

## 17.49. Letter of Partial Completion



THE STATE  
of **ALASKA**  
GOVERNOR BILL WALKER

### Department of Transportation and Public Facilities

December 6, 2016

RE: Becker Highway  
111 South Rehabilitation  
Project Number

Partial Completion 105-1.14  
Maintenance 105-1.13

Mr. Stephen Waterman  
Velcro Contractors  
1574 Haslemere Loop  
Eagle River, Alaska 99577

Dear Mr. Waterman:

An inspection on a segment of the project identified as Miles 117 to 120, was held on August 21, 2016. All items of the contract, with the exception of those listed below, were found to have been constructed according to contract requirements within the identified segment. The Department will take Partial Completion and resume maintenance on the completed segment, except for the following items of work:

1. Repair of damaged culverts; and
2. Correction of workmanship deficiencies on culvert thaw pipes.
3. Permanent grass and plant establishment.

This partial completion and resumption of maintenance was effective as of 5:00 p.m. Friday, August 21, 2016.

As per Section 105-1.15 of the Specifications, the contract completion date remains June 27, 2017 and the contract time will continue to be charged until Project Completion.

This Partial Completion neither voids or alters any Contract terms.

Sincerely,

Group Chief/PM

CC: Maintenance and Operations

*"Keep Alaska Moving through service and infrastructure."*

## 17.50. Letter of Project Completion

December 6, 1992

RE: Becker Highway  
111 South Rehabilitation  
F-670(1)/48701

Project Completion 105-1.15

Mr. Stephen Waterman  
Velcro Contractors  
1574 Haslemere Loop  
Eagle River, Alaska 99577

Dear Mr. Waterman:

A final inspection was held on August 21, 1992 with the following people in attendance:

All work was found to have been completed in substantial conformance with the contract and is accepted by the Department as of 1:00 p.m. August 21, 1992. Contract time was stopped as of that date.

This acceptance does not relieve you of your remaining obligations under the contract.

Warm regards,

Group Chief/PM

cc: FAA/FHWA  
Maintenance & Operations  
Planning  
Statewide Civil Rights Office

17.51. Letter of Wage and Hour Compliance Tax Clearance

**MEMORANDUM**

**State of Alaska**

Department of Transportation & Public Facilities

**TO:** Patricia Woodward  
Wage and Hour Technician  
Department of Labor  
MS 0700

**DATE:** September 2, 1992

**FILE NO:**  
**TELEPHONE NO:** (907) 465-2707  
**FAX NUMBER:**  
**TEXT TELEPHONE:**

**FROM:** John R. Edwards  
Construction Chief  
Marine Engineering  
AMHS

**SUBJECT:** Project No. 75221/MT-671  
Auke Bay F.T. East Bridge  
Recoat, Phase I  
Clearance

Please advise whether or not clearance is granted for the below listed contractor.

Dunkin and Bush, Inc.  
P.O. Box 807  
Redmond, Washington 98073

*no certified  
payrolls received  
as of today*

Time Worked: July 15, 1992 to August 15, 1992

Chapter 85, SLA 1982 requires that the State now pay interest on contractor's final pay requests if payment is not made within 30 days.

If within 14 calendar days, we do not receive written notice from your office of an outstanding deficiency or failure to file required reports, we will process this contractor's final pay estimate for payment.

- ( ) Clearance granted for final payment.
- Clearance not granted for final payment.

Remarks:

RECEIVED  
SEP 08 1992  
Wage and Hour  
Juneau

*Patricia Woodward*  
\_\_\_\_\_  
Signature  
*Wage & Hour Technician*  
\_\_\_\_\_  
Title  
*9-2-92*  
\_\_\_\_\_  
Date

17.52. Master Materials Certification List (MCL) sample

1/4/2005

**MASTER MATERIALS CERTIFICATION LIST**

Specification	Qualified Products List	Construction		QA/ Materials Engineer	Design			Statewide Materials Engineer	Manufacturer/ Remarks	Certificate Location e.g. Binder #
		Project Engineer	Engineer		Design Engineer	Bridge Engineer	Traffic Design Engineer			
2004										

Project Name

Project Number

Project Engineer Signature

**202 REMOVAL OF STRUCTURES AND OBSTRUCTIONS**

Timber

Pressure Treating

Steel Pipe

Galvanization

Steel Fasteners

Galvanization

Reflectors

Yellow Acrylic

Reflective Sheeting

Mailboxes

**306 ASPHALT TREATED BASE COURSE**

Mix Design

202-2.01										
202-2.01										
202-2.01										
202-2.01										
202-2.01										

202-2.01										
202-2.01										
Std. DWG. M-20 & M-23										

306-3.01										
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**17.53. Materials Testing Summary**

**STATE OF ALASKA  
DOT/PF SOUTHEAST REGION  
MATERIALS TESTING SUMMARY SHEET**

PROJECT NAME: Sitka Lake & Lincoln Traffic Improvements PROJECT NO.: 67960

ITEM & QUANTITY	FREQUENCY	DOCUMENTATION REQUIRED
<div style="border: 1px solid black; width: 100px; height: 15px; margin-bottom: 5px;"></div> <p><b>COMMON EXCAVATION</b></p> <div style="border: 1px solid black; width: 100px; height: 15px; margin-top: 10px; text-align: center;">CY</div> <p><b>for USEABLE quantity :</b></p> <div style="border: 1px solid black; padding: 5px; font-size: small;"> <p><u>Note:</u> Unclassified Ex. will be labeled for the zone in which it is placed. For example: Unclassified Ex. used in the "A" zone will be labeled as: EXA-SD- or EXA-G- or EXA-D-. Unclassified Ex. which is wasted will receive the designation of EXW-G- and be written up on a gradation sheet describing the nature of the waste material in the remarks section.</p> </div> <div style="border: 1px solid black; padding: 5px; font-size: small; margin-top: 10px;"> <p>**If Unclassified Ex. is used in the "A" or "B" zone(s), PI tests will be performed at 1 / 5000 CY from <u>any</u> source.</p> </div>	<p style="text-align: center;"><b>AS REQUIRED BASED ON CHANGES IN MATERIAL</b></p> <div style="border: 1px solid black; width: 100px; height: 15px; margin-top: 10px; text-align: center;">As Req'd.</div> <div style="border: 1px solid black; width: 100px; height: 15px; margin-top: 5px; text-align: center;">1 / 5000 CY</div> <div style="border: 1px solid black; width: 100px; height: 15px; margin-top: 10px; text-align: center;">As Req'd.</div> <div style="border: 1px solid black; width: 100px; height: 15px; margin-top: 5px; text-align: center;">1 / 5000 CY</div> <div style="border: 1px solid black; width: 100px; height: 15px; margin-top: 10px; text-align: center;">As Req'd.</div> <div style="border: 1px solid black; width: 100px; height: 15px; margin-top: 5px; text-align: center;">1 / 5000 CY</div> <div style="border: 1px solid black; padding: 5px; font-size: x-small; margin-top: 10px;"> <p>*A minimum of 1 gradation per 5000 CY of waste material is required.</p> </div>	<p><b>STANDARD DENSITY</b></p> <p>CX - SD - _____</p> <hr/> <p><b>ACCEPTANCE Gradation, PI**</b></p> <p>_____</p> <hr/> <p><b>Density</b></p> <p>_____</p> <hr/> <p>_____</p> <hr/> <p>_____</p> <hr/> <p><b>Waste Gradation*</b></p> <p>_____</p> <hr/>
	<div style="border: 1px solid black; width: 100px; height: 15px; margin-top: 10px; text-align: center;">As Req'd.</div> <div style="border: 1px solid black; width: 100px; height: 15px; margin-top: 5px; text-align: center;">1 / 50,000 CY</div>	<p><b>ASSURANCE Standard Density</b></p> <p>_____</p> <hr/> <p><b>Density</b></p> <p>_____</p> <hr/> <p>_____</p> <hr/>

17.54. Oil and Hazardous Substances Spill Notifications (2 DEC Forms)



ALASKA DEPARTMENT OF ENVIRONMENTAL CONSERVATION  
**OIL & HAZARDOUS SUBSTANCES SPILL NOTIFICATION FORM**

ADEC USE ONLY

ADEC SPILL #:		ADEC FILE #:		ADEC LC:	
PERSON REPORTING:		PHONE NUMBER:		REPORTED HOW? (ADEC USE ONLY) <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> Troopers	
DATE/TIME OF SPILL:		DATE/TIME DISCOVERED:		DATE/TIME REPORTED:	
INCIDENT LOCATION/ADDRESS:		DATUM: <input type="checkbox"/> NAD27 <input type="checkbox"/> NAD83 <input type="checkbox"/> WGS84 <input type="checkbox"/> Other _____		PRODUCT SPILLED:	
		LAT. _____			
		LONG. _____			
QUANTITY SPILLED: <input type="checkbox"/> gallons <input type="checkbox"/> pounds	QUANTITY CONTAINED: <input type="checkbox"/> gallons <input type="checkbox"/> pounds	QUANTITY RECOVERED: <input type="checkbox"/> gallons <input type="checkbox"/> pounds	QUANTITY DISPOSED: <input type="checkbox"/> gallons <input type="checkbox"/> pounds		
POTENTIAL RESPONSIBLE PARTY:		OTHER PRP, IF ANY:		VESSEL NAME:	
Name/Business:				VESSEL NUMBER:	
Mailing Address:					
Contact Name:					
Contact Number:				> 400 GROSS TON VESSEL: <input type="checkbox"/> Yes <input type="checkbox"/> No	
SOURCE OF SPILL:				CAUSE CLASSIFICATION:	
CAUSE OF SPILL:		<input type="checkbox"/> Under Investigation		<input type="checkbox"/> Accident <input type="checkbox"/> Human Factors <input type="checkbox"/> Structural/Mechanical <input type="checkbox"/> Other	
CLEANUP ACTIONS:					
DISPOSAL METHODS AND LOCATION:					
AFFECTED AREA SIZE:	SURFACE TYPE: (gravel, asphalt, name of river etc.)		RESOURCES AFFECTED/THREATENED: (Water sources, wildlife, wells, etc.)		
COMMENTS:					

ADEC USE ONLY

SPILL NAME:		NAME OF DEC STAFF RESPONDING:		C-PLAN MGR NOTIFIED? <input type="checkbox"/> Yes <input type="checkbox"/> No	
DEC RESPONSE: <input type="checkbox"/> Phone follow-up <input type="checkbox"/> Field visit <input type="checkbox"/> Took Report		CASELOAD CODE: <input type="checkbox"/> First and Final <input type="checkbox"/> Open/No LC <input type="checkbox"/> LC Assigned		CLEANUP CLOSURE ACTION: <input type="checkbox"/> NFA <input type="checkbox"/> Monitoring <input type="checkbox"/> Transferred to CS or STP	
COMMENTS:		Status of Case: <input type="checkbox"/> Open <input type="checkbox"/> Closed		DATE CASE CLOSED:	
REPORT PREPARED BY:		DATE:			

Revised 2/5/2008



State of Alaska  
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

## OIL & HAZARDOUS MATERIALS INCIDENT FINAL REPORT

*The following written report is required by State regulations 18 AAC 75.300(e), following departmental notification of a discharge of oil and hazardous materials. The report is due within 15 days after the cleanup is completed, or if no cleanup occurs, within 15 days after the discharge. Forward the report to the nearest DEC office of the department. The report must contain, as applicable:*

1. Date and time of the discharge:	
2. Location of the discharge:	
3. Name of the site, facility or operation:	
4. Name, mailing address, and telephone number of:	
A. Person or persons causing or responsible for the discharge:	B. Owner and operator of the site, facility or operation:
_____	_____
_____	_____
_____	_____
_____	_____
5. Type and amount of each oil or hazardous substance discharged:	
6. Cause of the discharge:	
7. Description of any environmental damage caused by the discharge or containment, to the extent the damage can be identified:	

<b>8. Description of cleanup actions taken:</b>	
<b>9. Estimated amount of:</b>	
(A) oil or hazardous substance cleaned up:	(B) oily or hazardous waste generated:
<b>10. Date, location, and method of ultimate disposal of the oil, hazardous substance and any contaminated materials, including cleanup materials:</b>	
<b>11. Description of actions being taken to prevent recurrence of the discharge:</b>	
<b>12. Other information the department requires to fully assess the cause and impact of the discharge (receipts for disposal if available):</b>	
<b>Signature</b>	<b>Printed name</b>
<b>Date</b>	<b>Title</b>

**MAIL OR FAX TO the Closest A.D.E.C. Office below**

**Anchorage**  
Phone: 269-3063  
Fax: 269-7648  
555 Cordova Street  
Anchorage, AK 99501

**Fairbanks**  
Phone: 451-2121  
Fax: 451-2362  
610 University Ave.  
Fairbanks, AK 99709-3643

**Juneau**  
Phone: 465-5340  
Fax: 465-2237  
410 Willoughby Ave., Suite 309  
Juneau, AK 99801-1795

<b>DEC USE ONLY</b>	
ADEC Project Manager:	ADEC Spill #:



17.55. OJT-Apprentice/Trainee Employee Report (25A-312)



STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

APPRENTICE EMPLOYMENT REPORT

The contractor/approved subcontractor must submit this report to the Engineer for approval each construction season on or before the date that each apprentice is hired or rehired. Section 645 Training is intended for minorities and women. If a contractor wishes to train a non-minority male for credit under Section 645, the contractor must submit documentation of good faith efforts (specified in 645-2.01) to the Engineer. There will be no payment for training hours prior to the approval of this completed report and verification of applicable good faith efforts.

Project Number (Federal/State)		Project Name	
Contractor		Apprentice <sup>1</sup> Name	
Apprentice Social Security No.	Date of Birth	Apprentice Start Date (this project)	
Apprentice Mailing Address		Email Address	
Job Class	Wage Scale <sup>2</sup>	Percentage of Journey Scale _____ %	
Employee Status: New Hire <input type="checkbox"/> Re-hire <input type="checkbox"/> Upgrade <input type="checkbox"/> Transfer <input type="checkbox"/>			
Gender Male <input type="checkbox"/>	Ethnicity: Alaska Native <input type="checkbox"/>	Hispanic <input type="checkbox"/>	American Indian <input type="checkbox"/>
Female <input type="checkbox"/>	Asian/Pacific Islander <input type="checkbox"/>	Caucasian <input type="checkbox"/>	African American <input type="checkbox"/>
Signature of Authorized Company Representative		Date	
Point of Contact		Phone	
Address		Email Address	
For the Engineer:			
Did the apprentice (s) start training within two (2) weeks of the start date indicated on Form 25A311.			
Yes <input type="checkbox"/> No <input type="checkbox"/>			
Signature of Engineer		Date Approved for Credit	
<sup>1</sup> An apprentice is a person enrolled in a USDOL/OA training program (union or non-union) <sup>2</sup> A copy of a union dispatch list must accompany this form for each union apprentice hire.			

Distribution after approval by Engineer to: Project Files  
Regional Contract Compliance Liaison  
Civil Rights Office, P.O. Box 196900, Anchorage, Alaska 99519-6900  
Contractor

25A-312  
(REV. 1/12)

17.56. OJT- Monthly Training Report (Form 25A-313)



STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

**MONTHLY TRAINING REPORT**

The contractor must fill in the project (Section 645) training hours each month using the table below. The Contractor should retain the original, updating it monthly while the apprentice(s) remain on the project. The Contractor is required to submit copies of each months' updated report by the 15<sup>th</sup> of the following month.

Project Number (Federal/State)						Project Name					
Contractor Name						Point of Contact			Phone		
Apprentice Name						Social Security Number			Job Class		
Gender		Male <input type="checkbox"/>		Female <input type="checkbox"/>		Ethnicity: Alaska Native <input type="checkbox"/>		American Indian <input type="checkbox"/>		Hispanic <input type="checkbox"/>	
						Asian/Pacific Islander <input type="checkbox"/>		Caucasian <input type="checkbox"/>		African American <input type="checkbox"/>	
Anticipated Start Date For Apprentice (From Form 25A-311): _____											
Date Employee Started On This Project: _____											
Date Apprentice Employment Report Approved by the Engineer (From Form 25A-312): _____											
1 <sup>st</sup> YEAR - _____											
JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEP	OCT	NOV	DEC
2 <sup>nd</sup> YEAR - _____											
JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEP	OCT	NOV	DEC
3 <sup>rd</sup> YEAR - _____											
JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEP	OCT	NOV	DEC
When the apprentice separates from this project an explanation must be given:											
<input type="checkbox"/> End of work		<input type="checkbox"/> Seasonal shutdown		<input type="checkbox"/> Terminated for cause		<input type="checkbox"/> Quit					
What was the last date worked by the apprentice on this project? _____											
I certify that this form has been examined by me and to the best of my knowledge and belief, is true, correct and complete.											
 Signature of Contractor						 Date					

Send to: Project Files  
Civil Rights Office, OJT Coordinator, P.O. Box 196900, Anchorage, Alaska 99519-6900

25A-313  
(REV. 1/12)

17.57. OJT Training Utilization (Form 25A-311)



STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

**TRAINING UTILIZATION REPORT**  
Federal-Aid Highway Contracts

Project Name and Number \_\_\_\_\_

Training Program Special Provision, Section 645 specifies the number of minorities and/or women to be trained and the number of hours of training to be provided under this Contract; the Contractor may train non-minority males in compliance with Section 645, but only if documentation of good faith efforts has been submitted to, and approved by, the Engineer, prior to the employment of such non-minority male(s). Good faith efforts, at a minimum, must be as extensive as the recruitment efforts listed in the EEO Bid Conditions (Form 25A-301).

The number of individuals to be trained under this Contract is \_\_\_\_\_.

The number of hours of training to be provided is \_\_\_\_\_.

This Training Special Provision implements 23CFR 230, Subpart A, Appendix B. Contractors can use either training programs approved by the U.S. Department of Labor, Office of Apprenticeship (USDOL/OA), or training programs approved by DOT&PF. The Contractor must complete this form indicating the type of training to be provided, the number of individuals to be trained in each trade or job classification, the number of hours of training to be provided,<sup>3</sup> and the anticipated training start date.

1. To be completed by Contractors using USDOL/OA Training Programs: Indicate below the number of apprentices, total number of hours, type of training, and anticipated start dates for each craft selected:

**APPROVED CRAFTS, CERTIFICATION NUMBERS AND JURISDICTIONAL AREAS**

STATEWIDE JURISDICTION				SOUTH OF THE 63° PARALLEL			
Craft/Cert Number	No. of Appr.	No. of Hrs.	Start Date	Craft/Cert Number	No. of Appr.	No. of Hrs.	Start Date
Asbestos Worker #90032				Carpenter #74032			
Bricklayer #85040				Painter #72820			
Cement Mason & Plasterer #78533				Pipefitter #72586			
Electrician #81299				Plumber #83534 <sup>1</sup>			
Ironworker #76779				Sheetmetal Worker #74072			
Op. Engineer #X90349				Other # _____			
Roofer #X90317				<b>NORTH OF THE 63° PARALLEL</b>			
Piledriver <sup>2</sup> (3/30/75)				Carpenter #47990			
Camp Culinary <sup>2</sup> (4/25/74)				Painter #77750			
Laborer #XAK92T017				Fitter/Plumber #75055			
Other # _____				Sheetmetal #76781			
Other # _____				Other # _____			
				Other # _____			

1. Juneau Jurisdictional area is #83534 and Anchorage area is #72586.
2. U.S. DOL does not assign Certification numbers to these training programs. Only approval dates.
3. The total number of hours of training shall equal the hours of training shown in the Bid Schedule, Pay Item 645(1).

2. To be completed by Contractors using DOT&PF training programs: Indicate below the type of training, number of trainees, number of hours of training (500 hours per trainee), and anticipated start dates.

Job Classification	No. Trainees	Total No. Hrs.	Anticipated Start Date(s)
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

3. To be completed by all Contractors as part of the Contractor's EEO affirmative action program, the Contractor certifies that all training will be provided by the Contractor as stated in items 1 OR 2 above, in accordance with Training Program Special Provision, Section 645.

\_\_\_\_\_ Company Name \_\_\_\_\_ Company Address

\_\_\_\_\_ Point of Contact \_\_\_\_\_ E-mail / Phone Number

\_\_\_\_\_ Signature of Authorized Company Representative \_\_\_\_\_ Date

**To be completed by the DOT&PF OJT Coordinator prior to contract award:  
Training Program(s) approve for this Project and Date Approved:**

Training Program	Trainee (s) / Apprentice (s)	Hours	Date Approved

\_\_\_\_\_ Signature of DOT&PF OJT Coordinator \_\_\_\_\_ Date

## **17.58. Outline for Force Account Proposal**

The Force Account Proposal shall include:

- Project Title,
- Airport Improvement Number,
- Location
- Estimated work days for inspection services
- Identify Consultant Use
- Scope of Services
- Cost Estimate

### **Scope of Services**

**The scope of services includes: project management, on-site inspection, materials testing, support sections, concurrent review and project closeout. Use the following lists as a menu of services. Eliminate those items that are not applicable for a given project.**

#### **Project management**

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1. Receive and respond to pre-bid questions.
2. Conduct Pre-Bid Conference, if applicable.
3. Evaluate bid results.
4. Establish project budget, including contract administration costs.
5. Review and approve DBE Utilization Report.
6. Make recommendation of award.
7. Assign project staff.
8. Conduct Pre-Construction Conference.
9. Prepare a Construction Management Plan, if necessary.
10. Supervise project staff, and oversee their work.
11. Provide clerical support.
12. Make periodic site visits to inspect the work.
13. Coordinate with other affected parties, including funding agency and local agencies.
14. Administer consultant contracts, if applicable.
15. Approve contractor payments.
16. Approve procurements.
17. Review and approve Change Orders and Supplemental Agreements.

18. Prepare Waiver Requests for Alternate Procurement Methods, when necessary.
19. Monitor project budget and submit Funding Requests as necessary to adjust funding.
20. Review and approve subcontracts.
21. Monitor external affirmative action compliance (EEO, DBE, and OJT programs).
22. Review, research, and respond to contractor claims.
23. Issue final acceptance to the contractor.
24. Sign FAA Sponsor Certifications, as required.
25. Update the Airport Master Record (FAA 5010), if necessary.

### **On-site inspections**

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1. Familiarization with contract documents and project site.
2. Establish a project office.
3. Set up all project files, books, and records.
4. Document all construction activities through use of project journals, inspectors daily reports, and photographs.
5. Review contractor submittals (schedule, shop drawings, TCP, SWPPP, HMCP) and forward to support sections for comment and/or approval.
6. Inspect all work for compliance with contract requirements.
7. Interpret intent of Plans and Specifications when questions arise.
8. Make adjustments to the design to better fit field conditions.
9. Document acceptance of all completed work.
10. Conduct periodic (sometimes-weekly) coordination meetings on complex projects.
11. Measure and document all pay quantities.
12. Prepare and submit Bi-Weekly Construction Reports.
13. Prepare progress estimates of contractor payments.
14. Coordinate design clarifications and changes with support sections.
15. Forward materials submittals and shop drawings to the appropriate support section.
16. Conduct monthly safety meetings.
17. Monitor effectiveness of contractor's traffic control.
18. Forward work zone accident reports to the Regional Traffic Engineer.
19. Monitor effectiveness of contractor's storm water control measures.
20. Monitor contractor's adherence to environmental permits.
21. Monitor contractor's adherence to legal loads.

22. Monitor project budget and anticipate cost overruns.
23. Issue Directives and Interim Work Authorizations.
24. Prepare Change Orders and Supplemental Agreements.
25. Author Engineer's Decision in response to contractor claims.
26. Resolve issues with facility users and adjacent property owners and businesses.
27. Coordinate and document a Final Inspection.
28. Prepare project As-Builts.
29. Update Exhibit "A" Property Map, ALP and Sign Plan to reflect as constructed conditions and forward to FAA.
30. Prepare the Final Assembly, including the Final Estimate.

### **Materials testing**

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1. Establish an itemized, project specific Materials Testing Frequency Guide.
2. Gather, inspect, and maintain all required testing equipment.
3. Set up on-site materials testing lab trailer, if needed.
4. Set up materials testing files.
5. Coordinate off-site inspections of fabricated items.
6. Coordinate reviews and approvals of submittals of all manufactured items, including Manufacturer's Certificates of Compliance for all materials incorporated into manufactured items.
7. Perform and document all quality tests in accordance with the Frequency Guide and contract specified test methods.
8. Perform and document all acceptance tests in accordance with project specifications.
9. Perform and document any retests required as a result of failing acceptance tests.
10. Perform and document all independent assurance tests in accordance with project specifications.
11. Monitor compliance with "Buy America" and "Buy American" requirements.
12. Evaluate and document asphalt test results under the Asphalt Price Adjustment specification, if applicable.
13. Assemble a Project Materials Testing Summary at the completion of the project.
14. Issue a signed Project Materials Certification.

### **Support sections**

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1. Design and drafting support during construction.

2. Evaluation and approval of mix designs for concrete and hot mix asphalt.
3. Periodic environmental reviews, as needed.
4. Environmental permit modifications, as needed.
5. Geotechnical support during construction, as needed.
6. Right-of-way support during construction, as needed.
7. Utilities support during construction, as needed.
8. Traffic support during construction, as needed.
9. Plans room support during construction, as needed.
10. Maintenance support during construction, as needed.
11. Airport Manager or Airport Safety Officer support, as needed.

### **Concurrent review and project closeout**

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1. Periodic concurrent records reviews, as needed (except on small projects).
2. Review contractor payments.
3. Review Change Orders and Supplemental Agreements.
4. Comprehensive records review at project completion.
5. Request labor and tax clearances.
6. Assemble final closeout package, including final estimate and contractor's release.
7. Prepare FAA Sponsor Certifications, as required.
8. Assemble FAA Grant closeout package and submit to Project Control.
9. Archive project records.

<i>Cost Estimate for Scope of Services</i>					
<b>Item</b>	<b>Reg Rate</b>	<b>OT Rate</b>	<b>Reg Hrs</b>	<b>OT Hrs</b>	<b>Total Cost/Item</b>
<b>Project Management</b>					
Position 1					
Position 2					
Position 3					
Position 4					
<b>On site inspections</b>					
Position 1					
Position 2					



<b>Item</b>	<b>Reg Rate</b>	<b>OT Rate</b>	<b>Reg Hrs</b>	<b>OT Hrs</b>	<b>Total Cost/Item</b>
Position 3					
Position 4					
<b>Materials testing</b>					
Position 1					
Position 2					
Position 3					
Position 4					
<b>Support sections</b>					
Position 1					
Position 2					
Position 3					
Position 4					
<b>Concurrent review &amp; project closeout</b>					
Position 1					
Position 2					
Position 3					
Position 4					
<b>Direct Costs</b>					
Travel					
Per diem					
Supplies					
<b>Subtotal</b>					
<b>ICAP rate</b>					
<b>Project Total Cost</b>					

**17.59. Pile Driving Equipment Data (Form 25D-098)**

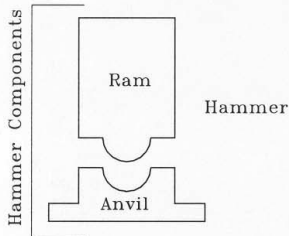


**State of Alaska  
Department of Transportation and Public Facilities**

**Pile Driving Equipment Data**

Project: \_\_\_\_\_ Structure name: \_\_\_\_\_

Project No.: \_\_\_\_\_ Structure no.: \_\_\_\_\_



Manufacturer: \_\_\_\_\_ Model: \_\_\_\_\_

Type: \_\_\_\_\_ Serial No.: \_\_\_\_\_

Ram weight: \_\_\_\_\_

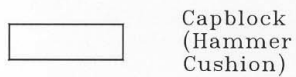
Maximum

Rated energy: \_\_\_\_\_ at \_\_\_\_\_ length of stroke

Modifications: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_



Material: \_\_\_\_\_

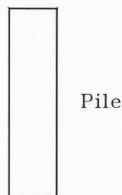
Thickness: \_\_\_\_\_ Area: \_\_\_\_\_

Modulus of Elasticity: \_\_\_\_\_ (P.S.I.)

Coefficient of restitution: \_\_\_\_\_



Weight: \_\_\_\_\_



Pile type: \_\_\_\_\_

Length (in leads): \_\_\_\_\_

Wall thickness: \_\_\_\_\_

Description of splice: \_\_\_\_\_

\_\_\_\_\_

Tip treatment description: \_\_\_\_\_

\_\_\_\_\_

Submitted by: \_\_\_\_\_

Date: \_\_\_\_\_



## 17.61. Pile Log-Boring Log (Form 25D-046)



Page \_\_\_\_\_ of \_\_\_\_\_

STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES

PILE LOG-BORING LOG					
PILE LOG		ELEV.	BORING LOG #		
Blows Ft.	Bearing Capacity		Material Description	Blows/Ft. 2" Sampler	
					Bridge _____
					Project _____
					Pile Type _____
					Location _____
					Date Driven _____
					Hammer Type _____
					Manufacturer _____
					Model _____
					Manufacturer's Rated Energy _____
					Remarks
					Prepared by: _____
					Date _____

25D-046 (4-98)

## 17.62. Preconstruction Conference Synopsis

### PRECONSTRUCTION CONFERENCE SYNOPSIS

DATE HELD: \_\_\_\_\_

Prior to starting, outline procedures for conducting conference:

- |   |   |
|---|---|
| (1) Informal.   | (2) Everyone to sign attendance sheet.                                  |
| (3) Restrict comments to subjects germane to project. | (4) Each individual to <b>state name</b> prior to making any statement. |

Distribution of Copies:  Project Engineer      Date Copied: \_\_\_\_\_  
 Contractor  
 Civil Rights  
 Original to File

This is a preconstruction conference pertaining to: \_\_\_\_\_

Federal Project Number: \_\_\_\_\_ State Project Number: \_\_\_\_\_

Bids were opened (date): \_\_\_\_\_

The contract was awarded to (contractor & address): \_\_\_\_\_

The Intent to Award was issued on (date): \_\_\_\_\_

in the amount of: \$ \_\_\_\_\_ with a completion of: \_\_\_\_\_

The Notice to Proceed was issued on (date): \_\_\_\_\_ **NOTE: Must have evidence of Notice of Work (NOW) from Department of Labor prior to issuing the NTP.**

I. INTRODUCTION OF PERSONNEL:

A. Each person to introduce themselves and whom they represent.

II. ADMINISTRATION:

a. Statement as to:

1. Project Engineer is: \_\_\_\_\_

2. DOT&PF Engineer-in-Charge is: \_\_\_\_\_  N/A

3. Project Manager is: \_\_\_\_\_

4. All matters concerning the project are to be handled through the Project Engineer and the Project Manager as far as practical. If it cannot be resolved at those levels, contact \_\_\_\_\_ Construction Group Chief at 269-0\_\_\_\_.

b. One copy of all correspondence given to Project Engineer to be also sent to the Project Manager at Regional Construction Office at \_\_\_\_\_.

c. **Project name and number will appear on all correspondence to and from the contractor.**

d. Mailing address for project (if applicable)? \_\_\_\_\_

e. Ask contractor for their:

1. Mailing Address: \_\_\_\_\_
2. Copies of correspondence to "home office"?  YES  NO
3. Name of individual directly in charge of project: \_\_\_\_\_  
Letter stating above received?  YES  NO
4. Who has authority to sign:
  - a. Change Order: \_\_\_\_\_
  - b. Directives: \_\_\_\_\_  
Letter stating above received?  YES  NO
5. Who will be the EEO & DBE officer? \_\_\_\_\_  
Letter stating above received?  YES  NO

e. Introduction of Contracts and EEO Officer for State who will discuss:

1. Training (if in contract)
2. EEO Requirements
3. Subcontract Requirements and Present Contractor with Necessary Forms and Posters.
4. Certified Weekly Payrolls (Copy to Department of Labor)
5. Railroad Insurance (When applicable)
6. Questions regarding Directives and Change Orders - Procedures for issuing.
7. Blue Book Rental Rate Book - Latest Copy and Revisions.

f. Statements of General Nature By: (Comments attached if critical.)

1. Utilities Engineer
2. Right of Way Agent
3. Traffic Engineer
4. Materials Engineer
5. Project Engineer
6. Other Representatives (Environmental, The Alaska Railroad)

- g. Has contractor submitted Progress Schedule?  YES  NO  
Discussion. (Section 108-1.03 or CGP-80-03 a.)
- h. Has contractor submitted Construction Phasing Plan?  YES  NO  N/A for Aviation  
Discussion. (Section 643-1.05)
- i. Has contractor submitted Temporary Erosion & Pollution Control/SWPPP & Hazardous  
Materials Control Plan?  YES  NO Discussion. (Section 108-1.03 or GCP-80-03 d.)
- j. Has contractor submitted a list showing anticipated material procurement dates?  YES  NO  
(Section 108-1.03 or GCP-80-03 b.)
- k. Has contractor submitted a list showing proposed subcontractors and materials  
suppliers?  YES  NO (Section 108-0.03 or GCP-80-03 c.)
- l. Has contractor submitted a QC Plan (Section 106-1.03 or GCP-100-02)?  YES  NO

Preconstruction Conference  
Synopsis

Page 3

- m. Has contractor submitted a Wastewater Treatment Plan?  YES  NO  N/A for Aviation  
(Section 510-3.04)
- n. Has contractor submitted a Submittal Register? (GCP-60-08)  YES  NO  N/A for Highways
- o. Bid Items Discussed. (Comments attached if critical.)
- p. General Discussion and Additional Comments.
- q. Conference Closed.

