



**DEPARTMENT OF THE ARMY**  
**ALASKA DISTRICT, U.S. ARMY CORPS OF ENGINEERS**  
**REGULATORY DIVISION**  
**P.O. BOX 22270**  
**JUNEAU, AK 99802-2270**

August 12, 2021

Regulatory Division  
POA-2009-01254

Alaska Department of Transportation  
and Public Facilities  
Attention: Mr. Benjamin Storey  
Post Office Box 112506  
Juneau, Alaska 99811

Dear Mr. Storey:

Enclosed is the signed Department of the Army (DA) permit, file number POA-2009-01254 (Favorite Bay), which authorizes the discharge or placement of fill material into waters of the United States, including wetlands, for the construction of a land-based airport. The project site is located within Sections 5, 6, & 8, T. 51 S., R. 68 E., Copper River Meridian; USGS Quad Map Sitka B-2; Latitude 57.475520° N., Longitude 134.553167° W.; in Angoon, Alaska. Also enclosed is a Notice of Authorization which should be posted in a prominent location near the authorized work.

If changes to the plans or location of the work are necessary for any reason, plans must be submitted to us immediately. Federal law requires approval of any changes before construction begins.

Nothing in this letter excuses you from compliance with other Federal, State, or local statutes, ordinances, or regulations.

Please contact me via email at [Randal.P.Vigil@usace.army.mil](mailto:Randal.P.Vigil@usace.army.mil), by mail at the address above, by phone at (907) 201-5022, if you have questions or to request a paper copy of this letter and enclosures.

Sincerely,

A handwritten signature in black ink, appearing to read "Randal P. Vigil". The signature is fluid and cursive, with a large initial "R" and "V".

Randal P. Vigil  
Project Manager

Enclosures

# DEPARTMENT OF THE ARMY PERMIT

**Permittee:** Alaska Department of Transportation and Public Facilities

**Permit No.:** POA-2009-01254 (Favorite Bay)

**Issuing Office:** U.S. Army Engineer District, Alaska

**NOTE:** The term "you" and its derivatives, as used in this permit, means the permittee or any future transferee. The term "this office" refers to the appropriate district or division office of the Corps of Engineers having jurisdiction over the permitted activity or the appropriate official of that office acting under the authority of the commanding officer.

You are authorized to perform work in accordance with the terms and conditions specified below.

**Project Description:** Discharge of fill material into waters of the United States, including wetlands, (WOTUS) for the construction of a land-based airport:

**Permanent and Temporary Impacts to WOTUS.**

Water resource type	Permanent impacts – convert wetlands to uplands (acres) or stream loss (lf)		Alteration / Temporary impacts Wetlands (acres) and streams (lf)		
	Construct airport (runway, apron, roads etc.)	Maximum Waste disposal	Tree removal – leave stumps	Selective logging	Clearing and stockpiling
Bog forest	24.13 ac	13.45 ac	66.17 ac	9.78 ac	0 ac
Bog woodland	16.27 ac	16.21 ac	46.56 ac	0 ac	0 ac
Streams	1,284.5 lf	180 lf	6,258.07 lf	104.32 lf	0 lf
Subtotal wetlands	40.40 ac	29.66 ac	112.73 ac	9.78 ac	0 ac
Subtotal streams	1,284.5 lf*	180 lf	6,258.07 lf	104.32 lf	0 lf
Total Maximum Wetland Fill		<b>70.06 ac</b>	Total Temp. Wetland Impact		<b>122.51 ac</b>
Total Stream Loss*		<b>1,867.90 lf</b>	Total Temp. Stream Impact		<b>6,046.39 lf</b>
Re-aligned Stream 10MF		<b>550 lf</b>			
Net Stream Impact		<b>1,317.90 lf</b>			

\*Includes 1,276.9 cubic yards of fill in Streams 17, 10NF, 10SF, and MF; piping Stream 10SF 175 feet; piping Stream 17 100 feet under the perimeter embankment road and filling 316 feet of Stream 17 in the waste disposal area.

**Fill Types in WOTUS.**

Type of Fill*	Purpose of Fill and Quantity	
	Airport construction (access road, perimeter road, apron, taxiway and runway)	Waste Disposal (organics, fines, woody debris)
<b>General</b>		
Unsuitable material from site excavation – organic soil (peat, muck), fines (silts and clays) and woody debris	De minimus**	46,635 yd. <sup>3</sup>
Suitable materials from on-site excavation – silt, clay, sand, gravel, rock	355,365 yd. <sup>3</sup>	--
Subbase	54,516 yd. <sup>3</sup>	--
Concrete rock drains (2"Hx2"W, var. lengths) for the perimeter road	Up to 21 (each)	--
CS Pipe – 36" plus sand bedding (access road, AWOS pad, second wind cone)	3 (each) + 20 yd. <sup>3</sup>	--
<b>Stream 10MF Runway Undercrossing and Realignment</b>		
Aluminum Structural Plate (ASP) pipe	261'Lx11'Hx12'W	--
Riprap, Class II- inlet and outlet protection	1,060 yd. <sup>3</sup>	--
Class B bedding (for the ASP pipe)	2,150 yd. <sup>3</sup>	--
Concrete slurry (for the ASP pipe)	600 yd. <sup>3</sup>	--
Geomembrane (for the ASP pipe)	760 yd. <sup>3</sup>	--
Sand bedding (for the ASP pipe)	360 yd. <sup>3</sup>	--
Stream and pool substrate (new channel)	460 yd. <sup>3</sup>	--
Habitat rocks (new channel)	145 (each)	--
Large Wood (new channel)	45 pieces	--
Subtotal	415,291 yd. <sup>3</sup>	43,635 yd. <sup>3</sup>
<b>Total</b>	<b>458,926 yd.<sup>3</sup></b>	

\*Does not include base rock or asphalt for the finished surfaces

\*\*A de minimus amount of organics would be back-filled in wetlands as part of site excavation.

All work will be performed in accordance with the attached plan, 6 sheets dated September 10, 2020, and 35 sheets dated July 31, 2020.

**Project Location:** Section 5, 6, & 8, T. 51 S., R. 68 E., Copper River Meridian; USGS Quad Map Sitka B-2; Latitude 57.475520° N., Longitude 134.553167° W.; in Angoon, Alaska.

**Permit Conditions:**

**General Conditions:**

1. The time limit for completing the work authorized ends on **August 31, 2026**.

If you find that you need more time to complete the authorized activity, submit your request for a time extension to this office for consideration at least one month before the above date is reached.

2. You must maintain the activity authorized by this permit in conformance with the terms and conditions of this permit. You are not relieved of this requirement if you abandon the permitted activity, although you may make a good faith transfer to a third party in compliance with General Condition 4 below. Should you wish to cease to maintain the authorized activity or should you desire to abandon it without a good faith transfer, you must obtain a modification of this permit from this office, which may require restoration of the area.

3. If you discover any previously unknown historic or archeological remains while accomplishing the activity authorized by this permit, you must immediately notify this office of what you have found. We will initiate the Federal and State coordination required to determine if the remains warrant a recovery effort or if the site is eligible for listing in the National Register of Historic Places.

4. If you sell the property associated with this permit, you must obtain the signature of the new owner in the space provided and forward a copy of the permit to this office to validate the transfer of this authorization.

5. If a conditioned water quality certification has been issued for your project, you must comply with the conditions specified in the certification as special conditions to this permit. For your convenience, a copy of the certification is attached if it contains such conditions.

6. You must allow representatives from this office to inspect the authorized activity at any time deemed necessary to ensure that it is being or has been accomplished in accordance with the terms and conditions of your permit.

**Special Conditions:**

1. Prior to commencing the work authorized by this permit, the Permittee shall purchase 18 wetland credits from the Southeast Alaska Mitigation Fund, 28.35 wetland credits from the Trillium Mitigation Bank, and 118.9 wetland credits from the Natzuhinin Mitigation Bank for the loss of 70.06 acres of wetlands, including the purchase of 1.54 stream credits from the Natzuhini Mitigation Bank for the loss of 1,867.90 linear feet of stream loss. You must email the signed credit transaction form to [mitigationmanager@usace.army.mil](mailto:mitigationmanager@usace.army.mil) and to [Randal.P.Vigil@usace.army.mil](mailto:Randal.P.Vigil@usace.army.mil) upon completion of credit transaction (see form attached). If you are unable to complete this transaction, you are required to obtain a permit modification prior to commencing the work authorized by this permit for approval of an alternate mitigation method.

2. Within 60 days of completion of the work authorized by this permit, the Permittee shall complete the attached "Self-Certification Statement of Compliance" form and submit it to the Corps (U.S. Army Corps of Engineers, Regulatory Division, CEPOA-RD, Juneau Field Office, P.O. Box 22270 Juneau, AK. In the event that the completed work deviates in any manner from the authorized work, the Permittee shall describe the deviations between the work authorized by this permit and the work as constructed on the "Self-Certification Statement of Compliance" form. The description of any deviations on the "Self-Certification Statement of Compliance" form does not constitute approval of any deviations by the Corps.



**Further Information:**

1. Congressional Authorities: You have been authorized to undertake the activity described above pursuant to:

( ) Section 10 of the Rivers and Harbors Act of 1899 (33 U.S.C. 403).

(X) Section 404 of the Clean Water Act (33 U.S.C. 1344).

( ) Section 103 of the Marine Protection, Research, and Sanctuaries Act of 1972 (33 U.S.C. 1413).

2. Limits of this authorization.

a. This permit does not obviate the need to obtain other Federal, State, or local authorization required by law.

b. This permit does not grant any property rights or exclusive privileges.

c. This permit does not authorize any injury to the property or rights of others.

d. This permit does not authorize interference with any existing or proposed Federal project.

3. Limits of Federal Liability. In issuing this permit, the Federal Government does not assume any liability for the following:

a. Damages to the permitted project or uses thereof as a result of other permitted or unpermitted activities or from natural causes.

b. Damages to the permitted project or uses thereof as a result of current or future activities undertaken by or on behalf of the United States in the public interest.

c. Damages to persons, property, or to other permitted or unpermitted activities or structures caused by the activity authorized by this permit.

d. Design or construction deficiencies associated with the permitted work.

e. Damage claims associated with any future modification, suspension, or revocation of this permit.

4. Reliance on Applicant's Data: The determination of this office that issuance of this permit is not contrary to the public interest was made in reliance on the information you provided.

5. Reevaluation of Permit Decision. This office may reevaluate its decision on this permit at any time the circumstances warrant. Circumstances that could require a reevaluation include, but are not limited to, the following:

a. You fail to comply with the terms and conditions of this permit.

b. The information provided by you in support of your permit application proves to have been false, incomplete, or inaccurate (See 4 above).

c. Significant new information surfaces which this office did not consider in reaching the original public interest decision.

Such a reevaluation may result in a determination that it is appropriate to use the suspension, modification, and revocation procedures contained in 33 CFR 325.7 or enforcement procedures such as those contained in 33 CFR 326.4 and 326.5. The referenced enforcement procedures provide for the issuance of an administrative order requiring you to comply with the terms and conditions of your permit and for the initiation of legal action where appropriate. You will be required to pay for any corrective measures ordered by this office, and if you fail to comply with such directive, this office may in certain

situations (such as those specified in 33 CFR 209.170) accomplish the corrective measures by contract or otherwise and bill you for the cost.

6. Extensions. General Condition 1 establishes a time limit for the completion of the activity authorized by this permit. Unless there are circumstances requiring either a prompt completion of the authorized activity or a reevaluation of the public interest decision, the Corps will normally give favorable consideration to a request for an extension of this time limit.

Your signature below, as permittee, indicates that you accept and agree to comply with the terms and conditions of this permit.

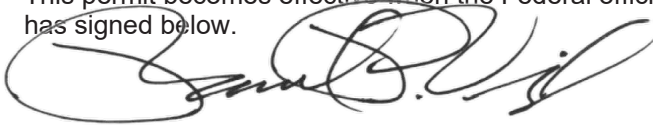
**Benjamin Storey** Digitally signed by Benjamin Storey  
Date: 2021.08.02 16:20:58 -08'00'

8/2/21

Benjamin Storey  
Southcoast Region Environmental Manager  
Alaska Department of Transportation and Public Facilities

(DATE)

This permit becomes effective when the Federal official, designated to act for the Secretary of the Army, has signed below.



8/12/2021

FOR (DISTRICT COMMANDER)  
Colonel Damon A. Delarosa  
Randal P. Vigil  
South Branch, Regulatory Division

(DATE)

When the structures or work authorized by this permit are still in existence at the time the property is transferred the terms and conditions of this permit will continue to be binding on the new owner(s) of the property. To validate the transfer of this permit and the associated liabilities associated with compliance with its terms and conditions have the transferee sign and date below.

\_\_\_\_\_  
(TRANSFEEE)

\_\_\_\_\_  
(DATE)



**This notice of authorization must be  
conspicuously displayed at the site of work.**

United States Army Corps of Engineers  
Favorite Bay

**A permit to: discharge or place fill material into waters of the United States, including wetlands, for the construction of a land-based airport**

**at: Latitude 57.475520° N., Longitude 134.553167° W.; in Angoon, Alaska**

**has been issued to: Alaska Dept. of Transportation & Public Facilities**

**on: August 12, 2021 and expires: August 31, 2026**

**Address of Permittee: PO Box 112506, Juneau, AK 99811.**

**Permit Number:**

POA-2009-01254

**FOR: *District Commander*  
Randal P. Vigil  
Project Manager  
REGULATORY DIVISION**



THE STATE  
of **ALASKA**  
GOVERNOR MIKE DUNLEAVY

**Department of Environmental  
Conservation**  
**DIVISION OF WATER**

Wastewater Discharge Authorization  
Program

January 19, 2021

Dept. of Transportation & Public Facilities  
Attn: Benjamin Storey  
PO Box 112506  
Juneau, Alaska 99811

Re: ADOT&PF, Angoon Airport  
POA-2009-01254, Favorite Bay

555 Cordova Street  
Anchorage, Alaska 99501-2617  
Main: 907.269.6285  
Fax: 907.334.2415  
[www.dec.alaska.gov/water/wwdp](http://www.dec.alaska.gov/water/wwdp)

Dear Mr. Storey:

In accordance with Section 401 of the Federal Clean Water Act of 1977 and provisions of the Alaska Water Quality Standards, the Department of Environmental Conservation (DEC) is issuing the enclosed water quality certification that the discharge from the proposed project will comply with water quality requirements for the placement of dredged and/or fill material in waters of the U.S., including wetlands and streams, associated with the development of a land-based airport on Admiralty Island, Alaska.

DEC regulations provide that any person who disagrees with this decision may request an informal review by the Division Director in accordance with 18 AAC 15.185 or an adjudicatory hearing in accordance with 18 AAC 15.195 – 18 AAC 15.340. An informal review request must be delivered to the Director, Division of Water, 555 Cordova Street, Anchorage, AK 99501, within 20 days of the permit decision. Visit <http://dec.alaska.gov/commish/review-guidance/> for information on Administrative Appeals of Department decisions.

An adjudicatory hearing request must be delivered to the Commissioner of the Department of Environmental Conservation, PO Box 111800, Juneau, AK 99811-1800; Location: 410 Willoughby Avenue, Suite 303, Juneau within 30 days of the permit decision. If a hearing is not requested within 30 days, the right to appeal is waived.

By copy of this letter we are advising the U.S. Army Corps of Engineers of our actions and enclosing a copy of the certification for their use.

Sincerely,

Handwritten signature of James Rypkema in black ink.

James Rypkema  
Program Manager, Storm Water and Wetlands

Enclosure: 401 Water Quality Certificate

cc: (with encl.)  
Randal Vigil, USACE, Anchorage  
James Scholl, ADOT&PF, Juneau

Kate Kanouse, ADF&G  
USFWS Field Office, Juneau  
EPA, AK Operations

**STATE OF ALASKA**  
**DEPARTMENT OF ENVIRONMENTAL CONSERVATION**  
**Water Quality Certification**

In accordance with Section 401 of the Federal Clean Water Act (CWA) and the Alaska Water Quality Standards (18 AAC 70), a water quality certification is issued to Department of Transportation & Public Facilities (Attn: Benjamin Storey) at PO. Box 112506, Juneau, Alaska 99811, that the discharge from the proposed project will comply with water quality requirements for the placement of dredged and/or fill material in waters of the U.S. including wetlands and streams in association with the development of a land-based airport on Admiralty Island, Alaska.

A state issued water quality certification is required under Section 401 because the proposed activity will be authorized by a U.S. Army Corps of Engineers permit (POA-2009-01254) and a discharge of pollutants to waters of the U.S. located in the State of Alaska may result from the proposed activity. Public notice of the application for this certification was given as required by 18 AAC 15.180 in the Corps Public Notice POA-2009-01254 posted from December 9 to December 28, 2020.

**Project Description and Location**

construct a land-based airport on Admiralty Island to serve the community of Angoon and surrounding areas. The proposed airport would include the following:

- A 3,300-ft-long by 75-foot-wide paved runway
- A 150-foot-wide runway safety area centered on the runway centerline, extending 300 feet beyond each runway end
- A 35-foot-wide by roughly 362.5-foot-long paved taxiway
- A 120,000-square-foot paved apron area with future hangar, lease lots, passenger shelter space and vehicle parking space with lease lots and space for future development.
- A paved airport access road comprising two 9-foot-wide travel lanes with 1-foot shoulders.

The proposed airport property would cover 273.85 acres on the Angoon peninsula southeast of Angoon, southwest of the existing Bureau of Indian Affairs (BIA) Road (Aukta Street), and north of Killisnoo Harbor. The airport would be located on lands currently owned or managed by private landowners (Kootznoowoo, Inc.) and the City of Angoon. The airport would accommodate small, wheeled aircraft and would include a single paved runway, a paved taxiway (perpendicular) and apron, terminal building, passenger parking lot, electrical control building and generator, an access road, a perimeter fence road, and weather observation systems. The access road would consist of two paved nine-foot-wide travel lanes and one-foot shoulders. The perimeter fence embankment would serve multiple purposes and would consist of a chain-link fence, one paved nine-foot-wide lane with a one-foot shoulder.

The project would permanently convert 70.06 acres of wetlands to uplands and alter 123 acres of wetlands due to tree removal. The project would also permanently impact 1,867.90 linear feet of perennial streams and alter 6,046.39 linear feet from tree removal. Approximately 550 linear feet of Stream 10 MF would be re-created on site downstream of a proposed culvert, thereby offsetting a portion of stream loss.

The proposed activity is located within Section 5, 6, and 8, T. 51 S., R. 68 E., Copper River Meridian; Latitude 57.475520° N, Longitude -134.553167° W., in Angoon, Alaska.

## **Antidegradation Analysis Finding**

Pursuant to the Department's Antidegradation Policy and Implementation Methods at 18 AAC 70.015 and 18 AAC 70.016, DEC finds that the project would comply with the requirements for Tiers 1 and 2 regarding water quality impacts to receiving water immediately surrounding the dredge or fill material. The use of appropriate best management practices and erosion and sediment control measures would adequately protect the existing water uses and the level of water quality necessary to protect existing uses. Any potential water quality degradation is expected to be temporary and limited and necessary to accommodate important social and/or economic development in the area.

## **Conditions Necessary to Ensure Compliance with Water Quality Standards or Other Appropriate Water Quality Requirements of State Law**

The Department of Environmental Conservation (DEC) reviewed the application and certifies that there is reasonable assurance that the proposed activity, as well as any discharge which may result, will comply with applicable provisions of Section 401 of the CWA and the Alaska Water Quality Standards, 18 AAC 70, provided that the following additional measures are adhered to.

Pursuant to 18 AAC 70.020(a) and the Toxics and Other Deleterious Organic and Inorganic Substances in 18 AAC 70.020(b), the following conditions are designed to reduce pollutants from construction activity to ensure compliance with the applicable water quality standards.

### **Pollutants/Toxics**

1. Fuel storage and handling activities for equipment must be sited and conducted so there is no petroleum contamination of the ground, subsurface, or surface waterbodies.
2. During construction, spill response equipment and supplies such as sorbent pads shall be available and used immediately to contain and cleanup oil, fuel, hydraulic fluid, antifreeze, or other pollutant spills. Any spill amount must be reported in accordance with Discharge Notification and Reporting Requirements (AS 46.03.755 and 18 AAC 75 Article 3). The applicant must contact by telephone the DEC Area Response Team for Southeast Alaska (907) 465-5340 during work hours or 1-800-478-9300 after hours. Also, the applicant must contact by telephone the National Response Center at 1-800-424-8802.
3. Construction equipment shall not be operated below the ordinary high-water mark if equipment is leaking fuel, oil, hydraulic fluid, or any other hazardous material. Equipment shall be inspected and recorded in a log daily basis for leaks. If leaks are found, the equipment shall not be used and pulled from service until the leak is repaired.
4. Geotechnical investigations of material sites and excavation, along the runways and locations of ancillary facilities, shall include geochemical screening and testing in accordance with the recommendations of the Global Acid Rock Drainage Guide (GARD Guide), sponsored by the International Network for Acid Prevention. The project proponent shall submit a plan for 1) geochemical characterization of acid generation potential, and 2) proper handling of material for preventing and mitigating harmful impacts of acid drainage (Plan) to DEC for review and approval. Locations containing unacceptable acid generating potential (as defined in the approved Plan) shall not be disturbed. If avoidance of those areas containing unacceptable acid generating potential material is not possible, the permittee must follow the Plan for material handling and acid rock drainage from occurring at the site. The permittee shall provide DEC Division of Water ([dec-401cert@alaska.gov](mailto:dec-401cert@alaska.gov), contact: Jim Rypkema, 334-2288) the opportunity to review and approve the draft Plan 60-days prior to groundbreaking.

5. Fill material (including dredge material) must be clean sand, gravel or rock, free from petroleum products and toxic contaminants in toxic amounts.

### **Turbidity, Erosion and Sediment Control**

6. Runoff discharged to surface water (including wetlands) from a construction site disturbing one or more acres must be covered under Alaska's General Permit for Storm Water Discharges from Large and Small Construction Activities in Alaska (CGP, AKR100000, 18 AAC 83). The CGP requires the development and implementation of a Storm Water Pollution Prevention Plan (SWPPP). For projects that disturb more than five acres, this SWPPP must also be submitted to DEC prior to construction along with the Notice of Intent (NOI). For more information see DEC's website for the CGP at <http://dec.alaska.gov/water/wastewater/stormwater/construction>, or call 907-269-6285.
7. Excavated or fill material, including overburden, shall be placed so that it is stable, meaning after placement the material does not show signs of excessive erosion. Indicators of excess erosion include gullyng, head cutting, caving, block slippage, material sloughing, etc. The material must be contained with siltation best management practices (BMPs) to preclude reentry into any waters of the U.S., which includes wetlands.
8. Include the following BMPs to handle storm water and total storm water volume discharges as they apply to the site:
  - a. Divert storm water from off-site around the site so that it does not flow onto the project site and cause erosion of exposed soils;
  - b. Slow down or contain storm water that may collect and concentrate within a site and cause erosion of exposed soils;
9. Place velocity dissipation devices (e.g., check dams, sediment traps, or riprap) along the length of any conveyance channel to provide a non-erosive flow velocity. Also place velocity dissipation devices where discharges from the conveyance channel or structure join a water course to prevent erosion and to protect the channel embankment, outlet, adjacent stream bank slopes, and downstream waters.

### **Vegetation Protection and Restoration**

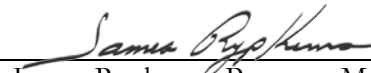
10. Any disturbed ground and exposed soil not covered with fill must be stabilized and re-vegetated with endemic species, grasses, or other suitable vegetation in an appropriate manner to minimize erosion and sedimentation, so that a durable vegetative cover is established in a timely manner.
11. All work areas, material access routes, and surrounding wetlands involved in the construction project shall be clearly delineated and marked in such a way that equipment operators do not operate outside of the marked areas.

### **General**

12. DEC coordinates with several regulatory programs to review the impacts of CWA §404 permits. A Section 401 Certification does not release the applicant from obtaining all necessary federal, state, and local permits, nor does it limit more restrictive requirements set through any such program. It does not eliminate, waive, or vary the applicant's obligation to comply with all state water statutes and rules through construction, installation, and operation of the project or mitigation, including, but not limited to the APDES permitting program 18 AAC 83 and 18 AAC 72.

