/JP
CHECKED BY	CLE
DRAFTED BY	HH/JP

SCALE
1" = 50'

DATE	TIME
2/25/2026	9:01 AM

DRAWING LOCATION
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SHEET NO.	TOTAL SHEETS
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STATE	YEAR
ALASKA	2027

PROJECT DESIGNATION
0311(031)/
Z546590000

NO.	REVISION
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NO.	REVISION
DATE	
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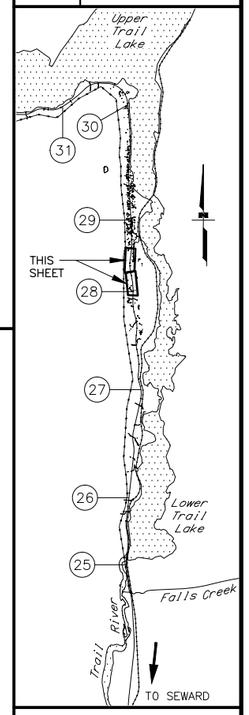
DATE	



STATE OF ALASKA
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SEWARD HWY MP 25.5
TO 36 TRAIL RIVER TO
STERLING WYE REHAB

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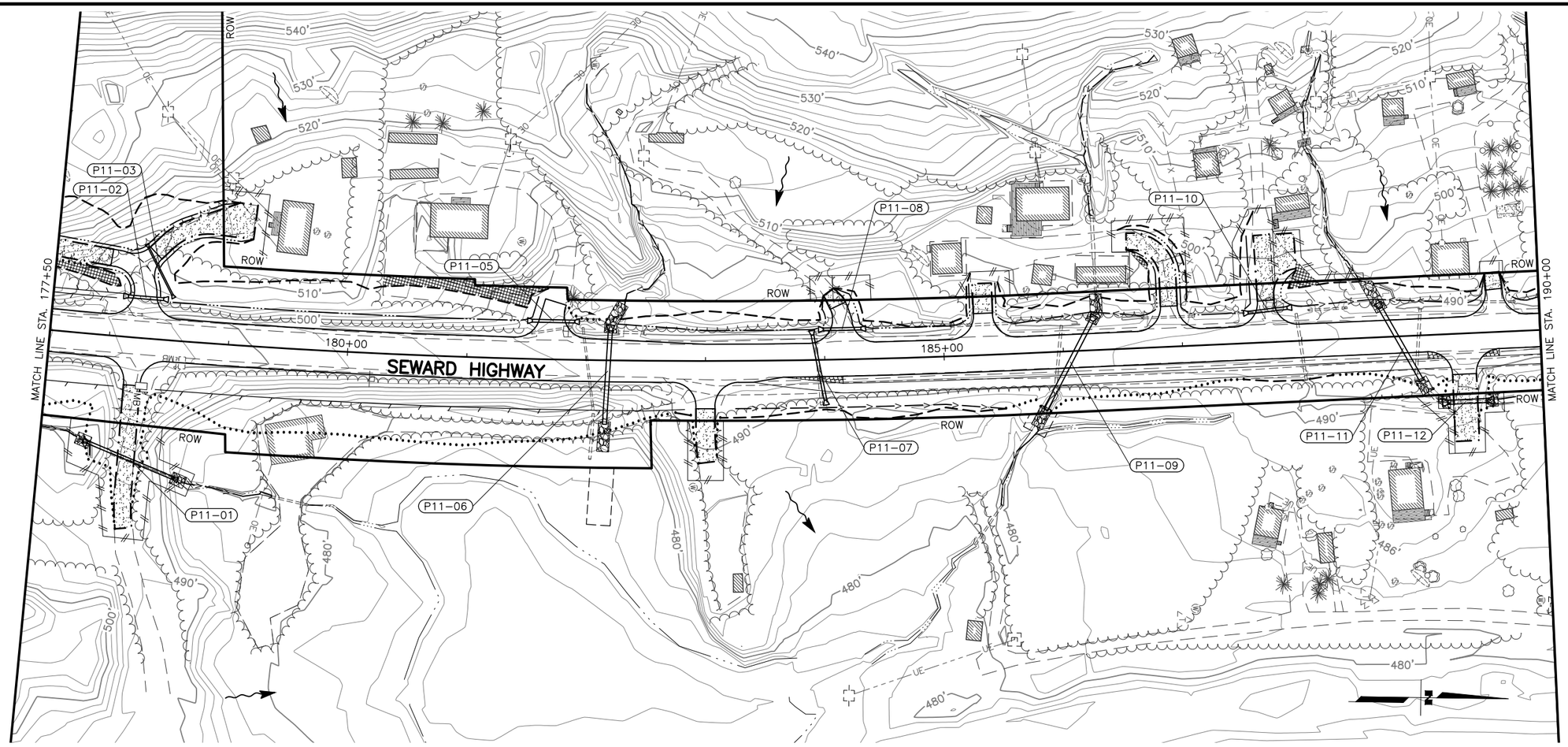

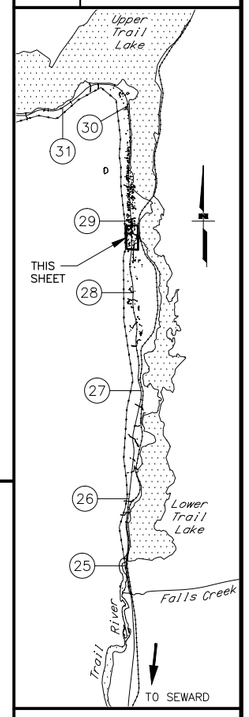

SHEET NO.	TOTAL SHEETS
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STATE	YEAR
ALASKA	2027

PROJECT DESIGNATION

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Z546590000

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	

STATE OF ALASKA
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2/25/2026 9:01 AM

DRAWING LOCATION
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DESIGNED BY	HH/JP
CHECKED BY	CJE
DRAFTED BY	HH/JP
SCALE	1" = 50'
DATE	TIME
2/25/2026	9:01 AM

DRAWING LOCATION
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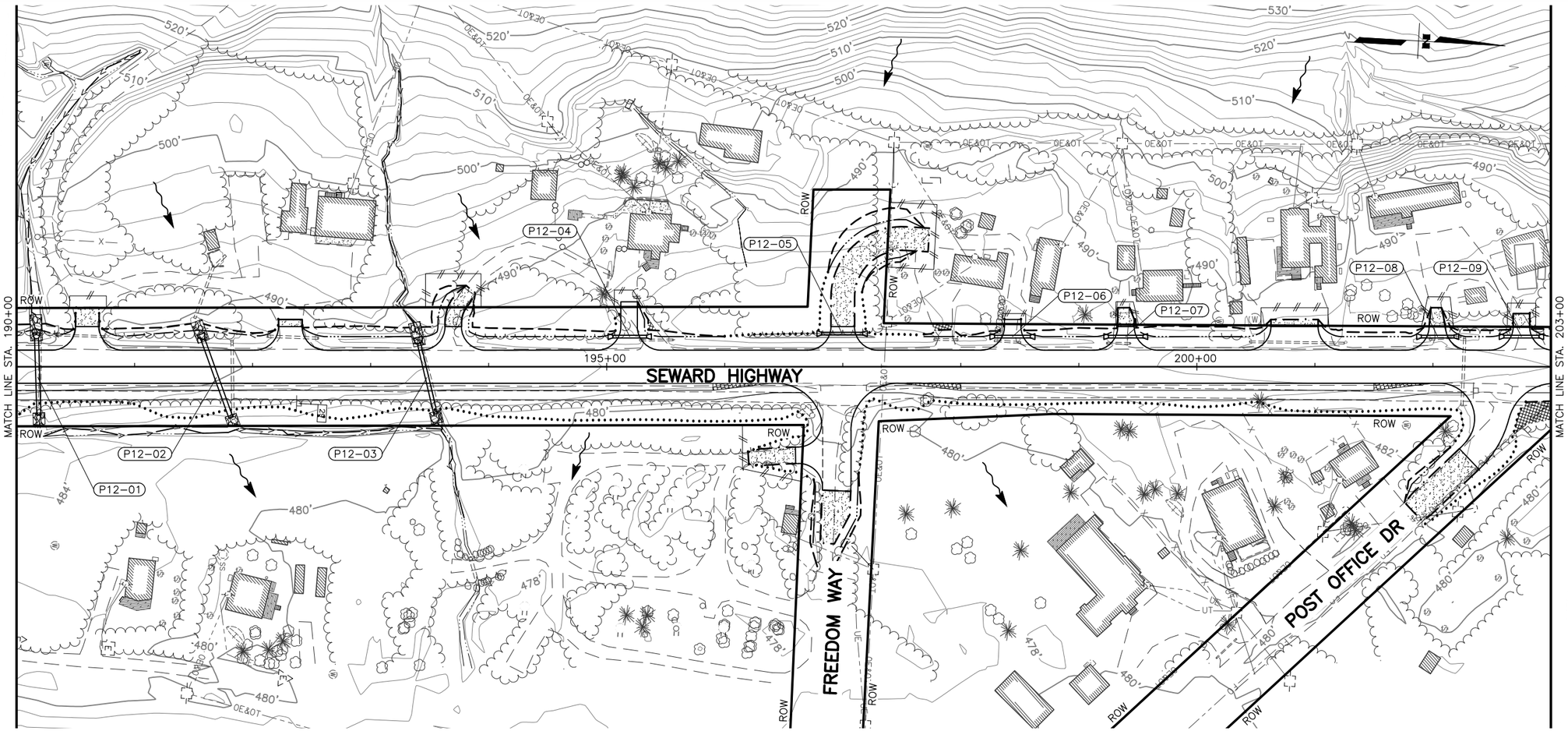
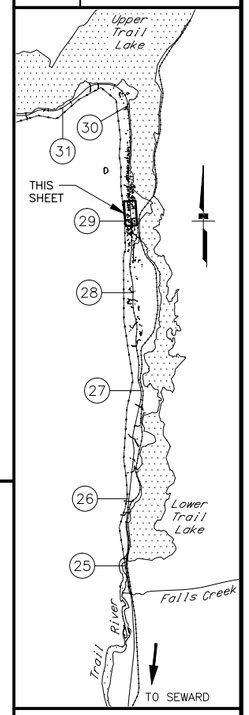


SHEET NO.	TOTAL SHEETS
13	30
STATE	YEAR
ALASKA	2027

PROJECT DESIGNATION
0311(031)/
Z546590000

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HWY MP 25.5
TO 36 TRAIL RIVER TO
STERLING WYE REHAB

EROSION AND SEDIMENT CONTROL PLAN

DESIGNED BY HH/JP
CHECKED BY CJE
DRAFTED BY HH/JP

SCALE 1" = 50'

