Haines Borough Planning Commission Regular Meeting Agenda

COMMISSIONERS:

ROB GOLDBERG, CHAIR
DANIEL GONCE, VICE-CHAIR
ROBERT VENABLES
ROBERT MILLER
ANDY HEDDEN
DON TURNER III
LEE HEINMILLER

Thursday, June 13, 2013 - 6:30 p.m. **Assembly Chambers, 213 Haines Hwy.**

1. **CALL TO ORDER / PLEDGE TO THE FLAG**
2. **ROLL CALL**
3. **APPROVAL OF AGENDA**
4. **APPROVAL OF MINUTES:** May 9, 2013
5. **PUBLIC COMMENTS** [Items not scheduled for public hearing]
6. **CHAIRMAN'S REPORT**
7. **STAFF REPORT**
8. **PUBLIC HEARINGS:**
   - **A. Stephen Samuel McPhetres – Carport Conditional Use & Variance Proposal - Action Item:** McPhetres has requested for the Planning Commission to approve a Conditional Use Permit and a Variance to allow the construction of a 21' by 20' carport to be built within Haines Borough code requirement of a 15' separation from an adjacent building and a 20' setback from street lot lines.
     Possible motion: Approve McPhetres conditional use & variance proposal.
9. **UNFINISHED BUSINESS:** None
10. **NEW BUSINESS:**
    - **A. Historic District/Building Review:**
      [The Planning Commission will sit as the Historic District Committee and hear the following agenda items pertaining to properties and buildings in the Significant Structures Area or Historic District zones.]
      1. Joanne Waterman – Port Chilkoot Fire Hall Restoration – Action Item – Joanne Waterman has requested for the Planning Commission to approve her restoration plan on the Port Chilkoot Fire Hall. She is proposing to replace the windows and doors of the Fire Hall. **Possible motion:** Approve Joanne Waterman's restoration plan on Port Chilkoot Fire Hall.
    - **B. Haines Borough Code Amendments - Title 18 Revisions**
      1. Sign Regulations in HBC 18.90.060 – Action Item – There are two issues staff wants the Planning Commission to consider. 1. Flashing or blinking signs are prohibited by code, but "Open/Closed" or credit card signs are exempted from the sign regulations. Flashing/blinking "Open" signs are becoming more prevalent in the townsite service area; 2. "Traffic control, parking, directional or informational signs or devices" are exempted from the sign regulations with no size limitation. **Possible motion:** Recommend the Assembly adopt the proposed draft ordinance to amend HBC 18.90.060(D)&(I).
      2. Expanding "Setback Regulations in Townsite Service Area" Borough Wide - Discussion Item – This item is up for discussion at the request of Robert Venables.
      3. Clarify & Define "Yurt" in HBC 18.60.020(H) Temporary Residence - Discussion Item - This item is up for discussion at the request of Don Turner III.
      4. Disclosure of Zoning Regulations for Property Sales - Discussion Item - This item is scheduled as a follow-up discussion item of May 9, 2013 Agenda.
    - **C. Project Updates:** None
    - **D. Other New Business:**

      1. ADOT & PF Haines Highway MP 3.5 - MP12 Project – Discussion Item: ADOT & PF submitted a federal project plan for Haines Borough review and comment. This item is up for discussion at the request of the Borough Manager.
11. **COMMISSION COMMENTS**
12. **CORRESPONDENCE**
13. **SCHEDULE MEETING DATES**
    - **A. Regular Meeting –** Thursday, July 11, 6:30 p.m.
14. **ADJOURNMENT**

Haines Borough
Planning Commission Meeting
May 9, 2013
MINUTES

Draft

1. **CALL TO ORDER/PLEDGE TO THE FLAG –** Chairman **Goldberg** called the meeting to order at 6:30 p.m. in Assembly Chambers and led the pledge to the flag.

2. **ROLL CALL – Present:** Chairman Rob **Goldberg**, Commissioners Rob **Miller**, Andy **Hedden**, Lee **Heinmiller,** Don **Turner III,** Danny **Gonce**, and Robert **Venables**.

   Staff Present: Xi "Tracy" **Cui**/Borough Planning & Zoning Technician III
   Also Present: Joanne **Waterman**, Darcee **Messano**, James **Studley**, Aaron **MacDonald**

3. **APPROVAL OF AGENDA**

Motion: Miller moved to "approve the agenda". **Gonce** seconded it. The motion carried unanimously.

4. **APPROVAL OF MINUTES** – April 18, 2013 Regular Meeting

Motion: Heinmiller moved to "approve the April 18, 2013 Regular Meeting Minutes." **Miller** seconded it. The motion carried unanimously.

5. **PUBLIC COMMENTS** – None

6. **CHAIRMAN'S REPORT** –

   Goldberg stated that the community is looking into the possibility of replacing/restoring the Borough buildings. The community has consulted an engineering company to estimate the cost and seek solutions to increase the energy efficiency of those buildings.

7. **STAFF REPORTS**

   Cui reported recent permitting and enforcement activities.

8. **PUBLIC HEARINGS**

   A. Jeffrey and Darcee Messano – Guest House Conditional Use Proposal

   Goldberg opened up the public hearing at 6:40 p.m.

   Messano stated that she is requesting for the Planning Commission to approve her conditional use proposal to allow the construction of a 14' by 18' cabin to be built on her property. The proposed cabin is for sleeping purposes only.

   Goldberg closed the public hearing at 6:41 p.m.

   Motion: Venables moved "to approve **Messano**'s conditional use proposal to build a 14' by 18' cabin." **Miller** seconded it. The motion carried unanimously.

9. **UNFINISHED BUSINESS** - None

10. **NEW BUSINESS**

    A. Historic District/Building Review - None

    B. Haines Borough Code Amendments – Title 18 Revisions

1. Parking Regulations in HBC 18.80.040

Goldberg stated that small lots in the downtown area make it difficult for commercial development to meet the parking requirements and code change may help remedy this problem. He suggests that on-street parking spaces adjacent to the property being developed may be counted toward meeting the parking requirement.

Miller asked how long does it allow for someone parking on-street before being towed away. **Miller** said parking spaces cause a lot of issues between neighbors in Juneau.

Turner stated that the parking regulations are fine, and there is nothing wrong with the current parking regulations. He believes it will cause a lot of other problems if the parking code gets amended.

Goldberg said the over-night parking and snow-removal issues will be resolved if the code amendment is only subject to commercial uses.

Studley stated the existing parking regulations for commercial uses are over-restrictive, which causes high cost of commercial developments in Haines.

Miller said he thinks on-street parking adjacent to the residential properties should be exclusive in this case.

Venables asked if the Planning Commission may grant a variance for parking standards.

Goldberg answered it will be very difficult to grant a variance request if there is no physical problem with the property.

Miller said he thinks there are not enough parking spaces for St. Lucy's Assisted Living. However, he is not against the parking code amendment.

Gonce suggested all on-street parking should be only allowed for short term.

Venables moved to "recommend the Assembly amend Haines Borough code that legal, on-street parking spaces adjacent to commercial property being developed may be considered by the Planning Commission for short term parking and counted toward meeting the parking requirement in 18.80.040(B)." **Miller** seconded it. The motion passed 6 to 1 with **Turner** opposed.

2. 15' Building Separation Regulations in HBC 18.80.030

Goldberg said the Planning Commission has seen several conditional use applications for the 15-foot building separation requirement that involved unoccupied structures. Since the 15-foot building separation is for public safety and fire-related concerns, **Goldberg** suggests that 15-foot separation between unattached buildings applies only when at least one of the buildings is for human occupancy.

Miller mentioned the current code requires fire-related concerns must meet the approval of both the state fire marshal and local fire department. However, the buildings for residential uses are not able to get approval of the state fire marshal. He thinks that this needs to be fixed as well.

Venables asked if the current setback regulations are applied Borough wide.

Goldberg answered it only applies to the townsite service area. The Planning Commission can consider expanding setback regulations Borough wide. This topic will be scheduled as a discussion item for the next regular Planning Commission meeting.

Heinmiller moved to "recommend the Assembly amend Haines Borough code 18.80.030 that the distance between unattached buildings must be 15 feet unless approved as a conditional use by the Planning Commission. Building separation is intended for public safety; fire-related concerns must meet the approval of both the state fire marshal and local fire department, where applicable. The 15-foot separation between unattached buildings applies only when at least one of the buildings is for human occupancy." **Gonce** seconded it. The motion carried unanimously.

3. Clarify "Temporary Residence" in HBC 18.60.020 and "Temporary Use" in HBC 18.20.020

Goldberg mentioned according to HBC 18.60.020, temporary residence permits may be granted for a period of one year, and one six-month extension of the temporary residence permit may be granted by the Planning Commission as long as the developer is complying with all requirements. However, HBC 18.20.020 defines "temporary use" as a building or structure that is capable of being immediately moved, or a use which is for a limited time up to six months. There is a conflict between those two sections of code, which need to be fixed.

Venables asked if a yurt is considered as a temporary residence.

Goldberg answered a yurt is considered as a single residential structure, which requires a land use permit.

Turner said he thinks a yurt should be considered as a "tent", the same as mobile homes, RVs and trailers.

Goldberg said the issues of a yurt will be scheduled as a discussion item for the next regular Planning Commission meeting.

Turner moved to "recommend the Assembly amend Haines Borough code 18.20.020 that 'temporary use' means a building or structure that is capable of being immediately moved, or a use which is for a limited time up to 18 months." **Miller** seconded it. The motion carried unanimously.

4. Disclosure of Zoning Regulations for Property Sales

Venables stated that it is very important to disclose the zoning regulations to let the property owners know the allowable uses that may occur in different zoning areas. For example, people can build houses within zero setback to the property lines in commercial zone; junk yards and power plants could be allowed in light-industrial zone.

Studley said it is state law that requires the real estate agency to disclose zoning regulations for property sales. However, the problem is that a lot of people sell their properties on their own, and they will not tell the future owners about allowable uses that may happen in the area.

Venables suggested that the disclosure of zoning regulations could be shown on a survey plat, but he does not have any detailed suggestions yet.

Miller said it will be a good idea if the Borough staff could disclose the property report and provide a list of allowable uses that may happen in the area to the future property owners.

Goldberg said he will go talk with the Borough manager. This topic will be back on the agenda of the next Planning Commission meeting.

5. Flashing or Blinking Sign Regulations in HBC 18.90.070

Goldberg said flashing/blinking signs are becoming more prevalent in the townsite service area, but currently flashing/blinking signs are prohibited by Haines Borough code. The Planning Commission needs to determine either to enforce the code or change the code.

Heinmiller said the technology is approaching the small town. Flashing/blinking signs are very distracting.

Turner asked if the "scrawling" sign in school is prohibited by the Borough code. He does not think it is a flashing/blinking sign, because it just changes a message to another message.

The Planning Commission agreed on enforcing the code.

C. Project Updates – None

D. Other New Business

1. Soboleff/McRae Veteran's Village Plan

Studley gave the Planning Commission a brief introduction to the preliminary plan of Soboleff/McRae Veteran's Village (SMVV). He said Haines Assisted Living (HAL) does not need a conditional use or variance permit because they have 43 parking spaces to meet the code. HAL wants to widen the street on the south side of SMVV by placing a curb closer to the facility, essentially indenting the existing sidewalk and bringing it closer to the proposed Veteran's building and creating two off-street parking spaces within the circumference of the parking lot. The sidewalks will be paved. The problem is that these sidewalk improvements are all within the Borough Right-of-Way. HAL will build one storm drain system to connect to 3rd Ave. The design allows for a safety factor by placing a "No Parking" sign near 2nd Ave on Dalton St facing west, which will keep a clear visual path looking towards 2nd Ave. HAL is requesting for the Planning Commission to approve and accept the construction of the sidewalk and street improvements. **Studley** said he just wants to make the street look nice.

Goldberg said it is actually a gift to the Borough.

Miller said he thinks this preliminary plan is a lot better than the one with no sidewalk and street improvements. He has no problems with HAL's proposal.

Goldberg said that HAL's proposal is use-by-right in commercial zone. The permit should be approved administratively in the Borough office. The Planning Commission can recommend HAL's proposal subject to the Borough manager's approval as these sidewalk and street improvements are within the Borough Right-of-Way.

Venables moved to "recommend the manager to accept HAL's proposal for sidewalk improvements on Dalton St." **Turner** seconded it. The motion carried unanimously.

More discussion ensued.

2. Downtown Revitalization Committee

The Planning Commission recommended the Mayor appoint Rob **Miller** to fill one seat on the Downtown Revitalization Committee. The motion carried unanimously.

11. COMMISSION COMMENTS - None

12. COMMUNICATION - None

13. SET MEETING DATES – The next Regular Planning Commission meeting is scheduled for 6:30 p.m. on Thursday, June 13, 2013.

14. ADJOURNMENT– 8:49 p.m.

Staff Report for June 13, 2013

1. Permits Issued Since May, 2013

NUMBER	DATE	OWNER/APPLICANT	PIN	LOT	BLK	SUBDIVISION	DEVELOPMENT	ZONE
13-24	5/6/13	Cody Taylor	C-STR-03-22C0	1		Waterman Sub.	Covered Porch	RMU
13-25	5/6/13	Lynn Horvath	C-HEM-33-0300	3	3	Hemlock Estates Sub.	Utilities ROW Permit	SR
13-13A	5/6/13	Stanley Boor	C-HGL-04-0200	2A	4	Highland Estates Sub.	Retainning Wall & Remove windows & Replace the front door	SR
13-26	5/10/13	Darcee Messano	C-CIA-03-0300	3	3	Chilkoot Inlet Sub.	CUP - Guest House	RR
13-27	5/13/13	Owen Stockbridge	C-STR-02-3500	35		Small Tract Road	SFR Addition	RMU
13-28	5/13/13	Shannnon Mcphetres	C-690-03-0300	3	3	USS 690	Fence within setbacks	SR
13-29	5/13/13	Alaska Investment Properties LLC	C-TNS-07-1200	12	7	Haines Townsite	Culvert & Driveway	SR
13-30	5/16/13	Haines Assisted Living	C-TNS-08-0200 & C-TNS-08-0500	5A & 6	8	Haines Townsite	Soboleff/McRae Veteran' Village	C
13-31	5/17/13	John Nowak	C-SKY-0B-1800	18	B	Skyline Sub.	Fence on lot line	SR
13-32	5/17/13	John Orr	C-HAN-00-04B0	4	B	Hannon Sub.	Storage	C
12-55A	5/17/13	Eric Forster	C-PTC-0N-0200	2	N	Port Chilkoot Sub.	SFR	SR
13-33	5/20/13	Sam Cargill	C-STR-02-2910	29		Small Tract Road	Fence within setbacks	RMU
13-34	5/21/13	Ira Henry	C-HHY-02-0610	4		Henry Sub.	SFR	RMU
13-35	5/28/13	Robert Martin	70 Chilkoot Loop	9	2	Chilkoot Estates Sub.	Satellite Dish & Additional Deck	MR
13-36	5/31/13	Debra Schnabel	C-208-TL-03A0	M8		St. James PlaceTrailer Park	Fence on lot line	MR

2. Enforcement Orders:

- James Moore added a covered porch onto his residence on Mud Bay road. Due to the fact that substantial development took place prior to a land permit being issued, he is being assessed after-the-fact fee. An enforcement letter has been sent out.
- Mark Sogge started a lodging rental business in the rural residential zone of Mud Bay Planning/Zoning District. HBC 18.70.030(B)(3)(e)(4) requires a conditional use permit to open a lodging rental business in the rural residential zone of Mud Bay Planning/Zoning District. He is being assessed after-the-fact fee. An enforcement letter has been sent out.
- Helen Mooney started the construction of a storage addition prior to a land permit being issued. She is being assessed after-the-fact fee.

HAINES BOROUGH, ALASKA
P.O. BOX 1209
HAINES, AK 99827
(907) 766-2231 FAX (907) 766-2716

June 5, 2013

Haines Borough Planning Commission

Re: Stephen Samuel McPhetres Conditional Use & Variance Proposal

Dear Planning Commissioners:

Stephen Samuel McPhetres has applied for a conditional use permit and a variance to allow the construction of a 21' by 20' carport to be built within Haines Borough code requirement of a 15' separation from an adjacent building and a 20' setback from street lot lines. The proposed carport will canopy a "grandfathered" shed and extend enough room for one car. The proposed carport will be located 10' from the existing house, 15' from the Young Road lot line, and 18' from the Barnett Drive lot line.

I have reviewed with staff, and it appears the proposed use will not impose any negative impacts on adjacent property owners. Haines Borough Fire Chief Scott Bradford stated that the Fire Department has no issues with McPhetres adding a carport on the property. Haines Borough Public Works Superintendent Ralph Borders stated that he has no problems with their proposal. It has also been determined the proposal meets the conditional use criterion of Haines Borough code 18.50 and the variance criterion of Haines Borough code 18.80.050.

Thank you for considering this recommendation.

Sincerely,

Mark Earnest
Borough Manager

6-4-13

The Fire dept has no issues with Mcphetres adding a car port on there property on Barnett

Fire Chief

Xi Cui

From: Ralph Borders
Sent: Tuesday, May 28, 2013 12:32 PM
To: Xi Cui
Subject: RE: Shannon & Sam McPhetres Carport conditional use proposal

I have no problems with this Ralph

From: Xi Cui
Sent: Tuesday, May 28, 2013 10:08 AM
To: Scott Bradford; albadgley@usa.net; Ralph Borders; Carlos Jimenez
Subject: Shannon & Sam McPhetres Carport conditional use proposal

Good morning, gentlemen:

McPhetres has requested for the Planning Commission to approve a conditional use permit & a variance to allow the construction of a 21' by 20' carport above the existing shed. Please see the attached site plan and applications.

Scott and Al:
HBC requires a 15' separation from the adjacent buildings due to the fire-related concerns. McPhetres is requesting permission to build a carport less than 15' from the existing house. Please let me know if you have any fire-related concerns.

Ralph and Carlos:
The proposed carport will be located less than 20' from Young Rd and Barnett Dr. The intent of setback regulation is to allow for a certain amount of privacy and outdoor living space around a structure, promote fire safety, prevent snow depositing on adjacent properties, allow room for snow removal, promote safe conditions for off-street parking and vehicular access to public rights-of-way, and provide an adequate sight triangle for the safe approach of vehicles to intersections. Please let me know if you have any snow removal-related concerns.

Please send me your written feedback at your earliest convenience. Thank you very much!

Xi Cui "Tracy"
Planning and Zoning Technician III
Haines Borough
P.O. Box 1209
Haines, Alaska 99827
(907) 766-2231 Ext. 23
Fax: (907) 766-2716

Haines Borough

Planning and Zoning
103 Third Ave. S., Haines, Alaska, 99827
Telephone: (907) 766-2231 * Fax: (907) 766-2716

APPLICATION FOR CONDITIONAL USE PERMIT Permit#: _____
Date: _____

Use this form for use approval by the Planning Commission for conditional uses.

I. Property Owner*	Owner's Agents (If Any)
Name: Stephen Samuel McPhetres	Name:
Mailing Address: PO Box 1192, Haines, AK 99827	Mailing Address:
Contact Phone: Day 907-766-3929 Night	Contact Phone: Day Night
Fax:	Fax:
E-mail: bgcshannonl@yahoo.com	E-mail:

II. Property Information

Size of Property: 12,375 sq. ft

Property Tax #: C-690-03-0300

Street Address: 5 E. Barnett

Legal Description: Lot (s) 3 Block 3 Subdivision _____

OR

Parcel/Tract _____ Section 26 Township 30S Range 59E

[Attach additional page if necessary.]

Zoning: Waterfront ☐ Single Residential ☑ Rural Residential ☐ Significant Structures Area ☐
Rural Mixed Use ☐ Multiple Residential ☐ Heavy Industrial ☐ Waterfront Industrial ☐ Commercial ☐
Industrial Light Commercial ☐ Recreational ☐ Mud Bay Zoning District ☐ Lutak Zoning District ☐ General Use ☐

III. Description of Work

Type of Application (Check all that apply)
- ☑ Residential
- ☐ Commercial
  - _____ sq. ft.
  - _____ seating capacity if eating/ drinking establishment
- ☐ Industrial
- ☐ Church
- ☐ Other _____

Project Description (Check all that apply)
- ☐ Single Family Dwelling
- ☐ Change of Use
- ☐ Multi-Family Dwelling Total # of Units ____
- ☐ Cabin
- ☐ Addition
- ☑ Accessory Structure Carport
- ☐ Other _____

Water Supply Existing or Proposed
- ☒ None
- ☐ Community well
- ☐ Private well
- ☐ Borough Water System
- ☐ Other _____

Sewage Disposal Existing or Proposed
- ☒ None
- ☐ Septic Tank
- ☐ Holding Tank
- ☐ Borough Sewer System
- ☐ Pit Privy
- ☐ Other _____

Valuation of Work: $ 2,000 - 2,500

Current use of adjacent properties:

Currently we have a shed with our oil tank attached behind it. We want to build a carport over both the shed and the tank with enough room for one car.

Attach the following documents to the permit application:

☒ Site plan (see Attachment A) showing lot lines, bearings and distances, buildings, setbacks, streets, etc.

PREAPPLICATION *(Required)*

Pre-application Conference Date: 5/13/13 Sam met with Xi Che to discuss

Prior to submission of an application, the developer shall meet with the manager for the purpose of discussing the site, the proposed development and the conditional use permit procedure. The manager shall discuss these matters with the developer with special attention to policies and approval criteria that may pose problems or constraints on the site or the proposed development activity and policies or approval criteria that may create opportunities for the developer.

APPLICATION

Please provide a written narrative explaining how your project will meet the following requirements. You may use the space provided on this form or attach your answers. A variance may only be granted if the Planning Commission finds that these six standards are met.

1. The use is so located on the site as to avoid undue noise and other nuisances and dangers.

Describe what safeguards are being provided (i.e. setbacks or buffers) to meet the condition.

The carport will not have any effect on these conditions. In fact, it will reduce noise disturbance from loud vehicles going up + down on Young Rd.

2. Explain how the development of the use is such that the value of the adjoining property will not be significantly impaired.

The carport will be attached/covering the existing shed that is located closest to Young Rd., this will not be near the neighbors.

3. Explain how the size and scale of the use is such that existing public services and facilities are adequate to serve the proposed use.

The carport is designed with simple posts and beam construction with a metal roof. The fire hazard is low, and we are located within 25 feet of a fire hydrant.

4. Describe how or why the specific development scheme of the use is consistent and in harmony with the comprehensive plan and surrounding land uses.

This carport will be a consistent look of the resident's home, and will increase the property values of the neighborhood, as the residents will be organized.

5. Explain how the granting of the conditional use will not be harmful to the public safety, health or welfare.

A carport will help contain our vehicle and any outside tools, toys, etc. This will reduce possibilities of injury or harm resulting from inorganization. Snow from the roof will fall on resident property.

6. Describe the safeguards that will be provided so that the use will not significantly cause erosion, ground or surface water contamination or significant adverse alteration of fish habitat on any parcel adjacent to state-identified anadromous streams.

Currently, water from Barnett Dr. watertower run off drains through residents' driveway. The carport building and gravel base will alter the path of the runoff to not harm any fish habitat and will contain erosion.

IV. FEE

A non-refundable fee of $150 must accompany this application. Checks must be made payable to the HAINES BOROUGH.

NOTICE

Per HBC 18.50.040, Comments received from property owners impacted by the proposed development will be considered and given their due weight. Additionally, the Planning Commission may impose one or more of the following conditions:

1. Development Schedule. The conditions may place a reasonable time limit on construction activity associated with the development, or any portion thereof, to minimize construction-related disruption to traffic and neighbors, to ensure that lots are not sold prior to substantial completion of required public improvements, or to implement other requirements.
2. Use. The conditions may restrict the use of the development to specific uses indicated in the approval.
3. Owner's Association. The conditions may require that if a developer, homeowner or merchant association is necessary or desirable to hold or maintain common property, that it be created prior to occupancy.
4. Dedications. The conditions may require conveyances of title, licenses, easements or other property interests to the public, to public utilities, or to the homeowners association. The conditions may require construction of public utilities or improvements to public standards and then dedication of public facilities to serve the development and the public.
5. Construction Guarantees. The conditions may require the posting of a bond or other surety or collateral (which may provide for partial releases) to ensure satisfactory completion of all improvements required by the commission.
6. Commitment Letter. The conditions may require a letter from a utility company or public agency legally committing it to serve the development if such service is required by the commission.
7. Covenants. The conditions may require the recording of covenants or other instruments satisfactory to the borough as necessary to ensure permit compliance by future owners or occupants.
8. Design. The conditions may require the adoption of design standards specific to the use and site.

V. CERTIFICATION

I hereby certify that I am the owner or duly authorized owner's agent, that I have read this application and that all information is correct. I further certify that I have read, understand and will comply with all of the provisions and permit requirements outlined hereon. I also certify that the site plan submitted is a complete and accurate plan showing any and all existing and proposed structures on the subject property and that the use will comply with all required conditions and specifications, will be located where proposed and when developed, will be operated according to the plan as submitted. All contract work on this project will be done by a contractor holding valid licenses issued by the State of Alaska and the Haines Borough. **I am aware that if I begin construction prior to receiving permit approval, I will be assessed a $250.00 "After-the-Fact" fee.**

John Samuel M[illegible]
Owner or Agent

5/26/13
Date

PROVISIONS: The applicant is advised that issuance of this permit will not relieve responsibility of the owner or owner's agents to comply with the provisions of all laws and ordinances, including federal, state and local jurisdictions, which regulate construction and performance of construction, or with any private deed restrictions.

Office Use Only Below This Line

☒ Applicant Notified Application is Complete and Accepted 05/28/2013 (Date) In Office (Notified via) XC (Initials)

Non-Refundable Permit Fee $ 150.00 Receipt No. 021230 Received By: TOlsen Date: 5/28/13	Information/Documentation Req'd Rec'd ☐ ☐ State Fire Marshal ☐ ☐ State DEC ☐ ☐ Variance/Conditional Use Permit ☐ ☐ Sign Permit

Zoning	Bldg. Height	Lot Coverage %	Const. Type	Occupancy	# Stories

This application meets all applicable Borough policies and a permit is issued, conditional on the **substantial completion of construction within two** years and the following special requirements:

Planning Commission Chair:	Date:

INCOMPLETE APPLICATIONS WILL NOT BE ACCEPTED

Haines Borough
Planning and Zoning
103 Third Ave. S., Haines, Alaska, 99827
Telephone: (907) 766-2231 * Fax: (907) 766-2716

RECEIVED
MAY 28 2013
HAINES BOROUGH

APPLICATION FOR VARIANCE **Permit#:** _____
Date: _____

Use this form for policy variances for: Building Density, Setbacks, Building Height & Parking Regulations

I. Property Owner*	**Owner's Representative (If Any)**
Name: Stephen Samuel McIhetres	Name:
Mailing Address: PO Box 1192, Haines, AK 99827	Mailing Address:
Contact Phone: Day Night 907-766-3929	Contact Phone: Day Night
Fax:	Fax:
E-mail: bgcshannonl@yahoo.com	E-mail:

II. Property Information

Size of Property: 12,375 sq. ft.

Property Tax #: C-690-03-0300

Street Address: 5 E. Barnett

Legal Description: Lot (s) 3 Block 3 Subdivision _____

OR

Parcel/Tract _____ Section 26 Township 30S Range 59E

[Attach additional page if necessary.]

Zoning: Waterfront ☐ Single Residential ☑ Rural Residential ☐ Significant Structures Area ☐

Rural Mixed Use ☐ Multiple Residential ☐ Heavy Industrial ☐ Waterfront Industrial ☐ Commercial

Industrial Light Commercial ☐ Recreational ☐

III. Description of Work

Type of Application (Check all that apply)	**Project Description** (Check all that apply)	**Water Supply** Existing or Proposed	**Sewage Disposal** Existing or Proposed
☑ Residential	☐ Single Family Dwelling	☒ None	☒ None
☐ Commercial	☐ Change of Use	☐ Community well	☐ Septic Tank
_____ sq. ft.	☐ Multi-Family Dwelling	☐ Private well	☐ Holding Tank
_____ seating capacity if eating/ drinking establishment	Total # of Units ____	☐ Borough Water System	☐ Borough Sewer System
☐ Industrial	☐ Cabin	☐ Other _____	☐ Pit Privy
☐ Church	☐ Addition		☐ Other _____
☐ Other _____	☑ Accessory Structure Carport Canopy		
	☐ Other _____		

Valuation of Work: $2,000 - $2,500

IV. Variance

Applicant seeks a variance from the following general requirement(s):

Code Section #: HBC 18.18.030 (B)

Describe the problem and the minimum variation from code necessary to resolve the problem:

The "grandfathered" shed is located 15 feet from the lot line on the Young Road side. Our proposed carport will canopy the shed and extend toward the house. See attached drawing.

Attach the following documents to the permit application:

☒ Site plan (see Attachment A) showing lot lines, bearings and distances, buildings, setbacks, streets, etc.

PREAPPLICATION *(Recommended)* Pre-application Conference Date: 5/13/13

Sam met with Xi Cui regarding plans

At Least two (2) days before the pre-application conference, submit the following materials to the Planning and Zoning Department:

1. A copy of a plat or other legal description of the property.
2. A sketch of the property showing the features the applicant believes are relevant to the variance request. 5/17/13 - Xi Cui stopped by take pictures and discuss proposal.

APPLICATION

In addition to a site plan (see Attachment A), the applicant must describe how their requested variance complies with each of the following six standards listed in Section 18.80.050 of the Land Use/Development Code. You may use the space provided on this form or attach your answers. A variance may only be granted if the Planning Commission finds that these six standards are met.

1. Except in the Significant Structures Areas, the conditions upon which the variance application is based do not apply generally to properties in the zone or vicinity other than the property for which the variance is sought.

Describe how the problem stated on page one is unique to your property.

We have a shed built on our property before our acquisition of the property. This shed is located 15 feet from the lot line closest to Young Rd. We would like to put a canopy upon eight pilings and over the roof of the shed.