**PRECONSTRUCTION CONFERENCE ATTENDANCE SHEET**

DATE HELD: \_\_\_\_\_

PROJECT NAME: \_\_\_\_\_

PROJECT NO.: \_\_\_\_\_

	PRINTED NAME	TITLE/POSITION	COMPANY
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			



17.63. Progress Estimate

Northern		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES PROGRESS ESTIMATE				Contractor: Paving Products, Inc.			
Cowles Street at Airport Way Southbound Lane Addition		HRO-0641(1)/66144				Address: P.O. Box 80430 Fairbanks Alaska, 99708			
Estimate #:		For Period:		to					
Description	Unit	Plan		Previous		This Estimate		Totals to Date	
		Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount
DBE Adjustment	C.S.		\$5,000.00	0	\$0.00		\$0.00	0	\$0.00
Removal of Structures and	L.S.	All Req'd	\$8,400.00	0.0%	\$0.00		\$0.00	0	\$0.00
Obstructions	0	0	\$0.00	0	\$0.00		\$0.00	0	\$0.00
Unclassified Excavation	L.S.	All Req'd	\$14,700.00	0.0%	\$0.00		\$0.00	0	\$0.00
Borrow, Select Material Type A	L.S.	All Req'd	\$18,500.00	0.0%	\$0.00		\$0.00	0	\$0.00
Crushed Aggregate Base	L.S.	All Req'd	\$19,200.00	0.0%	\$0.00		\$0.00	0	\$0.00
Course Grading D-1	0	0	\$0.00	0	\$0.00		\$0.00	0	\$0.00
Asphalt Concrete, Type II	L.S.	All Req'd	\$35,000.00	0.0%	\$0.00		\$0.00	0	\$0.00
Class B	0	0	\$0.00	0	\$0.00		\$0.00	0	\$0.00
CSS-1 Emulsified Asphalt for	L.S.	All Req'd	\$1,250.00	0.0%	\$0.00		\$0.00	0	\$0.00
Prime Coat	0	0	\$0.00	0	\$0.00		\$0.00	0	\$0.00
12 Inch Corrugated Steel Pipe	L.S.	All Req'd	\$2,200.00	0.0%	\$0.00		\$0.00	0	\$0.00
Drop Inlet Type A	Each	1	\$1,500.00	0	\$0.00		\$0.00	0	\$0.00
Relocate Inlet	Each	1	\$750.00	0	\$0.00		\$0.00	0	\$0.00
Concrete Sidewalk	L.S.	All Req'd	\$33,000.00	0.0%	\$0.00		\$0.00	0	\$0.00
Sidewalk Ramp	Each	6	\$2,100.00	0.0%	\$0.00		\$0.00	0	\$0.00
Curb & Gutter	L.S.	All Req'd	\$46,300.00	0.0%	\$0.00		\$0.00	0	\$0.00
Standard Signs	S.F.	125.75	\$5,533.00	0	\$0.00		\$0.00	0	\$0.00
Seeding	L.S.	All Req'd	\$3,000.00	0.0%	\$0.00		\$0.00	0	\$0.00
Topsoil	L.S.	All Req'd	\$7,700.00	0.0%	\$0.00		\$0.00	0	\$0.00
Fire Hydrant Installation	Each	1	\$7,300.00	0	\$0.00		\$0.00	0	\$0.00
Adjustment of Valve Box	Each	6	\$450.00	0	\$0.00		\$0.00	0	\$0.00
Lawn Sprinkler Sys. Relocate	L.S.	All Req'd	\$6,000.00	0.0%	\$0.00		\$0.00	0	\$0.00
Water System Relocate	L.S.	All Req'd	\$18,300.00	0.0%	\$0.00		\$0.00	0	\$0.00
Mobilization & Demobilization	L.S.	All Req'd	\$8,000.00	0.0%	\$0.00		\$0.00	0	\$0.00
Temporary Erosion and	L.S.	All Req'd	\$5,000.00	0.0%	\$0.00		\$0.00	0	\$0.00
Pollution Control	0	0	\$0.00	0	\$0.00		\$0.00	0	\$0.00

Northern		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES PROGRESS ESTIMATE				Contractor: Paving Products, Inc.				
Cowles Street at Airport Way Southbound Lane Addition		P.O. Box 80430 Fairbanks Alaska, 99708				Address:				
HRO-0641(1) /66144		Estimate #:		For Period:		to				
Description	Unit	Unit Price	Plan		Previous		This Estimate		Totals to Date	
			Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount
Construction Surveying	L.S.	\$8,125.00	All Req'd	\$8,125.00	0.0%	\$0.00		\$0.00	0	\$0.00
Traffic Maintenance	L.S.	\$14,300.00	All Req'd	\$14,300.00	0.0%	\$0.00		\$0.00	0	\$0.00
Permanent Construction Signs	L.S.	\$1,540.00	All Req'd	\$1,540.00	0.0%	\$0.00		\$0.00	0	\$0.00
Construction Signs	Day	\$2.75	2,000	\$5,500.00	0	\$0.00		\$0.00	0	\$0.00
Type II Barricades	Day	\$1.65	1,000	\$1,650.00	0	\$0.00		\$0.00	0	\$0.00
Type III Barricades	Day	\$4.40	100	\$440.00	0	\$0.00		\$0.00	0	\$0.00
Traffic Cone	Day	\$0.85	1,500	\$1,275.00	0	\$0.00		\$0.00	0	\$0.00
Drum	Day	\$2.20	2,000	\$4,400.00	0	\$0.00		\$0.00	0	\$0.00
Book Drop Relocation	L.S.	\$750.00	1	\$750.00	0.0%	\$0.00		\$0.00	0	\$0.00
	Each	\$715.00	2	\$1,430.00	0	\$0.00		\$0.00	0	\$0.00
	L.S.	\$77,200.00	All Req'd	\$77,200.00	0.0%	\$0.00		\$0.00	0	\$0.00
	Each	\$484.00	12	\$5,808.00	0	\$0.00		\$0.00	0	\$0.00
	L.S.	\$18,600.00	All Req'd	\$18,600.00	0.0%	\$0.00		\$0.00	0	\$0.00
<b>Totals</b>				<b>\$390,201.00</b>		<b>\$0.00</b>		<b>\$0.00</b>		<b>\$0.00</b>

**17.64. Project Completion Form (PCF)**

### PROJECT COMPLETION FORM (PCF)

AKSAS Project Number \_\_\_\_\_ Federal # \_\_\_\_\_ Ledger \_\_\_\_\_ Date \_\_\_\_\_

Project Name \_\_\_\_\_

Movement of each phase of the following project to completed status will be initiated once the phase manager signs certifying that all physical activity relating to their respective phase is complete. Ledger codes will then be inactivated in each completed phase and no further charges will process.

Before closing a phase to further charges, the phase manager must insure that the following steps have been completed:

1. All necessary audits have been completed on all contracts for services over \$1,000 with engineering and right-of-way consultants, utility companies, etc.; list each contract below with final dollar amount followed by audit status.
2. Update the latest cost estimate for your phase and attach to this form.
3. Liquidate all outstanding encumbrances.

If your phase is not yet complete, please indicate the work that remains and an estimated completion date.

Please, complete this form and forward to the next phase manager or return to Project Control, Attn: PCIS, within three days of receipt.

<u>Routing</u>	<u>Phase Complete</u>	<u>Remarks/Contract Audit Status/Resubmittal Date/Signature</u>
<input type="checkbox"/> PH 2 DESIGN ENGR	Yes/No	_____ _____ _____ _____ _____ Signature/Date
<input type="checkbox"/> PH 3 ROW	Yes/No	_____ _____ _____ _____ _____ Signature/Date
<input type="checkbox"/> PH 4 CONSTRUCTION	Yes/No	_____ _____ _____ _____ _____ Signature/Date
<input type="checkbox"/> PH 7 UTILITIES	Yes/No	_____ _____ _____ _____ _____ Signature/Date
<input type="checkbox"/> PH 8 PLAN. & RESEARCH	Yes/No	_____ _____ _____ _____ _____ Signature/Date





17.66. Project Development Authorization

ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES  
PROJECT DEVELOPMENT AUTHORIZATION

AKSAS #:	70134	PROJECT NAME:	JNU THANE ROAD RECONSTRUCTION		CONTACT:	P. MCCALLON	
LEDGER CODE:	306532	DIVISION:	D&C	HOUSE:	67012	PDA #:	20
FEDERAL #:	STP-F-M-0963(1)	MODE:	HWY 79632	STRUCTURE BATCH:	N/A	PFDRS #:	2430097
FMS #:	N/A	REGION:	SOUTHEAST	FINANCIAL BATCH:		PDA AR #:	83024
PROJECT SCOPE:	PE AND RECONSTRUCTION OF THANE ROAD FROM THE FERRY TERMINAL TO MT. ROBERTS ROAD. WORK TO INCLUDE 8.5 METER WIDE ROADWAY, 1.8 & 2.4 METER WIDE SIDEWALKS, CURBING, AND DRAINAGE.						
ACTION REQUEST	INCREASE PHASE 4 FUNDING FOR CONTRACT ITEM FUNDING ADJUSTMENTS, FOR REVISIONS TO FIVE EXISTING CHANGE ORDERS, FOR A PENDING CHANGE ORDER, AND FOR INCREASED C.E. COSTS ASSOCIATED WITH CONTRACT ADMINISTRATION AND DESIGN SUPPORT FOR DESIGN OF THE HISTORICAL MITIGATION CONTRACT WORK. GF MATCH IS FROM FY98 ALLOCATION.						
AUTHORITY TO PROCEED SUMMARY (FRWA)	A MODIFIED AGREEMENT FOR PHASE 4 IS REQUESTED						
<b>PRELIMINARY ENGINEERING</b>		<b>RIGHT OF WAY/UTILITIES</b>		<b>CONSTRUCTION</b>		<b>DISTRIBUTION</b>	
Reconnaissance Study:	1/19/90	Titles & Plans:	3/27/90	ATP with Construction:		2/11/97	PREDESIGN
PE up to Location:	1/5/93	Appraisals & Acquisitions:	8/12/96				ENGINEERING MANAGER
PE thru Final PS&E:	5/15/96	Utility Relocation Work (S):	9/11/96				ENVIRONMENTAL
Final PS&E thru Award (S):	2/11/97						RIGHT OF WAY
<b>PHASE 2 SUMMARY</b>		<b>PHASE 3 SUMMARY</b>		<b>PHASE 4 SUMMARY</b>			
Start Date	1/19/90	Start Date	3/27/90	Start Date	2/11/97	UTILITIES	
Cutoff Date	3/24/97	Cutoff Date	12/31/00	Cutoff Date	12/31/98	CONSTRUCTION GROUP CHIEF	
Federal Ratio	88.68%	Federal Ratio	88.68%	Federal Ratio	90.97%	PLANNING	
Collocation Code	24430355	Collocation Code	24430567	Collocation Code	24431812	MAINTENANCE & OPERATIONS	
Ledger Code	306532-21.22	Ledger Code	306532-31.32	Ledger Code	3065322-41.42	SE. ADMIN. SERVICES	
PARTICIPATING		PARTICIPATING		PARTICIPATING		NON-PAR	
PRIOR TOTAL:	\$1,420,680.00	PRIOR TOTAL:	\$12,570.00	PRIOR TOTAL:	\$10,000.00	\$5,820.00	
CHANGE:	\$0.00	CHANGE:	\$0.00	CHANGE:	\$0.00	\$0.00	
TOTAL:	\$1,420,680.00	TOTAL:	\$12,570.00	TOTAL:	\$10,000.00	\$5,820.00	
PHASE 2 TOTAL:		PHASE 3 TOTAL:		PHASE 4 TOTAL:		\$3,441,692.00	
FEDERAL		GF/ARF					
PHASE 1 TOTAL	\$1,047,551.58						
TOTAL AUTH.	\$8,511,703.58						
PROJECT CONTROL							
				DATE			
SOUTHEAST REGIONAL DIRECTOR							
				DATE			
HEADQUARTERS PLANNING							
				DATE			
DATE PROCESSED							
				DATE			
NOT REQUIRED							
DIRECTOR, DESIGN & ENGINEERING SERVICES							
				DATE			

**17.67. Project Funding Request**

**PROJECT FUNDING REQUEST**

To: Martha Wysor, CIP Analyst, Project Control Date: \_\_\_\_\_

From: \_\_\_\_\_

Project Name: \_\_\_\_\_

AKSAS Project Number: \_\_\_\_\_ Federal Project Number: \_\_\_\_\_

**APPROVALS OF REQUEST**

Latest Estimates for all project phases were reviewed and updated prior to submission of this funding request and all phases in need of a funding adjustment that can be addressed at this time are included in this request. Support groups please indicate concurrence with this request:

PreConstruction     
  Right of Way     
  Utilities     
  Construction

Post-Environmental Document Approval Funding Requests: I certify that the attached request is consistent with the approved environmental document: William F. Ballard, Regional Environmental Coordinator

**REQUEST TYPE AND DOLLAR AMOUNT (Dollar amount of CHANGE, including non-participating funds):**

Phase 2 Requests: \$ \_\_\_\_\_ Design PDA      \$ \_\_\_\_\_ ROW P.E. PDA      \$ \_\_\_\_\_ Utilities P.E. PDA  
 Phase 3 Requests: \$ \_\_\_\_\_ ROW PDA      \$ \_\_\_\_\_ Utility Relocation PDA  
 Phase 4 Requests: \$ \_\_\_\_\_ Construction PDA

**FHWA AUTHORITIES TO PROCEED (ATPs) REQUESTED:**

Increase within an existing ATP       ROW Appraisals & Acquisitions  
 PE-Reconnaissance Study       Utility Relocation  
 PE through Environmental Document Approval       Construction  
 PE through Final PS&E

**CONSULTANT INFORMATION (required for FHWA and FAA projects):**

<u>Consultant Names</u>	<u>Services to be provided</u>	<u>Estimated Contract \$ Amount</u>
_____	_____	_____
_____	_____	_____
_____	_____	_____

**PHASE CUTOFF DATES (required for FHWA and FAA projects):**


Phase 2: \_\_\_\_\_ Phase 3: \_\_\_\_\_ Phase 4: \_\_\_\_\_

**ADDITIONAL INFORMATION OR SPECIAL REQUESTS (non-participating funds, etc.):**

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Rev. 3/98

## 17.68. Project Material Certification Letter Example

	<p>THE STATE of <b>ALASKA</b> GOVERNOR SEAN PARNELL</p>	<p>Department of Transportation and Public Facilities</p>
		<p>NORTHERN REGION CONSTRUCTION</p>
		<p>2301 PEGER ROAD FAIRBANKS, ALASKA 99709-5316 Main: 907-451-5466 TDD: 907-451-2363 FAX: 907-451-5487</p>
<p><b>PROJECT MATERIAL CERTIFICATION</b></p>		
<p>Project No:</p>		
<p>Project Name:</p>		
<p>This is to certify that the manufacturer's certifications, and results of the tests on acceptance samples, indicate that the materials incorporated in the construction work, and the construction operations controlled by sampling and testing, were in conformity with the approved plans and specifications.</p>		
<p>It is further certified that the results of tests on acceptance samples compare favorably with the results of the independent assurance sampling and testing.</p>		
<p><i>Please mark the appropriate box below:</i></p>		
<p><input type="checkbox"/> There are no exceptions to the material requirements.</p> <p><input type="checkbox"/> Minor exceptions to the material requirements are listed in the Materials Testing Summary <b>or Materials Sampling Checklist.</b></p> <p><input type="checkbox"/> Exceptions to the material requirements are listed in the attached Memorandum of Exceptions.</p>		
<p>Date: _____</p>	<p>_____</p>	
	<p>Project Engineer</p>	
<p>Date: _____</p>	<p>Andrew Schultz, P.E. Quality Assurance Engineer</p>	
<p><i>"Keep Alaska Moving through service and infrastructure."</i></p>		



17.69. Project Materials Report (Form 25D-058)



STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

# PROJECT MATERIALS REPORT

Project No.: \_\_\_\_\_ Date: \_\_\_\_\_  
Project Name: \_\_\_\_\_  
Bid Item No.: \_\_\_\_\_

**THE FOLLOWING ITEM HAS BEEN DELIVERED TO THE PROJECT:**

Description: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Supplier: \_\_\_\_\_  
\_\_\_\_\_

Quantity: \_\_\_\_\_  
\_\_\_\_\_

**Check One:**

- Item described above is a standard shelf or local purchase item and it meets contract requirements
- Item described above is listed on the Materials, Sampling and Testing Frequency Table under Small Quantities of Miscellaneous Materials
- Other – include explanation for acceptance under remarks

Remarks: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**ALL MATERIALS HAVE BEEN INSPECTED AND INVENTORIED AT THE PROJECT AND  
FOUND TO BE ACCEPTABLE FOR INCORPORATION INTO THE WORK**

\_\_\_\_\_  
Project Engineer

\_\_\_\_\_  
Date

25D-058 Rev. 01/10

17.70. Proof of Construction for ROW (Form 25D-173)



STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION  
AND PUBLIC FACILITIES

PROOF OF CONSTRUCTION  
FOR RIGHT OF WAY

\_\_\_\_\_ states that he is the Project Engineer for the State of Alaska, Department of Transportation and Public Facilities; that Project No(s) \_\_\_\_\_ has/have been constructed under his supervision; that construction commenced on the \_\_\_\_\_, and was completed on the \_\_\_\_\_; that the constructed project(s), as foresaid, conform(s) to the R/W limits as shown on the Project Right-of-Way Plans or the plat(s) which received the approval of the (agency) \_\_\_\_\_ on the following date: BLM/ADL # \_\_\_\_\_, on \_\_\_\_\_.

\_\_\_\_\_  
Signature of Project Engineer

\_\_\_\_\_  
Date

(THIS SECTION TO BE COMPLETED FOR BLM GRANTS ONLY, AS NEEDED, AFTER RECEIVED IN RIGHT-OF-WAY.)

I, \_\_\_\_\_, certify that I am the \_\_\_\_\_ of the Alaska Department of Transportation and Public Facilities; that Project No(s) \_\_\_\_\_ was/were actually constructed as set forth in the accompanying statement of \_\_\_\_\_, the \_\_\_\_\_ Engineer, and project(s) was/were constructed in compliance with the conditions of the grant.

\_\_\_\_\_  
Construction Engineer  
State of Alaska  
Department of Transportation  
and Public Facilities

Attest: \_\_\_\_\_

25D-173 (1-03)

17.71. Proof of Use for Material Sources (25D-174)



STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION  
AND PUBLIC FACILITIES

**PROOF OF USE FOR MATERIAL SOURCES, MAINTENANCE &  
STOCKPILE SITES, ROADSIDE & LANDSCAPE DEVELOPMENT AREAS**

\_\_\_\_\_ states that he is the Project Engineer for the State of  
Alaska, Department of Transportation and Public Facilities; that \_\_\_\_\_  
has been utilized under his supervision; as \_\_\_\_\_ on Project No(s)  
\_\_\_\_\_; that the \_\_\_\_\_  
as aforesaid, conforms to the plat which received the approval of the (agency) \_\_\_\_\_  
\_\_\_\_\_ on the following date:  
BLM/ADL # \_\_\_\_\_, on \_\_\_\_\_.

\_\_\_\_\_  
Signature of Project Engineer

\_\_\_\_\_  
Date

(THIS SECTION TO BE COMPLETED FOR BLM GRANTS ONLY, AS NEEDED, AFTER  
RECEIVED IN RIGHT-OF-WAY.)

I, \_\_\_\_\_, certify that I am the \_\_\_\_\_ of the  
Alaska Department of Transportation and Public Facilities; that \_\_\_\_\_  
was actually utilized as set forth in the accompanying statement of \_\_\_\_\_,  
the \_\_\_\_\_ Engineer, and Project was constructed in compliance with the  
conditions of the grant.

\_\_\_\_\_  
Regional Director  
State of Alaska  
Department of Transportation  
and Public Facilities

Attest: \_\_\_\_\_

25D-174 (1-03)

## 17.72. Public Interest Finding (PIF)

**PUBLIC INTEREST FINDING**  
**Deadhorse Airport Parallel T/W**  
**D10732/AIP 3-02-0339-01**  
**30169842**  
**Supplemental Agreement #1**

Supplemental Agreement #1 provides for the construction of a general aviation apron, lighted T/W and access road; plus security fencing on the main parking apron. The fencing has been mandated by the FAA and was not included in the contract earlier because of some layout complications that couldn't be resolved during the initial design phase.

As the oilfield development continues to grow on the North Slope so does the demand on the Deadhorse Airport as it is the only public, paved and lighted, all weather facility serving the area. The airport development has almost always been behind in keeping up with that demand. The last major capital improvement was the lighting and paving work in 1978. During the interim time the air carrier traffic has increased from one carrier to four and possibly five major carriers that make up to 11 scheduled flights per day. Also on this parking apron we have three helicopter operations that have had over 25 helicopters operating at one time; two fixed base operators with numerous daily flights and weekly oil company charter flights from the lower 48.

Add to this now the ever increasing transient and based small private aircraft traffic and you have a major congestion problem. The Airport Manager has to park planes in the designated taxiway on the south side of the parking apron, which is against FAA safety regulations. All of the above is compounded when the weather is poor since all traffic to the other area airports is diverted to the Deadhorse Airport with its Instrument Landing System.

The FAA axiom that air carrier operations and general aviation activity don't mix is definitely borne out at Deadhorse. Small aircraft owners are very reluctant to park on the main parking apron because (1) there are not any tiedowns and more importantly (2) the ever increasing damage potential because of the increasing jet traffic. Some owners have refused to park on the apron and on their own, without permission, parked on private property. This has created problems with and for the airport leaseholders. Also in light of increased terrorist activity the FAA is becoming particularly sensitive to maintaining separation of air carrier and general aviation activity for security reasons. Clearly there is a need for a general aviation facility at Deadhorse Airport.

The Department has an opportunity to satisfy this demand under the present contract at a very substantial savings to the State.

The design staff has outlined the construction costs, (mob-demob, field office and lab etc.), contract engineering and review and advertising costs, that we would incur if we advertise and administer this work under a new contract. These costs would be in addition to the costs to do the actual work under this proposal. (See Dan Urbach's memo June 26, 1985.) The estimate is \$230,000, and this is felt to be on the conservative side. This represents a 33% increase over our present proposal cost. Even if we started the review and advertising process today, the contract could not be advertised and awarded in time for construction this season. (See Dan Urbach's memo of June 17, 1985.) This approach is moot anyway if we add the above additional costs to the Engineer's estimate – there wouldn't be sufficient funds available to do the work.

In summary the present parking apron is no longer adequate to accommodate the heavy air carrier traffic and the general aviation mix. We have an opportunity to get a much needed facility for a very reasonable cost that will be available for public use this year, which otherwise would not be available under normal contract procedures. It is clearly in the State's best interest to take advantage of this opportunity to improve the safety, security and convenience of the flying public.

# 17.73. Report of Occupational Injury or Illness (Form 02-921) with instructions

<b>Alaska Department of Labor</b> Alaska Workers' Compensation Board P.O. Box 25512 Juneau, AK 99802-5512			<b>STATE OF ALASKA</b> <b>REPORT OF OCCUPATIONAL</b> <b>INJURY OR ILLNESS</b>			AWCB Case Number			
<b>EMPLOYEE: Answer ALL questions 1-20. Follow instructions on Pages 3 and 5.</b>									
1. Last Name		First Name	Initial	2. Telephone Number	3. Date of Birth	4. Sex <input type="checkbox"/> M <input type="checkbox"/> F	5. Social Security Number		
6a. Mailing Address			7a. Residence Address (Do not use P.O. Box; this must be your residence address)						
6b. City		State	ZIP Code	7b. City		State	ZIP Code		
8. City, Town, Village where injury occurred			9. Date & Hour of Injury or Exposure to Disease Date / / Hour <input type="checkbox"/> a.m. <input type="checkbox"/> p.m.		10. On Employer's Premises? <input type="checkbox"/> Yes <input type="checkbox"/> No				
11. Full Name and Address of Attending Physician			12. Hospitalized? <input type="checkbox"/> Yes <input type="checkbox"/> No	13. Name and Address of Hospital					
City		State	ZIP Code	City		State	ZIP Code		
14. Type of Injury or Illness and Part of Body Injured <input type="checkbox"/> Left <input type="checkbox"/> Right			15. Describe How the Injury or Illness Happened (Be specific)						
16. Employee's Signature (if not available, explain)					17. Date Signed				
<b>EMPLOYER: Answer questions 18-49. Carefully follow instructions on Page 2.</b>									
18. Department		Code	Division/Location		Code	19. Region (if applicable)			
20. Mailing Address (street and number)				21. Name of Insurer: State of Alaska Self Insurance Program					
City		State	ZIP Code	Telephone	22. Full Name and Address of Adjusting Company				
23. Date Employer First Knew Injury was Work-Related		24. Time Employee Left Work Date / / Hour <input type="checkbox"/> a.m. <input type="checkbox"/> p.m.				Mailing Address (street and number)			
25. Will Injury Result in Lost Time Beyond Date of Accident? <input type="checkbox"/> Yes <input type="checkbox"/> No		26. Date Returned to Work Date / /		27. Death <input type="checkbox"/> Yes <input type="checkbox"/> No Date / /		City	State	ZIP Code	Telephone
28. Place Where Injury or Illness Took Place (if different from location listed in #20).				29. Employee's Occupation		30. Date Hired by Employer			
31. Earnings Calculated By: <input type="checkbox"/> Hr. <input type="checkbox"/> Day <input type="checkbox"/> Output <input type="checkbox"/> Wk. <input type="checkbox"/> Mo. <input type="checkbox"/> Year			32. Rate of Pay \$ per		33. Days Employee Works per Week <input type="checkbox"/> 3 or Less <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> 6 <input type="checkbox"/> 7		34. Scheduled Days Off	35. Workday Began <input type="checkbox"/> a.m. <input type="checkbox"/> p.m.	
36. Was Employee Paid for Day of Injury? <input type="checkbox"/> Yes <input type="checkbox"/> No			37. Federal EIN 92-6001185		AK U.I. Acct. No. 588997				
38. Give Details of How Accident Happened.									
39. Was Accident Caused by Failure of a Machine or Product? <input type="checkbox"/> Yes <input type="checkbox"/> No		40. Were Mechanical Guards or Other Safeguards Provided? <input type="checkbox"/> Yes <input type="checkbox"/> No		41. Name Machine, Substance, or Object Which Directly Injured Employee		42. If Mechanical, Specifically What Part?			
43. Name and Addresses of Witnesses				44. If the Accident Was Caused by Anyone Besides Employee, Give Name and Address					
45. Dependents (name and address in case of death)									
46. If you Doubt Validity of Claim, State Reason (complete Supervisor's Report if necessary, and describe in detail)									
47. Signature of Authorized Employer Representative				48. Title		49. Date Signed			
<b>WARNING TO EMPLOYEES AND EMPLOYERS:</b> Penalties for fraud or misleading statements. A person who knowingly makes a false or misleading statement that adversely affects another person, is guilty of deception as defined in AS 11.46.180, and may be punished as provided in AS 11.46.120-150.									
<b>Instructions: Complete the Original and make 4 copies.      Distribution: Original – Workers' Compensation Board</b> Copy – Risk Management    Copy – Adjuster    Copy – Employer    Copy – Employee									
Form 02-921 (Rev. 9/02)						09/19/02-921.doc			
Page 1									

## TO THE EMPLOYER

This form must be completed and mailed immediately and in no case later than **ten (10) days** after you have knowledge that your employee has been injured or claims to have been injured while working for you. Be certain to mail the Original Blue Copy to the Alaska Workers' Compensation Board within the 10-day requirement.

"Injury" means accidental injury or death arising out of and in the course of employment and an occupational disease, illness, or infection which arises naturally out of the employment or which naturally or unavoidably results from an accidental injury.

"Injury" does not include **mental injury** caused by stress unless it is established that (A) the work stress was extraordinary and unusual in comparison to pressures and tensions experienced by individuals in a comparable work environment, and (B) the work stress was the predominant cause of the mental injury. A mental injury is not considered to arise out of and in the course of employment if it results from a disciplinary action, work evaluation, job transfer, layoff, demotion, termination, or similar action taken in good faith by the employer.

Failure to file this report within the required time may subject you and/or your insurer to a penalty equal to 25 percent of the amount of compensation due plus interest to the injured worker.

If you believe the employee will be unable to work for more than three days because of injury, be certain to complete items 31, 32, 33, and 34, or contact the adjuster and provide information about employee's earnings.

Original..... Alaska Workers' Compensation Board  
P.O. Box 25512  
Juneau, AK 99802-5512

Copy..... Alaska Division of Risk Management  
P.O. Box 110218  
Juneau, AK 99811-0218

Copy..... The Adjusting Service listed in the State of  
Alaska Claims Manual

Copy..... For department's administrative personnel file.

Copy..... Employee

### OSHA REQUIREMENTS

Report industrial deaths and accidents to the Division of Labor Standards and Safety. Alaska Statute 18.60.058 requires employers to report to the Division of Labor Standards and Safety an employment accident which is fatal to one or more employees or which results in the overnight hospitalization of one or more employees. The report, which must be made immediately, but no later than 24 hours after receipt by the employer, of information that the accident has occurred, must relate the circumstances of the accident, the number of fatalities, and the extent of the injuries.

**ALL INFORMATION IN THE WORKERS' COMPENSATION BOARD FILES, EXCEPT MEDICAL AND REHABILITATION RECORDS, IS AVAILABLE FOR PUBLIC REVIEW AND COPYING.**

**STATE OF ALASKA  
 REPORT OF OCCUPATIONAL  
 INJURY OR ILLNESS**

AWCB Case Number

**EMPLOYEE: Answer ALL questions 1-20. Follow instructions on Pages 3 and 5.**

1. Last Name First Name Initial		2. Telephone Number	3. Date of Birth / /	4. Sex <input type="checkbox"/> M <input type="checkbox"/> F	5. Social Security Number
6a. Mailing Address			7a. Residence Address (Do not use P.O. Box; this must be your residence address)		
6b. City State ZIP Code		7b. City State ZIP Code			
8. City, Town, Village where injury occurred			9. Date & Hour of Injury or Exposure to Disease Date / / Hour <input type="checkbox"/> a.m. <input type="checkbox"/> p.m.		10. On Employer's Premises? <input type="checkbox"/> Yes <input type="checkbox"/> No
11. Full Name and Address of Attending Physician			12. Hospitalized? <input type="checkbox"/> Yes <input type="checkbox"/> No		13. Name and Address of Hospital
City State ZIP Code		City State ZIP Code			
14. Type of Injury or Illness and Part of Body Injured <input type="checkbox"/> Left <input type="checkbox"/> Right			15. Describe How the Injury or Illness Happened (Be specific)		
16. Employee's Signature (If not available, explain)					17. Date Signed / /

**EMPLOYER: Answer questions 18-49. Carefully follow instructions on Page 2.**

18. Department Code Division/Location Code		19. Region (if applicable)			
20. Mailing Address (street and number)			21. Name of Insurer: State of Alaska Self Insurance Program		
City State ZIP Code Telephone		22. Full Name and Address of Adjusting Company			
23. Date Employer First Knew Injury was Work-Related / /		24. Time Employee Left Work Date / / Hour <input type="checkbox"/> a.m. <input type="checkbox"/> p.m.		Mailing Address (street and number)	
25. Will Injury Result in Lost Time Beyond Date of Accident? <input type="checkbox"/> Yes <input type="checkbox"/> No		26. Date Returned to Work / /		27. Death <input type="checkbox"/> Yes <input type="checkbox"/> No Date / /	
				City State ZIP Code Telephone	

**EMPLOYEE: READ AND FOLLOW THE INSTRUCTIONS BELOW**

DECLARE YOUR MARITAL STATUS AND THE NUMBER OF YOUR ACTUAL DEPENDENTS ON THE INJURY DATE. "ACTUAL DEPENDENTS" MEANS THE EXEMPTIONS YOU WOULD BE ABLE TO CLAIM IF YOU WERE FILING YOUR INCOME TAX RETURN.

1. MARITAL STATUS:  SINGLE  MARRIED, SPOUSE'S FULL NAME \_\_\_\_\_

2. DEPENDENTS: a.  YOURSELF  65 OR OVER  BLIND  
 b.  SPOUSE  65 OR OVER  BLIND  
 c.  List first names and birthdates of your dependent children who live with you: \_\_\_\_\_  
 Enter number of boxes checked in (a) and (b)

d.	Other Dependents (1) Name	(2) Relationship	(3) Do you provide more than 1/2 of dependent's support?	Enter number of children listed
				<input type="checkbox"/>
				<input type="checkbox"/>

Always check the box labeled "Yourself." Check other boxes if they apply

e. Total Number of Dependents Claimed.....  
 Enter number of other dependents   
 Add numbers entered in boxes

Employee's Signature	Date
----------------------	------

**EMPLOYEE: IF YOU LOSE MORE THAN 3 DAYS FROM WORK AS A RESULT OF THIS INJURY,  
 READ the instructions on Page 4  
 Complete Pages 3 and 4 – send them to the Adjuster**



## TO THE EMPLOYEE

IF YOU BELIEVE THAT YOU WILL NOT BE ABLE TO WORK FOR MORE THAN THREE (3) DAYS BECAUSE OF YOUR INJURY, IMMEDIATELY FILL OUT THE FORM BELOW AND SEND IT TO THE ADJUSTING SERVICE COMPANY OR YOUR DEPARTMENT'S HUMAN RESOURCES MANAGER FOR FORWARDING TO THE STATE'S ADJUSTING SERVICE.

Check the BOXES which are true for you. Attach wage stubs or records about your earnings as indicated, including deferred income, employer-provided room and board, and employer contributions to a qualified pension or profit-sharing plan.

1.  When injured, I was a seasonal/temporary worker. ATTACH EARNING RECORDS FOR ALL WORK FOR THE CALENDAR YEAR IMMEDIATELY BEFORE THE INJURY.

IF YOU CHECKED BOX NUMBER ONE ABOVE, SKIP TO NUMBER FIVE (5) BELOW.

2.  I was employed less than 13 calendar weeks immediately before the injury. YOU DO NOT NEED TO ATTACH EARNING RECORDS.
3.  I was employed 13 calendar weeks or more immediately before the injury.
- a.  When injured, my wages were calculated by the:  
 Week  Month  Year

ATTACH EARNING RECORDS IF YOU WORKED FOR MORE THAN ONE EMPLOYER.

- b.  When injured, my wages were calculated by the day, hour, or output. IF YOU WERE EMPLOYED 13 WEEKS OR MORE, ATTACH EARNING RECORDS FOR YOUR MOST FAVORABLE 13 CONSECUTIVE CALENDAR WEEKS WITHIN THE 52 WEEKS IMMEDIATELY BEFORE YOUR INJURY.
4.  When injured, my wages or the basis for my pay had not been set. ATTACH INFORMATION ABOUT THE USUAL WAGE FOR SIMILAR SERVICES.
5.  When injured, I was employed by two or more employers.
6.  When injured, I was a minor, apprentice, or trainee in a formal training program.
7.  I was injured working as a volunteer ambulance attendant, volunteer police officer, or volunteer fire fighter.
8.  I was injured before September 4, 1995.

**ALL INFORMATION IN THE WORKERS' COMPENSATION BOARD FILES, EXCEPT MEDICAL AND REHABILITATION RECORDS, IS AVAILABLE FOR PUBLIC REVIEW AND COPYING.**

**17.74. Request for Overtime Authorization (Form 25A-042)**



**STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION  
AND  
PUBLIC FACILITIES**

**REQUEST FOR OVERTIME AUTHORIZATION**

LOCATION: \_\_\_\_\_ DIVISION: \_\_\_\_\_ SECTION: \_\_\_\_\_ DATE: \_\_\_\_\_

TO: \_\_\_\_\_ FROM: \_\_\_\_\_  
Division or District Head Supervisor

PROJECT NUMBER: \_\_\_\_\_  
(Construction or Location only)

Authority is requested for overtime authorization for a total maximum of \_\_\_\_\_ hours, beginning \_\_\_\_\_ and ending \_\_\_\_\_ not to exceed 31 days for the following employees:

NAME	CLASSIFICATION	ASSIGNMENT OR ACTIVITY

Reason for request: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Supervisor will be prepared to justify all overtime worked upon audit. Actual overtime worked by any of the above employees will be only that which is absolutely necessary to accomplish the task.

Signed \_\_\_\_\_  
Supervisor

NAME	TITLE	DATE	APPROVED	DISAPPROVED

(Approval Authority - Division Head)

25A-042 1/98

17.75. Request for Proposal (Form 25D-067)



STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION  
AND PUBLIC FACILITIES  
Select REGION

Request  
For Proposal

**NOTE: This form does not authorize commencement of work.**

Project No.: \_\_\_\_\_ RFP No.: \_\_\_\_\_

Project Name: \_\_\_\_\_

Contractor: \_\_\_\_\_  
Company Name

Address: \_\_\_\_\_  
Address

City/State \_\_\_\_\_  
City/State

Recommended By: \_\_\_\_\_ Date: \_\_\_\_\_

Title: \_\_\_\_\_

Description of Work (attach additional sheet(s) if necessary):

Change in Contract Price and Time (Contractor's breakdown required, attach additional sheet(s) if necessary):

Per AS 36.30.400, I hereby certify that to the best of my Knowledge and Belief, the data submitted is accurate, complete and current and is the actual costs to the contractor or additional time for performing the additional work or supplying the additional materials.

Signature: \_\_\_\_\_

Contractor's Representative

Authorization to Proceed required by \_\_\_\_\_ to avoid additional costs.

Date: \_\_\_\_\_

**17.76. Road Construction/Project Condition Report**

DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES  
NORTHERN REGION

**ROAD CONSTRUCTION/PROJECT CONDITION REPORT**

////////////////////////////////////

Road Name: \_\_\_\_\_

Beginning: \_\_\_\_\_MP Ending: \_\_\_\_\_MP

(Check if Applicable)  
CONDITIONS:

Gravel:

Loose packed _____	Dusty _____
Rocks _____	Muddy _____
No Shoulders _____	Soft Shoulders _____
Expect Pilot Car _____	Delays of Minutes _____
Priming with Tar _____	Laying Asphalt _____

Other: \_\_\_\_\_

Construction Equipment:

Heavy Equipment Activity is:

\_\_\_\_\_ Low \_\_\_\_\_ Moderate \_\_\_\_\_ High

\_\_\_\_\_  
Comments

\_\_\_\_\_  
Project Engineer Date Phone

////////////////////////////////////

Send this Report to:

Dalton/Denali Area Clerk  
MS 2550-12 or phone (907) 451-2206  
FAX# (907) 451-2212

17.77. Scale Diary (Form 25D-054)

**State of Alaska  
Alaska Department of Transportation & Public Facilities**

**Scale Diary (Form 25D-054)**

Date: \_\_\_\_\_ Item Number: \_\_\_\_\_ Source: \_\_\_\_\_

Scale Location: \_\_\_\_\_

Time scale balanced: \_\_\_\_\_

Scales opened: \_\_\_\_\_ Scales closed: \_\_\_\_\_

First ticket number: \_\_\_\_\_ Last ticket number: \_\_\_\_\_

Haul started: \_\_\_\_\_ Haul stopped: \_\_\_\_\_

Void ticket numbers: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Truck Number	Ticket Number	Time	Tare Weight

Remarks: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Scaleman: \_\_\_\_\_

Form 25D-054 (3/06)

17.78. Stock Request (Form 02-303)



**STATE OF ALASKA  
STOCK REQUEST**

NAME OF REQUESTING OFFICE					PHONE	
SHIP TO:					REQUESTING OFFICE ORDER NO.	
ADDRESS					DATE OF REQUEST	
CITY					DATE REQUIRED	
FINANCIAL CODING						
SY	CC	PGM	LC	ACCT	FY	Total Est. Cost
						Shipping Instructions
SIGNATURE OF REQUESTOR			DATE		APPROVED BY	

02-303(Rev. 1-98)

17.79. Subcontractor List (Form 25D-5)



STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

**SUBCONTRACTOR LIST**

**Project Name and Number**

The apparent low bidder shall complete this form and submit it so as to be received by the Contracting Officer prior to the close of business on the fifth working day after receipt of written notice from the Department.