DATE 2/25/2026 TIME 9:02 AM

DRAWING LOCATION
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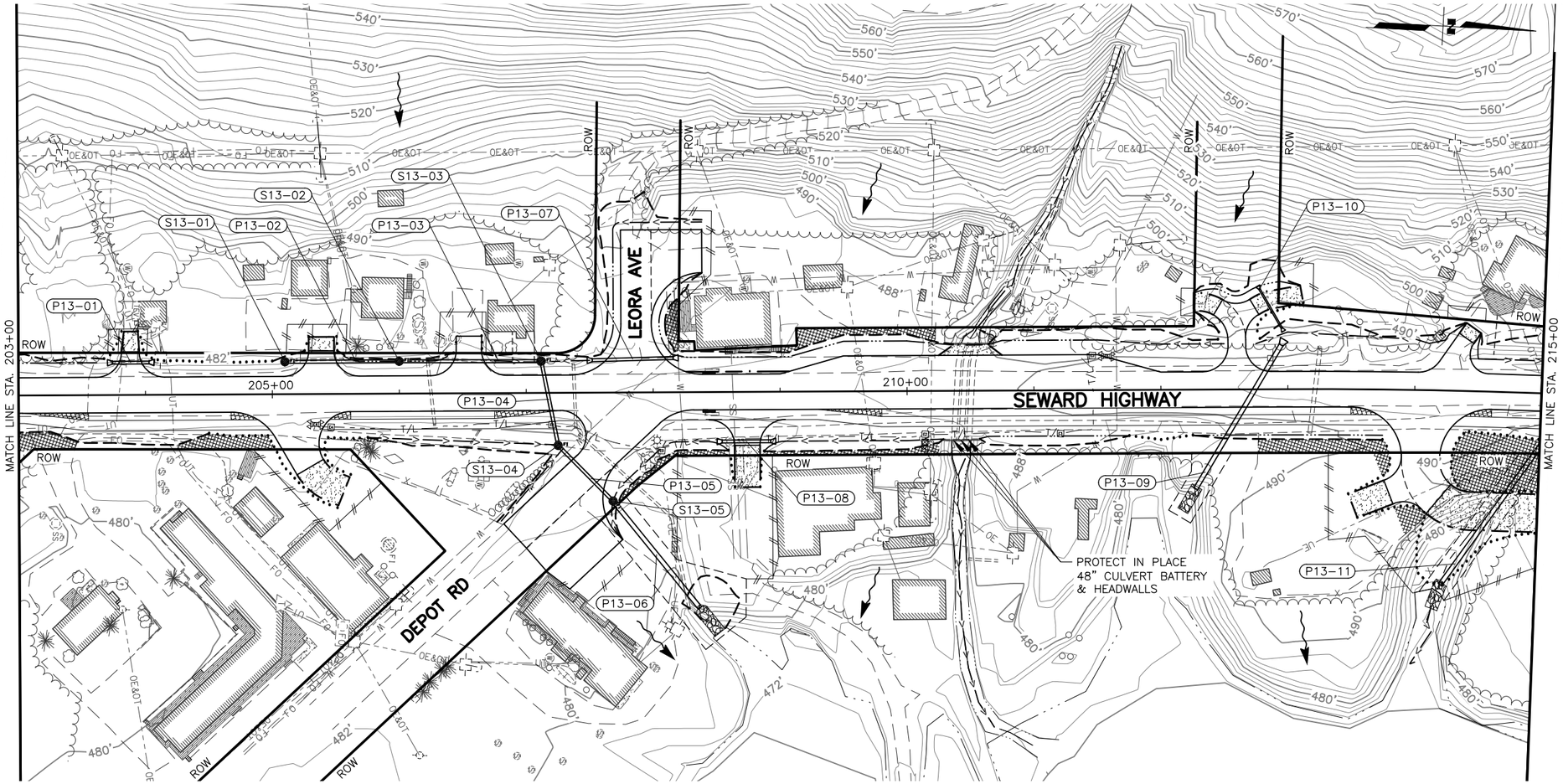
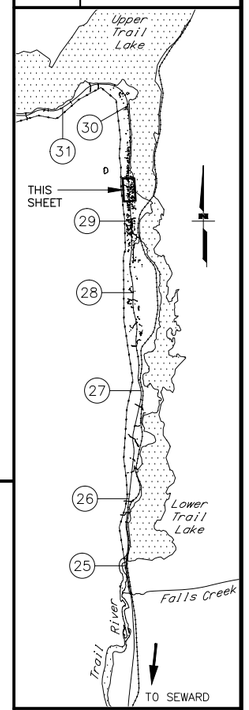


SHEET NO.	TOTAL SHEETS
14	30
STATE	YEAR
ALASKA	2027

PROJECT DESIGNATION
0311(031)/
Z546590000

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HWY MP 25.5
TO 36 TRAIL RIVER TO
STERLING WYE REHAB

EROSION AND SEDIMENT CONTROL PLAN

DRAWING LOCATION
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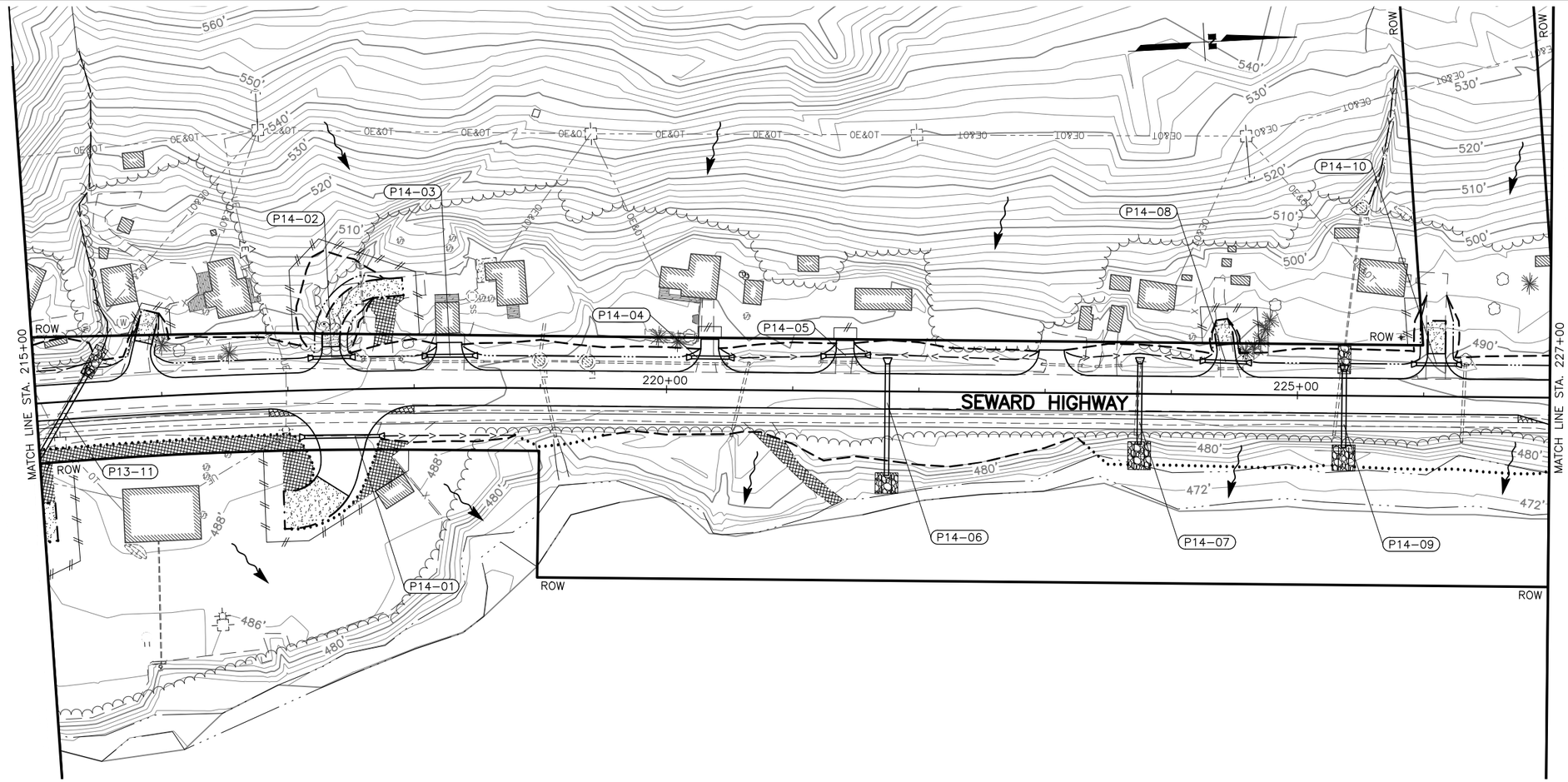
DESIGNED BY	HH/JP
CHECKED BY	CJE
DRAFTED BY	HH/JP

SCALE 1" = 50'

DATE TIME 2/25/2026 9:02 AM



SHEET NO.	TOTAL SHEETS
15	30
STATE	YEAR
ALASKA	2027

PROJECT DESIGNATION

0311(031)/
Z546590000

NO.	REVISION
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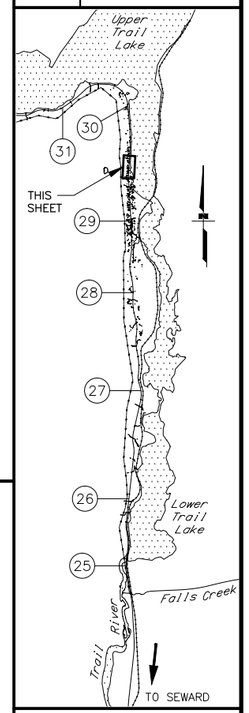
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HWY MP 25.5
TO 36 TRAIL RIVER TO
STERLING WYE REHAB

EROSION AND SEDIMENT CONTROL PLAN

DESIGNED BY HH/JP
CHECKED BY CJE
DRAFTED BY HH/JP

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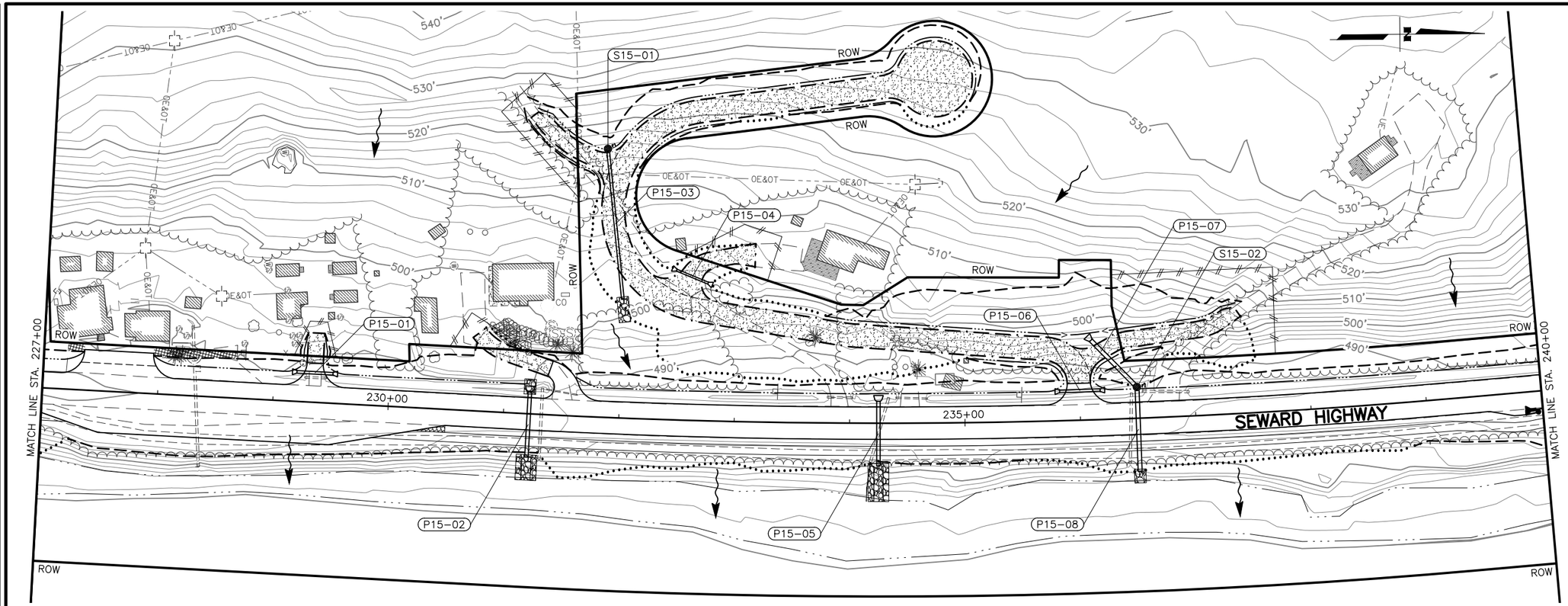