2. Explain how the conditions described above arise out of natural features inherent in the property such as shape or topographical conditions of the property or because of unusual physical surroundings, or such conditions arise out of surrounding development or conditions.

We are the corner lot between Young Rd and Barnett Rd. There is lots of traffic on both roads. A carport, or canopy, will help us protect our vehicle, Control Kids accessories, etc. The current location of the shed does not affect other property.

3. Describe why (because of the conditions you have described) the strict application to the property of the requirements of this chapter will result in an undue, substantial hardship to the owner of the property such that no reasonable use of the property could be made.

Building a carport/canopy, garage or any other structure at any other location on our Barnett Rd. access, would violate other Borough code, particulary since the street fire hydrant is on the opposite lot line.

4. Describe how or why the special conditions that require the variance are not caused by the person seeking the variance, a predecessor in interest, or the agent of either.

5. Describe any reasons not based on costs or inconvenience you have for requesting this variance.

The shed is grandfathered and we would simply like to add structure pilings on the side closest to Young Road. This helps us not deter property value to our neighbors, or create any issues of snow removal, etc. for them/us.

6. The variance can only be granted if the variance will not permit a land use in a zone in which that use is prohibited.

Explain what your property will be used for.

Our carport/canopy will only be used to shelter our vehicle and outdoor equipment.

IV. FEE

A non-refundable fee of $150 must accompany this application. Checks must be made payable to the HAINES BOROUGH.

NOTICE

If a property qualifies for a variance under the Haines Borough Land Use/Development Code Section 18.80.050(D), the variance granted must meet the following conditions:

1. The deviation from the requirement of this chapter that is permitted by variance may be no more than is necessary to permit a reasonable use of the lot;
2. The variance will not permit a land use that is prohibited by this chapter;
3. The variance is in keeping with the spirit and intent of this chapter and the requirements from which relief is sought;
4. The variance will not be detrimental to the public health, safety or welfare; and
5. The variance will not significantly adversely affect other property (i.e., snow will not be deposited on adjacent properties from areas such as roofs).

Notice of Right to Appeal: All decisions of the Borough Manager are appealable per HBC 18.30.050

V. CERTIFICATION

I hereby certify that I am the owner or duly authorized owner's agent, that I have read this application and that all information is correct. I further certify that I have read, understand and will comply with all of the provisions and permit requirements outlined hereon. I also certify that the site plan submitted is a complete and accurate plan showing any and all existing and proposed structures on the subject property. All contract work on this project will be done by a contractor holding valid licenses issued by the State of Alaska and the Haines Borough. **I am aware that if I begin construction prior to receiving permit approval, I will be assessed a $250.00 "After-the-Fact" fee.**

Owner or Agent _____ Date 5/26/13

PROVISIONS: The applicant is advised that issuance of this permit will not relieve responsibility of the owner or owner's agents to comply with the provisions of all laws and ordinances, including federal, state and local jurisdictions, which regulate construction and performance of construction, or with any private deed restrictions.

Office Use Only Below This Line

☒ Applicant Notified Application is Complete and Accepted 05/28/2013 (Date) In Office (Notified via) JC (Initials)

Non-Refundable Building Permit Fee $ 150.00

Receipt No. 021230

Received By: TOlsen

Date: 5/28/13

Information/Documentation

Req'd	Rec'd	
☐	☐	State Fire Marshal
☐	☐	State DEC
☐	☐	Variance/Conditional Use Permit
☐	☐	Sign Permit

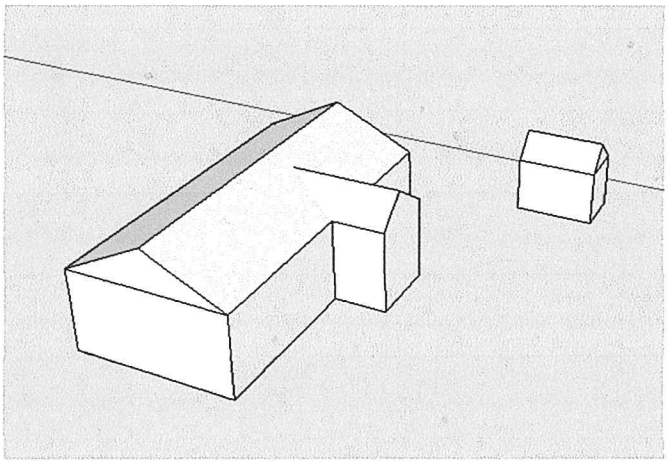
Zoning	Bldg. Height	Lot Coverage %	Const. Type	Occupancy	# Stories

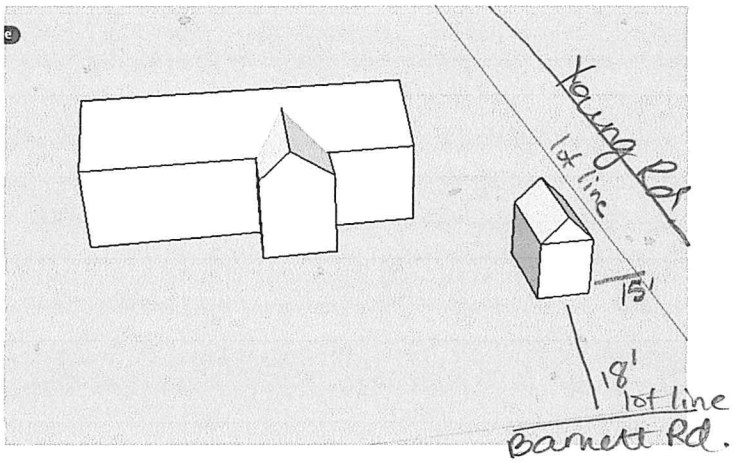
This application meets all applicable Borough policies and a permit is issued, conditional on the **substantial completion of construction within two** years and the following special requirements:

Planning Commission Chair:	Date

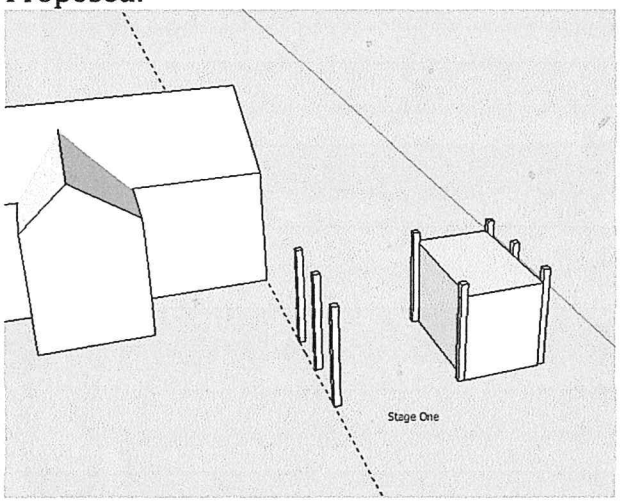
INCOMPLETE APPLICATIONS WILL NOT BE ACCEPTED

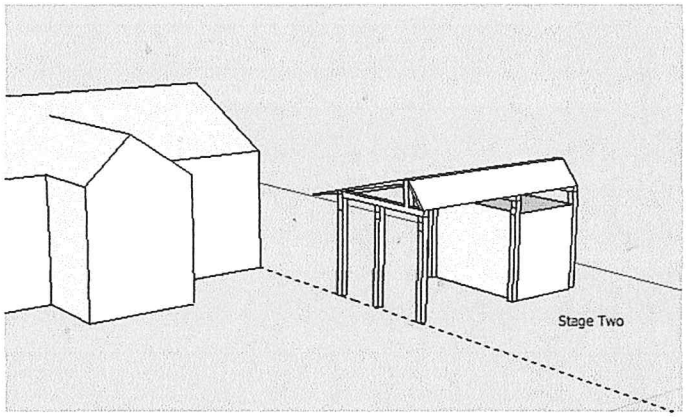
Current Building Layout:

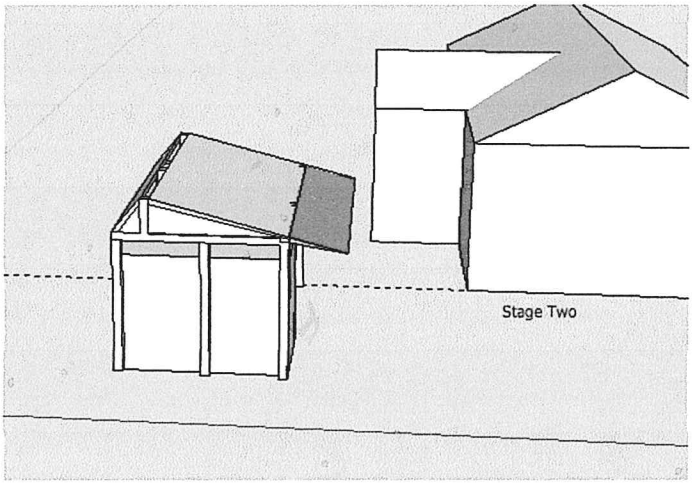


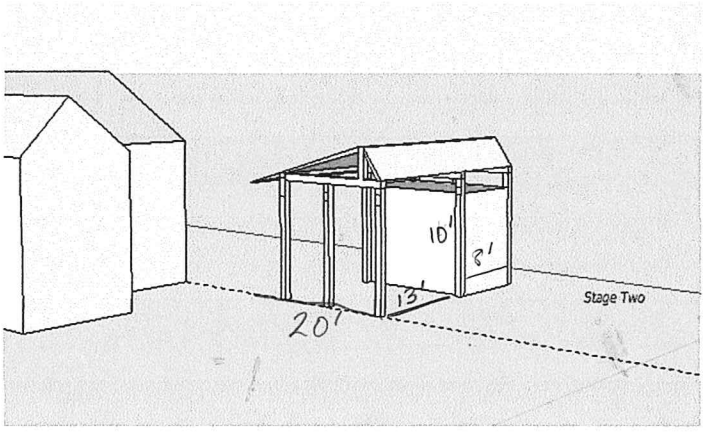


Proposed:

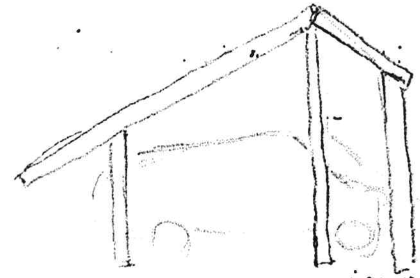


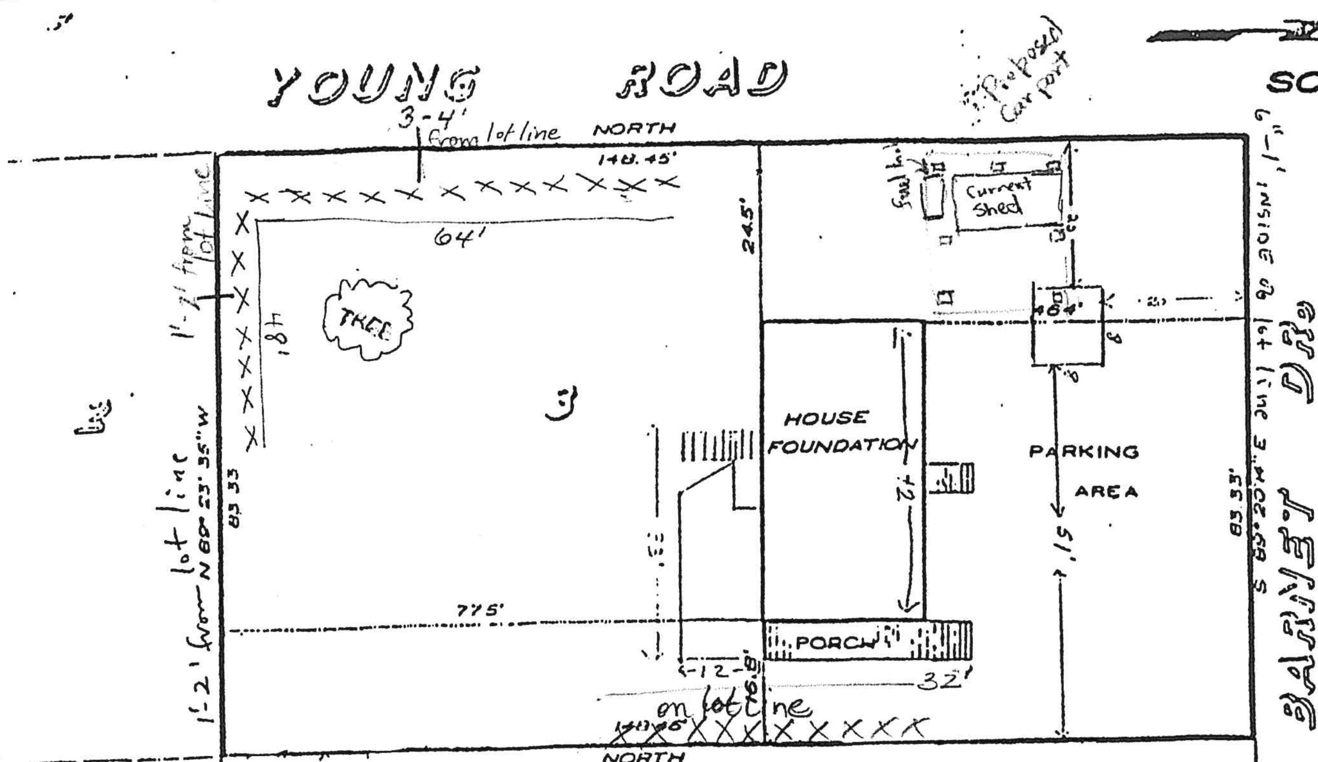






Building over Current shed
Adding towards the house.
Snow will fall beside house (offroad)





Spacklemann
C-690-03-0300
86-19

STATE OF ALASKA
49TH
THOMAS M. KIRCHNER
No. 5713
REGISTERED PROFESSIONAL LAND SURVEYOR

SURVEYOR'S CERTIFICATE

I HEREBY CERTIFY THAT I AM A PROFESSIONAL LAND SURVEYOR, REGISTERED IN THE STATE OF ALASKA AND THAT A SURVEY WAS MADE BY ME OR UNDER MY DIRECT SUPERVISION OF THE PARCEL SHOWN HEREON AND THAT THE SURFACE IMPROVEMENTS SITUATED AS-BUILT ARE WITHIN THE PROPERTY LINES AND DO NOT ENCROACH ON THE ADJACENT PROPERTY. ALSO THERE ARE NO ROADWAYS, TRANSMISSION LINES, OR OTHER VISIBLE EASEMENTS ON SAID PROPERTY, EXCEPT AS INDICATED HEREON.

DATE: Sept 19, 1984

AS-BUILT SURVEY
LOT 3
OF LOT 3, USS 690
HAINES, ALASKA

DATE: 7/18/84 JOB: A101-42

DRAWN BY: K.A.M.

ALASKA LAND SURVEYING CO.


Construction of a 20' by 21' Carport over an Existing Woodshed
Conditional Use & Variance Proposal
Haines Borough Planning Commission
Public Hearing June 13, 2013
6:30 p.m. Haines Borough Assembly Chambers
Oslund Rd
Barnett Dr
Young Rd
Mathias Ave
0 30 60 120 180 240
Feet

HAINES BOROUGH, ALASKA
P.O. BOX 1209
HAINES, AK 99827
(907) 766-2231 FAX (907) 766-2716

June 3, 2013

«First_Name» «Last_Name»
«Address»
«City», «State» «Postal_code»

Re: Stephen Samuel McPhetres – Conditional Use & Variance
C-690-03-0300, 5 Barnett Dr. East

Dear Land Owner,

Haines Borough records show that you own property in the vicinity of the above listed property, which is owned by Stephen Samuel McPhetres. (Please see enclosed map.) The property owner has applied for conditional use & variance permit to allow the construction of a carport over an existing woodshed to be built within Haines Borough Code requirement of a 15' separation from an adjacent building and a 20' setback from street lot lines. This is on the agenda of the next Planning Commission meeting. The meeting will be held at the Haines Borough Assembly Chambers on June 13, 2013 at 6:30 p.m. As an owner of property in proximity to this development you are being notified that you are invited to attend and comment at the meeting. If you have any questions on the matter please contact the Borough.

Sincerely,

Xi Cui "Tracy"
Haines Borough Planning and Zoning Tech III
xcui@haines.ak.us
(907) 766-2231 Ext. 23

First Name	Last Name	ADDRESS	CITY	STATE	ZIP
ALICE O.	DALY	BOX 55	HAINES	AK	99827
BEVERLY RUTH	WILSON	BOX 1472	HAINES	AK	99827
BRIAN/SARAH	ELLIOTT	BOX 391	HAINES	AK	99827
DANIEL/BECKY	GONCE	BOX 644	HAINES	AK	99827
DENNIS/ANN	JACOBS	4264 BILLINGS RD.	AGNESS	OR	97406-9714
ELZA A.	THOMPSON	P.O. BOX 23156	JUNEAU	AK	99802
Estate RICHARD	WARREN, SR.	P.O. BOX 373	HYDABURG	AK	99922
GLEN	MIELKE	BOX 975	HAINES	AK	99827
KAREN/OLE,III	TAUG	P.O. BOX 34555	JUNEAU	AK	99803
NANCY	HOTCH	BOX 33	HAINES	AK	99827
RALPH	BORDERS	BOX 501	HAINES	AK	99827
SHORI A.	LONG	BOX 291	HAINES	AK	99827
STANLEY/JOANN	WOOD	BOX 348	HAINES	AK	99827
STEPHEN SAMUEL	McPHETRES	BOX 1192	HAINES	AK	99827
STEVEN MICHAEL	DALY	BOX 55	HAINES	AK	99827
THOMAS	BINDER	BOX 352	HAINES	AK	99827
WILLIAM	HARTMANN	667 W. COTTONWOOD DR.	WALKER LAKE	NV	89415-9762

18.80.030 Setbacks and height.
B. Height is measured from the average grade of the footprint of the structure to the highest point on the structure, measured at the center of each of the four exterior walls.

Setbacks and Height Restrictions by Zone								
Zoning District	Height Limit (in feet)	Industrial Setbacks (in feet) ***		Commercial Setbacks (in feet)		Residential Setbacks (in feet)		
		From Street Lot Lines	From Residential Lots	From Street or Alley Lot Lines	From Other Lot Lines	From Street Lot Lines	From Alley Lot Lines	From Other Lot Lines
SR	30	N/A	N/A	N/A	N/A	20	10	10

The distance between unattached buildings must be 15 feet unless approved as a conditional use by the planning commission. Building separation is intended for public safety; fire-related concerns must meet the approval of both the state fire marshal and local fire department.

Chapter 18.50
CONDITIONAL USE
18.50.040 Decision.

The commission shall hold a public hearing on the conditional use permit application. The commission may adopt the manager's recommendation on each requirement unless it finds, by a preponderance of the evidence, that the manager's recommendation was in error and states its reasoning for such finding with particularity. In addition, for good cause, the commission may alter the conditions on approval or requirements for guarantees recommended by the manager.

A. Before a conditional use permit is approved, the commission must find that each of the following requirements is met:

1. The use is so located on the site as to avoid undue noise and other nuisances and dangers;
2. The development of the use is such that the value of the adjoining property will not be significantly impaired;
3. The size and scale of the use is such that existing public services and facilities are adequate to serve the proposed use;
4. The specific development scheme of the use is consistent and in harmony with the comprehensive plan and surrounding land uses;
5. The granting of the conditional use will not be harmful to the public safety, health or welfare;
6. The use will not significantly cause erosion, ground or surface water contamination or significant adverse alteration of fish habitat on any parcel adjacent to state-identified anadromous streams;
7. The use will comply with all required conditions and specifications if located where proposed and developed, and operated according to the plan as submitted and approved;
8. Comments received from property owners impacted by the proposed development have been considered and given their due weight.

If the commission finds that the development implements all relevant requirements of this title, it shall issue a conditional use permit and the conditions and requirements shall be part of the approved permit. If the development does not implement all relevant requirements, or the commission otherwise determines the development is not in compliance with this title, the commission shall deny the permit and note with particularity its reasons for the decision.

B. The commission may alter the manager's proposed permit conditions, impose its own, or both. Conditions may include one or more of the following:

1. Development Schedule. The conditions may place a reasonable time limit on construction activity associated with the development, or any portion thereof, to minimize construction-related disruption to traffic and neighbors, to ensure that lots are not sold prior to substantial completion of required public improvements, or to implement other requirements.
2. Use. The conditions may restrict the use of the development to specific uses indicated in the approval.
3. Owner's Association. The conditions may require that if a developer, homeowner or merchant association is necessary or desirable to hold or maintain common property, that it be created prior to occupancy.
4. Dedications. The conditions may require conveyances of title, licenses, easements or other property interests to the public, to public utilities, or to the homeowners association. The conditions may require construction of public utilities or improvements to public standards and then dedication of public facilities to serve the development and the public.
5. Construction Guarantees. The conditions may require the posting of a bond or other surety or collateral (which may provide for partial releases) to ensure satisfactory completion of all improvements required by the commission.
6. Commitment Letter. The conditions may require a letter from a utility company or public agency legally committing it to serve the development if such service is required by the commission.
7. Covenants. The conditions may require the recording of covenants or other instruments satisfactory to the borough as necessary to ensure permit compliance by future owners or occupants.
8. Design. The conditions may require the adoption of design standards specific to the use and site.

Chapter 18.80.050
Variance

Setbacks: The intent of setback regulation is to allow for a certain amount of privacy and outdoor living space around a structure, promote fire safety, prevent snow depositing on adjacent properties, allow room for snow removal, promote safe conditions for off-street parking and vehicular access to public rights-of-way, and provide an adequate sight triangle for the safe approach of vehicles to intersections.

C. Variance Standards. A variance may be granted only if:
1. Except for significant structures areas, the conditions upon which the variance application is based do not apply generally to properties in the zone or vicinity other than the property for which the variance is sought; and

2. Such conditions arise out of natural features inherent in the property such as shape or topographical conditions of the property or because of unusual physical surroundings, or such conditions arise out of surrounding development or conditions; and
3. Because of such conditions the strict application to the property of the requirements of this chapter will result in an undue, substantial hardship to the owner of the property such that no reasonable use of the property could be made; and
4. The special conditions that require the variance are not caused by the person seeking the variance, a predecessor in interest, or the agent of either; and
5. The variance is not sought solely to relieve financial hardship or inconvenience; and
6. The variance will not permit a land use in a zone in which that use is prohibited.

D. Conditions on Approval. If a property qualifies for a variance under this section, the variance granted must meet the following conditions:
1. The deviation from the requirement of this chapter that is permitted by variance may be no more than is necessary to permit a reasonable use of the lot;
2. The variance will not permit a land use that is prohibited by this chapter;
3. The variance is in keeping with the spirit and intent of this chapter and the requirements from which relief is sought;
4. The variance will not be detrimental to the public health, safety or welfare; and
5. The variance will not significantly adversely affect other property (i.e., snow will not be deposited on adjacent properties from areas such as roofs).

E. Issuance or Denial. The commission shall, after notice and hearing, from the evidence presented to it, make written findings of fact which support the standards set forth above (in the case where a variance is granted) or which show that the evidence does not support the standards set forth above (in the case where the variance is not granted). Such written findings shall be permanently retained within the minutes of the meeting at which the findings were drafted. (Ord. 11-03-259 § 7)

HAINES BOROUGH, ALASKA **Draft**

ORDINANCE No. xx-xx-xxx

AN ORDINANCE OF THE HAINES BOROUGH AMENDING HAINES BOROUGH CODE TITLE 18 SECTION 18.90.060(D) & (I) TO ALLOW TRAFFIC CONTROL, PARKING, DIRECTIONAL OR INFORMATIONAL SIGNS OR DEVICES THAT DO NOT EXCEED 32 SQUARE FEET, AND SMALL INFORMATIONAL SIGNS RELATED TO THE OPERATION OF A BUSSINESS, SUCH AS "OPEN/CLOSED" OR CREDIT CARD SIGNS THAT DO NOT FLASH OR BLINK, TO BE EXEMPTED FROM SIGN REGULATIONS.

BE IT ENACTED BY THE HAINES BOROUGH ASSEMBLY:

Section 1. Classification. This ordinance is of a general and permanent nature and the adopted amendment shall become a part of the Haines Borough Code.

Section 2. Severability. If any provision of this ordinance or any application thereof to any person or circumstance is held to be invalid, the remainder of this ordinance and the application to other persons or circumstances shall not be affected thereby.

Section 3. Effective Date. This ordinance shall become effective immediately upon adoption.

Section 4. Purpose. This ordinance amends Title 18 Section 18.90.060(D)&(I) to allow traffic control, parking, directional or informational signs or devices, not exceeding 32 square feet, and non-flashing or blinking, small information signs related to the operation of a business to be exempted from sign regulations.

NOTE: **Bolded**/UNDERLINED ITEMS ARE TO BE ADDED
~~STRIKETHROUGH~~ ITEMS ARE DELETED

18.90.060 Signs exempt from regulation under this chapter.

The following signs shall be exempt from regulation under this chapter, provided these signs, if placed on private property, conform to the setback and placement standards set forth in HBC 18.90.050:

D. Traffic control, parking, directional or informational signs or devices, **not exceeding 32 square feet,** provided they contain no commercial message;

I. Small informational signs related to the operation of a business, such as "Open/Closed" or credit card signs~~;~~ **that do not flash or blink;**

HBC 18.80.030 Setbacks and height.

A. Setbacks are measured from the outermost portion of the building to the nearest lot line or building as appropriate. Incidental architectural features such as window sills, cornices and eaves may not project into any required setback. This exemption also applies to cantilevered floors, decks or other similar building extensions. No building or structures may be located within a setback, except that fences may be constructed within the required setback by permit. The following items shall be exempt from setback requirements, provided the item is located to achieve its purpose without constituting a hazard to vehicles or pedestrians, is located such that it does not obscure sight angles at intersections or driveways, and is not in any location prohibited by state regulation:

1. Driveways and culverts that meet Chapter 12.08 HBC;
2. Parking areas that meet Chapter 10.44 HBC;
3. Satellite dishes;
4. Signs that meet Chapter 18.90 HBC; and
5. French drains, culverts, or similar infrastructure.

Where more than one setback standard is applicable, the most restrictive setback standard applies.

B. Height is measured from the average grade of the footprint of the structure to the highest point on the structure, measured at the center of each of the four exterior walls.

Setbacks and Height Restrictions by Zone

Zoning District	Height Limit (in feet)	Industrial Setbacks (in feet) ***		Commercial Setbacks (in feet)		Residential Setbacks (in feet)		
		From Street Lot Lines	From Residential Lots	From Street or Alley Lot Lines	From Other Lot Lines	From Street Lot Lines	From Alley Lot Lines	From Other Lot Lines
I/H	30 *	0	50	0	0	N/A	N/A	N/A
I/L/C	30	0	50	0	0	20	10	10
I/W	30	0	50	0	0	20	10	10
C	30	0	50	0	0	20	10	10
W	30	0	50	0	0	20	10	10
SSA	30 **	N/A	N/A	10	5	20	10	10
SR	30	N/A	N/A	N/A	N/A	20	10	10
MR	30	N/A	N/A	0	0	20	10	10
RR	30	N/A	N/A	0	0	20	10	10
RMU	30	0	50	0	0	20	10	10
MU	30	0	50	0	0	20	10	10
REC	30	N/A	N/A	N/A	N/A	20	10	10

* May exceed 30 feet only by provisions of a conditional use permit granted by the planning commission.

** May be up to 40 feet under the provisions of a conditional use permit granted by the planning commission, but only if for a replica building replacing a building of that height that has been destroyed, and if all special provisions of the historic district and all other provisions of this title are met.

*** As long as all requirements of the state fire code or other applicable regulations are met.

Buildings constructed to zero lot line must be designed so that snow falling from the roof is not deposited on adjacent properties.

The distance between unattached buildings must be 15 feet unless approved as a conditional use by the planning commission. Building separation is intended for public safety; fire-related concerns must meet the approval of both the state fire marshal and local fire department.

Setbacks from anadromous fish streams: See HBC 18.60.010(P).

Between Second Avenue and the intersection of Union Street and Main Street, all structures must be set back 20 feet from lot lines adjacent to Union Street. Due to its historical nature, Block 16, Haines Townsite Subdivision shall have special setbacks. All structures built within Block 16 must be set back a minimum of 10 feet from any property lines not abutting Union Street.

If a publicly owned road easement exists inside of a property line, the setback shall be measured from the easement line and not the property line.

If a public utility easement exists inside of a property line, the setback shall be measured from the easement rather than the property line and shall be not less than 10 feet unless a variance is granted by the planning commission.

HBC 18.20.020 Definitions:

"Guest house" means a secondary dwelling not larger than 800 square feet of gross building area used primarily for guests, family, or transient occupancy.

"Single-family dwelling" means a structure situated on a permanent foundation which is intended for habitation by a single family. This definition does not include a mobile home.

"Temporary use" means a building or structure that is capable of being immediately moved, or a use which is for a limited time up to six months.

"Mobile home" means a factory-assembled residence in which a chassis is an integral part of the structure. A mobile home shall continue to be classified as such regardless of its actual placement on concrete or other permanent foundation or removal of wheels, or addition of base skirts, or any combination of the foregoing. A travel trailer or recreational vehicle is not a mobile home.

Recreational Vehicle (RV). See "Motor home" and "Trailer".

"Motor home" means a motorized vehicle with self-contained living quarters intended for recreational purposes.

"Trailer" means a vehicular-type portable structure without motive power or a permanent foundation, which is meant to be towed or hauled by a motorized vehicle and is primarily designed as temporary living accommodations for recreational, camping and travel use. The term includes travel trailers, truck campers, fifth-wheel trailers and camping trailers.

HBC 18.60.020

H. Temporary Residence. Persons desiring to place a temporary residence, or a trailer or mobile home outside of a mobile home or RV park for a temporary or interim occupancy, shall apply for a temporary residence permit. Permits for seven days or less will be at no charge and will not require connection to or payment for public water and sewer. Temporary residences remaining over 30 days will require a land use permit and where applicable, the standard monthly water and sewer charges will be levied, except by prior arrangement with the borough.