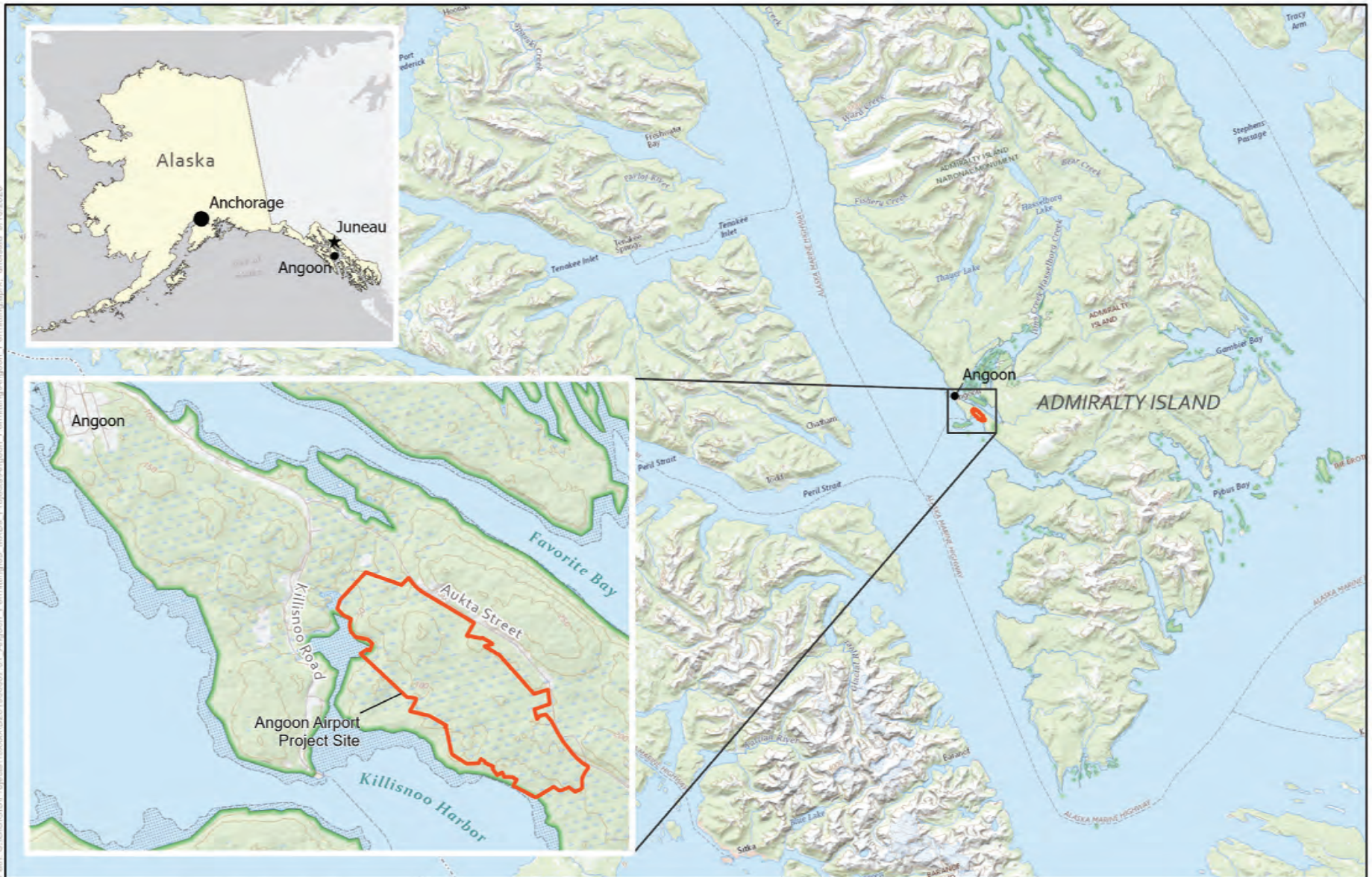
13. USACE has stated that projects shall be reviewed under the federal rules in place at the time the application is received. This project and its mitigation were reviewed under the federal and state statutes and laws in place at the time the application was received. If the USACE determines any part or condition of this Certification is not lawful or is waived and unenforceable, the determination shall apply only to the part or condition so determined. The determination shall not apply to nor invalidate any remaining parts or conditions of this Certification. If the USACE makes such a determination, the applicant remains responsible for meeting state water quality statutes and rules, and if a violation occurs, may be subject to state enforcement (18 AAC 70.010).
14. This Certification does not release the applicant from any liability, penalty, or duty imposed by Alaska or federal statutes, regulations, rules or local ordinances, and it does not convey a property right or an exclusive privilege.
15. If your project is not completed by the time limit specified under USACE Permit and will continue, or for a modification of the USACE permit, you must submit an application for renewal of this certification at least 60 days before the expiration date or any deadline established by USACE for certification action on the modification, or 60 days before the proposed effective date of the modification, whichever is sooner. (18 AAC 15.120(b), 18 AAC 15.130, 18 AAC 15.180).

Date: January 19, 2021

  
\_\_\_\_\_  
James Rypkema, Program Manager  
Storm Water and Wetlands



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Parts of Sec 5, 6, & 8, T51S, R68E, CM; 134°33'1"W,  
57°28'34"N. Coordinate System: NAD 1983  
StatePlane Alaska 1 FIPS 5001 Feet



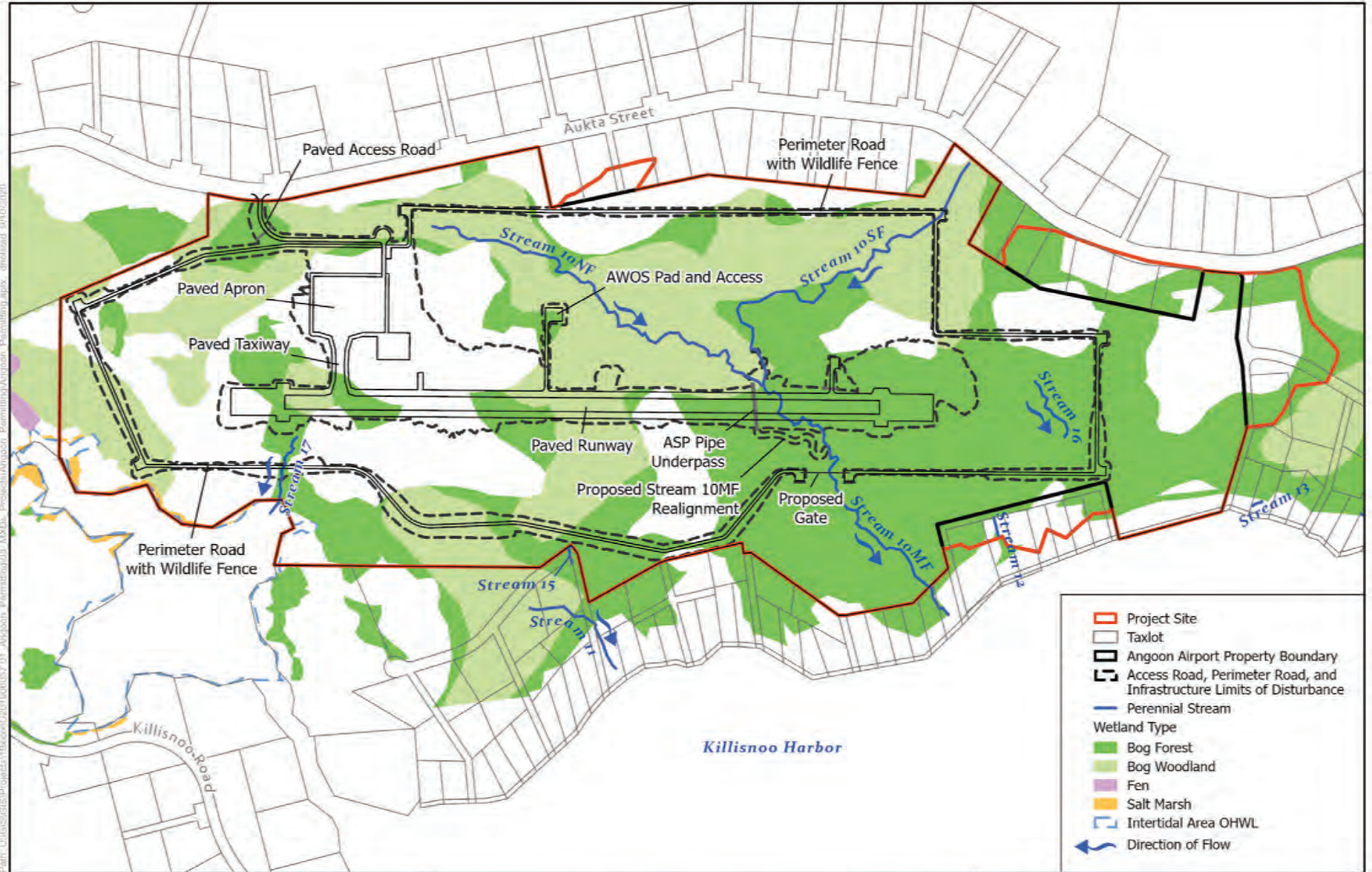
Applicant: Alaska Department of Transportation & Public Facilities  
File No.: TBD  
Waterway: Killisnoo Harbor  
Proposed Activity: Airport and Perimeter Fence Road

Vicinity Map  
Sheet 1 of 6

Date 9/10/2020

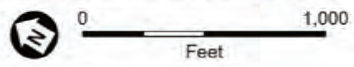
POA-2009-01254, Favorite Bay





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Parts of Sec 5, 6, & 8, T51S, R68E, CM; 134°33'1"W,  
 57°28'34"N. Coordinate System: NAD 1983  
 StatePlane Alaska 1 FIPS 5001 Feet



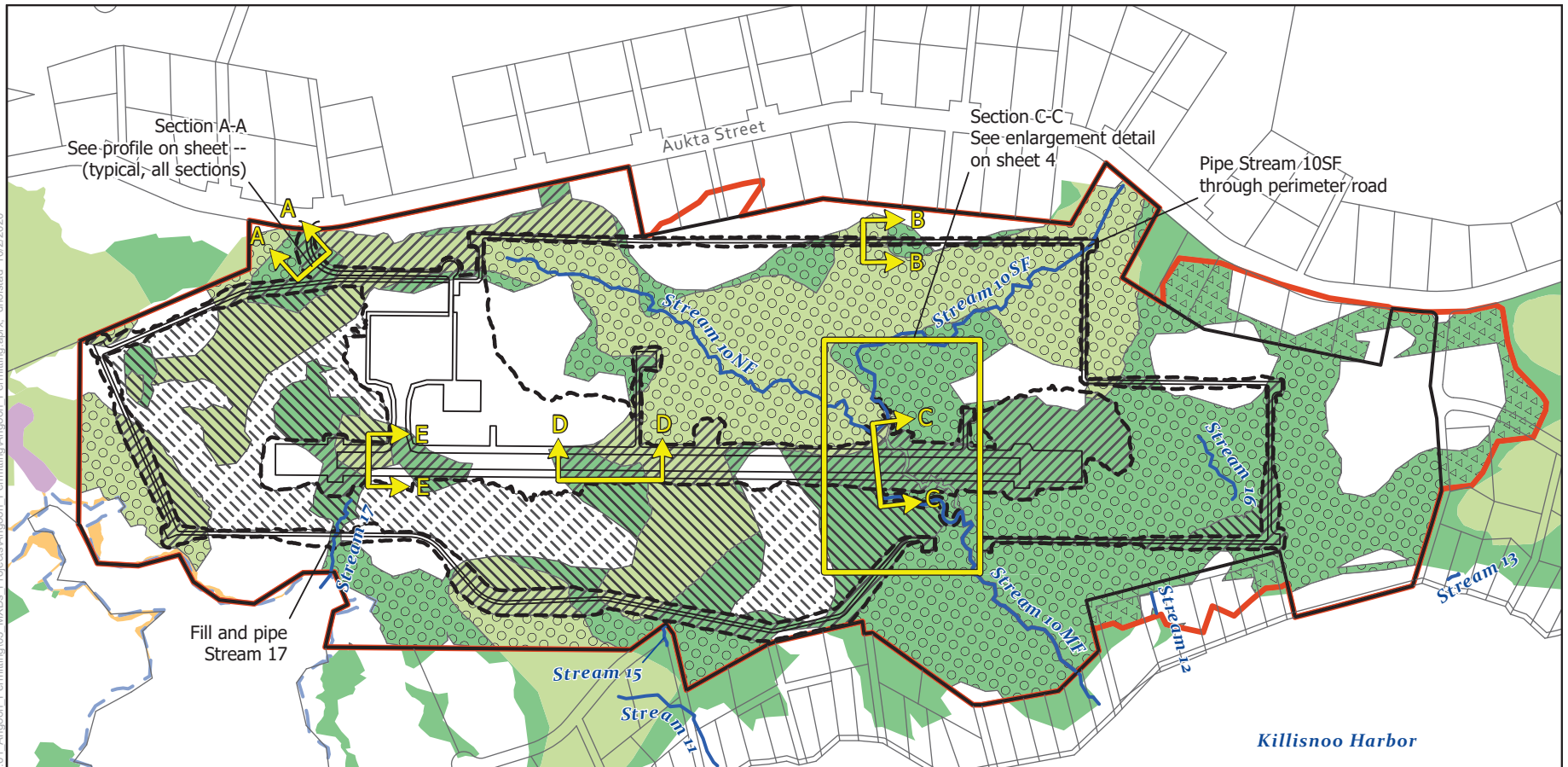
Applicant: Alaska Department of Transportation & Public Facilities  
 File No.: TBD  
 Waterway: Killisnoo Harbor  
 Proposed Activity: Airport and Perimeter Fence Road

**Existing and Proposed Conditions**  
 Sheet 2 of 6

Date 9/10/2020

POA-2009-01254, Favorite Bay

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- Taxlot
- Property Boundary
- Limits of cut/fill for airport components, access road, perimeter fence road
- Project Site

- Impact**
- Airport Components Fill = 40.40 ac (24.13 bog forest, 16.27 bog woodland): 415,291 cy [organics (muck, peat, woody debris), silt, clay, sand, gravel, rock (subbase, riprap), see add'l pages for more details]
  - Waste Disposal Fill = 29.66 ac (13.45 bog forest, 16.21 bog woodland): 46,635 cy [organics (muck, peat, woody debris), silt and clay]

- Waste Disposal Fill Not In Wetlands
- Alteration (tree removal, leave stumps) = 122.51 ac (66.17 bog forest, 46.56 bog woodland)
- Selective Logging = 9.78 ac

- Wetland Type**
- Bog Forest
  - Bog Woodland
  - Fen
  - Salt Marsh
  - Intertidal Area OHWL

Parts of Sec 5, 6, & 8, T51S, R68E, CM; 134°33'1"W, 57°28'34"N. Coordinate System: NAD 1983 StatePlane Alaska 1 FIPS 5001 Feet



Applicant: Alaska Department of Transportation & Public Facilities  
 File No.: TBD  
 Waterway: Killisnoo Harbor  
 Proposed Activity: Airport and Perimeter Fence Road

**Water Resource Impacts**  
 Sheet 3 of 6

Date 9/10/2020

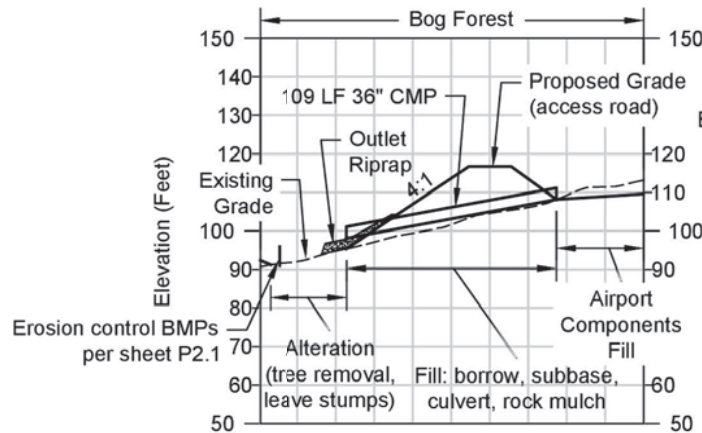
POA-2009-01254, Favorite Bay



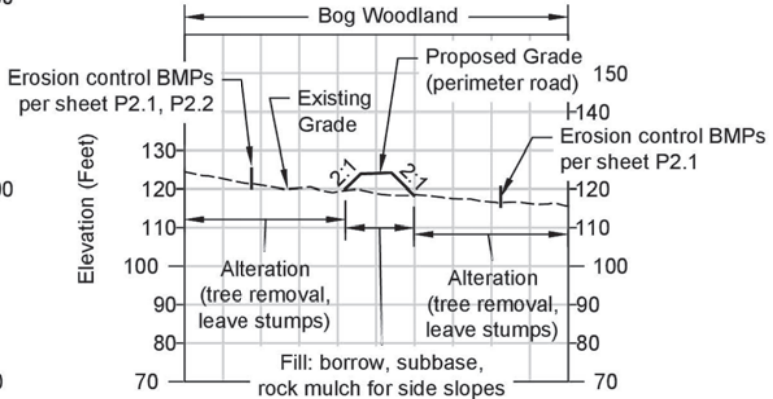




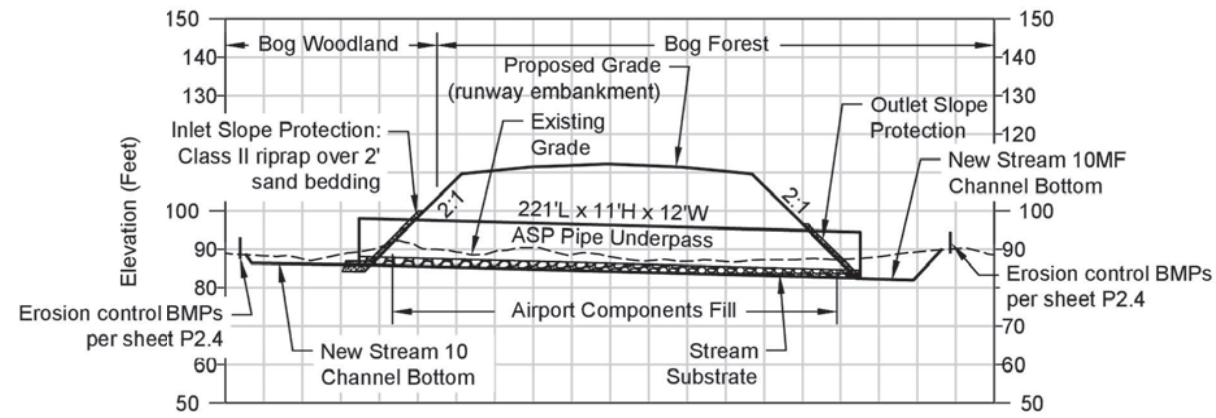
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Profile View of Section A-A



Profile View of Section B-B



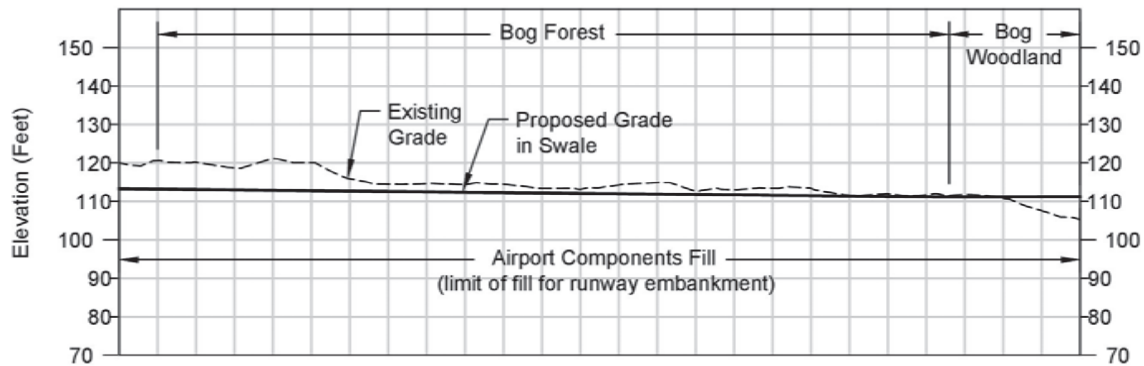
Profile View of Section C-C

Parts of Sec 5, 6, & 8, T51S, R68E, CM; 134°33'1"W, 57°28'34"N. Coordinate System: NAD 1983 StatePlane Alaska 1 FIPS 5001 Feet

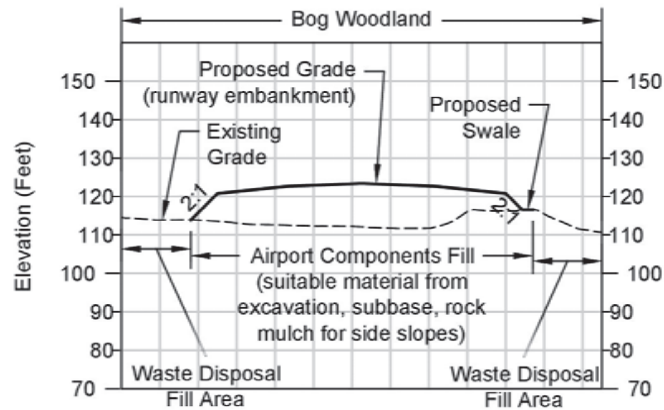
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 File No.: TBD  
 Waterway: Killisnoo Harbor  
 Proposed Activity: Airport and Perimeter Fence Road

Water Resource Impact Profiles  
 Sheet 5 of 6  
 Date 9/10/2020  
 POA-2009-01254, Favorite Bay

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Profile View of Section D-D



Profile View of Section E-E

Parts of Sec 5, 6, & 8, T51S, R68E, CM; 134°33'1"W,  
57°28'34"N. Coordinate System: NAD 1983  
StatePlane Alaska 1 FIPS 5001 Feet

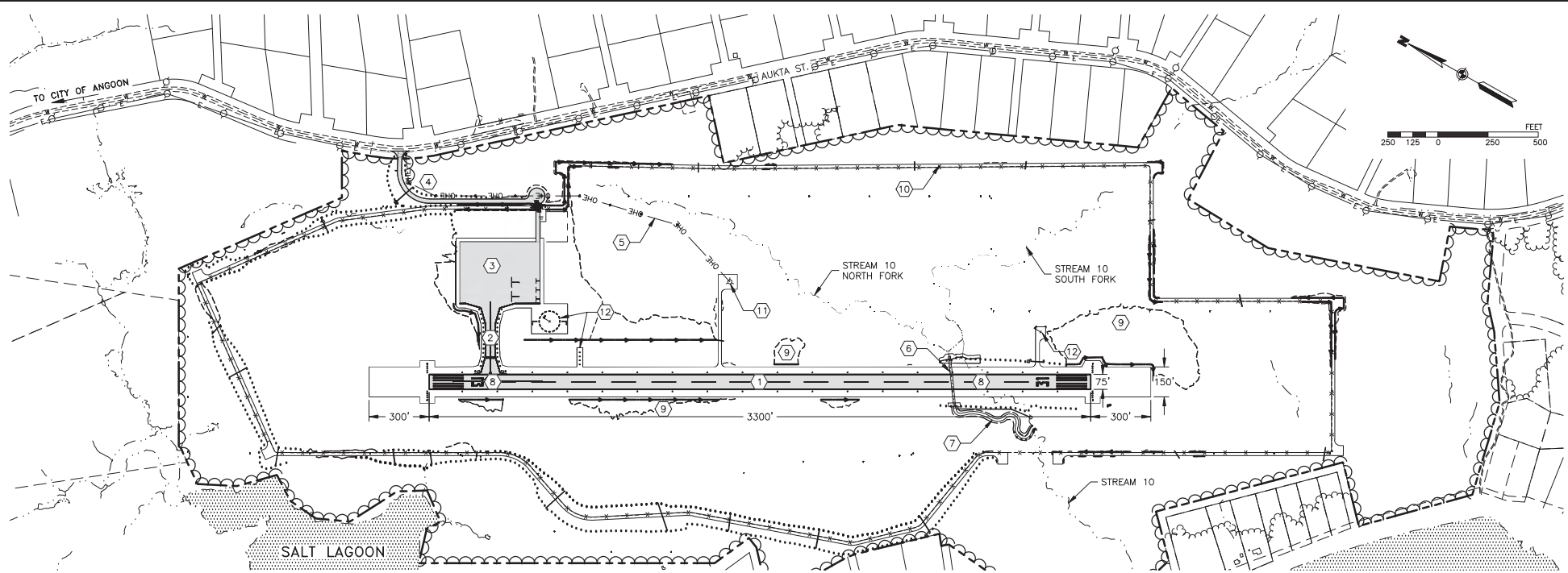
Applicant: Alaska Department of Transportation & Public Facilities  
File No.: TBD  
Waterway: Killisnoo Harbor  
Proposed Activity: Airport and Perimeter Fence Road