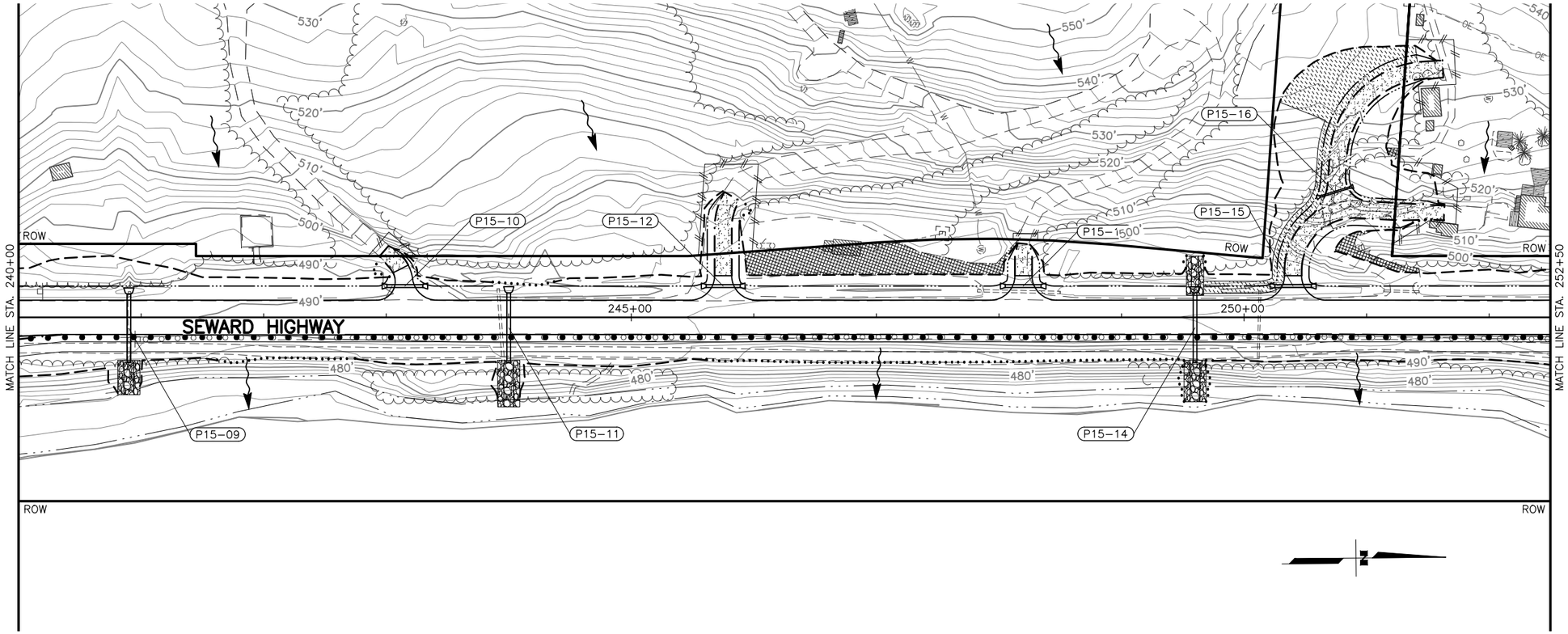

SHEET NO.	TOTAL SHEETS
16	30
STATE	YEAR
ALASKA	2027

PROJECT DESIGNATION

0311(031)/
Z546590000

NO.	REVISION
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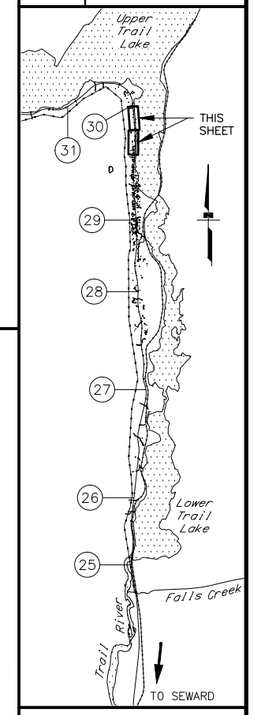
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HWY MP 25.5
TO 36 TRAIL RIVER TO
STERLING WYE REHAB

EROSION AND SEDIMENT CONTROL PLAN

DRAWING LOCATION
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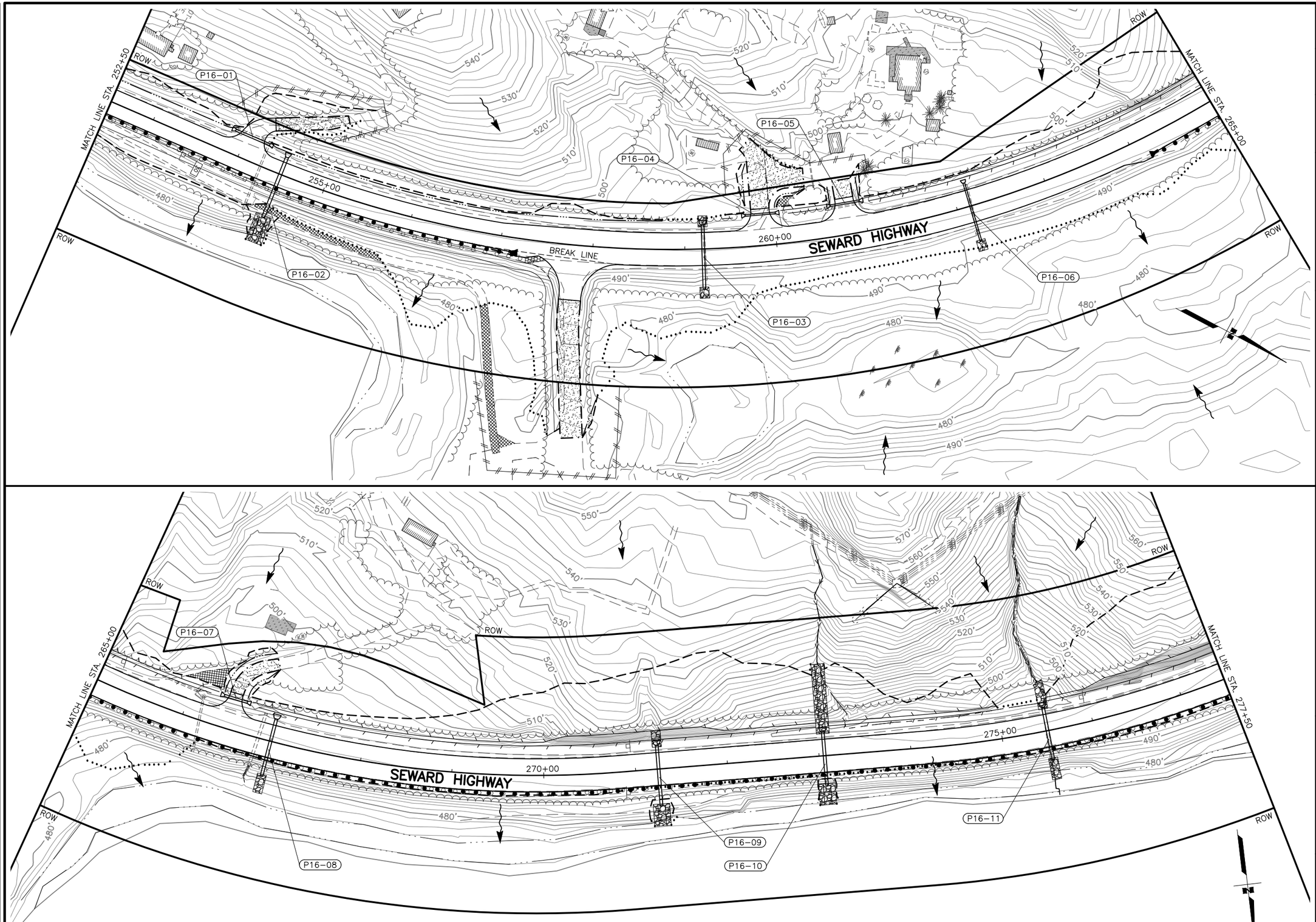
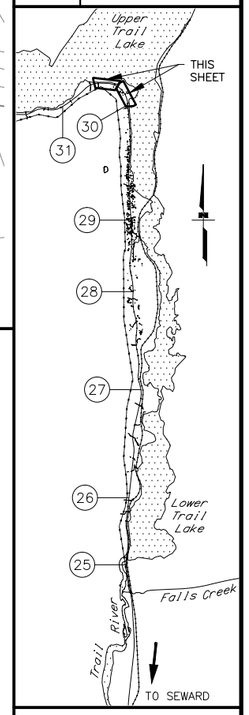
DATE 2/25/2026 TIME 9:02 AM | SCALE 1" = 50' | DESIGNED BY HH/JP | CHECKED BY CJE | DRAFTED BY HH/JP





SHEET NO.	TOTAL SHEETS
17	30
STATE	YEAR
ALASKA	2027

PROJECT DESIGNATION

0311(031)/
Z546590000

NO.	REVISION
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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HWY MP 25.5
TO 36 TRAIL RIVER TO
STERLING WYE REHAB

EROSION AND SEDIMENT CONTROL PLAN

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DATE TIME
2/26/2026 9:16 AM

DRAWING LOCATION
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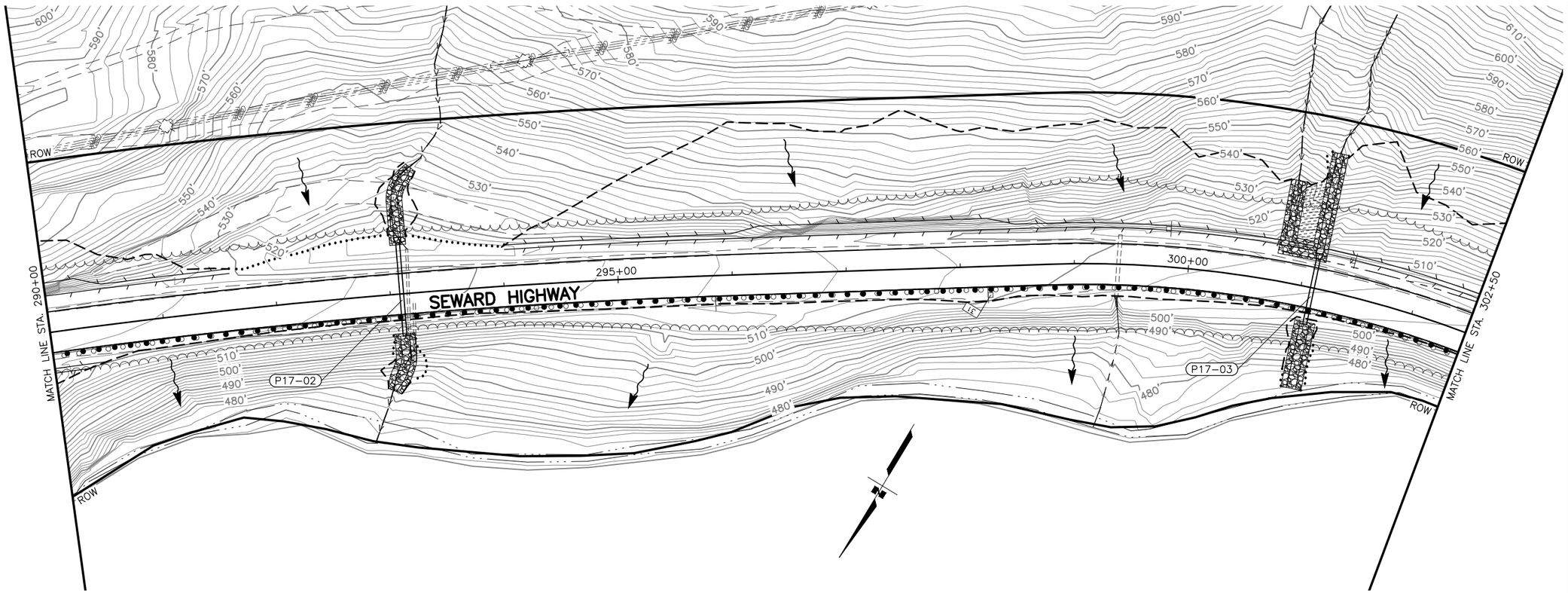
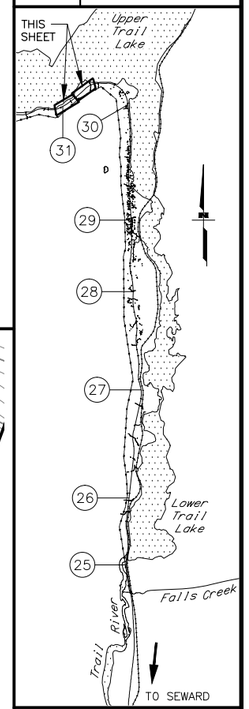