Temporary residence permits may be granted for a period of one year. One six-month extension of the temporary residence/trailer permit may be granted by the planning commission as long as the developer is complying with all requirements. Any temporary residence, trailer, recreational vehicle or mobile home being occupied by a person must be connected to public water and sewer and may be required to connect to the local electrical service. Garbage disposal facilities are required. A minimum of one off-street parking space will be required for a temporary residence. The area surrounding the temporary residence/trailer shall be kept in a clean and sanitary condition.

THE STATE of ALASKA
GOVERNOR SEAN PARNELL

Department of Transportation and Public Facilities

SOUTHEAST REGION
DESIGN & ENGINEERING SERVICES
Preconstruction

6860 Glacier Highway
PO Box 112506
Juneau, Alaska 99811-2506
Main: 907.465.4444
Toll free: 800.575-4540
Fax: 907.465.4414

May 17, 2013

Mr. Mark Earnest, Borough Manager
PO Box 1209
Haines, AK 99827

RE: Federal Project No. NH-SHAK-CA-EBL-CM-STP-0956(28) - State Project No. 68606
Haines Highway MP 3.5-12

Dear Mr. Earnest:

We are submitting the enclosed plans for your review and comment. In addition to a general review, please specifically review for compliance in accordance with AS 35.30.020.

Under AS 35.30.020, the Department must comply with local planning and zoning ordinances and other regulations in the same manner and to the same extent as other landowners. If you believe that the Department's construction of this project would result in a violation of planning, zoning, or other regulations generally applicable to landowners, please identify the portions of the project that would be in violation, and the specific planning, zoning, or other regulations that you believe would be violated.

If we have not received comments regarding the project's compliance with planning and zoning ordinances within 90 days after submittal of these plans, the Department will proceed with the project as planned. If you have any questions, I can be reached by phone at: (907) 465-2393, or by e-mail at: greg.lockwood@alaska.gov.

Sincerely,

Greg Lockwood
DOT&PF Project Manager

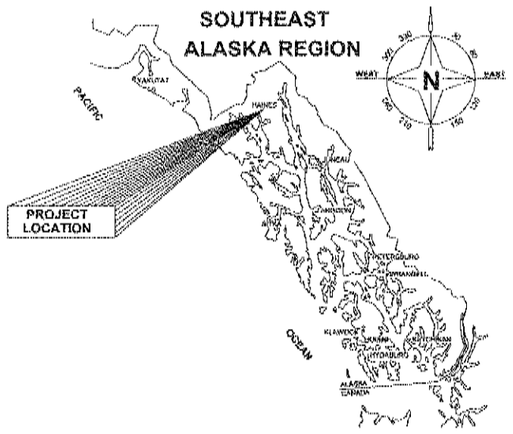
Enc: Preliminary Project Plans (2 sets)

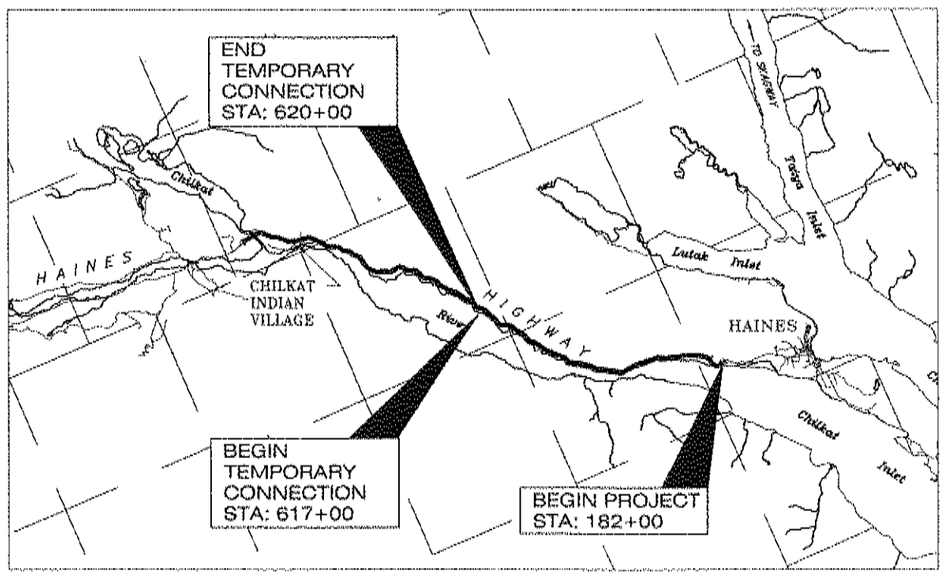
State of Alaska

Department of Transportation and Public Facilities Southeast Region

HAINES, ALASKA
HAINES HIGHWAY

MP 3.5 TO MP 12
NH-SHAK-CA-EBL-CM-STP-0956(28) ~ 68606





VICINITY MAP

DESIGN DESIGNATION

A.D.T. 2010	=	620
A.D.T. 2032	=	700
D.H.V. (10.7%) 2010	=	100
D.H.V. (10.7%) 2032	=	100
% T	=	9.6
V	=	55
E.A.L.	=	350,000

PROJECT SUMMARY

CDS ROUTE NO.	=	296000
CDS MILEPOINT	=	2.934 to 12.75
LENGTH OF PROJECT	=	8.3 Miles
LENGTH OF TEMPORARY CONNECTIONS	=	300 FT
LENGTH OF PAVING	=	8.3 Miles
WIDTH OF PAVING	=	36 FT

THE FOLLOWING STANDARD DRAWINGS APPLY TO THIS PROJECT:

A-1	D-07.00	G-10.01	M-13.01	S-01.00	S-20.10
C-04.12	E-09.00	G-13.00	M-16.01	S-05.01	S-30.03
D-01.02	E-13.00	G-20.10	M-20.12		
D-04.21	G-00.01	G-28.00	M-23.12		
D-06.10	G-04.065	I-81.00	S-00.10		

105

PH
05/16/13

INDEX

PLANS IN HANDS SET

MAY 16 2013

PATH: S:\LIB\D59119 HNS DSN\050 DESIGN DRAWINGS\PLAN SET MP 3.5-12\A-C SHEETS\A1.DWG TAB:A1
Tuesday, December 18, 2012 10:58:41 AM
PLOT: PSPACE OR MSPACE: 1=1(F)

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SOUTHEAST REGION

STATE OF ALASKA
49TH
Steven K. Noble
CE-10061
REGISTERED PROFESSIONAL ENGINEER

APPROVED:

REGIONAL PRE-CONSTRUCTION ENGINEER — DATE
CHUCK CORREA, P.E.

APPROVED:

DIRECTOR, SOUTHEAST REGION — DATE
ALBERT H. CLOUGH, CPG

CERTIFIED TRUE & CORRECT AS-BUILT OF ACTUAL FIELD CONDITION:

CONSTRUCTION PROJECT MANAGER — DATE

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	NH-SHAK-CA-EBL-CM-STP-0956(28) ~ 68606	2013	A1	93

HAINES HIGHWAY ALIGNMENT LAYOUT

DESC	START STATION	NORTHING	EASTING	TANGENT DISTANCE	TANGENT BEARING	NORTHING CENTER	EASTING CENTER	RADIUS	LENGTH	DELTA
BOP	182+00.00	501312.16	699936.70	220.17	S 84° 55' 16" W					
PC	184+20.17	501218.88	698737.29			502283.09	698239.26	1175.00	2180.362	106° 20' 59"
PT	206+01.13	502104.76	697077.87	801.23	N 06° 43' 45" W					
PC	214+02.35	502896.71	696956.27			502735.07	696903.60	1066.00	834.694	44° 54' 20"
PT	222+37.05	503592.67	696630.07	1148.28	N 53° 38' 46" W					
PC	233+86.33	504274.11	696609.80			501071.81	693261.53	3977.00	825.156	11° 53' 16"
PT	242+11.49	504891.19	694698.33	1991.36	N 65° 31' 22" W					
PC	261+92.83	505512.12	693096.05			501252.73	691158.90	4580.00	850.527	10° 24' 48"
PT	270+43.36	505792.43	692294.28	540.80	N 75° 56' 08" W					
PC	275+90.26	506920.34	691753.78			515625.57	694103.91	10000.00	747.375	04° 16' 56"
PT	283+37.64	506133.87	691046.28	2106.97	N 71° 39' 12" W					
PC	306+24.60	506622.25	688970.49			507981.25	689348.18	1200.00	266.963	12° 43' 39"
PT	307+91.17	506033.45	688728.91	872.05	N 58° 59' 33" W					
PC	316+63.22	507383.56	687981.89			505931.79	687107.03	1695.00	825.087	27° 53' 25"
PT	324+88.30	507824.17	687201.16	2943.62	N 86° 48' 58" W					
PC	354+31.99	507767.68	684262.03			510283.80	684400.87	2500.00	404.693	09° 16' 30"
PT	358+36.68	507642.07	683861.54	283.62	N 77° 32' 29" W					
PC	361+20.50	507903.90	683584.40			505206.90	682966.97	2760.00	696.362	15° 38' 30"
PT	370+16.86	507953.01	682693.30	2211.68	S 83° 51' 01" W					
PC	392+28.78	507715.06	680494.16			506661.44	680378.75	1162.00	847.037	42° 07' 41"
PT	400+75.79	507828.19	679693.97	1263.48	N 54° 01' 17" W					
PC	413+38.27	508671.46	678871.51			506074.62	676786.29	3209.00	454.913	08° 07' 20"
PT	417+94.18	508911.77	678299.76	1277.55	N 62° 08' 38" W					
PC	440+71.73	509975.97	676272.07			511921.04	677300.03	2200.00	811.754	21° 08' 27"
PT	448+83.49	510477.82	675639.74	945.55	N 41° 00' 10" W					
PC	458+29.13	511181.26	675019.30			508896.12	672151.53	3800.00	750.131	11° 18' 37"
PT	465+79.26	511705.30	674474.64	1233.75	N 52° 19' 48" W					
PC	478+13.05	512459.57	673498.27			509107.06	670135.88	5500.00	870.511	09° 09' 44"
PT	486+92.06	512939.43	672762.32	1254.30	N 61° 29' 32" W					
PC	499+46.85	513536.40	671680.28			514474.12	672168.85	1069.00	868.963	46° 36' 30"
PT	508+13.82	514201.46	671139.35	210.10	N 14° 50' 02" W					
PC	510+23.91	514404.56	671085.56			514047.41	669737.05	1395.00	914.073	37° 34' 48"
PT	519+38.00	515152.05	670587.94	216.04	N 52° 24' 50" W					
PC	521+54.83	515284.64	670418.73			517876.91	672411.28	3270.00	778.637	13° 38' 29"
PT	529+31.57	515626.05	669963.05	881.37	N 38° 46' 21" W					
PC	537+92.94	516497.80	669323.25			512424.45	664257.97	5500.00	1197.368	10° 33' 17"
PT	549+90.33	517356.80	668491.40	256.84	N 46° 21' 38" W					
PC	552+46.27	517523.49	668297.19			519168.62	669709.20	2160.00	625.358	21° 46' 45"
PT	558+71.62	518186.94	667787.00	458.16	N 27° 32' 53" W					
PC	565+27.79	518570.38	667576.03			515708.84	662090.49	6197.00	826.132	07° 38' 29"
PT	573+52.92	519274.39	667146.83	631.98	N 35° 11' 22" W					
PC	579+84.90	519780.88	666782.65	330.04	N 45° 22' 14" W	517114.08	662986.49	4645.00	625.362	10° 10' 52"
PT	588+10.29	520419.74	666249.70							
PC	591+40.33	520651.59	666014.82			522074.92	667419.86	2000.00	1024.005	29° 20' 15"
PT	601+64.40	521522.53	665497.65	404.27	N 16° 01' 59" W					
PC	605+68.67	521811.08	665388.00			521027.27	663310.47	3200.00	1581.7	28° 19' 13"
PT	621+50.37	523264.33	664598.61	541.74	N 44° 21' 12" W					

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

CHECKED BY: K. KILPATRICK

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION

STATE OF ALASKA 49th
STEVEN K. NOBLE
CE-10881
REGISTERED PROFESSIONAL ENGINEER

HAINES HIGHWAY
MP 3.5 TO MP 12
PROJECT #68606

ALIGNMENT LAYOUT

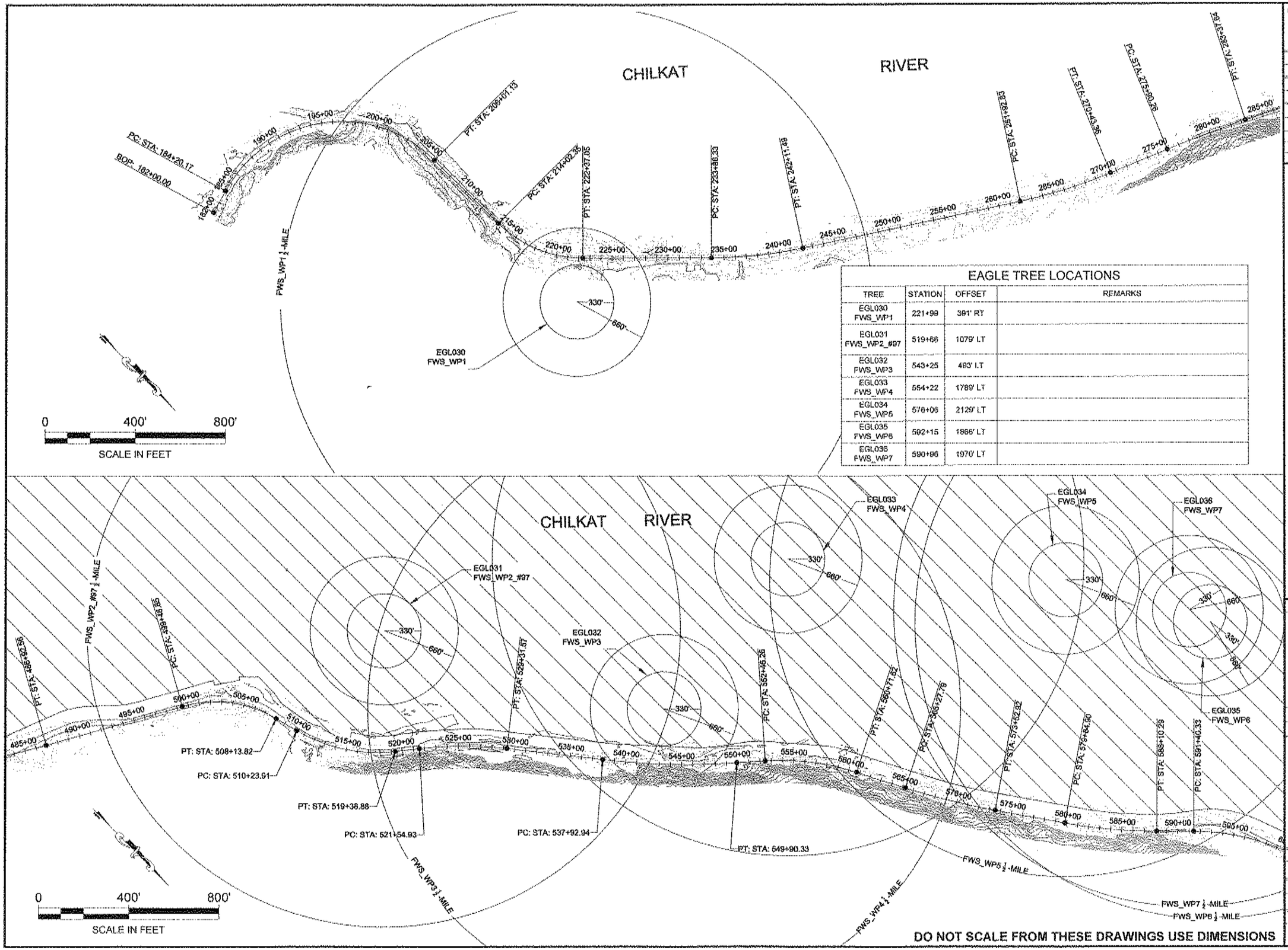
DESIGNED BY: S. NOBLE
DRAWN BY: N. HOBBS

PATH: S:\JOB\D59118 HNS DSN\050 DESIGN DRAWINGS\PLAN SET MP 3.5-12\A-C SHEETS\A2.DWG
TAB: A2 Wednesday, May 15, 2013 1:44:28 PM SIMS, CANDY

PH
05/16/13

REVISIONS NO.	DATE	DESCRIPTION

PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
68606	2013	A2	93



PATH: S:\LIB\D58119 HNS DBN\050 DESIGN DRAWINGS\PLAN SET MP 3.5-12\A-C SHEETS\A3.DWG
SIMS, CANDY
TAG: A3 Wednesday, May 15, 2013 1:42:21 PM

ADDENDUM NUMBER

ATTACHMENT NUMBER

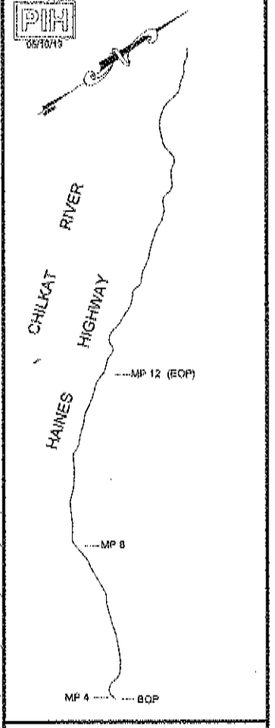
RECORD OF REVISIONS

No.	DATE	DESCRIPTION

EAGLE TREE LOCATIONS

TREE	STATION	OFFSET	REMARKS
EGL030 FWS_WP1	221+99	391' RT	
EGL031 FWS_WP2_#97	519+68	1079' LT	
EGL032 FWS_WP3	543+25	493' LT	
EGL033 FWS_WP4	554+22	1789' LT	
EGL034 FWS_WP5	576+06	2129' LT	
EGL035 FWS_WP6	592+15	1866' LT	
EGL036 FWS_WP7	590+96	1970' LT	

PIH 05/10/13



CHECKED BY: K. KILPATRICK

STATE OF ALASKA 49th
STEVEN K. NOBLE CE-10051 REGISTERED PROFESSIONAL ENGINEER

DESIGNED BY: N. HOBBS

DRAWN BY: J. KEMP

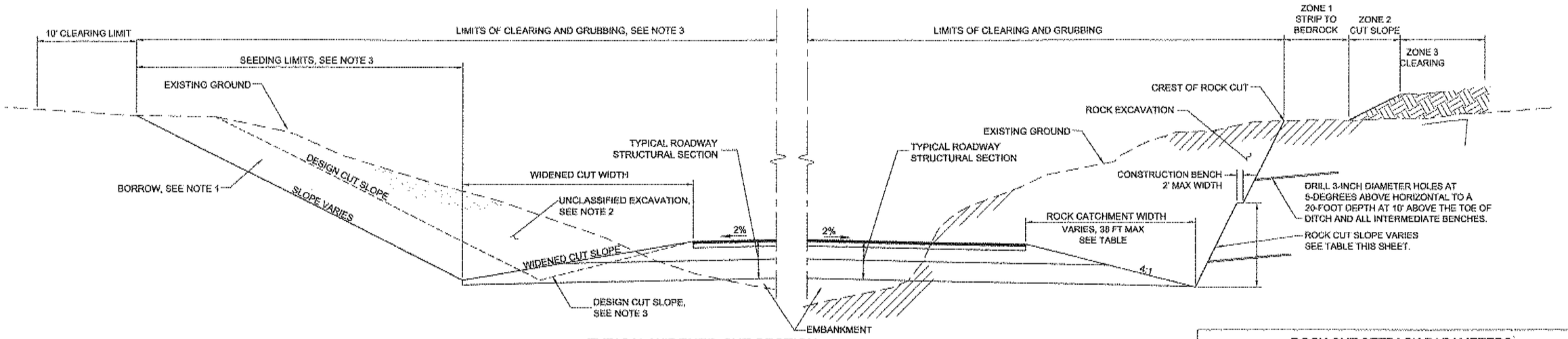
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SOUTHEAST REGION

HAINES HIGHWAY
MP 3.5 TO MP 12
PROJECT #68606

EAGLE TREE LOCATIONS

PROJECT DESIGNATION	
68606	
STATE	YEAR
ALASKA	2013
SHEET NUMBER	TOTAL SHEETS
A3	93

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS



TYPICAL WIDENED CUT SECTION AS A BORROW SOURCE

TYPICAL ROCK CUT SECTION

NOTES:
1. AT THE CONTRACTOR'S OPTION, ADDITIONAL ROCK OR SOIL BORROW MAY BE OBTAINED FROM CUTS WITHIN THE EXISTING HAINES HIGHWAY RIGHT-OF-WAY AS APPROVED BY THE ENGINEER. APPROVAL OF THE CONTRACTOR PROVIDED QUARRY DEVELOPMENT AND RECLAMATION PLAN IS REQUIRED BEFORE WORK BEGINS.
2. UNCLASSIFIED EXCAVATION MEASURED FOR PAYMENT WILL BE LIMITED TO MATERIAL WITHIN THE PLANNED DESIGN CUT. EXCAVATED MATERIAL OUTSIDE THE PLANNED DESIGN CUT WILL BE CONSIDERED BORROW.
3. WITH THE EXCEPTION OF EXCAVATION, ALL OTHER QUANTITY CHANGES RESULTING FROM THE WIDENED CUT WILL BE MEASURED FOR PAYMENT UNDER THEIR RESPECTIVE PAY ITEMS.

ROCK CUT SETBACK PARAMETERS

ZONE	DESCRIPTION
1	EXCAVATE ALL OVERBURDEN SOILS TO BEDROCK.
	HORIZONTAL WIDTH MAY BE REDUCED FROM 10 FEET WHEN APPROVED BY THE ENGINEER.
2	FOR OVERBURDEN SOILS LESS THAN 3 FEET IN VERTICAL DEPTH, SLOPES MAY BE CUT AT 1H:1V AND SEEDED.
	FOR OVERBURDEN SOILS GREATER THAN 3 FEET IN VERTICAL DEPTH, SLOPES ARE TO BE CUT AT 2H:1V AND SEEDED WHERE PRACTICABLE.
	FOR OVERBURDEN SOILS GREATER THAN 3 FEET IN VERTICAL DEPTH WHERE THE CUT SLOPE DOES NOT CATCH AT 2H:1V, USE APPROVED SLOPE STABILIZATION METHODS.
3	CLEAR ALL TREES TO THE SPECIFIED CLEARING LIMITS, OR 10 HORIZONTAL FEET FROM THE DAYLIGHT OF THE ZONE 2 CUT, WHICHEVER IS GREATER.
	LEAVE STUMPS AND ORGANIC MAT IN PLACE
	MINIMUM EXTENT OF ZONE 3 IS 30 FEET FROM CREST OF ROCK CUT.

FORESLOPE/DITCH WIDTH MODIFICATION TABLE

FROM STATION	TO STATION	OFFSET	FORESLOPE / DITCH WIDTH	REMARKS
278+50	281+00	RT	20'	REMOVE TALUS AT STA 278+50
304+50	306+00	RT	25'	AVOID SLIVER CUT
309+00	310+50	RT	25'	AVOID SLIVER CUT
353+50	354+50	RT	15'	AVOID SLIVER CUT: 20' AT STA 354+50
356+50	359+00	RT	20'	ROCK CATCHMENT
376+75	377+25	RT	17'	AVOID SLIVER CUT
542+00	545+50	RT	20'	ROCK CATCHMENT
552+00	552+50	RT	20'	AVOID SLIVER CUT
563+00	565+00	RT	30'	ROCK CATCHMENT
566+00	567+50	RT	30'	ROCK CATCHMENT
570+00	571+50	RT	25'	ROCK CATCHMENT; 38' AT STA 571+50
573+00	575+50	RT	25'	ROCK CATCHMENT
577+25	577+75	RT	25'	ROCK CATCHMENT
586+00	586+50	RT	20'	ROCK CATCHMENT
586+25	587+00	RT	30'	ROCK CATCHMENT
587+25	587+50	RT	20'	ROCK CATCHMENT
587+75	588+00	RT	30'	ROCK CATCHMENT

ROCK CUT SLOPE TABLE

FROM STATION	TO STATION	OFFSET	ROCK CUT SLOPE	REMARKS
198+00	203+00	RT	0.5:1	
278+50	281+00	RT	0.75:1	
304+50	306+00	RT	0.5:1	
309+00	310+50	RT	0.5:1	
353+50	354+50	RT	0.5:1	
356+50	359+00	RT	0.75:1	
376+75	377+25	RT	0.5:1	
409+50	410+50	RT	1:1	
423+50	426+50	RT	0.75:1	
522+00	524+00	RT	1.25:1	
541+50	545+50	RT	0.75:1	
551+00	552+50	RT	0.5:1	
558+50	560+00	RT	0.5:1	
562+00	567+50	RT	1:1	
570+00	571+50	RT	1:1	
573+00	575+50	RT	1:1	
577+25	577+75	RT	1:1	
586+00	588+00	RT	0.75:1	

LEGEND

1. 2" ASPHALT CONCRETE, TYPE II, CLASS B
2. STE-1 ASPHALT FOR TACK COAT
3. 4" ASPHALT TREATED BASE COURSE, TWO 2-INCH LIFTS
4. 12" SUBBASE, GRADING C
5. 18" USEABLE EXCAVATION MEETING REQUIREMENTS OF SELECTED MATERIAL, TYPE A
6. BORROW OR USEABLE EXCAVATION MEETING REQUIREMENTS OF SELECTED MATERIAL, TYPE B

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

CHECKED BY: K. KILPATRICK

STATE OF ALASKA 49th — STEVEN K. NOBLE — CE-10051 — REGISTERED PROFESSIONAL ENGINEER

DESIGNED BY: S. NOBLE
DRAWN BY: N. HOBBS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SOUTHEAST REGION

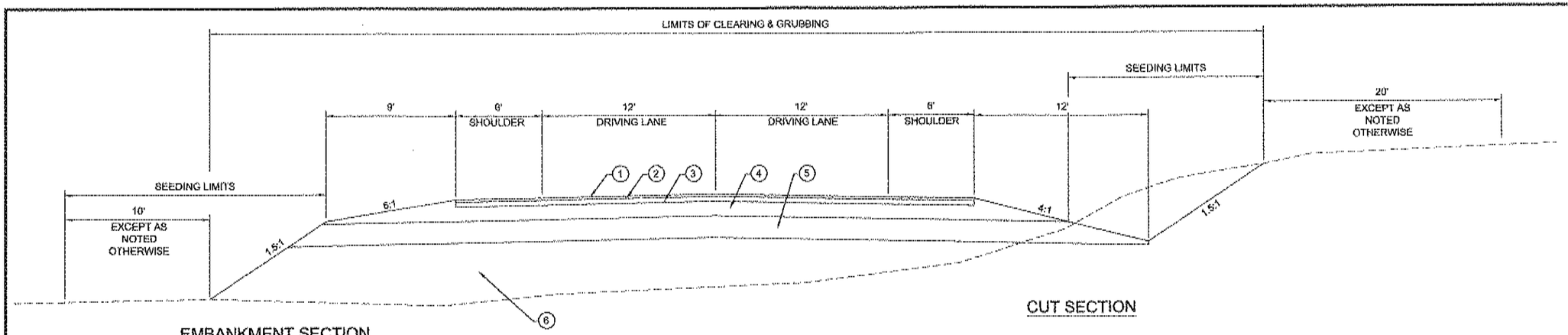
HAINES HIGHWAY
MP 3.5 TO MP 12
PROJECT #68606

TYPICAL SECTIONS

PATH: B:\JB\D59119 HNS DSN\090 DESIGN DRAWINGS\PLAN SET MP 3.5-12\A-C SHEETS\B1-02.DWG
TAB: B1 Wednesday, May 15, 2013 1:48:45 PM KEMP, JENNIFER

REVISIONS NO.	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			68606	2013	B1	93