Water Resource Impact Profiles  
Sheet 6 of 6

Date 9/10/2020

POA-2009-01254, Favorite Bay

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 CHECKED BY: JMS

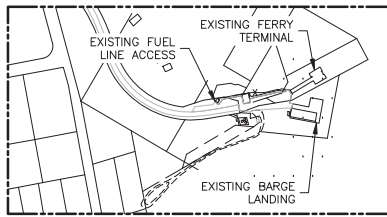


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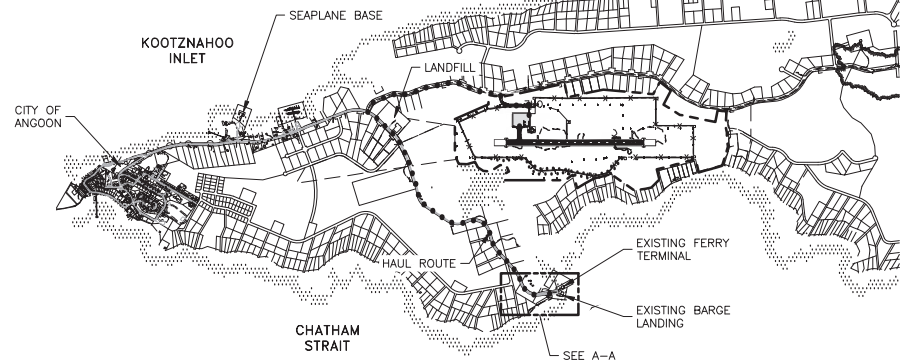
- ① PAVED RUNWAY (75'x3300') WITH EDGE LIGHTING, MARKINGS, AND GRAVEL SAFETY AREA (150'x3900')
- ② PAVED TAXIWAY (35'x363') WITH MARKINGS
- ③ PAVED APRON (300'x400') WITH MARKINGS, AIRCRAFT TIE DOWNS, AND GRAVEL LEASE AREA
- ④ PAVED ACCESS ROAD (20'x875')
- ⑤ POWER AND COMMUNICATION UTILITY EXTENSIONS
- ⑥ ASP PIPE UNDERPASS
- ⑦ STREAM REALIGNMENT
- ⑧ EMBANKMENT SURCHARGE
- ⑨ TERRAIN OBSTRUCTION REMOVAL
- ⑩ PERIMETER ROAD WITH WILDLIFE FENCE
- ⑪ AWOS PAD & ACCESS
- ⑫ AVIATION INFRASTRUCTURE (WINDCONES, SEGMENTED CIRCLE, PAPI)

**SHEET NOTES:**

1. PRIOR TO CONSTRUCTION, LOCATE AND VERIFY THE HORIZONTAL AND VERTICAL SURVEY CONTROL TO ENSURE IT HAS NOT BEEN DESTROYED OR DISTURBED.
2. OBTAIN UTILITY FIELD LOCATES PRIOR TO EXCAVATION IN ACCORDANCE WITH THE SPECIFICATIONS.



A-A



COMMUNITY OVERVIEW

POA-2009-01254, Favorite Bay

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NO.	DATE	REVISION

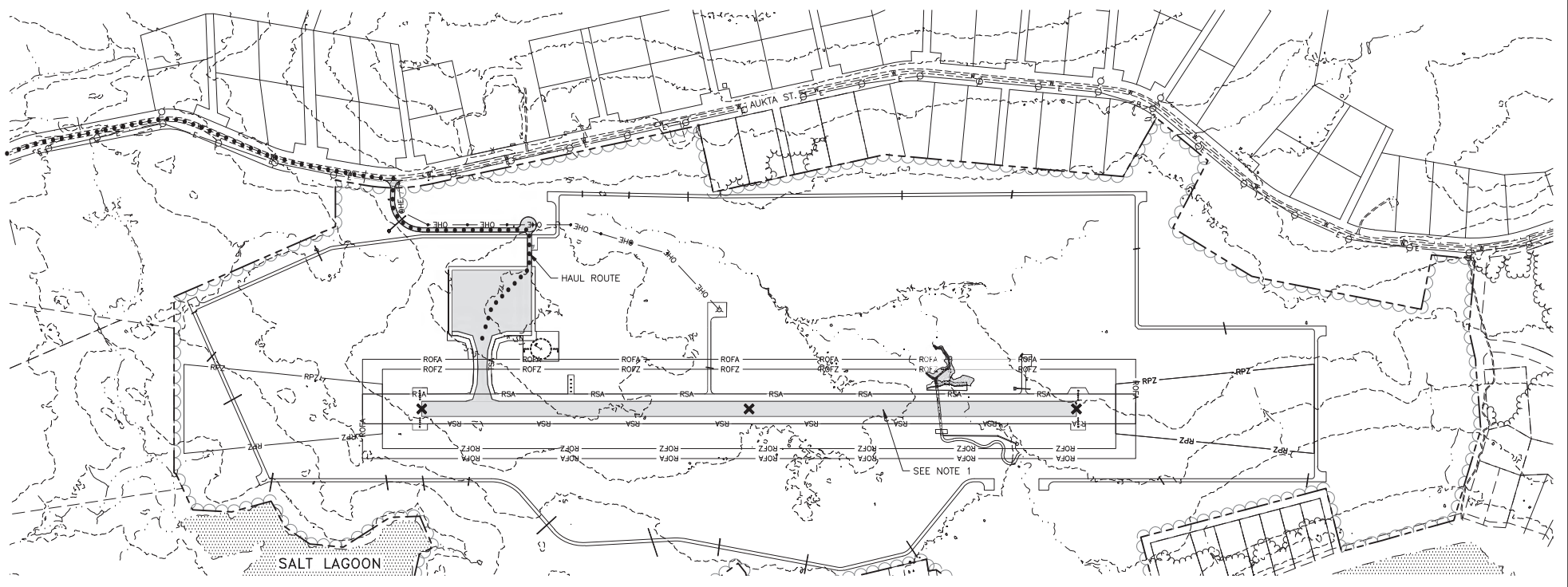
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**PDC, A RESPEC COMPANY**  
 9109 MENDENHALL MALL RD, STE. 4  
 JUNEAU, AK 99801  
 (907) 780-6060  
 Certificate of Authorization No: AECC605

**STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES - SOUTHCOAST REGION**  
 6850 GLACIER HIGHWAY  
 JUNEAU, ALASKA 99801  
 907-465-1763

**ANGOON AIRPORT**  
 ANGOON, ALASKA  
 AIRPORT IMPROVEMENTS  
 PROJECT No. SFAP100086  
 A.I.P. No. 3-02-XXXX-XXXX-20XX  
 PROJECT LAYOUT PLAN

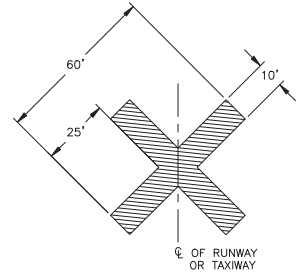
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 PROJECT NAME  
 POA-2009-01254-FAVORITE BAY  
 DRAWN BY  
 JMS  
 CHECKED BY  
 JMS  
 DESIGNED BY  
 JMS



**GENERAL SAFETY REQUIREMENTS:**

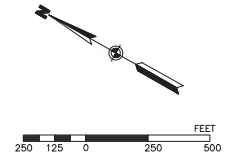
1. SEE APPENDIX D OF THE SPECIFICATIONS FOR THE CONSTRUCTION SAFETY AND PHASING PLAN (CSPP) REQUIREMENTS. THE CONTRACTOR SHALL COMPLY WITH THE SAFETY REQUIREMENTS IN THE CSPP. ALL SAFETY RELATED WORK SHALL BE SUBSIDIARY TO THE CONTRACT AND NO ADDITIONAL PAYMENT WILL BE MADE.
2. THE CONTRACTOR SHALL SUBMIT A SAFETY PLAN COMPLIANCE DOCUMENT (SPCD), PER FAA AC 150/5370-2G, TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO ISSUANCE OF A NOTICE TO PROCEED. IF THE CONSTRUCTION PLAN DIFFERS FROM WHAT IS SHOWN OR IS SUBSEQUENT CHANGES ARE MADE, SUBMIT A REVISION TO THE ENGINEER FOR REVIEW AND APPROVAL.



**1**  
 A5.0 RUNWAY CLOSURE MARKER  
 SCALE: NOT TO SCALE

**RUNWAY CLOSURE NOTES:**

1. ONCE RUNWAY CONSTRUCTION STARTS CONTRACTOR SHALL PROVIDE RUNWAY CLOSURE MARKERS TO INDICATE THE AREA IS NOT SAFE FOR LANDING. MARKERS SHALL BE IN ACCORDANCE WITH SPECIFICATION P-671.
2. THE CONTRACTOR SHALL MAINTAIN THE CLOSURE MARKERS UNTIL THE AIRPORT IS OPEN TO AIRCRAFT.



POA-2009-01254, Favorite Bay

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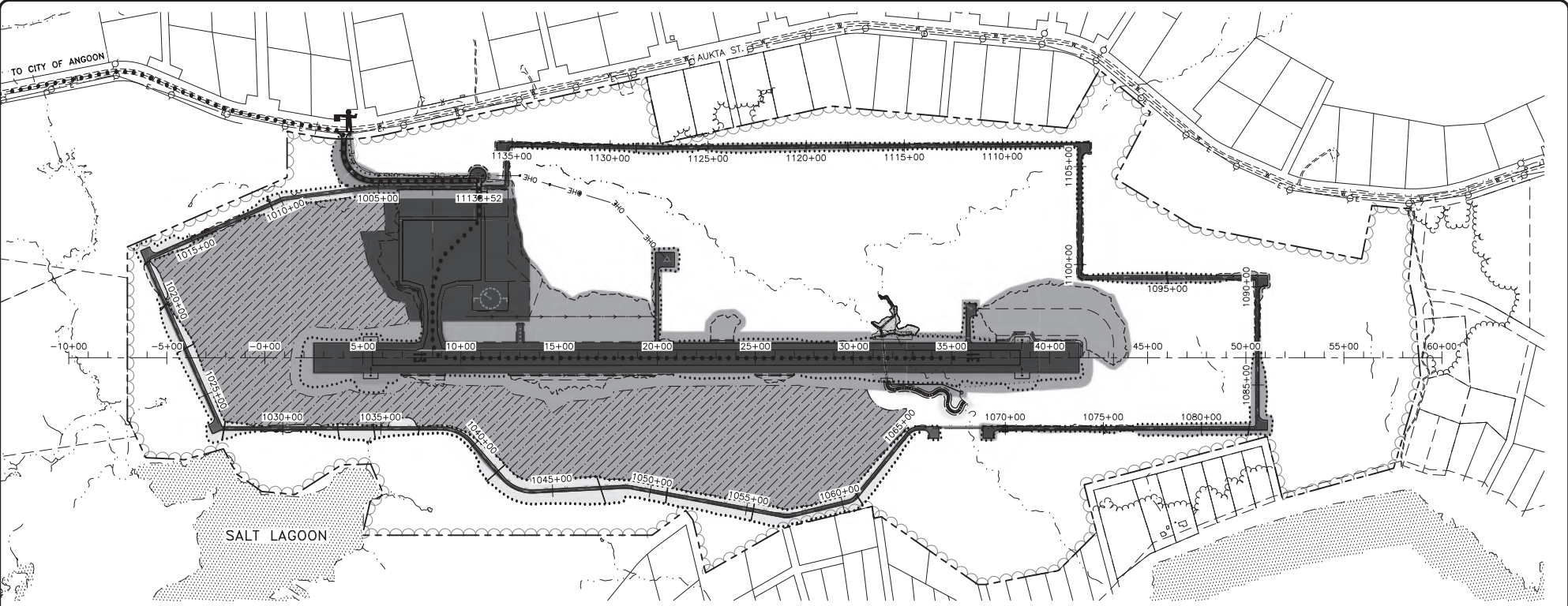
**STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES - SOUTHWEST REGION**  
 6860 GLACIER HIGHWAY  
 JUNEAU, ALASKA 99801  
 907-465-1763

**ANGOON AIRPORT**  
 ANGOON, ALASKA  
 AIRPORT IMPROVEMENTS  
 PROJECT No. SFAP100086  
 A.I.P. No. 3-02-XXXX-XXX-20XX  
 CONSTRUCTION SAFETY  
 PHASING PLAN

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- LEGEND:**
- PHASE 1
  - PHASE 2
  - PHASE 3
  - CONTRACTOR WASTE AREA
  - CONTRACTOR HAUL ROUTE
  - FLAGGER

**SEQUENCE OF WORK NOTES:**

THIS SEQUENCE REPRESENTS ONE WAY THE PROJECT COULD BE CONSTRUCTED. HOWEVER, THE CONTRACTOR SHALL BE RESPONSIBLE FOR DEVELOPING THEIR OWN SEQUENCE AND SCHEDULE TO MEET MILESTONE REQUIREMENTS AND PROJECT COMPLETION DATE. SEQUENCE AND SCHEDULE SHALL BE APPROVED BY THE ENGINEER. THE SEQUENCE SHALL BE COORDINATED WITHIN THIS PROJECT PLANS, SPECIFICATIONS, STORM WATER POLLUTION PREVENTION PLAN (SWPPP) MEASURES AND OVERALL CONSTRUCTION SCHEDULE. SUBMIT SEQUENCING PLANS FOR APPROVAL FIVE BUSINESS DAYS BEFORE SWPPP SUBMITTAL AND 10 DAYS BEFORE THE PRE-CONSTRUCTION CONFERENCE. CONSTRUCTION SCHEDULE AND SEQUENCE SHALL PROVIDE SUFFICIENT DETAIL TO ADDRESS REQUIRED SUBMITTALS, REVIEW PERIODS, PROCUREMENT OF MATERIALS, CONSTRUCTION WORK, AND FAA COORDINATION REQUIREMENTS ASSOCIATED WITH ALL ITEMS OF WORK. PROVIDE UPDATES FOR APPROVAL BY THE ENGINEER AS WORK PROGRESSES. DEVIATIONS FROM THE APPROVED SCHEDULE REQUIRE APPROVAL BY THE ENGINEER.

GRUBBING WITHIN THE EMBANKMENT LIMITS SHALL OCCUR PER THE REQUIREMENTS IN SECTION P-151 OF THE SPECIFICATIONS.

**GENERAL SEQUENCE OF WORK:**

PHASE 1:  
 ESTABLISH SITE ACCESS, DEVELOP/PREPARE MATERIAL SOURCE(S) AND WASTE DISPOSAL AREAS, CONSTRUCT AIRPORT ACCESS ROAD, CONSTRUCT PERIMETER ROAD TO STA. 1066+62, CONSTRUCT ASP PIPE UNDERPASS, CONSTRUCT STREAM CHANNEL REALIGNMENT, CONSTRUCT SURCHARGE 1, AND CONSTRUCT SURCHARGE 2.

PHASE 2:  
 GRUBBING AND WASTE DISPOSAL, EXCAVATION AND EMBANKMENT, RE-GRADE EXPOSED ROCK SURFACES, CONSTRUCT PERIMETER ROAD FROM STA. 1068+87 TO END, CONSTRUCT ELECTRIC LINE EXTENSION, REMOVE SURCHARGE 1, AND REMOVE SURCHARGE 2.

PHASE 3:  
 PROCESS AGGREGATES; INSTALL ELECTRICAL CONDUIT; PLACE SUBBASE, CRUSHED AGGREGATE BASE COURSE, AGGREGATE SURFACING MATERIAL, AND HOT MIX ASPHALT; INSTALL MARKINGS AND TIE-DOWNS; INSTALL AIRPORT LIGHTING, EQUIPMENT, AND NAVAIDS; AND INSTALL PERIMETER FENCE AND GATES.

**ESTIMATED PROJECT MILESTONES:**

M	DATE	DESCRIPTION
M0	MARCH 2021	DEPARTMENT ISSUES NTP.
M1	MAY 2021	ASP PIPE UNDERPASS AND STREAM CHANNEL REALIGNMENT COMPLETE.
M2	SEPT. 2021	MATERIAL SOURCE(S) AND WASTE DISPOSAL AREAS DEVELOPED.
M3	DEC. 2021	LAST DAY FOR SURCHARGE CONSTRUCTION. BEGIN AUTOMATED MONITORING.
M4	MAY 2022	COMPLETE PERIMETER ROAD EMBANKMENT.
M5	OCTOBER 2022	END MONITORING. BEGIN SURCHARGE REMOVAL.
M6	DEC. 2022	COMPLETE RUNWAY AND TAXIWAY EMBANKMENT.
M7	JULY 2023	SURFACING, PAVING, AND MARKING COMPLETE.
M8	SEPT. 2023	CONSTRUCTION AND TESTING OF FAA NAVAIDS COMPLETE. REQUEST FAA FLIGHT CHECK.
M9	OCTOBER 2023	30 DAYS FOR COMPLETION OF FAA FLIGHT CHECK.

POA-2009-01254, Favorite Bay

NO.	DATE	REVISION

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**PDC, A RESPEC COMPANY**  
 9109 MENDENHALL MALL RD, STE. 4  
 JUNEAU, AK 99801  
 (907) 780-6060

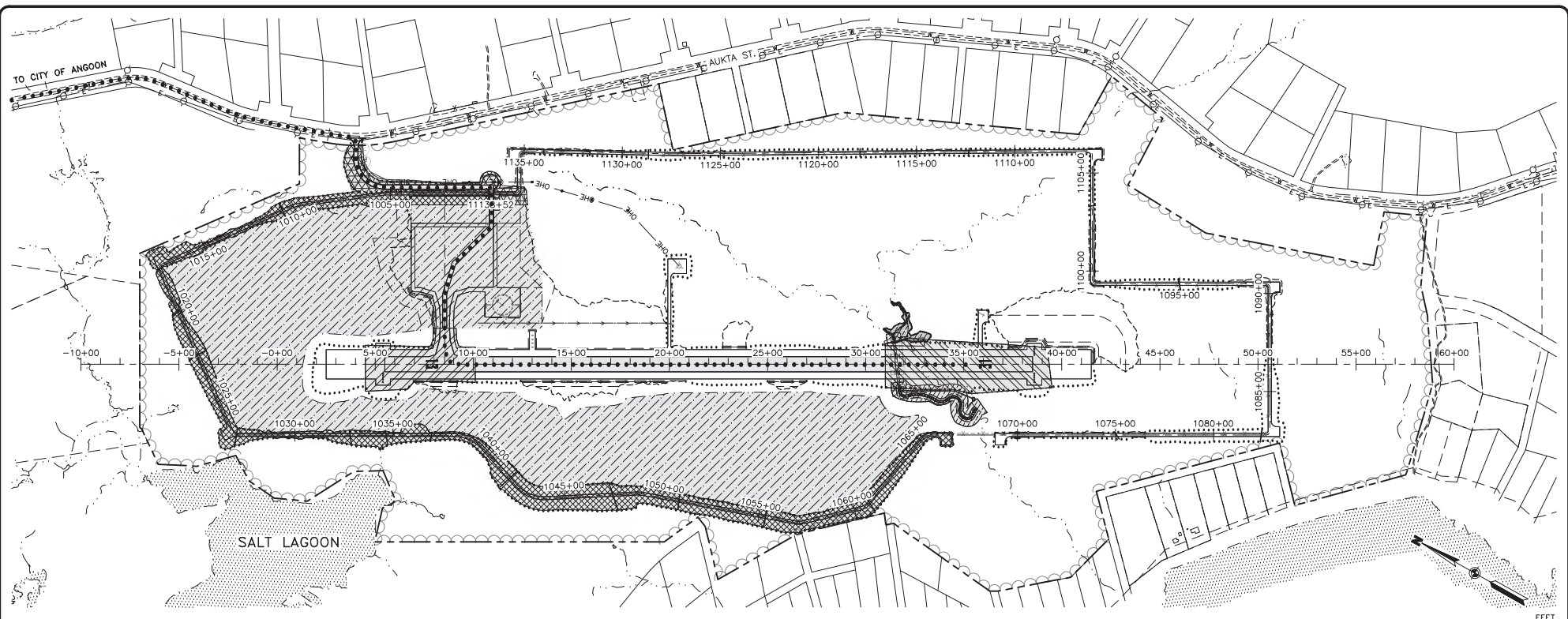
Certificate of Authorization No: AECC605

STATE OF ALASKA DEPARTMENT OF TRANSPORTATION  
 & PUBLIC FACILITIES - SOUTHCOAST REGION  
 6850 GLACIER HIGHWAY  
 JUNEAU, ALASKA 99801  
 907-465-1763

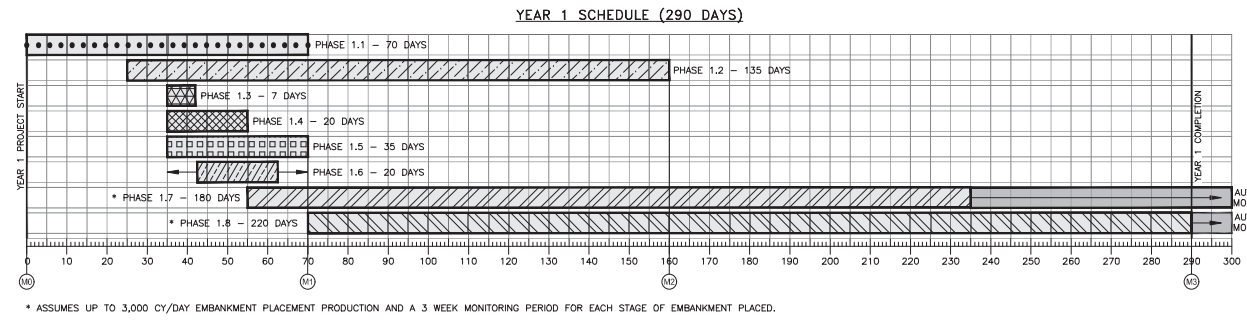
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 ANGOON, ALASKA  
 AIRPORT IMPROVEMENTS  
 PROJECT No. SFAP100086  
 A.I.P. No. 3-02-XXXX-XXX-20XX  
 CONSTRUCTION SEQUENCING  
 PLAN OVERALL

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- LEGEND:**
- PHASE 1.1
  - PHASE 1.2
  - PHASE 1.3
  - PHASE 1.4
  - PHASE 1.5
  - PHASE 1.6
  - PHASE 1.7
  - PHASE 1.8
  - CONTRACTOR HAUL ROUTE
  - FLAGGER



- PHASE 1 SEQUENCE OF WORK:**
- 1.1 ESTABLISH SITE ACCESS TO STAGING AREAS, SURCHARGE LOCATIONS, AND MATERIAL SOURCES.
  - 1.2 DEVELOP/PREPARE MATERIAL SOURCE(S) AND WASTE DISPOSAL AREAS.
  - 1.3 CONSTRUCT AIRPORT ACCESS ROAD TO BOTTOM OF SUBBASE.
  - 1.4 CONSTRUCT PERIMETER ROAD TO BOTTOM OF SUBBASE TO STA. 1066+62.
  - 1.5 CONSTRUCT ASP PIPE UNDERPASS. CONSTRUCT RUNWAY EMBANKMENT TO BOTTOM OF SUBBASE FROM STA. 31+25 TO 31+75.
  - 1.6 CONSTRUCT STREAM CHANNEL REALIGNMENT. COMPLETE STREAM CHANNEL CONSTRUCTION. INSTALL SUBSTRATE. TEST STREAM CHANNEL.
  - 1.7 CONSTRUCT SURCHARGE 1. CONSTRUCT RUNWAY AND TAXIWAY EMBANKMENTS TO BOTTOM OF SUBBASE AND PLACE SURCHARGE. INSTALL INSTRUMENTATION.
  - 1.8 CONSTRUCT SURCHARGE 2. CONSTRUCT RUNWAY EMBANKMENTS TO BOTTOM OF SUBBASE AND PLACE SURCHARGE. INSTALL INSTRUMENTATION.