SHEET NO.	TOTAL SHEETS
18	30
STATE	YEAR
ALASKA	2027

PROJECT DESIGNATION
0311(031)/
Z546590000

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HWY MP 25.5
TO 36 TRAIL RIVER TO
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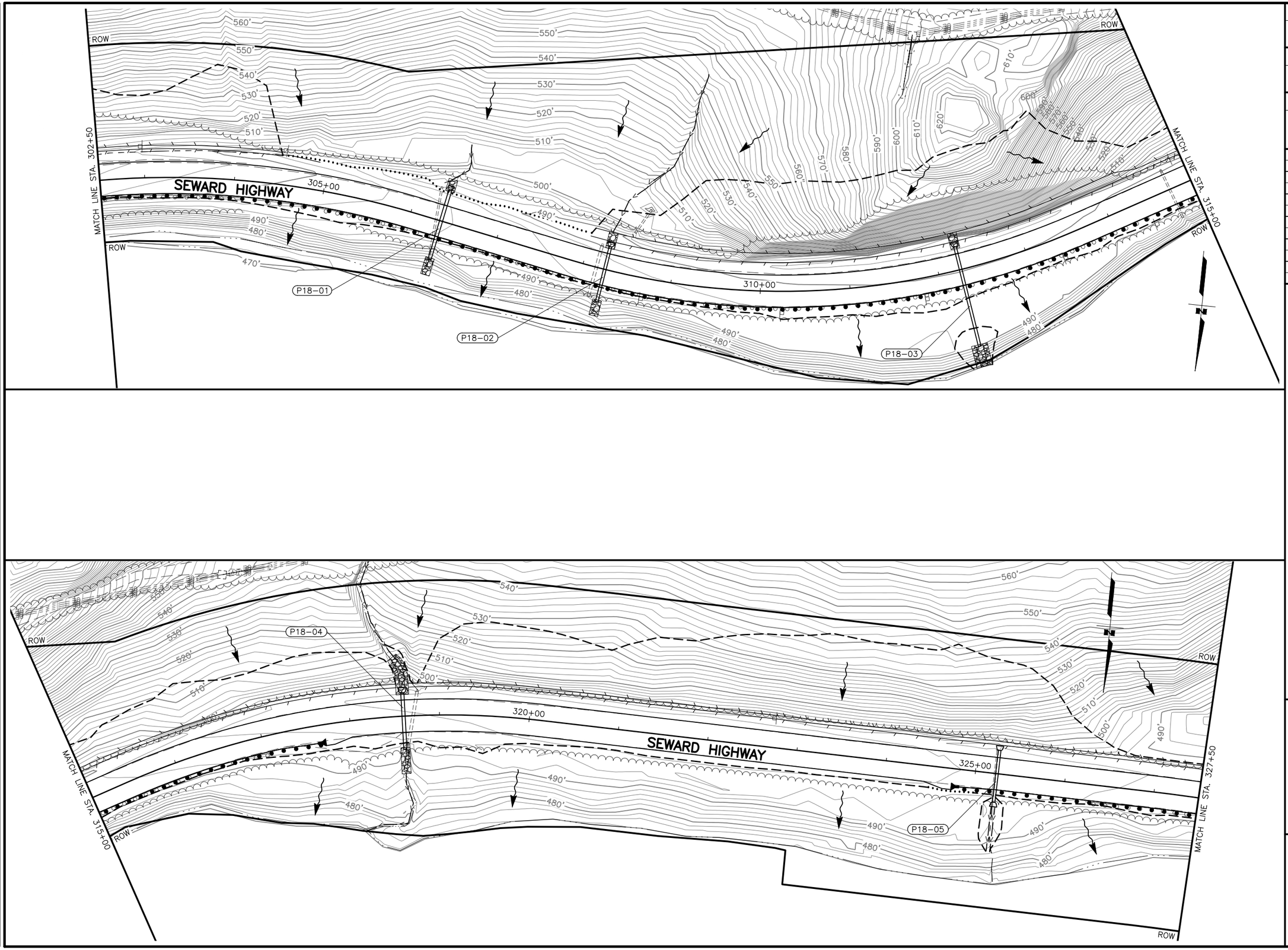
EROSION AND SEDIMENT CONTROL PLAN



SHEET NO.	TOTAL SHEETS
19	30
STATE	YEAR
ALASKA	2027

PROJECT DESIGNATION

0311(031)/
Z546590000

NO.	REVISION
DATE	
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DATE	
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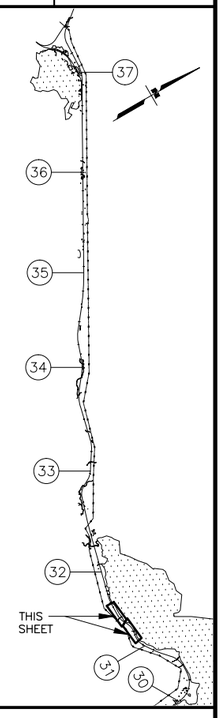

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HWY MP 25.5
TO 36 TRAIL RIVER TO
STERLING WYE REHAB

EROSION AND SEDIMENT CONTROL PLAN

DESIGNED BY	HH/JP
CHECKED BY	CJE
DRAFTED BY	HH/JP
SCALE	1" = 50'
DATE	2/25/2026
TIME	9:02 AM

DRAWING LOCATION
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DESIGNED BY HH/JP
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SCALE 1" = 50'

DATE TIME 2/25/2026 9:03 AM

DRAWING LOCATION
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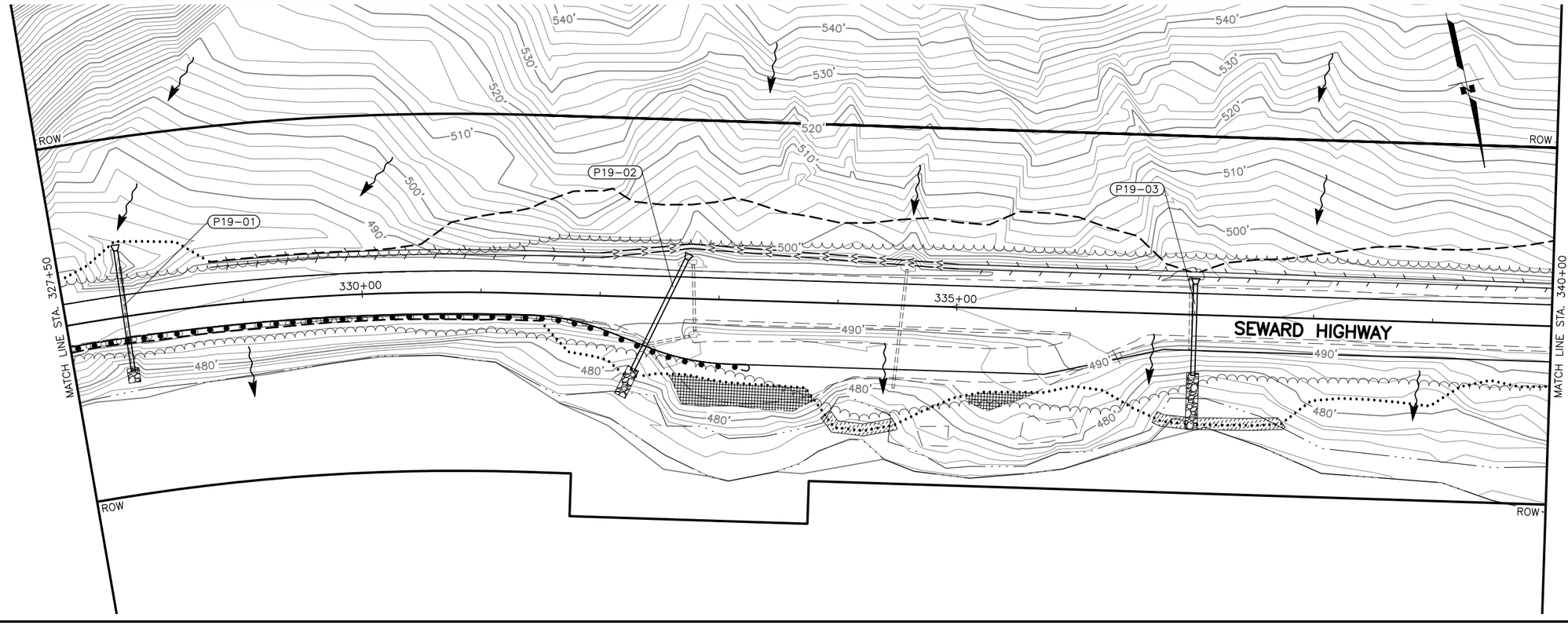

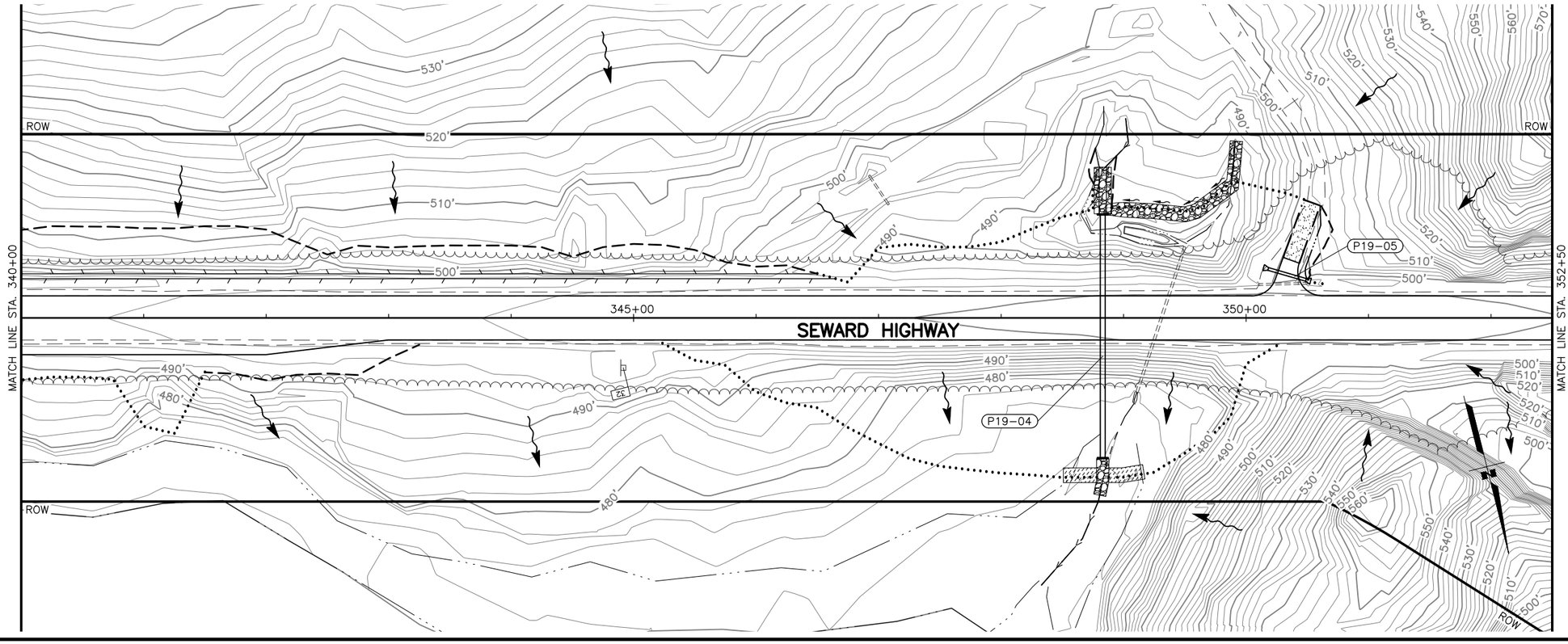

SHEET NO.	TOTAL SHEETS
20	30
STATE	YEAR
ALASKA	2027

PROJECT DESIGNATION
0311(031)/
Z546590000

NO.	REVISION
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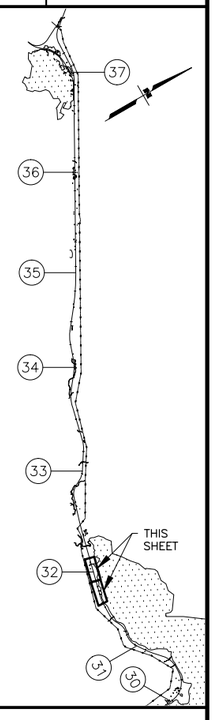