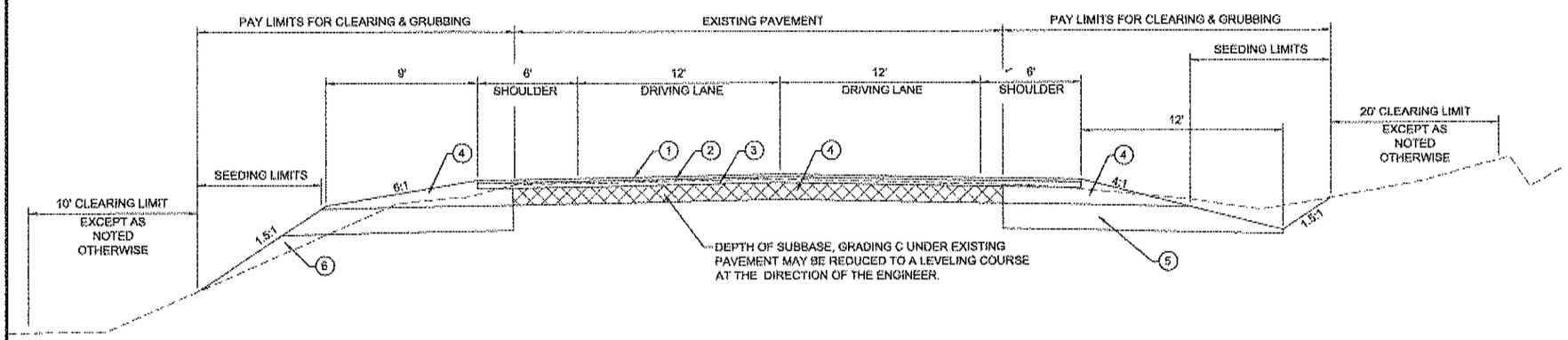
05/10/13



EMBANKMENT SECTION

CUT SECTION

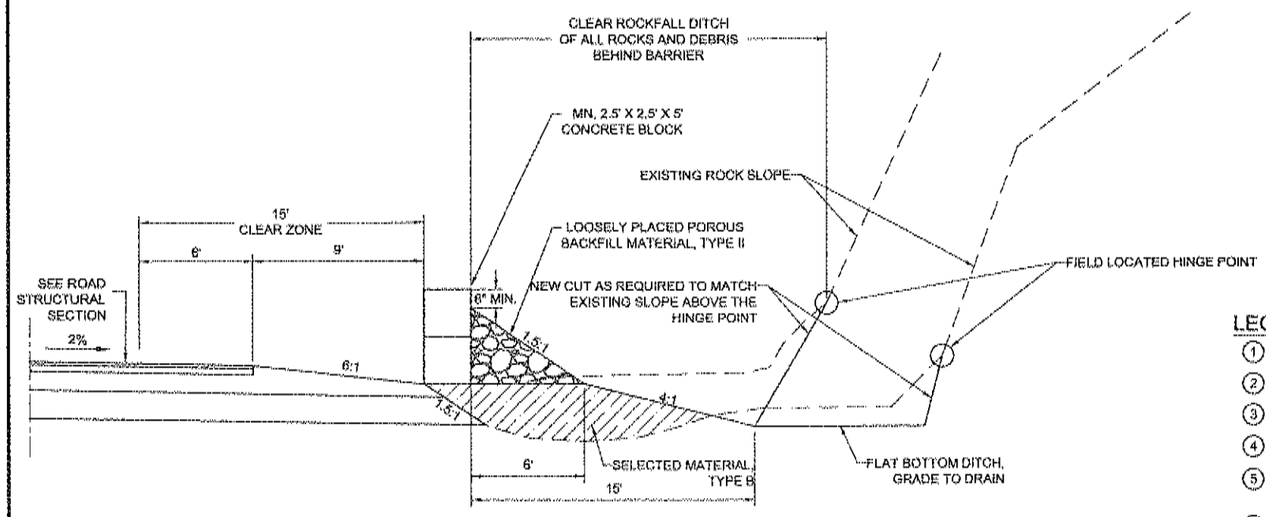
TYPICAL SECTION FOR HIGHWAY RE-ALIGNMENT



EMBANKMENT SECTION

CUT SECTION

TYPICAL SECTION FOR ROADWAY IMPROVEMENT



ROCK FALL BARRIER

LEGEND

1. 2" ASPHALT CONCRETE, TYPE II, CLASS B
2. STE-1 ASPHALT FOR TACK COAT
3. 4" ASPHALT TREATED BASE COURSE, TWO 2-INCH LIFTS
4. 12" SUBBASE, GRADING C
5. 18" USEABLE EXCAVATION MEETING REQUIREMENTS OF SELECTED MATERIAL, TYPE A
6. BORROW OR USEABLE EXCAVATION MEETING REQUIREMENTS OF SELECTED MATERIAL, TYPE B

TYPICAL SECTION NOTES

1. IT IS THE INTENT OF THIS PROJECT TO INCORPORATE THE EXISTING ROAD INTO THE STRUCTURAL SECTION OF THE NEW ROAD WHERE POSSIBLE. CONSTRUCT 18" OF SELECTED MATERIAL, TYPE A OUTSIDE THE LIMITS OF THE EXISTING PAVEMENT. CONSTRUCT 18" OF SELECT MATERIAL, TYPE A TO THE FULL WIDTH IN AREAS WHERE THE FINISHED PROFILE IS GREATER THAN 24" BELOW EXISTING PAVEMENT.
2. THE AVERAGE THICKNESS OF EXISTING PAVEMENT IS 3", BUT VARIES IN THICKNESS UP TO 12" IN MAINTENANCE AREAS. SEE THE TEST HOLE DATA IN THE GEOTECHNICAL REPORT FOR KNOWN LOCATIONS OF PAVEMENT THICKNESS.
3. ALL NON-BEDROCK CONSTRUCTION SLOPES, EXCEPT THE GRAVEL SHOULDER, SHALL BE TOPSOILED (4" DEPTH) AND SEEDED. BONDED FIBER MATRIX (BFM) SHALL BE USED ON NON-BEDROCK SLOPES STEEPER THAN 4:1.
4. SUPERELEVATIONS ROTATE ABOUT THE CENTERLINE. THE RATES OF SUPERELEVATION AND THE SUPERELEVATION TRANSITION REGIONS ARE GIVEN ON THE PLAN AND PROFILE SHEETS. REFER TO CASE 1 OF STANDARD DRAWING I-81.00 AND THE DETAIL ON SHEET J9 FOR TRANSITION DETAILS.
5. FILL SLOPES SHOWN ARE THE STEEPEST THAT MAY BE CONSTRUCTED. FILL SLOPES MAY BE CONSTRUCTED FLATTER WITH APPROVAL OF THE ENGINEER. FILL SLOPES MAY NOT BE CONSTRUCTED FLATTER IN WETLANDS, WITHIN 50 FEET OF STREAMS, OR WITHIN 330 FEET OF AN EAGLE TREE.
6. MAINTAIN POSITIVE DRAINAGE AWAY FROM THE ROAD.
7. WHEN APPROVED BY THE ENGINEER, SELECTED MATERIAL TYPE C MAY BE SUBSTITUTED FOR SELECTED MATERIAL TYPE B GREATER THAN FOUR FEET BELOW THE BOTTOM OF THE PAVEMENT STRUCTURE.
8. WHEN WAQTC FOP FOR AASHTO T 27/ T11 IS SPECIFIED, METHOD A OR B WILL BE PERFORMED ON ALL CRUSHED AGGREGATE AND ON MATERIAL CONTAINING 3/4" NOMINAL MAXIMUM SIZE AGGREGATE OR LESS. WHEN WAQTCFOP FOR AASHTO T 180 IS SPECIFIED, METHOD D WILL BE PERFORMED UNLESS OTHERWISE STATED.

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

CHECKED BY: K. KILPATRICK

STATE OF ALASKA
49th
STEVEN K. NOBLE
CE-10061
REGISTERED PROFESSIONAL ENGINEER

DESIGNED BY: S. NOBLE
DRAWN BY: N. HOBBS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SOUTHEAST REGION

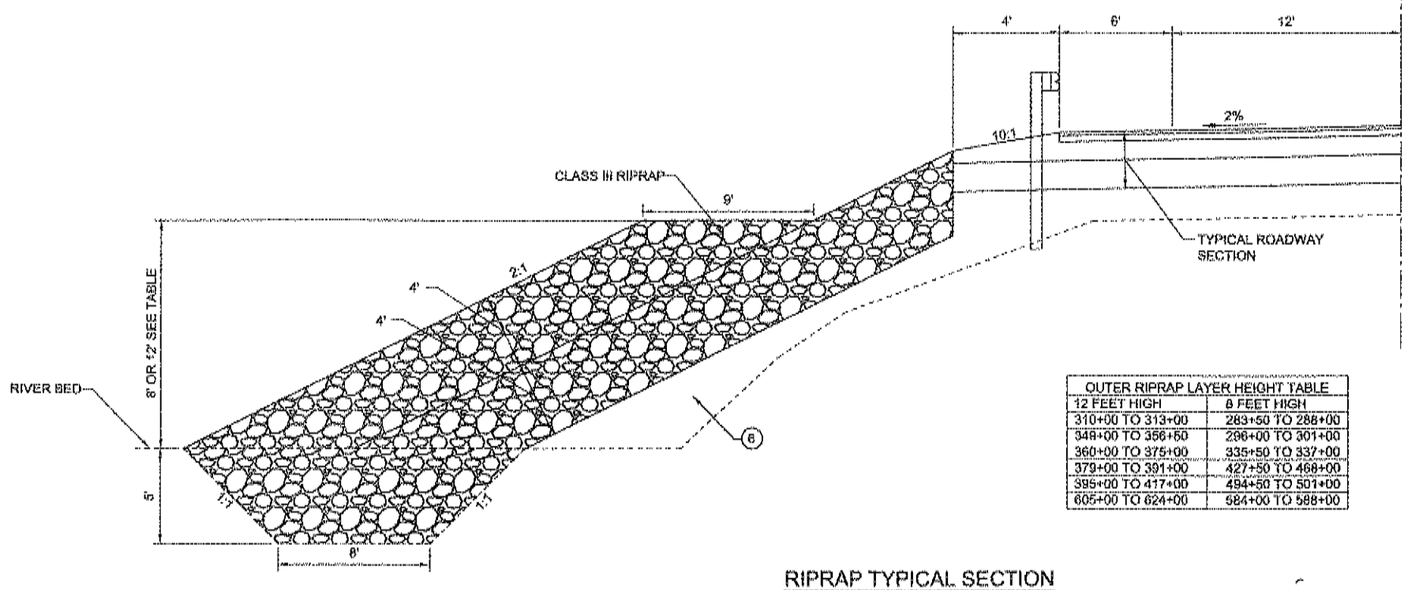
HAINES HIGHWAY
MP 3.5 TO MP 12
PROJECT #68606

TYPICAL SECTIONS

PATH: S:\JOB\D59119 HNS DSN\050 DESIGN DRAWINGS\PLAN SET MP 3.5-12\A-C SHEETS\B1-B2.DWG
TAB: B2 Wednesday, May 15, 2013 1:48:55 PM KEMP, JENNIFER

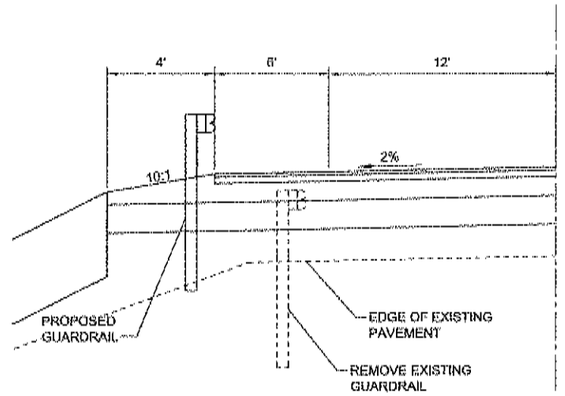
PIH 05/15/13

REVISIONS NO.	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			68606	2013	B2	93



OUTER RIPRAP LAYER HEIGHT TABLE	
12 FEET HIGH	8 FEET HIGH
310+00 TO 313+00	283+50 TO 286+00
348+00 TO 356+50	296+00 TO 301+00
360+00 TO 375+00	335+50 TO 337+00
379+00 TO 391+00	427+50 TO 468+00
395+00 TO 417+00	494+50 TO 501+00
605+00 TO 624+00	584+00 TO 588+00

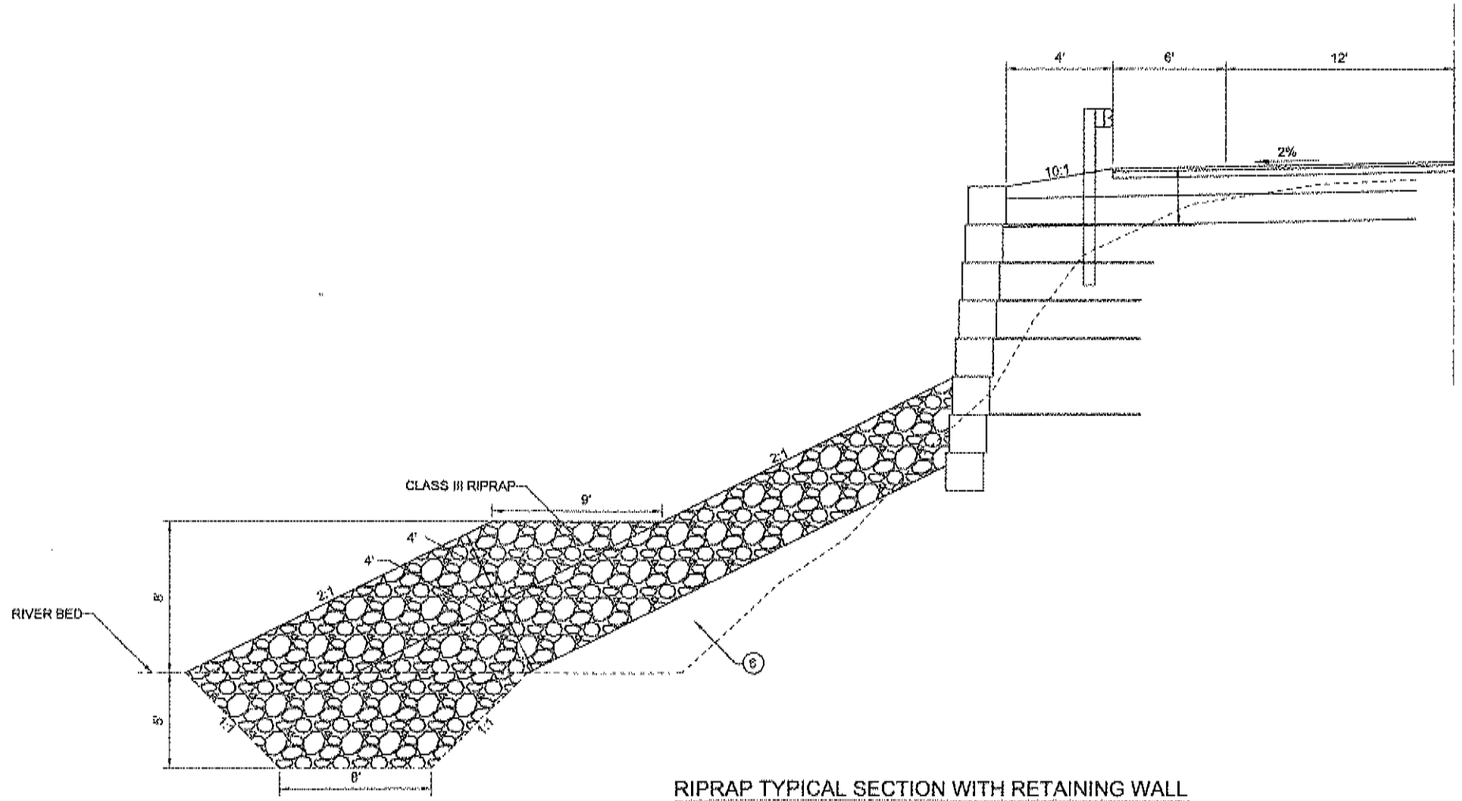
RIPRAP TYPICAL SECTION



GUARDRAIL TYPICAL

GUARDRAIL NOTES

1. GUARDRAIL POSTS SHALL BE 6' MINIMUM.
2. REFER TO G SERIES STANDARD DRAWINGS FOR GUARDRAIL DETAILS.
3. SEE GUARDRAIL SUMMARY ON SHEET D1 FOR GUARDRAIL LOCATIONS.
4. PORTIONS OF THE ROADWAY ARE BUILT ON BEDROCK AND LARGE SHOT ROCK. SOLID ROCK AND LARGE SHOT ROCK MAY BE ENCOUNTERED WHILE INSTALLING GUARDRAIL POSTS. SPECIAL EQUIPMENT AND DRILLING MAY BE REQUIRED TO ACHIEVE REQUIRED PENETRATION FOR INSTALLING GUARDRAIL POSTS.



RIPRAP TYPICAL SECTION WITH RETAINING WALL

395+00 TO 410+50
421+75 TO 422+75
426+75 TO 435+75
609+25 TO 615+25

LEGEND

1. 2" ASPHALT CONCRETE, TYPE II, CLASS B
2. STE-1 ASPHALT FOR TACK COAT
3. 4" ASPHALT TREATED BASE COURSE, TWO 2-INCH LIFTS
4. 12" SUBBASE, GRADING C
5. 18" USEABLE EXCAVATION MEETING REQUIREMENTS OF SELECTED MATERIAL, TYPE A
6. BORROW OR USEABLE EXCAVATION MEETING REQUIREMENTS OF SELECTED MATERIAL, TYPE B

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

CHECKED BY: K. KILPATRICK

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION

STATE OF ALASKA 49th STEVEN K. NOBLE CE-10051 REGISTERED PROFESSIONAL ENGINEER

DESIGNED BY: S. NOBLE
DRAWN BY: N. HOBBS

HAINES HIGHWAY
MP 3.5 TO MP 12
PROJECT #68606

TYPICAL SECTIONS

PATH: S:\JOB\068119 HNS DSN\000 DESIGN DRAWINGS\PLAN SET MP 3.5-12\A-G SHEETS\B1-B2.DWG
TAB: B3 Wednesday, May 15, 2013 1:48:58 PM KEMP, JENNIFER

REVISIONS: NO.	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			68606	2013	B3	93

ESTIMATE OF QUANTITIES

ITEM NO.	ITEM	PAY UNIT	QTY
201(1A)	CLEARING	ACRES	29
201(3A)	CLEARING AND GRUBBING	ACRES	51
202(1)	REMOVAL OF STRUCTURES AND OBSTRUCTIONS	LUMP SUM	ALL REQUIRED
202(2)	REMOVAL OF ASPHALT PAVEMENT	SQUARE YARD	134,098
202(4)	REMOVAL OF CULVERT PIPE	LINEAR FOOT	3,088
202(10)	SINGLE MAILBOX INSTALLATION	EACH	3
203(2)	ROCK EXCAVATION	CUBIC YARD	160,760
203(3)	UNCLASSIFIED EXCAVATION	CUBIC YARD	70,500
203(5A)	BORROW, TYPE A	CUBIC YARD	101,400
203(9)	OBLITERATION OF ROADWAY	STATION	7
203(10)	CONTROLLED BLASTING	SQUARE YARD	35,000
203(11)	EMBANKMENT	CUBIC YARD	210,500
203(13)	STABILIZATION - ROCK BOLT	LINEAR FOOT	550
203(14)	STABILIZATION - ROCK DOWEL	EACH	45
203(15)	ROCK SLOPE DRAIN HOLES	EACH	375
304(2)	SUBBASE, GRADING C	CUBIC YARD	76,900
306(1)	ASPHALT TREATED BASE	TON	42,200
401(1)	ASPHALT CONCRETE, TYPE II, CLASS B	TON	21,100
401(2)	ASPHALT CEMENT, GRADE PG 58-28	TON	1,280
401(3)	ASPHALT PRICE ADJUSTMENT	CONTINGENT SUM	ALL REQUIRED
402(1)	SYE-1 ASPHALT FOR TACK COAT	TON	61
511(1)	MECHANICALLY STABILIZED EARTH WALL	SF	26,700
602(2B)	STRUCTURAL PLATE PIPE ARCH, SPAN 6'9"	LINEAR FOOT	170
602(2C)	STRUCTURAL PLATE PIPE ARCH, SPAN 7'11"	LINEAR FOOT	98
602(2D)	STRUCTURAL PLATE PIPE ARCH, SPAN 8'7"	LINEAR FOOT	74
602(2H)	STRUCTURAL PLATE PIPE ARCH, SPAN 14'	LINEAR FOOT	82
603(17-12)	12-INCH PIPE	LINEAR FOOT	26
603(17-18)	18-INCH PIPE	LINEAR FOOT	253
603(17-24)	24-INCH PIPE	LINEAR FOOT	1,759
603(17-30)	30-INCH PIPE	LINEAR FOOT	40
603(17-48)	48-INCH PIPE	LINEAR FOOT	695
603(17-60)	60-INCH PIPE	LINEAR FOOT	275
603(17-84)	84-INCH PIPE	LINEAR FOOT	90
606(1)	W-BEAM GUARD RAIL	LINEAR FOOT	18,350
606(6)	REMOVAL AND DISPOSAL OF GUARDRAIL	LINEAR FOOT	19,072
606(11)	EXTRUDER TERMINAL (ET-2000)	EACH	14
611(1A)	RIPRAP, CLASS I	CUBIC YARD	50
611(1B)	RIPRAP, CLASS III	CUBIC YARD	145,000
615(1)	STANDARD SIGN	SQUARE FOOT	30
615(2)	REMOVE AND RELOCATE EXISITNG SIGNS	EACH	32
618(1A)	SEEDING	ACRES	30
618(1B)	SEEDING - WETLANDS	ACRES	20
618(1C)	SEEDING - WILDFLOWER	ACRES	50
618(3)	WATER FOR SEEDING	GALLON	1,000
620(1)	TOPSOIL	SQUARE YARD	100,000
630(1)	GEOTEXTILE, SEPARATION	SQUARE YARD	1,000
639(1)	RESIDENCE DRIVEWAYS	EACH	11
639(2)	DNR DRIVEWAYS AND PULLOUTS	EACH	9
640(1)	MOBILIZATION AND DEMOBILIZATION	LUMP SUM	ALL REQUIRED
641(1)	EROSION AND POLLUTION CONTROL, ADMINISTRATION	LUMP SUM	ALL REQUIRED

ESTIMATE OF QUANTITIES CONTINUED

ITEM NO.	ITEM	PAY UNIT	QTY
641(2)	EROSION AND POLLUTION CONTROL	CONTINGENT SUM	ALL REQUIRED
641(3)	SILT FENCE	LINEAR FOOT	25,000
641(6)	PRELIMINARY SEEDING	ACRES	50
641(7)	SEDIMENT FILTER	EACH	32
642(1)	CONSTRUCTION SURVEYING	LUMP SUM	ALL REQUIRED
642(2)	THREE PERSON SURVEY PARTY	HOUR	265
642(5)	LAND BOUNDARY MONUMENT	EACH	12
642(10)	MONUMENT CASES	EACH	52
643(2)	TRAFFIC MAINTENANCE	LUMP SUM	ALL REQUIRED
643(3)	PERMANENT CONSTRUCTION SIGNS	LUMP SUM	ALL REQUIRED
643(23)	TRAFFIC PRICE ADJUSTMENT	CONTINGENT SUM	ALL REQUIRED
643(27)	TRAFFIC CONTROL DEVICES	CONTINGENT SUM	ALL REQUIRED
643(29)	NEWSPAPER ADVERTISEMENTS	CONTINGENT SUM	ALL REQUIRED
644(2)	FIELD LABORATORY	LUMP SUM	ALL REQUIRED
644(6)	ENGINEERING TRANSPORTATION	LUMP SUM	ALL REQUIRED
645(1)	TRAINING PROGRAM FOR 2 TRAINEE/APPRENTICE	LABOR HOUR	2,000
670(1)	PAINTED TRAFFIC MARKINGS	LUMP SUM	ALL REQUIRED
670(8)	HIGHWAY DELINEATORS	EACH	156

BASIS OF ESTIMATE

ITEM NO.	ITEM DESCRIPTION	ESTIMATING FACTOR

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

CHECKED BY: K. KILPATRICK

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION

HAINES HIGHWAY
MP 3.5 TO MP 12
PROJECT #68606

ESTIMATE OF QUANTITIES

DESIGNED BY: S. NOBLE
DRAWN BY: N. HOBBS

PATH: S:\LIB\D69119 HNS DSN\050 DESIGN DRAWINGS\PLAN SET MP 3.5-12\A-C SHEETS\C1.DWG
TAB: C1 Wednesday, May 15, 2013 3:40:16 PM HOBBS, NAOMI

REVISIONS NO.	DATE	DESCRIPTION

PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
68606	2013	C1	93

202(4) REMOVAL OF CULVERT PIPE

PIPE	BEGIN		END		LENGTH (FT)	SIZE (IN)	REMARKS
	STATION	OFFSET	STATION	OFFSET			
1	189+49	25.9' LT	189+54	44.5' RT	86	48	
2	208+29	28.4' RT	208+51	29.1' RT	70	24	
3	210+88	30.7' RT	211+14	32.3' RT	21	18	
4	211+66	30.3' RT	211+99	30.9' RT	26	18	
5	212+12	29.3' LT	212+07	28.6' RT	33	18	
6	212+11	33.2' RT	213+45	78.4' RT	58	24	
7	214+06	28.7' RT	214+06	31.4' LT	142	24	
8	222+27	25.6' LT	222+71	23.6' RT	60	24	
9	224+58	33.2' RT	224+09	33.0' RT	66	48	
10	231+68	37.1' RT	232+22	34.9' RT	50	18	
11	236+64	59.3' RT	236+27	62.5' RT	54	24	
12	240+41	33.2' RT	240+36	25.5' LT	37	18	
13	245+17	28.9' RT	245+19	29.4' LT	59	24	
14	248+43	27.5' RT	248+46	30.2' LT	58	36	
15	288+85	32.7' RT	289+11	30.8' RT	58	24	
16	292+90	30.8' RT	292+90	18.9' LT	26	12	
17	292+93	31.2' RT	292+94	19.1' LT	50	24	
18	293+23	71.7' RT	293+28	90.5' RT	50	24	
19	293+94	56.5' RT	293+78	44.4' RT	20	30	
20	298+63	30.3' RT	298+61	24.7' LT	20	30	
21	299+95	27.9' RT	299+98	26.5' LT	55	24	
22	314+71	22.1' RT	314+72	30.4' LT	54	24	
23	317+56	45.2' RT	317+34	41.7' RT	52	24	
24	319+16	43.9' RT	319+12	8.6' LT	22	24	
25	324+77	30.2' RT	324+80	30.3' LT	53	36	
26	363+48	36.2' RT	363+76	40.1' RT	61	48	
27	366+40	60.1' RT	366+36	3.8' RT	28	18	
28	368+99	38.9' RT	368+92	13.1' LT	56	24	
29	372+36	33.3' RT	372+37	23.1' LT	52	24	
30	382+03	68.7' RT	382+06	6.8' RT	56	24	
31	403+51	29.9' RT	403+69	32.6' LT	62	36	
32	407+64	14.9' RT	407+66	42.5' LT	64	24	
33	419+99	26.2' RT	419+90	28.1' LT	58	24	
34	420+04	25.7' RT	419+94	28.1' LT	55	24	
35	433+03	147.4' RT	433+02	83.9' RT	55	24	
36	434+48	149.8' RT	434+27	151.0' RT	64	24	
37	448+98	29.9' RT	449+06	27.8' LT	21	18	
38	453+31	39.7' RT	453+34	23.1' LT	58	24	
39	453+28	41.0' RT	453+02	40.3' RT	63	24	
40	462+56	37.4' RT	462+54	14.7' LT	25	18	
41	483+28	28.7' RT	483+02	43.5' LT	52	24	
42	512+33	47.7' RT	512+22	23.4' LT	77	24	
43	512+40	46.5' RT	512+30	23.9' LT	72	24	
44	517+69	29.1' RT	517+73	31.1' LT	71	36	
45	530+74	25.8' RT	530+75	23.1' LT	60	24	
46	539+84	21.0' RT	539+78	35.1' LT	49	24	
47	546+70	28.8' RT	546+70	29.2' LT	56	24	
48	556+89	16.9' RT	556+88	38.3' LT	58	24	
49	569+09	26.9' RT	569+13	33.5' LT	55	24	
50	571+94	21.5' RT	571+94	39.4' LT	61	24	
51	576+40	18.9' RT	576+41	34.7' LT	61	24	
52	579+81	25.5' RT	579+86	35.7' LT	54	24	
53	589+18	24.3' RT	589+15	38.0' LT	61	24	
54	589+28	24.4' RT	589+23	38.1' LT	62	24	
55	596+22	7.2' LT	596+30	64.4' LT	63	24	
56	606+72	9.6' RT	606+75	49.2' LT	58	24	

202(10) SINGLE MAIL BOX INSTALLATION

STATION	OFFSET	QTY	REMARKS
232+13	RT	1	REMOVE AND RESET AS NECESSARY
393+57	RT	1	
420+66	RT	1	REMOVE AND RESET AS NECESSARY

202(1) REMOVAL OF STRUCTURES AND OBSTRUCTIONS

BEGIN		END		REMARKS
STATION	OFFSET	STATION	OFFSET	

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

CHECKED BY: K. KILPATRICK

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION

STATE OF ALASKA 49th STEVEN K. NOBLE CE-10051 REGISTERED PROFESSIONAL ENGINEER

HAINES HIGHWAY
MP 3.5 TO MP 12
PROJECT #68606

MISCELLANEOUS SUMMARIES

DESIGNED BY: S. NOBLE
DRAWN BY: N. HOBBS

PATH: S:\UB\D59119 HNS DSN\050 DESIGN DRAWINGS\PLAN SET MP 3.5-12\0 SHEETS\0-SHEETS.DWG
TAB: D1 Wednesday, May 15, 2013 3:41:09 PM HOBBS, NAOMI

PIH 05/15/13

REVISIONS NO.	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			68606	2013	D1	93