POA-2009-01254, Favorite Bay

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NO.	DATE	REVISION

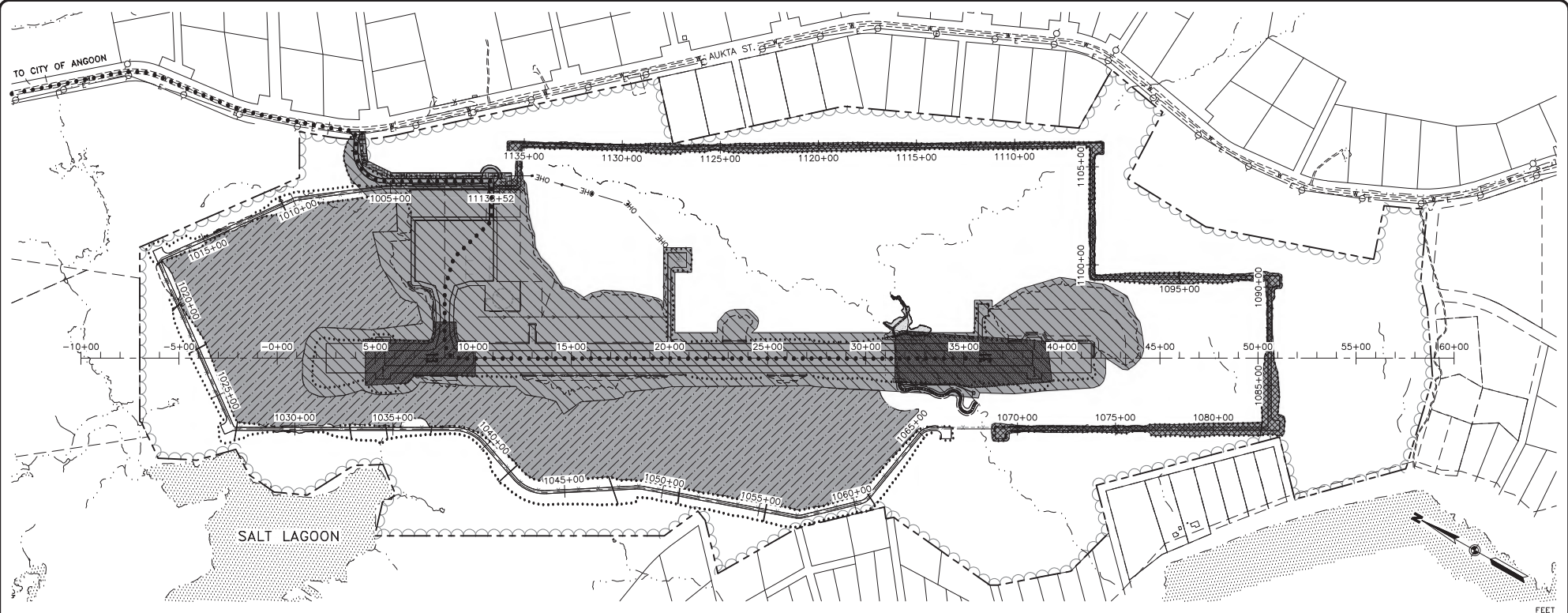
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**PDC, A RESPEC COMPANY**  
 9109 MENDENHALL MALL RD, STE. 4  
 JUNEAU, AK 99801  
 (907) 780-6060  
 Certificate of Authorization No: AECC605

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 6850 GLACIER HIGHWAY  
 JUNEAU, ALASKA 99801  
 907-465-1763

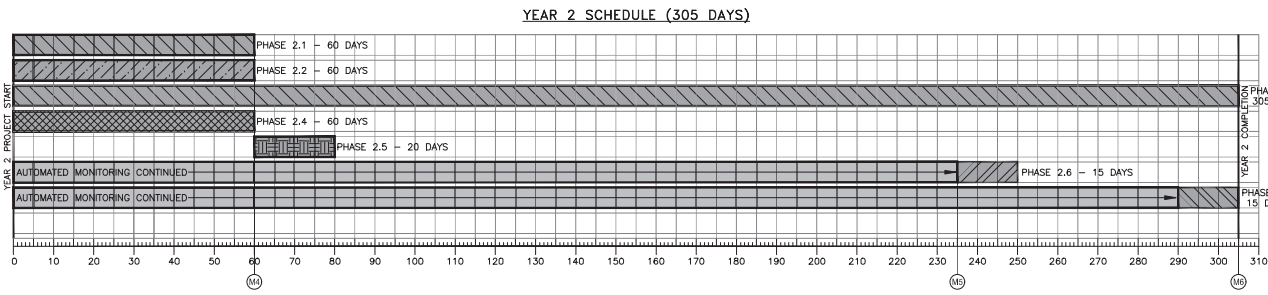
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 ANGOON, ALASKA  
 AIRPORT IMPROVEMENTS  
 PROJECT No. SFAP1000986  
 A.I.P. No. 3-02-XXXX-XXXX-XXXX  
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- LEGEND:**
- PHASE 2.1
  - PHASE 2.2
  - PHASE 2.3
  - PHASE 2.4
  - PHASE 2.5
  - PHASE 2.6
  - PHASE 2.7
  - CONTRACTOR HAUL ROUTE
  - FLAGGER



- PHASE 2 SEQUENCING OF WORK:**
- 2.1 GRUBBING.
  - 2.2 WASTE DISPOSAL.
  - 2.3 EXCAVATION AND EMBANKMENT, RE-GRADE EXPOSED ROCK SURFACES.
  - 2.4 CONSTRUCT PERIMETER ROAD FROM STA. 1068+87 TO END.
  - 2.5 CONSTRUCT ELECTRIC LINE EXTENSION. INSTALL UNDERGROUND INFRASTRUCTURE.
  - 2.6 REMOVE SURCHARGE 1. REMOVE EXCESS SURCHARGE EMBANKMENTS TO BOTTOM OF SUBBASE.
  - 2.7 REMOVE SURCHARGE 2. REMOVE EXCESS SURCHARGE EMBANKMENTS TO BOTTOM OF SUBBASE.

POA-2009-01254, Favorite Bay

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NO.	DATE	REVISION

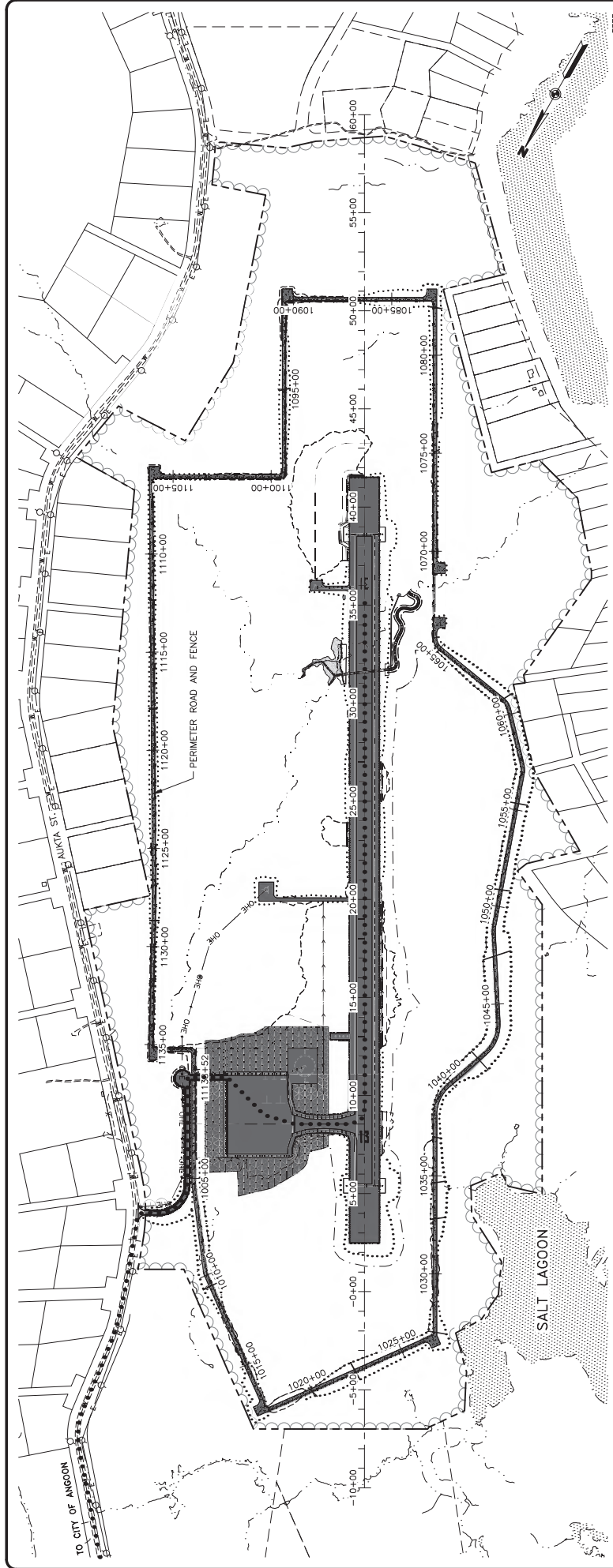
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 Certificate of Authorization No: AECC605

**STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES - SOUTHWEST REGION**  
 6850 GLACIER HIGHWAY  
 JUNEAU, ALASKA 99801  
 907-465-1763

**ANGOOON AIRPORT**  
 ANGOON, ALASKA  
 AIRPORT IMPROVEMENTS  
 PROJECT No. SFAP100096  
 A.I.P. No. 3-02-XXXX-XXX-20XX  
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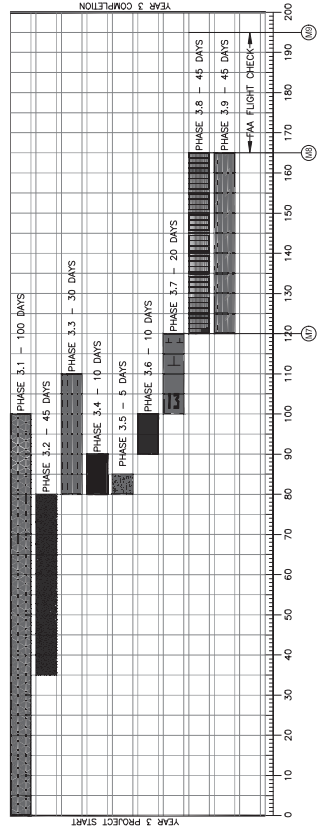




**PHASE 3 SEQUENCING OF WORK:**

- ③ PROCESS AGGREGATES.
- ④ PLACE SUBBASE.
- ⑤ INSTALL ELECTRICAL CONDUIT.
- ⑥ PLACE CRUSHED AGGREGATE BASE COURSE.
- ⑦ PLACE AGGREGATE SURFACING MATERIAL.
- ⑧ PLACE HOT MIX ASPHALT.
- ⑨ INSTALL MARKINGS AND TIE-DOWNS.
- ⑩ INSTALL AIRPORT LIGHTING, EQUIPMENT, AND NAVAIDS. WINDCONES, AWOS, ROTATING BEACON, PAPI, AND RELS.
- ⑪ INSTALL PERIMETER FENCE AND GATES.

**YEAR 3 SCHEDULE (200 DAYS)**



- LEGEND:**
- PHASE 3.1
  - PHASE 3.2
  - PHASE 3.3
  - PHASE 3.4
  - PHASE 3.5
  - PHASE 3.6
  - PHASE 3.7
  - PHASE 3.8
  - PHASE 3.9
  - CONTRACTOR HAUL ROUTE
  - FLAGGER

DATE: 7/31/20  
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 PROJECT: ANGOON AIRPORT  
 A.I.P. No. 3-02-XXXX-200X  
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**ANGOOK AIRPORT**  
 ANGOON, ALASKA  
 STATE OF ALASKA DEPARTMENT OF TRANSPORTATION  
 & PUBLIC SAFETY REGION  
 JUNEAU, ALASKA 99801  
 907-465-1763

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 9109 MIDLAND BLVD., STE. 4  
 JUNEAU, AK 99801  
 (907) 760-0060

NO.	DATE	REVISION

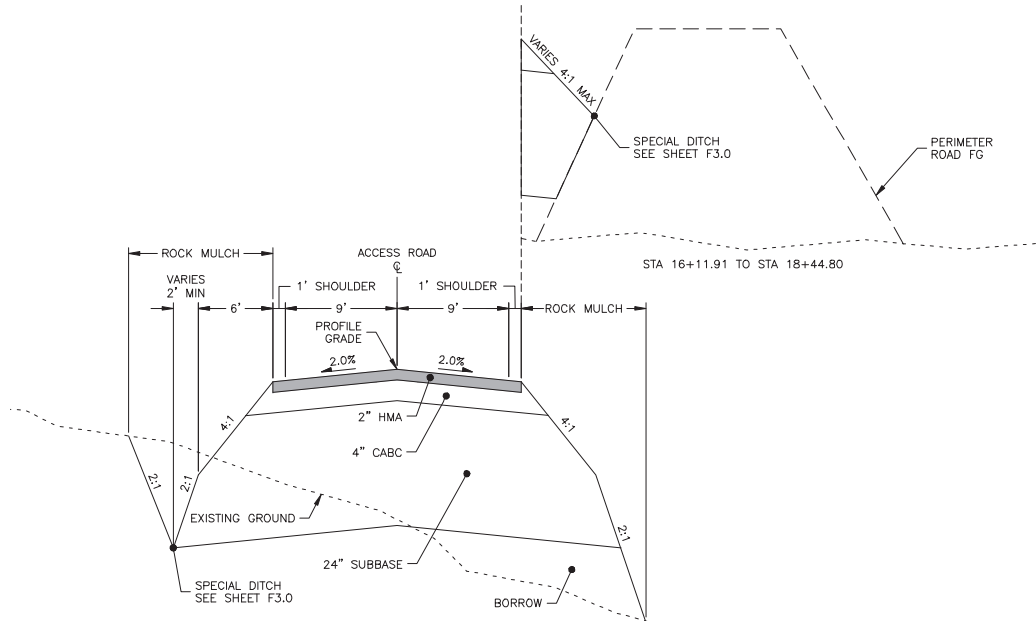
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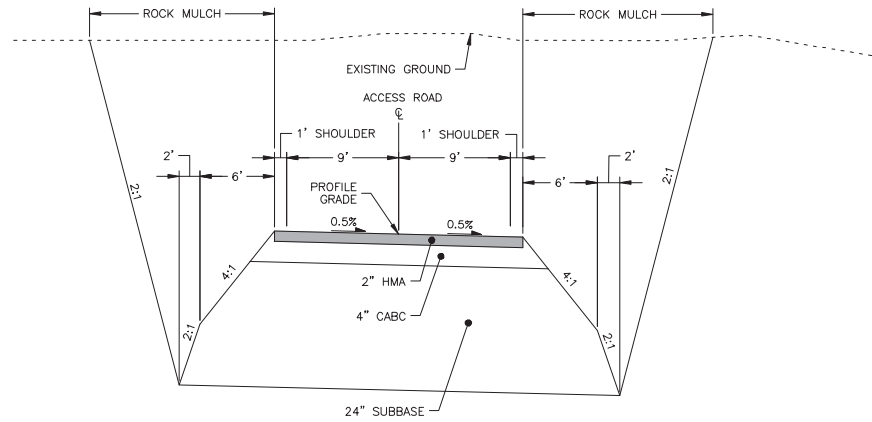




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**1** AIRPORT ACCESS ROAD (STA 10+00 TO 18+91.93)  
 B1.2 SCALE: NOT TO SCALE



**2** AIRPORT ACCESS ROAD (STA 18+91.93 TO 20+64)  
 B1.2 SCALE: NOT TO SCALE

POA-2009-01254, Favorite Bay

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STATE OF ALASKA DEPARTMENT OF TRANSPORTATION  
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 6850 GLACIER HIGHWAY  
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 907-465-1763

**ANGOON AIRPORT**  
 ANGOON, ALASKA  
 AIRPORT IMPROVEMENTS  
 PROJECT No. SFAP100086  
 A.I.P. No. 3-02-XXXX-XXXX-20XX  
 TYPICAL SECTIONS (3 OF 6)

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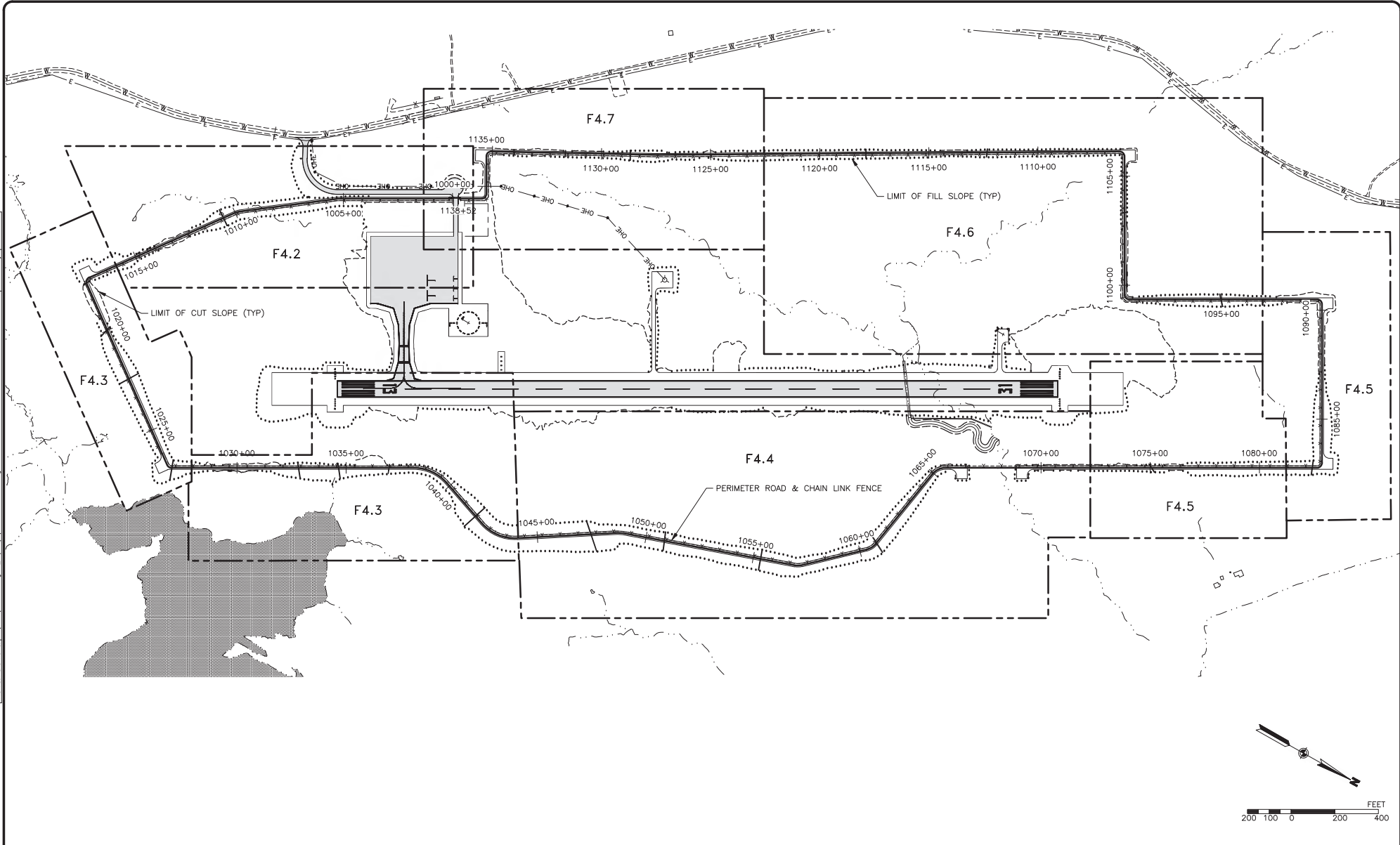








Date: 7/31/20  
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POA-2009-01254, Favorite Bay

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NO.	DATE	REVISION

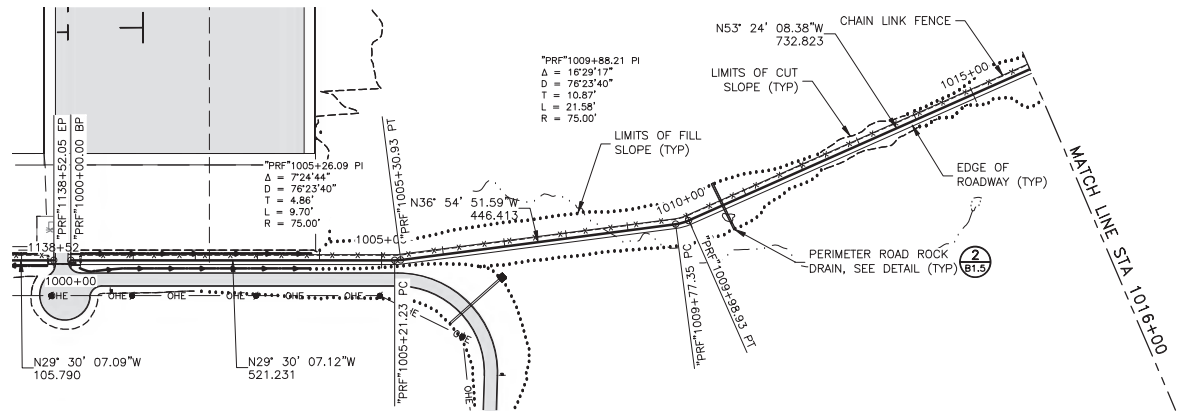
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 (907) 780-6060  
 Certificate of Authorization No: AECC605

**STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES - SOUTHCOAST REGION**  
 6860 GLACIER HIGHWAY  
 JUNEAU, ALASKA 99801  
 907-465-1763

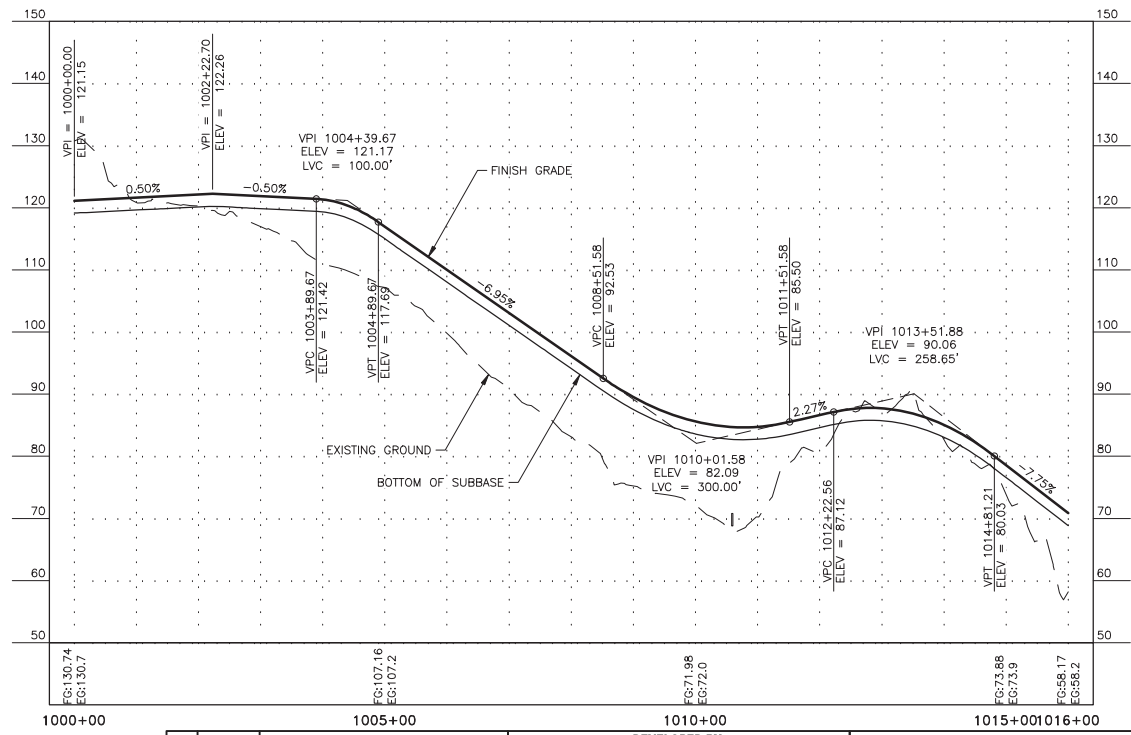
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 ANGOON, ALASKA  
 AIRPORT IMPROVEMENTS  
 PROJECT No. SFAP100086  
 A.I.P. No. 3-02-XXXX-XXXX-20XX  
 PERIMETER FENCE ROAD  
 KEY MAP

DATE: 7/31/20  
 SHEET: **F4.1** OF 101  
 AS-BUILT SHEET:

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 Drawn By: JAM/RSB  
 Checked By: JAM/RSB  
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**NOTES:**  
 1. PERIMETER ROAD ROCK DRAIN LOCATIONS TO BE SET AT LOCATIONS OF EXISTING DRAINAGE PATHWAYS. ENGINEER SHALL ADJUST FINAL PLACEMENT IN THE FIELD.