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

SEWARD HWY MP 25.5 TO 36 TRAIL RIVER TO STERLING WYE REHAB

EROSION AND SEDIMENT CONTROL PLAN

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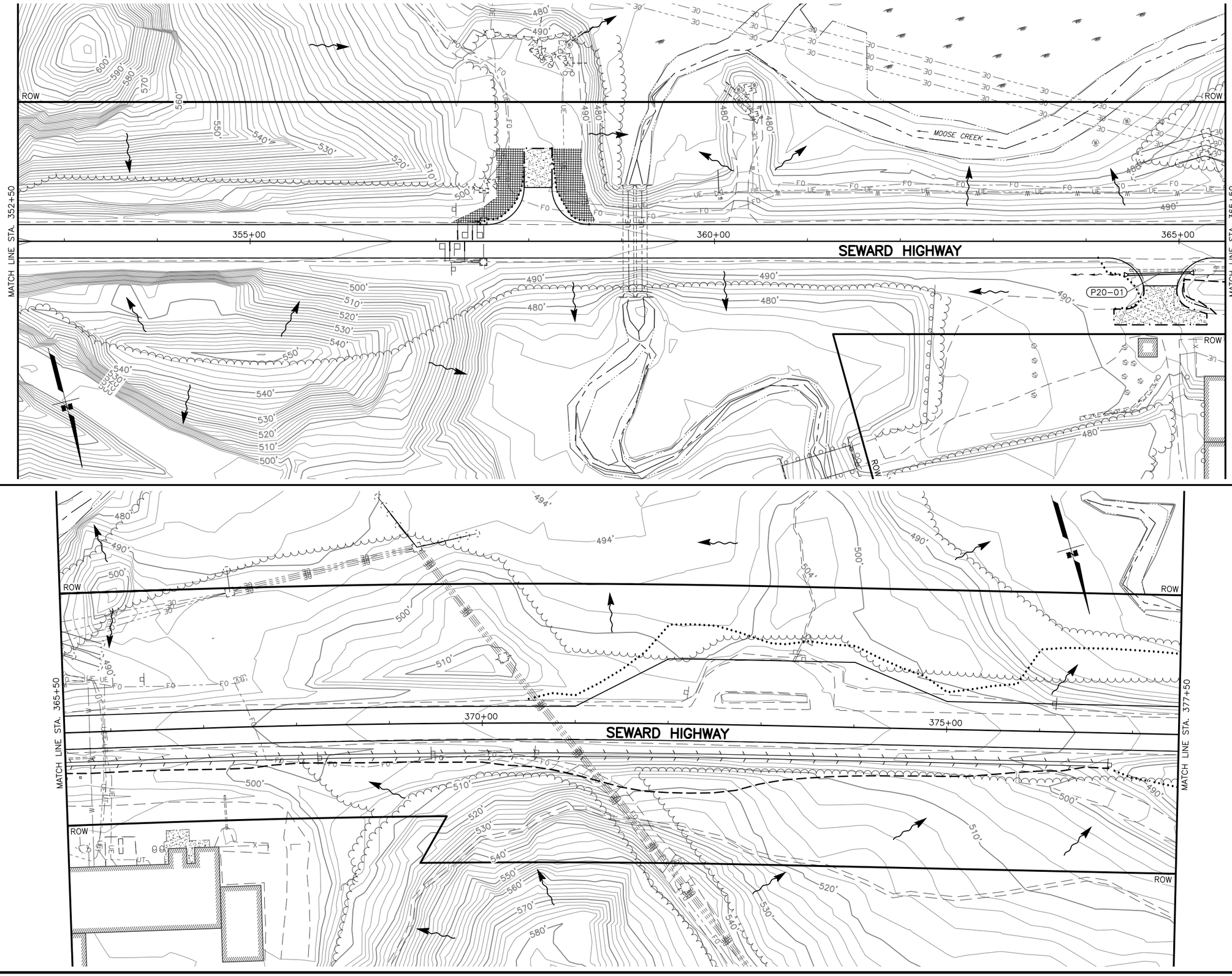
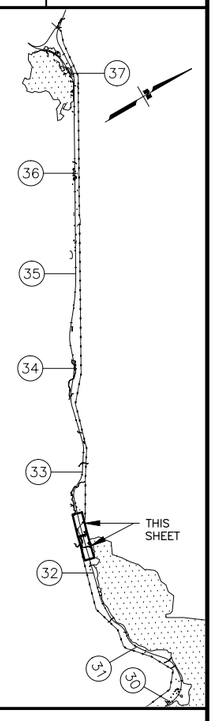


SHEET NO.	TOTAL SHEETS
21	30
STATE	YEAR
ALASKA	2027

PROJECT DESIGNATION
0311(031)/
Z546590000

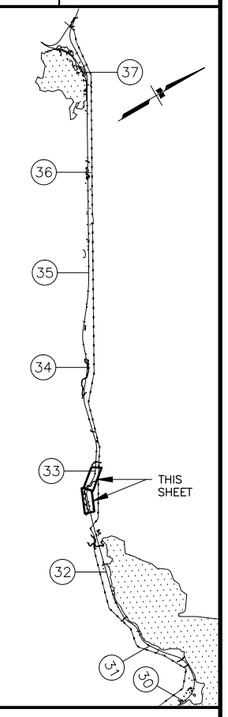
NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HWY MP 25.5
TO 36 TRAIL RIVER TO
STERLING WYE REHAB

EROSION AND SEDIMENT CONTROL PLAN



SHEET NO.	TOTAL SHEETS
22	30
STATE	YEAR
ALASKA	2027

PROJECT DESIGNATION

0311(031)/
Z546590000

NO.	REVISION
DATE	
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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HWY MP 25.5
TO 36 TRAIL RIVER TO
STERLING WYE REHAB

EROSION AND SEDIMENT CONTROL PLAN

DESIGNED BY	HH/JP
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SCALE	1" = 50'
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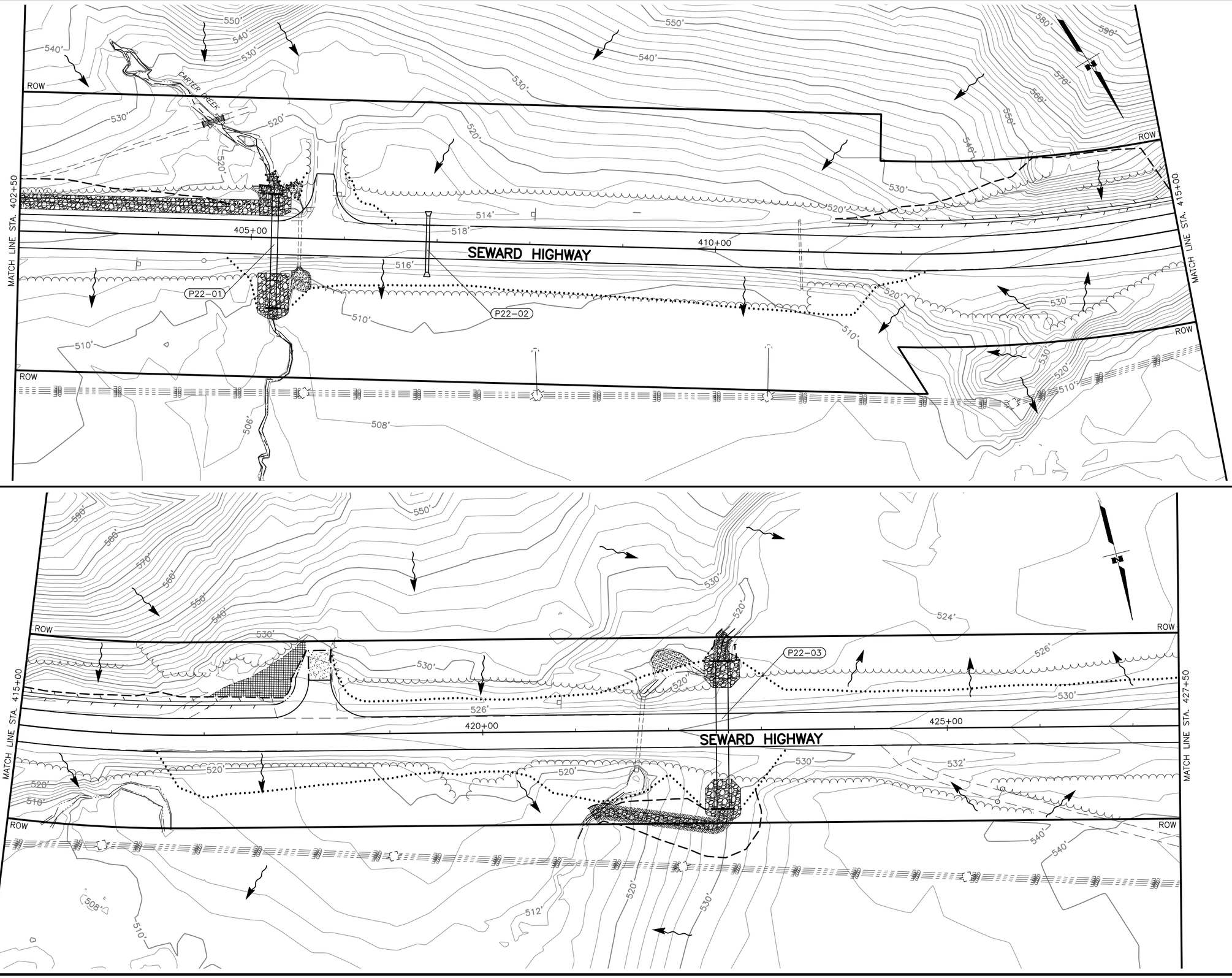

SHEET NO.	TOTAL SHEETS
23	30
STATE	YEAR
ALASKA	2027

PROJECT DESIGNATION
0311(031)/
Z546590000

NO.	REVISION
DATE	
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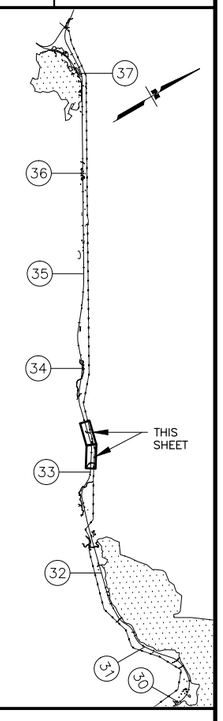