603 CULVERT PIPE SUMMARY

PIPE	TYPE	DIA. (IN)	LENGTH (FT)	INLET			OUTLET			REMARKS
				STATION	OFFSET	INV.	STATION	OFFSET	INV.	
P1-1		48	87	182+37	36.4' RT	23.5	182+38	51.0' LT	20.8	
P1-2		24	84	189+54	44.6' RT	19.3	189+49	39.5' LT	18.5	
P3-1		18	22	208+28	28.3' RT	28.0	208+51	29.1' RT	27.8	
P3-2		18	26	210+88	30.7' RT	26.1	211+14	32.3' RT	26.0	
P3-3		18	33	211+66	30.3' RT	25.4	211+99	30.9' RT	25.0	
P3-4		24	75	212+06	34.1' RT	23.8	212+13	40.4' LT	20.6	
P3-5		24	76	213+94	37.7' RT	22.8	213+95	38.5' LT	20.5	
P4-1		18	61	224+07	33.0' RT	22.6	224+67	33.2' RT	22.1	
P5-1		24	54	232+22	34.9' RT	23.0	231+68	37.1' RT	22.9	
P5-2		18	37	236+27	62.5' RT	24.1	236+64	59.3' RT	23.8	
P10-1		12	26	289+11	38.0' RT	26.9	288+85	39.9' RT	26.5	
P11-1		30	20	293+28	98.2' RT	39.8	293+23	79.4' RT	36.8	
P11-2		30	20	293+94	64.3' RT	28.5	293+78	52.2' RT	28.3	
P11-3		24	68	298+64	41.4' RT	26.0	298+61	26.0' LT	25.7	
P11-4		24	75	299+95	41.4' RT	25.8	299+99	33.2' LT	25.3	
P13-1		24	22	317+36	41.7' RT	28.9	317+57	45.2' RT	27.9	
P17-1		18	28	363+77	40.1' RT	32.0	363+50	36.2' RT	31.8	
P17-2		24	75	369+01	38.9' RT	32.1	368+87	35.0' LT	30.0	
P18-1		24	72	372+37	34.3' RT	30.8	372+38	37.6' LT	29.7	
P21-1		24	87	403+53	37.7' RT	36.7	403+70	47.7' LT	34.2	
P21-2		24	61	407+66	35.6' RT	37.9	407+68	25.6' LT	33.8	
P23-1		24	99	433+07	51.8' RT	31.7	433+08	46.7' LT	31.6	
P23-2		18	21	434+51	153.7' RT	43.9	434+30	155.1' RT	43.4	
P25-1		24	73	449+00	30.8' RT	38.6	449+09	41.8' LT	32.5	
P25-2		18	25	453+03	40.3' RT	39.3	453+29	41.0' RT	38.5	
P25-3		24	81	453+32	39.7' RT	38.0	453+36	40.8' LT	35.0	
P26-1		24	77	462+57	37.4' RT	37.5	462+54	39.8' LT	34.8	
P31-1		24	84	517+70	41.8' RT	40.3	517+75	42.0' LT	37.7	
P33-1		24	68	539+88	32.7' RT	41.3	539+79	35.1' LT	39.4	
P34-1		24	65	546+71	33.2' RT	41.2	546+72	31.4' LT	40.9	
P35-1		24	68	556+90	29.3' RT	43.4	556+90	38.3' LT	40.7	
P36-1		24	73	569+10	35.4' RT	44.4	569+14	37.5' LT	41.4	
P36-2		24	72	571+95	33.0' RT	46.8	571+95	39.4' LT	42.6	
P36-3		24	71	576+41	33.5' RT	45.9	576+42	37.5' LT	43.3	
P37-1		24	78	579+81	39.4' RT	44.5	579+87	38.5' LT	43.4	
P38-1		24	101	596+17	35.5' RT	47.0	596+31	64.4' LT	45.8	

FISH STREAM CULVERT SUMMARY

PIPE	TYPE	DIA (IN)	LENGTH (FT)	INLET			OUTLET			REMARKS
				STATION	OFFSET	INV.	STATION	OFFSET	INV.	
FP-1	CMP ARCH	60	100.0	222+90.0	36.8' RT	19.4	222+23.1	37.8' LT	18.9	
FP-2	CMP	48	70.0	229+15.7	33.2' RT	19.6	228+98.8	34.7' LT	18.9	
FP-3	CMP	48	68.0	240+41.1	33.7' RT	20.8	240+37.9	34.2' LT	20.1	
FP-4	CMP	48	68.0	245+17.7	33.5' RT	20.7	245+19.6	34.5' LT	19.1	
FP-5	CMP	60	67.9	248+43.5	33.8' RT	20.4	248+46.7	34.0' LT	20.0	
FP-6	CMP	48	82.0	292+93.1	40.3' RT	25.7	292+82.3	40.9' LT	23.7	
FP-7	CMP	60	70.0	314+74.9	30.3' RT	26.4	314+73.8	39.7' LT	24.9	
FP-8	CMP ARCH	60	70.0	319+17.5	35.9' RT	25.5	319+11.5	33.9' LT	24.5	
FP-9	CMP ARCH	66	74.0	324+48.4	37.6' RT	24.0	324+79.5	36.4' LT	23.5	
FP-10	CMP	48	68.0	349+90.2	33.2' RT	29.3	349+90.2	34.8' LT	28.0	
FP-11	CMP	48	74.0	366+42.3	37.0' RT	30.2	366+42.3	37.0' LT	30.0	
FP-12	CMP	48	90.0	382+05.1	42.8' RT	29.7	382+05.1	47.2' LT	28.9	
FP-13	CMP	60	71.5	419+97.9	35.0' RT	37.8	419+90.7	36.0' LT	34.8	
FP-14	CMP ARCH	66	96.0	483+72.3	41.0' RT	33.2	483+19.0	38.8' LT	32.8	
FP-15	CMP ARCH	72	82.0	512+41.0	40.9' RT	36.1	512+25.5	39.6' LT	35.2	
FP-16	CMP	60	65.9	530+75.3	32.7' RT	37.7	530+77.0	33.2' LT	37.5	
FP-17	CMP	84	90.0	589+27.9	43.7' RT	40.4	589+20.7	46.0' LT	38.9	

606(1) W-BEAM GUARDRAIL

BEGIN		END		REMARKS
STATION	OFFSET	STATION	OFFSET	
261+50	19	266+00	19	
273+00	19	276+50	19	
282+50	19	314+00	19	
334+50	19	339+00	19	
349+00	19	469+50	19	
494+00	19	502+00	19	

606(6) REMOVAL AND DISPOSAL OF GUARDRAIL

BEGIN		END		LENGTH (FT)	REMARKS
STATION	OFFSET	STATION	OFFSET		
186+21	LT	197+31	LT	1126	
261+44	LT	288+46	LT	2702	
295+44	LT	301+71	LT	628	
348+34	LT	376+55	LT	2827	
378+29	LT	390+79	RT	1251	
394+72	LT	419+02	RT	2534	
419+81	LT	469+80	LT	5023	
489+20	LT	502+53	LT	1353	
556+34	LT	561+39	LT	511	
562+23	LT	564+19	LT	196	
584+49	LT	589+41	LT	492	
604+71	LT	609+00	LT	428	

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

CHECKED BY: K. KILPATRICK

STATE OF ALASKA
49th
STEVEN K. NOBLE
CE-10051
REGISTERED PROFESSIONAL ENGINEER

DESIGNED BY: S. NOBLE
DRAWN BY: N. HOBBS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION

HAINES HIGHWAY
MP 3.5 TO MP 12
PROJECT #68606

MISCELLANEOUS SUMMARIES

PATH: S:\JOB\59119 HNS DSN\D50 DESIGN DRAWINGS\PLAN SET MP 3.5-12\D SHEETS\D-SHEETS.DWG
TAB: D2 Wednesday, May 15, 2013 3:42:09 PM HOBBS, NAOMI

PIH 05/16/13

REVISIONS NO.	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			68606	2013	D2	93

611(1B) CLASS III, RIPRAP

BEGIN		END		LENGTH (FT)	REMARKS
STATION	OFFSET	STATION	OFFSET		
283+50	LT	288+00	LT	450	TYPICAL
296+00	LT	301+00	LT	500	TYPICAL
310+00	LT	313+00	LT	300	SPECIAL
335+00	LT	337+00	LT	200	TYPICAL
349+00	LT	356+50	LT	750	SPECIAL
360+00	LT	375+00	LT	1500	SPECIAL
379+00	LT	391+00	LT	1200	SPECIAL
395+00	LT	417+00	LT	2200	SPECIAL
427+50	LT	468+00	LT	4050	TYPICAL
494+50	LT	501+00	LT	650	TYPICAL
584+00	LT	588+00	LT	400	TYPICAL
605+00	LT	620+00	LT	1500	SPECIAL

615(1) STANDARD SIGN

SIGN #	LEGEND	STATION	OFFSET	ASDS CODE	WIDTH (IN)	HEIGHT (IN)	AREA (SF)	POST	SIGN FACING	REMARKS
1	Speed Limit 55	183+00	RT	R2-1	30	36	7.5	2.5 PST	N Bound	
2	Speed Limit 45	-	LT	R2-1	30	36	7.5	2.5 PST	S Bound	
3	Mile 4	208+40	RT	D10-2	10	27	1.875	2.5 PST	N Bound	
4	Mile 4	-	"	D10-2	10	27	1.875	-	S Bound	
5	Mile 5	261+20	RT	D10-2	10	27	1.875	2.5 PST	N Bound	
6	Mile 5	"	"	D10-2	10	27	1.875	-	S Bound	
7	Mile 6	314+00	RT	D10-2	10	27	1.875	2.5 PST	N Bound	
8	Mile 6	"	"	D10-2	10	27	1.875	-	S Bound	
9	Mile 7	366+80	RT	D10-2	10	27	1.875	2.5 PST	N Bound	
10	Mile 7	"	"	D10-2	10	27	1.875	-	S Bound	
11	Mile 8	419+60	RT	D10-2	10	27	1.875	2.5 PST	N Bound	
12	Mile 8	"	"	D10-2	10	27	1.875	-	S Bound	
13	Mile 9	472+40	RT	D10-2	10	27	1.875	2.5 PST	N Bound	
14	Mile 9	-	-	D10-2	10	27	1.875	-	S Bound	
15	Mile 10	525+20	RT	D10-2	10	27	1.875	2.5 PST	N Bound	
16	Mile 10	-	-	D10-2	10	27	1.875	-	S Bound	
17	Mile 11	578+00	RT	D10-2	10	27	1.875	2.5 PST	N Bound	
18	Mile 11	-	-	D10-2	10	27	1.875	-	S Bound	

642(10) MONUMENT CASES

STATION	OFFSET	STATION	OFFSET
184+01.6	2.3' LT	434+80.0	114.6' RT
192+31.8	16.4' RT	437+92.6	61.1' RT
195+01.8	6.8' LT	441+51.2	27.2' RT
195+44.9	15.3' LT	461+37.6	32.1' RT
203+93.6	18.4' LT	477+64.8	28.7' LT
215+04.0	4.1' RT	480+53.9	2.1' LT
221+35.5	3.9' RT	483+59.4	15.2' LT
238+02.1	20.8' RT	488+36.3	93.0' LT
262+70.4	0.6' LT	491+62.5	73.7' LT
269+41.3	0.7' LT	494+41.3	0.5' RT
279+74.7	3.4' LT	500+85.2	7.0' LT
298+24.9	12.3' RT	507+90.5	19.1' LT
318+40.7	8.8' RT	510+28.2	1.3' LT
323+24.2	11.7' RT	513+79.7	5.7' LT
356+75.3	10.2' LT	517+75.7	10.2' RT
366+01.3	43.3' RT	521+69.7	3.2' LT
376+87.7	2.0' LT	528+76.2	2.4' LT
383+45.4	43.5' RT	538+55.8	1.9' LT
393+10.0	11.2' RT	547+24.2	2.6' RT
399+03.3	13.5' RT	551+78.8	38.6' LT
409+90.6	18.4' LT	558+38.6	24.6' LT
412+87.3	34.8' RT	569+73.7	4.4' RT
415+86.7	42.0' RT	581+10.1	6.5' LT
424+33.4	9.1' LT	591+84.8	39.1' LT
428+08.1	27.1' RT	604+35.4	24.3' LT
431+01.7	100.5' RT	616+48.8	0.8' RT

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

CHECKED BY: K. KILPATRICK

STATE OF ALASKA 49th STEVEN K. NOBLE CE-10061 REGISTERED PROFESSIONAL ENGINEER

DESIGNED BY: S. NOBLE

DRAWN BY: N. HOBBS

PATH: S:\JBD59119 HNS DSN\050 DESIGN DRAWINGS\PLAN SET MP 3.5-12\D SHEETS\D-SHEETS.DWG

TAB: D3 Wednesday, May 15, 2013 3:42:47 PM HOBBS, NAOMI

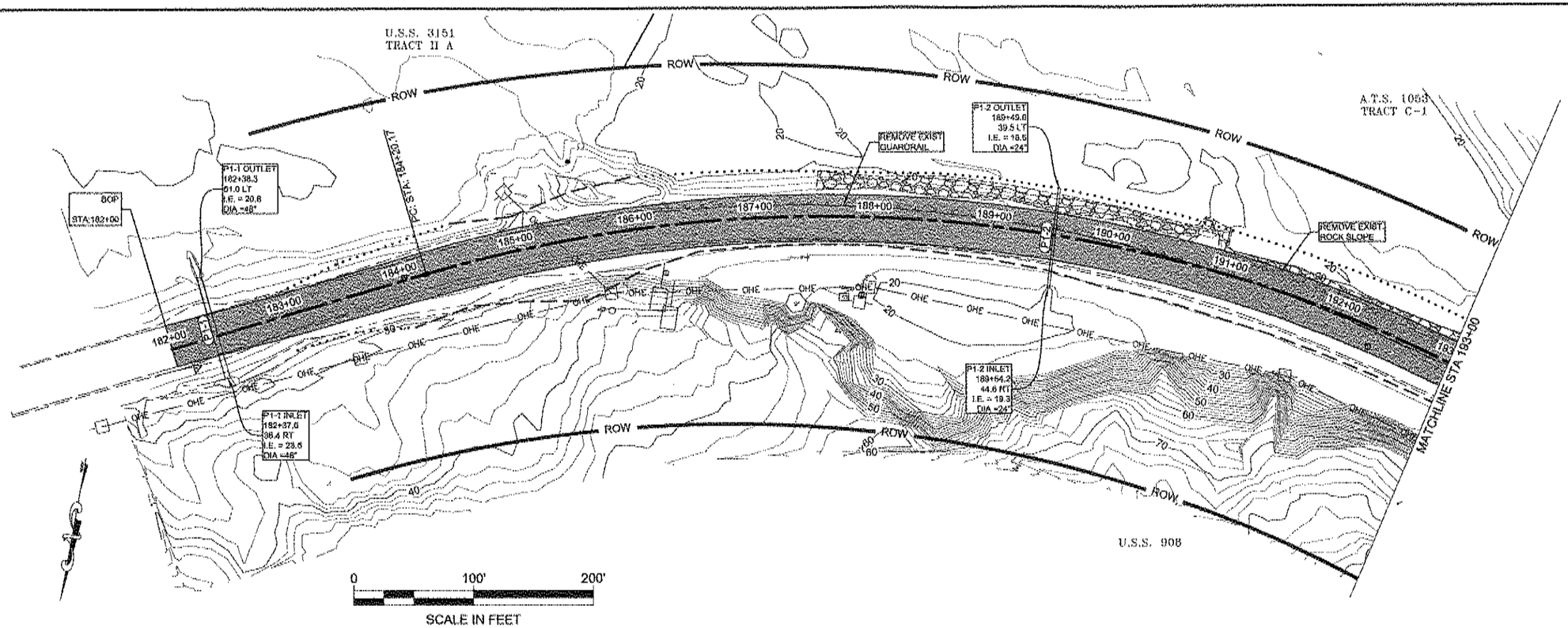
PIH 05/16/13

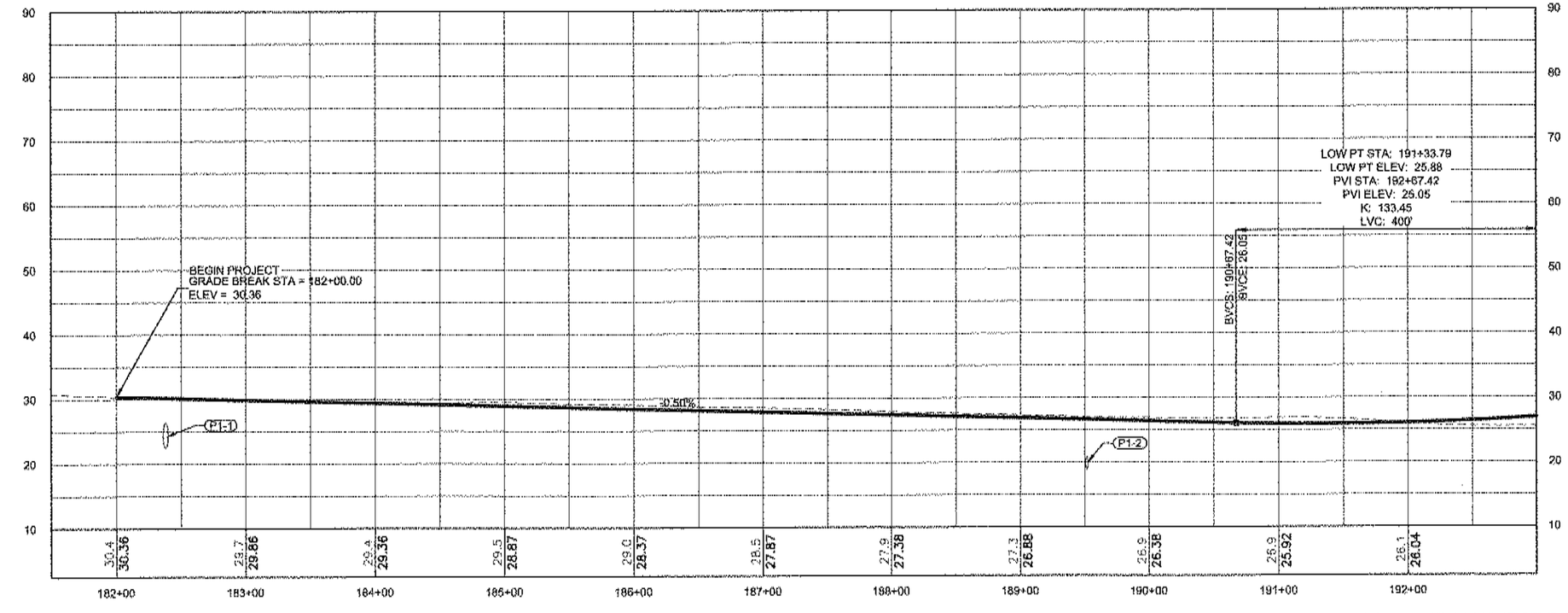
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION

HAINES HIGHWAY
MP 3.5 TO MP 12
PROJECT #68606

MISCELLANEOUS SUMMARIES

REVISIONS NO.	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			68606	2013	D3	93





DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

PATH: S:\JBD59119 HNS DSN\050 DESIGN DRAWINGS\PLAN SET MP 3.5-12\F SHEETS\F1-F20.DWG
KEMP, JENNIFER
TAB: F1 Wednesday, May 15, 2013 2:41:50 PM

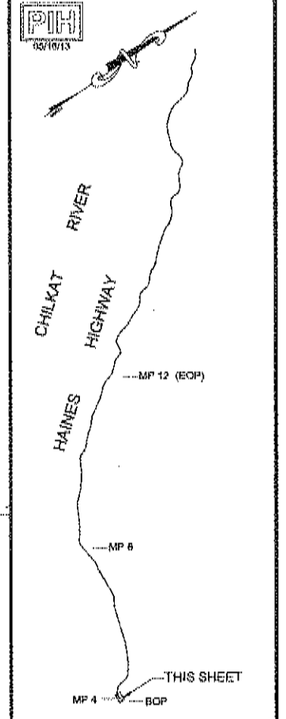
ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

PH
05/10/13



CHECKED BY: K. KILPATRICK

STATE OF ALASKA
49th
STEVEN K. NOBLE
CE-10051
REGISTERED PROFESSIONAL ENGINEER

DESIGNED BY: N. HOBBS
DRAWN BY: J. KEMP

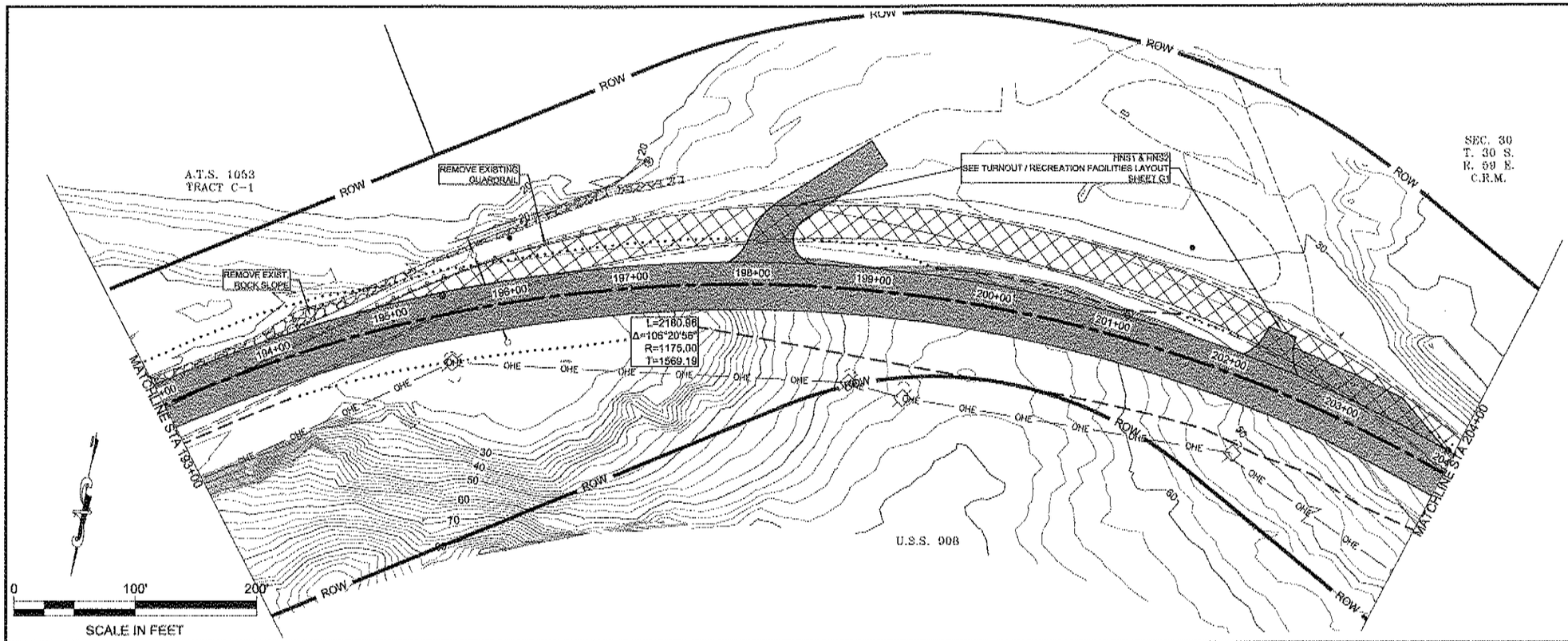
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION

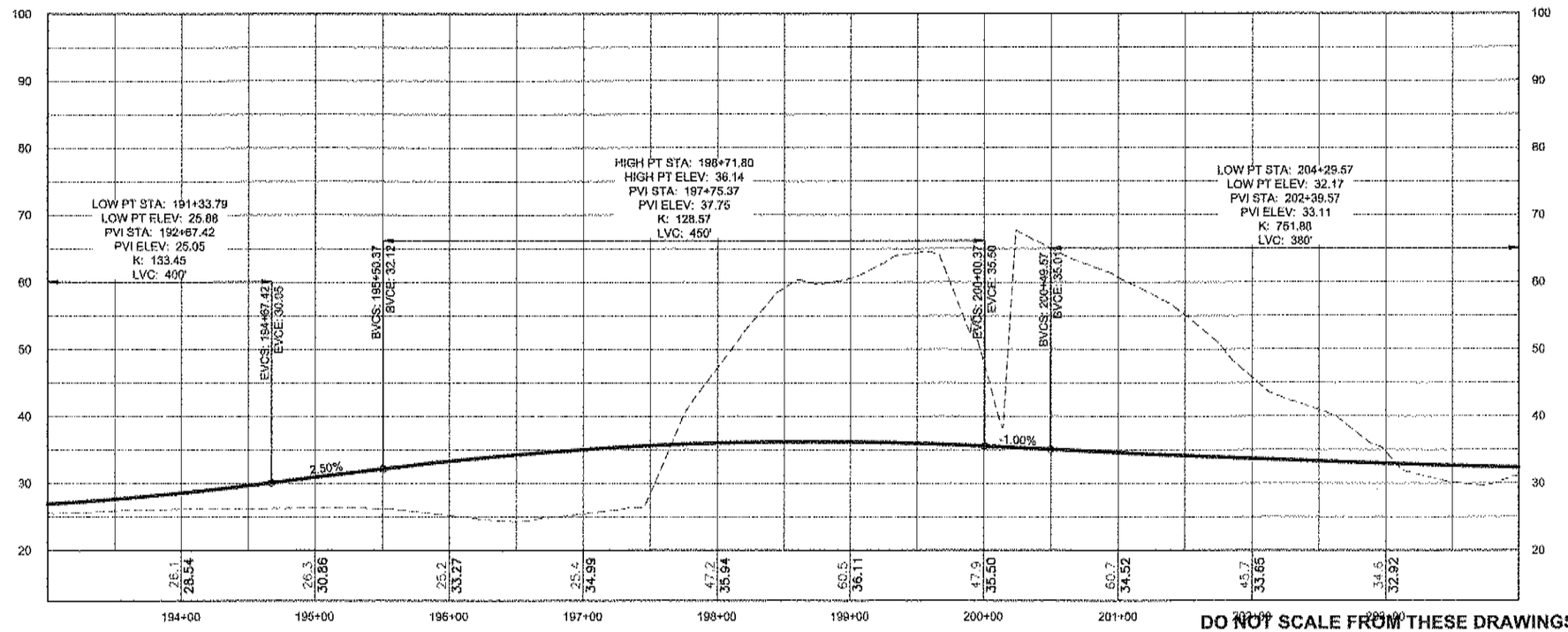
HAINES
HIGHWAY
MP 3.5 TO MP 12
PROJECT #68606

PLAN & PROFILE

PROJECT DESIGNATION
68606

STATE	YEAR
ALASKA	2013
SHEET NUMBER	TOTAL SHEETS
F1	93





DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

PATH:S:\AUB\DS9119 HNS DSN\050 DESIGN DRAWINGS\PLAN SET MP 3.5-12\F SHEETS\F1-F20.DWG

KEMP, JENNIFER

TAB: F2 Wednesday, May 15, 2013 2:42:28 PM

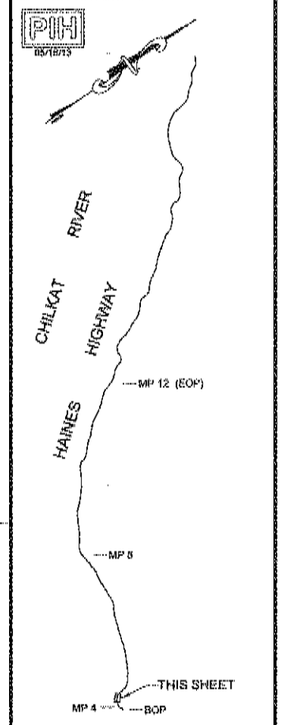
ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

PIH 05/16/13



CHECKED BY: K. KILPATRICK

STATE OF ALASKA 49th
STEVEN K. NOBLE
CE-10061
REGISTERED PROFESSIONAL ENGINEER

DESIGNED BY: N. HOBBS

DRAWN BY: J. KEMP

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION

HAINES
HIGHWAY
MP 3.5 TO MP 12
PROJECT #68606

PLAN & PROFILE

PROJECT DESIGNATION

68606

STATE	YEAR
ALASKA	2013
SHEET NUMBER	TOTAL SHEETS
F2	93

PATH:S:\JOBS\59119 HNS DSN\050 DESIGN DRAWINGS\PLAN SET MP 3.5-12\F SHEETS\F1-F20.DWG
KEMP, JENNIFER
TAB: F3 Wednesday, May 15, 2013 2:42:36 PM

ADDENDUM NUMBER

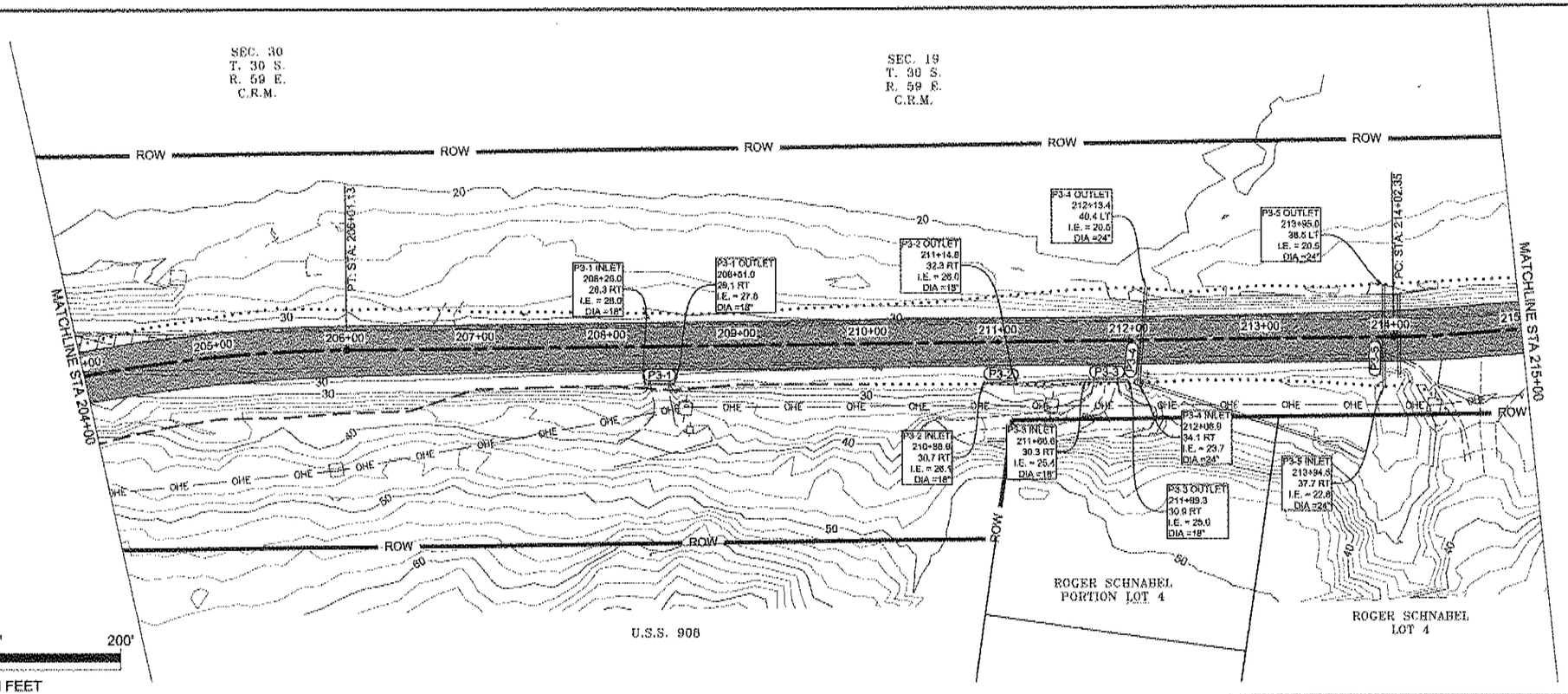
ATTACHMENT NUMBER

RECORD OF REVISIONS

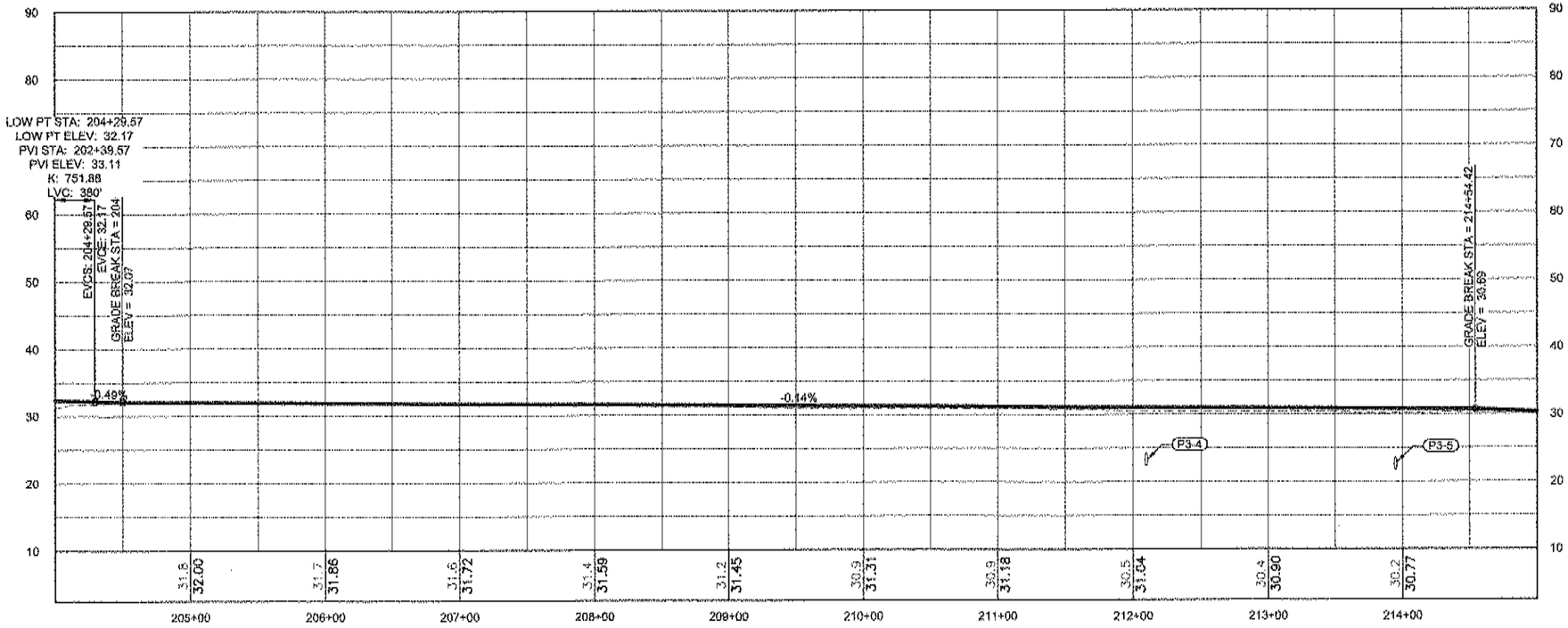
NO.	DATE	DESCRIPTION

SEC. 30
T. 30 S.
R. 59 E.
C.R.M.