POA-2009-01254, Favorite Bay

**95% PS&E**

NO.	DATE	REVISION

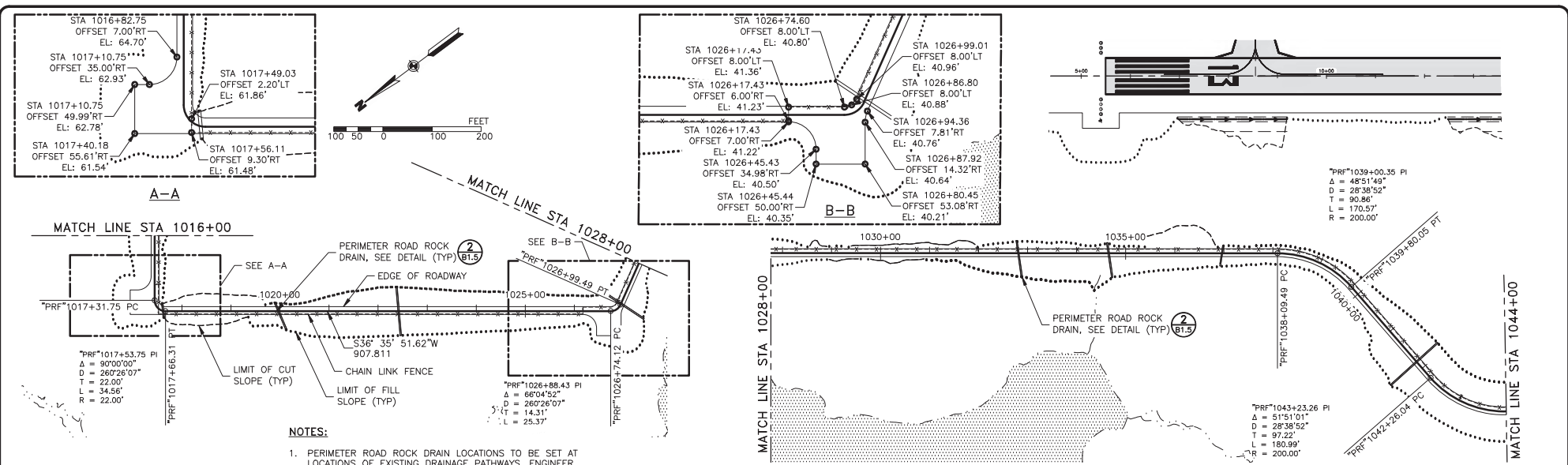
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**PDC, A RESPEC COMPANY**  
 9109 MENDENHALL MALL RD, STE. 4  
 JUNEAU, AK 99801  
 (907) 780-6060  
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 907-465-1763

**ANGOON AIRPORT**  
 ANGOON, ALASKA  
 AIRPORT IMPROVEMENTS  
 PROJECT No. SFAP100086  
 A.L.P. No. 3-02-XXXX-XXX-200X  
 PERIMETER FENCE ROAD  
 PLAN & PROFILE (1 OF 6)

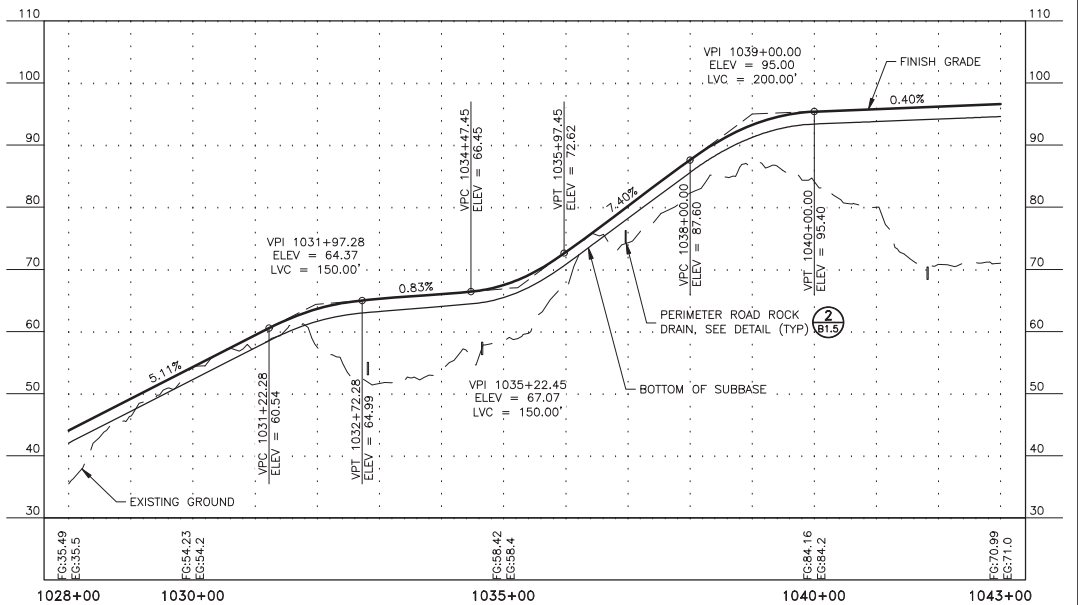
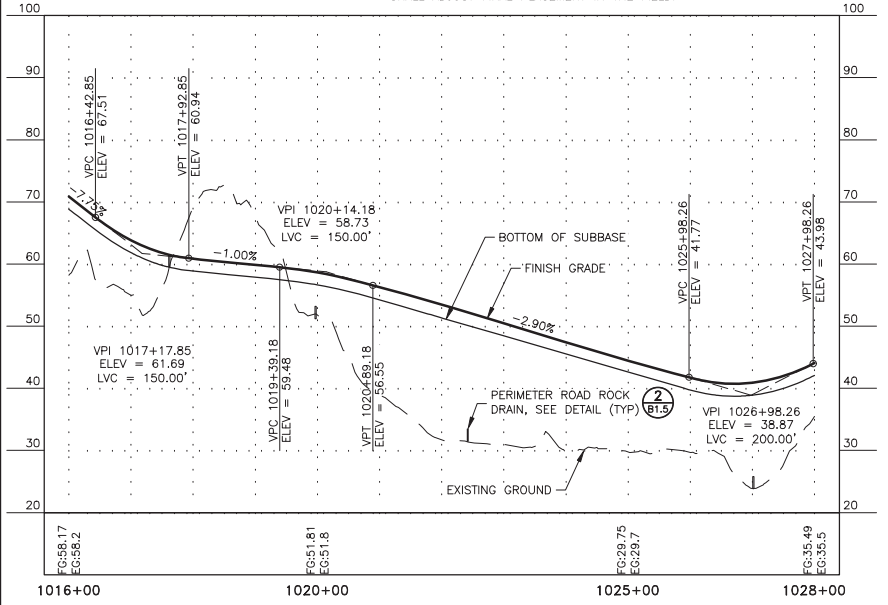
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**NOTES:**

- PERIMETER ROAD ROCK DRAIN LOCATIONS TO BE SET AT LOCATIONS OF EXISTING DRAINAGE PATHWAYS. ENGINEER SHALL ADJUST FINAL PLACEMENT IN THE FIELD.



POA-2009-01254, Favorite Bay

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NO.	DATE	REVISION

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**6860 GLACIER HIGHWAY**  
 JUNEAU, ALASKA 99801  
 907-465-1763

**ANGOOD AIRPORT**  
 ANGOOD, ALASKA  
 AIRPORT IMPROVEMENTS  
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 PLAN & PROFILE (2 OF 6)

DATE: 7/31/20  
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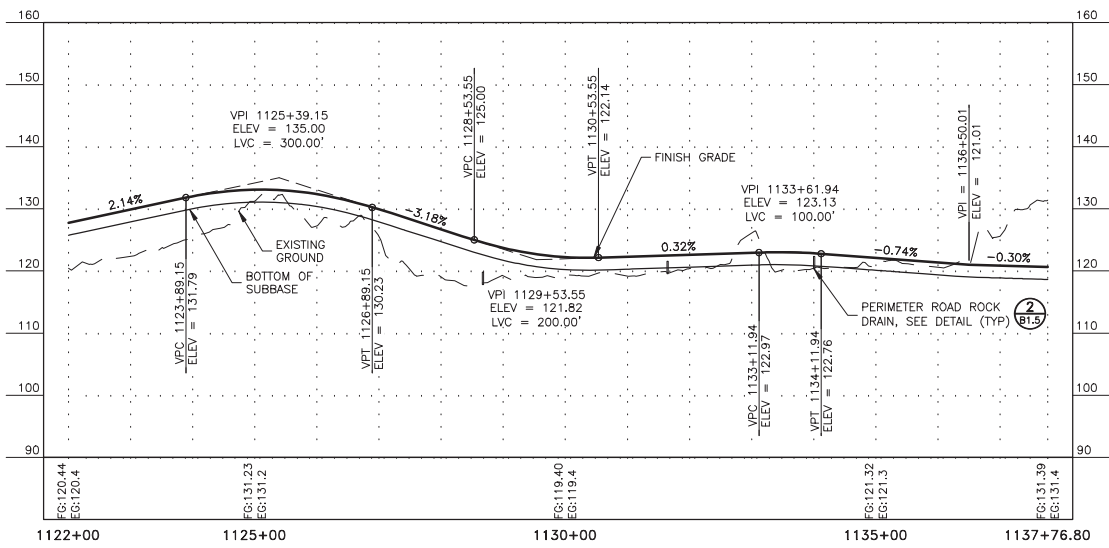
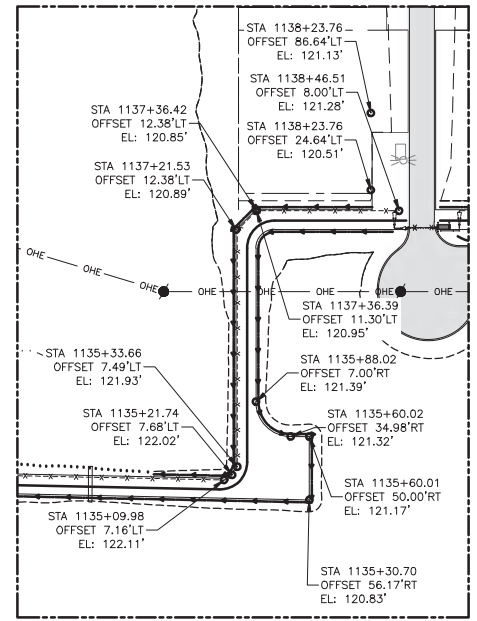
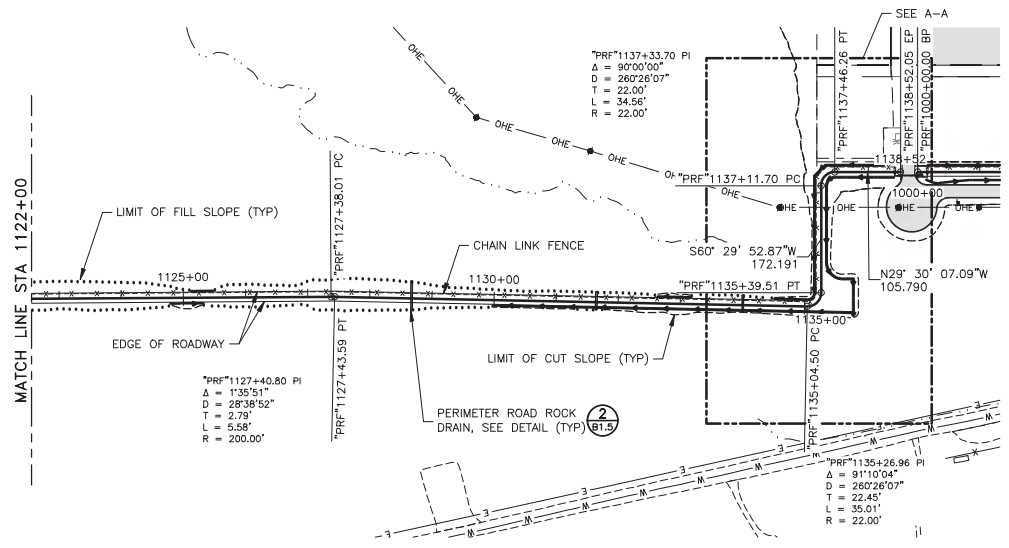




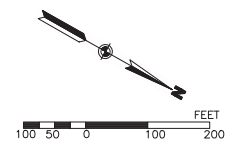




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**NOTES:**  
 1. PERIMETER ROAD ROCK DRAIN LOCATIONS TO BE SET AT LOCATIONS OF EXISTING DRAINAGE PATHWAYS. ENGINEER SHALL ADJUST FINAL PLACEMENT IN THE FIELD.



POA-2009-01254, Favorite Bay

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NO.	DATE	REVISION

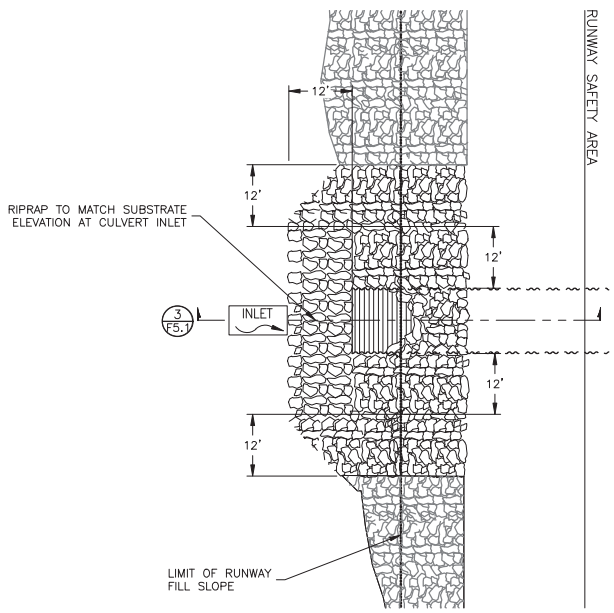
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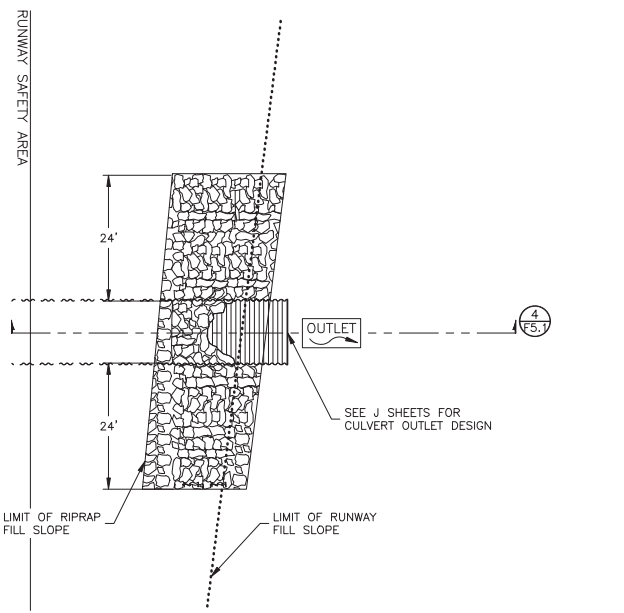
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 PLAN & PROFILE (6 OF 6)

DATE: 7/31/20  
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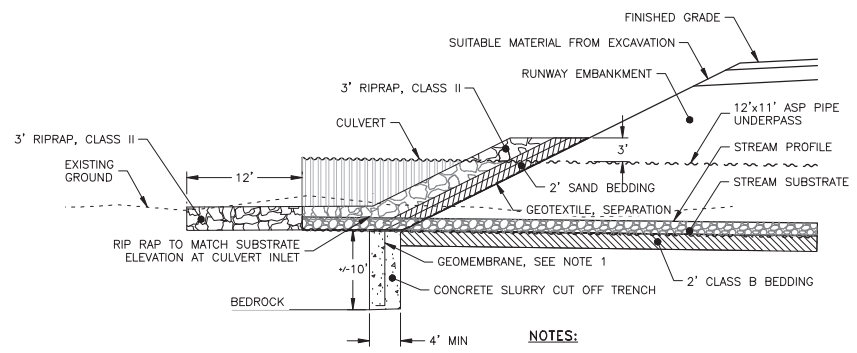
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 Checked By: JMS



**1 INLET PROTECTION PLAN VIEW**  
 F5.1 SCALE: NOT TO SCALE

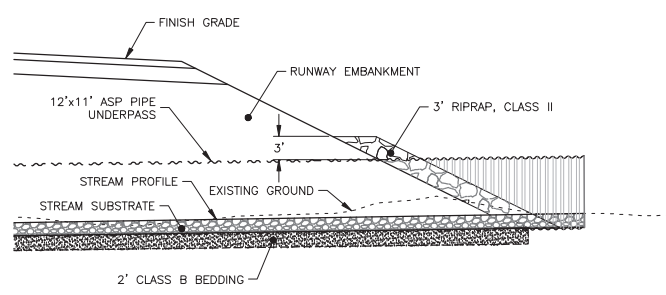


**2 OUTLET PROTECTION PLAN VIEW**  
 F5.1 SCALE: NOT TO SCALE



**NOTES:**  
 1. USE PREFABRICATED GEOMEMBRANE PIPE BOOT FOR PIPE PENETRATION. USE BANDING TO SECURE THE PIPE BOOT TO THE PIPE IN ACCORDANCE THE MANUFACTURES RECOMMENDATIONS.

**3 INLET PROTECTION ELEVATION DETAIL**  
 F5.1 SCALE: NOT TO SCALE



**4 OUTLET PROTECTION ELEVATION DETAIL**  
 F5.1 SCALE: NOT TO SCALE

POA-2009-01254, Favorite Bay

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 6860 GLACIER HIGHWAY  
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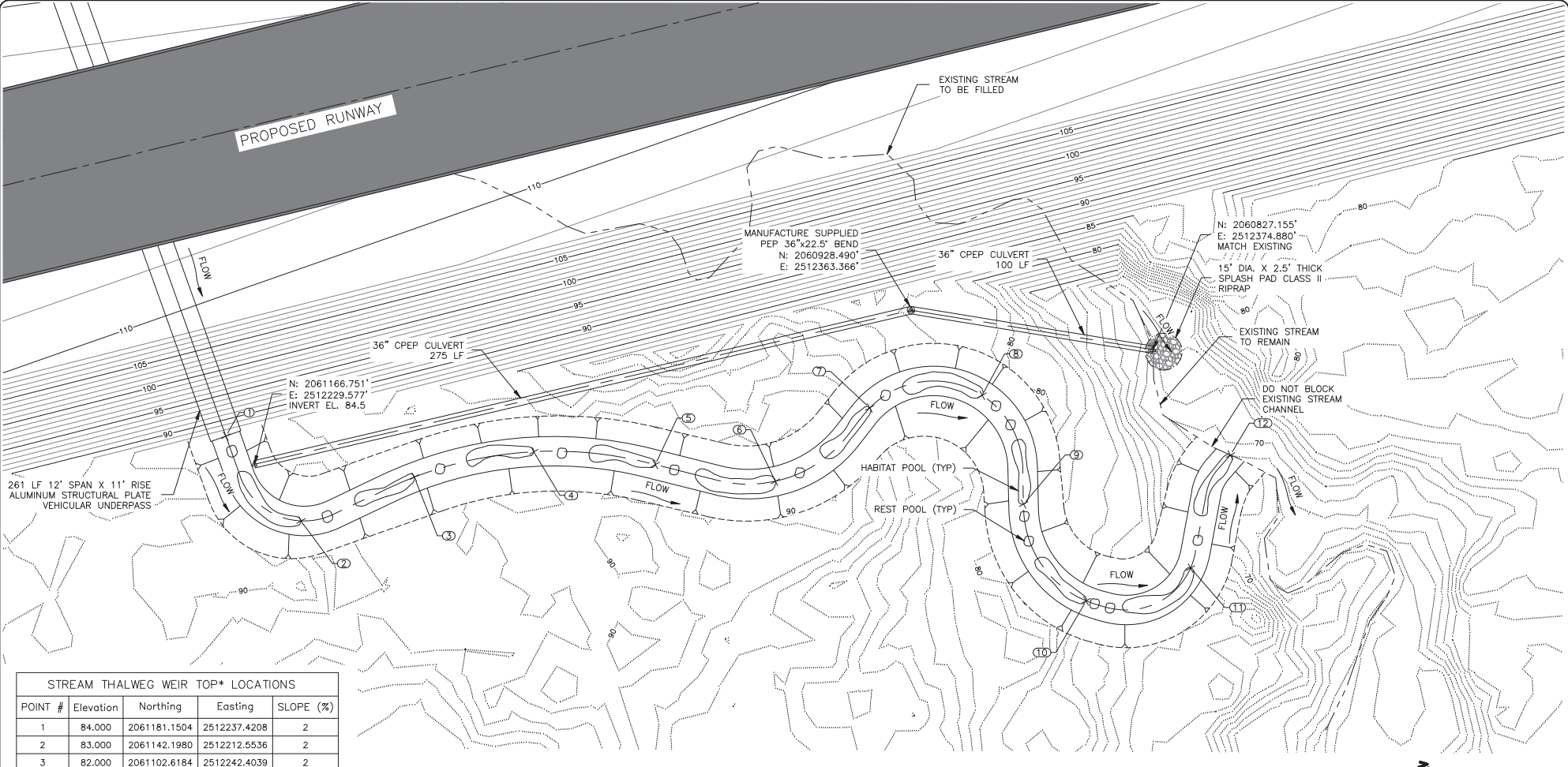
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 A.I.P. No. 3-02-XXXX-XXX-200X  
 CULVERT & STREAM  
 CROSSING DETAILS (1 OF 2)

DATE: 7/31/20  
 SHEET: **F5.1 OF 101**  
 AS-BUILT SHEET:



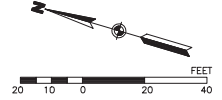


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2	83.000	2061142.1980	2512212.5536	2
3	82.000	2061102.6184	2512242.4039	2
4	81.000	2061058.6054	2512265.7052	2
5	80.000	2061009.5396	2512274.2020	2
6	79.000	2060960.5638	2512281.0898	2
7	78.000	2060931.7575	2512320.4000	3
8	76.500	2060889.0581	2512337.8988	4
9	74.500	2060860.7041	2512299.8762	4
10	72.500	2060825.3202	2512268.8394	4
11	70.500	2060788.0406	2512293.3701	2
12	69.300	2060785.0276	2512342.1905	-

1 PROPOSED STREAM PLAN



**LEGEND**  
 (20) X STREAM THALWEG, TOP OF WEIR LOCATIONS. SEE LAYOUT TABLE

**NOTES:**  
 1. SEE SHEET J1.2, DETAIL 3 FOR STREAM THALWEG STATION EQUATION INFORMATION.  
**POA-2009-01254, Favorite Bay**