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HWY MP 25.5
TO 36 TRAIL RIVER TO
STERLING WYE REHAB

EROSION AND SEDIMENT CONTROL PLAN

DESIGNED BY HH/JP
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SCALE 1" = 50'

DATE TIME
2/26/2026 9:24 AM

DRAWING LOCATION
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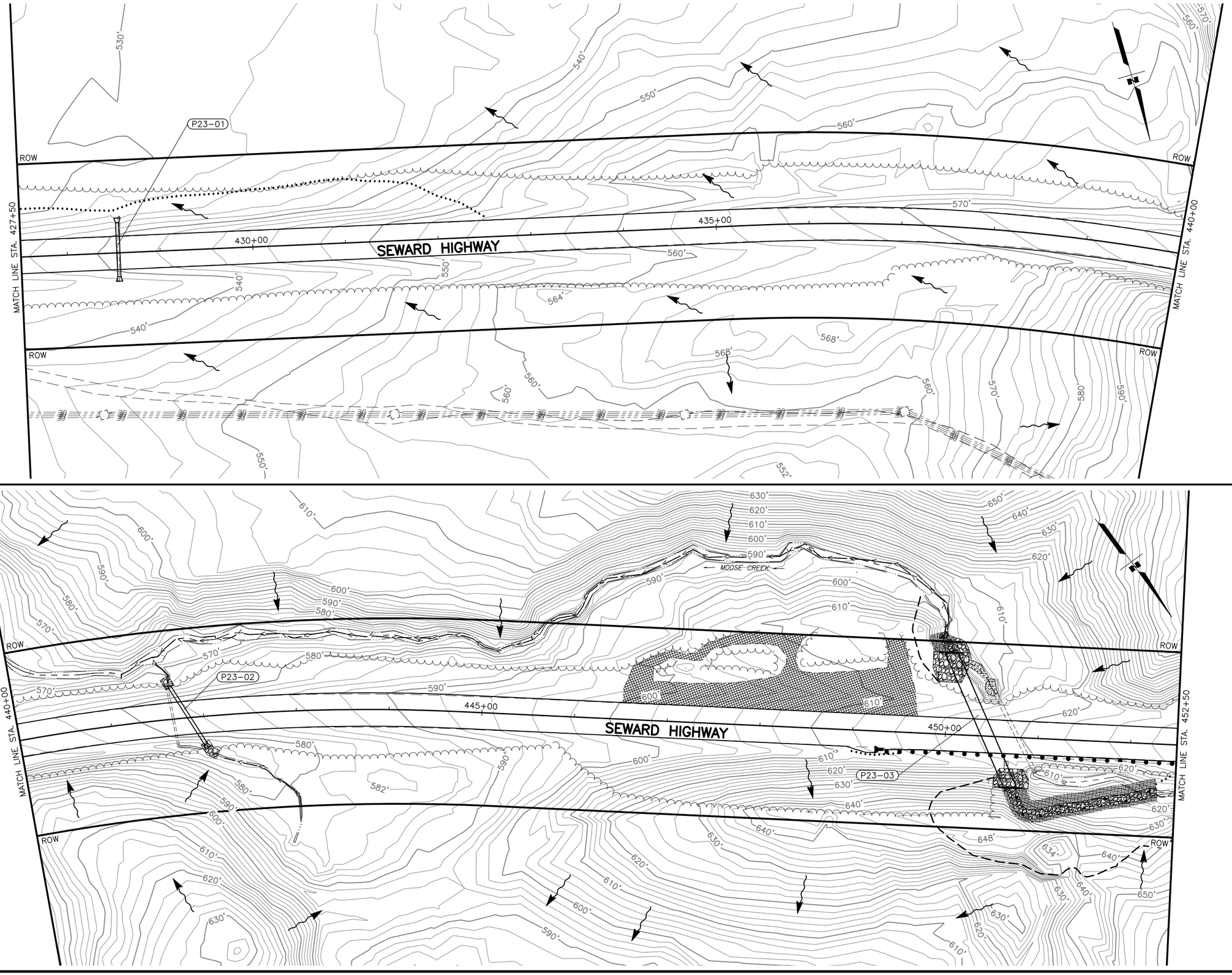

SHEET NO.	TOTAL SHEETS
24	30
STATE	YEAR
ALASKA	2027

PROJECT DESIGNATION
0311(031)/
Z546590000

NO.	REVISION
DATE	
NO.	REVISION
DATE	
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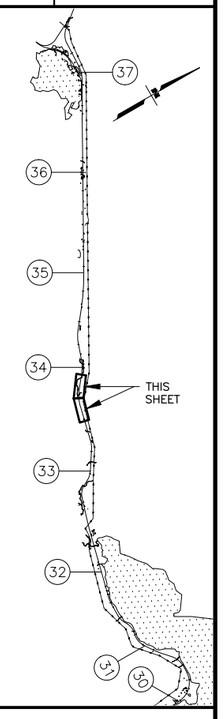

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HWY MP 25.5
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EROSION AND SEDIMENT CONTROL PLAN

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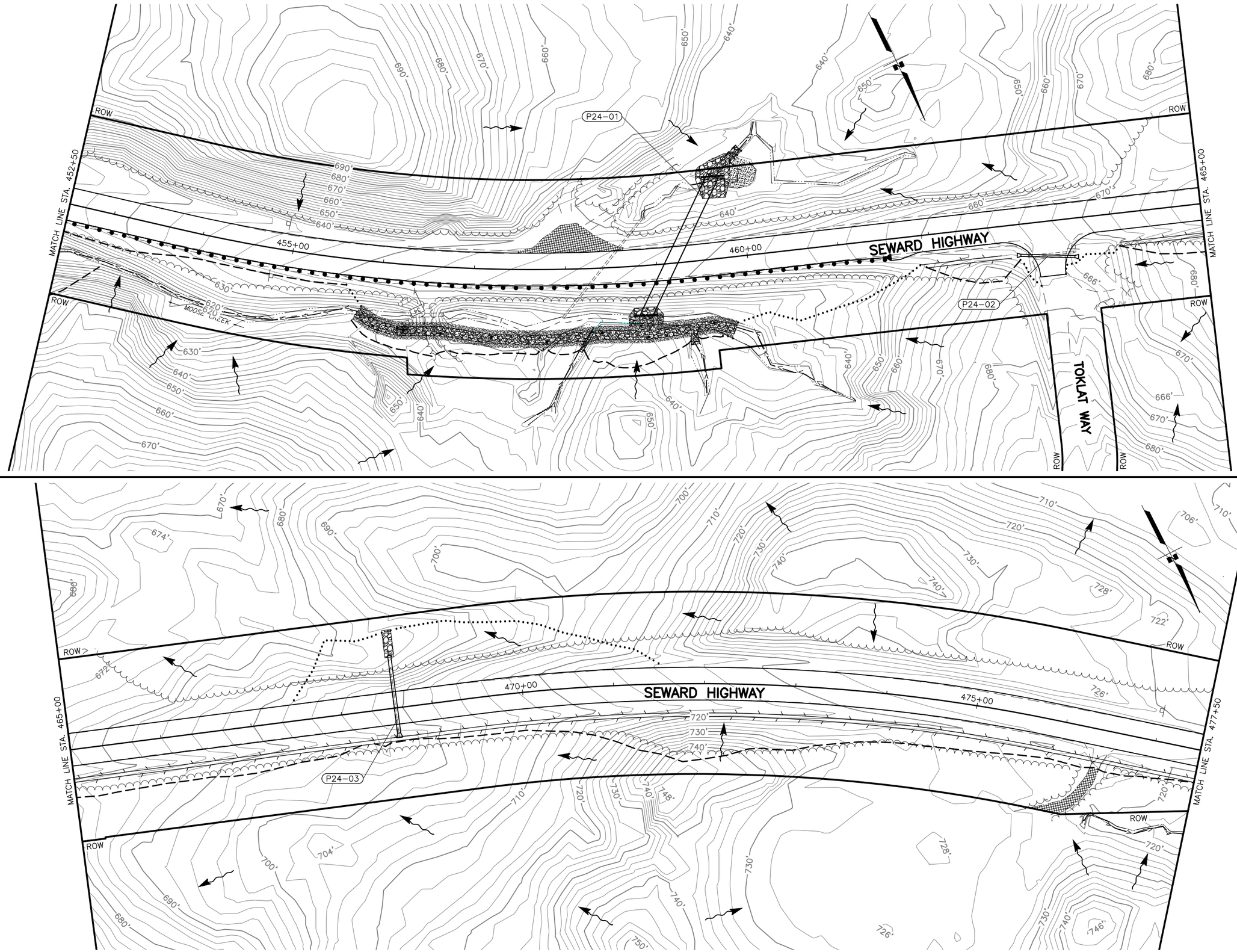

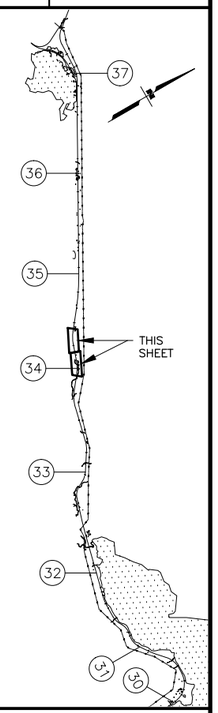

SHEET NO.	TOTAL SHEETS
25	30
STATE	YEAR
ALASKA	2027

PROJECT DESIGNATION
0311(031)/
Z546590000

NO.	REVISION
DATE	
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STATE OF ALASKA
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SEWARD HWY MP 25.5
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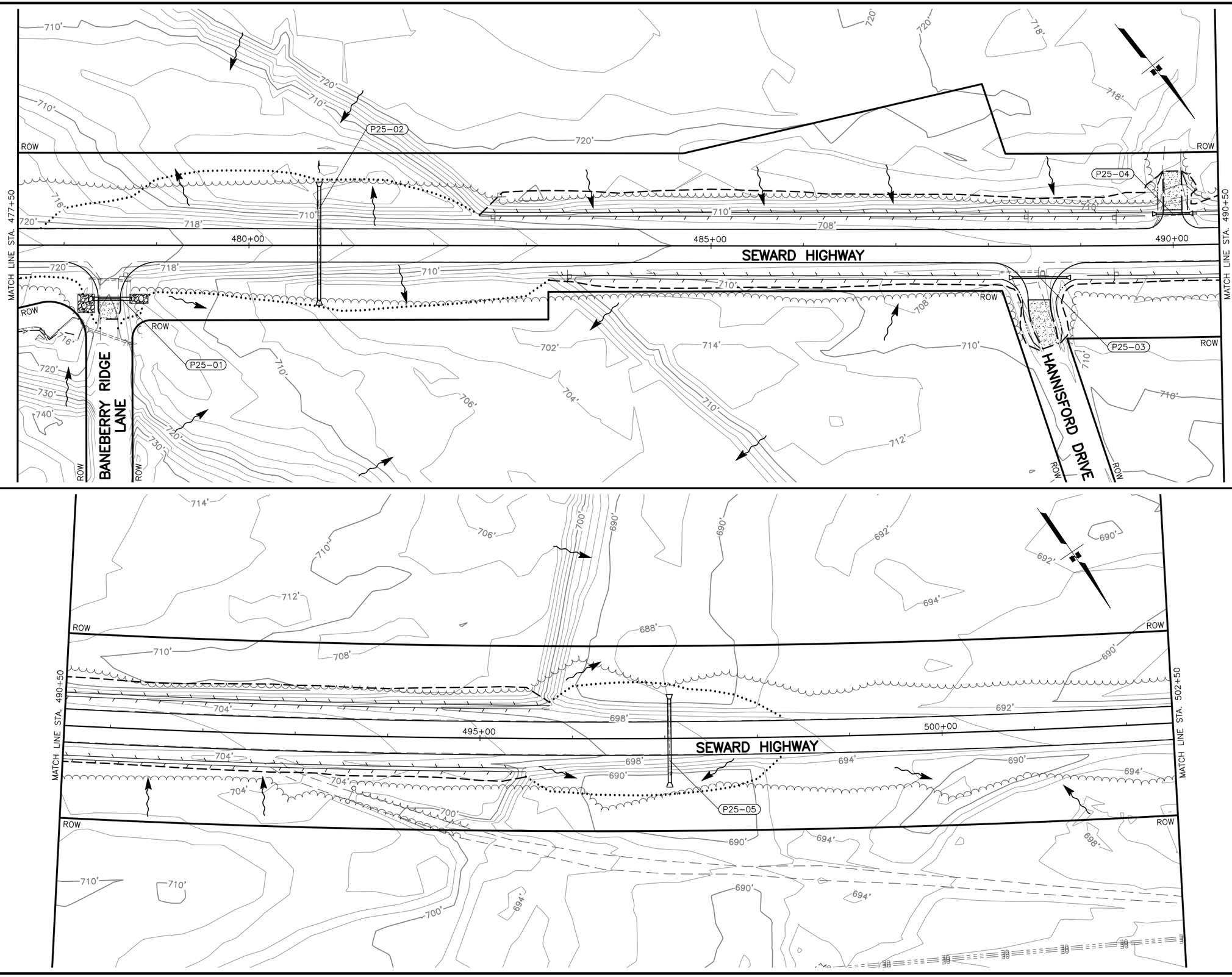