SEC. 19
T. 30 S.
R. 59 E.
C.R.M.

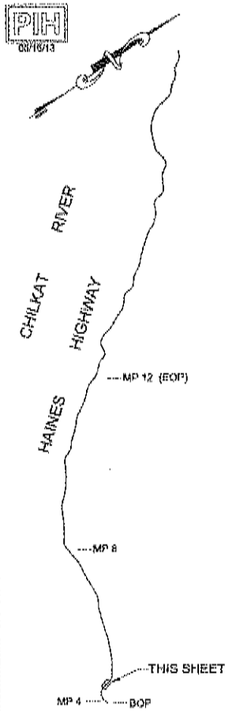


0 100' 200'
SCALE IN FEET



DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

PIH
06/18/13



CHECKED BY: K. KILPATRICK

STATE OF ALASKA
49th
STEVEN K. NOBLE
CE-10051
REGISTERED PROFESSIONAL ENGINEER

DESIGNED BY: N. HOBBS

DRAWN BY: J. KEMP

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION

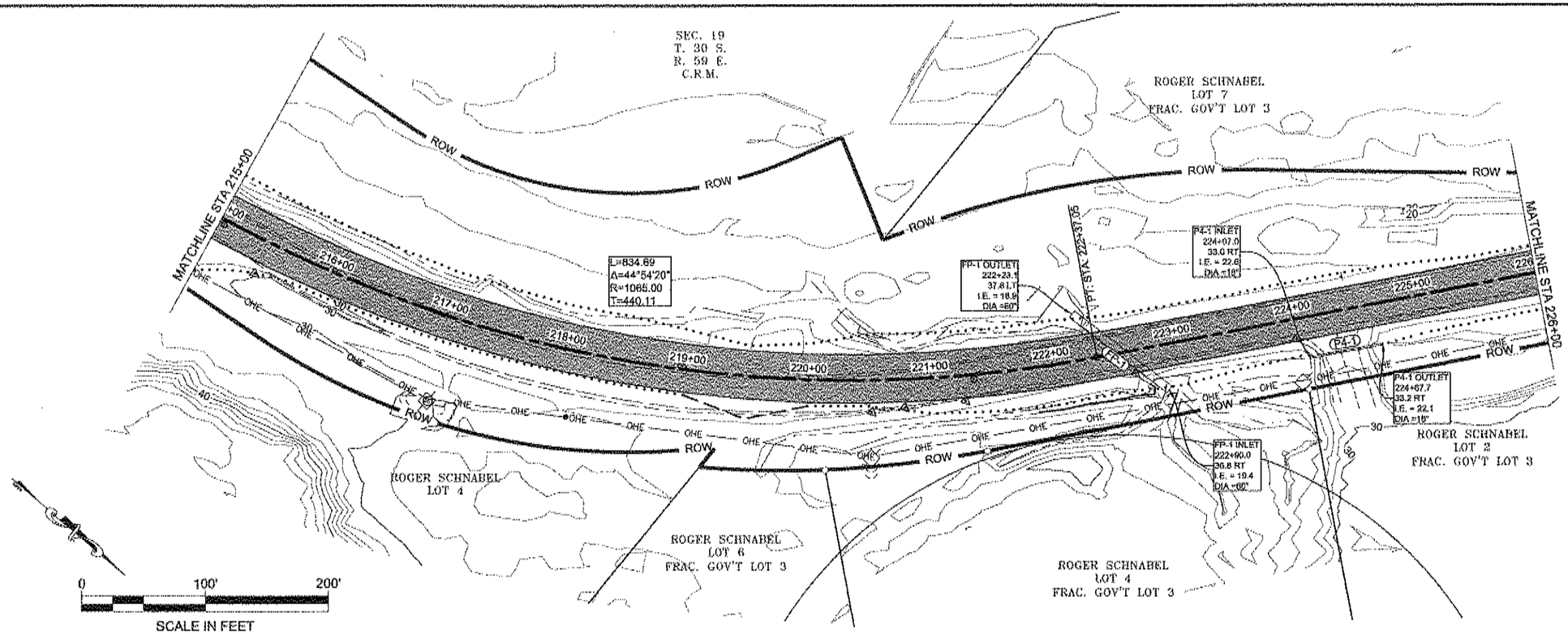
HAINES
HIGHWAY
MP 3.5 TO MP 12
PROJECT #68606

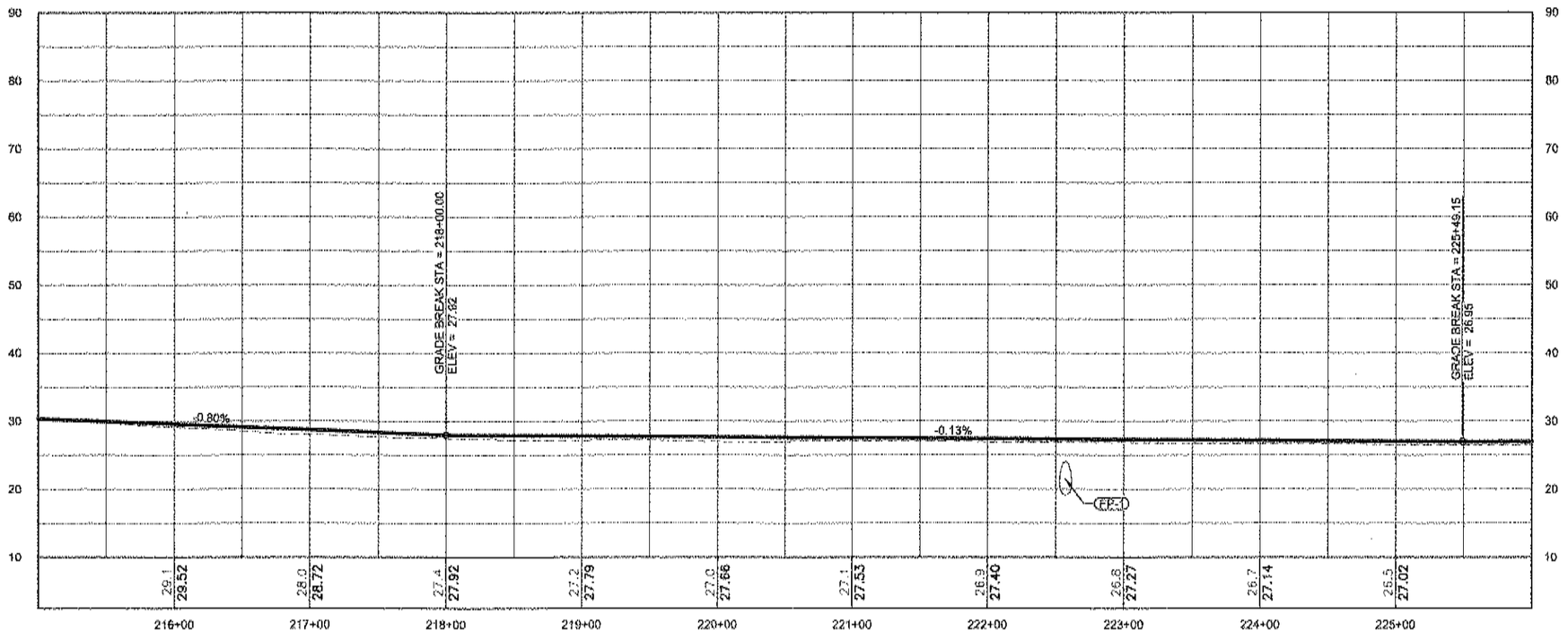
PLAN & PROFILE

PROJECT DESIGNATION
68606

STATE	YEAR
ALASKA	2013

SHEET NUMBER	TOTAL SHEETS
F3	93





DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

PATH: S:\LIB\D59110 HNS DSN\050 DESIGN DRAWINGS\PLAN SET MP 3.5-12\F SHEETS\F1-F20.DWG

KEMP, JENNIFER

TAB: F4 Wednesday, May 15, 2013 3:42:51 PM

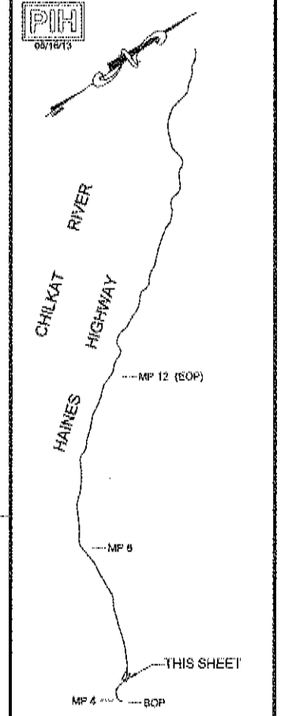
ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

PIH 05/16/13



CHECKED BY: K. KILPATRICK

STATE OF ALASKA
49th
STEVEN K. NOBLE
CE-10051
REGISTERED PROFESSIONAL ENGINEER

DESIGNED BY: N. HOBBS

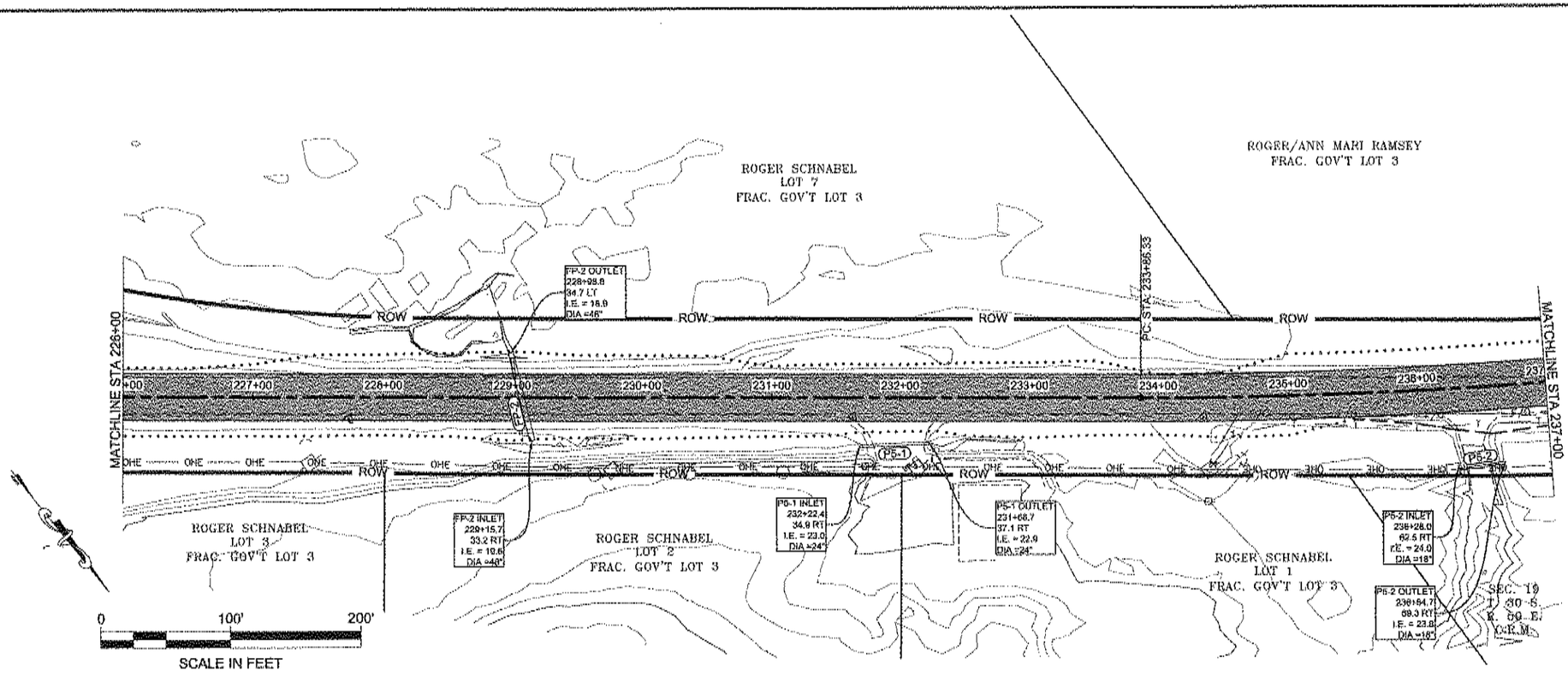
DRAWN BY: J. KEMP

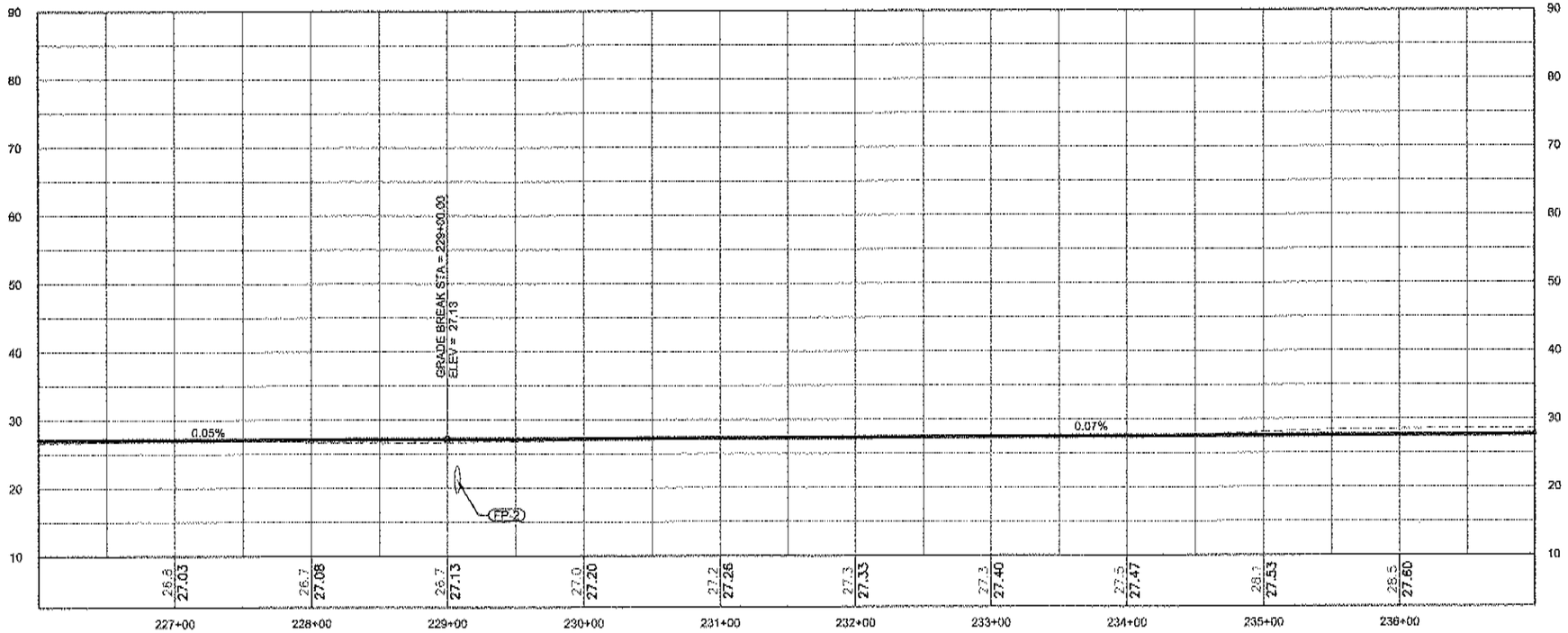
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION

HAINES
HIGHWAY
MP 3.5 TO MP 12
PROJECT #68606

PLAN & PROFILE

PROJECT DESIGNATION	
68606	
STATE	YEAR
ALASKA	2013
SHEET NUMBER	TOTAL SHEETS
F4	93





DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

PATH:B:\LIB\D59119 HNS DSN\950 DESIGN DRAWINGS\PLAN SET MP 3.5-12\F SHEETS\F1-F20.DWG
KEMP, JENNIFER
TAB: F5 Wednesday, May 15, 2013 2:43:02 PM

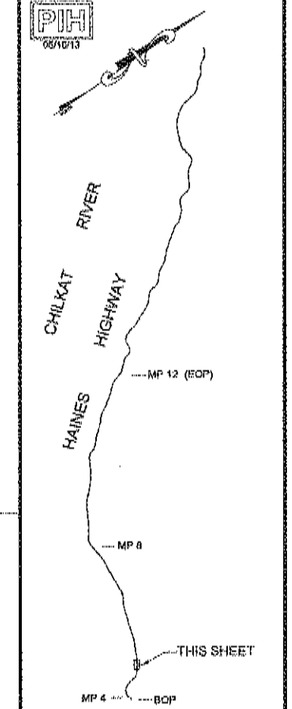
ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

PIH
05/16/13



CHECKED BY: K. KILPATRICK

STATE OF ALASKA
49th
STEVEN K. NOBLE
CE-10051
REGISTERED PROFESSIONAL ENGINEER

DESIGNED BY: N. HOBBS
DRAWN BY: J. KEMP

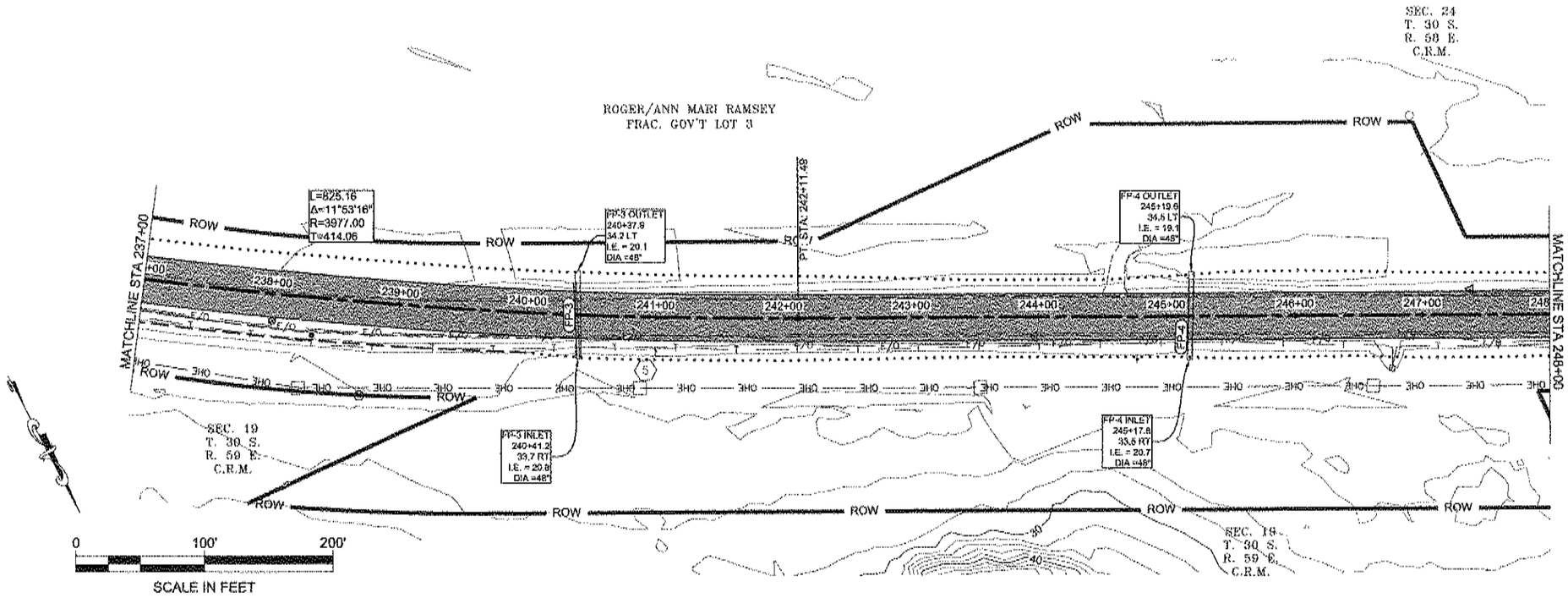
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION

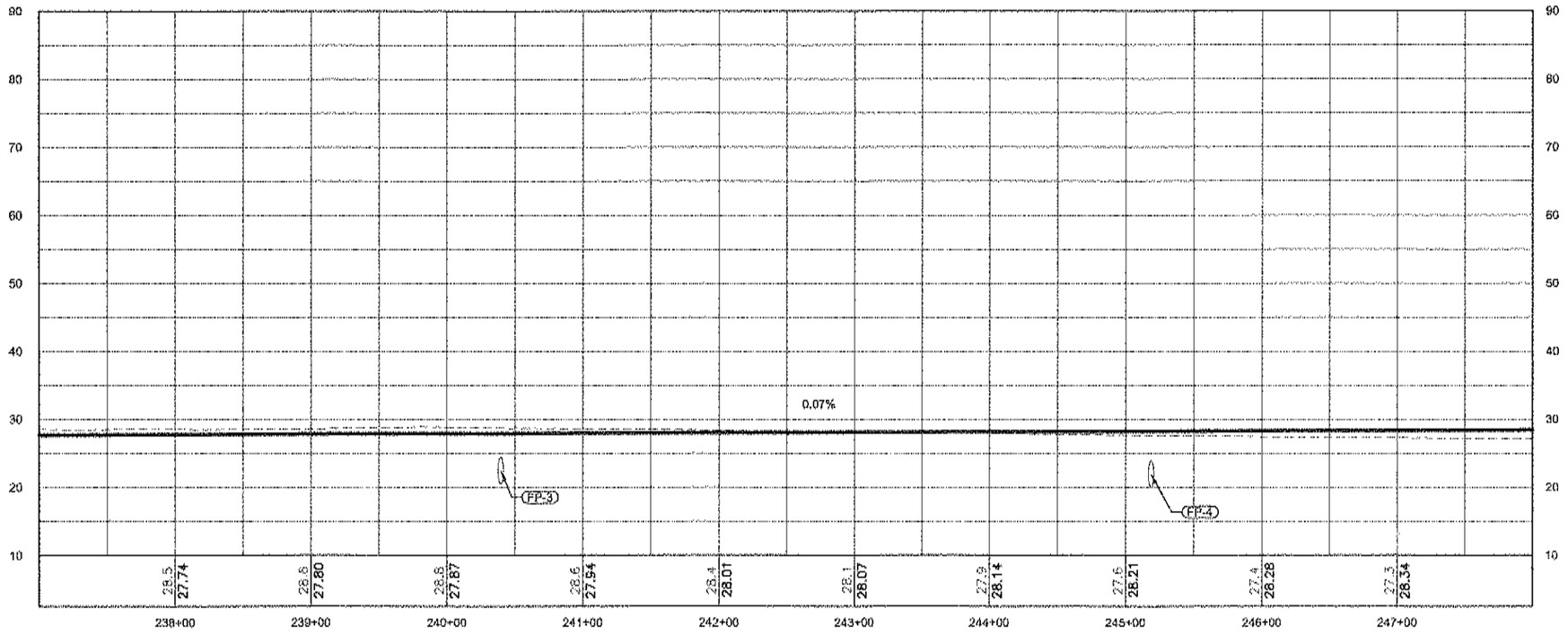
HAINES
HIGHWAY
MP 3.5 TO MP 12
PROJECT #68606

PLAN & PROFILE

PROJECT DESIGNATION
68606

STATE	YEAR
ALASKA	2013
SHEET NUMBER	TOTAL SHEETS
F5	93





DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

PATH: S:\LIB\D\68116 HNS DSN\850 DESIGN DRAWINGS\PLAN SET MP 3.5-12\F SHEETS\F1-F20.DWG
KEMP, JENNIFER
TAB: F6 Wednesday, May 15, 2013 2:43:13 PM

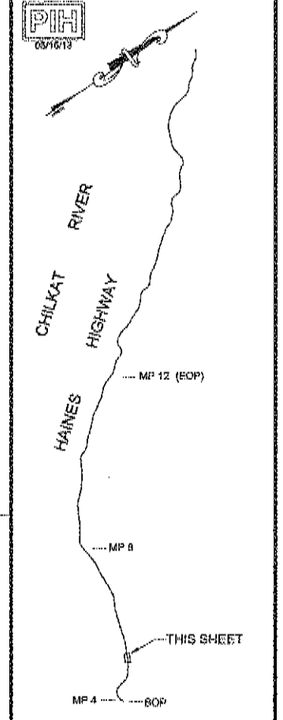
ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

PIH 05/16/13



CHECKED BY: K. KILPATRICK

STATE OF ALASKA
49th
STEVEN K. NOBLE
CE-10951
REGISTERED PROFESSIONAL ENGINEER

DESIGNED BY: N. HOBBS
DRAWN BY: J. KEMP

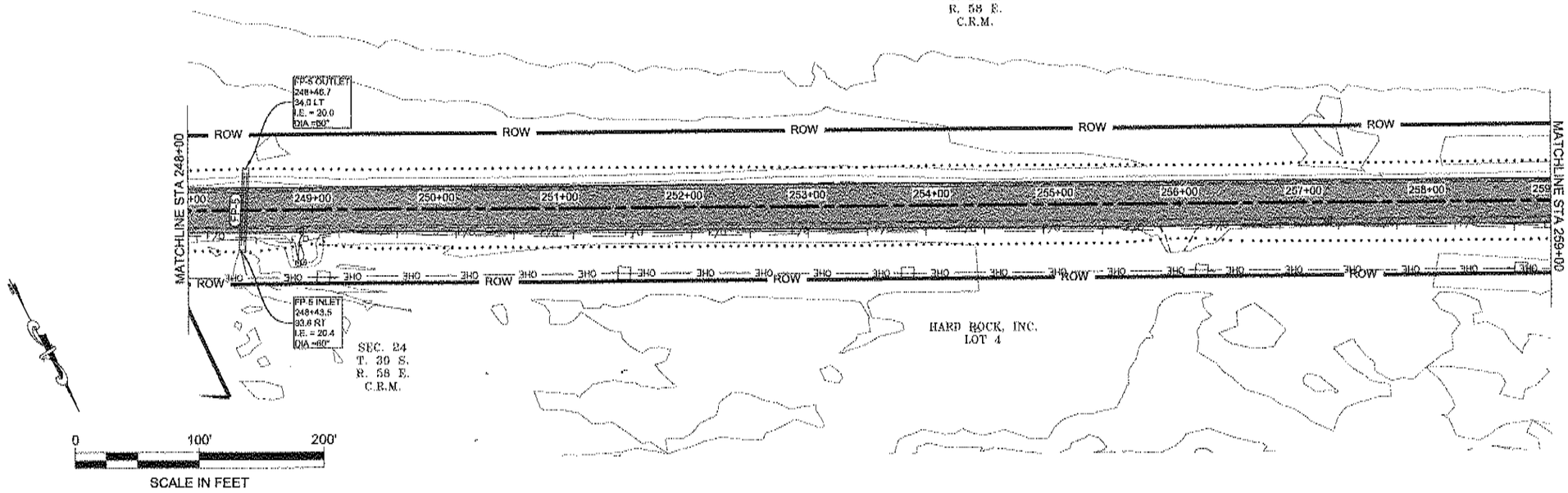
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION

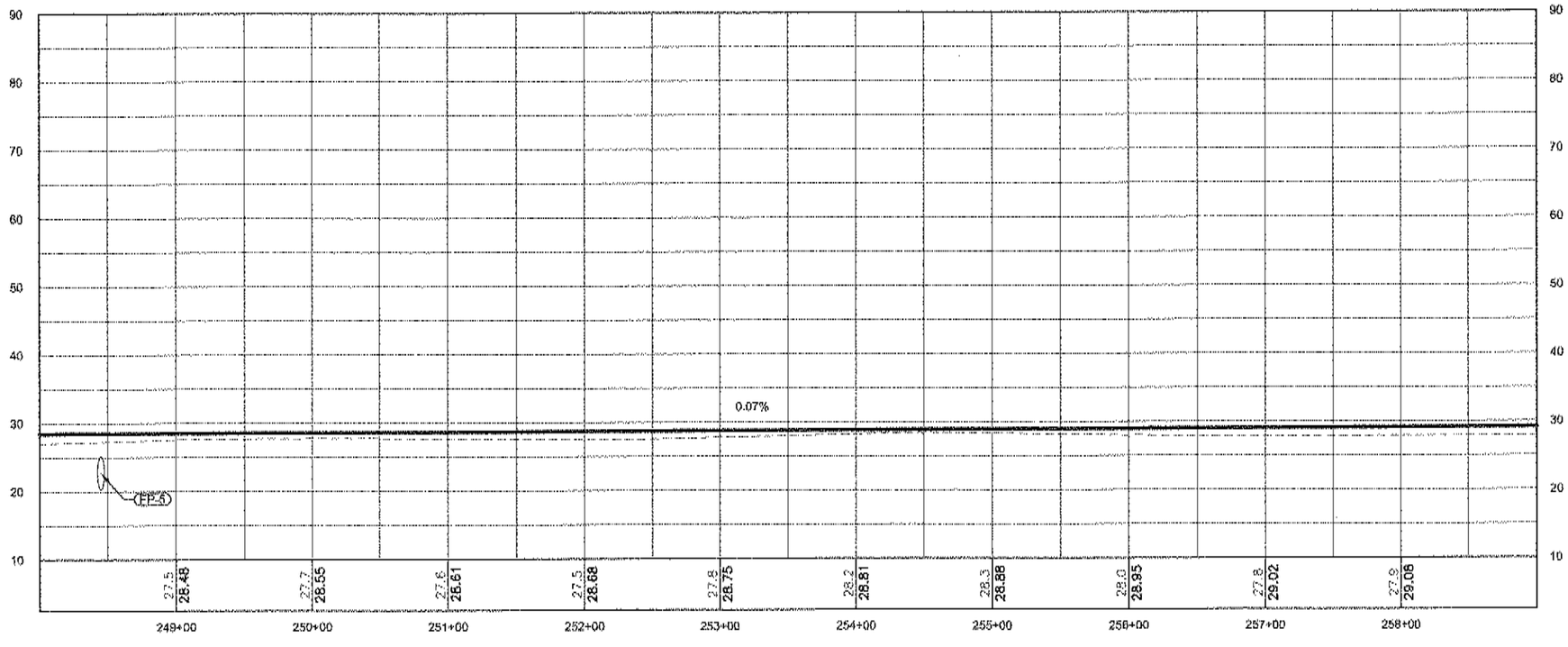
HAINES
HIGHWAY
MP 3.5 TO MP 12
PROJECT #68606

PLAN & PROFILE

PROJECT DESIGNATION
68606

STATE	YEAR
ALASKA	2013
SHEET NUMBER	TOTAL SHEETS
F6	93





DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

PATH: 9:\LIB\D59118 HNS 05N050 DESIGN DRAWINGS\PLAN SET MP 3.5-12\F SHEETS\F1-F20.DWG

KEMP, JENNIFER

TAB: F7 Wednesday, May 15, 2013 2:43:23 PM

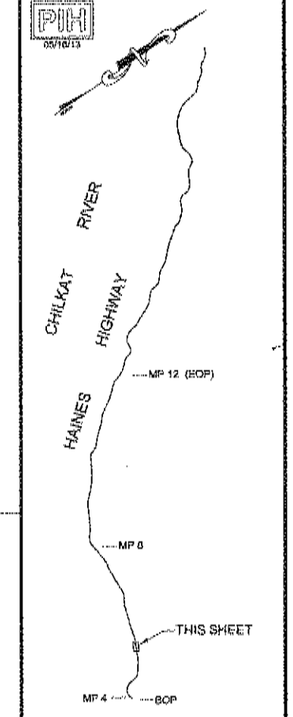
ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

PH
05/10/13



CHECKED BY: K. KILPATRICK

STATE OF ALASKA
49th
STEVEN K. NOBLE
CE-10051
REGISTERED PROFESSIONAL ENGINEER

DESIGNED BY: N. HOBBS

DRAWN BY: J. KEMP

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION

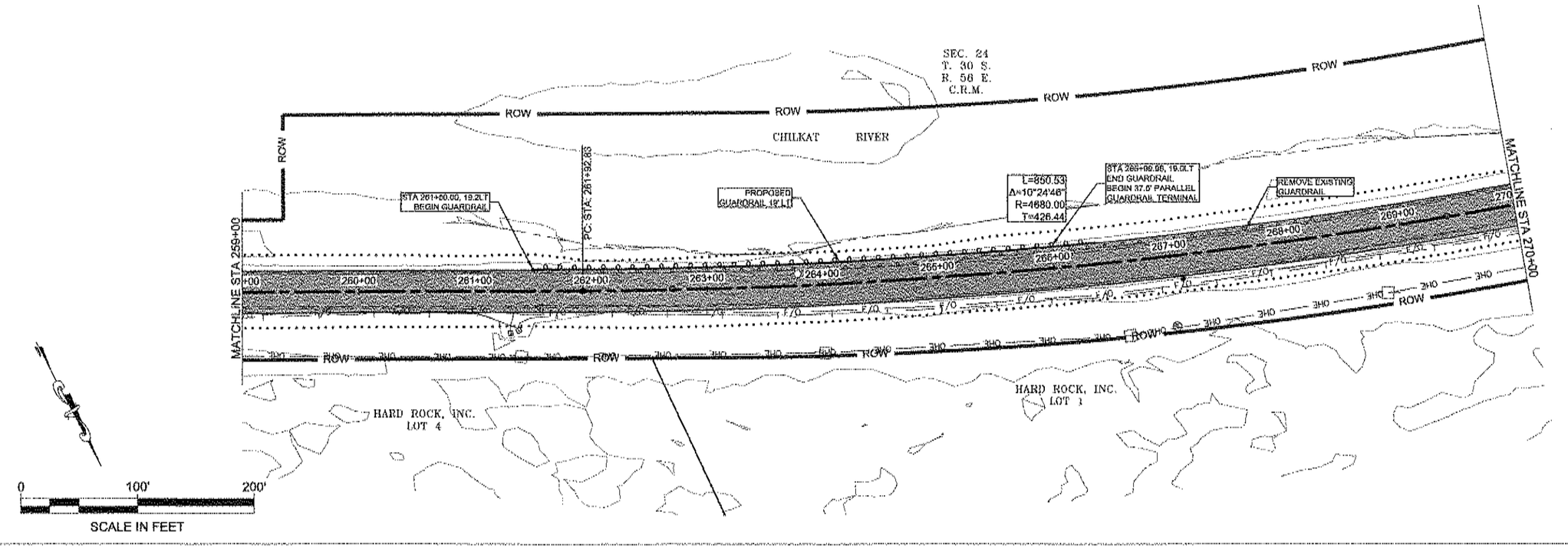
HAINES
HIGHWAY
MP 3.5 TO MP 12
PROJECT #68606

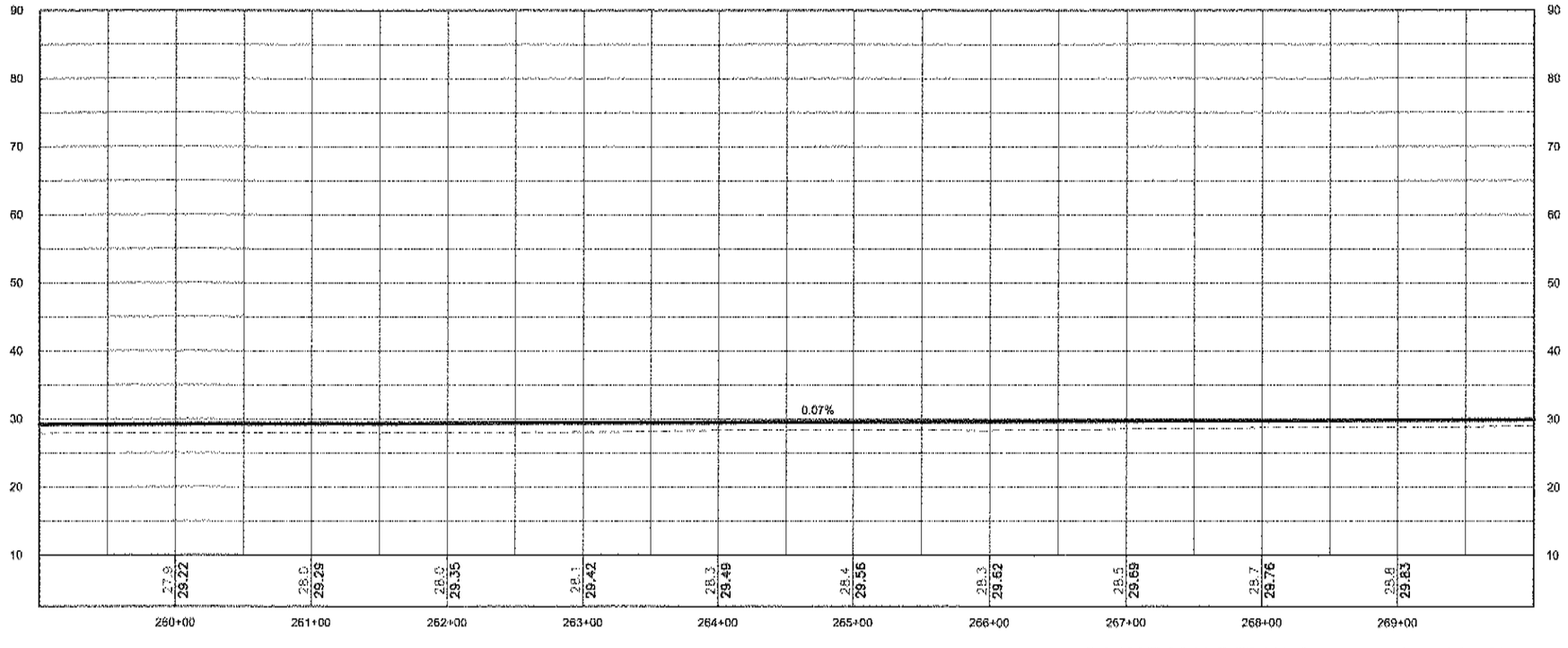
PLAN & PROFILE

PROJECT DESIGNATION

68606

STATE	YEAR
ALASKA	2013
SHEET NUMBER	TOTAL SHEETS
F7	93





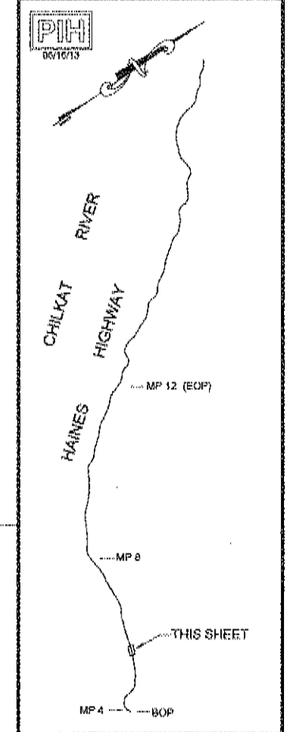
DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

PATH=S:\L66\DS\119 HNS DSN\050 DESIGN DRAWINGS\PLAN SET MP 3.5-12\F SHEETS\F1-F20.DWG
KEMP, JENNIFER
TAB: F8 Wednesday, May 15, 2013 2:43:34 PM

ADDENDUM NUMBER
ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION



CHECKED BY: K. KILPATRICK

STATE OF ALASKA
49th
STEVEN K. NOBLE
CE-10061
REGISTERED PROFESSIONAL ENGINEER

DESIGNED BY: N. HOBBS
DRAWN BY: J. KEMP

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION

HAINES
HIGHWAY
MP 3.5 TO MP 12
PROJECT #68606

PLAN & PROFILE

PROJECT DESIGNATION
68606

STATE	YEAR
ALASKA	2013
SHEET NUMBER	TOTAL SHEETS
F8	93

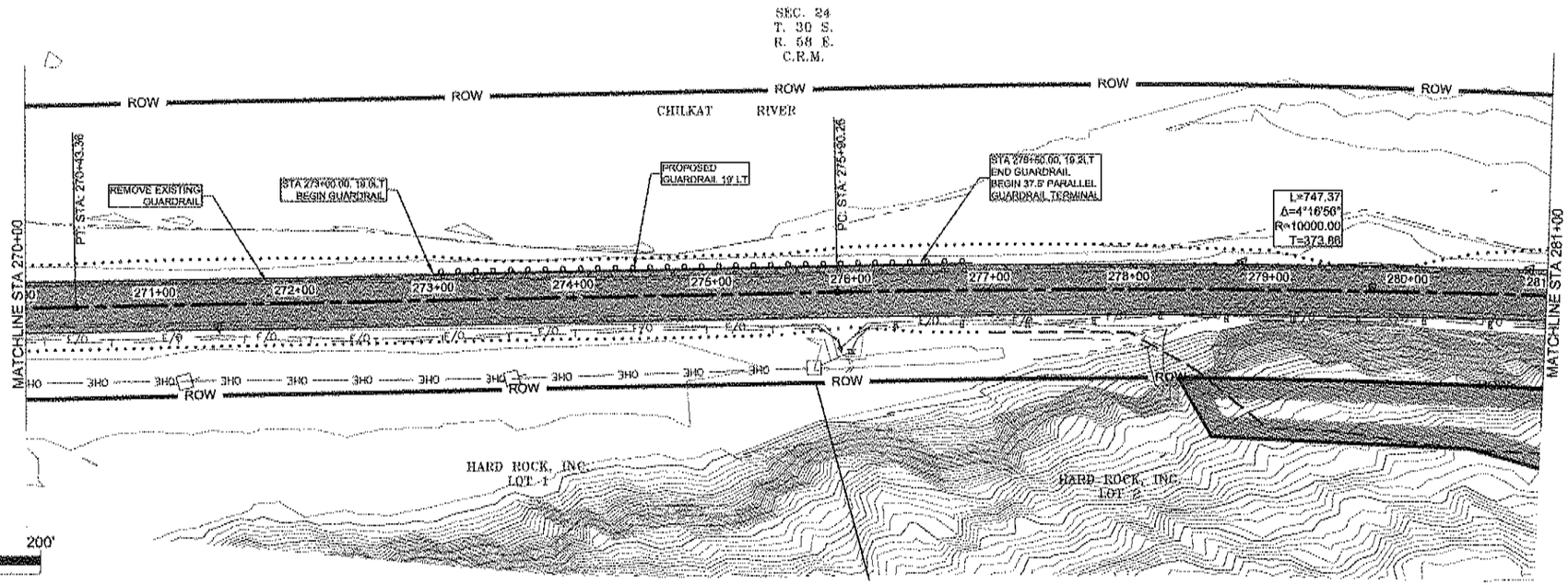
PATH:S:\JIB\D59119 HNS DSN\030 DESIGN DRAWINGS\PLAN SET MP 3.5-12\F SHEETS\F1-F20.DWG
KEMP, JENNIFER
TAB: F9 Wednesday, May 15, 2013 2:43:46 PM

ADDENDUM NUMBER

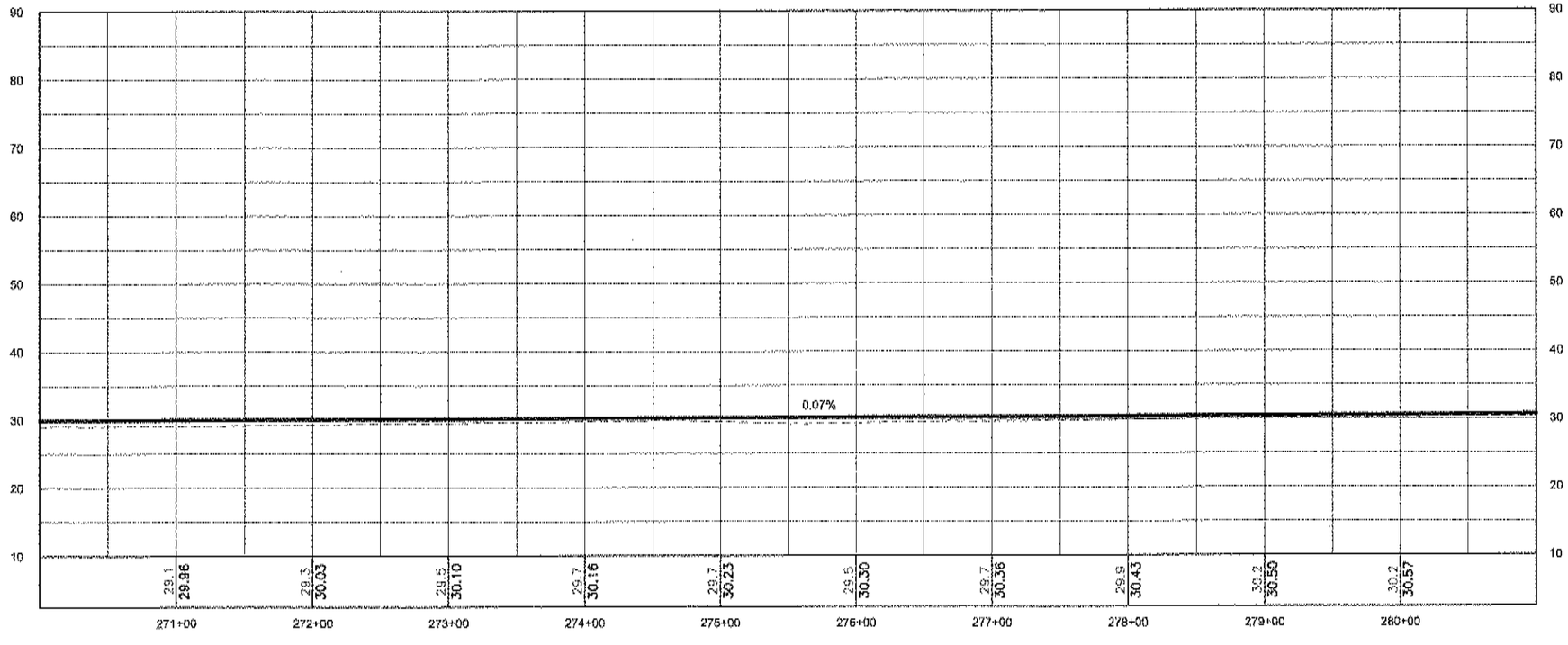
ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

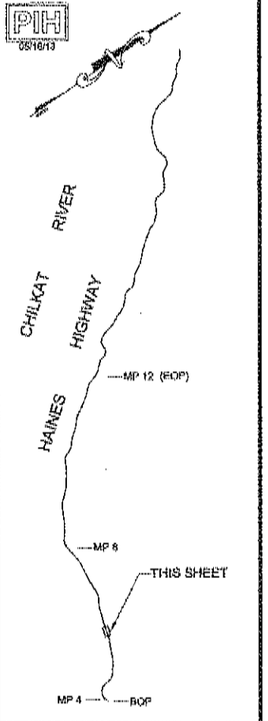


0 100' 200'
SCALE IN FEET



DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

PIH
05/16/13



CHECKED BY: K. KILPATRICK

STATE OF ALASKA
49th
STEVEN K. NOBLE
CE-10051
REGISTERED PROFESSIONAL ENGINEER

DESIGNED BY: N. HOBBS
DRAWN BY: J. KEMP

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION

HAINES
HIGHWAY
MP 3.5 TO MP 12
PROJECT #68606

PLAN & PROFILE

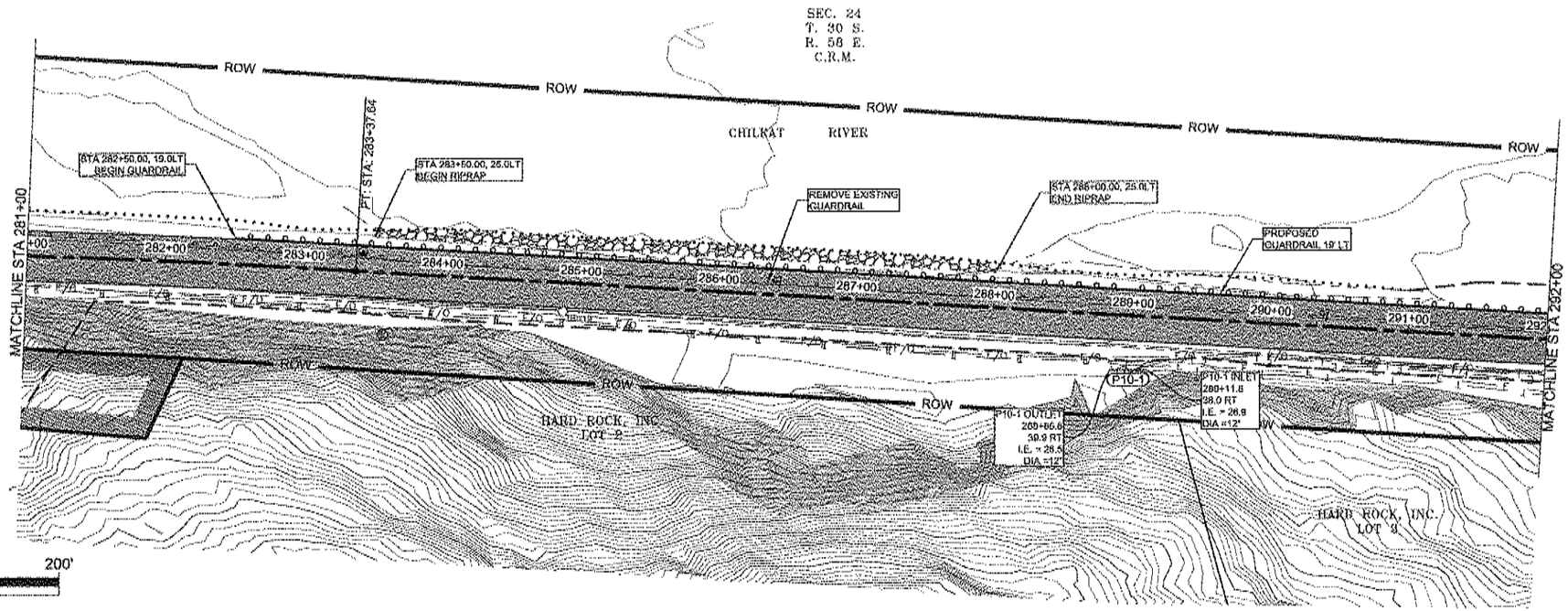
PROJECT DESIGNATION	
68606	
STATE	YEAR
ALASKA	2013
SHEET NUMBER	TOTAL SHEETS
F9	93

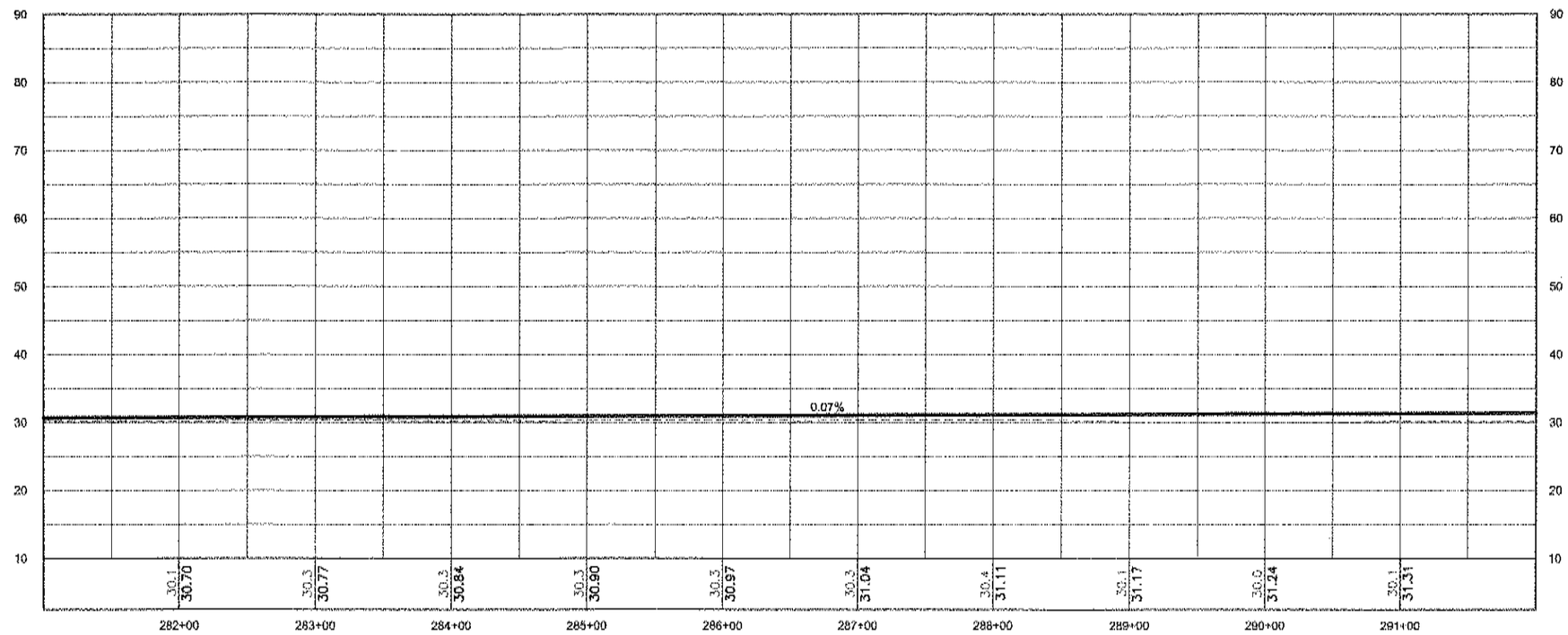
PATH: S:\LIB\DS\118 HNS DSN\050 DESIGN DRAWINGS\PLAN SET MP 3.5-12\F SHEETS\F1-F20.DWG
KEMP, JENNIFER
TAB: F10 Wednesday, May 15, 2013 2:43:56 PM

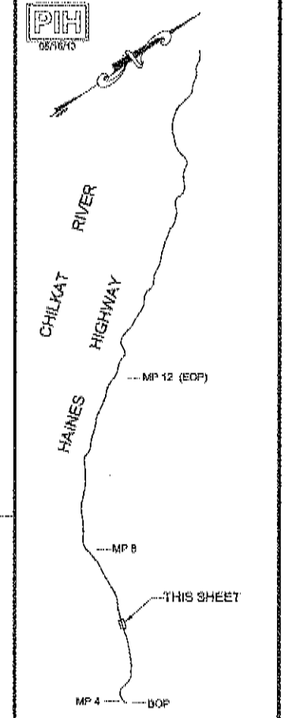
ADDENDUM NUMBER
ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION







CHECKED BY: K. KILPATRICK

STATE OF ALASKA
49th
STEVEN K. NOBLE
CE-10051
REGISTERED PROFESSIONAL ENGINEER

DESIGNED BY: N. HOBBS
DRAWN BY: J. KEMP

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION

HAINES
HIGHWAY
MP 3.5 TO MP 12
PROJECT #68606

PLAN & PROFILE

PROJECT DESIGNATION	
68606	
STATE	YEAR
ALASKA	2013
SHEET NUMBER	TOTAL SHEETS
F10	93

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

PATH: S:\LIB\D59116 HNS DSN\050 DESIGN DRAWINGS\PLAN SET MP 3.5-12\F SHEETS\F1-F20.DWG
KEMP, JENNIFER
TAB: F11 Wednesday, May 15, 2013 2:44:08 PM