Failure to submit this form with all required information by the due date will result in the bidder being declared nonresponsive and may result in the forfeiture of the Bid Security.

Scope of work must be clearly defined. If an item of work is to be performed by more than one firm, indicate the portion or percent of work to be done by each.

**Check as applicable:**      All Work on the above-referenced project will be accomplished without subcontracts greater than 1/2 of 1% of the contract amount.

<sup>or</sup> Subcontractor List is as follows:

LIST FIRST TIER SUBCONTRACTORS ONLY

FIRM NAME, ADDRESS, PHONE NO.	AK BUSINESS LICENSE NO., CONTRACTOR'S REGISTRATION NO.	SCOPE OF WORK TO BE PERFORMED

CONTINUE SUBCONTRACTOR INFORMATION ON REVERSE

For projects with federal-aid funding, I hereby certify Alaska Business Licenses and Contractor registrations will be valid for all subcontractors prior to award of the subcontract. For projects without federal-aid funding (State funding only), I hereby certify the listed Alaska Business Licenses and Contractor's Registration were valid at the time bids were opened for this project.

Signature of Authorized Company Representative	Title
Company Name	Company Address (Street or PO Box, City, State, Zip)
Date	( ) Phone Number

FIRM NAME, ADDRESS, PHONE NO.	AK BUSINESS LICENSE NO., CONTRACTOR'S REGISTRATION NO.	SCOPE OF WORK TO BE PERFORMED





**17.81. Supervisor's Accident Investigation Report (Form 02-932)**

STATE OF ALASKA

**SUPERVISOR'S ACCIDENT INVESTIGATION REPORT**

Name of Injured / Equipment / Property: \_\_\_\_\_

Job or Activity at Time of Accident \_\_\_\_\_ Date of Accident: \_\_\_\_\_

Exact Location: \_\_\_\_\_ Time: \_\_\_\_\_

<p><b>1. WHAT HAPPENED?</b> _____</p> <p>_____</p> <p>_____</p> <p>_____</p>	<p>Tell what the employee was doing, how the accident occurred, and what thing directly injured the employee.</p>															
<p><b>2. WHY DID IT HAPPEN?</b> _____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p>	<p>Get all the facts by studying the job and situation involved. Use the following factors to help you identify the condition responsible:</p> <p><b>OPERATING FACTORS TO BE CONSIDERED:</b></p> <table style="width: 100%; border: none;"> <tr> <td style="width: 33%;"><b>Proper Equipment</b></td> <td style="width: 33%;"><b>Proper Material</b></td> <td style="width: 33%;"><b>People</b></td> </tr> <tr> <td>Selection</td> <td>Selection</td> <td>Selection</td> </tr> <tr> <td>Arrangement</td> <td>Placement</td> <td>Placement</td> </tr> <tr> <td>Use</td> <td>Handling</td> <td>Training</td> </tr> <tr> <td>Maintenance</td> <td>Use</td> <td>Supervision</td> </tr> </table>	<b>Proper Equipment</b>	<b>Proper Material</b>	<b>People</b>	Selection	Selection	Selection	Arrangement	Placement	Placement	Use	Handling	Training	Maintenance	Use	Supervision
<b>Proper Equipment</b>	<b>Proper Material</b>	<b>People</b>														
Selection	Selection	Selection														
Arrangement	Placement	Placement														
Use	Handling	Training														
Maintenance	Use	Supervision														
<p><b>3. WHAT SHOULD BE DONE?</b> _____</p> <p>_____</p> <p>_____</p>	<p>What action(s) will prevent similar accidents in the future?</p>															
<p><b>4. WHAT HAVE YOU DONE THUS FAR?</b> _____</p> <p>_____</p> <p>_____</p>	<p>Take or recommend action, depending on your authority.</p>															
<p><b>5. HOW WILL THIS IMPROVE OPERATIONS?</b> _____</p> <p>_____</p> <p>_____</p>	<p>How will it help us meet our objective: ACCIDENT PREVENTION?</p>															
<p><b>6. WHAT IS YOUR ROUGH ESTIMATED COST OF THIS ACCIDENT?</b></p> <p>Cost of lost wages and medical expenses? ..... _____</p> <p>Damage to State property or equipment? ..... _____</p> <p>Damage to third parties, property and people? ..... _____</p> <p style="text-align: right;">TOTAL _____</p>																

Investigated By: \_\_\_\_\_ Date: \_\_\_\_\_

Unit / Division / Department: \_\_\_\_\_

**COMPLETE INSTRUCTIONS ARE ON THE BACK**

02-932 (10/93)

## SUPERVISOR'S INVESTIGATION REPORT

### INSTRUCTIONS

A. Investigate each accident immediately after it occurs.

B. Distribution: (To be completed within 72 hours.)

BLUE	—	Your Division Director	
PINK	—	Your Copy	
GREEN	—	Division of Administration Services	
YELLOW	—	Division of Risk Management*	(Division of Risk Management) Department of Administration P.O. Box 110218 Juneau, AK 99811-0218

\* on worker compensation injuries attach to yellow copy of form No. 02-921

#### 1. WHAT HAPPENED?

GET ALL THE FACTS by studying the job and conditions where the accident occurred.

TELL WHAT THE EMPLOYEE WAS DOING when injured. (BE SPECIFIC. If employee was using tools or equipment or handling material, name them and tell what employee was doing with them.)

TELL HOW THE ACCIDENT OCCURRED. (Describe fully the events which resulted in injury. Tell what happened and how it happened. Name any objects or substances involved and tell how they were involved. Give full details on all factors which led or contributed to the accident.)

TELL WHAT THING DIRECTLY INJURED THE EMPLOYEE. (Name object struck against or struck by. If strain or hernia, name the object lifted, pulled, etc. If injury resulted solely from bodily motion, state the stretching, twisting, etc. which caused the injury.)

#### 2. WHY DID IT HAPPEN?

Describe in detail the CONDITION RESPONSIBLE for the accident. It will always involve one or more of 12 OPERATION FACTORS listed. Be specific in identifying the equipment, material, and people involved and how they contributed to the accident.

#### 3. WHAT SHOULD BE DONE?

Determine what CORRECTIVE ACTION is needed to prevent a similar accident in the future. The OPERATION FACTORS used in No. 2 should help you determine what should be done.

#### 4. WHAT HAVE YOU DONE THUS FAR?

State what CORRECTIVE ACTION you have taken or recommended to your supervisor, depending on your authority.

#### 5. HOW WILL THIS IMPROVE OPERATIONS?

State how the CORRECTIVE ACTION you have taken or recommended will help to prevent future accidents.

#### 6. WHAT IS YOUR ROUGH ESTIMATED COST OF THIS ACCIDENT?

In most cases, actual accident costs are not available for some period of time. Please use your BEST JUDGEMENT IN MAKING A DETERMINATION of lost wages, medical expenses, damage to State property and/or equipment.

02-932 BACK (10/93)

**17.82. Supervisor's Safety Meeting Report (Form 25M-063**



STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

**SUPERVISOR'S SAFETY MEETING REPORT**

TOTAL EMPLOYEES \_\_\_\_\_ REGION \_\_\_\_\_  
EMPLOYEES PRESENT \_\_\_\_\_ DIVISION \_\_\_\_\_  
DATE \_\_\_\_\_ SECTION \_\_\_\_\_  
LOCATION \_\_\_\_\_

**SUBJECT DISCUSSED:**

\_\_\_\_\_

**SAFETY SUGGESTIONS AND RECOMMENDATIONS:**

\_\_\_\_\_

**SUGGESTIONS FOR FUTURE SAFETY MEETINGS:**

\_\_\_\_\_

All personnel in attendance shall sign back of original.

\_\_\_\_\_  
Safety Meeting Supervisor

\_\_\_\_\_  
Title

25M-063(4/98)

17.83. Supplemental Agreement (Form 25D-066)



STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION  
AND PUBLIC FACILITIES  
CENTRAL REGION

SUPPLEMENTAL AGREEMENT NO.: \_\_\_\_\_

Sheet \_\_\_\_\_ of \_\_\_\_\_

Project No.: \_\_\_\_\_

Contractor: \_\_\_\_\_

Project Name: \_\_\_\_\_

Address: \_\_\_\_\_

The above designated Contract is hereby modified in the manner described below. This agreement is supplemental to the above Contract, which is, by reference made a part hereof. Price adjustments resulting from inaccurate cost and pricing data are subject to the provisions of AS 36.30.400c. All terms, conditions, and provisions of the Contract, except as specifically modified herein, remain unchanged and in full force and effect.

Acceptance of this Supplemental Agreement constitutes agreement to the terms, conditions, and prices stated.

\_\_\_\_\_  
Contractor

\_\_\_\_\_  
Contractor Representative Title

Date: \_\_\_\_\_

Recommended: \_\_\_\_\_  
Title:

Issued: \_\_\_\_\_

Date: \_\_\_\_\_

WITNESS

Use Form 25D-065 for continuation, if required

25D-066 (1/03)

**17.84. Support Information/Backup Sheet (Form 25D-064)**

State of Alaska Department of Transportation and Public Facilities Support Information/Backup Sheet (Form 25D-064)							
							Sheet 1 of
Backup for: _____				Region Review			
Project Number: _____							
Project Name: _____				FHWA/ FAA (If required)			
Contract Amount: _____				FHWA/FAA Verbal Approval Date (If required) _____			
Comparison of Cost Due to Change							
Item No.	FA Code	Negotiated Yes or No	Item	Unit	Price	Quantity (+ or -)	Amount (+ or -)
Prepared By: _____ Project Engineer				<b>Net Change This Order</b>			
Prior Change Documents:				<b>Total Previous Changes</b>			
				<b>Accumulative Change</b>			
				<b>% of Accumulative Change</b>			
Description and Reason for Change							

Use Form 25D-065 for continuation, if required

25D-064 (3/05ge)

# 17.85. SWPPP Amendment Log (Form 25D-114)



STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES  
**SWPPP AMENDMENT LOG** PAGE \_\_\_\_

AKSAS Number: \_\_\_\_\_

Project Name: \_\_\_\_\_

All amendments must be approved by the Engineer per 64.1.3.03, therefore the Project Engineer's approval of each amendment must be documented. Detailed instructions for completing this form can be found on the Alaska Construction Forms website: [http://dot.alaska.gov/stwddes/dcsconstpop\\_constforms.shtml](http://dot.alaska.gov/stwddes/dcsconstpop_constforms.shtml)

Amendment Number	Description of the Amendment and Related Corrective Action Number (if applicable)	Page or Sheet Number	Date of Amendment	Amendment Authorized by (Sign Full Name)	PE Initials

Form 25D-114 (12/2015)

17.86. SWPPP Certification for Contractor (Form 25D-111)



STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES  
**SWPPP CERTIFICATION FOR CONTRACTOR**

Project Name: \_\_\_\_\_

Operator:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Name: \_\_\_\_\_

Duly Authorized Representative in accordance with Appendix A, Part 1.12 APDES  
General Permit for Discharges From Large and Small Construction Activities

Title: \_\_\_\_\_

Date: \_\_\_\_\_

Signature: \_\_\_\_\_



17.87. SWPPP Certification for DOT&PF (Form 25D-109)



STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

**SWPPP CERTIFICATION FOR DOT&PF**

Project Name: \_\_\_\_\_

Operator: Alaska Department of Transportation and Public Facilities,

[FILL IN YOUR REGION OR DIVISION]

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Name: \_\_\_\_\_

Duly Authorized Representative in accordance with Appendix A, Part 1.12 APDES  
General Permit for Discharges From Large and Small Construction Activities

Title: Project Engineer

Date: \_\_\_\_\_

Signature: \_\_\_\_\_

17.88. SWPPP Construction Site Inspection Report (Form 25D-100)



STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES  
SWPPP CONSTRUCTION SITE INSPECTION REPORT

Detailed instructions for completing this form can be found on the Alaska Construction Forms website:  
[http://www.dot.state.ak.us/stwdes/dcsconst/pop\\_constforms.shtml](http://www.dot.state.ak.us/stwdes/dcsconst/pop_constforms.shtml)

**1.0 General Information**

1.1 Project Name			
1.2 Project Number		1.3 Location	
1.4 NOI Tracking No.	Contractor's:		DOT&PF's:
1.5a Date of Inspection			1.5b Start/End Times:
1.6 Inspectors' Names	Contractor:		DOT&PF:
1.7 Inspectors' Titles	Contractor:		DOT&PF:
1.8 Inspectors' Contact Information	Contractor:		DOT&PF:
1.9a AK-CESCL Cert. No.	Contractor:		DOT&PF:
1.9b AK-CESCL Exp. Date	Contractor:		DOT&PF:
1.10 Describe construction activities			
1.11 Type of Inspection: <input type="checkbox"/> Regular <input type="checkbox"/> Post-storm Event <input type="checkbox"/> Reduced Inspection Frequency Period			

**2.0 Weather Information**

2.1 Describe the weather since the last inspection, or start of construction activities if first inspection.

Check all appropriate boxes.  
 Clear  Cloudy  Rain  Sleet  Fog  Snow  High Winds  Other:

2.2 Storm events. Complete storm event information if there were any storm events since the last inspection.

*Storm event:* a rainfall event that produces more than 0.5 inch of precipitation in 24 hours and that is separated from the previous storm event by at least 3 days of less than 0.1 inch of rain per day. CGP C16.

Estimated Start Date:					
Estimated Duration (#days):					
Approximate Amount of Precipitation (in):					

2.3 Weather at time of this inspection?  Clear  Cloudy  Rain  Sleet  Fog  Snow  High Winds  Other:  
 Temperature:

### 3.0 Overall Site Issues

*For complete instructions, please see instructions on Constructions Forms web page, by separate form*

- **Overall Site Issue** -- These are general site issues that must be assessed during inspections.
- **Implemented?** -- If a BMP should be installed at the time of the inspection and you marked "No" in the "BMP Installed" column, then you must check "Yes" in the "BMP Action Required?" column. If there is good reason to mark "no" in the "BMP Installed" column (such as the BMP is no longer needed and was removed) then you can mark "no" in the "BMP Action Required?" column and explain in the "Comments" column.
- **Corrective Action Required?** - When maintenance or some other corrective action is required, check "Yes" in this column.
- **Corrective Action Required, Complete by Date** - When a corrective action is required, before certifying the report, fill in the date when the corrective action can reasonably be expected to be completed. When a corrective action is NOT required, leave the "Complete by Date" blank.
- **If Corrective Action is required, describe Action and Location** -- Anytime you check "Yes" in the "Corrective Action Required?" column, you must fill in the "Describe Corrective Action and Location" column as well.
- **Corrective Action Log** - When a Corrective Action is required as noted in this report, you must also enter all the information for this action in the Corrective Action Log and document on the Log the actual date of completed correction.

	Overall Site Issue	Response	Corrective Action Required?	If Corrective Action is required, describe Action and Location	Comments
3.1	Have stabilization measures been initiated on slopes and disturbed areas not actively being worked?	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No Complete by Date:		
3.2	Are natural resource areas (e.g., streams, wetlands, mature trees, etc.) required by the SWPPP to be delineated in the field, identified with barriers or markings?	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No Complete by Date:		
3.3	Are perimeter controls and sediment barriers adequately installed (keyed into substrate) and maintained?	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No Complete by Date:		
3.4	Are storm drain inlets properly protected?	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No Complete by Date:		
3.5	Are the construction exits preventing sediment from being tracked into the street?	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No Complete by Date:		
3.6	Is trash/litter from work areas collected and disposed of properly?	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No Complete by Date:		

	Overall Site Issue	Response	Corrective Action Required?	If Corrective Action is required, describe Action and Location	Comments
3.7	Are washout facilities (e.g., paint, concrete) available, clearly marked, and maintained?	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No Complete by Date:		
3.8	Are vehicle and equipment fueling, cleaning, and maintenance areas free of spills, leaks, or any other potential pollutants?	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No Complete by Date:		
3.9	Are materials that are potential stormwater contaminants stored inside or under cover?	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No Complete by Date:		
3.10	Are non-stormwater discharges (e.g., wash water, dewatering) properly controlled?	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No Complete by Date:		
3.11	Has Spill Response kit been used since the last inspection?	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No Complete by Date:		
3.12	Are the NOI postings legible, updated and do they contain the correct information?	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No Complete by Date:		
3.13	Are erodible stockpiles properly covered and have a perimeter control?	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No Complete by Date:		
3.14	Are any additional BMPs needed?	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No Complete by Date:		
3.15	(Other)	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No Complete by Date:		

**4.0 Discharge Points**

	Overall Site Issue	Response	Corrective Action Required?	If Response is No, describe Location. If Corrective Action is required, describe Action and Location	Comments
4.1	At the time of inspection, are the discharge points and receiving waters free of pollutant discharges (sediment deposits, sediment plume or oil sheen)? (See Section 4.3 for list of discharge points)	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No Complete by Date:		
4.2	Since the last inspection, are the discharge points and receiving waters free of evidence that pollutants had left the project site (for example, sediment deposits, oily residue)? (See Section 4.3 for list of discharge points)	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No Complete by Date:		

**4.3 Location of Discharge Points**

List the project discharge point locations	Inspected? Circle
	Yes No
	Yes No
	Yes No
	Yes No
	Yes No
	Yes No
	Yes No
	Yes No
	Yes No
	Yes No
	Yes No
	Yes No
	Yes No
	Yes No
	Yes No
	Yes No

List the project discharge point locations	Inspected? Circle

5.0 Site-specific BMPs
<ul style="list-style-type: none"> <li><b>BMP Identifier</b> -- This column is a mandatory entry used to help correspond BMPs with the site map. Number the structural and non-structural BMPs identified in your SWPPP on your site map and list them below (add as many BMPs as necessary on the continuation sheets).</li> <li><b>BMP and Location</b> - Describe and give the location of the structural and non-structural BMPs identified in your SWPPP in the BMP column below (Include areas that are required to be inspected by the CGP, such as material storage areas that are exposed to precipitation.)</li> <li><b>BMP Installed?</b> – If a BMP should be installed at the time of the inspection and you marked “No” in the “BMP Installed” column, then you must check “Yes” in the “BMP Action Required?” column. If there is good reason to mark “no” in the “BMP Installed” column (such as the BMP is no longer needed and was removed) then you can mark “no” in the “BMP Action Required?” column and explain in the “Comments” column.</li> <li><b>BMP Action Required?</b> - If a BMP needs repair, modification, replacement, maintenance or a new BMP is needed or a SWPPP amendment is needed, then a BMP Action is required.</li> <li><b>BMP Action Required, Complete by Date</b> - Before certifying the report, fill in the date when the BMP Action can reasonably be expected to be completed. When a BMP Action is NOT required, leave the “Complete by Date” blank.</li> <li><b>If BMP Action is required, describe Action and Location</b> – Anytime you check “Yes” for “BMP Action Required,” then you must also fill in the “Describe BMP Action and Location” column.</li> <li><b>Corrective Action Log</b> - When a BMP Action is required as noted in this report, you must also enter all the information for this action in the Corrective Action Log, and document on the Log the actual date of completing correction.</li> </ul>

BMP Identifier	BMP & Location	BMP Installed?	BMP Action Required?	If BMP Action is required, describe Action and Location	Comments
		__Yes __No	__Yes __No Complete by Date:		
		__Yes __No	__Yes __No Complete by Date:		
		__Yes __No	__Yes __No Complete by Date:		
		__Yes __No	__Yes __No Complete by Date:		
		__Yes __No	__Yes __No Complete by Date:		

BMP Identifier	BMP & Location	BMP Installed?	BMP Action Required?	If BMP Action is required, describe Action and Location	Comments
		<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No Complete by Date:		
		<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No Complete by Date:		
		<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No Complete by Date:		
		<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No Complete by Date:		
		<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No Complete by Date:		
		<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No Complete by Date:		
		<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No Complete by Date:		
		<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No Complete by Date:		
		<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No Complete by Date:		
		<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No Complete by Date:		
		<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No Complete by Date:		
		<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No Complete by Date:		

**6.0 Inspection Certification**

**6.1 Areas of Inspection**

Did you inspect all areas of the project that are required to be inspected by the CGP including areas disturbed by construction activity, areas used for storage of materials that are exposed to precipitation, areas where control measures are installed, areas where sediment or other pollutants have accumulated or been deposited and may have the potential for or are entering a stormwater conveyance system, locations where vehicles enter or exit the site, areas where storm water typically flows, points of discharge from the site, and portions of the site where temporary or permanent stabilization has been initiated?	<input type="checkbox"/> Yes <input type="checkbox"/> No	If you did not inspect any required areas, list those locations here and explain why they weren't inspected.
--	---	--

**6.2 Project Compliance**

- *If there are incidences of non-compliance identified in this inspection report then you must summarize below the incidence(s) of non-compliance.*
- *If there is an Action Item described in the non-compliance box below that does not already have a "Complete by Date" assigned elsewhere in this report, then add a Complete by Date within the box.*

<b>Non-Compliance</b>
<b>Incidence(s) of Non-compliance:</b>  <b>Action Item(s) and Complete by Date(s):</b>

- *Check the box below if there are no incidences of non-compliance with the CGP:*

I certify that on the date of this inspection, this project was found to be in compliance with the terms of the applicable Construction General Permit.

**CERTIFICATION STATEMENT**

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

**Contractor's Duly Authorized Representative**

**DOT&PF's Duly Authorized Representative**

Print name: \_\_\_\_\_

Print Name: \_\_\_\_\_

Title: Superintendent

Title: Project Engineer

Signature \_\_\_\_\_

Signature \_\_\_\_\_

Date \_\_\_\_\_

Date \_\_\_\_\_







**17.91. SWPPP Delayed Action Item Report (Form 25D-113)**



STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

**SWPPP DELAYED ACTION ITEM REPORT (DAIR)**

Use when impracticability prevented Contractor from meeting initial "Complete by Date" for a BMP Action or Corrective Action. This form must be completed by a DOT&PF Project Engineer and attached to the inspection report. Detailed instructions for completing this form can be found on the Alaska Construction Forms website: [http://www.dot.state.ak.us/stwddes/dcsconst/pop\\_constforms.shtml](http://www.dot.state.ak.us/stwddes/dcsconst/pop_constforms.shtml)

**PART 1**

Project name \_\_\_\_\_

Project Number: \_\_\_\_\_

DOT&PF NOI Tracking # \_\_\_\_\_

Date completing this form \_\_\_\_\_

DOT&PF Project Engineer completing this form \_\_\_\_\_

BMP Action or Corrective Action description and location  
\_\_\_\_\_

Date of inspection report that identified a BMP Action or Corrective Action was needed \_\_\_\_\_

"Complete by Date" on that inspection report \_\_\_\_\_

Provide a detailed explanation as to why the BMP Action or Corrective Action was not completed as scheduled (attach additional page, if necessary)  
\_\_\_\_\_

New "Complete by Date" \_\_\_\_\_

**PART 2**


Date the BMP Action or Corrective Action was actually completed \_\_\_\_\_

If the BMP Action or Corrective Action is not completed by the new date written above, then complete another Delayed Action Item Report.

DOT&PF Project Engineer recording the action completion \_\_\_\_\_ Date \_\_\_\_\_

Form 25D-113 (12/2015)

17.92. SWPPP Delegation of Signature Authority for CGP Documents - Contractor (Form 25D-108)

	STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
<b>SWPPP DELEGATION OF SIGNATURE AUTHORITY FOR CGP DOCUMENTS -- CONTRACTOR</b>	
Project Name: _____	
<p>I, <i>(Contractor's responsible corporate officer)</i> hereby designate the project superintendant assigned to <i>(Project Name)</i> to be <i>(Contractor's company name)</i>'s duly authorized representative for the purpose of overseeing compliance with the APDES Construction General Permit, at the <i>(Project Name)</i> construction site. By signing this authorization, I confirm that I meet the requirements to make such a designation as set forth in Appendix A, Subsection 1.12.2 of ADEC's Construction General Permit (CGP), and that the designee above meets the definition of a "duly authorized representative" as set forth in Appendix A, Subsection 1.12.3.</p>	
<p>I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.</p>	
Name: _____	
Title: _____	
Company: _____	
Signature _____	
Date _____	

17.93. SWPPP Delegation of Signature Authority for CGP Documents – DOT&PF (Form 25D-107)



STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

**SWPPP DELEGATION OF SIGNATURE AUTHORITY  
FOR CGP DOCUMENTS – DOT&PF**

Project Name:

I, (REGIONAL DIRECTOR'S NAME) hereby designate the Project Engineer assigned to (Project Name) to be the DOT&PF duly authorized representative for the purpose of overseeing compliance with the APDES Construction General Permit, at the (Project Name) construction site. By signing this authorization, I confirm that I meet the requirements to make such a designation as set forth in Appendix A, Subsection 1.12.2 of ADEC's Construction General Permit (CGP), and that the designee above meets the definition of a "duly authorized representative" as set forth in Appendix A, Subsection 1.12.3.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.


Name: \_\_\_\_\_

Title: Regional Director

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

17.94. SWPPP Grading & Stabilization Activities Log (Form 25D-110)



STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

**SWPPP GRADING & STABILIZATION ACTIVITIES LOG** PAGE \_\_\_\_

Project Number: \_\_\_\_\_ Project Name: \_\_\_\_\_

Project Area (if applicable): \_\_\_\_\_

Detailed instructions for completing this form can be found on the Alaska Construction Forms website: [http://dot.alaska.gov/stwddes/dcsconst/pop\\_constforms.shtml](http://dot.alaska.gov/stwddes/dcsconst/pop_constforms.shtml)

Date Grading Activity Initiated/ Initials	Description of Grading Activity and Location	Date Grading Activity Ceased (Temporary or Permanent) and Initials	Date Stabilization Measures Initiated (Temporary or Permanent) and Initials	Date Stabilization Measure Complete	Description of Stabilization Measure
		T <input type="checkbox"/> P <input type="checkbox"/>	T <input type="checkbox"/> P <input type="checkbox"/>	T <input type="checkbox"/> P <input type="checkbox"/>	
		T <input type="checkbox"/> P <input type="checkbox"/>	T <input type="checkbox"/> P <input type="checkbox"/>	T <input type="checkbox"/> P <input type="checkbox"/>	
		T <input type="checkbox"/> P <input type="checkbox"/>	T <input type="checkbox"/> P <input type="checkbox"/>	T <input type="checkbox"/> P <input type="checkbox"/>	
		T <input type="checkbox"/> P <input type="checkbox"/>	T <input type="checkbox"/> P <input type="checkbox"/>	T <input type="checkbox"/> P <input type="checkbox"/>	
		T <input type="checkbox"/> P <input type="checkbox"/>	T <input type="checkbox"/> P <input type="checkbox"/>	T <input type="checkbox"/> P <input type="checkbox"/>	
		T <input type="checkbox"/> P <input type="checkbox"/>	T <input type="checkbox"/> P <input type="checkbox"/>	T <input type="checkbox"/> P <input type="checkbox"/>	
		T <input type="checkbox"/> P <input type="checkbox"/>	T <input type="checkbox"/> P <input type="checkbox"/>	T <input type="checkbox"/> P <input type="checkbox"/>	
		T <input type="checkbox"/> P <input type="checkbox"/>	T <input type="checkbox"/> P <input type="checkbox"/>	T <input type="checkbox"/> P <input type="checkbox"/>	
		T <input type="checkbox"/> P <input type="checkbox"/>	T <input type="checkbox"/> P <input type="checkbox"/>	T <input type="checkbox"/> P <input type="checkbox"/>	
		T <input type="checkbox"/> P <input type="checkbox"/>	T <input type="checkbox"/> P <input type="checkbox"/>	T <input type="checkbox"/> P <input type="checkbox"/>	

Form 25D-110 (12/2015)

**17.95. SWPPP Pre-Construction Site Visit (Form 25D-106)**



STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES  
**SWPPP PRE-CONSTRUCTION SITE VISIT**

Project Name:	
Project Number:	
Date of Site Visit:	

**1. PERSONS CONDUCTING THE VISIT**

Name:	Name:
Title:	Title:
Company:	Company:
Name:	Name:
Title:	Title:
Company:	Company:
Name:	Name:
Title:	Title:
Company:	Company:

**2. SWPPP PREPARER STATEMENTS AND SIGNATURE**

	Yes	No
1. Did you identify or verify opportunities to phase construction activities at the project?	<input type="checkbox"/>	<input type="checkbox"/>
2. Did you identify or verify appropriate BMPs and their sequencing for the project?	<input type="checkbox"/>	<input type="checkbox"/>
3. Did you identify or verify which sediment controls must be installed at the project prior to commencing construction activities (as defined by the CGP)?	<input type="checkbox"/>	<input type="checkbox"/>

If you answered NO to any of the questions above, explain:

Printed Name: \_\_\_\_\_

Title: \_\_\_\_\_

Company: \_\_\_\_\_

Signature: \_\_\_\_\_

Date: \_\_\_\_\_





**17.97. SWPPP Subcontractor Certification (Form 25D-105)**



STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

**SWPPP SUBCONTRACTOR CERTIFICATION**

Project Name:	
Project Number:	
Project Location:	
Operator(s):	

As a subcontractor, you are required to comply with the Construction General Permit (CGP) and the conditions of the Stormwater Pollution Prevention Plan (SWPPP), for any work that you perform on-site. Any person or group who violates any condition of the SWPPP may be subject to substantial penalties or loss of contract. You are encouraged to advise each of your employees working on this project of the requirements of the SWPPP. A copy of the SWPPP is available for your review at the site or other location easily accessible during normal business hours CGP 5.10.3.1.

Each subcontractor engaged in activities at the construction site that could impact stormwater must be identified and sign the following certification statement:

**I certify under the penalty of law that I have read and understand the terms and conditions of the SWPPP for the above designated project and agree to follow the BMPs and practices described in the SWPPP.**

This certification is hereby signed in reference to the above named project:

Company: \_\_\_\_\_  
 Address: \_\_\_\_\_ Telephone Number: \_\_\_\_\_  
 \_\_\_\_\_

Type of Construction Service Provided:

Printed Name: \_\_\_\_\_  
 Title: \_\_\_\_\_  
 Signature: \_\_\_\_\_  
 Date: \_\_\_\_\_

**17.98. SWPPP Training Log (Form 25D-125)**



STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

**SWPPP TRAINING LOG**

Project name: \_\_\_\_\_

Project Number: \_\_\_\_\_

Project Location: \_\_\_\_\_

Instructor's Name(s): \_\_\_\_\_

Instructor's Titles(s): \_\_\_\_\_

Course Location: \_\_\_\_\_

Course Date: \_\_\_\_\_

Course Length (hours): \_\_\_\_\_

Storm Water Training Topic: (check as appropriate)

- |  |   |
|--|---|
| <input type="checkbox"/> Erosion Control BMPs  | <input type="checkbox"/> Emergency Procedures   |
| <input type="checkbox"/> Sediment Control BMPs | <input type="checkbox"/> Good Housekeeping BMPs |
| <input type="checkbox"/> Non-Storm Water BMPs  | <input type="checkbox"/> Treatment Chemicals    |

Specific Training Objective: \_\_\_\_\_

Attendee Roster: (attach additional pages as necessary)

No.	Name of Attendee	Company	Attendee Initials
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			

Form 25D-125 (12/2015)

**17.99. SWPPP Turbidity Monitoring Form 25D-140**



STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES  
**SWPPP TURBIDITY MONITORING FIELD DATA**  
**For Discharges to Impaired Waterbodies**

*Use this form only when required to conduct monitoring under the 2016 CGP Part 3.2.*

Project Number: \_\_\_\_\_ Project Name: \_\_\_\_\_

**Discharge Point/Location**

**Representative Discharge Point:**  NO  YES

**Sample Information**

Name of Person Conducting Sampling:

Title of Person Conducting Sampling:

Sampling Method

Grab Samples:  Manual  Automated Sampler

No Samples – In-Water Probe/Sonde

**Analysis Information**

Name of Person Conducting Analysis:

Title of Person Conducting Analysis:

Analytical Method


Turbidity Meter Manufacture/Model Number

Method Detection Limit Last Calibration Date

Date/Time of Sampling	Sample Identification	No Sample Due To	Date/Time of Analysis	Turbidity Analysis Results (in NTU)
		<input type="checkbox"/> No discharge <input type="checkbox"/> Unsafe conditions		
		<input type="checkbox"/> No discharge <input type="checkbox"/> Unsafe conditions		
		<input type="checkbox"/> No discharge <input type="checkbox"/> Unsafe conditions		
		<input type="checkbox"/> No discharge <input type="checkbox"/> Unsafe conditions		
		<input type="checkbox"/> No discharge <input type="checkbox"/> Unsafe conditions		
		<input type="checkbox"/> No discharge <input type="checkbox"/> Unsafe conditions		
<b>Notes:</b>			<b>Notes:</b>	

Review and Recordkeeping: Results entered into Turbidity Monitoring Annual Report Data Log on \_\_\_\_\_ (date) by \_\_\_\_\_ (initial)

**17.100. SWPPP Turbidity Monitoring Annual Report (Form 25D-141)**

 <p style="text-align: center;"> <b>STATE OF ALASKA</b>  <b>DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES</b>  <b>SWPPP TURBIDITY MONITORING ANNUAL REPORT DATA LOG</b>  <b>For Discharges to Impaired Waterbodies</b>  <i>Use this form only when required to conduct monitoring under the 2016 CGP Part 3.2.</i> </p>		
<b>Project Number:</b>		<b>Project Name:</b>
<b>Part 1 – TURBIDITY DATA</b>		
<b>Date of Sampling</b>		
<b>Discharge Point/ Location</b> Check Box if Representative Discharge Point and List Substantially Identical Discharge Points/Locations in Part 2	Sample Identification	Turbidity Analysis Results (in NTU)
<input type="checkbox"/>		<input type="checkbox"/> No discharge at time of sample
<input type="checkbox"/>		<input type="checkbox"/> No discharge at time of sample
<input type="checkbox"/>		<input type="checkbox"/> No discharge at time of sample
<input type="checkbox"/>		<input type="checkbox"/> No discharge at time of sample
<input type="checkbox"/>		<input type="checkbox"/> No discharge at time of sample
<input type="checkbox"/>		<input type="checkbox"/> No discharge at time of sample
<b>Daily Average of All Samples</b>		

Form 25D-141 (12/2015)



STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES  
**SWPPP TURBIDITY MONITORING ANNUAL REPORT DATA LOG**  
**For Discharges to Impaired Waterbodies**  
*Use this form only when required to conduct monitoring under the 2016 CGP Part 3.2.*


Project Number:

Project Name:

**Part 2 – REPRESENTATIVE DISCHARGE POINT INFORMATION**

Representative Discharge Point/ Location	Substantially Identical Discharge Points/Locations