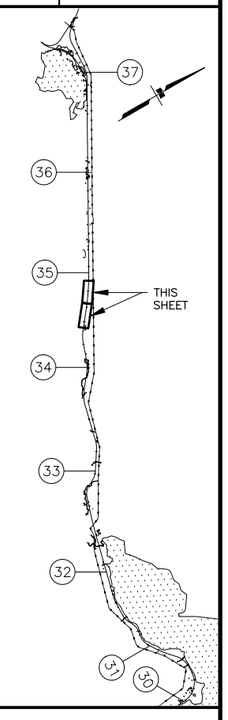

SHEET NO.	TOTAL SHEETS
26	30
STATE	YEAR
ALASKA	2027

PROJECT DESIGNATION

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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HWY MP 25.5
TO 36 TRAIL RIVER TO
STERLING WYE REHAB

EROSION AND SEDIMENT CONTROL PLAN

DRAWING LOCATION
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SCALE 1" = 50'

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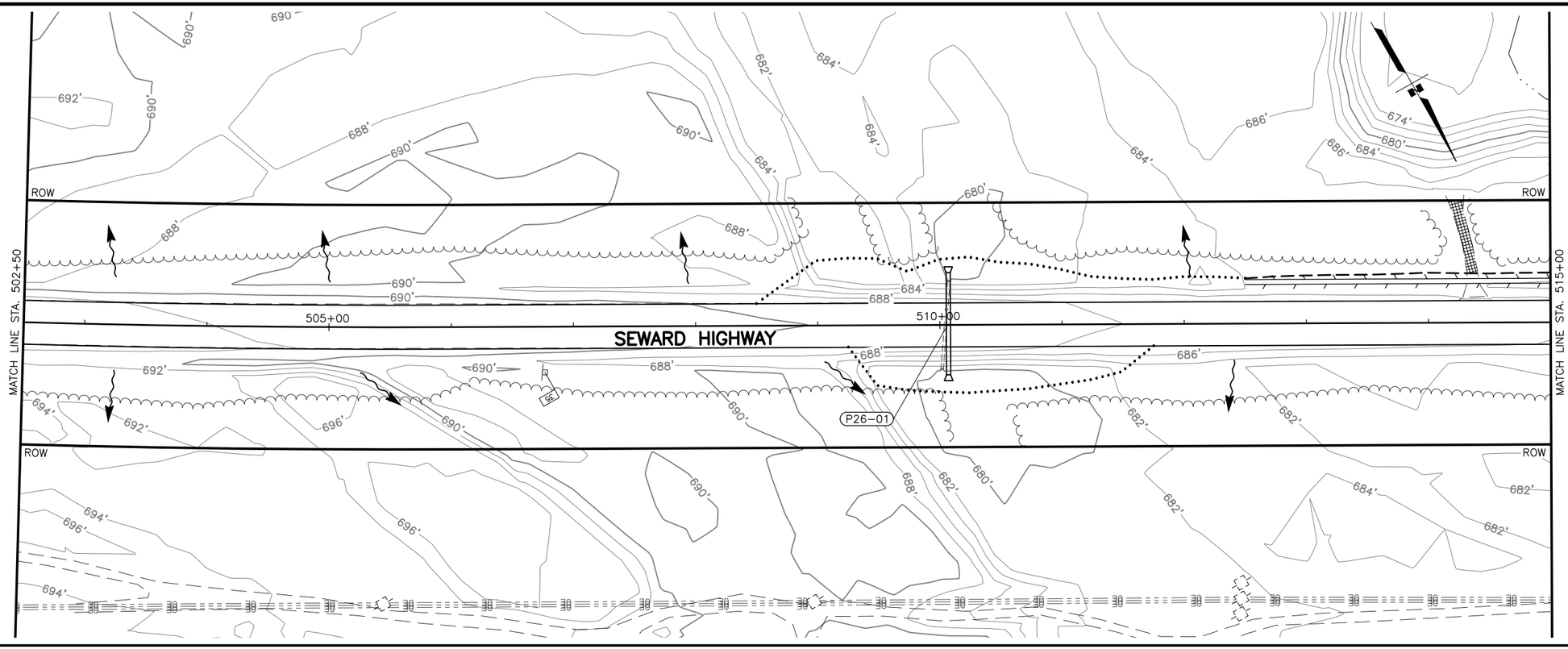

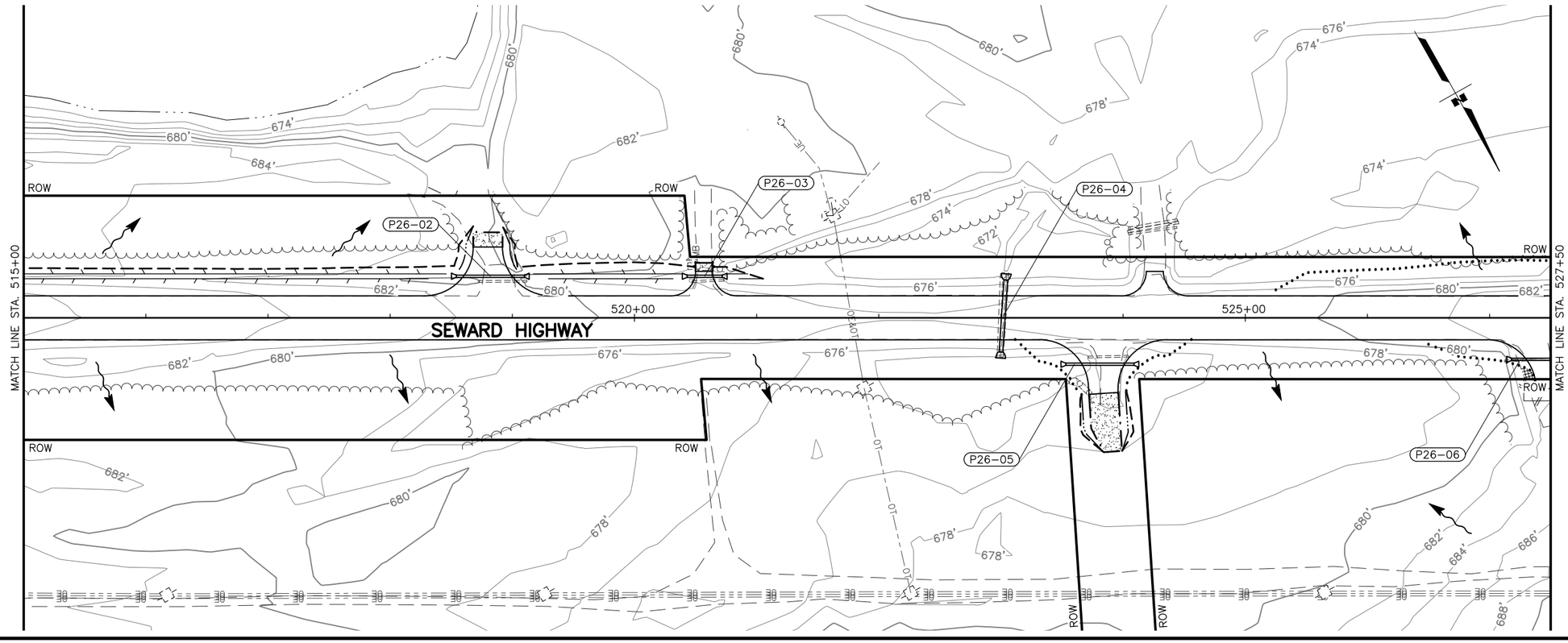

SHEET NO.	TOTAL SHEETS
27	30
STATE	YEAR
ALASKA	2027

PROJECT DESIGNATION

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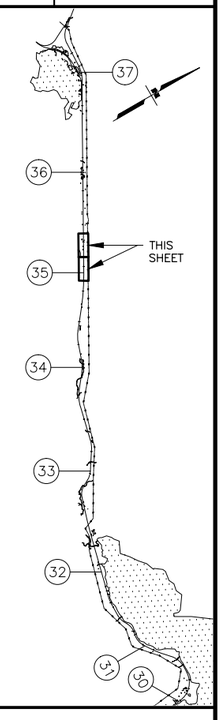

STATE OF ALASKA
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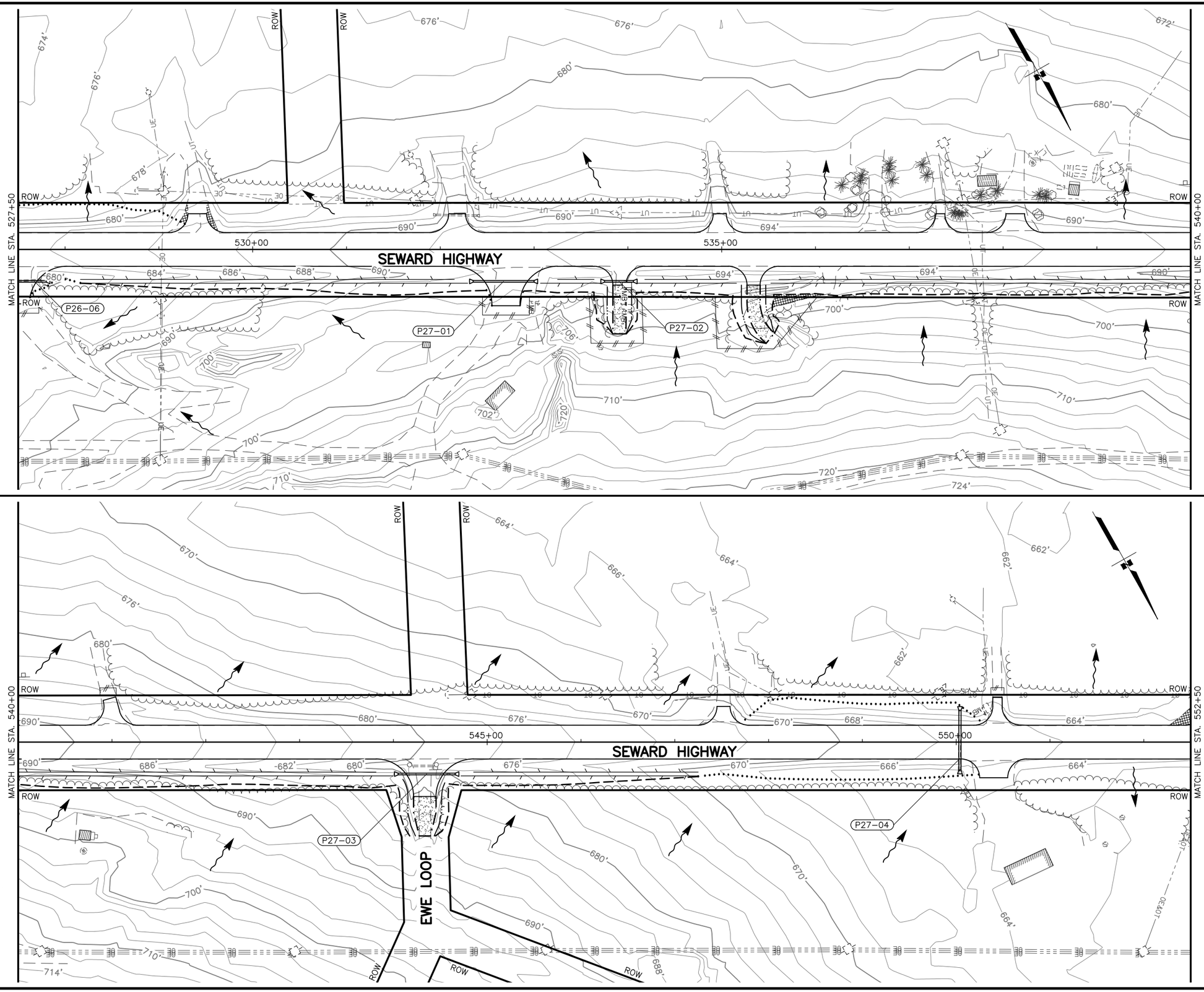