**95% DESIGN**

NO.	DATE	REVISION

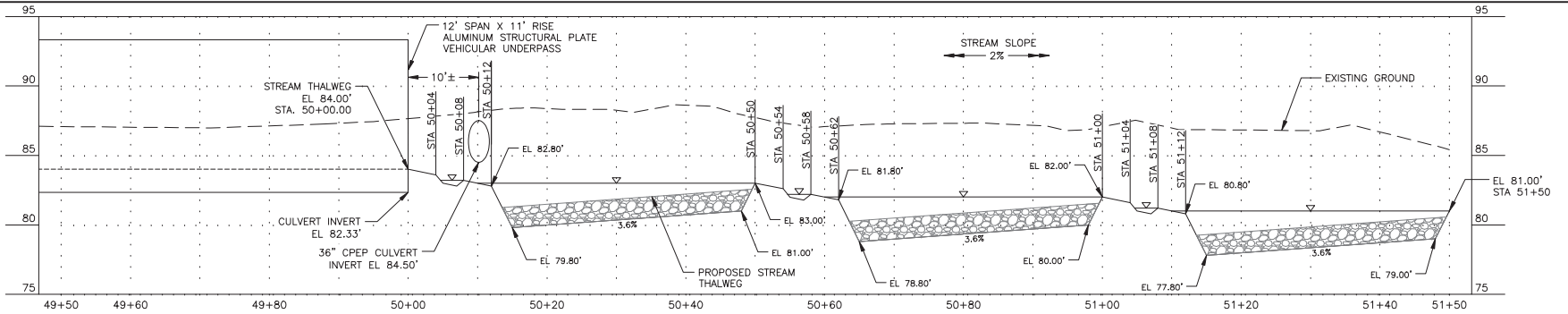
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**HDR Engineering Inc.**  
 2525 C Street Suite 500  
 Anchorage, Alaska 99503  
 (907) 644-2000  
 Certificate of Authorization No: AECC569

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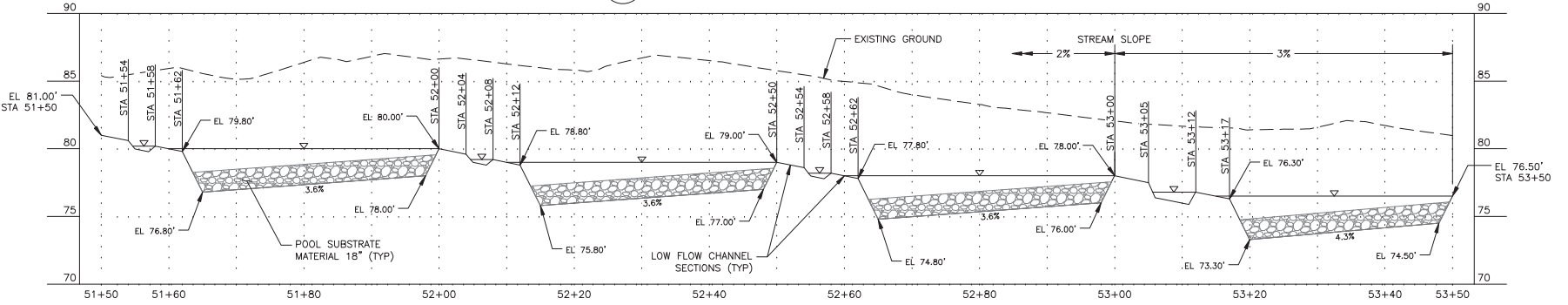
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 ANGOON, ALASKA  
 AIRPORT IMPROVEMENTS  
 PROJECT No. SFAP100086  
 A.I.P. No. 3-02-XXXX-XXXX-20XX  
 STREAM PLAN AND PROFILE

DATE: 7/31/20  
 SHEET: J1.0 OF 101  
 AS-BUILT SHEET:

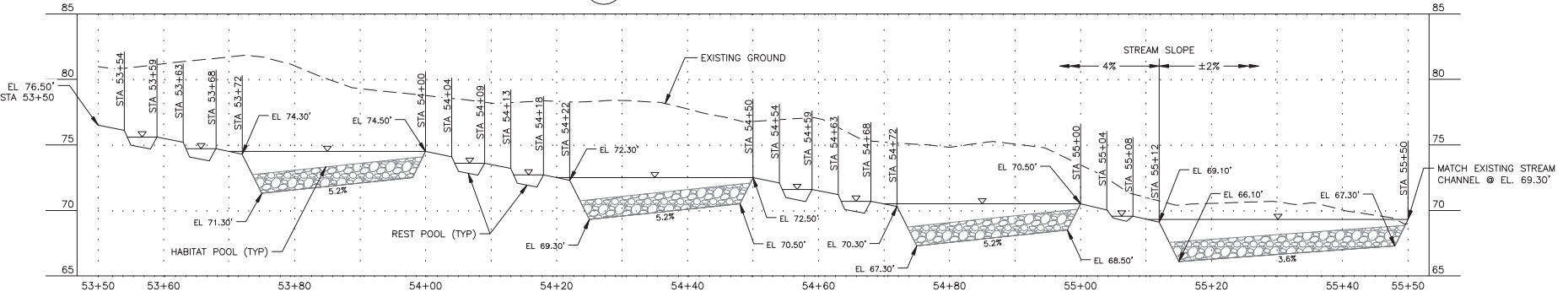
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 Drawn By: [Blank]



**1** STREAM PROFILE - STA 50+00 TO 51+50  
 J1.1 SCALE: 2" VERTICAL EXAGGERATION



**2** STREAM PROFILE - STA 51+50 TO 53+50  
 J1.1 SCALE: 2" VERTICAL EXAGGERATION



**3** STREAM PROFILE - STA 53+50 TO 55+50  
 J1.1 SCALE: 2" VERTICAL EXAGGERATION

POA-2009-01254, Favorite Bay

**95% DESIGN**

NO.	DATE	REVISION

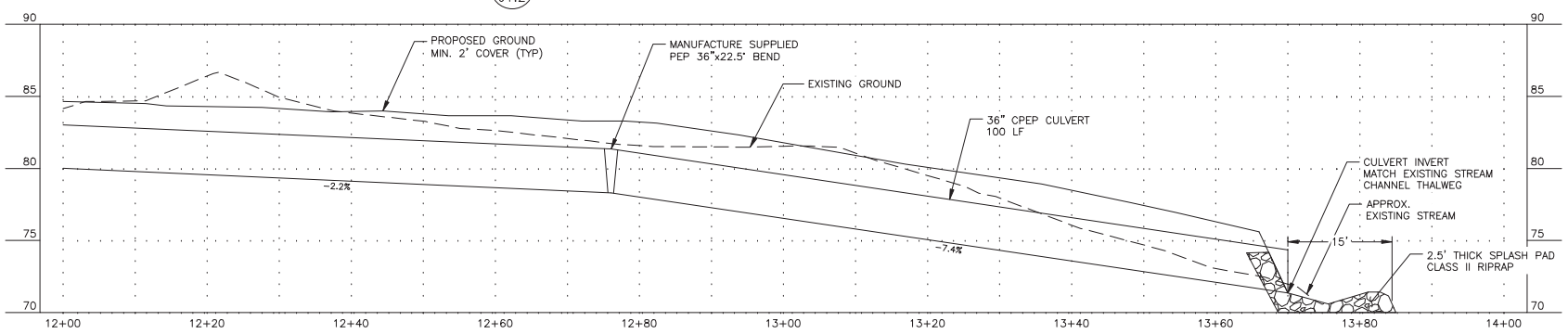
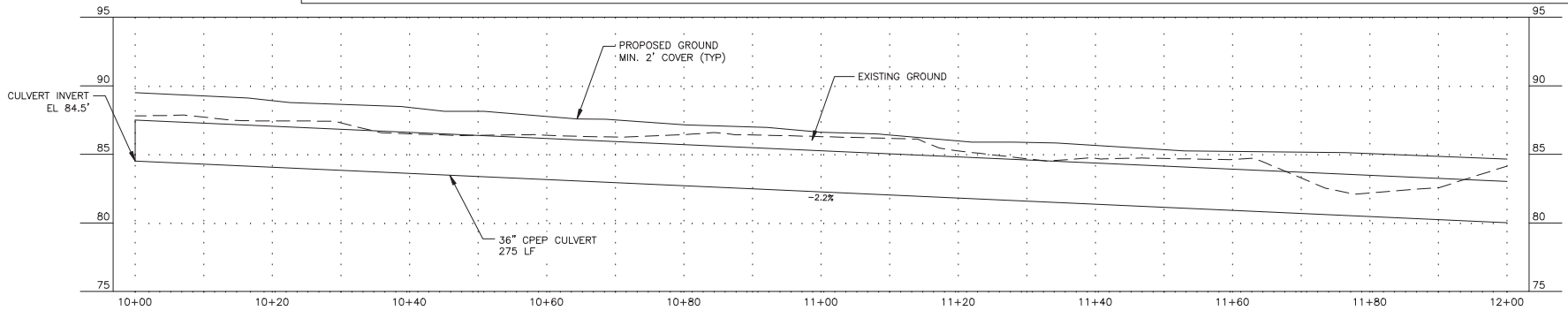
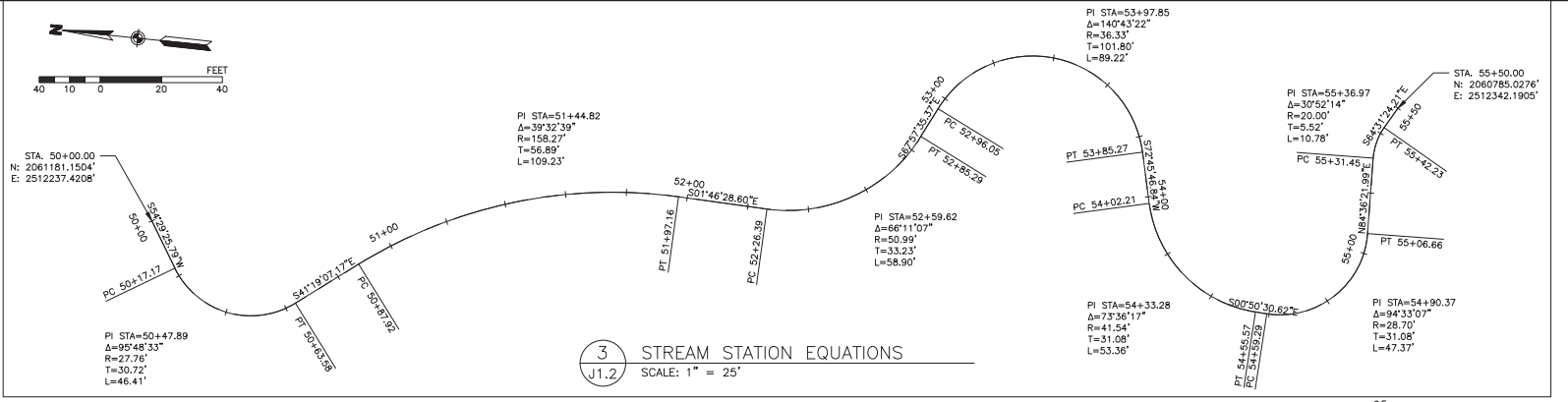
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 2525 C Street Suite 500  
 Anchorage, Alaska 99503  
 (907) 644-2000  
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**ANGOOK ALASKA**  
 AIRPORT IMPROVEMENTS  
 PROJECT No. SFAP100086  
 A.I.P. No. 3-02-XXXX-XXXX-20XX  
 STREAM PLAN AND PROFILE

DATE: 7/31/20  
 SHEET: J1.1 OF 101  
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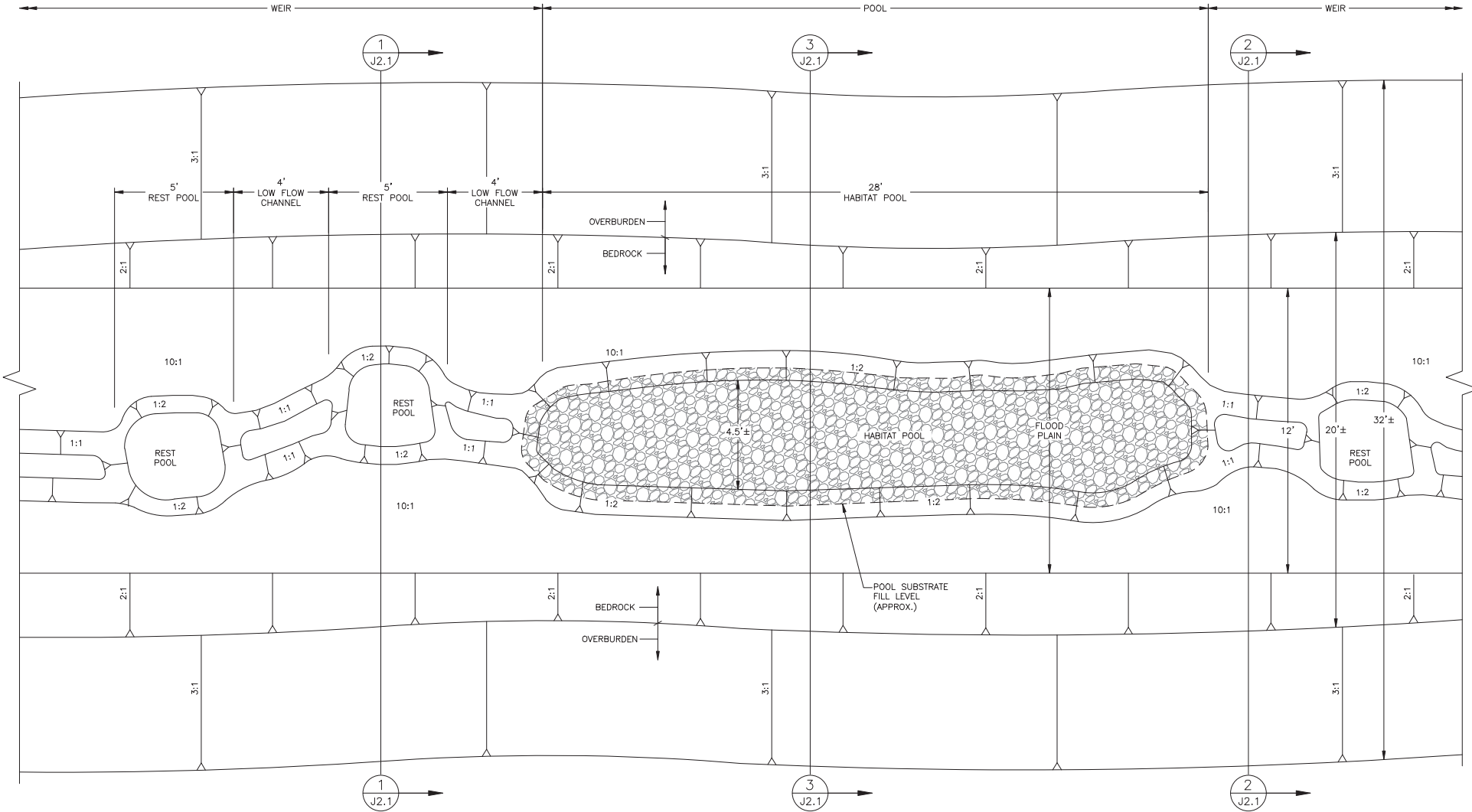
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 6860 GLACIER HIGHWAY  
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**ANGOON AIRPORT**  
 AIRPORT IMPROVEMENTS  
 PROJECT No. SFAP100086  
 A.I.P. No. 3-02-XXXX-XXXX-20XX  
 CULVERT PROFILE

DATE: 7/31/20  
 SHEET: J1.2 OF 101  
 AS-BUILT SHEET:



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1 J2.1 TYPICAL POOL-WEIR SEQUENCE PLAN VIEW  
2 J2.1 SCALE: NOT TO SCALE

- NOTES:**
- 4% CHANNEL SLOPE SHOWN. 3% & 2% CHANNEL SLOPES ARE SIMILAR WITH ONLY ONE REST POOL PER POOL-WEIR SEQUENCE. CROSS SECTION DIMENSIONS ARE THE SAME FOR ALL CHANNEL SLOPES.
  - STREAM CHANNEL AND FEATURES WILL BE CHIPPED OR RIPPED INTO FRACTURED BEDROCK - NO EXPLOSIVE BLASTING WILL BE ALLOWED.

POA-2009-01254, Favorite Bay

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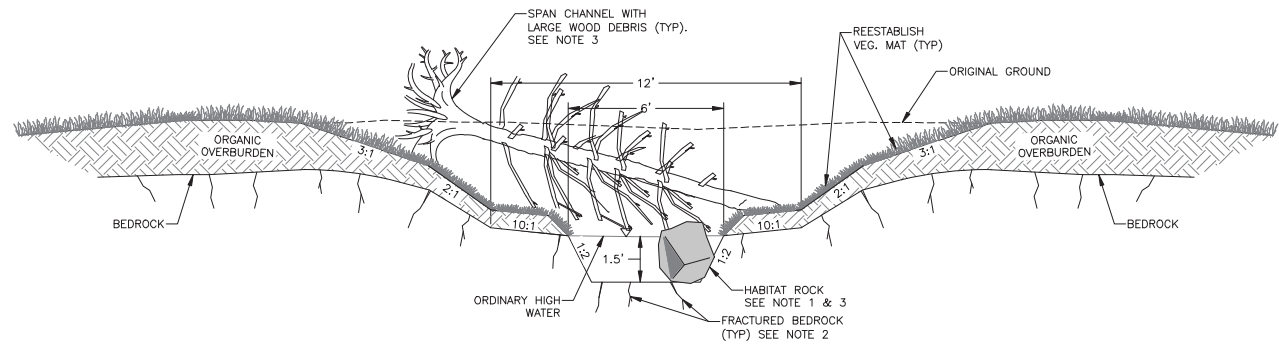
**STATE OF ALASKA DEPARTMENT OF TRANSPORTATION  
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 6860 GLACIER HIGHWAY  
 JUNEAU, ALASKA 99801  
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**ANGOON AIRPORT**  
 ANGOON, ALASKA  
 AIRPORT IMPROVEMENTS  
 PROJECT No. SFAP100086  
 A.I.P. No. 3-02-XXXX-XXXX-20XX  
 POOL-WEIR PLAN

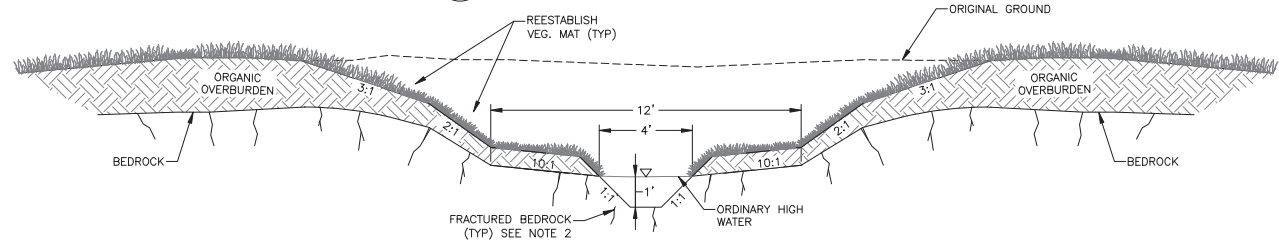
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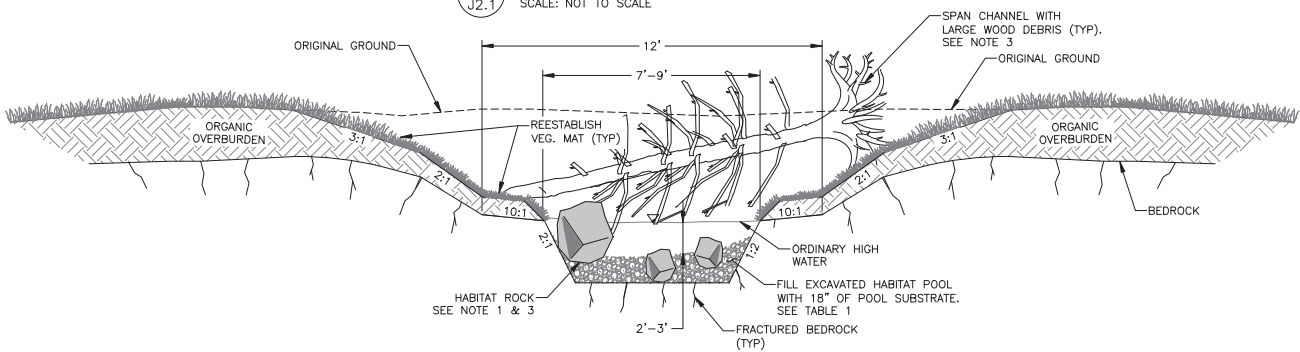
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1 TYPICAL REST POOL SECTION  
 J2.1 SCALE: NOT TO SCALE



2 TYPICAL LOW FLOW CHANNEL SECTION  
 J2.1 SCALE: NOT TO SCALE



3 TYPICAL HABITAT POOL SECTION  
 J2.1 SCALE: NOT TO SCALE

TABLE 1

POOL SUBSTRATE MATERIAL	SIZE	% PASSING
	8"	100%
	5"	75-85%
	2"	45-50%
	1"	40-45%
	#4	35-40%
	#10	30-35%
	#40	25-30%
	#200	20%

- NOTES:
1. PLACE 12 HABITAT ROCKS (18-24") PER POOL-WEIR SEQUENCE AS DIRECTED BY ENGINEER.
  2. BEDROCK FRACTURES IN LOW FLOW CHANNEL AND REST POOL TO BE GROUTED WITH BENTONITE CLAY PELLETS OR LOCALLY SOURCED CLAY. CHANNEL MUST BE SEALED AND CAPABLE OF CARRYING WATER.
  3. SEE SPECIFICATIONS FOR STREAM FLOW LOSS MITIGATION PRIOR TO PLACING HABITAT ROCKS AND LARGE WOOD DEBRIS.