17.101. SWPPP Visual Monitoring (Form 25D-41)

 <p style="text-align: center;">STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES <b>SWPPP VISUAL MONITORING DATA</b> <b>For Discharges to High Quality Waters or Impaired Waterbodies</b> <i>Use this form only when required under the 2011 CGP Part 2.1.5 or Part 3.2.</i></p>		<p><b>Project Name:</b></p>	
<p><b>Name of Person Conducting Monitoring:</b></p>		<p><b>AKSAS Number:</b></p>	
<p><b>Date</b></p>		<p><b>Title of Person Conducting Monitoring:</b></p>	
<p><b>Discharge Point/Location</b></p>			
<p><b>Observations</b></p>			
<p><b>Discharges</b></p> <p><input type="checkbox"/> No discharge at this time</p> <p><input type="checkbox"/> Clear discharge</p> <p><input type="checkbox"/> Colored Discharge Color of Discharge Water:</p>	<p><b>Pollutant indicators present:</b> <input type="checkbox"/> NO <input type="checkbox"/> YES (if YES, check all that apply and describe)</p> <p><input type="checkbox"/> Odor:</p> <p><input type="checkbox"/> Floating/settled/suspended solids:</p> <p><input type="checkbox"/> Foam:</p> <p><input type="checkbox"/> Oil Sheen:</p> <p><input type="checkbox"/> Other:</p>	<p><b>Conditions Require Corrective Action:</b></p> <p><input type="checkbox"/> NO <input type="checkbox"/> YES</p> <p>If YES, describe the conditions that require corrective action and what corrective action will be taken.</p>	
<p><b>Discharge Point/Location</b></p>			
<p><b>Observations</b></p>			
<p><b>Discharges</b></p> <p><input type="checkbox"/> No discharge at this time</p> <p><input type="checkbox"/> Clear discharge</p> <p><input type="checkbox"/> Colored Discharge Color of Discharge Water:</p>	<p><b>Pollutant indicators present:</b> <input type="checkbox"/> NO <input type="checkbox"/> YES (if YES, check all that apply and describe)</p> <p><input type="checkbox"/> Odor:</p> <p><input type="checkbox"/> Floating/settled/suspended solids:</p> <p><input type="checkbox"/> Foam:</p> <p><input type="checkbox"/> Oil Sheen:</p> <p><input type="checkbox"/> Other:</p>	<p><b>Conditions Require Corrective Action:</b></p> <p><input type="checkbox"/> NO <input type="checkbox"/> YES</p> <p>If YES, describe the conditions that require corrective action and what corrective action will be taken.</p>	

Form 25D-129 (3/12)

**17.102. SWPPP CGP Noncompliance Notification (Form 25D-143)**



**Alaska Department of Transportation and Public Facilities  
Construction General Permit  
Noncompliance Notification**

DEC Toll Free: 1(877) 569-4114 Fax: (907) 269-4604

**GENERAL INFORMATION**

DOT&PF Region:	Project Name:	Project Location:
DOT&PF CGP Tracking Number:	Contractor:	Contractor CGP Tracking Number:
Person Reporting:	Phone Numbers of Person Reporting:	Reported How? (e.g. by phone):
Date/Time Event was Noticed:	Date/Time Reported to DEC:	Name of DEC Staff Contacted:

**VERBAL NOTIFICATION MUST BE MADE TO DEC WITHIN 24 HOURS OF DISCOVERY OF NONCOMPLIANCE**

**INCIDENT DETAILS (attach additional sheets, lab reports, and photos as necessary)**

**Period of Noncompliance**

Start Date/Time (exact):	End Date/Time (exact):
--------------------------	------------------------

If noncompliance has not been corrected, provide a statement regarding the anticipated time the noncompliance is expected to continue:

Description of the noncompliance and its cause (be specific):

Actions taken to reduce, eliminate, and prevent reoccurrence of noncompliance:

**Pollutant:**

**Corrective Actions:**

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

**Name:** \_\_\_\_\_ **Title:** \_\_\_\_\_ **Signature:** \_\_\_\_\_ **Date:** \_\_\_\_\_

**FORM MUST BE SENT TO DEC WITHIN FIVE DAYS OF BECOMING AWARE OF THE EVENT.**

17.103. Traffic Control Daily Review (Form 25D-104)

State of Alaska Department of Transportation and Public Facilities							
Traffic Control Daily Review (Form 25D-104)							
Project Name: <span style="background-color: #cccccc; display: inline-block; width: 50px; height: 15px;"></span>							
Project Number: <span style="background-color: #cccccc; display: inline-block; width: 50px; height: 15px;"></span>				Date: <span style="background-color: #cccccc; display: inline-block; width: 50px; height: 15px;"></span>			
Summary of TCPs in effect today							
TCP Number	Beginning & Ending Station	Start Time & Date		End Time & Date			
Traffic Control Changes							
TCP No.	Time	Description of Change					
Traffic Control Devices Inspection							
Item	Condition of TCD	Day Time: <span style="background-color: #cccccc; display: inline-block; width: 40px; height: 15px;"></span>			Night Time: <span style="background-color: #cccccc; display: inline-block; width: 40px; height: 15px;"></span>		
		Pass	Corrective Action	NA	Pass	Corrective Action	NA
All Devices	Conforms to approved TCPs	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Arrow and Changeable Message Boards	Properly aligned, maintained, approved messages	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Barriers/Attenuators	Properly installed and maintained	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Channelizing Devices	Clean, aligned, properly spaced	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Devices	Retro-reflectivity, legibility	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Pavement Markings	Correct placement	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Signs	Properly installed and legible, in use. If not in use, covered or removed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<p><b>*Note: If corrective action taken, explain on a Continuation Sheet Form 25D-065 (or on the back of this form) the reason for the corrective action</b></p> <p>I am aware that to knowingly make or allow false entries or alterations on public record, or knowingly destroy, mutilate, suppress, conceal, remove or otherwise impair the verity, legibility, or availability of a public record constitutes tampering with public records punishable under AS 11.56.815-820 and/or 23 CFR 635. Other disciplinary action may include Worksite Traffic Supervisor decertification.</p> <p>Inspected and certified correct by: _____ Date: <span style="background-color: #cccccc; display: inline-block; width: 40px; height: 15px;"></span></p> <p style="text-align: center;">Contractor's Worksite Traffic Supervisor</p>							

Form 25D-104 (12/05ge)



**17.104. Traffic Control Signs and Devices Daily Report (Form 25D-103)**

State of Alaska															
Department of Transportation and Public Facilities															
Traffic Control Signs and Devices Daily Report (Form 25D-103)															
Project Name: <span style="background-color: #cccccc; display: inline-block; width: 50px; height: 1em;"></span>															
Project Number: <span style="background-color: #cccccc; display: inline-block; width: 50px; height: 1em;"></span>		Date: <span style="background-color: #cccccc; display: inline-block; width: 50px; height: 1em;"></span>													
Location <small>(Beginning and ending station, left or right if applicable)</small>															
TCP Number															
Item	Pay Unit										Total				
Construction Signs	Day														
Type I Barricade	Day														
Type II Barricade	Day														
Traffic Cone	Day														
Tubular Marker	Day														
Plastic Safety Fence	LF														
Drum	Day														
Seq. Arrow Panel	Day														
Special Const. Signs	SF														
Port. Conc. Barrier	Each														
Temp. Crash Cush.	Each														
Int. Pave. Marking	Station														
Flagging	Hour														
Pilot Car	Hour														
Street Sweeping	Hour														
Watering	M-Gal.														
Lane Closure	Hour														
Detour	Day														
Road Closure	Day														
One Lane Road	Hour														
PCM Board Sign	Day														
Sidewalk Surfacing	SY														
Temp. Guardrail	LF														
Power Brooming	Hour														
										<b>Total</b>					
Oral or Written Directives: <span style="background-color: #cccccc; display: inline-block; width: 100%; height: 2em;"></span>															
Contractor's Representative _____						Date <span style="background-color: #cccccc; display: inline-block; width: 30px; height: 1em;"></span>		Project Engineer's Representative _____						Date <span style="background-color: #cccccc; display: inline-block; width: 30px; height: 1em;"></span>	

**Form 25D-103 (1/04 ge)**

**17.105. Traffic Enforcement Presence Log**



STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

**Traffic Law Enforcement Presence**

PAGE

Project Name:

Date	Number of Law Enforcement	Approximate Hours on Project Site	Initials Of Observer
<input type="text"/>	<input type="text"/>	From: <input type="text"/> To: <input type="text"/> or Total Hours: <input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	From: <input type="text"/> To: <input type="text"/> or Total Hours: <input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	From: <input type="text"/> To: <input type="text"/> or Total Hours: <input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	From: <input type="text"/> To: <input type="text"/> or Total Hours: <input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	From: <input type="text"/> To: <input type="text"/> or Total Hours: <input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	From: <input type="text"/> To: <input type="text"/> or Total Hours: <input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	From: <input type="text"/> To: <input type="text"/> or Total Hours: <input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	From: <input type="text"/> To: <input type="text"/> or Total Hours: <input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	From: <input type="text"/> To: <input type="text"/> or Total Hours: <input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	From: <input type="text"/> To: <input type="text"/> or Total Hours: <input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	From: <input type="text"/> To: <input type="text"/> or Total Hours: <input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	From: <input type="text"/> To: <input type="text"/> or Total Hours: <input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	From: <input type="text"/> To: <input type="text"/> or Total Hours: <input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	From: <input type="text"/> To: <input type="text"/> or Total Hours: <input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	From: <input type="text"/> To: <input type="text"/> or Total Hours: <input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	From: <input type="text"/> To: <input type="text"/> or Total Hours: <input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	From: <input type="text"/> To: <input type="text"/> or Total Hours: <input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	From: <input type="text"/> To: <input type="text"/> or Total Hours: <input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	From: <input type="text"/> To: <input type="text"/> or Total Hours: <input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	From: <input type="text"/> To: <input type="text"/> or Total Hours: <input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	From: <input type="text"/> To: <input type="text"/> or Total Hours: <input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	From: <input type="text"/> To: <input type="text"/> or Total Hours: <input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	From: <input type="text"/> To: <input type="text"/> or Total Hours: <input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	From: <input type="text"/> To: <input type="text"/> or Total Hours: <input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	From: <input type="text"/> To: <input type="text"/> or Total Hours: <input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	From: <input type="text"/> To: <input type="text"/> or Total Hours: <input type="text"/>	<input type="text"/>

Form 25D-128 (April 2012)

17.106. Traffic Item 643 (15) Flagging (Form 25D-037)



Page \_\_\_\_\_ of \_\_\_\_\_

STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

ITEM 643(15) FLAGGING

Project Name: \_\_\_\_\_

Project Number: \_\_\_\_\_ Date: \_\_\_\_\_

Flagging Required: \_\_\_\_\_

Name	Start	Time		Hours	Comments
		*	End		

\*Indicate break

Today's Total \_\_\_\_\_

Previous Total \_\_\_\_\_

Total to Date \_\_\_\_\_

\_\_\_\_\_  
Contractor's Representative

\_\_\_\_\_  
Inspector

\_\_\_\_\_  
Calculated by/Date

\_\_\_\_\_  
Checked by/Date

Form 25D-037(4/98)

**17.107. Waiver Request for Alternate Procurement Methods (Form 25D-026)**

**State of Alaska  
Department of Transportation & Public Facilities  
WAIVER REQUEST  
FOR ALTERNATE PROCUREMENT METHODS**

Send waiver requests over \$100,000 to: DOT&PF Chief Contracts Officer; 3132 Channel Drive (Mail Stop 2500); Juneau, Alaska 99801-7898  
Fax to: 1 (907) 586-8365; For Information: 1 (907) 465-6990

Requesting Department/Division:		Date:	Bid Waiver Number (FOR HQ USE ONLY)
Project Number(s) AKSAS/Federal:	Estimated Price:	Signature of Requesting Procurement Officer:	
Project Name:		Person to Contact (Project Manager & Telephone Number):	
<p><b>Part 1 - Type of Procurement Method:</b></p> <p> <input type="checkbox"/> Competitive Sealed Bid                      <input type="checkbox"/> Competitive Sealed Proposal                      <input type="checkbox"/> * Limited Competition  <input type="checkbox"/> * Emergency    <input type="checkbox"/> * Single Source    <input type="checkbox"/> Small Procurement         </p> <p>* Regardless of the contract amount, any purchase using Emergency, Single Source or Limited Competition procurement must be assigned a Bid Waiver Number and PART 6 of this form must be completed for each resulting contract.</p>			
<p><b>Part 2 - Specific description of procurement requirements to be waived:</b> For example time of advertisement, public notice, selection process, record keeping, etc.</p>			
<p><b>Part 3 - Project Description:</b> Provide the following information: 1) The contract requirements with attached schematics, planning documents, or narratives as appropriate. 2) A cost estimate that is linked to the contract requirements. Identify funding source: (General Fund, Bond, Federal, etc.) and if Federally funded attach copy of Federal approval. 3) A time line depicting the project schedule from inception to completion. 4) List all agency officials with oversight or supervisory responsibility for the project. Attach separate page(s) if necessary.</p>			
<p><b>Part 4 - Justification:</b> Provide the following information: 1) Need for construction or services. 2) Reason(s) for agency's inability to conform with standard procurement methods. 3) Statutory or Regulatory authorization (if other than budgetary process) for construction or services. 4) Impact on project if waiver is not approved -- explain in detail. 5) Any other documentation/ justification the agency feels would be helpful in evaluating the request. Attach separate page(s) if necessary.</p>			

**PART 5 - Department of Transportation and Public Facilities' comments and recommendations:**

Recommended:     Approval         Disapproval         Other         Return for other/further action as noted above.

Reviewed by:	Signature:	Date:
--------------	------------	-------

<input type="checkbox"/> <b>Approved</b>	by: _____ Commissioner of Department of Transportation and Public Facilities	Date:
<input type="checkbox"/> <b>Approved with conditions</b>		
<input type="checkbox"/> <b>Disapproved</b>	Title if executed by other than the Commissioner of Department of Transportation and Public Facilities	

**Part 6 - Record of procurement: submit a completed copy of this entire form to the Chief Contracts Officer within 15 days of executing the contract.** When multiple contracts are awarded under an emergency procurement, information pertaining to all contracts must be reported. Under such circumstances, attach additional information in the format below - for each contract.

Complete all of the following:

- (1) Name of Supplier or Contractor: \_\_\_\_\_ (2) Their Zip Code: \_\_\_\_\_
- (3) Contract Amount: \$ \_\_\_\_\_ (4) Contract Identification Number: \_\_\_\_\_ (5) Commodity Code: \_\_\_\_\_
- (6) Type (i.e. Professional Service, Construction, Supplies, etc.): \_\_\_\_\_
- (7) Listing of services, products, construction (etc.) obtained: \_\_\_\_\_
- (8) If other vendors, suppliers or contractors submitted bids or proposals, list the number of these that were:
 

Alaskan Bidders # _____	"Out-of-State" Bidders # _____
-------------------------	--------------------------------

This PART 6 prepared by: \_\_\_\_\_ Date: \_\_\_\_\_

**17.108. Worksite Traffic Supervisor (Form 25D-124)**



STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

**DESIGNATION OF WORKSITE TRAFFIC SUPERVISOR**

Project Name: \_\_\_\_\_

Project No.: \_\_\_\_\_

I, \_\_\_\_\_ hereby designate \_\_\_\_\_ to be the Worksite Traffic Supervisor, WTS, assigned to this project at \_\_\_\_\_. The WTS 24-hour contact phone number is \_\_\_\_\_. The designee has the authority to perform the duties and responsibilities as described in Section 643 of the contract.

The Worksite Traffic Supervisor is certified (attach copy of certification) as:

\_\_\_\_\_

The following lists employment history (see minimum experience required by Section 643-1.04) that provides the experience to perform the duties and tasks required for this project.

<i>Job Title</i>	<i>Project Name</i>	<i>Duties</i>

By signing this certification, I confirm that the designee is qualified and capable of conducting temporary traffic control on the above named project safely and in conformance with approved Traffic Control Plans and the Alaska Traffic Manual. I certify that the information above was reviewed by me and, to the best of my knowledge and belief, is true and accurate.

Name: \_\_\_\_\_

Title: \_\_\_\_\_

Company: \_\_\_\_\_

Signature \_\_\_\_\_

Date: \_\_\_\_\_

## 17.109. Work Zone Accident Report (Form 25D-123)

### Work Zone Accident Report (Form 25D-123)
















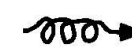


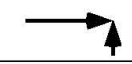



Report WZ accidents to the Regional Traffic and Safety Engineer within 10 calendar days of accident.

Use the Tab key or mouse to navigate, and fill in the requested information.

In boxes with Yes or No choices, double click in a square and in next menu hit checked to fill it in.

- 
1. Project name:
  2. Project number:
  3. Roadway name:
- 
- |   |   |
|---|---|
| <ol style="list-style-type: none"><li>4. Investigated by (DOT&amp;PF employee):</li><li>5. Reported by:</li><li>6. Date &amp; time of arrival at accident site:</li><li>7. Milepost:</li><li>8. Date of accident:</li><li>9. Time of accident:</li><li>10. Number of vehicles involved:</li><li>11. Roadway conditions:</li></ol> | <ol style="list-style-type: none"><li>12. Drivers' names:</li><li>13. Were contractor's vehicles or equipment involved? <input type="checkbox"/> Yes <input type="checkbox"/> No</li><li>14. Were state vehicles or equipment involved? <input type="checkbox"/> Yes <input type="checkbox"/> No</li><li>15. Did the accident happen within project limits? <input type="checkbox"/> Yes <input type="checkbox"/> No</li><li>16. Did the accident happen within the active work zone? <input type="checkbox"/> Yes <input type="checkbox"/> No</li><li>17. Was the accident related to construction activity? <input type="checkbox"/> Yes <input type="checkbox"/> No</li><li>18. Were the police on-site? (If Yes, attach their report) <input type="checkbox"/> Yes <input type="checkbox"/> No</li><li>19. Police Case No.:</li><li>20. Weather conditions:</li></ol> |
|---|---|
- 
21. Severity of injuries:
  22. Accident Narrative:



Types of Collisions		LEGEND			
		Symbols			
	Head-on		Moving Vehicle		Channelizing Device
	Left turn		Backing Vehicle		Type II Barricade
	Rear End		Non-involved Vehicle		Type II Barricade
	Sideswipe – Opposite Direction		Pedestrian		Arrow Panel
	Sideswipe – Same Direction		Parked Vehicle		Sign Support
	Out of Control		Overturned Vehicle		Flagger
	Right Angle		Fixed Object		Work Area
	Fixed Object				

23. Accident Diagram. You may paste an electronic sketch here or attach a hard copy sketch. Use symbols as shown in the Legend above, and include all traffic control devices, vehicles, and equipment involved or near the accident. Indicate North.

## 18. Appendix

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- 18.1. Table 1, Project Milestones
- 18.2. Table II, Posting Requirements for DOT&PF Field Offices, All Projects
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## 18.1. Table 1, Project Milestones

The following milestones and their dates will be documented by another section such as Contracts or Preconstruction.

- Constructability Review. This is often included with the PS&E, it is described in the Highway Preconstruction Manual 450.18.
- PS&E Review. This is construction's last chance to review the project design before it goes out to bid. See ACM 3.2 and Highway Preconstruction Manual 450.19.
- Bid Opening. Bids are opened by contract section. Starts various actions and submittals required of the contractor before Award. See ACM 3.4 and Highway Specification 103-1.01.
- Intent to Award. Indicates the Department's intention to award to a bidder, and the letter is used to convey documents to that bidder for signature. See ACM 3.4 and Highway Specification 103-1.03.
- Escrow Document Delivery. When required by special provision.
- Subcontract List. Submitted by contractor within 5 days of receiving notice of Intent to Award. See ACM 3.4 and Highway Specification 103-1.02.
- Award of Contract. This indicates the contract has been signed, required documents received, and the bid is awarded to the Contractor. See ACM 3.4 and Highway Specification 103-1.03.

The following milestones and dates should be documented by letter or email between the project engineer (or Group Chief/PM) and the contractor. Letters may combine milestones (such as a completion date and a transfer of maintenance responsibilities). This is not an all-inclusive list. Examples of letters are in Chapter 17 Exhibits.

- Notice to Proceed. This authorizes construction and indicates the date that contract time starts. See ACM 3.4 and Highway Specification 108-1.02.
- Preconstruction Conference. This is the first group meeting of the Project Engineer, contractor, and other interested parties. See ACM 3.8 and Highway Specification 108-1.03.
- Notice of Work and Notice of Completion. Requirements of the Department of Labor for the contractor. See ACM 3.8 and 16.2, and Highway Specification 107-1.04.
- Date that the Engineer determines the conditions for ending CGP coverage have been met.
- Notice of Intent and Notice of Termination. A requirement of the Department of Environmental Conservation for the contractor and the Department. See ACM 3.11 and 9.9.6, and Highway Specification 641-1.01.
- Seasonal suspension of work. See ACM 14.3 and 9.9.5, and Highway Specification 643-3.07.
- Contractor maintenance ends. This indicates when the Department will take over some or all maintenance activities. See ACM 15.3 and 15.6, and Highway Specification 105-1.13.
- Final Inspection. The owner, contractor, other interested DOT&PF groups, and funding agencies inspect the project before closeout. See ACM 15.1 and Highway Specification 105-1.15.
- Substantial Completion. This indicates that the project is usable by the public. It also affects the amount of liquidated damages and may affect the contractor's maintenance responsibilities. See ACM 15, and Highway Specification 101-1.03 (definition) and 105-1.13 thru 1.15.
- Partial Completion. The Department accepts a geographically separate portion of the project as being substantially complete. See ACM 15.3 and Highway Specification 105-1.14.
- Project Completion. The Department accepts the entire project as physically complete and stops contract time. See ACM 15.6 and Highway Specification 105-1.15.

- Date Contract Time stops. Normally this is at Project Completion. See ACM 14 and 15.6, and Highway Specification 105-1.15.
- Final Acceptance. This closes the Contract Agreement (except for bonding and warranties) after all work is complete, records are submitted, and final payment made to contractor. See ACM 16.4 and Highway Specification 105-1.16.

## 18.2. Table II, Posting Requirements for DOT&PF Field Offices, All Projects

Required posters include all those listed on the Division of Personnel website at

<http://doa.alaska.gov/dop/resources/mandatoryPosters/> plus other posters required by law or funding agency (+).

**Office of Federal Contract Compliance Programs:** <http://www.dol.gov/ofccp/regs/compliance/posters/ofccpost.htm>

+ **Alaska Whistleblowers Act**, (AS 39.90.100)

+ **Contact Information** for Safety Conscious Work Environment and for Employee Safety Concerns Program (see ECP Manual for information) Attach to bottom of Sexual harassment is Prohibited poster.

+ **Drug Free Workplace Act of 1988**, Required for Federal funding (41USC701).

+ **Emergency Phone Numbers** (Doctors, hospitals and ambulance or 911) must be posted. ADOL's Poster DOSH 51 may be used. Required by OSHS 01.0501(h).

**Employer's Certificate of Self-Insurance**, Alaska Department of Labor. Required by AS 23.30.060.

**Equal Employment Opportunity is the Law**, Federal EEO Commission (Poster EEOC-P/E-1), and

+**"EEO is the Law" Poster Supplement**. Required by 29 CFR 1601.30.

**It's Your Right to Know – Safety and Health Protection on the Job**, Alaska Department of Labor, Standards and Safety. Required by AS 18.60.010 to .105.

**Notice to Employees – Federal Minimum Wage**, U.S. Dept. of Labor Wage & Hour Division (Notice WH 1088). Required by 29 CFR 516.4

**Notice to Employees - Unemployment Insurance**, Alaska Department of Labor, Employment Security Division, Form 07-1012. Required by 8 AAC 85.060.

+ **Policy on Discriminatory Treatment of Individuals with Disabilities**, Alaska Department of Administration, Office of EEO. Poster required by Administration Order 129, Section X-A.

**Sexual Harassment is Prohibited**, Alaska Commission for Human Rights and Federal EEO Commission.

+ **Smoking Prohibited by Law**, Alaska Dept. of Environmental Conservation, Sign 18-1140. Required by AS 18.35.330.

**Summary of Alaska Wage and Hour Act**, Alaska Department of Labor. Required by AS 23.10.105.

**Summary of Alaska Child Labor Law**, Alaska Department of Labor.

**You have a Right to a Safe and Healthful Workplace (It's the Law- Job Safety and Health)**, Alaska Department of Labor, Labor Standards Division (Poster DOSH 2003). Required by OSHS 01.0102(c).

**Your Rights Under the Family and Medical Leave Act**, U.S. Dept. of Labor Wage & Hour Division (Notice WH 1420 or duplicated text). Required by 29 CFR 825.300.

**USERRA - The Uniformed Services Employment and Reemployment Rights Act**, U.S. Dept. of Labor Wage & Hour Division.

### Table II, Posting Requirements for DOT&PF Field Offices, All Projects

#### Common Additional Requirements

**ARRA – Know your Rights Under the Recovery Act!** Poster required on projects funded under American Recovery and Reinvestment Act of 2009. For more information go to website: [www.recovery.gov](http://www.recovery.gov)

**Building Permit**, from State Fire Marshal.

**Construction Permits** from local governments.

**Material Safety Data Sheets/Safety Data Sheets** (OSHA Form 20) for toxic or hazardous substances or agents to which

employees may be exposed. Required OSHS 15.01.01(h).

**Materials Source and Wetlands Permits**, from U.S. Corps of Engineers.

**Nuclear/Radioactive Material Warning Signs and Radiation Incident Reporting Information Sheet**, required where radioactive materials are present.

Note: This list is not comprehensive; many other posting requirements apply in specific circumstances (e.g. asbestos removal, transportation of hazardous materials).

### 18.3. Table III, Posting Requirements in Contractor Offices

The contractor is responsible for required posters, including all those listed on the Department of Labor and Workforce Development website at <http://www.labor.alaska.gov/lss/posters.htm> plus other posters required by law or funding agency including FHWA website <http://www.fhwa.dot.gov/programadmin/contracts/poster.cfm>.

Table III, Posting Requirements in Contractor Offices Required by DOT&PF Construction Contracts		
	Federal Aid Projects	State Funded Projects
Contractor's Civil Rights Representative, DOT&PF Form 25A-302, completed by contractor.	x	X
Contractor's Company Equal Employment Opportunity Policy, prepared by contractor.	x	X
Federal Davis-Bacon Wage Determinations, "Davis-Bacon rates determined by U.S. Department of Labor, attached to either the: <b>Notice to all employees...on Federal...Projects</b> , U.S. Dept. of Labor Wage & Hour Division Poster WH 1321; or <b>Wage Rate Information – Federal Aid Highway Project</b> , FHWA Poster FHWA-1495.	x	
Labor's & Mechanics' Minimum Rates of Pay (Pamphlet 600), determined by Alaska Department of Labor and Workforce Development.	x	X
Notice of Intents, From ADEC's APDES system, contractors and departments, <b>Name and phone number of SWPPP Manager</b> , and <b>Location of SWPPP</b> available for public viewing. Must be posted outside the office and near the beginning and end of the project, in accessible locations.	X	X
Falsification Notice, FHWA-1022	FHWA only	

Note:

1. This is a standard list of postings required by our contracts. Individual contracts may contain language requiring additional posting requirements.
2. Beginning in 2016 there is a new "EEO is the Law" Poster Supplement required on Federal-Aid projects.



## 18.4. Table IV, Filing System Guide

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**Table IV, Filing System Guide, (section 4.2)**

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### **A. Contract Files**

1. Conformed Contract (including half-size plans)
2. Engineers Estimate and Bid Tabulations
3. Directives
4. Change Documents
5. Utility Installation/Relocation Agreements (including payment authorizations/requests)
6. Professional Service Agreements (including amendments and payment authorizations)

### **B. Correspondence and Report Files**

1. Contractor correspondence (including Letter of Award, Notice to Proceed, Progress Schedules, TCP, SWPPP, HMCP)
2. Claims (separate files for each situation, if more than one, and a separate file for Attorney-Client Privilege correspondence)
3. All other correspondence (intra-departmental, inter-agency)
4. Project Construction Reports (weekly/semi-monthly reports)
5. Computer-generated Progress Reports (Engineer's diary, inspector's daily reports)
6. All other reports (safety meeting reports, SWPPP inspection reports, federal agency inspection reports, quality assurance/review reports, accident reports, and Departmental inspection reports).

### **C. Pay Estimate and Quantity Files**

1. Progress Payment Estimates
2. Pay Item Files (set up files for each contract pay item, as needed, to contain or reference the calculations for progress estimate pay quantities).

### **D. Material Files**

1. Material Test Results and Reports (set up files for each contract pay item and type of test, as needed)
2. Pending and Approved Materials Submittals (including Project Materials Reports)

### **E. Administrative Files**

1. Master Index
2. State Funding Information (PDA's, encumbrance memos)
3. Federal Funding Agreements (including amendments and payment requests)
4. Permits (material sources, environmental, building)
5. Overtime Authorization Requests
6. Personnel Files (files for each employee including delegations of authority and assignment memos, time sheets, travel vouchers)
7. Stock Requests
8. Bills, Invoices, Vouchers (for office, utilities, supplies, equipment)
9. Project Engineer's Equipment Inventory
10. Photographic Records (photo albums, video index)

### **F. Design/Project Development Data Files**

1. Materials Report
2. Design Files (including original bid quantity calculations)
3. Right-of-Way Information
4. Project Survey Data

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Only one file in each category may be necessary to accommodate each of the six general categories of files, depending on a project's volume and type of paperwork; other projects may require many files under some of the sub-categories (such as pay item and personnel files).

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## 18.5. Table V, Reference Books, Manuals, Policies

Table V, Reference Books, Manuals, Policies, (section 4.7)						
Required	Federally Funded			State Funded		
	HWY	AIR	MAR	HWY	AIR	MAR
AASHTO-Standard Specifications for Transportation Materials	R	R	R	R	R	R
ADEA, ASEA, Local 71-Collective Bargaining Agreements	X	X	X	X	X	X
ADOL-Construction Code for Occupational Safety & Health Standards	X	X	X	X	X	X
ADOL-Wages and Hours of Laborers.... (Pamphlet No. 400)	X	X	X	X	X	X
DOT&PF-Alaska Construction Manual	X	X	X	X	X	X
DOT&PF-Alaska Oversize & Overweight Permit Movements	X	A	A	X	A	A
DOT&PF-Alaska Product Preference Program Preparation Pamphlet				A	A	A
DOT&PF-Alaska Test Methods Manual	X	X	A	X	X	A
DOT&PF-Qualified Products List	X	X	X	X	X	X
DOT&PF-Policy and Procedures Manual	R	R	R	R	R	R
DOT&PF-Standard Drawings (for Highways)	X		A	X		A
DOT&PF-Standard Specifications for Highway Construction	X		X	X		X
DOT&PF-Storm Water Pollution Prevention Plan Guide	X	X	A	X	X	A
Alaska Statutes, Alaska Administrative Code	R	R	R	R	R	R
ASTM-American Society for Testing Materials Test Methods	R	R	R	R	R	R
FAA-Advisory Circular 150/5345-1A, Approved Airport Lighting Equipment		X			X	
FAA-Advisory Circular 150/5370-2C, Safety on Airports During Construction		X			X	
FHWA/DOT&PF-Alaska Traffic Manual	X	A	A	X	A	A
U.S. DOT-Shipping and transporting requirements (for hazardous materials)	R	R	A	R	R	A
<b>Recommended</b>						
ADCED-Alaska Products Preference List				A	A	A
ADOA-Risk Management Division Claims Reporting Procedures Manual	R	R	R	R	R	R
DOA-State Personnel Rules	R	R	R	R	R	R
DOT&PF-Airport Standard Specifications		X			X	
DOT&PF-Asphalt Pavement Inspector's Manual	A	A	A	A	A	A
Appendix A, 23 CFR 230 (EEO Program)		X				
Asphalt Institute Manual Series	A	A	A	A	A	A
Code of Federal Regulations	R	R	R	R	R	R
FAA-Advisory Circulars		R			R	
FAA-AIP Handbook		X				
FHWA-Federal Aid Program Guide	X		X			
Hot Mix Asphalt Paving Handbook (AASHTO, FAA, FHWA, US Army Corps)	A	A	A	A	A	A
US EPA-NPDES General Permit for Storm Water Discharges	A	A	A	A	A	A
USDOL-Field Operations Handbook, Chapter 15	X	X	X			
X=entire book R=Applicable sections only A=only if applicable						

**Table V (continued), Regional Office Reference**

AASHTO-Standard Specifications for Transportation Materials and Methods of Sampling and Testing  
ADOA-State Personnel Rules  
ADOA-State Procurement Reference Manual  
DOT&PF Alaska Construction Manual  
DOT&PF Policy Manual (DPOL); Policy and Procedures Manual; Procedures Manual (DPDR)  
DOT&PF Pre-Construction Manual  
DOT&PF Procurement Policy and Procedure Manual  
DOT&PF-Alaska Oversize and Overweight Permit Movements manual  
Alaska Administrative Code  
Alaska Statutes  
ASTM-American Society of Testing Materials Standards  
FAA-Advisory Circulars  
FAA-AIP Handbook  
FCC-Radio Communications Procedures  
NRC Regulations (applicable sections)  
Rental Rate Blue Book for Construction Equipment, Volumes 1-3  
USDOT-Shipping and Transporting Requirements

## 18.6. Table VI, Field Lab Testing Equipment

<b>Table VI - Field Lab Testing Equipment (See Section 5.2)</b>	
<b>Basic Aggregate and Soils Lab</b>	
1" and 3" bristle brushes – (2 each)	Gloves
10' and 100' tape measures (one each)	Handling pans (2-3 each)
100 and 1,000 ml graduated cylinders (2-3 each)	Large and small flathead screwdrivers (one each)
18"x18"x3" pans (6-8 each)	Large and small sample splitters with pans (one each)
2"-3" paintbrush for splitter pans	Large and small scoops (2-3 each)
3-5 pound sledge hammer	Large digital scale
5 gallon buckets (10-20 each)	Large Gilson shaker with timer
6' folding ruler	Large magic markers (3 each)
6" proctor mold, 10 lb. hammer, 12" beveled straightedge	Large spoons (3 each)
9"x12" pans (6-8 each)	Liquid limit machine with grooving tool, spatula and tins
Alaska Construction Manual	Nested sieves (#4 and ¾" and 3") full height
Alaska Test Methods manual	No. 10 pre-screen (2 each)
All purpose cleaner/degreaser 32 oz.	No. 200 wash sieves (2 each)
Armored thermometers, 0° to 400° F (3 each)	Nuclear densometer (moisture/density gauge with reference stand, rod, scraper, plate, and charger)
Bench brush, broom, dustpan	Round point and square point shovels (2-3 each)
Calculator (2 each)	Sample bags and liners (10-15 each)
Canvas for quartering	Set of large sieves (4" through No. 4)
Clipboards	Set of nested sieves (8 inch or 12 inch diameter) including 4", 3", 2", 1 ½", 1", ¾", ½", 3/8", No. 4, No. 8, No. 10, No. 16, No. 20, No. 30, No. 40, No. 50, No. 80, No. 100, No. 200, pan, lid
Digital Scale	Sieve brushes (soft and wire bristle) (one each)
Dust masks (one package, double band)	Sieve shaker, 12"
Ear Plugs (box of 100)	Specific gravity bucket with suspension apparatus
Electrical surge protector	State of Alaska aggregate worksheets
Extension cords	State of Alaska density worksheets
Fire extinguisher	Stop watch
First aid kit	Transmittal forms
Forced air oven	Water Bath with overflow and heated circ. system
Garbage bags	Waterproof field books (10/box)
	Zip poly bags, quart size (many)
<b>Table VI - Additional for Asphalt Lab</b>	
1 gallon plastic jug or glass sampling containers (6)	Gloves (heat resistant)
1 liter flasks with stopper (2 each)	Hot plate for tools
1 quart sampling cans with lids and labels (12)	Insulated box for transporting hot mix
1"x6" spatula (2 each)	Large road sign (asphalt sample splitter)
Absolute pressure gauge or Manometer	Liquid soap or dispersing agent (1 quart)
Absorbent pads for spills and cleanup (1 bundle)	Nuclear asphalt content gauge with accessory kit
Aluminum foil	Scale fitted with a suitable suspension apparatus and holder to permit weighing the cores
Asphalt ignition oven with accessory kit with carbon monoxide detector, or nuclear asphalt content gauge with pans	Sealing tape (not duct tape)

Asphalt sample boxes, pails or plate	Silver spray paint
Asphalt saw (wet to separate core lifts)	Small spatulas or putty knives (2)
Asphalt thermometer to 550° F	Splitting paper
Asphalt trowel for splitting samples (2 each)	Spray lubricant & rust preventative
Citrus based solvent (1 gallon)	State of Alaska asphalt worksheets
Cooking spray, high heat, non-sticking	Thermometer 66° to 80° F, graduated in 0.2° F, for cores
Dial thermometers, 50° to 500° F (6 each)	Thermometer accurate to 0.9° F (digital) or calibrated liquid in glass
Electrical surge protector	Vacuum pump or water aspirator, capable of removing air from container to 30 mm HG
Flat bottom scoop	Vacuum pycnometer (2000 g)
<b>Additional for Concrete Lab</b>	
8" torpedo level	Reference Thermometer (Readable to 0.5° F)
Airmer, complete	Rubber mallet (1.25 +/-0.5 lbs.) for up to ½ ft³ measure
Aluminum/Acrylic plate screed	Scale
Board for slump test, non-absorbent surface	Slump cone
Canvas or burlap wheelbarrow cover	Small shims or wedges
Concrete cylinder molds with lids or plastic wrap (12 each)	Squirt bottle
Concrete thermometer, 25° to 125° F (+/-1° F) (2 each)	State of Alaska concrete worksheets
Grout Cube Mold with accessories	Tamping rod, 5/8"x24" with rounded ends
Hand brush for cleanup	Wheel barrow (4 ft³ capacity)
Insulated box or cooler for cylinders	
Latex gloves	
Maximum-minimum thermometer, 30° to 200° F (may need wider range for cold temperatures)	

## 18.7. Table VII, Materials Sample Identification System

<b>Table VII, Materials Sample Identification System, also see ACM 5.4</b>			
Each materials sample taken on a construction contract project will be assigned a four part number that identifies the type of sample, the type of material, the test that will be performed on the sample, and the sequential number of the test in that series on that type of material and sample. When a test sample fails to meet the specifications, the test number is circled in the Materials Testing Summary. A retest of a failing test is identified by adding the letter "A" after the test number for the first retest; a second retest adds the letter "B", and so on. Samples sent to the regional lab for testing will also be identified by this system, in addition to the project name and number, the location the sample was taken, and the name of the sampler. This sample identification system will be used on test results from the field lab and from the regional lab, and on the Materials Testing Summary form. (This table is duplicate of ATMM SP-12. Codes verified on 4/2016)			
<b>Types of Samples</b>			
Acceptance	No prefix	Information	I
Independent Assurance	IA	Quality	Q
<b>Types of Materials</b>			
Aggregate Base Course	BC	Gas Line Conduit	GC
Aggregate Surface Course	SC	Hot Mix Asphalt	HMA
Asphalt Cement	AC	Grout	GR
Asphalt Pathway	AP	Manhole Type (I, II, III)	MH( )
Asphalt Sidewalk	AS	Medium Cure Liquid Asphalt	MC
Asphalt Surface Treatment	AST	Mineral Filler	MF
Asphalt Treated Base Course	ATB	Performance Grade Liquid Asphalt	PG
Bed Course Material	BCM	Porous Backfill	PB
Bedding and Backfill	BB	Reclaimed Asphalt Pavement	RAP
Borrow Material Type (A, B, C)	BM( )	Rip Rap	RR
Common Excavation	CX	Rock Excavation	RX
Concrete Coarse Aggregate	CA	Sewer Conduit	SC
Concrete Fine Aggregate	FA	Sidewalk	SW
Cover Coat Grading B	CCB	Stone Mastic Asphalt	SMA
Crushed Asphalt Base Course	CABC	Structural Backfill Material	B
Culvert	C	Structural Plate Pipe	SPP
Ditch Lining	DL	Subbase	SB
Electrical Conduit	EC	Telephone Conduit	TC
Electrical - Miscellaneous	EL	Television Conduit	TV
Emulsified Asphalt Materials	EAM	Top Soil	TS
Emulsified Treated Base	ETB	Type A Inlet	AI
Field Inlet	FI	Unclassified Excavation	EX
Filter Blanket	FB	Useable Excavation, Type (A, B, C)	EX( )
Filter Material	FM	Waste	EXW
Fire Hydrant	FH	Water Conduit	WC
Foundation Fill	FF	Waterline	WL
Gabion Backfill	GB	Warm Mix Asphalt	WMA
<b>Types of Tests</b>			
Correction Factor – Ignition Oven	CF	Mix Design	MD
Field Density	D	Moisture	M
Fracture Count	F	Oil Content	O
Gradation	G	Plastic Index	PI
Joint Density	JD	Plastic Limit	PL
Liquid Limit	LL	Standard Density	SD

## **18.8 Materials Sampling & Testing Frequency Table for Highways**

The non-project specific MSTF tables for highways are on the D&ES Statewide Materials website at:  
[http://www.dot.state.ak.us/stwddes/desmaterials/mat\\_resource.shtml](http://www.dot.state.ak.us/stwddes/desmaterials/mat_resource.shtml)

## **18.9 Materials Sampling & Testing Frequency Table for Airports**

A project specific MSTF table for airports may be in the contract.