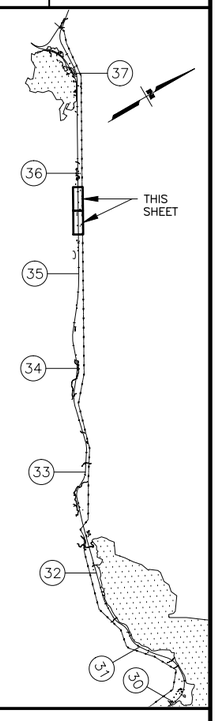

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STATE	YEAR
ALASKA	2027

PROJECT DESIGNATION

0311(031)/
Z546590000

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HWY MP 25.5
TO 36 TRAIL RIVER TO
STERLING WYE REHAB

EROSION AND SEDIMENT CONTROL PLAN

DESIGNED BY HH/JP
CHECKED BY CJE
DRAFTED BY HH/JP

SCALE 1" = 50'

DATE TIME 2/26/2026 9:25 AM

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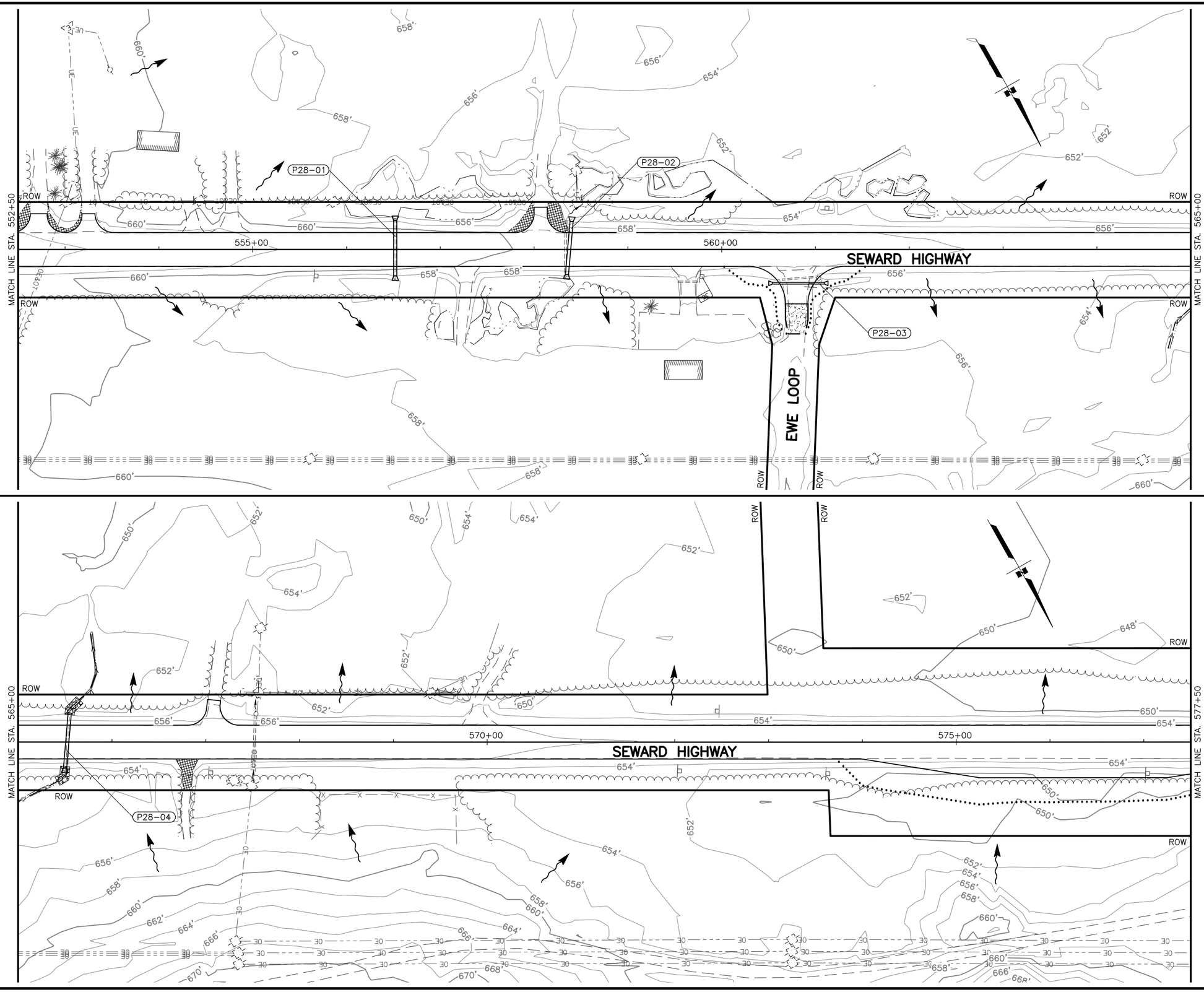

SHEET NO.	TOTAL SHEETS
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ALASKA	2027

PROJECT DESIGNATION
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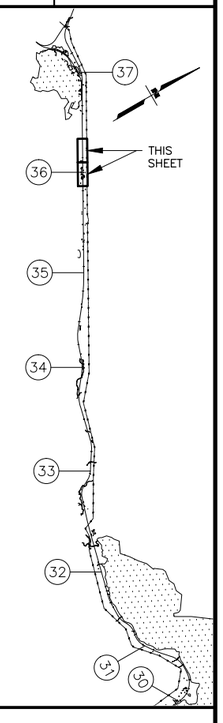

STATE OF ALASKA
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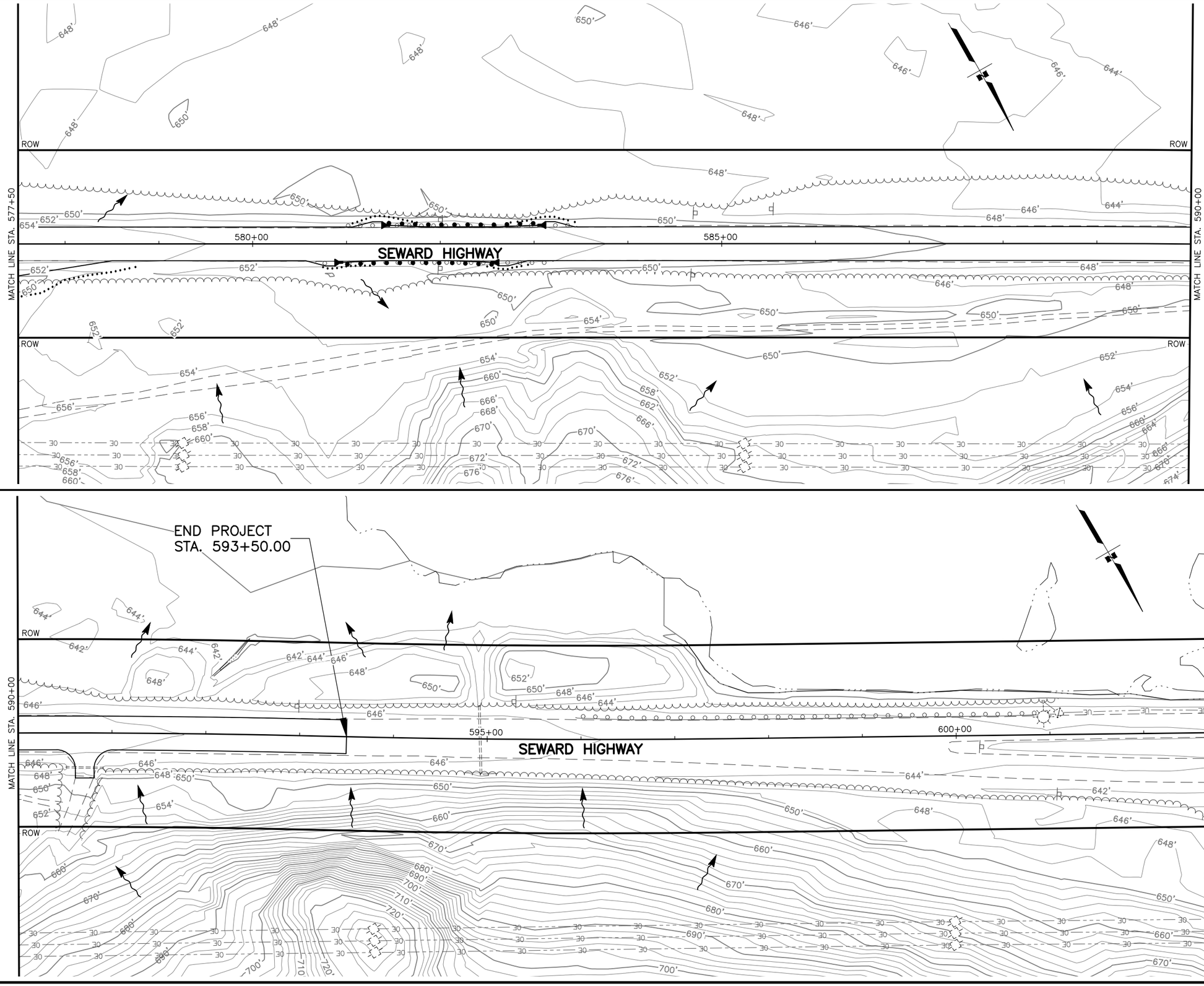

SHEET NO.	TOTAL SHEETS
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PROJECT DESIGNATION
0311(031)/
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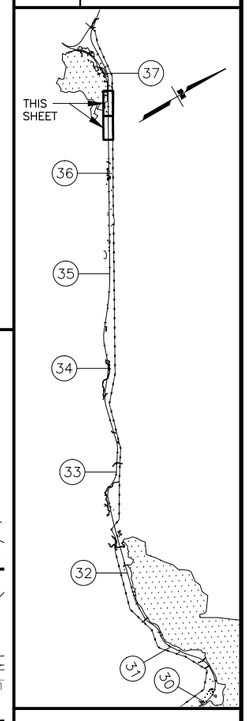
NO.	REVISION
DATE	



STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
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SEWARD HWY MP 25.5
TO 36 TRAIL RIVER TO
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APPENDIX B
BMP DETAILS

APPENDIX D
SUPPORTING DOCUMENTATION

APPENDIX E
PROJECT SPECIFIC ESCP DISCUSSIONS & COMMENTS