POA-2009-01254, Favorite Bay

**95% DESIGN**

NO.	DATE	REVISION

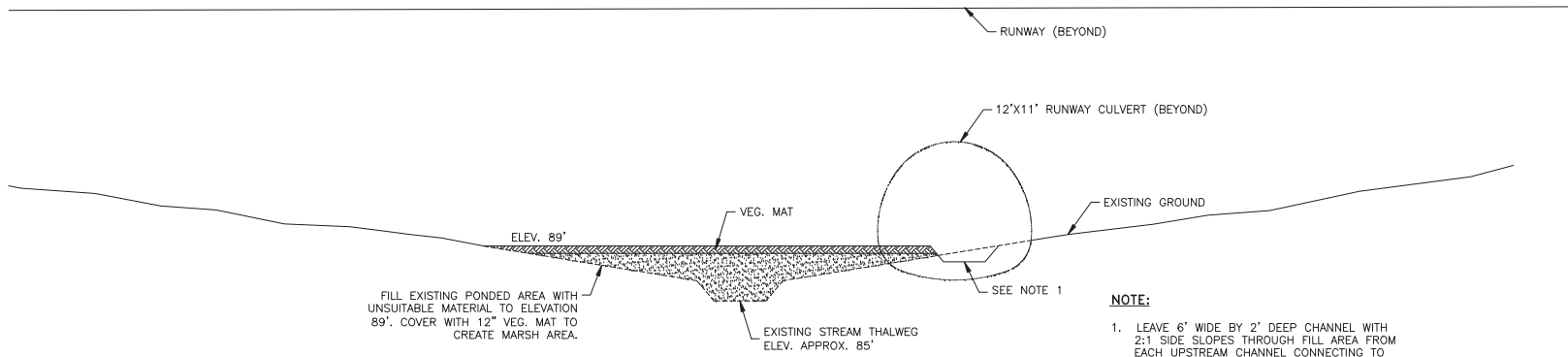
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**HDR Engineering Inc.**  
 2525 C Street Suite 500  
 Anchorage, Alaska 99503  
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STATE OF ALASKA DEPARTMENT OF TRANSPORTATION  
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**ANGOON AIRPORT**  
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 AIRPORT IMPROVEMENTS  
 PROJECT No. SFAP100086  
 A.I.P. No. 3-02-XXXX-XXXX-20XX  
 POOL-WEIR TYPICAL SECTIONS

DATE: 7/31/20  
 SHEET: J2.1 OF 101  
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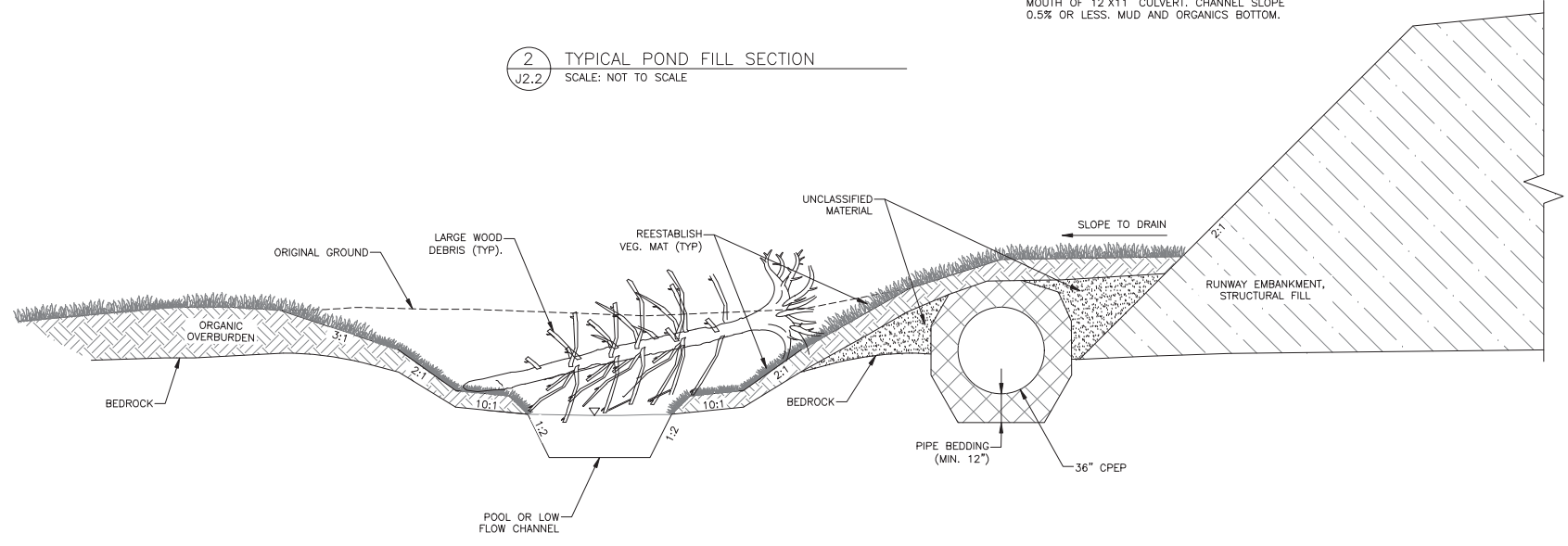
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**NOTE:**

1. LEAVE 6" WIDE BY 2" DEEP CHANNEL WITH 2:1 SIDE SLOPES THROUGH FILL AREA FROM EACH UPSTREAM CHANNEL CONNECTING TO MOUTH OF 12'x11' CULVERT. CHANNEL SLOPE 0.5% OR LESS. MUD AND ORGANICS BOTTOM.

**2** TYPICAL POND FILL SECTION  
 J2.2 SCALE: NOT TO SCALE



**1** TYPICAL CHANNEL SECTION WITH 36" CPEP  
 J2.2 SCALE: NOT TO SCALE (APPROX. STREAM STA. 51+50)

POA-2009-01254, Favorite Bay

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NO.	DATE	REVISION

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**HDR Engineering Inc.**  
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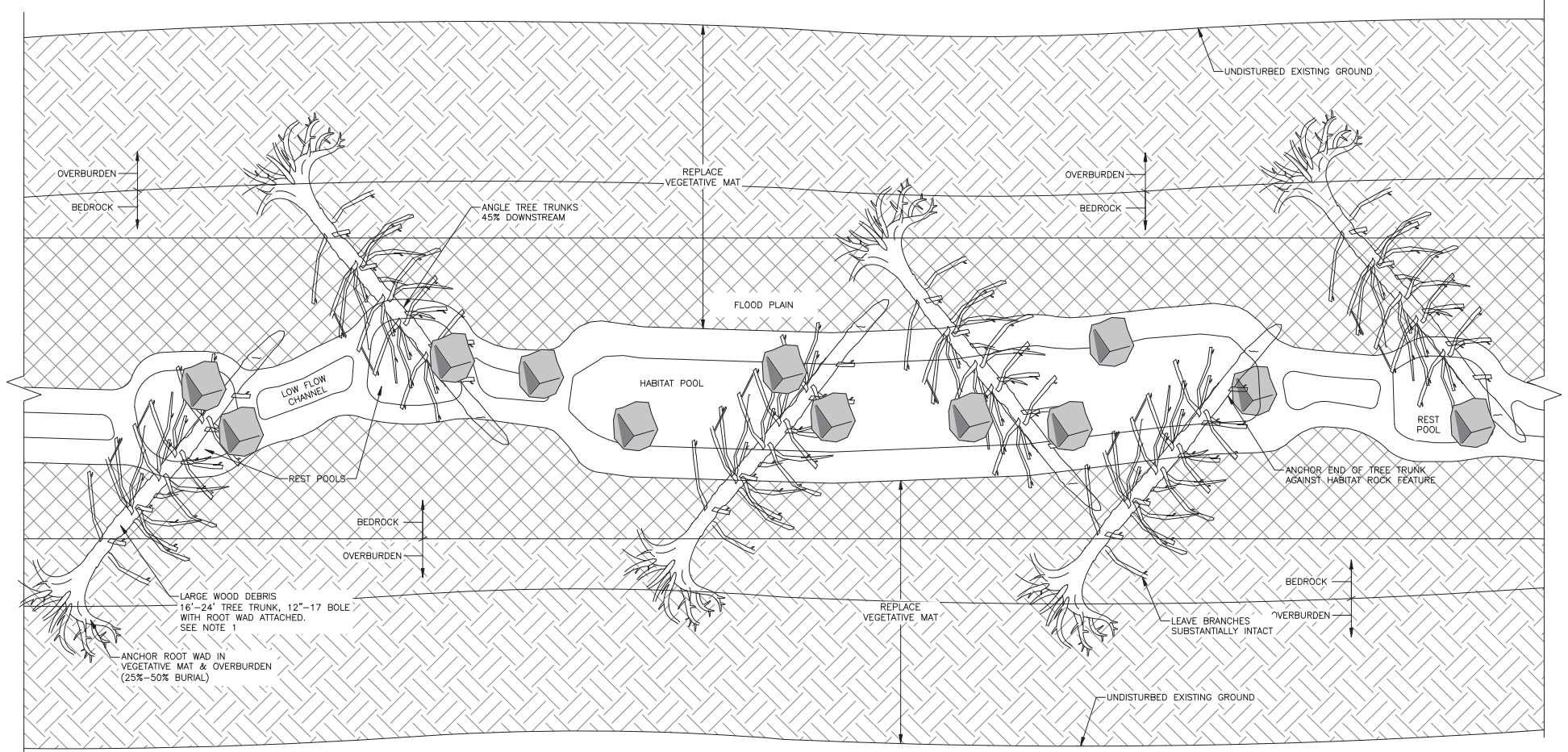
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 6860 GLACIER HIGHWAY  
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**ANGOON AIRPORT**  
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 AIRPORT IMPROVEMENTS  
 PROJECT No. SFAP100086  
 A.I.P. No. 3-02-XXXX-XXXX-20XX

POOL-WEIR TYPICAL SECTIONS

DATE: 7/31/20  
 SHEET: J2.2 OF 101  
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**1** TYPICAL RE-VEGETATION PLAN  
 J3.0 SCALE: NOT TO SCALE

- NOTES:**
- PLACE LARGE WOOD DEBRIS, ONE TREE TRUNK PER REST POOL, THREE PER HABITAT POOL (4-5 PER POOL-WEIR SEQUENCE) AT THE DIRECTION OF THE PROJECT ENGINEER.

- CONSTRUCTION SEQUENCE NOTES:**
- REMOVE AND STOCK PILE VEGETATIVE MAT (MIN 12") FROM DISTURBED AREA.
  - EXCAVATE MAIN CHANNEL TO FLOOD PLAIN. LEAVE SURFACES ROUGH AND BROKEN.
  - EXCAVATE LOW FLOW CHANNEL AND POOL FEATURES. LEAVE SURFACES ROUGH AND BROKEN.
  - PARTIALLY BACKFILL HABITAT POOLS WITH POOL SUBSTRATE AND SEAL BEDROCK FRACTURES IN LOW FLOW CHANNEL & REST POOL WITH BENTONITE CLAY PELLETS.
  - CONFIRM THAT CHANNEL CARRIES WATER. SEE SPECIFICATIONS FOR FLOW LOSS MITIGATION.
  - PLACE HABITAT ROCKS, LARGE WOOD DEBRIS AND REPLACE VEGETATIVE MAT ON ALL SIDE SLOPES DOWN TO THE EDGE OF ACTIVE CHANNEL.

POA-2009-01254, Favorite Bay

**95% DESIGN**

NO.	DATE	REVISION

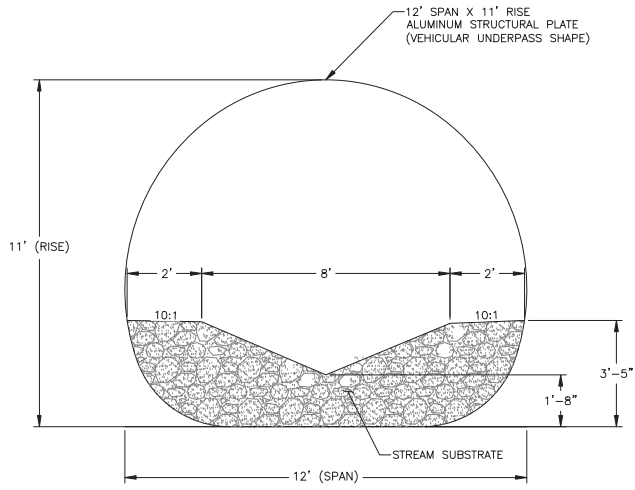
**DEVELOPED BY:**  
**HDR Engineering Inc.**  
 2525 C Street Suite 500  
 Anchorage, Alaska 99503  
 (907) 644-200  
 Certificate of Authorization No: AECC569

**STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES - SOUTHCOAST REGION**  
 6860 GLACIER HIGHWAY  
 JUNEAU, ALASKA 99801  
 907-465-1763

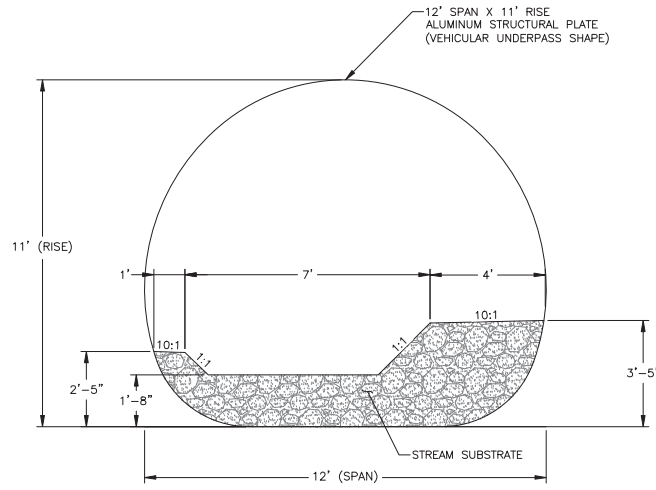
**ANGOON AIRPORT**  
 ANGOON, ALASKA  
 AIRPORT IMPROVEMENTS  
 PROJECT No. SFAP100086  
 A.I.P. No. 3-02-XXXX-XXXX-20XX  
 RE-VEGETATION PLAN

DATE: 7/31/20  
 SHEET: J3.0 OF 101  
 AS-BUILT SHEET:

Date: 7/26/2009 9:37 AM  
 User: J4.1  
 Project: POA-2009-01254, Favorite Bay  
 File Path: C:\Users\j4.1\Documents\Projects\POA-2009-01254\Favorite Bay\Culvert Substrate Details - Working.dwg



**2** CULVERT SUBSTRATE RIFFLE SECTION  
 J4.1 SCALE: NOT TO SCALE

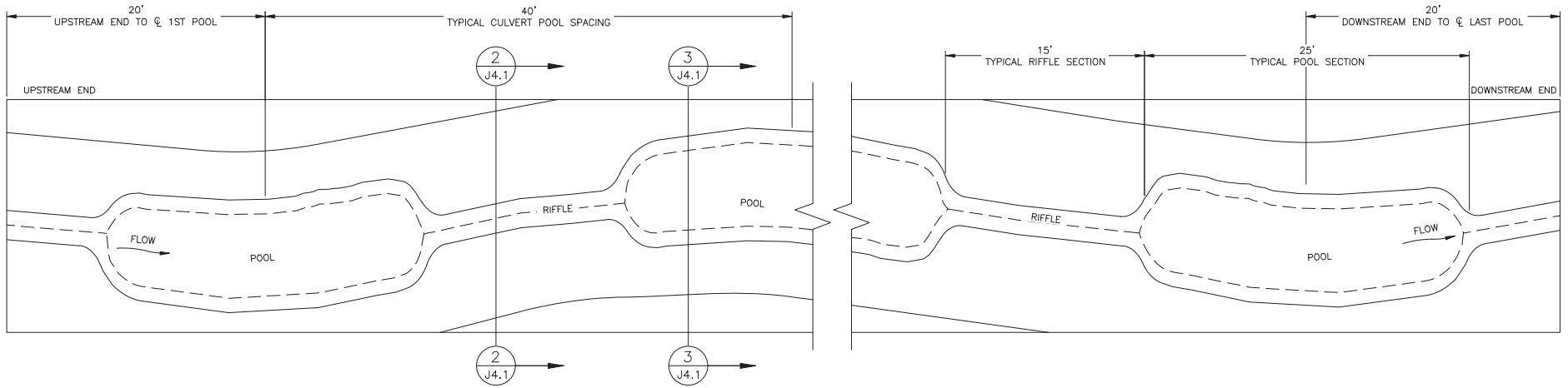


**3** CULVERT SUBSTRATE POOL SECTION  
 J4.1 SCALE: NOT TO SCALE

**NOTES:**

1. STREAM SUBSTRATE SHALL BE MIXED AT SITE USING 1 PART CLASS II RIP RAP, 2 PARTS CLASS I RIP RAP AND 2 PARTS FINE MATERIAL. FINE MATERIAL SHALL FOLLOWING THE GRADATION IN TABLE 1.
2. CONSTRUCT STREAM CHANNEL LEAVING A NON-UNIFORM, ROUGH SURFACE. WASH OR TAMP FINE MATERIALS INTO COARSE MATERIALS UNTIL BED IS SEALED AND WATER POOLS ON SURFACE. ADDITIONAL FINES MAY BE REQUIRED DURING THE PROCESS.

SIZE	% PASSING
4"	100%
2.5"	75-85%
2"	65-75%
1"	45-55%
#4	25-35%
#10	20%
#40	15%
#200	10%



**1** TYPICAL CULVERT SUBSTRATE PLAN  
 J4.1 SCALE: NOT TO SCALE

POA-2009-01254, Favorite Bay

**95% DESIGN**

NO.	DATE	REVISION

**DEVELOPED BY:**  
**HDR Engineering Inc.**  
 2525 C Street Suite 500  
 Anchorage, Alaska 99503  
 (907) 644-2000  
 Certificate of Authorization No: AECC569

**STATE OF ALASKA DEPARTMENT OF TRANSPORTATION  
 & PUBLIC FACILITIES - SOUTHCOAST REGION**  
 6860 GLACIER HIGHWAY  
 JUNEAU, ALASKA 99801  
 907-465-1763

**ANGOON AIRPORT**  
 ANGOON, ALASKA  
 AIRPORT IMPROVEMENTS  
 PROJECT No. SFAP100086  
 A.I.P. No. 3-02-XXXX-XXXX-20XX  
 CULVERT SUBSTRATE DETAILS

DATE: 7/31/20  
 SHEET: J4.0 OF 101  
 AS-BUILT SHEET:



Date: 7/29/2020, 9:37 AM  
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 File Path: C:\Users\j5.0\AppData\Local\Temp\1425A\_VDR\_Stream\_Design\_95%\_Sections and Details - Working.dwg  
 Project Name: POA-2009-01254, Favorite Bay  
 Project No: 3-02-XXXX-XXXX-20XX  
 Reference Reaches:



1 EXAMPLE REACH - HABITAT POOL SECTION  
 J5.0 0% - 2.0%



2 EXAMPLE REACH - WEIR SECTION  
 J5.0 > 2.0%

POA-2009-01254, Favorite Bay

**95% DESIGN**

NO.	DATE	REVISION

**DEVELOPED BY:**  
**HDR Engineering Inc.**  
 2525 C Street Suite 500  
 Anchorage, Alaska 99503  
 (907) 644-2000  
 Certificate of Authorization No: AECC569

**STATE OF ALASKA DEPARTMENT OF TRANSPORTATION  
 & PUBLIC FACILITIES - SOUTHCOAST REGION**  
 6860 GLACIER HIGHWAY  
 JUNEAU, ALASKA 99801  
 907-465-1763

**ANGOON AIRPORT**  
 ANGOON, ALASKA  
 AIRPORT IMPROVEMENTS  
 PROJECT No. SFAP100086  
 A.I.P. No. 3-02-XXXX-XXXX-20XX  
 REFERENCE REACHES

DATE: 7/31/20  
 SHEET: J5.0 OF 101  
 AS-BUILT SHEET:



DATE: 7/26/2020 14:45 PM  
 DESIGNED BY: LAM/RSB  
 DRAWN BY: JMS  
 CHECKED BY: JMS  
 FILE PATH: \\P:\2019\2020\1445\_PN\ANGOOON\_AIRPORT\CADD\2020\1445\_PN.dwg



- LEGEND**
- HAIL ROUTE
  - VB—VB— VEGETATION BUFFER (BMP-38.00 DOT&PF SWPPP GUIDE)
  - >— SURFACE FLOW DIRECTION
  - >— DITCH (NEW)
  - >— CULVERT (NEW)
  - CUT LIMITS
  - ..... FILL LIMITS
  - P-P-P- TEMPORARY PERIMETER CONTROLS- FIBER ROLLS, SILT FENCE (BMP-10.01, BMP-20.00, DOT&PF SWPPP GUIDE) OR EQUIVALENT.
  - VEHICLE TRACKING EXIT/ENTRANCE (BMP-23.00 & 24.00 DOT&PF SWPPP GUIDE)
  - ↓ WETLANDS
  - CULVERT INLET PROTECTION (BMP-8.00 DOT&PF SWPPP GUIDE)

- NOTES:**
1. PHASE 1 CONTROLS COINCIDE WITH CONSTRUCTION SEQUENCE PHASE 1.
  2. SEED ALL WASTE DISPOSAL AREAS UTILIZED IN PHASE 1 FOLLOWING T-901 OF THE PROJECT SPECIFICATIONS. INCLUDE HYDRAULIC GROWTH MEDIUM AS SPECIFIED IN T-908.

POA-2009-01254, Favorite Bay

**95% PS&E**

NO.	DATE	REVISION

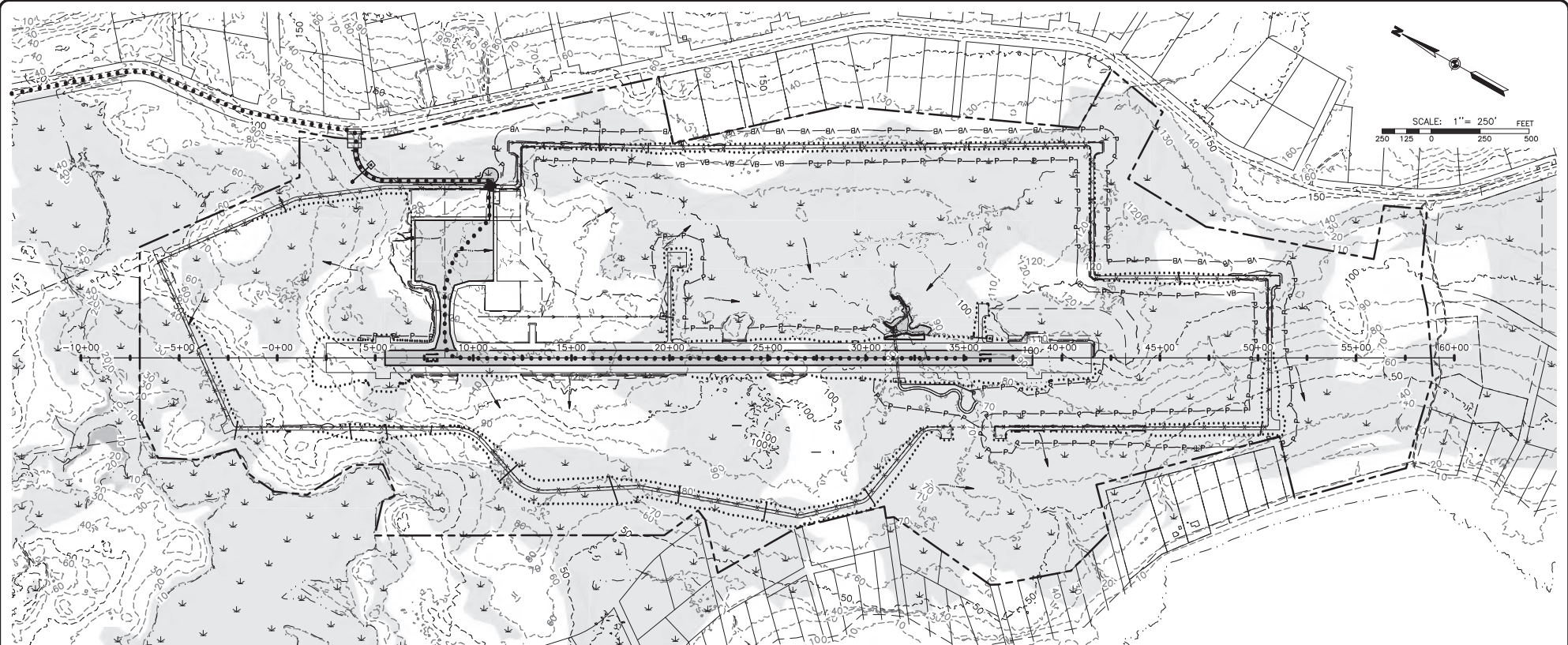
**DEVELOPED BY:**  
**PDC, A RESPEC COMPANY**  
 9109 MENDENHALL MALL RD, STE. 4  
 JUNEAU, AK 99801  
 (907) 780-6060  
 Certificate of Authorization No: AECC605

**STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES - SOUTHWEST REGION**  
 6860 GLACIER HIGHWAY  
 JUNEAU, ALASKA 99801  
 907-465-1763

**ANGOOON AIRPORT**  
 ANGOON, ALASKA  
 AIRPORT IMPROVEMENTS  
 PROJECT No. SFAP100096  
 A.I.P. No. 3-02-XXXX-XXX-200X  
 EROSION AND SEDIMENT CONTROL  
 PLAN PHASE 1

DATE: 7/31/20  
 SHEET: **P2.1** OF 101  
 AS-BUILT SHEET:

3/20/2020 14:45 PM  
 95% PS&E  
 Date Plotted: 7/31/20  
 User: JRM  
 File Path: \\s01\71717171\Angoon\_Airport\CAD\95% PS&E\95% PS&E.dwg



- LEGEND**
- ..... HAUL ROUTE
  - VB — VEGETATION BUFFER (BMP-36.00 DOT&PF SWPPP GUIDE)
  - SURFACE FLOW DIRECTION
  - - - DITCH (NEW)
  - CULVERT (NEW)
  - - - CUT LIMITS
  - ..... FILL LIMITS
  - P - P - P - TEMPORARY PERIMETER CONTROLS- FIBER ROLLS, SILT FENCE (BMP-10.01, BMP-20.00, DOT&PF SWPPP GUIDE) OR EQUIVALENT.
  - VEHICLE TRACKING EXIT/ENTRANCE (BMP-23.00 & 24.00 DOT&PF SWPPP GUIDE)
  - ↓ WETLANDS
  - CULVERT INLET PROTECTION (BMP-8.00 DOT&PF SWPPP GUIDE)

- NOTES:**
1. PHASE 2 CONTROLS COINCIDE WITH CONSTRUCTION SEQUENCE PHASE 2.
  2. SEED ALL WASTE DISPOSAL AREAS UTILIZED IN PHASE 2 FOLLOWING T-901 OF THE PROJECT SPECIFICATIONS. INCLUDE HYDRAULIC GROWTH MEDIUM AS SPECIFIED IN T-908.