The non-project specific MSTF tables for airports are on the D&ES Statewide Materials website at:  
[http://www.dot.state.ak.us/stwddes/desmaterials/mat\\_resource.shtml](http://www.dot.state.ak.us/stwddes/desmaterials/mat_resource.shtml)

## **18.10 Table X, Reserved**

## **18.11 Table XI, Reserved**

## 18.12 Table XII, Reportable Quantities of Hazardous Substances

Table XII, Federal Reportable Quantities of Hazardous Substances Designated Pursuant to Section 311 of the Clean Water Act - The State of Alaska requires all hazardous substance spills to be reported, regardless of quantity.

Material	Category	RQ in pounds (kg)	Benzene		
			Material	Category	RQ in pounds(kg)
Acetaldehyde	C	1,000 (454)			
Acetic acid	D	5,000 (2,270)	Benzoic acid	D	5,000 (2,270)
Acetic anhydride	D	5,000 (2,270)	Benzonitrile	D	5,000 (2,270)
Acetone cyanohydrin	A	10 (4.54)	Benzoyl chloride	C	1,000 (454)
Acetyl bromide	D	5,000 (2,270)	Benzyl chloride	B	100 (45.4)
Acetyl chloride	D	5,000 (2,270)	Beryllium chloride	X	1 (0.454)
Acrolein	X	1 (0.454)	Beryllium fluoride	X	1 (0.454)
Acrylonitrile	B	100 (45.4)	Beryllium nitrate	X	1 (0.454)
Adipic acid	D	5,000 (2,270)	Butyl acetate	D	5,000 (2,270)
Aldrin	X	1 (0.454)	Butylamine	C	1,000 (454)
Allyl alcohol	B	100 (45.4)	n-Butyl phthalate	A	10 (4.54)
Allyl chloride	C	1,000 (454)	Butyric acid	D	5,000 (2,270)
Aluminum sulfate	D	5,000 (2,270)			
Ammonia	B	100 (45.4)	Cadmium acetate	A	10 (4.54)
Ammonium acetate	D	5,000 (2,270)	Cadmium bromide	A	10 (4.54)
Ammonium benzoate	D	5,000 (2,270)	Cadmium chloride	A	10 (4.54)
Ammonium bicarbonate	D	5,000 (2,270)	Calcium arsenate	X	1 (0.454)
Ammonium bichromate	A	10 (4.54)	Calcium arsenite	X	1 (0.454)
Ammonium bifluoride	B	100 (45.4)	Calcium carbide	A	10 (4.54)
Ammonium bisulfite	D	5,000 (2,270)	Calcium chromate	A	10 (4.54)
Ammonium carbamate	D	5,000 (2,270)	Calcium cyanide	A	10 (4.54)
Ammonium carbonate	D	5,000 (2,270)	Calcium	C	1,000 (454)
Ammonium chloride	D	5,000 (2,270)	dodecylbenzenesulfonate		
Ammonium chromate	A	10 (4.54)	Calcium hypochlorite	A	10 (4.54)
Ammonium citrate dibasic	D	5,000 (2,270)	Captan	A	10 (4.54)
Ammonium fluoborate	D	5,000 (2,270)	Carbaryl	B	100 (45.4)
Ammonium fluoride	B	100 (45.4)	Carbofuran	A	10 (4.54)
Ammonium hydroxide	C	1,000 (454)	Carbon disulfide	B	100 (45.4)
Ammonium oxalate	D	5,000 (2,270)	Carbon tetrachloride	A	10 (4.54)
Ammonium silicofluoride	C	1,000 (454)	Chlordane	X	1 (0.454)
Ammonium sulfamate	D	5,000 (2,270)	Chlorine	A	10 (4.54)
Ammonium sulfide	B	100 (45.4)	Chlorobenzene	B	100 (45.4)
Ammonium sulfite	D	5,000 (2,270)	Chloroform	A	10 (4.54)
Ammonium tartrate	D	5,000 (2,270)	Chlorosulfonic acid	C	1,000 (454)
Ammonium thiocyanate	D	5,000 (2,270)	Chlorpyrifos	X	1 (0.454)
Amyl acetate	D	5,000 (2,270)	Chromic acetate	C	1,000 (454)
Aniline	D	5,000 (2,270)	Chromic acid	A	10 (4.54)
Antimony pentachloride	C	1,000 (454)	Chromic sulfate	C	1,000 (454)
Antimony potassium tartrate	B	100 (45.4)	Chromous chloride	C	1,000 (454)
Antimony tribromide	C	1,000 (454)	Cobaltous bromide	C	1,000 (454)
Antimony trichloride	C	1,000 (454)	Cobaltous formate	C	1,000 (454)
Antimony trifluoride	C	1,000 (454)	Cobaltous sulfamate	C	1,000 (454)
Antimony trioxide	C	1,000 (454)	Coumaphos	A	10 (4.54)
Arsenic disulfide	X	1 (0.454)	Cresol	B	100 (45.4)
Arsenic pentoxide	X	1 (0.454)	Crotonaldehyde	B	100 (45.4)
Arsenic trichloride	X	1 (0.454)	Cupric acetate	B	100 (45.4)
Arsenic trioxide	X	1 (0.454)	Cupric acetoarsenite	X	1 (0.454)
Arsenic trisulfide	X	1 (0.454)	Cupric chloride	A	10 (4.54)
Barium cyanide	A	10 (4.54)	Cupric nitrate	B	100 (45.4)
			Cupric oxalate	B	100 (45.4)



<i>Material</i>	<i>Category</i>	<i>RQ in pounds (kg)</i>
Cupric sulfate	A	10 (4.54)
Cupric tartrate	B	100 (45.4)
Cyanogen chloride	A	10 (4.54)
Cyclohexane	C	1,000 (454)
2,4-D Acid	B	100 (45.4)
2,4-D Esters	B	100 (45.4)
DDT	X	1 (0.454)
Diazinon	X	1 (0.454)
Dicamba	C	1,000 (454)
Dichlobenil	B	100 (45.4)
Dichlone	X	1 (0.454)
Dichlorobenzene	B	100 (45.4)
Dichloropropane	C	1,000 (454)
Dichloropropene	B	100 (45.4)
Dichloropropene-	B	100 (45.4)
Dichloropropane (mixture)		
2,2-Dichloropropionic acid	D	5,000 (2,270)
Dichlorvos	A	10 (4.54)
Dicofol	A	10 (4.54)
Dieldrin	X	1 (0.454)
Diethylamine	B	100 (45.4)
Dimethylamine	C	1,000 (454)
Dinitrobenzene (mixed)	B	100 (45.4)
Dinitrophenol	A	10 (45.4)
Dinitrotoluene	A	10 (4.54)
Diquat	C	1,000 (454)
Disulfoton	X	1 (0.454)
Diuron	B	100 (45.4)
Dodecylbenzenesulfonic acid	C	1,000 (454)
Endosulfan	X	1 (0.454)
Endrin	X	1 (0.454)
Epichlorohydrin	B	100 (45.4)
Ethion	A	10 (4.54)
Ethylbenzene	C	1,000 (454)
thylenediamine	D	5,000 (2,270)
Ethylenediamine-	D	5,000 (2,270)
tetraacetic acid (EDTA)		
Ethylene dibromide	X	1 (0.454)
Ethylene dichloride	B	100 (45.4)
Ferric ammonium citrate	C	1,000 (454)
Ferric ammonium oxalate	C	1,000 (454)
Ferric chloride	C	1,000 (454)
Ferric fluoride	B	100 (45.4)
Ferric nitrate	C	1,000 (454)
Ferric sulfate	C	1,000 (454)
Ferrous ammonium sulfate	C	1,000 (454)
Ferrous chloride	B	100 (45.4)
Ferrous sulfate	C	1,000 (454)
Formaldehyde	B	100 (45.4)
Formic acid	D	5,000 (2,270)
Fumaric acid	D	5,000 (2,270)
Furfural	D	5,000 (2,270)

<i>Material</i>	<i>Category</i>	<i>RQ in pounds (kg)</i>
Guthion	X	1 (0.454)
Heptachlor	X	1 (0.454)
Hexachlorocyclopentadiene	A	10 (4.54)
Hydrochloric acid	D	5,000 (2,270)
Hydrofluoric acid	B	100 (45.4)
Hydrogen cyanide	A	10 (4.54)
Hydrogen sulfide	B	100 (45.4)
Isoprene	B	100 (45.4)
Isopropanolamine	C	1,000 (454)
dodecylbenzenesulfonate		
Kepone	X	1 (0.454)
Lead acetate	A	10 (4.54)
Lead arsenate	X	1 (0.454)
Lead chloride	A	10 (4.54)
Lead fluoborate	A	10 (4.54)
Lead fluoride	A	10 (4.54)
Lead iodide	A	10 (4.54)
Lead nitrate	A	10 (4.54)
Lead stearate	A	10 (4.54)
Lead sulfate	A	10 (4.54)
Lead sulfide	A	10 (4.54)
Lead thiocyanate	A	10 (4.54)
Lindane	X	1 (0.454)
Lithium chromate	A	10 (4.54)
Malathion	B	100 (45.4)
Maleic acid	D	5,000 (2,270)
Maleic anhydride	D	5,000 (2,270)
Mercaptodimethur	A	10 (4.54)
Mercuric cyanide	X	1 (0.454)
Mercuric nitrate	A	10 (4.54)
Mercuric sulfate	A	10 (4.54)
Mercuric thiocyanate	A	10 (4.54)
Mercurous nitrate	A	10 (4.54)
Methoxychlor	X	1 (0.454)
Methyl mercaptan	B	100 (45.4)
Methyl methacrylate	C	1,000 (454)
Methyl parathion	B	100 (45.4)
Mevinphos	A	10 (4.54)
Mexacarbate	C	1,000 (454)
Monoethylamine	B	100 (45.4)
Monomethylamine	B	100 (45.4)
Naled	A	10 (4.54)
Naphthalene	B	100 (45.4)
Naphthenic acid	B	100 (45.4)
Nickel ammonium sulfate	B	100 (45.4)
Nickel chloride	B	100 (45.4)
Nickel hydroxide	A	10 (4.54)
Nickel nitrate	B	100 (45.4)
Nickel sulfate	B	100 (45.4)
Nitric acid	C	1,000 (454)

<i>Material</i>	<i>Category</i>	<i>RQ in pounds (kg)</i>	<i>Material</i>	<i>Category</i>	<i>RQ in pounds (kg)</i>
Nitrobenzene	C	1,000 (454)	Styrene	C	1,000 (454)
Nitrophenol (mixed)	B	100 (45.4)	Sulfuric acid	C	1,000 (454)
Nitrotoluene	C	1,000 (454)	Sulfur monochloride	C	1,000 (454)
			2,4,5-T acid	C	1,000 (454)
Paraformaldehyde	C	1,000 (454)	2,4,5-T amines	D	5,000 (2,270)
Parathion	A	10 (4.54)	2,4,5-T esters	C	1,000 (454)
Pentachlorophenol	A	10 (4.54)	2,4,5-T salts	C	1,000 (454)
Phenol	C	1,000 (454)			
Phosgene	A	10 (4.54)	TDE	X	1 (0.454)
Phosphoric acid	D	5,000 (2,270)	2,4,5-TP acid	B	100 (45.4)
Phosphorus	X	1 (0.454)	2,4,5-TP acid esters	B	100 (45.4)
Phosphorus oxychloride	C	1,000 (454)	Tetraethyl lead	A	10 (4.54)
Phosphorus pentasulfide	B	100 (45.4)	Tetraethyl pyrophosphate	A	10 (4.54)
Phosphorus trichloride	C	1,000 (454)	Thallium sulfate	B	100 (45.4)
Polychlorinated biphenyls	X	1 (0.454)	Toluene	C	1,000 (454)
Potassium arsenate	X	1 (0.454)	Toxaphene	X	1 (0.454)
Potassium arsenite	X	1 (0.454)	Trichlorfon	B	100 (45.4)
Potassium bichromate	A	10 (4.54)	Trichloroethylene	B	100 (45.4)
Potassium chromate	A	10 (4.54)	Trichlorophenol	A	10 (4.54)
Potassium cyanide	A	10 (4.54)	Triethanolamine	C	1,000 (454)
			dodecylbenzenesulfonate		
Potassium hydroxide	C	1,000 (454)	Triethylamine	D	5,000 (2,270)
Potassium permanganate	B	100 (45.4)	Trimethylamine	B	100 (45.4)
Propargite	A	10 (4.54)			
Propionic Acid	D	5,000 (2,270)	Uranyl acetate	B	100 (45.4)
Propionic anhydride	D	5,000 (2,270)	Uranyl nitrate	B	100 (45.4)
Propylene oxide	B	100 (45.4)			
Pyrethrins	X	1 (0.454)	Vanadium pentoxide	C	1,000 (454)
			Vanadyl sulfate	C	1,000 (454)
Quinoline	D	5,000 (2,270)	Vinyl acetate	D	5,000 (2,270)
			Vinylidene chloride	B	100 (45.4)
Resorcinol	D	5,000 (2,270)			
			Xylene (mixed)	B	100 (45.4)
Selenium oxide	A	10 (4.54)	Xylenol	C	1,000 (454)
Silver nitrate	X	1 (0.454)			
Sodium	A	10 (4.54)	Zinc acetate	C	1,000 (454)
Sodium arsenate	X	1 (0.454)	Zinc ammonium chloride	C	1,000 (454)
Sodium arsenite	X	1 (0.454)	Zinc borate	C	1,000 (454)
Sodium bichromate	A	10 (4.54)	Zinc bromide	C	1,000 (454)
Sodium bifluoride	B	100 (45.4)	Zinc carbonate	C	1,000 (454)
Sodium bisulfite	D	5,000 (2,270)	Zinc chloride	C	1,000 (454)
Sodium chromate	A	10 (4.54)	Zinc cyanide	A	10 (4.54)
Sodium cyanide	A	10 (4.54)	Zinc fluoride	C	1,000 (454)
Sodium	C	1,000 (454)	Zinc formate	C	1,000 (454)
dodecylbenzenesulfonate					
Sodium fluoride	C	1,000 (454)	Zinc hydrosulfite	C	1,000 (454)
Sodium hydrosulfide	D	5,000 (2,270)	Zinc nitrate	C	1,000 (454)
Sodium hydroxide	C	1,000 (454)	Zinc phenolsulfonate	D	5,000 (2,270)
Sodium hypochlorite	B	100 (45.4)	Zinc phosphide	B	100 (45.4)
Sodium methylate	C	1,000 (454)	Zinc silicofluoride	D	5,000 (2,270)
Sodium nitrite	B	100 (45.4)	Zinc sulfate	C	1,000 (454)
Sodium phosphate, dibasic	D	5,000 (2,270)	Zirconium nitrate	D	5,000 (2,270)
Sodium phosphate, tribasic	D	5,000 (2,270)	Zirconium potassium fluoride	C	1,000 (454)
Sodium selenite	B	100 (45.4)	Zirconium sulfate	D	5,000 (2,270)
Strontium chromate	A	10 (4.54)	Zirconium tetrachloride	D	5,000 (2,270)
Strychnine	A	10 (4.54)			

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## 18.13. Bridges (Reserved)

### 18.14. Earthwork and Drainage

The items of work discussed in this section on earthwork and drainage include those construction operations necessary to complete the facility to the top of the subgrade.

The subgrade is considered to be the top surface of the embankment and is the graded surface upon which the subbase, base course, paving, and shoulders will be constructed. In the case of a project involving stage construction, the subgrade may be the top surface required by the contract. Such items as clearing and grubbing, earthwork, culverts and the installation of minor drainage and erosion control structures are usually considered in this category.

#### 18.14.1 Structural Design

The construction of any facility consists of a number of correlated operations, which must be integrated to produce a finished product. Each step has a definite effect on the quality of that product. In any type of construction, the preparation of the foundation is the first and one of the most important stages of the work. In the case of highways or airports, grading and drainage make up the foundation, and regardless of the care taken in succeeding phases of the work, a durable facility cannot be attained if it has an unsatisfactory foundation or is inadequately drained.

The basic concept of structural design is selecting, from preliminary tests, the most suitable available materials and placing them most advantageously. Their grouping in horizontal layers under the surfacing is such that the most benefit will be derived from the inherent qualities of each material. In establishing the depth of each layer, the objective is to provide the minimum thickness that will reduce the unit stress in the next lower layer commensurate with the load-carrying capacity of the material within that layer. Introducing inferior material at a lesser depth than that for which it was designed will upset the equilibrium of such a design. For this reason, field personnel must be constantly alert during construction to guard against the use of material of a lesser quality than that allowed by the plans and specifications.

#### 18.14.2 Preliminary Checking of Plans and Outlining of Work

Prior to the start of work, the project engineer is to review the plans and specifications onsite and to note all conditions, as follows:

1. Note topography, drainage, and the general characteristics of material to be handled.
2. Check borrow and material pits for size, nature, and locations.
3. Check all rights-of-way. Note utility agreements and special agreements regarding both right-of-way and material sites. Do not allow encroachments on private property without permission of the property owner.
4. Note all obstructions within the right-of-way that may interfere with construction. Notify the proper parties of obstructions they must move.
5. Check all drainage and structures.
6. Investigate completely and report to the project manager/group chief any significant conditions that may require a change document.
7. Analyze the Traffic Control Plans (TCPs) for handling traffic during construction. Note any special conditions in the special provisions.
8. Consult airport managers and keep them fully informed of *all* operations. Complete coordination between the airport manager, contractor, and project personnel is essential.
9. Contact The FAA project manager and airport manager concerning runway closures or partial closures and other construction features that may or will result in issuance of a NOTAM (Notice to Airmen). Full cooperation with the FAA is required on all airport projects.

#### 18.14.3 Authority and Duties of Inspectors

Grading and drainage inspectors work under the supervision of the project engineer and are directly responsible to him or her in all matters pertaining to the work. To realize the importance of the duties, the grade inspector needs only to recognize that the greatest portion of embankment failures is due to deficiencies in the subgrade. Inspectors are authorized to inspect all work performed and materials furnished. Such inspection may extend to all or any part of the work. The inspector is not authorized to issue

instructions contrary to the plans and specifications, or to act as foreman for the contractor. The inspector shall notify the project engineer at once of any changes affecting the quality of work or disagreement with the contractor.

The inspector must become familiar with the plans, specifications, special provisions, staking procedures, the Geotechnical Report, the cross-sections, the balance points, and proposed drainage features.

When the inspector is given transportation for maximum coverage of a construction project, it does not mean that inspecting duties can be performed from the vehicle. As an example, it is impossible to check blue tops for base course from a vehicle. The so-called "ride test" will never replace or duplicate work with hand level, cloth tape, and a 10- or 16-foot straightedge.

A grading and drainage inspector's duties are divided into the following classifications:

1. Inspection of clearing and grubbing; excavation of cuts and/or drainage operations; and the construction of embankments
2. Sampling and testing, or notifying the field laboratory technician responsible for the sampling and testing when required
3. Measuring or verifying pay quantities
4. Keeping daily records of work in progress and making required reports; including, if required, a complete, factual, legible diary

#### **18.14.4 SWPPP Requirements**

The contractor must have an approved Storm Water Pollution Prevention Plan (SWPPP) and a Notice of Intent (NOI), if one acre or more of ground is disturbed. The contractor may not begin earth disturbing activities until after: the Alaska Department of Environmental Conservation (DEC) has listed the contractor's and the Department's project NOIs as active status on their web site, and the SWPPP Preparer has visited the site and signed a SWPPP Pre-Construction Site Visit (Form 25D-106). For more information on the SWPPP, see Sections 3.11 and 9.9.

#### **18.14.5 Clearing and Grubbing**

Complete clearing and grubbing in advance of grading operations in accordance with the specifications. This work consists of clearing the ground within the required limits and materials sites of trees, brush,

rubbish, berm piles left from previous construction, and other objectionable material; then grubbing the stumps and larger roots.

No grading is permitted in any area until the clearing and grubbing has been completed to the satisfaction of the engineer. Scattered piles of debris within the usable excavation or embankment area may be easily incorporated in a fast-moving grading job unless the inspector is alert to prevent it.

During the course of construction, ditches, waterways and culverts frequently become clogged or partially filled with debris. The inspector must see that such obstructions are cleared in a satisfactory manner.

#### **Burning**

When burning combustible material, the contractor is required to observe all federal, state, and local regulations. Advise the contractor that he or she is responsible for compliance with laws relating to the creating of fire hazards and setting forest fires, including obtaining required burning permits. Pay particular attention to obligations for fire prevention and control. Before burning debris, remove it from areas adjacent to the trees and shrubs selected to remain.

#### **Other Methods of Disposal**

Where the specifications allow, areas outside the actual construction limits may be cleared by hydro axing or chipping. Where this is allowed, the debris remains are left on the ground; however, the specifications usually provide for a maximum size allowable and even distribution of debris or chips.

The specifications may require that debris from the clearing and grubbing operations are removed from the project, burned, or otherwise disposed of with the approval of the project engineer. Some contractors tend to dispose of this material by placing it on the abutting property. Permit this only when the contractor will dispose of this material outside of the right-of-way and where the contractor has written permission from the landowner (not the tenant) to use the land and has obtained permits (Army Corps of Engineers). All disposals will be in accordance with the specification requirements for the project.

#### **18.14.6 Earthwork**

The operations of excavating borrow and the placing, compacting, and finishing of the excavated material in the embankment or fills are among the most common

operations in our construction work. These operations are practically inseparable, since one operation is rarely carried out without the other, and so we generally consider, inspect, and control them as a single grading operation. The bulk of the grade inspector's duties and responsibilities are the inspection and control of the excavation and embankment work of the grading operation.

### **Survey Materials Report**

Furnish the materials report to the project engineer at the beginning of a project. It is prepared from tests of samples taken from borings or test pits at the time the material survey is made.

Since the design of the facility was based on information from the materials report, make a thorough check of the actual soils encountered while constructing the subgrade. Notify the project engineer if you encounter soils that vary from those shown in the materials report. The project engineer may find it necessary to consult the project manager/group chief or the regional materials engineer. When notifying the regional construction office, the project engineer must make recommendations as to what action should be taken and have all the factual data.

### **18.14.7 Excavation**

Excavation consists of excavating cuts, borrow pits, drainage channels, ditches, etc., for the construction of embankments or waste, in accordance with the requirements of the plans. It includes the removal and disposal of all materials encountered in the excavation, except those items for which direct payment is made separately.

In the event the specifications provide that the contractor will be paid twice for the volume of any materials excavated, stockpiled, and later used in the work, extreme care must be employed in measuring the material.

### **Unsuitable Material**

As a guide, silty soils encountered in excavation with a natural moisture content over 5 percentage points above the optimum moisture as determined by ATM 207, Method D, may be designated as unsuitable material and disposed, at the discretion of the project engineer, unless the contract states otherwise. Use ATM 207, Method D, or ATM 212 to determine maximum densities. In-place field densities will be determined in accordance with ATM 213 and ATM 214.

In the event that the specifications indicate that density requirements will not apply to the portions of embankments constructed that cannot be tested in accordance with ATM 207, Method D, and the specifications require no special rolling requirements, place materials in lifts not exceeding eight inches, or the diameter of the maximum size particle, and route construction equipment uniformly over the entire surface of each layer until embankment does not rut under the loaded hauling equipment.

During the excavation operations, it is necessary at all times to observe the nature of the material encountered. Adverse soils, such as certain silts that exhibit large changes in volume with varying water content, are usually unstable under varying moisture conditions and frost action, and you should use them with discretion. It is essential that you give full consideration to making the best possible use of the soil material encountered in the excavation. However, you should avoid the use of soils that may cause instability in the embankment, or that may have some other detrimental effect, unless adequately treated to make them satisfactory. Soils, which are unsuitable in the upper portions of the subgrade, may often be used in the bottom or center of the embankment mass where their detrimental effects will be minimized. Recommendations on use of those materials should come from the designer or regional materials engineer and be documented.

Remove unsuitable material and replace it with acceptable material as provided in the specifications. Field tests documenting that the materials are unsuitable for use in embankments will be required for all wasted excavation.

It is the intent of the specifications that all usable excavation be placed in the embankment. Contract plans usually include quantities of unsuitable material to be wasted from excavation sections. Materials, which are usually designated as waste on the plans, are peat and muck, soils with a high percentage of vegetable matter, or silts and clays with high natural moisture content. The quantities shown on the plans as waste reflect only the best estimate, which the design sections are able to make on the basis of available materials reports and their knowledge of moisture conditions, which may be anticipated during the construction period. Estimates are based on a limited number of borings judged to be representative of the area. During construction, there may be considerable variation in the required depths of stripping or in the

extent of pockets of unsuitable materials, such as muck or peat. Further, variations in moisture content throughout a season or even in a matter of hours may have a substantial effect on certain materials and may make the difference as to whether they can be used or must be wasted. Under such circumstances, it is scarcely reasonable to expect the designer to include firm estimates of such quantities in the plans.

In many instances, the decision on whether or not this material must be removed is obvious regardless of whether the quantities conform to the plan estimate. However, in many other instances the decision is not so obvious due to the basic borderline nature of the material or as a result of the variations in moisture content. The decision on whether the material will be used or wasted must be made at the site with full knowledge of all the facts on its suitability for use in the embankment, the length of haul, and the cost of replacement with suitable borrow material.

When variations from plan quantities are rather minor and the distinction between usable material and waste is readily apparent, it is anticipated that the decision to waste or use will be made at the project level. When it is evident that a large quantity of excavated material intended for use as embankment must be wasted, a change document might be necessary to adjust the unit price, and the project engineer should immediately notify the project manager/group chief. Project engineers and inspectors do not have authority to order large quantities of waste not contemplated on the plans. When you must make extensive changes or when you encounter unusual soil conditions, consult the regional office at the earliest possible time so that you can consider methods to eliminate the waste.

In all cases where overruns in waste occur, document the overruns in the inspector's daily report and sample and test to establish the classification and moisture content of the material being wasted: a minimum of one gradation, P.I., and moisture content per undesignated waste cut. See the Material Sampling & Testing Frequency tables in sections 18.8 and 18.9.

The specifications require the use of useable excavation before placing borrow. There are occasional instances where it is advantageous to waste good material. Such an occurrence might result when the distance from the excavation to the embankment is so great that the additional haul would cause such material to be more expensive than wasting and substituting borrow from a nearer source.

### **Undercutting and Over-excavating**

The following applies to projects where payment is other than to neat line as shown on the plans.

The specifications do not allow payment for materials excavated beyond the limits of the required slopes, except in certain cases. The inspector must continually inspect the construction of all slopes and ditches. If at any time the contractor excavates outside the slope stakes or below subgrade, except as required on the plans or as directed by the project engineer, or if the contractor over-excavates the slopes, or by methods of operation cause overbreak, the project engineer will immediately notify them that the specifications and contract do not permit payment for such excavation.

Where contractors excavate below subgrade, except as required on the plans or directed by the project engineer, they will replace the excavated material with a material of equal or better quality at their own expense. Before the work is accepted, the facility shall be substantially true to line, grade, and section shown on the plans.

### **Blasting**

Overshooting of rock may shatter the adjacent hillside far behind the backslope, causing subsequent slides and over-breakage. Powder work is highly specialized, more an art than a science, and few, if any Department personnel have the knowledge and expertise required to actually criticize a contractor's drilling and shooting operations. Project personnel must be extremely careful to avoid any action that can be construed as assuming responsibility for the management of the contractor's operations. The contractor is required to have a licensed Powderman with a certificate of fitness for explosive handlers.

Project personnel can obtain copies of the "Blaster's Handbook" and familiarize themselves with the rules, regulations, properties, uses, and action of explosives. Before drilling, the contractor must furnish the project engineer with a blasting plan. The plan shows the pattern and depth of drill holes, type and amount of explosives used, loading pattern and sequence of firing. See Exhibit A for Sample Blasting Notes.

If the contractor's operation is not producing the desired results and the contractor appears to be making no effort to change, the project engineer will notify the contractor in writing, specifying what the problem is, that there appears to be no attempt at correction forthcoming, and that overbreak and slides

due to overshooting, which is usually the problem, will be at the contractor's expense.

Safety is primarily the contractor's responsibility but project personnel on projects requiring powder work should secure and become familiar with all applicable federal and state laws and regulations governing the storage, transportation, and use of explosives. The Powderman is responsible for all activities of employees within the blasting area and within 100 feet of the blasting area. The Powderman controls access by employees to this area. Employees may not enter the area until the Powderman gives the clearance to do so.

Particular care must be taken to ensure that there is no drilling behind the backslopes. However, drilling below grade is common practice to ensure that no points of rock are left sticking up between drill holes. The specifications recognize this and may provide for payment for excavation and backfill below plan grade.

### **Overbreak and Slides**

The specifications may provide for payment of overbreak due to blasting operations. If excessive overbreak is occurring, the project engineer should proceed as outlined in Section 18.14.7, Unsuitable Material.

### **Excess Material**

Excess required unclassified excavation should be used to the state's best advantage uniformly within the right-of-way limits, unless other methods are provided in the contract.

### **18.14.8 Borrow**

In addition to the usable unclassified excavation, borrow is material required for embankments or other portions of the work, which is normally obtained from outside the project limits.

Although the specifications provide that the contractor may furnish material from sources of his or her choice, borrow sources require approval by the project engineer and must meet gradation and liquid limits requirements. Approval should be in writing.

Do not place borrow in an embankment until all usable excavation has been utilized as provided for in the plans.

### **Approval of Borrow Pits**

When material sources are designated on the plans, no additional approval is required. A designated source does not guarantee acceptance of all the material in the pit. The contractor may use the source as long as the material continues to satisfy the requirements indicated in the contract. The project engineer may reject portions of the deposit as unacceptable or may reject any material produced from a designated source that does not meet the specification requirements.

When the contractor wants to use sources other than those included on the plans, he or she may use the material only after samples prove the material is acceptable, and the project engineer gives written approval. The contractor and the project engineer should clearly understand that approval of a contractor-furnished source in no way relieves the contractor of his responsibility for furnishing material meeting the specifications.

### **Quality**

Materials produced at the site by the contractor must meet various standards of quality. You should request that the contractor furnish the location of the sources of these materials well in advance of production so that it will not cause a delay because of the time involved in testing. See the Materials Sampling & Testing Frequency tables in sections 18.8 and 18.9 for materials with quality requirements.

### **Pit Stripping**

In the event that borrow pit clearing and/or stripping is required, it is important that the project engineers familiarize themselves with all of the pertinent requirements of the plans, specifications, special provisions, pit agreements, and environmental concerns, as well as the information available in the materials investigation report.

If the contract includes pit clearing and/or stripping as pay items, it is important that only those portions of the pits be staked that are needed to satisfy the quantity requirements of the project, keeping in mind adequate provisions for sloping, working floor space, and access to and from the pit area. A pit development plan may be required under the contract.

Because of the usual difference in unit prices between the cost of pit stripping and the cost of the borrow material, exercise care in determining stripping limits.



## Haul Roads

Locate haul roads so that a minimum of haul, if haul is a contract pay item, will be required. In the normal instance where material will be hauled in two directions from the junction with the facility, a haul road with right angles to centerline is satisfactory. However, such factors as terrain, soil conditions, drainage, and the necessity for preserving natural vegetative cover must be taken into consideration. Check right-of-way plans and pit agreements to ensure that you have obtained the right to use the proposed location. In no instance should you allow the contractor to haul across private property without the written permission of the owner.

### 18.14.9 Embankment

The end results of the grading operation are a completed embankment having a high stability and density. The specifications include general requirements with respect to preparation work for the embankment construction. These requirements include suitability of materials, the use or disposal of unsuitable materials, requirements for benching existing side hill slopes, use of frozen material, and construction of embankments on existing surfacing. The grade inspector should be thoroughly familiar with these requirements and should be certain that the grade foreman is also familiar with them.

The grade inspector will inspect the contractor's operations and procedures, as necessary, to obtain stability and the density specified. The inspection and control necessary will vary considerably depending on the requirements specified, the type of soil and ease of compaction, the moisture control necessary, weather conditions, the skill of the contractor's forces, numbers and types of equipment, and other factors. Density tests are an aid to and a verification of the proper compaction of the finished embankment.

Experience shows that despite good grading operations and proper compactive effort in the construction of embankments, there are a number of items that, if not carefully observed and specifically inspected, may result in settlement. These special attention areas are as follows:

1. Settlement or sideslip may result on existing fill slopes or side hills if the original ground is not properly benched. Give careful inspection to the matter of benching side hill slopes and existing embankment slopes to be widened, as indicated in the plans and specifications.

2. Settlement may result at cut-to-fill transitions due to fill taper and insufficient compaction in the natural ground at the beginning of the fill. Give particular attention to the compaction of the new embankment at these points during the course of construction.
3. Settlement in areas adjacent to or over structures frequently occurs. Probably the most important inspection feature in this connection is the proper placement and compaction of material in the areas inaccessible to rollers, and the compactive effort of the earth-moving equipment. In most cases, you can eliminate this by close inspection of compaction by small mechanical tampers.
4. Compact backfills at bridge abutments, wings, and retaining walls carefully. Step the slope of the existing ground to prevent wedging against the wall. Use material that will compact readily, if available. Do not use silty soil. During backfill operations, check possible displacement of wing or abutment walls as the backfill progresses.
5. The grade inspector should be alert to possible damage to any drainage structure, which the contractor's heavy equipment may cross or work over, and particularly to possible damage to pipe culverts with minimum fill heights over the structure.

The grade inspector must insist on the construction of slopes conforming to the typical cross section. Encourage the contractor to maintain adequate surface crown during construction to facilitate proper drainage. Note actual limits of haul from each source in the daily diary, and report (if required), as well as any cross haul.

On some projects, you may encounter major shortages or overages in the quantity of excavated material available to construct the embankments. The proper solution of such problems will vary depending on the cause of the excess or shortage of material. Revising the grade lines, rebalancing, or obtaining additional material outside construction limits or balance points shown on the plans may involve additional haul with problems and measurements incidental thereto. Accordingly, if you encounter more than minor shortage or excess of excavation material, contact the project engineer for instruction. Any significant changes in the plans to correct for shortage or excess of excavation may require a change document.

### **Uniform Density**

Compaction directly affects supporting power of soils. The lower the compaction, the lower the supporting power at any given moisture content. Improperly compacted embankments will consolidate non-uniformly under traffic, resulting in an uneven surface. Soils vary widely in the amount of compactive effort necessary to reach a common degree of compaction.

Take care to obtain uniform density throughout each fill rather than to have some areas compacted in excess of the density requirements while others are below requirements. Encourage full width embankment construction where possible. This will ensure more uniform density; it is essential that the moisture content be uniform. In most cases, the required density can be obtained with the least effort if the moisture content is close to the optimum obtained by the standard moisture density test.

### **Layer Method**

The specifications state that embankment must be placed in horizontal layers not to exceed eight inches, except when the excavated material consists predominately of rock fragments or boulders of such size that the material cannot be placed in layers of the thickness prescribed without crushing, pulverizing, or further breaking down the pieces resulting from the excavation or when the initial lift of embankment is to be placed over swampy or saturated ground. When the layer method is employed, the prescribed thickness (loose measurement) of the material should be placed in horizontal layers and compacted as specified prior to placement of each succeeding layer. Material of such size that it cannot be placed in layers of the thickness prescribed may be placed in the embankment in layers not exceeding in thickness the approximate average size of the larger rocks. The thicker lifts shall not be constructed above an elevation two feet below the finished subgrade. However, the contractor is permitted to end dump an initial lift of material of sufficient depth to support hauling equipment when embankments are to be placed over swampy or saturated ground.

### **Density Control Method**

The contract will show any areas and the distance below subgrade to which moisture and density control will apply. Where it is necessary to add water for compaction, this may be done either in the cut, borrow pit, or on the fill.

In general, the moisture content required for compaction should approximate the optimum obtained by laboratory tests. However, the construction optimum moisture content for any given soil is not necessarily the same as the laboratory optimum but will vary from it within a small range, depending on the type and weight of the compacting equipment and the method of operation.

Materials having a high percentage of fines are susceptible to over-watering. Avoid such over-watering. When the soil voids are completely filled with moisture, no more compaction is possible by rolling. The pore pressure instead of the soil is supporting the roller and quaking or rubbery action under the roller is evident. Unless corrected by draining or drying, this quaking will be reflected through the base material courses and it will not be possible to properly compact the base material. No lift may be covered by another until the required compaction is obtained.

### **Using Oversize Rock**

Do not permit gouging or digging of holes in the original ground surface or in any layers of the embankment for the purpose of disposing of large boulders. Dispose of them to the satisfaction of the project engineer.

### **Compaction Equipment**

The choice of compaction equipment is normally left to the contractor unless otherwise stipulated in the specifications.

In general, heavy steel rollers will be best for cohesive soils, while the pneumatic rollers and vibratory compactors will work better on sand and gravel-type materials of low plasticity. Grid rollers have been found to be advantageous in broken rock.

Proper routing of the contractor's hauling equipment over the fill area is another essential operation in obtaining uniformity in the compacted area. One of the main difficulties the inspector will encounter in constructing embankments will be that the rate of placing material in the fill area may far exceed the compaction capacity of the contractor's equipment. In this case, the project engineer will require a decrease in the amount of hauling equipment or an increase in the amount of compaction equipment to ensure that each layer is satisfactorily compacted before any material for the succeeding layer is placed.

## **Density Testing**

Determine maximum densities using ATM 207, Method D, or ATM 212. Determine in-place field densities in accordance with ATM 213 and ATM 214. Test adjacent to structures and at random locations throughout the embankment area in each layer sufficiently often to ensure that adequate compaction at all points is being achieved. In coarse material where it is not practical to make density tests, compaction will be obtained as stipulated in the specifications. In such material the grade inspector will have to verify that the compaction meets the requirements of the specifications.

### **18.14.10 Fine Grading**

Finish the surface in conformity with the grades shown in the plans and within the tolerances shown in the specifications. The shoulder lines and slopes should be true and ditches should be finished to a grade that will drain.

The project engineer should keep the contractor advised about cleanup that must be performed as work progresses. In advance of finish grading operations, the project engineer should go over the work in detail and furnish the contractor with a written list of items of work requiring corrective action. The contractor is entitled to this information in advance in order to plan and efficiently carry out the remaining work.

Encourage the contractor to progressively finish sections of the project. This procedure expedites completion of the whole project and facilitates the taking of final measurements and computations.

### **18.14.11 Haul**

Haul is not an item of work that requires inspection to maintain a standard of quality. This does not mean that the inspector or the project engineer can neglect this item. The balance point as indicated on the plans represent the most economical haul for the state computed from theoretical swell or shrinkage factors. Keep accurate records of the field balance points, distribution of borrow, and authorized or unauthorized cross haul during construction so that the actual distribution of the excavation and borrow material is known.

The inspector must carefully check the balancing of excavation quantities as the work proceeds to check the shrinkage or swell factors used in preparing the balance points on the plans. Should the balance point on the plans be a considerable distance from the actual

construction balance point, a change in the shrinkage or swell factor is likely. A substantial change in the shrinkage or swell factors indicates that a change in plans may be necessary to avoid wasting excavated material or an overrun of borrow. Any substantial change in shrinkage or swell factors must be referred to the project engineer, who may consult with the project manager/group chief about the proper action.

### **18.14.12 Drainage**

Water, either directly or as a contributory factor, is often the cause of embankment failures. It is therefore essential that all work involving drainage be carried out carefully and accurately and in such a way that the design features are not impaired in construction, yet the flow lines and other features satisfactorily fit field conditions.

### **Cut Section**

In cut sections, construct ditches to such grade that there will be no impounding of water. This may require ditch grades, which are independent of the embankment grade or a special ditch.

### **Furrow Ditches**

A properly placed furrow ditch need not always parallel the centerline or grade line of the embankment. The ideal would be a ditch following the contour of the land with 0.5 to 1 percent grade, but right-of-way considerations normally prevent this. It is therefore considered good engineering practice to study each case to prevent erosion. Where considerable surface drainage over the top of high cuts appears likely, the construction of ditches above the cut to lead the flow to natural drainage courses shall be far enough away from the edge of the back slope to prevent seepage, which could cause sliding; and ditch grades should not be so steep as to cause erosion.

### **Inlet and Outlet Channels**

Construct inlet and outlet channels to culverts as shown on the plans, of ample size and shape to take the maximum flow. If practical, make them prior to or at the time the culvert trench is being excavated. They must present a neat and workmanlike appearance upon completion and be open and ready for operation upon completion of the adjacent structure. Check adjacent side ditches to be sure they drain toward the culverts or toward the natural drainage outlets.

## **Channel Changes**

Construct channel changes to the line, grade, and dimension shown on the plans. Complete channel changes to direct the flow into structures by the time the structure is completed. Construct channel changes to direct drainage flow away from the embankment section before completion of the embankment to protect the new construction work.

## **Underdrain**

This work consists of constructing underdrains using the type and size of pipe and granular material in accordance with the specifications and in conformity with the lines and grades shown on the plans or otherwise established by the project engineer. The inspector should know and understand the specifications and special detail drawings for the type of underdrain to be constructed.

Underdrains are placed to lower a high water table or to intercept and dispose of water seeping into the embankment from sources outside of the embankment. The location of underdrains is usually determined by soils investigations previous to completion of the plans, but may be changed or added to during grading operations. The project engineer should make any significant changes in design location or the selection of additional locations and document it in writing with the appropriate contractual document.

Place perforated pipe with their perforations down except when their only purpose is to transport water. When their purpose is to carry water only, use a pipe without perforations and place granular material around the pipe. If you install blind drains, omit the pipe, and lower the water table using free draining material.

Rigid inspection is required during construction of all types of underdrains. This ensures that any slides from the sides of the trench are removed to ensure the filtering action of the granular backfill and that the holes in the underdrain pipe are not clogged with foreign material, which would prevent the drain from functioning properly.

If equipment must cross underdrains after installation, the inspector must insist on adequate covering to protect the pipe from crushing and the granular material from contamination.

The inspector should record the accepted quantity and location of all underdrains and should verify that all

required tests and certificates of compliance are in the project record.

## **18.14.13 Minor Drainage Structures**

Minor drainage structures are those of less than 20-foot span, including culverts, sewers, manholes, catch basins, and inlets. Prior to the contractor starting work on a structure, review the plans and designated stationing of structures at their respective sites to ensure that they are properly located. Bring any changes, additions, or deletions to the contractor's attention as early as possible.

Inspect all material prior to incorporating it into the work. The inspector must also ensure that all materials have been approved for use in the work and that all the required certifications have been received.

Before the contractor begins the construction of the structure foundation, the inspector should inspect the soil conditions. The foundation material should be firm and relatively dry for proper support of the structure. Walls of structures should be constructed plumb, unless otherwise indicated on the plans, and the dimensions of the structures must conform to that required by the plans.

Pay careful attention to the backfilling operations to be sure that no damage occurs to the structure, and also to be sure that backfill material is properly compacted. Place and compact material in level layers around the structure.

Carefully adjust any required grate or cover for masonry or structural concrete structures to the line and elevation required and supported as shown in the plans and specifications.

## **Structural Excavation**

If structural excavation is a pay item, the specifications will set the limits of structural excavation, which shall be measured for payment. Documentation of the quantities submitted for payment shall consist of cross sections taken prior to beginning of the excavation, upon completion of the excavation, and at the top of any bedding material that may be required immediately prior to laying the pipe. Review contract specifications for any special methods of measurement.

## **Foundation for Structures**

It is essential that the foundation under a structure provide support as firm and as nearly uniform as

possible under the entire bearing surface. Whenever conditions permit, the bottom of the excavation should be on undisturbed ground for its full length and width. If you can avoid it, do not place culverts partly on filled ground and partly on undisturbed natural ground because of the probability of unequal settlement, which might distort or break the structure. This applies transversely as well as longitudinally and, when you use a side hill location, bench the culvert into the hillside far enough to be entirely on solid ground. If part of the culvert must be on filled ground, place the filled material in thin, thoroughly compacted layers, so it will provide a foundation as comparable to the natural ground as possible.

Avoid the installation of drainage structures or systems in embankments, or constructed on unstable foundation material. This reduces the possibility of providing a foundation subject to settlement, which could cause breakage of the structure, or low spots that do not drain. When you must make such an installation, construct and thoroughly compact the embankment to the elevation indicated on the plans. Then, make the excavation in the compacted fill.

Remove unstable foundation material other than massive deposits of permafrost or muskeg and replace it with satisfactory bedding material to the extent practicable. Place a layer of sand, gravel, or other suitable material on the unstable material until a stable foundation is formed. If placing a pipe culvert in rock excavation, remove the rock at least six inches below the bottom of the pipe and then place a well-compacted cushion of gravel, sand, or other suitable material as a bed for the pipe. When using bell and spigot-type pipe, excavate holes to fit the bells so that the pipe will have uniform bearing throughout its length, rather than resting on the bells.

Consider cambering of a culvert grade line before starting installation of the pipe. Subsidence varies widely depending on the fill height, the depth to a solid stratum, and the compressible character of the foundation site. Do not use camber as a substitute for foundation stabilization. Correct a poor foundation before installing culverts. Base the amount of camber on the foundation soil profile stabilization.

In areas of extensive permafrost, innumerable variables and their unique combinations must be considered in approaching the problem of adequate foundation conditions. In most instances, the plans and specifications will provide construction requirements to be followed. In the event that an

isolated installation in permafrost has been overlooked and no plan or specification procedure is indicated, do the foundation work so it will least disturb the thermal balance of the foundation. To upset the thermal balance will set up a condition of unequal subsidence that would create a maintenance problem for some time. If doubt exists about proper and adequate procedure, consult with the project manager/group chief or regional materials section for recommendations.

In the event of an isolated installation in a muskeg area, it is good to follow the procedure established for foundation treatment of the immediate embankment area. This will more nearly ensure uniform subsidence and continued functional ability of the structure. If the muskeg in the immediate embankment area is being removed to suitable foundation materials, then follow the same procedure at the structure site. On the other hand, if the muskeg material in the immediate embankment area is to be loaded either by the normal fill or a rolling or static surcharge, then treat the foundation material at the structure site in the same manner. In either case, it is best to maintain the maximum feasible camber.

### **Pipe Culvert**

Where practicable, construct pipe culverts before beginning the fill in the adjacent section. A properly placed culvert should have a flowline gradient the same as that of the stream channel in which it is placed and on approximately the same alignment. However, the elevation of the flowline of the culvert should be low enough that water is not impounded above the embankment. In the event that a culvert is to be added during construction, give special attention to inlet and outlet ends with respect to their abilities to withstand the variable forces exerted during times of above-average flow. This is especially true with respect to structures 48" and greater in diameter, which require headwalls, riprap, or end sections to protect the structure.

Since culvert conduit is manufactured off the project site, testing on the project is not normally required. However, do not install and pay for culverts until you have received an approved certification verifying the quality of the pipe. Test the quality and compaction of the backfill and bedding material in accordance with instructions as outlined in the Materials Sampling & Testing Frequency tables in sections 18.8 and 18.9.

Camber in the grade under high fills, or on a foundation that may settle, should be considered in base preparation. Camber is simply a rise at the center of a culvert above a straight line connecting its ends. The objective is to shape and/or elevate the grade to ensure a proper flowline after settlement takes place. This forethought will prevent a sag in the middle of the culvert that might pocket water or reduce capacity because of sedimentation. Generally, you can obtain enough camber by placing the base for the upstream half of the pipe on an almost flat grade and the downstream half on a steeper-than-normal grade. The greater load at center of the embankment, and the corresponding settlement, will result in the desired positive slope after full consolidation. Soils engineering techniques are available to predict the amount of camber required for unusual conditions. It is usually possible to obtain camber equal to a minimum of one-half of 1 percent of the length of the culvert without special fittings.

When installing pipe culverts, the inspector must:

1. Check the location for proper size, length, camber, skew, and flow line elevation.
2. Check the foundation, and if the underlying material is unsuitable, remove, replace, and compact with suitable bedding material.
3. Check for the pipe being laid to the correct line and grade.
4. Check to see that the pipe is placed with the outside seams pointing upgrade and coupling bands and end sections are properly installed. Coupling band bolts should be at the side.
5. The backfill should be brought up equally on both sides of the pipe. See that each successive layer is thoroughly compacted and the required density achieved for each layer.
6. Check the plans for any required strutting or shoring details for large pipes. When shop strutting of the pipe is called for, no additional vertical diameter elongation is required in the field. However, the struts must conform to the plan details.
7. Remember to stake the pipe according to the horizontal distance from the centerline while measuring the length of pipe along the slope distance. Note that on steep hillside slopes there is considerable difference in the two lengths.

8. Note any special requirements relating to the passage of fish. Culverts in streams may require permits from the Alaska Department of Fish and Game, the Alaska Department of Environmental Conservation, and/or the Army Corps of Engineers. Although permits are usually acquired in the design phase, if you have any questions about the need for a permit or about permit stipulations, check with the Environmental Section to determine the need for permits.

When installing the structural plate pipes, the inspector should ensure that the erection plan furnished by the fabricator is followed. For ease in erection, do not tighten bolts until all plates are in place. Check the plate pattern for conformance with the manufacturer's erection diagrams.

The inspector must also check the installation of culvert thaw pipes or wire to ensure that they are installed according to the plans and specifications. After installing the thaw pipe, thoroughly flush it with water.

### **Backfilling**

Settlements in fill adjacent to or over structures is one of the more frequent causes of uneven surfaces. Backfill material should be the best available so that uniform bearing may be provided. Granular material is preferable. In any event, the material should be free from muck, large stones, lumps, and rubbish. To obtain uniform pressure against the pipe or structure, place the backfill material in layers about six inches thick and thoroughly compacted. Add water if necessary to bring the material to the optimum moisture content for maximum consolidation. To avoid displacing or unduly stressing the structure, backfill on both sides simultaneously.

In the case of pipe culverts, there should be a berm of compacted material on each side of the pipe as shown in the plans. The compacted backfill should extend at least eight inches and preferably a distance of two diameters above the top of the pipe. Give special care to tamping material under the haunches of pipes. Excessive compaction under the haunches will raise the pipe above intended grade.

Density tests shall be as required. Material with low density must receive additional compactive effort; if it cannot be compacted, remove it and replace it with material that can be compacted. Deposit the backfill for trenches and other small areas and compact it in thin layers. Use hand tampers or mechanical tampers.

Do not allow the use of backfilling by tractors and bulldozers, special backfilling attachments for tractors and power shovels, or other equipment, or compacting by rollers next to the pipe wall because of the probability of damage to the pipe. Adequately protect pipe culverts and other structures from damage before operating any heavy equipment near or over them.

You can sometimes use water to facilitate the settlement of granular backfills but never use it where conditions are such that liquid or semiliquid pressure may develop within the berm area or where prohibited by the specifications.

#### **18.14.14 Curb and Gutter and Sidewalk**

This work consists of constructing bituminous concrete or Portland cement concrete curbs, curb and gutter, or sidewalks in accordance with the specifications and in conformity with the lines and grades shown on the plans.

The inspector must understand the specifications for the type of curb and gutter or sidewalk to be constructed. The location should be staked and checked well in advance of the work.

Usually, both sidewalks and curb and gutter are constructed on a bed of specified material that has been compacted to specification requirements.

Concrete and bituminous material must meet the requirements of the specifications. All material specified to be tested must meet testing requirements before being incorporated into the work.

Bituminous sidewalks are normally constructed in one layer and compacted with a sidewalk roller where feasible or hand tamped in places inaccessible to the roller. When constructing sidewalks adjacent to curbing, take care that you do not damage or discolor the curb. Wherever possible, the new sidewalk grade should meet existing driveway or walkway grades.

Bituminous curbs are normally constructed with a special curb machine. Portland cement concrete sidewalk or curb and gutter forms should be strongly constructed and braced so that you maintain proper alignment and grade. Before placing Portland cement concrete, moisten the bedding material thoroughly so it will not absorb an excessive amount of moisture from the fresh concrete. Joint spacing, joint material, and reinforcing steel, if required, will be shown on the plans.

Proportioning of the Portland cement concrete mix and the method of finishing and edging are outlined in the specifications. It is the duty of the inspector to see that these requirements are carried out. Usually the contractor has a choice of several methods of curing the concrete. After the method of curing is selected and approved, the requirements for the specific method must be carried out. This may require bridges for pedestrians or vehicles during the construction and curing periods to protect the sidewalk or curb and gutter.

When the material is being placed, the inspector must:

1. Check the plans, specifications, and special provisions to make sure that all construction requirements are clearly understood
2. Check the staking for alignment and grade
3. Check forms for strength and adequacy. Be sure they are braced; fresh concrete exerts unbelievable pressures
4. Check the forms for location, alignment, and grade. After checking with the instrument, tape, etc., be sure to “eyeball” the forms by sighting both ways along them at frequent intervals. This will pick up minor irregularities that cannot be found any other way.
5. Check bedding
6. Check mixing and placing of material
7. Check type and location of joints
8. Check finishing
9. Make sure all required sampling and testing is performed
10. Check curing of Portland cement concrete
11. Record all required measurements and data in the field book

#### **18.14.15 Beam Type Guardrail**

This work consists of the construction of beam type guardrail. The inspector should keep in mind that the guardrail is constantly in the eyes of the public and the finished rail must present a suitable appearance. The inspector should have full knowledge of the specifications and detail drawings, including shop drawings, curved rail elements to fit specified radii. If the inspector is not around during the guardrail

installation, he or she will not know how many posts were cut short due to hitting rocks.

Review the proposed location of the guardrail as staked to ascertain that it is properly placed to prevent the possibility of a vehicle running behind it into a hazard zone. Changes should be made only when authorized by the project engineer.

Using the centerline or pavement edge to align the guardrail posts. Before driving or drilling posts, make sure there are no underground utilities or culverts that may be damaged at post locations. Generally, the holes for the posts are auger dug, although metal posts are punched with a mandrel. After the placing the posts in the holes, backfill and compact them as specified. Posts should be set plumb and spaced at the specified intervals with the tops of the posts set to the design elevation. Check rail elements for proper height and the overlapping of joints with the direction of vehicular traffic.

Materials are manufactured off the site and are normally inspected before arrival on the project. However, the inspector must verify that the required test certification indicating compliance with the specifications are available prior to installation. He or she should further ascertain that the materials have not been damaged subsequent to testing. The accepted lengths and locations of the guardrail sections should be recorded in the project files.

#### **18.14.16 Fences**

Fencing items consist of the furnishing and erection of woven wire, barbed wire, chain link fabric fences, and gates in conformity with the specifications and detail drawings.

Inspectors must familiarize themselves with all specifications and drawings. Staking is the contractor's responsibility. The inspector should review all proposed locations and if changes either in location or type of fence are desirable, should obtain the approval of the project engineer for such changes and furnish the contractor with a revised list.

The inspector should inspect the installation or erection of all items of fencing to ensure that the posts are erected true to line; that the wire, fabric, and hardware is attached to the posts in the proper manner and at the proper elevation with the wire installed on the specified side; and make sure the posts are firmly installed.

The inspector must record the accepted quantity for the types of fences and gates installed. Measurement for payment shall be as stated in the specifications. The inspector must verify that required materials test indicating compliance with specifications is available prior to installation.

#### **18.14.17 Riprap**

When required, place riprap as soon as feasible after the construction of embankments, dikes, or channels. Where possible, finish the embankment, dike, or channel slopes to a smooth line before placing riprap. When stream conditions require that the riprap be placed in conjunction with the construction of embankments of dikes, the inspector should take particular care to ensure the placement of the proper thickness of riprap.

To avoid any delay in the contractor's work due to the time involved in testing the quality of rock for riprap, the project engineer should require the contractor to provide the location of his riprap source well in advance of the date he intends to start placing riprap. The gradation of the riprap, when required, and the method of determining that gradation shall be as called for in the specifications or special provisions.

#### **18.14.18 Contractor Furnished Surveying**

Check the contract for any special provisions modifying the Construction Surveying and Monuments Section 642 of the Standard Specifications for Highway Construction and the Airport Contract for any Special Provisions modifying contractor-furnished surveying.

The surveyor must be a registered Professional Land Surveyor, currently registered in the State of Alaska, and shall follow the Alaska Construction Surveying Requirements (U.S. Customary Units or Metric) in the specifications.

The project engineer or the representative will randomly spot-check the contractor's surveys, staking, and computations. The contractor will provide the project engineer notice prior to performing any work, and will furnish the appropriate data as required, to allow for such random spot-checking. The Department assumes no responsibility for the accuracy of the work.



## 18.15. Surveying and Staking

### 18.15.1 General

Use this section as a reference of acceptable procedures for consultant or contractor forces performing construction surveys. Perform construction surveying to industry standards. An Alaska-registered Professional Land Surveyor shall install the monuments.

This section is not a substitute for a textbook or handbook on surveying. Party chiefs, instrument-men, and other personnel shall be competent surveyors and have the necessary tables, handbooks, and other references.

This section will provide the standard methods of staking used on construction projects. The contractor performs the construction surveys and provides the Project Engineer with the surveying data.

Employ surveying techniques that will provide a minimum of confusion, a maximum of economy, and documentation to substantiate quantities of material. The documentation provides a reproducible audit trail. Establish centerlines, right-of-way monuments, and benchmarks to the required limits of accuracy in the Alaska Construction Surveying Requirements (US Customary Units or Metric). Construction survey personnel assigned to the work shall be familiar with efficient methods of staking.

Construction surveys provide for the setting of construction stakes, establishing lines, slopes and continuous profile-grade for grading work, and centerline and benchmarks for structure work, culvert work, protective and accessory structures, and appurtenances as necessary. These stakes and marks constitute the field control with which the contractor performs the work.

The Project Engineer will provide the contractor sufficient horizontal and vertical control data to enable the contractor to establish the planned lines, grades, shapes, and structures. The preconstruction survey may have established this control. The control data should be checked and if necessary, provide additional baseline points or benchmarks.

On projects, which require considerable staking, the surveyor should begin staking as far in advance of the beginning of construction operations as weather and soil conditions will permit. Maintain staking in advance of the contractor's operations and requirements. Check the message and possible

displacement of stakes that stand over the winter before use. Recheck all benchmarks, temporary benchmarks, and other primary control before use after a winter layover.

The contractor shall assign sufficient qualified personnel to perform the required surveying and staking.

### 18.15.2 Field Notes

Record all field notes in standard bound field notebooks furnished by the Department. They are permanent source documents. Persons with varied professional backgrounds may refer to these notebooks. Notes will be neat, legible, precise, and sufficiently detailed to convey their intent to anyone not familiar with the project.

Erasures of errors in field notes are not acceptable. A line drawn through those portions of notes in error (leaving the original note legible) with corrections noted directly above and initialed where quantity measurements are involved is the rule. Include a note of explanation with initials.

Identify all field notebooks on the outside of the front cover indicating content, project number, station limits and year. Index each book and its contents with page numbers. Place page numbers in the upper right hand corner of each page. Show the date, weather condition, and party personnel at the beginning of each day's notes. As a rule, place field notes for each phase of the work in a separate series of field books. Sometimes, it is feasible to combine minor items into one or more "Miscellaneous" books.

### 18.15.3 Construction Centerline

The first survey work on a project is usually the establishment of the construction centerline. This line conforms to the construction centerline shown on the plans, which may or may not be the existing survey line. Correct any errors found in line and show on the plans with reference to the plan centerline.

The chief of party or his designated representative prepares the alignment book. Conduct a thorough field review before actual staking. The construction centerline is marked by witness stakes driven on the line behind the point of beginning, with the station and plus station facing the zero station of the survey. If the line traverses a traveled way, centerline points are referenced at right angles with the station and plus station and the distance right or left marked on the

side of the stake facing centerline. After reproducing the centerline, reference the control points at the beginning and end of curves, points of intersection, points on tangents at approximately 1,000-foot intervals, and points on long curves where visibility is restricted. It is good practice to reference often enough so that each point will see at least one other reference point ahead and back.

Reference control points per the Alaska Construction Surveying Requirements (US Customary Units or Metric). The surveyor shall select the method. The choice of method may be based on the terrain, the area of the right-of-way to be disturbed by construction operations, and the land use adjacent to the right-of-way. Place reference points at locations where there is the least possibility of being disturbed during the construction period. Consider the utility of the reference points after cutting and filling to final grades. Keep records and sketches of the reference points in the alignment notebooks.

Avoid swing or chain ties at major control points (PC's, PT's, and PI's). Use three point right angle ties where possible, preferably two points to the right and one to the left or vice versa. Random transit cross-ties are acceptable. Three reference points per line are the rule with the angle of interception a minimum of 45 degrees. Refer to Figure 18.15.1 for Sample Construction Transit Notes.

The third order survey shall have a  $1/5000$  horizontal closure. Angle closure shall be  $30'' \times \sqrt{N}$  seconds where N equals the number of angles in the traverse. It is essential that the transit be "double centered" at the beginning of use, adjusted if required, and checked often enough to be sure it is in adjustment.

Promptly report errors of closure, in either angle or distance, to the Project Engineer for proper disposition.

#### **18.15.4 Bench Levels**

A complete, tight and dependable set of bench levels is one of the most important items of the construction survey. A large portion of the pay quantities relies on elevations as the basis of measurement. A loose line of bench levels is often the basis of disagreement and claims.

The equipment used for this work shall be in good repair and adjustment. Check levels by the two-peg

method and adjust if necessary. Check each rod used for extended length and condition.

Before any staking involving elevations, verify the benchmarks shown on the plans for location and elevation. At this time, reestablish any benchmark that is disturbed by construction. Do the centerline profile at this time, if required.

In the case of an error in vertical control, run sufficient centerline profile to pinpoint the extent of erroneous elevations. Check the plans and design data for the effect the error has on the design quantities. Bring serious discrepancies to the attention of the Project Engineer and the Project Manager/Group Chief. Run a centerline profile to check design profile and quantities for "O" lines and any other areas where ground elevations may be suspect.

Consult the Project Engineer with respect to placement of benchmarks in areas of permafrost, muskeg, peat, or other unstable soils peculiar to the locality involved. Do not set benchmarks on utility poles. Utility poles are unstable and the spike is a safety hazard for maintenance personnel. Refer to Figure 18.15.2, Sample Level Notes.

Follow the procedures for checking and establishing benchmarks:

1. During the reading process, plumb the rod, wave the rod, and record readings to the nearest 0.01-foot.
2. Balance the backsight and foresight distances and elevations within any level loop.
3. Do not use side shots on benchmarks. Use the turn through method.
4. Establish benchmarks at intervals and locations consistent with good engineering practice and not more than 1,000 feet.
5. The allowable vertical error for disclosure in feet is  $0.05 \times \sqrt{M}$  where M is equal to the length of the level circuit in miles.

Correct errors in benchmark elevations in a manner that will not affect the elevations of succeeding benchmarks. If a minor error will change the elevation of succeeding benchmarks, set up an elevation equation at the point where the error is noted. You may need to make a minor adjustment in grade in this event. Report a major error to the Project Engineer for resolution, if it

will affect the elevation of succeeding benchmarks.

### **18.15.5 Clearing and Grubbing Stakes**

This portion of the work is generally among the earliest operations by the contractor.

The specifications provide for measurement by one of the following methods:

1. Area basis—The clearing and grubbing is paid by the number of acres and fractions thereof acceptably cleared and grubbed within the staked limits. If areas not shown on the plans or not staked for clearing and grubbing, do not measure for payment. The limits of the areas to be cleared and grubbed shall be staked, so as to exclude those areas covered by existing roadway, lakes, ponds, existing stream beds and other areas not covered by trees or brush. Check the specifications for any special conditions pertaining to this method of payment.
2. Lump sum—In the event that measurements and payment for the work is by lump sum, stake and keep notes the same as for the area basis. No calculation of area is required; therefore no measurement of the area is needed.
3. Individual Unit Basis (Selective Tree Removal)—The Project Engineer will designate trees that are outside the normal clearing and grubbing limits. Refer to Figure 18.15.3, Sample Clearing and Grubbing Notes.

Stake the clearing limits per the plans. Avoid sharp breaks in the width of the clearing line and adjust stakes to overcome this. On road projects, give special attention to clearing lines on the insides of curves and at intersections to provide adequate sight distance when contract quantities and right-of-way limits permit this. The contractor may flag approximate culvert locations with the clearing and grubbing for any special cleanup for his culvert crews. Measure distances to the nearest foot and place standard lath to designate the intended limits. The use of surveyor's tape, cloth or other assorted miscellaneous items tied to brush or trees is not proper staking practice. Intervals for placing lath is dependent on terrain and denseness of the foliage, but generally, lath spacing of 100 feet is adequate. In areas of heavy timber, clearing stakes should be so set as to avoid leaving trees on the clearing line. Record in the field notes revisions of originally staked distances, which are required as the

work progresses. Refer to Figure 18.15.3, Sample Clearing and Grubbing Notes.

### **18.15.6 Cross Sections**

Perform cross sections and slope staking after clearing and grubbing.

The staking and measurement of earthwork is the source of more disputes than any other phase of the work. Performing cross sections and setting of slope stakes must be done with competent, experienced personnel properly equipped and instructed. Careful planning of the work is essential. Cross sections shall be taken wide enough to include all potentially disturbed areas.

Before cross sectioning and slope staking, the party chief prepares the slope stake books. Do the grade computations with a computer and make the resulting information available in hard copy. Make computations for all stations to be slope staked, in accordance with the plans and the Alaska Construction Surveying Requirements (US Customary Units or Metric).

Show in the slope stake book the adjusted elevation of the centerline, the distances from the centerline to each shoulder, and the adjusted elevations of each shoulder. Performing grade computations with care saves time during slope staking.

Perform cross sectioning and slope staking simultaneously after clearing and grubbing. Sections will be taken as often as necessary, but at least every station on tangent and every fifty feet on curves, and every station on tangent and every fifty feet on curves, and at all breaks in topography. Take additional cross sections at odd stations where structure exceptions begin or end. Extend the cross sections beyond the construction limits a minimum of twenty-five feet. Extend the sections further in areas of overbreak or slides.

Do cross sectioning with an engineer's level or transit in mountainous terrain. The engineer's level is the preferred method. When necessary, permit hand level turns, up or down from the instrument. Take sections on a perpendicular to the centerline on tangents, and on radial lines on curves. Use a transit or right angle prism to perform perpendiculars. Record H.I.s to the nearest 0.01 foot. Record cross section readings to the nearest 0.1-foot. Hold the tape horizontally with a minimum of sag and record readings to the nearest 0.1-foot from base or centerline.

Take final cross sections after the construction is complete. Plot all final cross sections. The Project Engineer shall make spot checks in areas where final cross sections are not required to assure that the work is in conformance with the slope stakes. Check areas of embankment in the same manner. Perform the work with one man working from the slope stakes with an engineer's rule, hand level, and cloth tape. Record notes in the inspector's diary. Document all pay quantities in this manner.

### **18.15.7 Material Sites**

If the specifications call for measuring borrow by the ton or megagram, cross sectioning of the material sites is not required.

Measure borrow in the same manner as roadway excavation. Extend the regular cross sections to include a borrow pit adjacent to the construction. Compute the excavation and borrow quantities separately.

If the borrow pit is located away from the construction site, follow a systematic procedure of laying out the pit for cross sectioning. Determine and stake the area that the borrow is coming from. Establish base lines outside the anticipated work area to assure there is a reference for starting each series of cross sections. Extend the cross sections out to the base lines.

Locate and reference the base lines for use during final cross sections. If feasible, use the centerline datum for borrows pits. If this is not practical, set two benchmarks in reference to an assumed datum. Sketch the layout of the borrow pit on the first page of the borrow pit notes.

It may be necessary to stake the limit and the depth of excavation due to stipulations in the borrow permit. In most cases, remove the borrow to an elevation best suited for drainage and appearance.

Without exception, each subsequent cross-section will close the proceeding section at the outer limit of the excavation. When practical, tie material sites to the centerline of the project.

After borrow operations and trimming, do final cross sections at the exact location of the original cross sections and extend them to the base lines. Record any additional information about zero points of cut at this time. Refer to Figure 18.15.5, Sample Field Notes for Borrow pit layout. See Figure 18.15.6 for Sample Borrow Pit Cross Section Notes.

### **18.15.8 Slope Stakes**

Slope stakes may be set in conjunction with the clearing and grubbing stakes. Set slope stakes at the same intervals as cross sections. See Section 18.15.6 for intervals of cross sections and the Alaska Construction Surveying Requirements (US Customary Units or Metric) for additional information. Set the stakes at points where the cut or fill slopes intersect the surface of the natural ground. Make visual inspections of the stake, with reference to previous stakes, taking into consideration any change in slope and grade to avoid abrupt, unsightly breaks in slopes.