POA-2009-01254, Favorite Bay

**95% PS&E**

NO.	DATE	REVISION

**DEVELOPED BY:**  
**PDC, A RESPEC COMPANY**  
 9109 MENDENHALL MALL RD, STE. 4  
 JUNEAU, AK 99801  
 (907) 780-6060  
 Certificate of Authorization No: AECC605

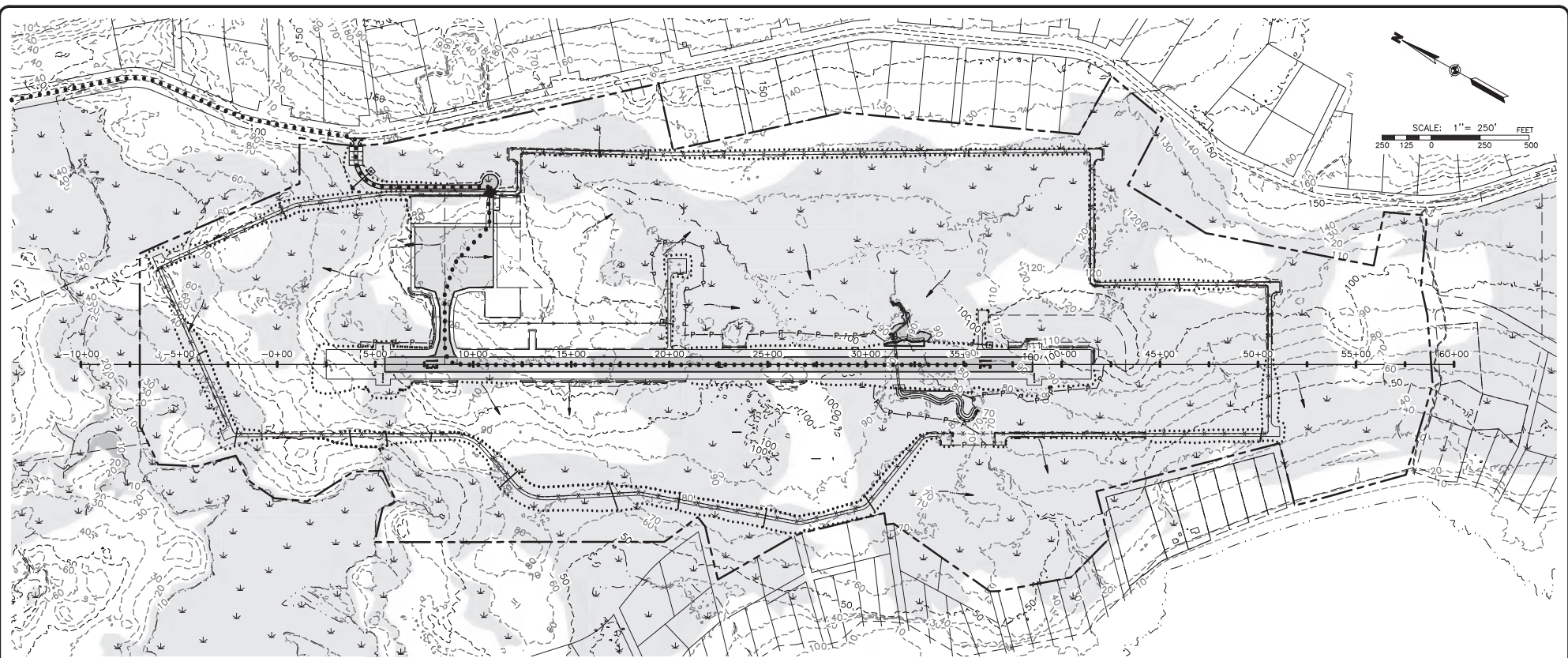
**STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES - SOUTHWEST REGION**  
 6850 GLACIER HIGHWAY  
 JUNEAU, ALASKA 99801  
 907-465-1763

**ANGOON AIRPORT**  
 ANGOON, ALASKA  
 AIRPORT IMPROVEMENTS  
 PROJECT No. SP4P100086  
 A.I.P. No. 3-02-XXXX-XXX-200X  
 EROSION AND SEDIMENT CONTROL  
 PLAN PHASE 2

DATE: 7/31/20  
 SHEET: **P2.2** OF 101  
 AS-BUILT SHEET:



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 PLOT SHEET: 2.3  
 PLOT SYSTEM: ANSI



- LEGEND**
- ..... HAUL ROUTE
  - - - - - VB - VEGETATION BUFFER (BMP-38.00 DOT&PF SWPPP GUIDE)
  - SURFACE FLOW DIRECTION
  - - - - - DITCH (NEW)
  - — — — — CULVERT (NEW)
  - - - - - CUT LIMITS
  - ..... FILL LIMITS
  - P - P - P - TEMPORARY PERIMETER CONTROLS - FIBER ROLLS, SILT FENCE (BMP-10.01, BMP-20.00, DOT&PF SWPPP GUIDE) OR EQUIVALENT.
  - VEHICLE TRACKING EXIT/ENTRANCE (BMP-23.00 & 24.00 DOT&PF SWPPP GUIDE)
  - ↓ WETLANDS
  - CULVERT INLET PROTECTION (BMP-8.00 DOT&PF SWPPP GUIDE)

- NOTES:**
1. PHASE 3 CONTROLS COINCIDE WITH CONSTRUCTION SEQUENCE PHASE 3.
  2. SEED ALL WASTE DISPOSAL AREAS UTILIZED IN PHASE 3 FOLLOWING T-091 OF THE PROJECT SPECIFICATIONS. INCLUDE HYDRAULIC GROWTH MEDIUM AS SPECIFIED IN T-908.

POA-2009-01254, Favorite Bay

**95% PS&E**

NO.	DATE	REVISION

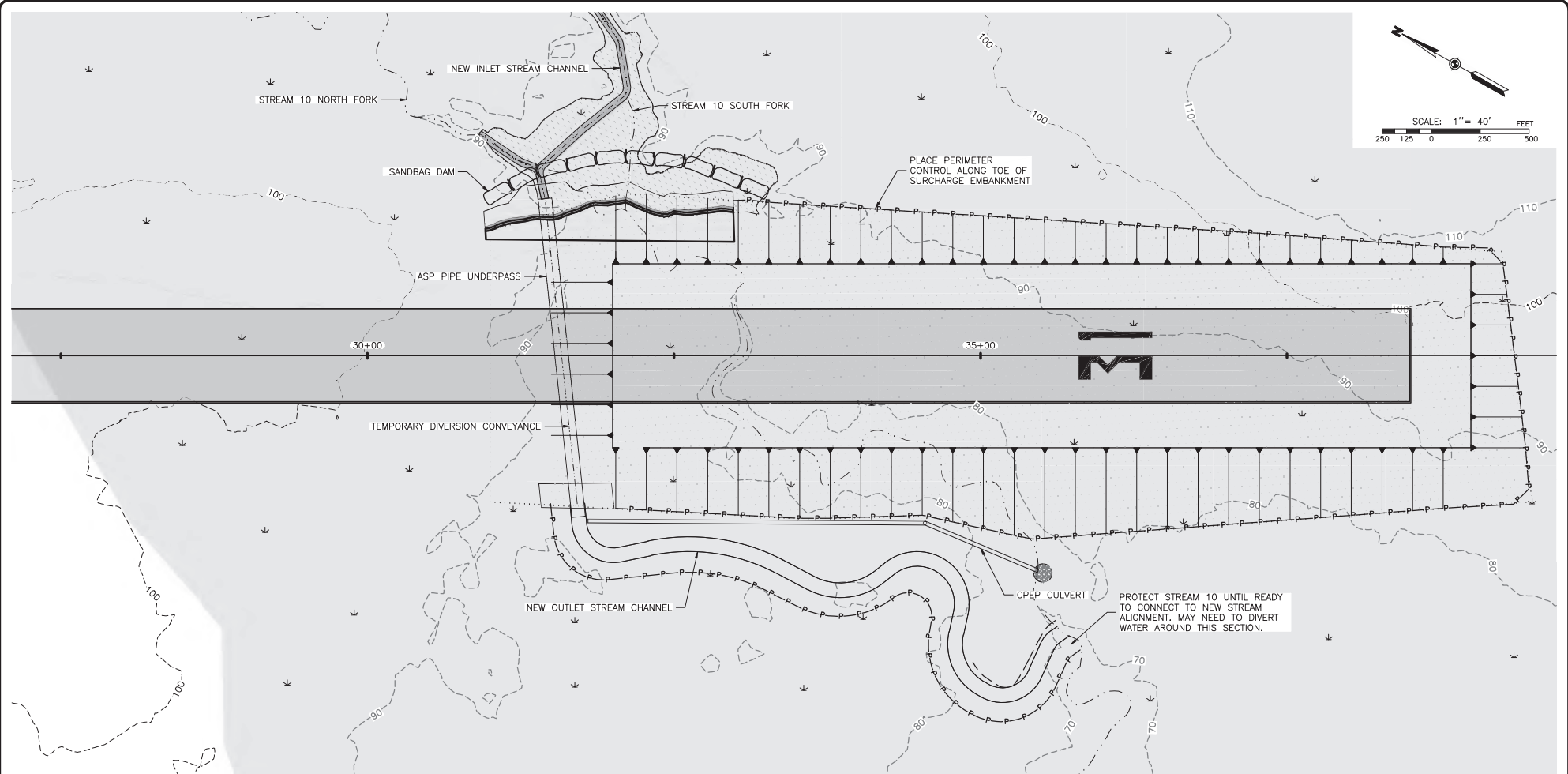
**DEVELOPED BY:**  
**PDC, A RESPEC COMPANY**  
 9109 MENDENHALL MALL RD, STE. 4  
 JUNEAU, AK 99801  
 (907) 780-6060  
 Certificate of Authorization No: AECC605

**STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES - SOUTHCOAST REGION**  
 6860 GLACIER HIGHWAY  
 JUNEAU, ALASKA 99801  
 907-465-1763

**ANGOON AIRPORT**  
 ANGOON, ALASKA  
 AIRPORT IMPROVEMENTS  
 PROJECT No. SP4P100096  
 A.I.P. No. 3-02-XXXX-XXX-200X  
**EROSION AND SEDIMENT CONTROL PLAN PHASE 3**

DATE: 7/31/20  
 SHEET: **P2.3** OF 101  
 AS-BUILT SHEET:

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 Drawn By: LAM/RSB  
 Checked By: JMS  
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 User: JRM



- LEGEND**
- HAUL ROUTE
  - VB-VB- VEGETATION BUFFER (BMP-38.00 DOT&PF SWPPP GUIDE)
  - SURFACE FLOW DIRECTION
  - WETLANDS
  - - - - - DITCH (NEW)
  - - - - - CUT LIMITS
  - ..... FILL LIMITS
  - P-P-P- TEMPORARY PERIMETER CONTROLS-  
FIBER ROLLS, SILT FENCE (BMP-10.01,  
BMP-20.00, DOT&PF SWPPP GUIDE) OR  
EQUIVALENT.

- CULVERT BYPASS SEQUENCE:**
1. AFTER INSTALLATION OF CPEP CULVERT, BLOCK STREAM USING SANDBAG DAM (BMP-34.00 DOT&PF SWPPP GUIDE OR FUNCTIONAL EQUIVALENT).
  2. INSTALL TEMPORARY DIVERSION CONVEYANCE (BMP-34.00 DOT&PF SWPPP GUIDE OR FUNCTIONAL EQUIVALENT) FROM UPSTREAM OF DAM TO INLET OF CPEP CULVERT. TEMPORARY DIVERSION CONVEYANCE MAY BE PLACED WITHIN ASP CULVERT. CONTRACTOR MAY CHOOSE TO ALTER LOCATION WITH APPROVAL OF ENGINEER.
  3. INSTALL ASP CULVERT. CONSTRUCT NEW INLET STREAM CHANNEL AND NEW OUTLET STREAM CHANNEL.
  4. WHEN OUTLET STREAM CHANNEL IS APPROVED FOR OPERATION, REMOVE DAM, TEMPORARY DIVERSION CONVEYANCE AND BLOCK CPEP CULVERT INLET.

POA-2009-01254, Favorite Bay

**95% PS&E**

NO.	DATE	REVISION

**DEVELOPED BY:**  
**PDC, A RESPEC COMPANY**  
 9109 MENDENHALL MALL RD, STE. 4  
 JUNEAU, AK 99801  
 (907) 780-6060  
 Certificate of Authorization No: AECC605

**STATE OF ALASKA DEPARTMENT OF TRANSPORTATION  
 & PUBLIC FACILITIES - SOUTHWEST REGION**  
 6860 GLACIER HIGHWAY  
 JUNEAU, ALASKA 99801  
 907-465-1763

**ANGOON AIRPORT**  
 ANGOON, ALASKA  
 AIRPORT IMPROVEMENTS  
 PROJECT No. SFAP100086  
 A.I.P. No. 3-02-XXXX-XXXX-XXXX  
 EROSION AND SEDIMENT CONTROL  
 PLAN CULVERT DETAIL

DATE: 7/31/20  
 SHEET: **P2.4** OF 101  
 AS-BUILT SHEET:

# DEPARTMENT OF THE ARMY PERMIT

**Permittee:** Alaska Department of Transportation and Public Facilities

**Permit No.:** POA-2009-01254 (Favorite Bay)

**Issuing Office:** U.S. Army Engineer District, Alaska

**NOTE:** The term "you" and its derivatives, as used in this permit, means the permittee or any future transferee. The term "this office" refers to the appropriate district or division office of the Corps of Engineers having jurisdiction over the permitted activity or the appropriate official of that office acting under the authority of the commanding officer.

You are authorized to perform work in accordance with the terms and conditions specified below.

**Project Description:** Discharge of fill material into waters of the United States, including wetlands, (WOTUS) for the construction of a land-based airport:

**Permanent and Temporary Impacts to WOTUS.**

Water resource type	Permanent impacts – convert wetlands to uplands (acres) or stream loss (lf)		Alteration / Temporary impacts Wetlands (acres) and streams (lf)		
	Construct airport (runway, apron, roads etc.)	Maximum Waste disposal	Tree removal – leave stumps	Selective logging	Clearing and stockpiling
Bog forest	24.13 ac	13.45 ac	66.17 ac	9.78 ac	0 ac
Bog woodland	16.27 ac	16.21 ac	46.56 ac	0 ac	0 ac
Streams	1,284.5 lf	180 lf	6,258.07 lf	104.32 lf	0 lf
Subtotal wetlands	40.40 ac	29.66 ac	112.73 ac	9.78 ac	0 ac
Subtotal streams	1,284.5 lf*	180 lf	6,258.07 lf	104.32 lf	0 lf
Total Maximum Wetland Fill		<b>70.06 ac</b>	Total Temp. Wetland Impact		<b>122.51 ac</b>
Total Stream Loss*		<b>1,867.90 lf</b>	Total Temp. Stream Impact		<b>6,046.39 lf</b>
Re-aligned Stream 10MF		<b>550 lf</b>			
Net Stream Impact		<b>1,317.90 lf</b>			

\*Includes 1,276.9 cubic yards of fill in Streams 17, 10NF, 10SF, and MF; piping Stream 10SF 175 feet; piping Stream 17 100 feet under the perimeter embankment road and filling 316 feet of Stream 17 in the waste disposal area.



**Fill Types in WOTUS.**

Type of Fill*	Purpose of Fill and Quantity	
	Airport construction (access road, perimeter road, apron, taxiway and runway)	Waste Disposal (organics, fines, woody debris)
<b>General</b>		
Unsuitable material from site excavation – organic soil (peat, muck), fines (silts and clays) and woody debris	De minimus**	46,635 yd. <sup>3</sup>
Suitable materials from on-site excavation – silt, clay, sand, gravel, rock	355,365 yd. <sup>3</sup>	--
Subbase	54,516 yd. <sup>3</sup>	--
Concrete rock drains (2"Hx2"W, var. lengths) for the perimeter road	Up to 21 (each)	--
CS Pipe – 36" plus sand bedding (access road, AWOS pad, second wind cone)	3 (each) + 20 yd. <sup>3</sup>	--
<b>Stream 10MF Runway Undercrossing and Realignment</b>		
Aluminum Structural Plate (ASP) pipe	261'Lx11'Hx12'W	--
Riprap, Class II- inlet and outlet protection	1,060 yd. <sup>3</sup>	--
Class B bedding (for the ASP pipe)	2,150 yd. <sup>3</sup>	--
Concrete slurry (for the ASP pipe)	600 yd. <sup>3</sup>	--
Geomembrane (for the ASP pipe)	760 yd. <sup>3</sup>	--
Sand bedding (for the ASP pipe)	360 yd. <sup>3</sup>	--
Stream and pool substrate (new channel)	460 yd. <sup>3</sup>	--
Habitat rocks (new channel)	145 (each)	--
Large Wood (new channel)	45 pieces	--
Subtotal	415,291 yd. <sup>3</sup>	43,635 yd. <sup>3</sup>
<b>Total</b>	<b>458,926 yd.<sup>3</sup></b>	

\*Does not include base rock or asphalt for the finished surfaces

\*\*A de minimus amount of organics would be back-filled in wetlands as part of site excavation.

All work will be performed in accordance with the attached plan, 6 sheets dated September 10, 2020, and 35 sheets dated July 31, 2020.

**Project Location:** Section 5, 6, & 8, T. 51 S., R. 68 E., Copper River Meridian; USGS Quad Map Sitka B-2; Latitude 57.475520° N., Longitude 134.553167° W.; in Angoon, Alaska.

**Permit Conditions:**

**General Conditions:**

1. The time limit for completing the work authorized ends on **5 years from the end of issuing month.**

If you find that you need more time to complete the authorized activity, submit your request for a time extension to this office for consideration at least one month before the above date is reached.

2. You must maintain the activity authorized by this permit in conformance with the terms and conditions of this permit. You are not relieved of this requirement if you abandon the permitted activity, although you may make a good faith transfer to a third party in compliance with General Condition 4 below. Should you wish to cease to maintain the authorized activity or should you desire to abandon it without a good faith transfer, you must obtain a modification of this permit from this office, which may require restoration of the area.

3. If you discover any previously unknown historic or archeological remains while accomplishing the activity authorized by this permit, you must immediately notify this office of what you have found. We will initiate the Federal and State coordination required to determine if the remains warrant a recovery effort or if the site is eligible for listing in the National Register of Historic Places.

4. If you sell the property associated with this permit, you must obtain the signature of the new owner in the space provided and forward a copy of the permit to this office to validate the transfer of this authorization.

5. If a conditioned water quality certification has been issued for your project, you must comply with the conditions specified in the certification as special conditions to this permit. For your convenience, a copy of the certification is attached if it contains such conditions.

6. You must allow representatives from this office to inspect the authorized activity at any time deemed necessary to ensure that it is being or has been accomplished in accordance with the terms and conditions of your permit.

**Special Conditions:**

1. Prior to commencing the work authorized by this permit, the Permittee shall purchase 18 wetland credits from the Southeast Alaska Mitigation Fund, 28.35 wetland credits from the Trillium Mitigation Bank, and 118.9 wetland credits from the Natzuhinin Mitigation Bank for the loss of 70.06 acres of wetlands, including the purchase of 1.54 stream credits from the Natzuhini Mitigation Bank for the loss of 1,867.90 linear feet of stream loss. You must email the signed credit transaction form to [mitigationmanager@usace.army.mil](mailto:mitigationmanager@usace.army.mil) and to Randal.P.Vigil@usace.army.mil upon completion of credit transaction (see form attached). If you are unable to complete this transaction, you are required to obtain a permit modification prior to commencing the work authorized by this permit for approval of an alternate mitigation method.

2. Within 60 days of completion of the work authorized by this permit, the Permittee shall complete the attached "Self-Certification Statement of Compliance" form and submit it to the Corps (U.S. Army Corps of Engineers, Regulatory Division, CEPOA-RD, Juneau Field Office, P.O. Box 22270 Juneau, AK. In the event that the completed work deviates in any manner from the authorized work, the Permittee shall describe the deviations between the work authorized by this permit and the work as constructed on the "Self-Certification Statement of Compliance" form. The description of any deviations on the "Self-Certification Statement of Compliance" form does not constitute approval of any deviations by the Corps.

**Further Information:**

1. Congressional Authorities: You have been authorized to undertake the activity described above pursuant to:

( ) Section 10 of the Rivers and Harbors Act of 1899 (33 U.S.C. 403).

(X) Section 404 of the Clean Water Act (33 U.S.C. 1344).

( ) Section 103 of the Marine Protection, Research, and Sanctuaries Act of 1972 (33 U.S.C. 1413).

2. Limits of this authorization.

a. This permit does not obviate the need to obtain other Federal, State, or local authorization required by law.

b. This permit does not grant any property rights or exclusive privileges.

c. This permit does not authorize any injury to the property or rights of others.

d. This permit does not authorize interference with any existing or proposed Federal project.

3. Limits of Federal Liability. In issuing this permit, the Federal Government does not assume any liability for the following:

a. Damages to the permitted project or uses thereof as a result of other permitted or unpermitted activities or from natural causes.

b. Damages to the permitted project or uses thereof as a result of current or future activities undertaken by or on behalf of the United States in the public interest.

c. Damages to persons, property, or to other permitted or unpermitted activities or structures caused by the activity authorized by this permit.

d. Design or construction deficiencies associated with the permitted work.

e. Damage claims associated with any future modification, suspension, or revocation of this permit.

4. Reliance on Applicant's Data: The determination of this office that issuance of this permit is not contrary to the public interest was made in reliance on the information you provided.

5. Reevaluation of Permit Decision. This office may reevaluate its decision on this permit at any time the circumstances warrant. Circumstances that could require a reevaluation include, but are not limited to, the following:

a. You fail to comply with the terms and conditions of this permit.

b. The information provided by you in support of your permit application proves to have been false, incomplete, or inaccurate (See 4 above).

c. Significant new information surfaces which this office did not consider in reaching the original public interest decision.

Such a reevaluation may result in a determination that it is appropriate to use the suspension, modification, and revocation procedures contained in 33 CFR 325.7 or enforcement procedures such as those contained in 33 CFR 326.4 and 326.5. The referenced enforcement procedures provide for the issuance of an administrative order requiring you to comply with the terms and conditions of your permit and for the initiation of legal action where appropriate. You will be required to pay for any corrective measures ordered by this office, and if you fail to comply with such directive, this office may in certain

situations (such as those specified in 33 CFR 209.170) accomplish the corrective measures by contract or otherwise and bill you for the cost.

6. Extensions. General Condition 1 establishes a time limit for the completion of the activity authorized by this permit. Unless there are circumstances requiring either a prompt completion of the authorized activity or a reevaluation of the public interest decision, the Corps will normally give favorable consideration to a request for an extension of this time limit.

Your signature below, as permittee, indicates that you accept and agree to comply with the terms and conditions of this permit.

\_\_\_\_\_  
Benjamin Storey  
Southcoast Region Environmental Manager  
Alaska Department of Transportation and Public Facilities

\_\_\_\_\_  
(DATE)

This permit becomes effective when the Federal official, designated to act for the Secretary of the Army, has signed below.

\_\_\_\_\_  
FOR (DISTRICT COMMANDER)  
Colonel Damon A. Delarosa  
Randal P. Vigil  
South Branch, Regulatory Division

\_\_\_\_\_  
(DATE)

When the structures or work authorized by this permit are still in existence at the time the property is transferred the terms and conditions of this permit will continue to be binding on the new owner(s) of the property. To validate the transfer of this permit and the associated liabilities associated with compliance with its terms and conditions have the transferee sign and date below.

\_\_\_\_\_  
(TRANSFEREE)

\_\_\_\_\_  
(DATE)