There are several satisfactory methods of showing information on slope stakes. The intent is to provide the workers with the minimum information of:

1. Where to begin a cut or fill.
2. Which slope to follow.
3. The depth or height of the cut or fill.

Show additional information, but not to the point of confusion.

Do not use hand levels for setting slope stakes, except two turns up or down from the instrument to the catch point. Clearly note hand level TPs in the field book.

There are several different methods to set slope stakes, dependent on the terrain. Use one of the three primary methods to set slope stakes.

1. Use a level instrument, level rod, and cloth tape. This preferred method is best suited to relatively flat or rolling terrain where it is possible to run the profile, cross section, and set the slope stakes with only a few additional instrument setups.
2. Use a level, transit, level rod, cloth tape or chain. Employ this method in rough or mountainous areas.
3. Use an Electronic Distance Measuring instrument and a level rod. Employ this in all terrain.

Follow the established and accepted surveying techniques when leveling, chaining, and rod reading as outlined in Section 18.15.6. Cross Sections. Grade on slope stakes shall be within 0.1 foot. See Figures 18.15.7-18.15.11 for slope stake procedures and sample notes.

### **18.15.9 Slope Stake Reference**

Set a reference for each slope stake section on one side or both. The reference shall be set a minimum of ten feet and a maximum of twenty feet beyond the slope stake. The main purpose of the reference is to convey the slope stake information in the event the slope stake is disturbed or destroyed. Provide the amount of information on the reference stake to allow for its replacement. A hub should be driven flush with the ground at the reference stake and reference all elevations to this hub. It is good practice to run an independent level circuit over the reference hubs to check for errors. Perform this check in areas of heavy grading. Figure 18.15.7 shows methods that convey the minimum required information.

### **18.15.10 Grade Stakes**

The contractor is required to bring the roadway slopes up or down per the slope stakes. As grade is approached, additional stakes must be set so that the surface is brought to the proper elevation and the slopes are true. Use grade stakes for rough grading of the prism to the top of embankment. Use red tops and blue tops for fine grading of the prism.

Usually when the depth of the subbase is variable, provide grade stakes indicating the shoulder line and elevation of the rough grading (bottom of selected material). Provide grade stakes indicating separation of two types of selected material.

These stakes consist of standard length lath. Set the stakes to rough line and grade. The grade inspector must check these stakes at random for accuracy.

### **18.15.11 Blue and Red Tops**

After completing the embankment, set red tops at the top of each subbase layer. Set blue tops at the top of base course. Set blue and red tops at centerline and shoulders. Frequency of red and blue tops is the same as cross sections. Place blue and red tops at the required locations. Drive the stake so that the top of the stake is at the elevation of the finished grade. A good grade foreman and grader operator should be capable of finishing the grade to  $\pm 0.1$  foot before calling for blue tops. Call the grader operator back to finish grading if the grade varies more than  $\pm 0.2$  foot.

Provide staking in areas of critical drainage to assure adequate slope. Do not allow ponding of water along embankments, in special ditches, drainage ditches, and channel changes.

Set red tops accurately to line, solidly driven. Record H.I.s and grade rods to the nearest 0.01-foot. Set the grade elevation to plus or minus 0.05 foot.

Set blue tops accurately to line, solidly driven. Record H.I.s and grade rods to the nearest 0.01-foot. Set the grade elevation to plus or minus 0.02 foot. See Figure 18.15.12, Sample Blue Top Notes.

### **18.15.12 Culverts**

Stake culverts early to determine the amount of culvert pipe. A good time to do culvert staking is during slope staking.

Drive hubs on the extended centerline of the culvert at a convenient distance from the ends to be out of the way of the excavation, but close enough for easy reference. Show the information necessary to construct the culvert on the guard stake. Show in the culvert book the minimum information to stake a culvert:

1. Station.
2. Size, length, and type of pipe (Such as 24" x 60' CMP).
3. The amount of cut or fill from the top of the hub to the flow line at the end of the pipe.
4. The horizontal distance from the hub to the end of the pipe.
5. The gradient of the pipe.
6. The amount of camber (if required).

It may be desirable to set additional stakes offset along the centerline of the pipe showing the amount of cut or fill to the flow line at the location of each stake. When the culverts are in rough terrain or of considerable length, offset stakes are desirable. Stake headwalls for culverts on each side of the culvert on line with the face of the headwall.

A single cross section along the flow line of the structure is adequate. Occasionally, running transverse sections provide better excavation information. Indicate staking data, cross sections, and other pertinent data in the culvert book. Normally, culvert pipe is paid for by the linear foot. Measure the culvert pipe installation according to the specifications. The Project Engineer must approve culvert relocations and changes in length of culvert. See Figure 18.15.13 for Sample Culvert Installation.

### **18.15.13 Miscellaneous Drainage Facilities**

The plans show the location, type, size, length, and flow line elevations for miscellaneous drainage facilities. Before staking, field check the plan information to assure adequate drainage characteristics. The Project Engineer must approve minor changes in locations and grades to meet existing field conditions.

#### **Ditches and channels**

Generally, this work is unclassified excavation. Slope stake and cross section per Sections 18.15.6 – 18.15.9. In the absence of no typical section on the plans, provide sufficient width and depth to accommodate existing field conditions.

#### **Underdrains and sewer**

Use a similar procedure to establish the flow line for underdrains and sewers as for culverts. Provide adequate outlets and establish flow lines that connect to existing drains.

Set line and grade stakes for underdrains and sewers at intervals not greater than twenty five feet and offset stakes a distance that will insure their permanency during construction operations.

#### **Manholes, catch basins and inlets**

Construct manholes, catch basins, and inlets adjacent to any curb and gutter. Take extreme care in staking so they will fit properly into the design of the facility. Adjust castings after the curb and gutter are set.

The straddle hub method fixes the position of manholes, catch basins, and inlets. Set a grade hub stake offset a distance to protect it from disturbance. Indicate clearly the portion of the structure on the guard stakes at the straddle hubs. The guard stake at the grade hub shall have the distance to the top of the structure, the distance to the flow line, and to what point on the structure these distances refer.

It may be desirable to have separate field books for each phase of the work on projects where there are a number of manholes, catch basins, and inlets. Use separate pages in the field books for each structure. Show the location, type, and size of each structure with a staking diagram showing all distances and elevations in the field notes. See Figure 18.15.14 for Sample Methods of Staking Manholes, Catch Basins, and Inlets.

#### **Dikes**

Stake dikes to the alignment, grade, and slopes shown on the plans or as necessitated by field conditions. Slope stake to the shoulder of the dike with distances referenced to centerline of the dike. Use the same method of staking as for embankments.

Set up a separate field book for all dikes. Show a sketch tying to the centerline of the main facility and position in relation to the main facility.

#### **Riprap and slope protection**

Stake all riprap and slope protection after constructing the fill, channel change, or dike. The slope must be in substantial conformance before placement of the riprap or slope protection. Slope stake all bank protection when feasible. The surveyor may use special methods in staking unusual bank conditions. Set up a separate book for riprap and slope protection.

### **18.15.14 Miscellaneous Construction Staking**

The surveyor shall provide sufficient stakes for the adequate control of all structures and incidental construction. The surveyor shall take into consideration the contractor's proposed methods of constructing the project to prevent the destruction of the controls by the contractor's operations.

#### **Guardrail and guide posts**

The plans show the guardrail and guide post locations with special instructions on standard detail sheets. It is difficult for a designer to accurately locate these facilities. Field check these locations before staking and making adjustments in lengths and location.

#### **Signs**

Stake signs at the location shown on the plans. A lath or hub indicating the location and identification of the sign is usually sufficient.

#### **Right-of-way monuments**

A professional land surveyor registered in the State of Alaska must supervise the staking and setting of right-of-way monuments. Set the monuments using a third order survey. Stake right-of-way monuments at the locations indicated on the plans. Do not set monuments in loose fill slopes, slides, streams or other locations where it is apparent that their position is incorrect.

Stake right-of-way monuments using the straddle hub method. Set right-of-way monuments using a transit and chain or Electronic Distance Measuring device. Position the monument to the nearest 0.1 foot. Set up a separate book for right-of-way monuments. Sketch each monument showing ties to centerline and position in relation to the facility.

### **Curb and gutter sidewalks**

Set the stakes for curb and gutter forms with an instrument for alignment and grade as shown on the plans. They will be set at full and half stations on tangents, twenty-five to fifty foot intervals on horizontal curves, and not greater than twenty-five foot intervals on vertical curves. Curb returns and sidewalk radii require special attention when staking.

Use the offset line of tacked hubs for accurate alignment and grade correct to the nearest 0.01 foot. Visually check the final position of the forms by sighting along the form from either direction. Thoroughly check the forms for line and grade before concrete placement. In the field book, show a staking diagram in relation to centerline; dates and locations of concrete pours; and measurement of pay quantities. See Figure 18.15.15 for a method of staking curb returns.

### **18.15.15 Major Structures**

The first step in any structure layout is to check all dimensions and elevations shown on the plans.

Stake and reference only those centerlines and layout lines used as dimensional references on the plans. These lines include:

1. Centerline or layout line of bridge.
2. Centerline of bent, pier, or abutment.
3. Layout lines for wingwalls or retaining walls.

Do not stake specific structure element locations such as piles, edge of footing, end of wall, or other details that are located from staked lines and plan dimensions. The inspector shall check these locations after the contractor establishes them.

Sketch a layout showing the location of all control points. Stake control lines for use by carpenters, excavation foreman, and others.

Do layout work carefully and accurately to convey information clearly and without confusion. Check all work from computation through staking to eliminate

errors. Compute and stake elevations and alignment to the nearest 0.01 foot. Specific field methods shall be suited to the needs of the individual survey. Use third order survey accuracy for all bridge work. See Figure 18.15.16 for an example of field notes for such a structure layout. The Project Engineer shall check the overall length of the bridge and all computed distances.

Control lines shall be referenced so points in or near work areas are reset with minimum effort. It is normal to lose a certain number of control points during construction. Reference each pier centerline with at least three points on each side of the bridge. Set a working point on each side of the bridge fifty feet from the bridge centerline. Set one reference on each side of the bridge at least 150 feet or whatever distance is necessary to clear all construction activity. Set up a coordinate system to check the original layout and to facilitate resetting points removed or displaced by construction activity. By knowing the coordinates of all control points, it is easy to compute distance and bearing from any point to any other.

The Project Engineer shall check all detail layout work done by the contractor. Before any forms are set, check batter boards for line and grade.

Set a minimum of two good benchmarks for each bridge site. Locate one near the substructure work, as it is practical, and the other a distance from the bridge where it is safe from construction operations. The primary use of the second benchmark is to reestablish elevation control in the event that the working benchmark near the bridge is lost or disturbed. Establish a benchmark on an abutment or pier cap as soon as construction allows for setting and checking all superstructure grades.

### **18.15.16 Monuments Established by Others**

A very important activity of construction surveying is the location, marking, and protection of monuments inside or outside the construction limits.

The Project Engineer shall obtain from the region copies of the right-of-way plats for the project before beginning survey work on the project. Make an active search for all monuments. A Professional Land Surveyor registered in Alaska must replace any public survey monuments.

### **Public land monuments**

Protect existing land monuments within the paved portion of the project with monument cases. Place monuments located under graveled surfaces, unpaved shoulders, fill slopes, back slopes, or ditches six inches below the surface.

Preserve all U.S.G.S., U.S.C., G.S., B.L.M., and other agency benchmarks, triangulation points, land monuments, and other permanent markers found on the project. Use third order survey accuracy in the replacement of all public land monuments.

### **Private survey monuments**

Use a Professional Land Surveyor registered in Alaska to set all survey monuments. Conduct a search for all property marks shown on the survey plats or subdivision plats. If corners shown on the plats can not be located, contact the property owner, if possible. The Memorandum of Agreement describes the disposition of survey monuments within the right-of-way. The Department is very concerned when a property owner claims that his property marker was destroyed during construction and was not replaced. Show a dated and signed entry in the monument field book stating what action was taken for each marker on the project. Place emphasis on describing attempts to locate markers that could not be found.

It is policy of the Department to reference and reset in its original location any private survey monument or marker, which may be disturbed by construction.

When the original monument or marker cannot be reset, establish one or more permanent reference markers, plainly marked as a witness corner as near as practicable to the original mark. Submit the original field notes to the regional Right-of-Way section.

### **18.15.17 Party Chief's Diary**

The survey party chief on the project shall keep a factual diary of all work performed by the survey crew on the project on a daily basis. The diary shall contain:

1. Date.
2. Weather.
3. Crew.
4. Type and location of work being performed.
5. Work accomplished.
6. Orders from the Project Engineer.

### 7. Signature.

This record is extremely important in case of claims by the contractor, or claims from abutting property owners that their monuments have been destroyed and were never reset.

### **18.15.18 Contractor Furnish Surveying**

Check the contract for any special provisions modifying the Construction Surveying and Monuments Section 642 of the Standard Specifications for Highway Construction and the Airport Contract for any Special Provisions modifying Contractor-furnished surveying.

The surveyor shall be a registered Professional Land Surveyor, currently registered in the State of Alaska and shall follow the Alaska Construction Surveying Requirements (US Customary Units or Metric) in the specifications.

The Project Engineer or his representative shall randomly spot-check the Contractor's surveys, staking, and computations. The contractor will provide the Project Engineer notice prior to performing any work, and will furnish the appropriate data as required, to allow for such random spot-checking. The Department assumes no responsibility for the accuracy of the work.



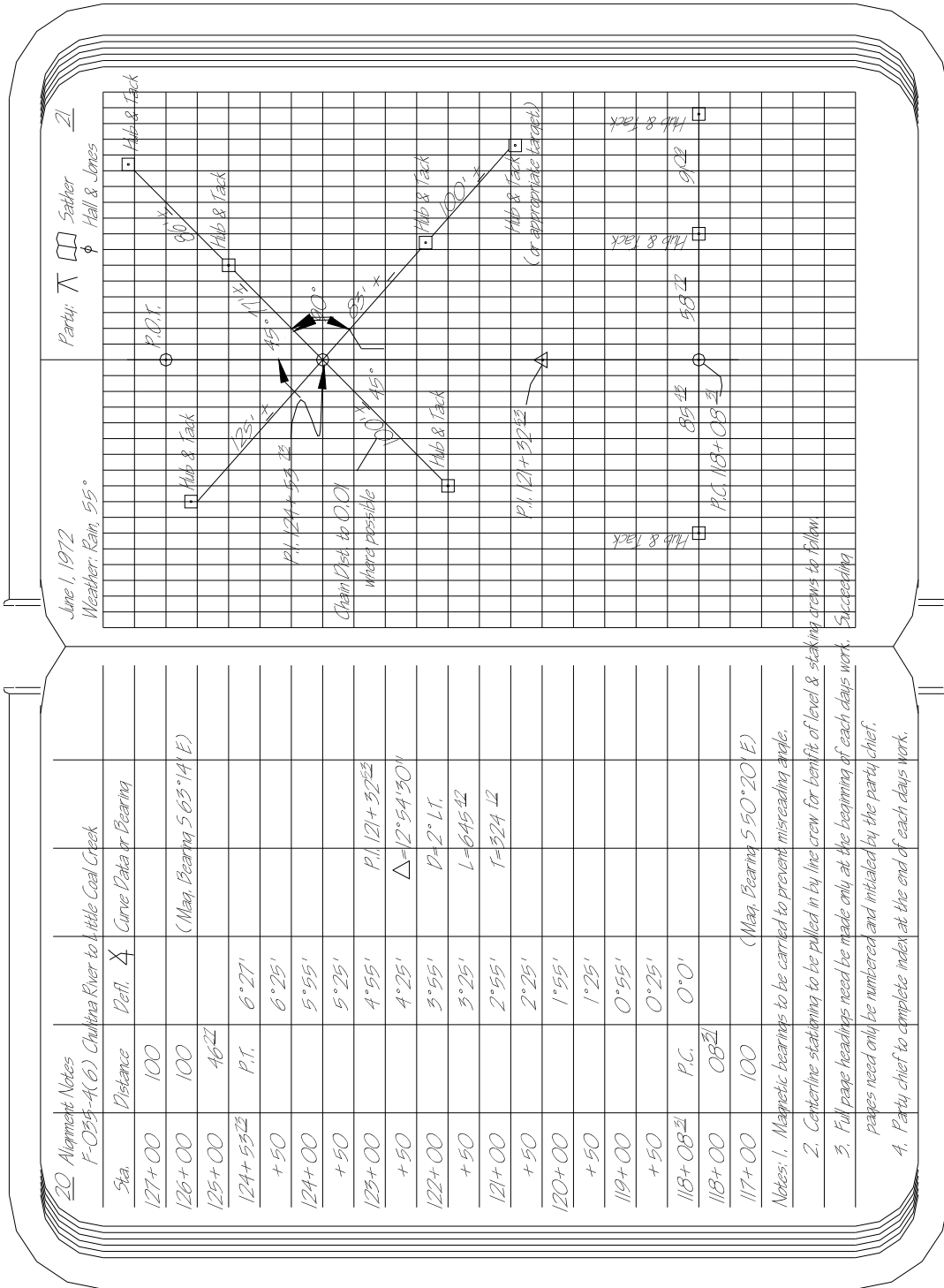


Figure 18.15.1  
Sample Construction Transit Notes

Sta.	B.S. + H.I.	F.S. - Elev.	June 1, 1992 Weather: Fair 55°-75° 5-10 MPH Wind	Party:	Sabbet Helms	39
Benchmark & Profile Levels F-085-A(6) Chulitna River to Little Coal Cr.						
T.B.M. #10	122	542			Comp. E.C.S. - P.C. CK. J.B. - O.E.	
108+00		6-4				
109+00		7-6				
110+00		9-1				
T.P.	382	5342				
111+00		7-6				
112+00		8-4				
T.P.	72	5352				
113+00		3-6				
T.B.M. #11		32				
(Σ B.S. 5 23 82) (Σ F.S. 5 23 64)						
114+00	42	5342				
114+00		5-6				
Note: 1. Σ B.S.'s & F.S.'s need not be shown but personnel should recognize need for approximate balancing.						
2. Full page headings need be made only at the beginning of each days work.						
pages need only be numbered and initialed by the party chief.						
3. Party chief to complete index at the end of each days work.						
			Succeeding			

Figure 18.15.2  
Sample Level Notes

Sta.	Lt. & Rb.	Total Width	Avg. Width	Dist.	Weather: Temp, Wind	Party:	Sather
27	Clearing and Grubbing F-035-A(6) Chulitna River to Little Coal Cr.						
	Lt. & Rb.	Total Width	Avg. Width	Dist.	August 6, 1992 Weather: Fair, 50°-60° 5-10 MPH Wind		Ch. Jones Ch. Helms
+50	26-0 26	40	41	50	2050		
114+00	27-3 24	42	43	50	2150	Completed By: (Inspector) Date:	
+50	29-5 24	44	46	50	2300	Comp. B.C.S. - P.C. C.K. J.B. - O.E.	
115+00	32-8 24	48	50	50	2500		
+50	33-11 22	52	51	50	2550		
112+00	35-15 20	50	50	50	2500		
+50	34-16 16	32	48	50	2400		
111+00	32-19 16	46	45	50	2250		
+50	30-0 31-21 16	44	44	50	2200		
110+00	30-0 30-24 14	44	Total Page No. = 20,900				
Notes: 1. Total each page.							
2. Full page headings need be made only at the beginning of each days work. pages need only be numbered and initialed by the party chief.							
3. Party chief to complete index at the end of each days work.							

Figure 18.15.3  
Sample Clearing and Grubbing Notes



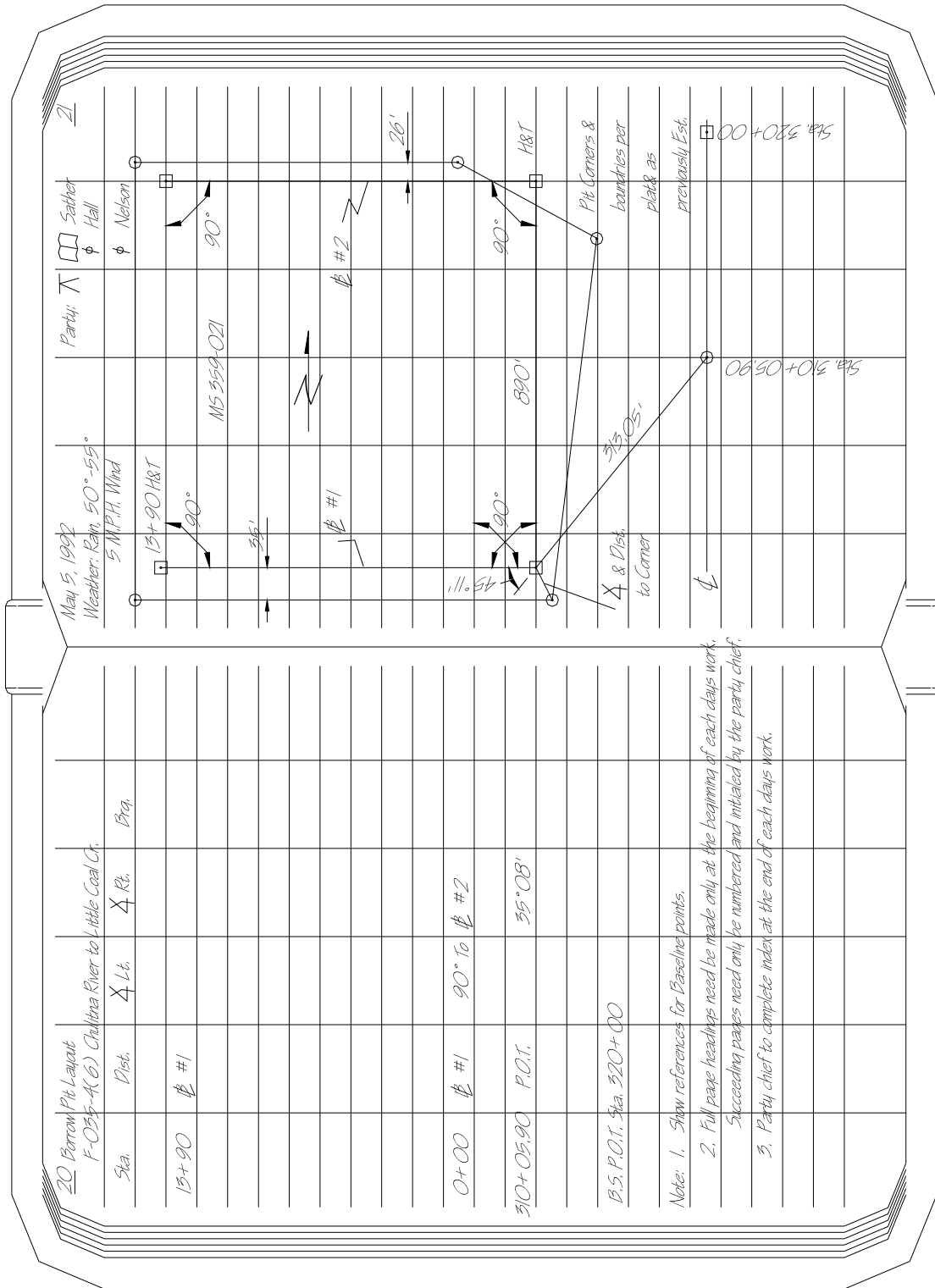
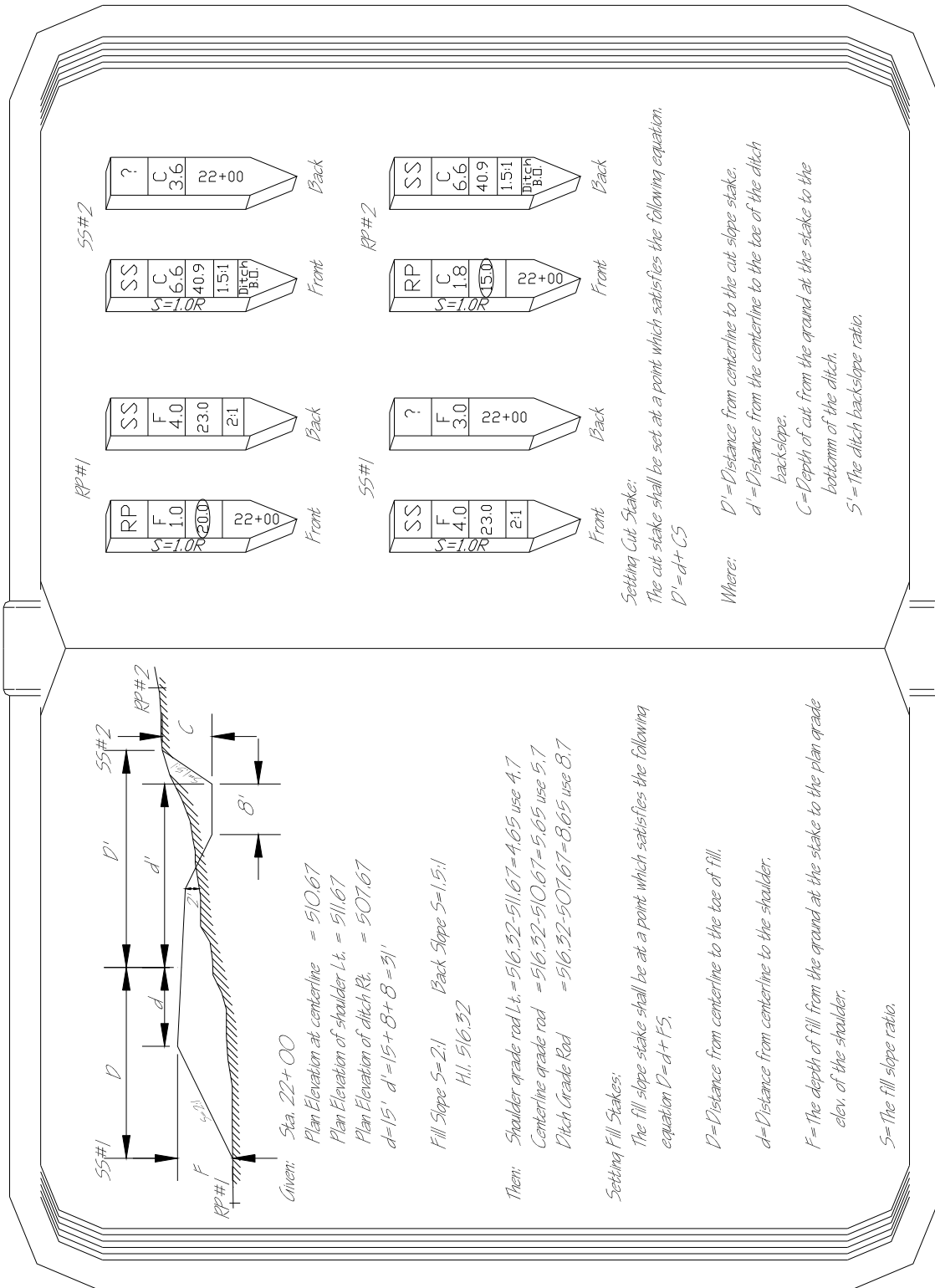
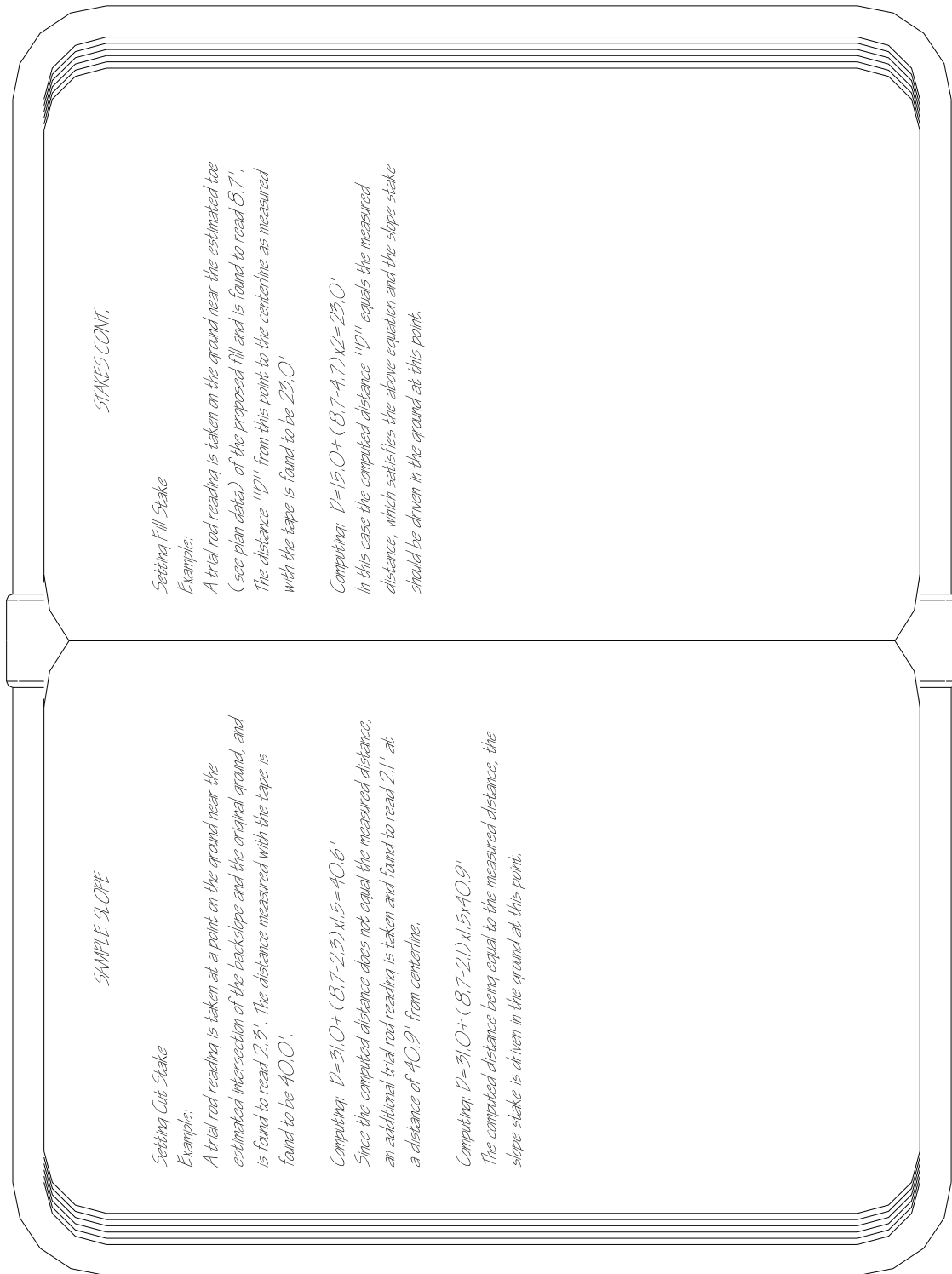


Figure 18.15.5  
Sample Field Notes

Sta.	B.S. +	I.I.	F.S. -	Elev.	June 7, 1992	Weather: Partly Cloudy Calm,	50°-60°	Party:	Seabrooks Guest	29
					Nail in base of 10" Birch 50' Lt. Sta. 0+00					
					Base Line Nol ~ Elev. 528.51					
1+50					00 Ex. 1+52					
					H&T BL #1					
					1 <sup>3</sup> / <sub>00</sub> 1 <sup>3</sup> / <sub>15</sub>					
					0 <sup>2</sup> / <sub>28</sub> 0 <sup>2</sup> / <sub>31</sub>					
					1 <sup>3</sup> / <sub>42</sub> 3 <sup>0</sup> / <sub>51</sub>					
					0 <sup>2</sup> / <sub>28</sub> 0 <sup>2</sup> / <sub>31</sub>					
					1 <sup>3</sup> / <sub>42</sub> 3 <sup>0</sup> / <sub>51</sub>					
					0 <sup>2</sup> / <sub>28</sub> 0 <sup>2</sup> / <sub>31</sub>					
					1 <sup>3</sup> / <sub>42</sub> 3 <sup>0</sup> / <sub>51</sub>					
					0 <sup>2</sup> / <sub>28</sub> 0 <sup>2</sup> / <sub>31</sub>					
					1 <sup>3</sup> / <sub>42</sub> 3 <sup>0</sup> / <sub>51</sub>					
					0 <sup>2</sup> / <sub>28</sub> 0 <sup>2</sup> / <sub>31</sub>					
					1 <sup>3</sup> / <sub>42</sub> 3 <sup>0</sup> / <sub>51</sub>					
					0 <sup>2</sup> / <sub>28</sub> 0 <sup>2</sup> / <sub>31</sub>					
					1 <sup>3</sup> / <sub>42</sub> 3 <sup>0</sup> / <sub>51</sub>					
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**Figure 18.15.7**  
**Sample Slope Stakes (Page 1 of 2)**



**Figure 18.15.8**  
**Sample Slope Stakes (Page 2 of 2)**



CHECKED BY: F. Dangerfield O.E.		SAMPLE SLOPE		STAKE BOOK		COMPUTED BY: E. Satcher P.C.		DATE: June 7, 1992	
STA.	ELEV/GRADE	LEFT	C	RIGHT	AREAS	CUBIC YDS.	REMARKS	EXC.	EMB.
B.M. #8	$\frac{495.00}{+10.00}$ $\frac{505.00}{+10.00}$ $\frac{515.00}{+10.00}$ $\frac{525.00}{+10.00}$	906 907 908		545 546			May 7, 1992 Rain 65°		
H.I. =		91 81 82 72 71 63 50 45	71 63 50 45	32 20 02			TK Satchers φ Hall φ Jones		
22+00	$\frac{510.00}{+10.00}$ $\frac{520.00}{+10.00}$ $\frac{530.00}{+10.00}$ $\frac{540.00}{+10.00}$ $\frac{550.00}{+10.00}$ $\frac{560.00}{+10.00}$ $\frac{570.00}{+10.00}$ $\frac{580.00}{+10.00}$ $\frac{590.00}{+10.00}$ $\frac{600.00}{+10.00}$	91 81 82 72 71 63 50 45 35 25 15 5 0	71 63 50 45 35 25 15 5 0	32 20 02 40 55 35 25 15 5 0	(Original Ground Cross Section)				
	Ditch Right $\frac{507.00}{+10.00}$ $\frac{510.00}{+10.00}$ $\frac{513.00}{+10.00}$ $\frac{516.00}{+10.00}$ $\frac{519.00}{+10.00}$ $\frac{522.00}{+10.00}$ $\frac{525.00}{+10.00}$ $\frac{528.00}{+10.00}$ $\frac{531.00}{+10.00}$ $\frac{534.00}{+10.00}$ $\frac{537.00}{+10.00}$ $\frac{540.00}{+10.00}$	10 40 20 25 21		66 18 40 15 1/2:1 Ditch					
22+79	510.33	50 57 25 15	71 63 50 45	62 74 60					
	Notes:	<p>(Cross Section Only)</p> <p>1. Full page headings need be made only at the beginning of each days work. Succeeding pages need only be numbered and initialed by the party chief.</p> <p>2. Party chief to complete index at the end of each days work.</p> <p>3. Normally one original cross section per page, leaving room for after-stripping, undercuts, etc. that may be needed later.</p>							

Figure 18.15.9  
Sample Slope Stake Book

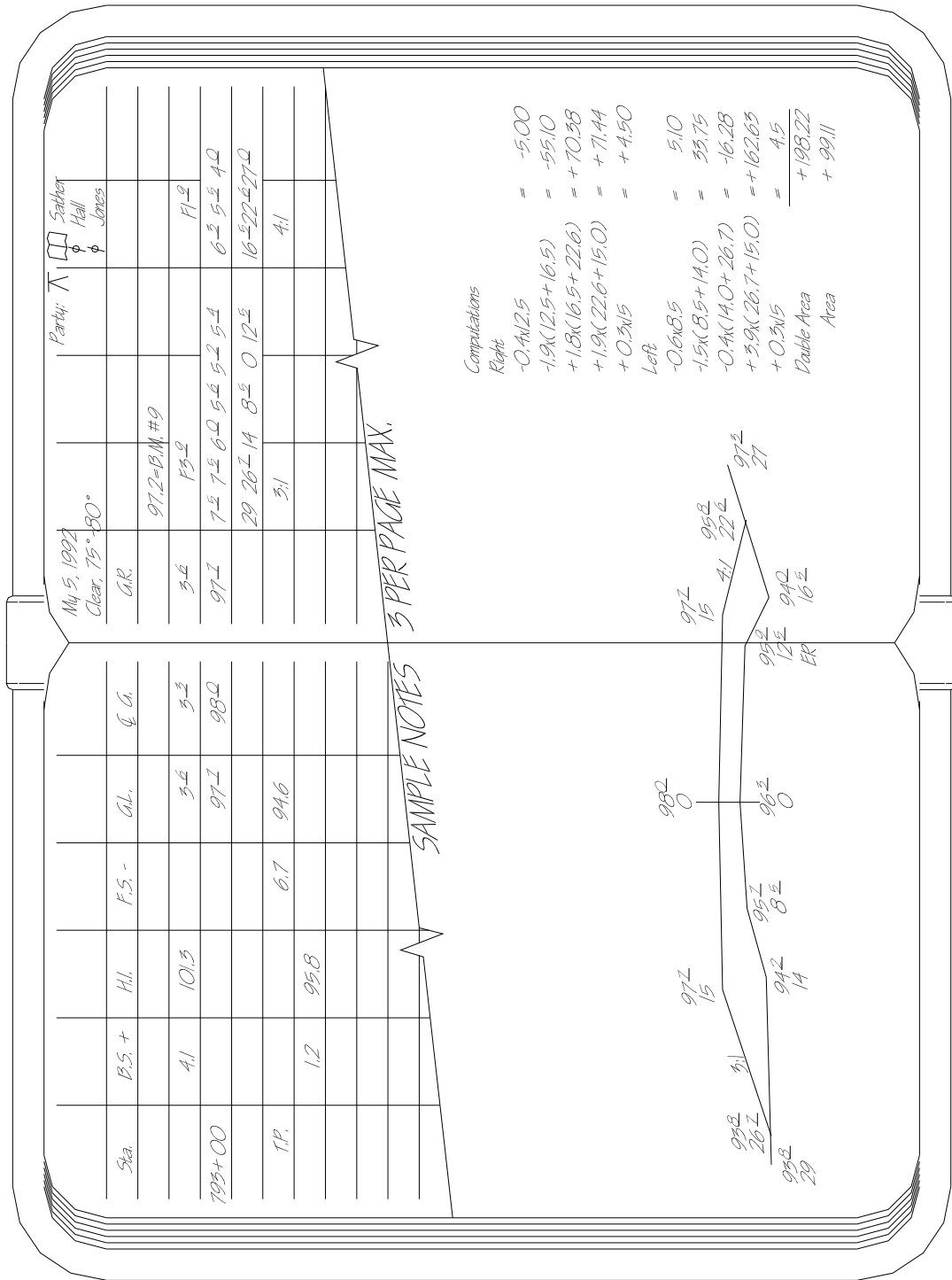


Figure 18.15.10  
Sample Notes

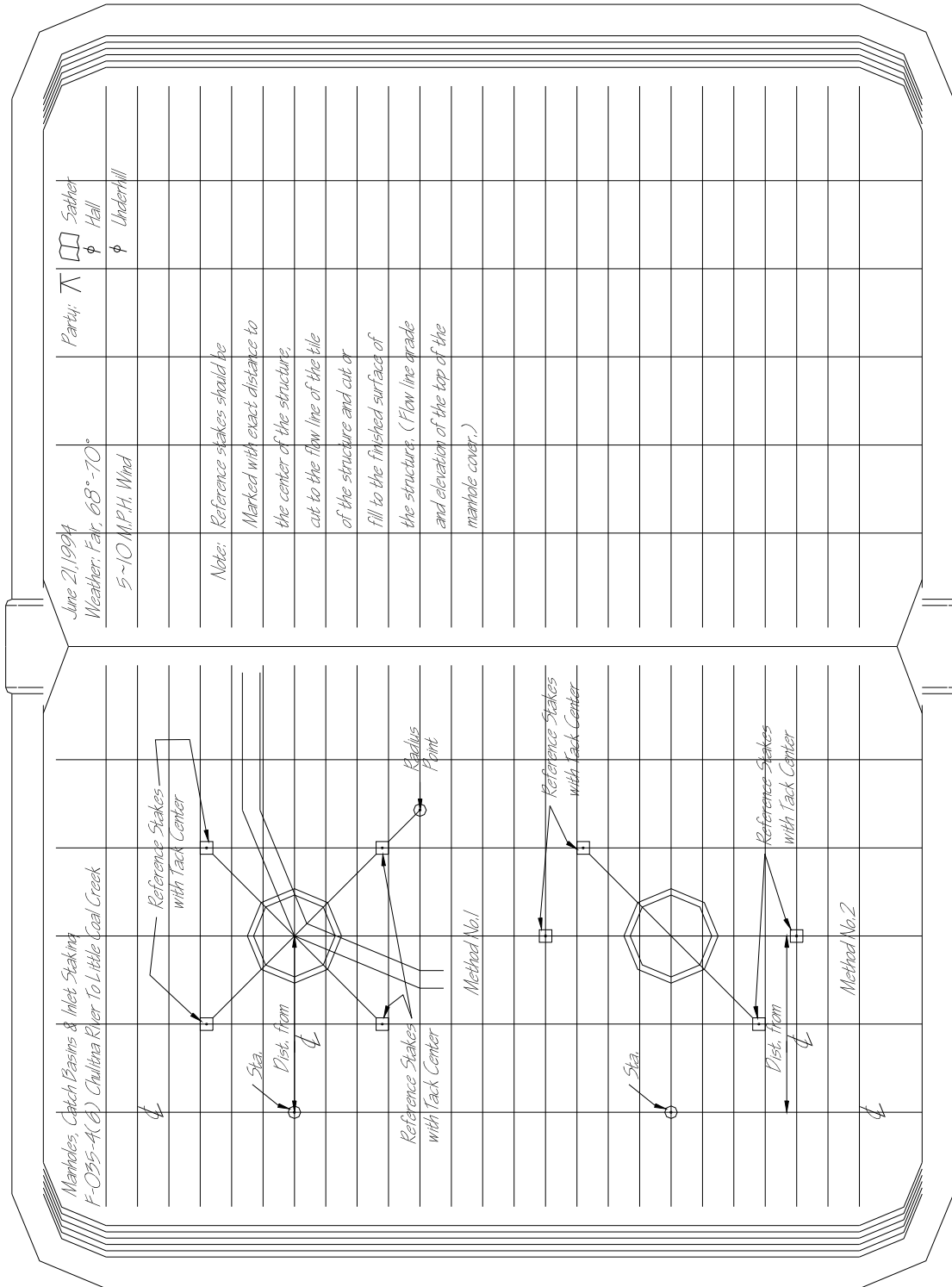
<p><b>Setting Cut Stakes</b> Explanation of markings:</p> <p><b>Front</b> C 6<sup>6</sup>, 40<sup>9</sup>, 1 ½ : 1, ditch 8<sup>0</sup> indicates a cut of 6.6' beginning at the SS and progressing on a 1 ½ : 1 slope to the back of the 8' ditch.</p> <p><b>Side</b> S=1.0' R indicates 1.0 foot of superelevation from centerline to shoulder line on a curve to the right.</p> <p><b>Back</b> Centerline C 3<sup>6</sup>, 22+00 indicates a cut of 3.6' from the SS to centerline grade and the station of the SS being 22+00.</p> <p><b>RP No. 2</b></p> <p><b>Front</b> C 1<sup>8</sup> 15<sup>0</sup>, 22+00 indicates that the natural ground at the slope stake is 1.8 feet lower in elevation than the natural ground at the RP, the RP is offset 15' beyond the SS and that the station of the RP is 22+00.</p> <p><b>Side</b> Repeat the same information that is on the SS.</p> <p><b>Back</b> Repeat the same information that is on the SS. This is turned away from centerline to attract attention. In the event the SS is missing the cut will not be started at the RP.</p>	<p><b>Setting Fill Stakes</b> Explanation of markings:</p> <p><b>SS No. 1</b></p> <p><b>Front</b> F 4<sup>0</sup>, 23<sup>0</sup>, 2:1 indicates a fill of 4' beginning at the SS and progressing on a 2:1 slope to shoulder line and elevation.</p> <p><b>Side</b> S=1.0' R indicates a 1.0 feet of superelevation from centerline to shoulder line on a curve to the right.</p> <p><b>Back</b> Centerline F 3<sup>0</sup>, 22+00 indicates a fill of 3' from the SS to centerline grade and the station of the SS being 22+00.</p> <p><b>RP No. 1</b></p> <p><b>Front</b> F 1<sup>0</sup>, 20<sup>0</sup>, 22+00 indicates that the natural ground at the slope stake is 1.0 foot higher in elevation than the natural ground at the RP, the RP is offset 20' beyond the SS and that the station of the RP is 22+00.</p> <p><b>Side</b> Repeat the same information that is on the SS.</p> <p><b>Back</b> Repeat the same information that is on the SS. This is turned away from centerline to attract attention. In the event the SS is missing the fill will not be started at the RP.</p>
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**Figure 18.15.11**  
**Slope Stake Explanations**

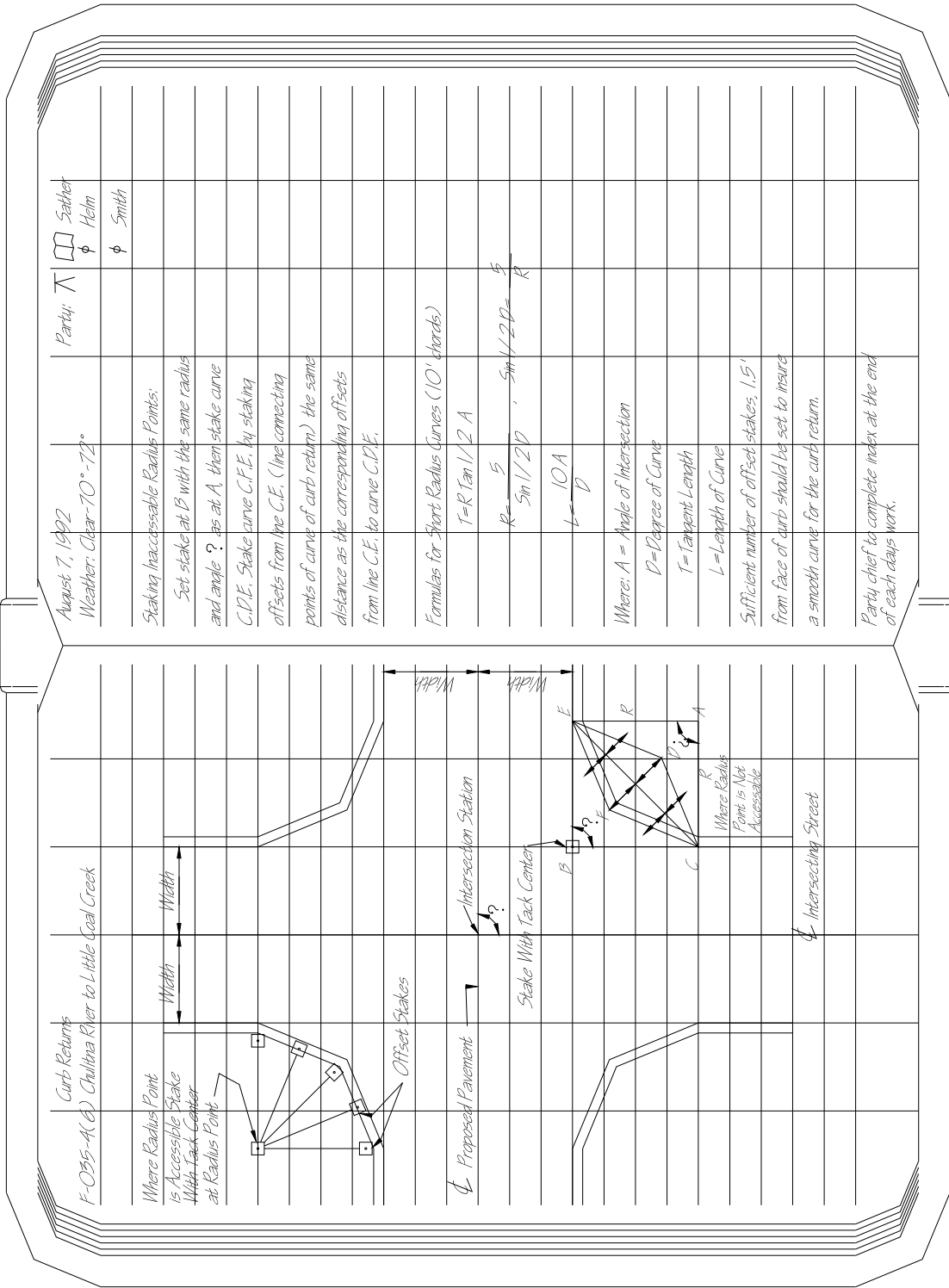


Culvert Installation F-035-A(6) Chulitna River To Little Coal Cr.		July 4, 1992 Clear, 75°-80°		Party: $\nabla$ F. Dapperfield $\phi$ Underhill $\phi$ Hall	
Sta.		B.M. #	Elev.		
Install: Culvert Dimensions and heat number		Rad=			
Actual Sta. Installed		H.I.=			
Actual Dimensions of culvert installed		(Original Ground Cross Section Here)			
Inspector:	Date installed:				
Trench Measurement: Width at top & bottom					
B.M. # Elev.		H.I.		H.I.	
Rad=		F.L. Elev.		F.L. Elev.	
H.I.=		Rad		Rad	
(Cross Section of excavated trench along centerline of trench here.)					
Structural Excavation:		Cut or Fill		Cut or Fill	
Comp. By:	Date:	To be shown on stakes:			
Checked By:	Date:			Station	
Note: 1. If excavation exceeds pay limits give reasons. 2. Inspector to calculate bedding and trench quantities, inlet or outlet ditch quantities, if required. 3. In some instances offsets may be at right angles to the pipe rather than along C of pipe. 4. If culvert side is rough or structure is broken back, the engineer should take cross sections at right angles to the C of culvert. Additional pages may be used for cross sections. Avoid crowding notes. 5. Party chief to complete index at the end of each days work.					

**Figure 18.15.13**  
**Sample Culvert Installation**



**Figure 18.15.14**  
**Sample Methods of Staking Manholes, Catch Basins, and Inlets**



**Figure 18.15.15**  
**Sample Methods of Staking Curb Returns**

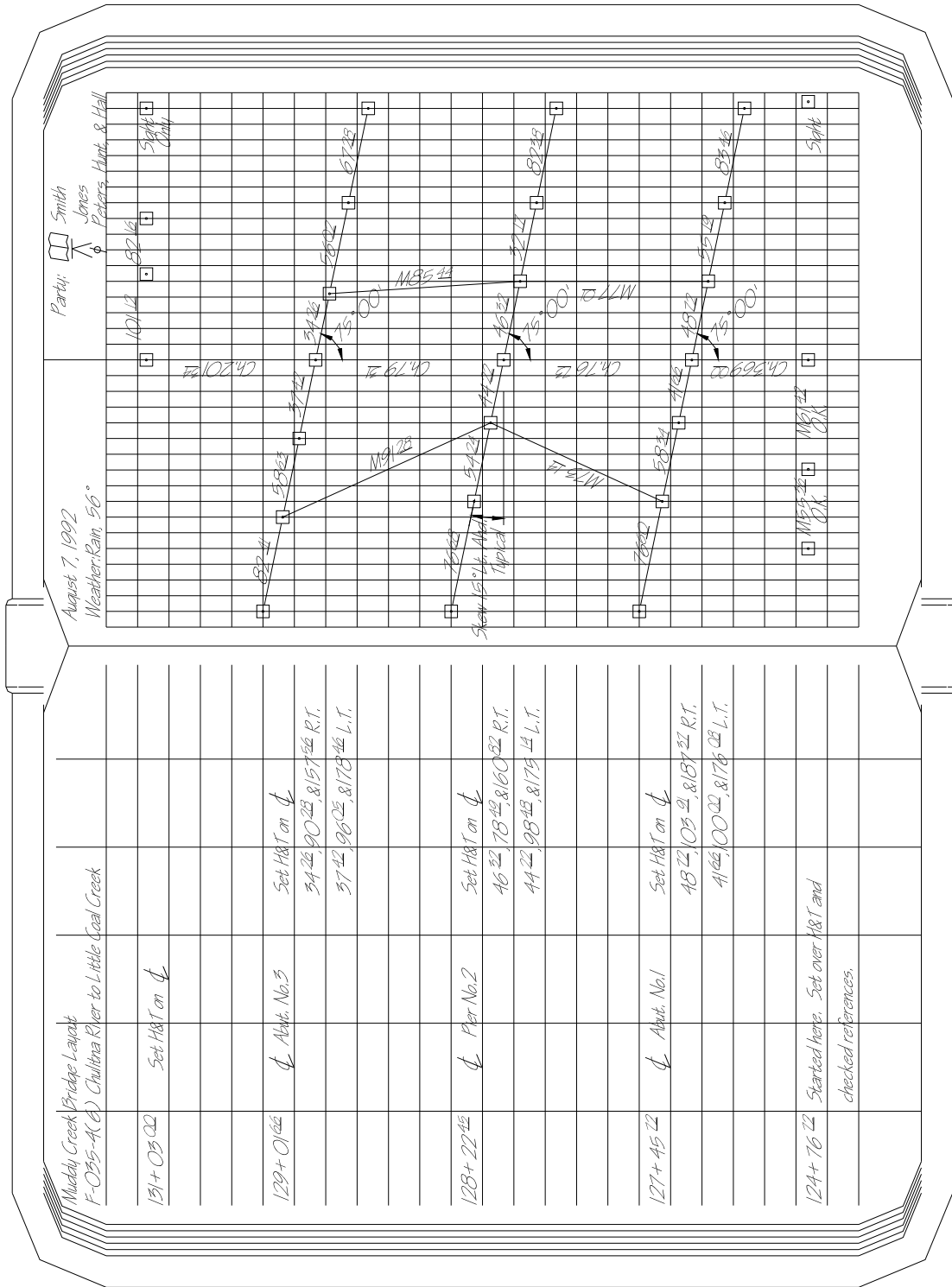
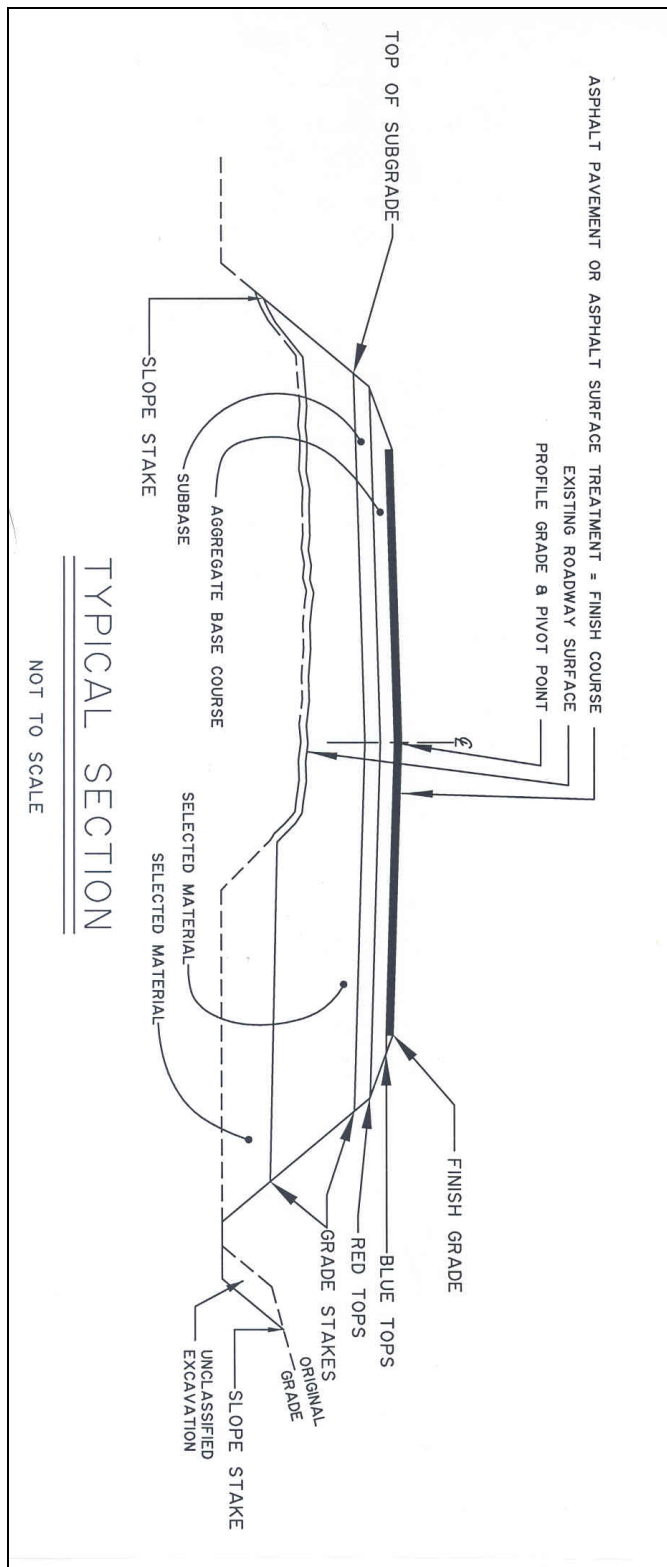


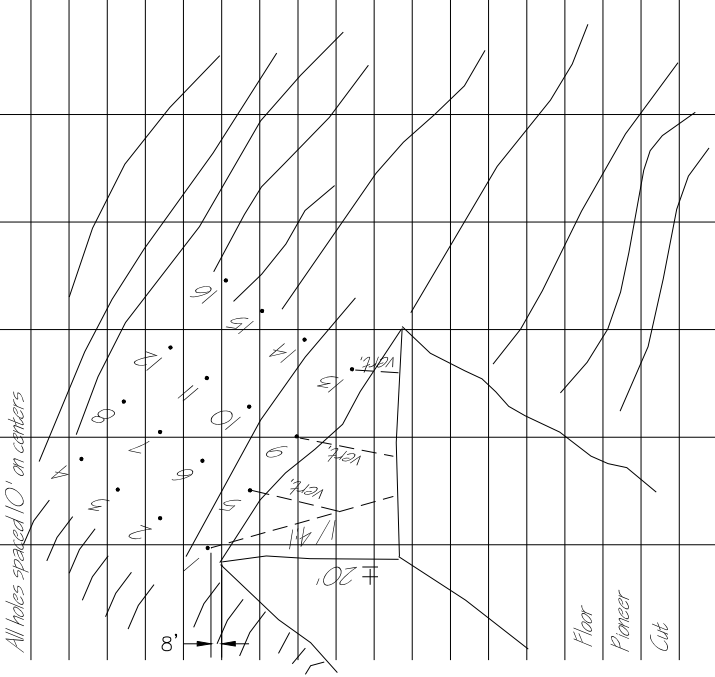
Figure 18.15.16  
Sample Structure Staking Notes





**Figure 18.15.17**  
**Typical Section**

<p>July 21, 1992 ~ Friday Clear. Warm 0 to 5 MPH Wind North</p>					
<p>Completed drilling rained for pioneer cut 417 + 10 to 417 + 45 at 9 A.M. Commenced loading at 9:50 A.M. and finished at 11:45 A.M. See facing page for shot diagram.</p>					
<p>Shot at 12:05 P.M. Shot pulled well, very little side cast rock and breakage appears to be pretty uniformly 1/2 C.Y.</p>					
<p>However, hole No. 8 misfired. Powder man pulled part of stemming from hole, set 2-1 1/4" sticks 60° powder and shot at 1:20 P.M. This was successful in detonating charge. Mucking began at 1:30 P.M.</p>					
<p>E. C. Sathers Sr. Inspector</p>					
<p>Note: The information on the facing page is entirely hypothetical, so no attempt has been made to guess in stemming, wiring patterns or the detonating device, but this information should be shown.</p>					



**Exhibit A  
Sample Blasting Notes**

## 18.16. Calculating Equitable Adjustments

An equitable adjustment is a change in the contract price and/or time that preserves the relative cost and pricing principles of the original contract. The contractor and the Project Engineer will attempt to negotiate an equitable adjustment that is fair and acceptable to both parties. The adjustment will be based on costs and credits that are “allowable costs” for overhead and profit.

A cost is allowable if it:

- Meets the definition of “cost” in the contract
- Is reasonable
- Is allocable to the contract
- Is compensable under the terms of the contract and Alaska law
- Is incurred as a result of the act or event giving rise to the request for, or issuance of, the equitable adjustment

Guidance on determining reasonableness can be found in 48 CFR 31.201-3.

“A cost is reasonable if, in its nature and amount, it does not exceed that which would be incurred by a prudent person in the conduct of competitive business. Reasonableness of specific costs must be examined with particular care in connection with firms or their separate divisions that may not be subject to effective competitive restraints. No presumption of reasonableness shall be attached to the incurrence of costs by a contractor. If an initial review of the facts results in a challenge of a specific cost by the contracting officer or the contracting officer’s representative, the burden of proof shall be upon the contractor to establish that such cost is reasonable.

What is reasonable depends upon a variety of considerations and circumstances, including:

- a. Whether it is the type of cost generally recognized as ordinary and necessary for the conduct of the contractor’s business or the contract performance;
- b. Generally accepted sound business practices, arm’s length bargaining, and federal and state laws and regulations;

- c. The contractor’s responsibilities to the government, other customers, the owners of the business, employees, and the public at large; and
- d. Any significant deviations from the contractor’s established practices.”

Guidance on whether a cost is allocable to the contract is provided in 48 CFR 31.201-4.

“A cost is allocable if it is assignable or chargeable to one or more cost objectives on the basis of relative benefits received or other equitable relationship. Subject to the foregoing, a cost is allocable to a federal contract if it:

- a. Is incurred specifically for the contract;
- b. Benefits both the contract and other work, and can be distributed to them in reasonable proportion to the benefits received; or
- c. Is necessary to the overall operation of the business, although a direct relationship to any particular cost objective cannot be shown.”

Guidance on whether the Department is entitled to a credit and how it will be determined is provided in 48 CFR 31.201-5.

“The applicable portion of any income, rebate, allowance, or other credit relating to any allowable cost and received by or accruing to the contractor will be submitted to the Department either as a cost reduction or by cash refund.

The percentage rate payable to the contractor will be a rate established by mutual agreement between the Department and the contractor, taking into consideration the contractor’s customary overhead and profit rates as documented by the contractor’s accounting and financial records.

**The term “price” means allowable costs (as defined above) plus profit, plus overhead**

## **18.17. Night Work**

The Special Provisions and Standard Modifications of a contract may require or allow a contractor to perform the construction during the night. Night work is defined as work occurring between sunset to sunrise, except for work occurring on the days that no lighting is required for a specific latitude, see the table in 643-1.02. The Worksite Supervisor is responsible for implementing the Night Work Lighting Plan. Work zone illumination shall be subsidiary to other items.

### **18.17.1 Night Work Lighting Plan**

The contractor is required to submit a Night Work Lighting Plan to the Project Engineer with the Traffic Control Plan 30 days prior to the start of night work for all projects where night work is planned. The Project Engineer has seven days to review the plan. The contractor will make necessary modifications in response to any comments by the Project Engineer. The contractor is not allowed to begin night work before the plan approval.

The Night Work Lighting Plan shall include:

- Layout plan showing light location and configuration, including both typical spacing and lateral placement.
- Description of light towers.
- Description of electrical power source.
- Specific technical details on all lighting fixtures to be provided.
- Details on any hoods, louvers, shields, or other means to be used to control glare.

### **18.17.2 Lighting of the Night Work**

The contractor shall illuminate night work areas as required in the specifications.

The contractor shall maintain the required lighting equipment. See Table 643-2 for a listing of specific tasks and required lighting equipment.

The Project Engineer shall monitor the lighting system for unacceptable glare and notify the contractor to correct the situation when it occurs.

The contractor needs to beware of overhead height restrictions (such as trees, aerial utilities, or bridges) when moving the lighting system.

Existing street and highway lighting do not eliminate the need for the contractor to provide lighting.

### **18.17.3 High Visibility Clothing**

All flaggers and workers who work next to traffic or equipment (includes workers who represent the Department), and who are under the contractor's control (including all subcontractors), must wear clothing that meets specifications.

Department personnel shall maintain all vests, jackets, coveralls, raingear, hard hats, and other apparel in a neat, clean, and presentable condition.

## 18.18. SCWE Program

### 18.18.1 Purpose

The purpose of this section is to describe the intent, function and operational procedures for the Alaska Department of Transportation and Public Facilities (DOT&PF) Safety Conscious Work Environment (SCWE) Program.

### 18.18.2 What is SCWE?

A safety conscious work environment is one which employees feel free to raise safety concerns without fear of retaliation.

### 18.18.3 Scope and Applicability

The intent of the SCWE program is to foster an atmosphere to encourage employees' willingness to identify safety concerns. The SCWE program applies to all DOT&PF employees. The program provides guidance to employees who have concerns about safety practices, harassment, hostile workplace, or similar problems while on the job. The program provides an overview of the protections afforded under the various regulations.

### 18.18.4 Policy

We are committed to provide an environment where employees are encouraged to raise safety concerns without fear of retaliation. It is appropriate for employees to spend work time into reporting concerns. Management at all levels invites the communication of safety concerns and is committed to the timely investigation and disposition of all safety-related issues. Retaliation for raising concerns will not be tolerated and when found appropriate management action will be taken.

### 18.18.5 Reference

This SCWE Program is established in accordance with employee protection as required under state and federal laws and regulations to include:

1. Section 211 Energy Reorganization Act, 42 U.S.C. § 5851—Section of the Energy Reorganization Act of 1974 dealing with Whistleblower Protection;
2. 10 CFR 30.7—NRC Employee Protection for engaging in protected activities regulations;
3. Title 29 CFR—OSHA regulations

4. May 1996 NRC Policy Statement—Requires the establishment of a Safety Conscious Work Environment;
5. Alaska Statute Title 18—Health, Safety, and Housing; Chapter 60 – Safety
6. Alaska Statute Title 39—Public Officers and Employees; Chapter 90. Miscellaneous Provisions; Article 2/ Protection for Whistleblowers.

### 18.18.6 Definitions

**NRC:** Nuclear Regulatory Commission

**SRSO:** Statewide Radiation Safety Officer

**Protected Activity:** Is when a Concerned Individual (CI) identifies and communicates a safety concern regulated by the NRC or other government agency (i.e. OSHA). The protection applies if the CI communicates the concern to co-workers, supervisors, the NRC, another government agency, Congress, or the Media. Types of concerns can be reporting of, refusing to engage in, requesting an investigation of, or testifying on, unsafe work practices.

**Adverse Action:** Action initiated by the employer that detrimentally affects the employee's terms, conditions or privileges of employment. They can include any action that involves involuntary changes in the CI's employment. Examples are but not limited to termination, demotion, denial of a promotion, lower performance appraisal, or transfer to a less desirable job.

**Retaliation:** Occurs when an adverse action is taken against a CI that is legally engaged in protected activities. The employer/decision maker must have knowledge of the protected activity and a cause and effect connection is made between the protected activity and adverse action.

**Employee Safety Concerns Program (ECP):**

An alternative process for a CI to report safety concerns and seeks an impartial review of the concern. The Program is appropriate if an employee is uncomfortable with direct management interface or desires confidentiality.

### **18.18.7 Training**

#### **Content**

The training will address the following points:

1. NRC Employee Protection regulations and other applicable federal and state laws pertaining to whistleblower protection.
2. DOT&PF policies and procedures for maintaining a safety conscious work environment. Roles and responsibility of the statewide and regional radiation safety officers in assuring compliance with NRC radiation safety requirements.

#### **Frequency**

- Nuclear Gauge Users: Those involved in the use of radioactive materials will receive SCWE training as a part of the initial eight hour nuclear gauge users training and HAZMAT refresher training every two to three years.
- Supervisors: Training will be provided for supervisors of nuclear gauge users and those providing nuclear gauge program oversight on a rotating basis. Specifically:
  - a. SCWE training will be provided at the annual regional construction season project engineer meetings.
  - b. The intended training session will occur in the Northern Region in the spring of 2009, followed by Southeast Region and Central Region in years 2010 and 2011.
  - c. Starting in year 2012, training will be provided in each region every third year on a rotating basis.

#### **Trainer Qualifications**

Individuals performing the training shall have received:

- 40 hour safety-related course (HAZMAT, RSO, OSHA)
- DOT&PF SCWE training course

### **18.18.8 Communication**

Posters with pertinent SCWE information shall be placed on all project office bulletin boards.

Information shall include:

1. Definition of SCWE; 18.18
2. DOT&PF policy statement;

3. Contact information for the Employee Safety Concerns Program, State and Federal Agencies.

The SRSO will publish an annual newsletter at the beginning of the construction season for the Nuclear Gauge Users. Information shall include:

1. Definition of SCWE;
2. Lessons learned and/or case studies;
3. Updates on any changes to the Radiation Protection Program and/or SCWE Program;
4. Contact information for the Employee Safety Concerns Program, State and Federal Agencies;
5. Recognition of employees for raising concerns (with their permission);
6. Other pertinent items of interest.

#### **Management Notification of Concerns**

The goal of DOT&PF's SCWE Program is to create and maintain an environment where employees feel free to raise concerns without fear of retaliation. Each employee is responsible to see that management is notified promptly of a safety concern. This does not restrict the avenue used to inform management. Employees are free to use alternate channels of communication if desired. Means of communicating a concern include the following:

- a. Direct Supervisor. Addressing a safety issue informally through the direct supervisor or any member of the management chain is often the most efficient avenue.
- b. Employee Safety Concerns Program (ECP). If an employee is uncomfortable with management or desires confidentiality, the employee may contact the Statewide Safety Officer or the Statewide Radiation Safety Officer through the Employee Safety Concerns Program. The ECP provides an employee an alternate route to raise and resolve a concern. See Alaska Employee Safety Concerns Program Manual.
- c. Human Resources.
- d. Regulatory Authority.

#### **Program Responsibilities**

**Directors and Chiefs are responsible for:**

1. Implementing DOT&PF's SCWE Program in their work areas through demonstrated behaviors by:
  - a. Availability

- b. Receptiveness
  - c. Sensitivity
  - d. Communications
  - e. Timeliness
  - f. Responsiveness
  - g. Safety-first focus
2. Ensuring that employees are offered training in the policies and practices of SCWE.
  3. Ensuring that managers and superintendents are aware of their responsibilities for raising concerns and where to go to do so; receiving and addressing concerns in a positive, objective, and professional manner; and acting quickly on allegations of harassment, intimidation, retaliation or discrimination with appropriate help.

**Managers, Superintendents, Foremen and Leads are responsible for:**

- a. Encouraging employees to bring safety concerns forward by being available and having an open-door policy in the office and in the field;
- b. Being sensitive to an employee’s potential reluctance to raise concerns and, therefore the need to protect their identity or the identity of others involved;
- c. Receiving concerns by listening and restating the concern, making sure they understand what the concern is;
- d. Ensuring that employees are trained in SCWE;
- e. Familiarizing themselves with the SCWE Program;
- f. Receiving and addressing concerns in a positive, objective, and professional manner; and acting quickly on allegations of harassment, intimidation, retaliation or discrimination with appropriate help.

**Statewide Safety Officer is responsible for:**

1. Coordinating supervisor training;
2. Performing reviews of the SCWE Program and updating, if required;
3. Providing support and assistance to all employees with safety issues that may arise.

**Regional Radiation Safety Officer is responsible for:**

1. Coordinating nuclear gauge user training;
2. Providing support and assistance for safety issues involving nuclear gauges.

**Workers are responsible for:**

- Following all safety instructions and carrying out work duties in a safety-conscious manner;
- Timely reporting all safety related incidences or concerns.

**18.18.9 Self Assessment**

Department Management shall make or cause to be made, an assessment of the effectiveness of the policies and procedures detailed in this Program. The self-assessment shall consist of one or more of the following methods:

- Lessons Learned Evaluation: to determine if lessons learned from internal and external sources are shared in a timely manner;
- Benchmarking: to determine best practices in industry;
- Performance Indicators: to track how we are doing;
- Survey and Interviews: to determine program effectiveness;
- Direct Behavior Observations: as part of normal supervisory responsibilities.

**18.18.10 Program Review**

The Statewide Safety Officer in conjunction with the commissioner, or designee, will review the SCWE Program and relevant publications on an annual basis. Where deficiencies are found or enhancements identified, corrective action will be developed as appropriate.