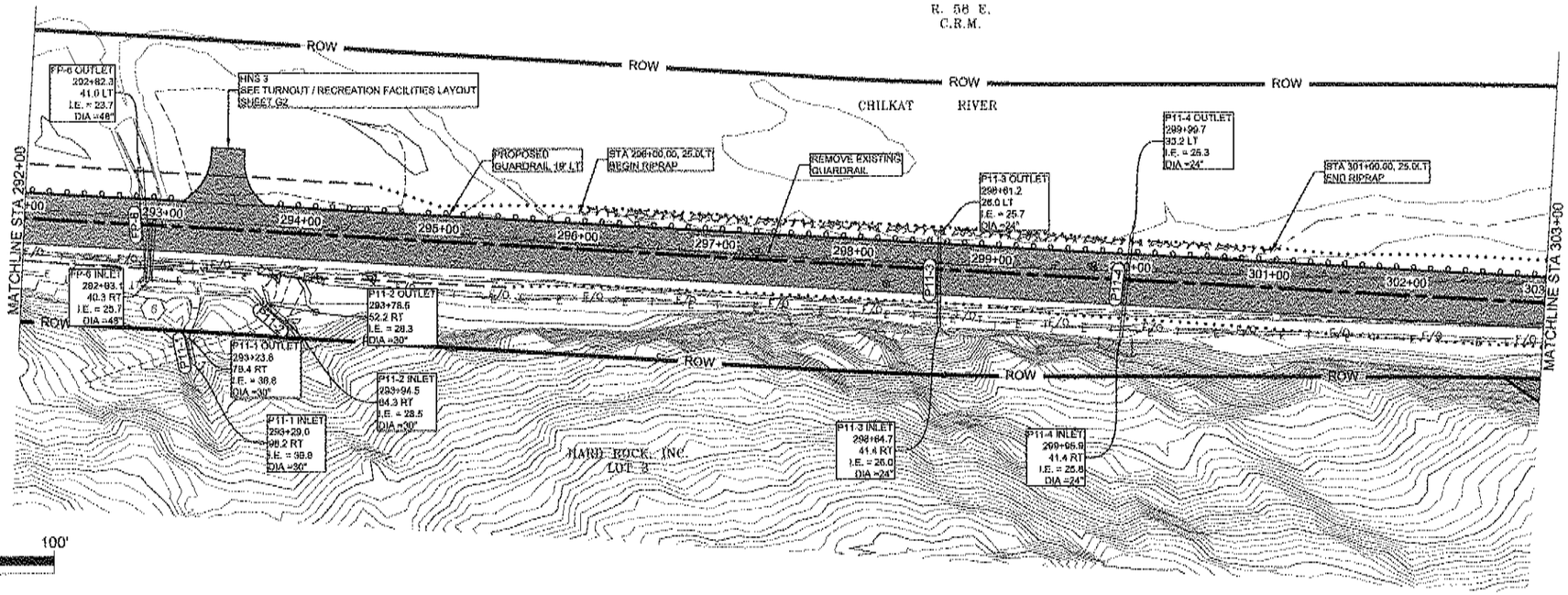
ADDENDUM NUMBER

ATTACHMENT NUMBER

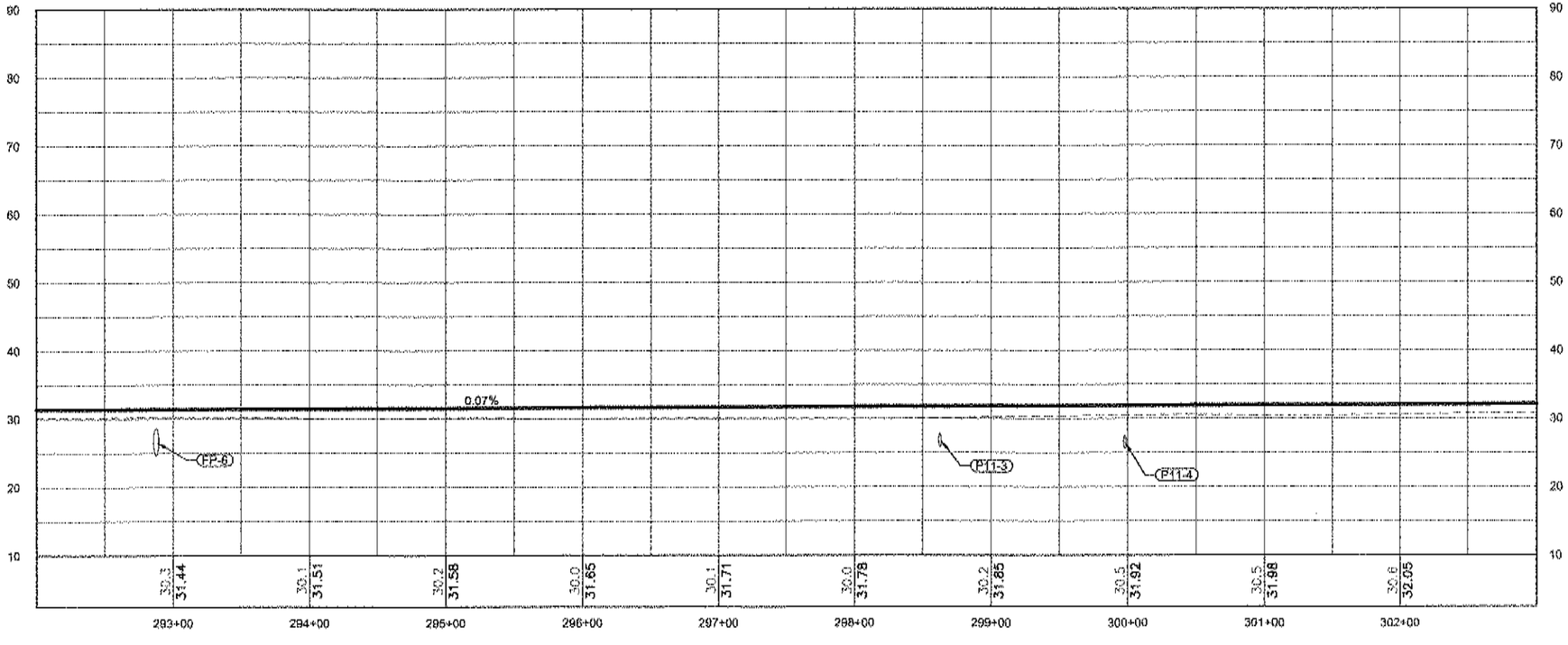
RECORD OF REVISIONS

No.	DATE	DESCRIPTION

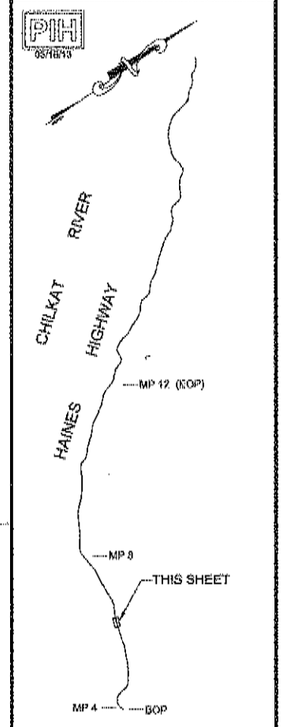
SEC. 24
T. 30 S.
R. 58 E.
C.R.M.



0 50' 100'
SCALE IN FEET



DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS



CHECKED BY: K. KILPATRICK

STATE OF ALASKA
49th
STEVEN K. NOBLE
CE-10051
REGISTERED PROFESSIONAL ENGINEER

DESIGNED BY: N. HOBBS

DRAWN BY: J. KEMP

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION

HAINES
HIGHWAY
MP 3.5 TO MP 12
PROJECT #68606

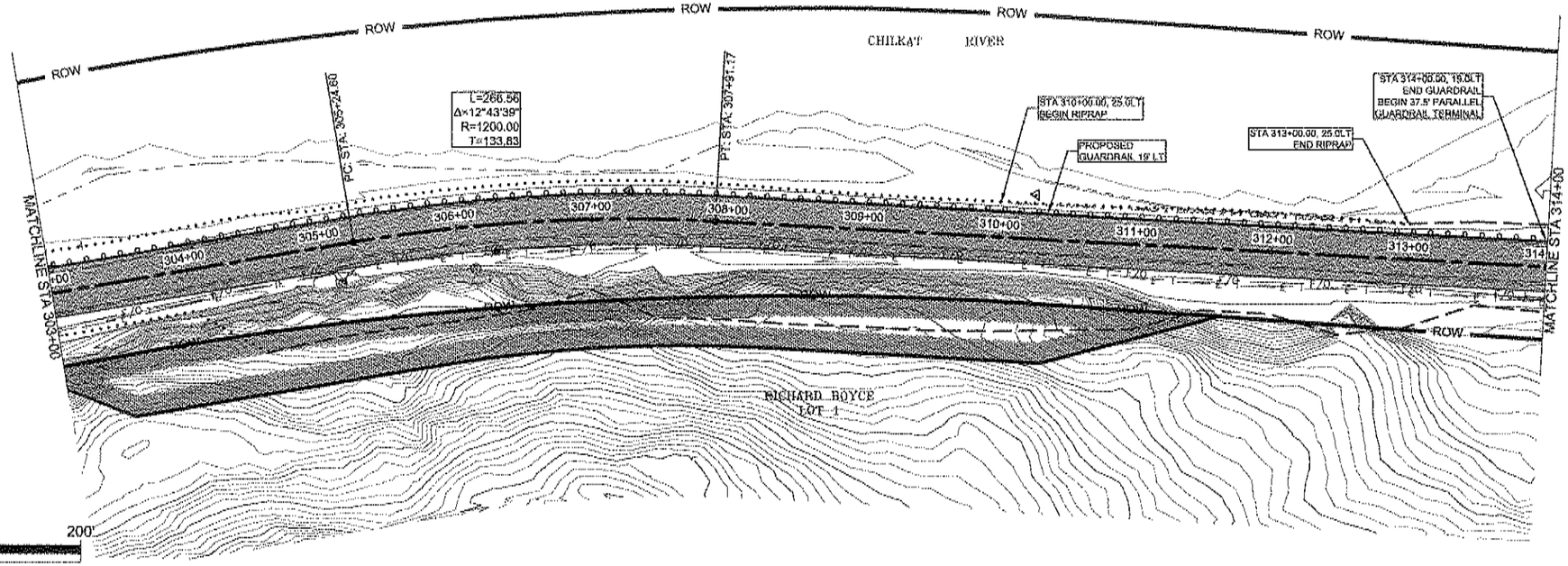
PLAN & PROFILE

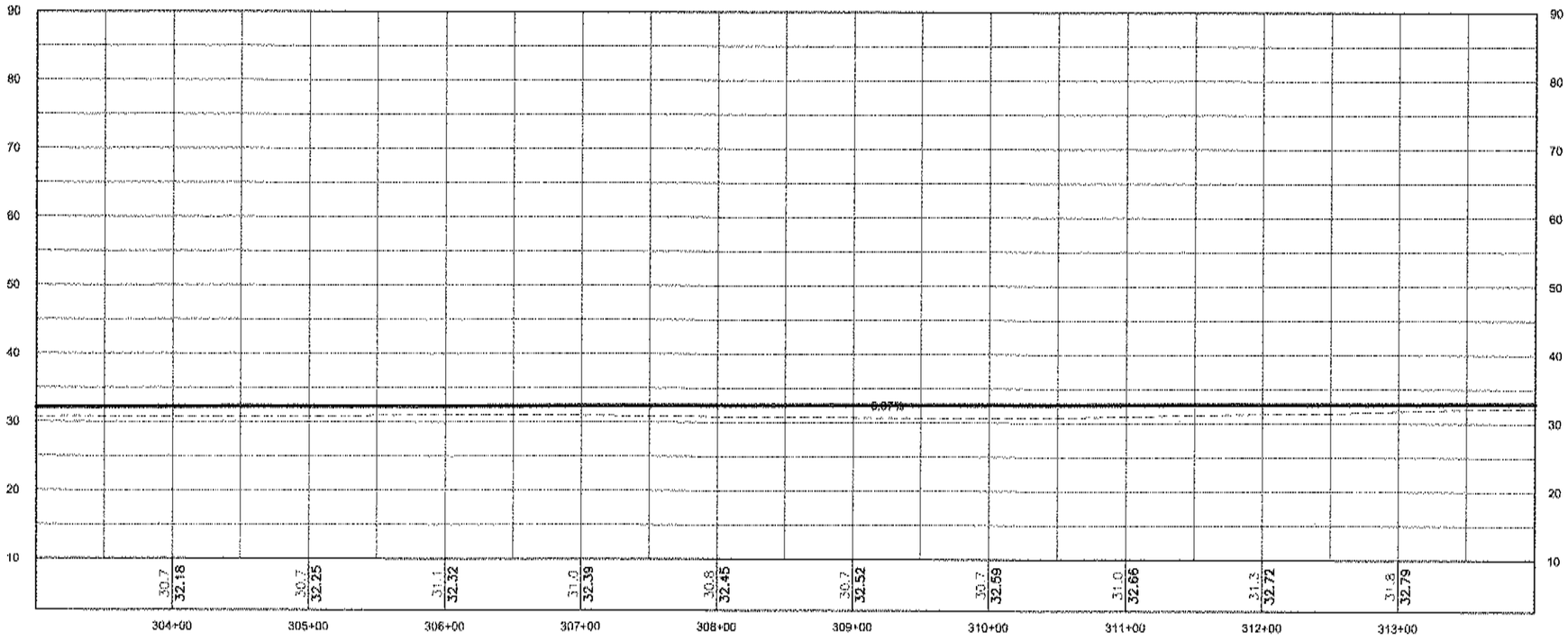
PROJECT DESIGNATION

68606

STATE	YEAR
ALASKA	2013
SHEET NUMBER	TOTAL SHEETS
F11	93

SEC. 23
T. 30 S.
R. 58 E.
C.R.M.





DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

PATH: S:\LIB\59119 HNS DSN\050 DESIGN DRAWINGS\PLAN SET MP 3.5-12\F SHEETS\F1-F20.DWG

KEMP, JENNIFER

TAB: F12 Wednesday, May 15, 2013 2:44:20 PM

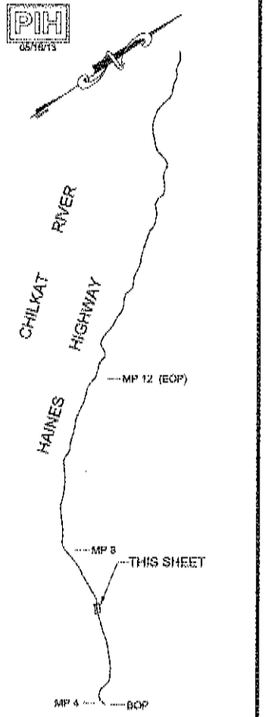
ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

PIH
05/16/13



CHECKED BY: K. KILPATRICK

STATE OF ALASKA
49th
STEVEN K. NOBLE
CE-10051
REGISTERED PROFESSIONAL ENGINEER

DESIGNED BY: N. HOBBS

DRAWN BY: J. KEMP

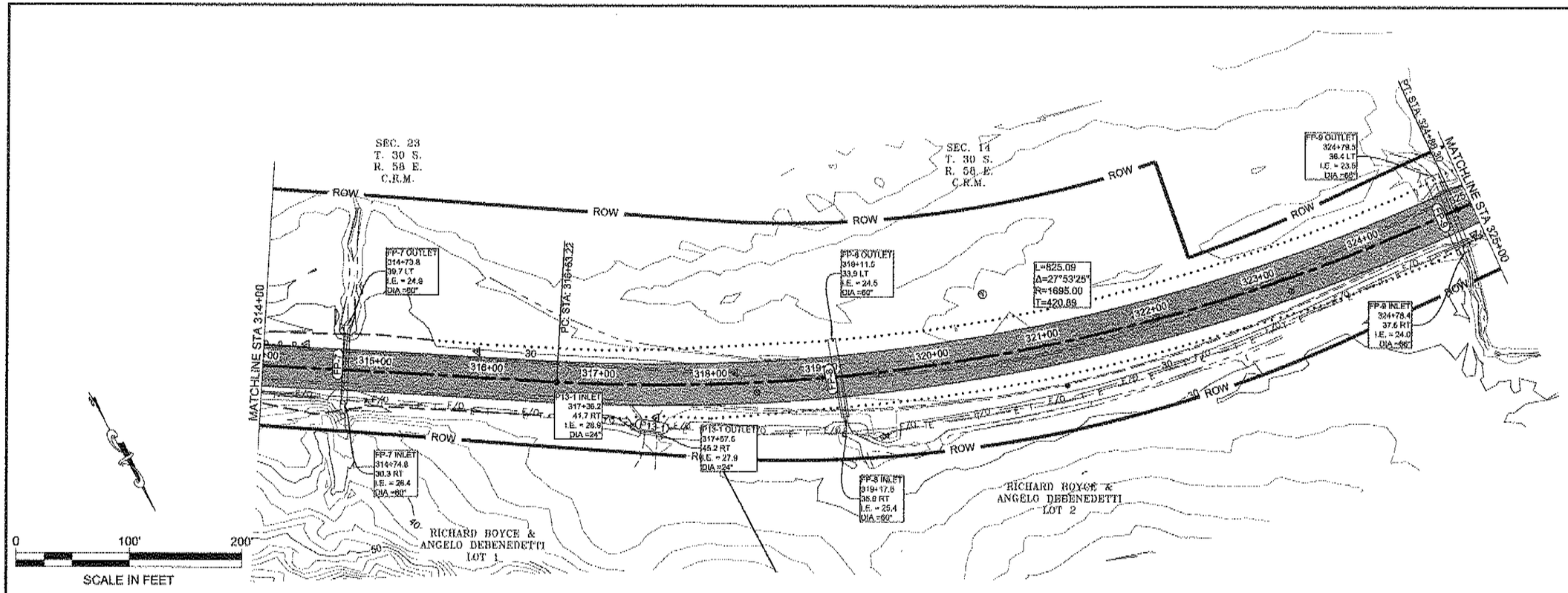
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION

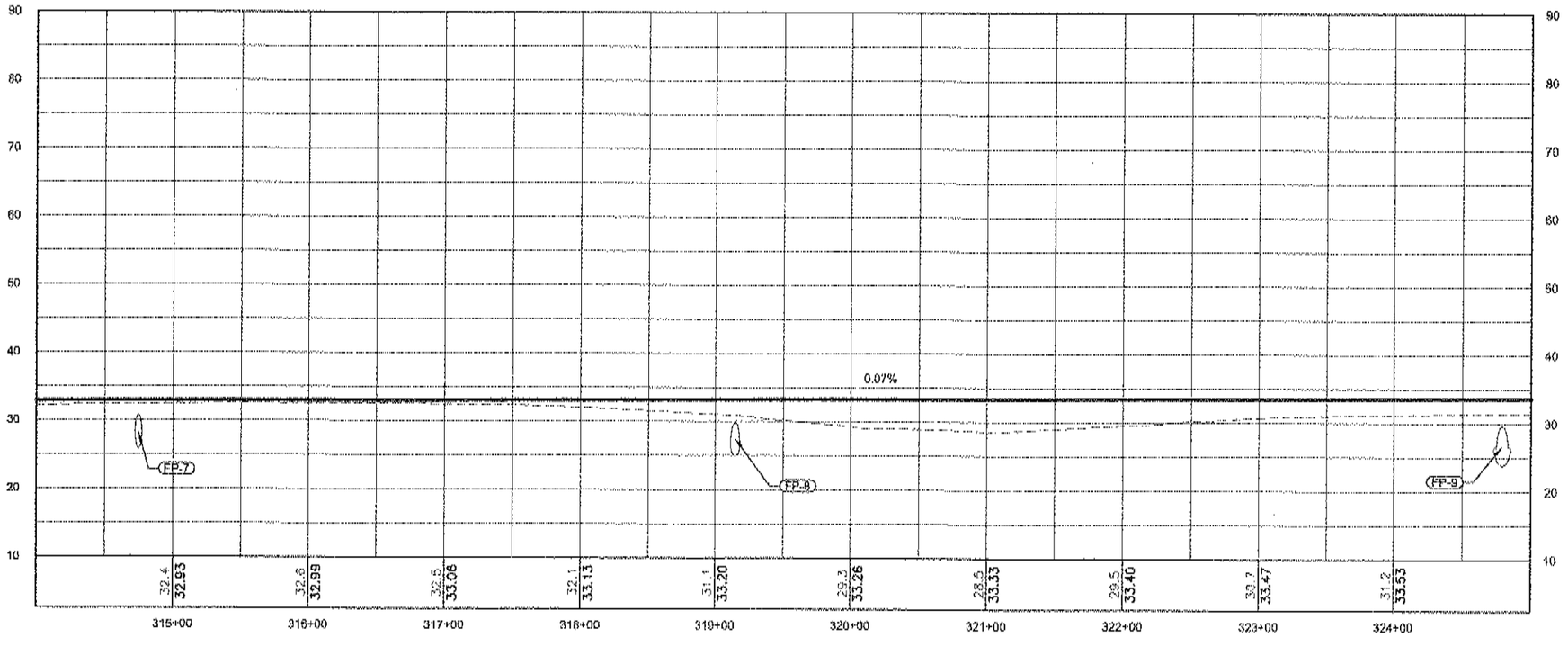
HAINES
HIGHWAY
MP 3.5 TO MP 12
PROJECT #68606

PLAN & PROFILE

PROJECT DESIGNATION
68606

STATE	YEAR
ALASKA	2013
SHEET NUMBER	TOTAL SHEETS
F12	93





DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

PATH: S:\LIB\D59119 HNS DSN\050 DESIGN DRAWINGS\PLAN SET MP 3.5-12\F SHEETS\F1-F20.DWG

KEMP, JENNIFER

TAB: F13 Wednesday, May 15, 2013 2:44:31 PM

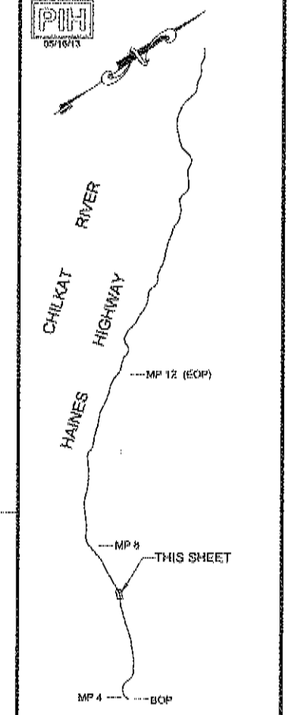
ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

PIH 05/16/13



CHECKED BY: K. KILPATRICK

STATE OF ALASKA
49th
STEVEN K. NOBLE
CE-10081
REGISTERED PROFESSIONAL ENGINEER

DESIGNED BY: N. NOBBS

DRAWN BY: J. KEMP

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION

HAINES
HIGHWAY
MP 3.5 TO MP 12
PROJECT #68606

PLAN & PROFILE

PROJECT DESIGNATION	
68606	
STATE	YEAR
ALASKA	2013
SHEET NUMBER	TOTAL SHEETS
F13	93

PATH: S:\LIB\D59118 HNG DSN\050 DESIGN DRAWINGS\PLAN SET MP 3.5-12\F SHEETS\F1-F20.DWG
KEMP, JENNIFER
TAB: F14 Wednesday, May 15, 2013 2:44:42 PM

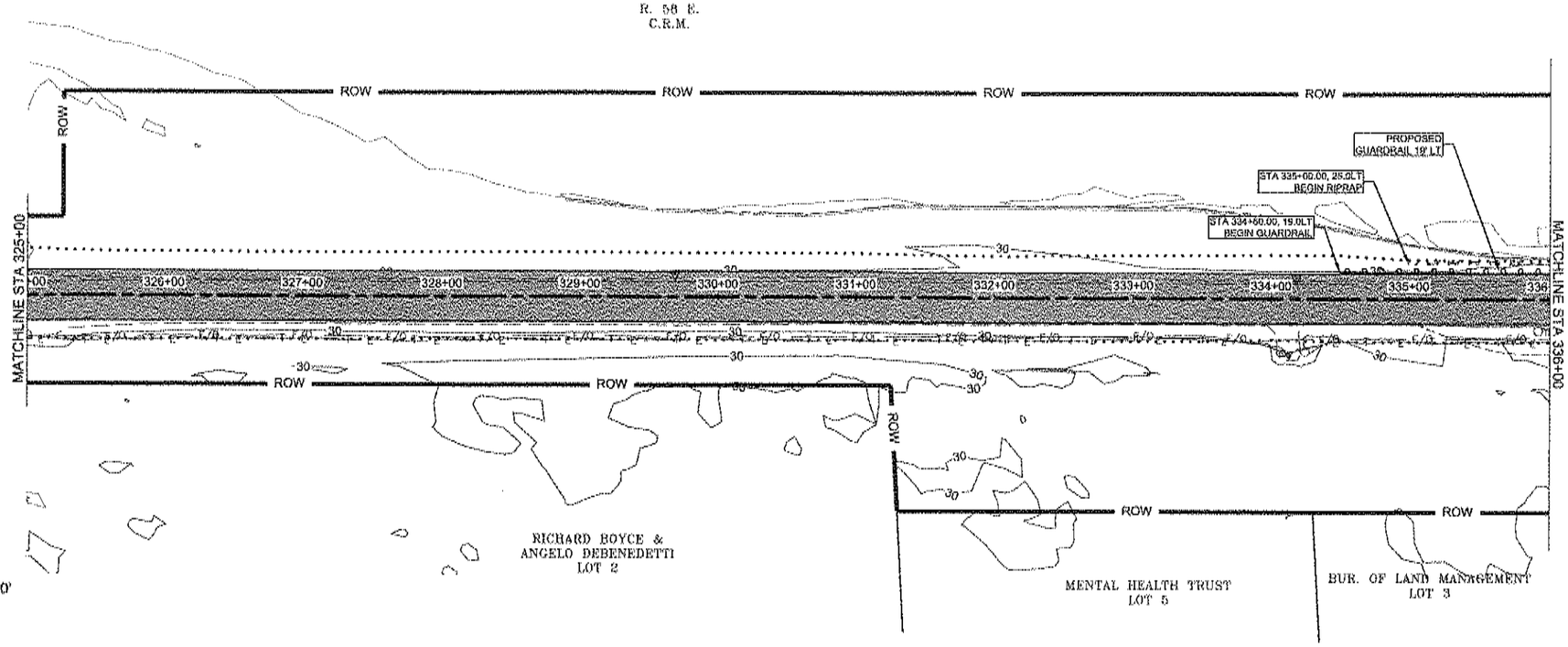
ADDENDUM NUMBER

ATTACHMENT NUMBER

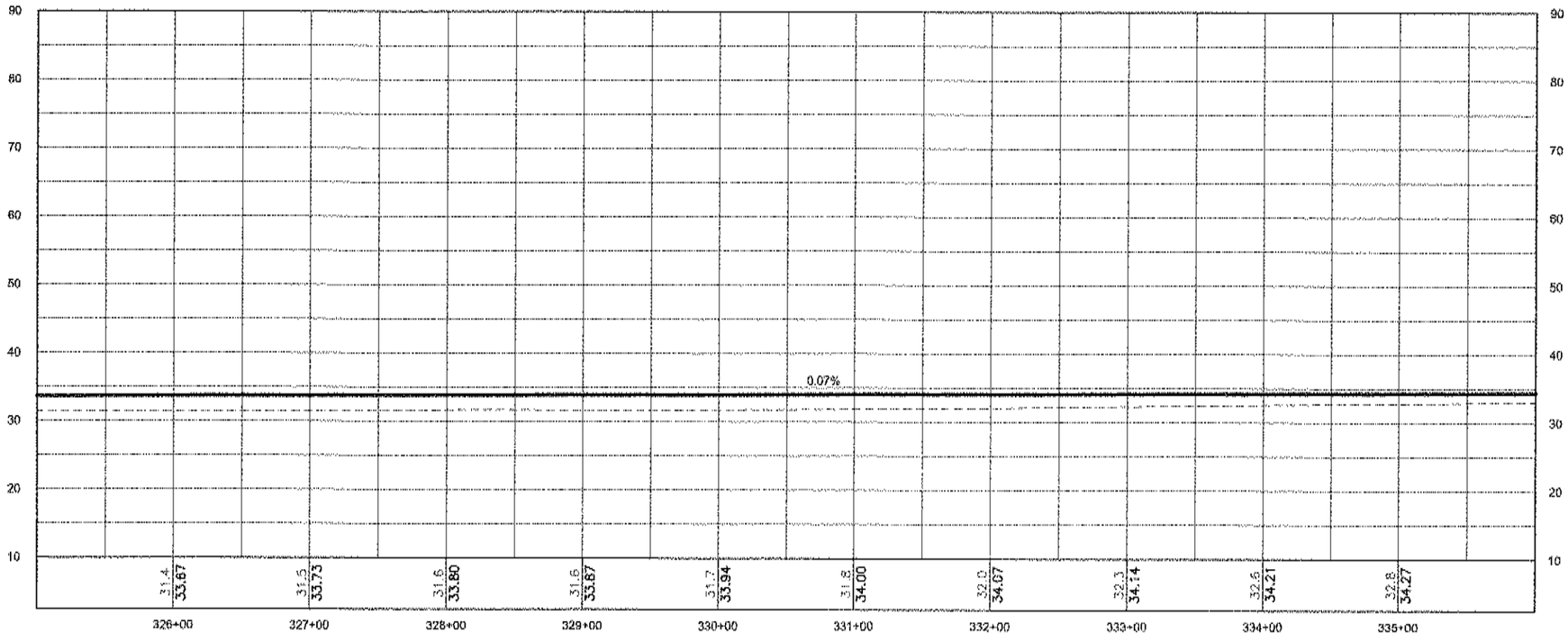
RECORD OF REVISIONS

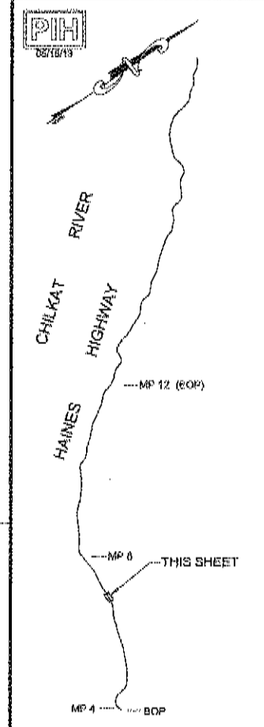
No.	DATE	DESCRIPTION

SEC.14
T. 30 S.
R. 58 E.
C.R.M.



0 100' 200'
SCALE IN FEET





CHECKED BY: K. KILPATRICK

STATE OF ALASKA
49th
STEVEN K. NOBLE
CE-10091
REGISTERED PROFESSIONAL ENGINEER

DESIGNED BY: N. HOBBS
DRAWN BY: J. KEMP

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SOUTHEAST REGION

HAINES
HIGHWAY
MP 3.5 TO MP 12
PROJECT #68606

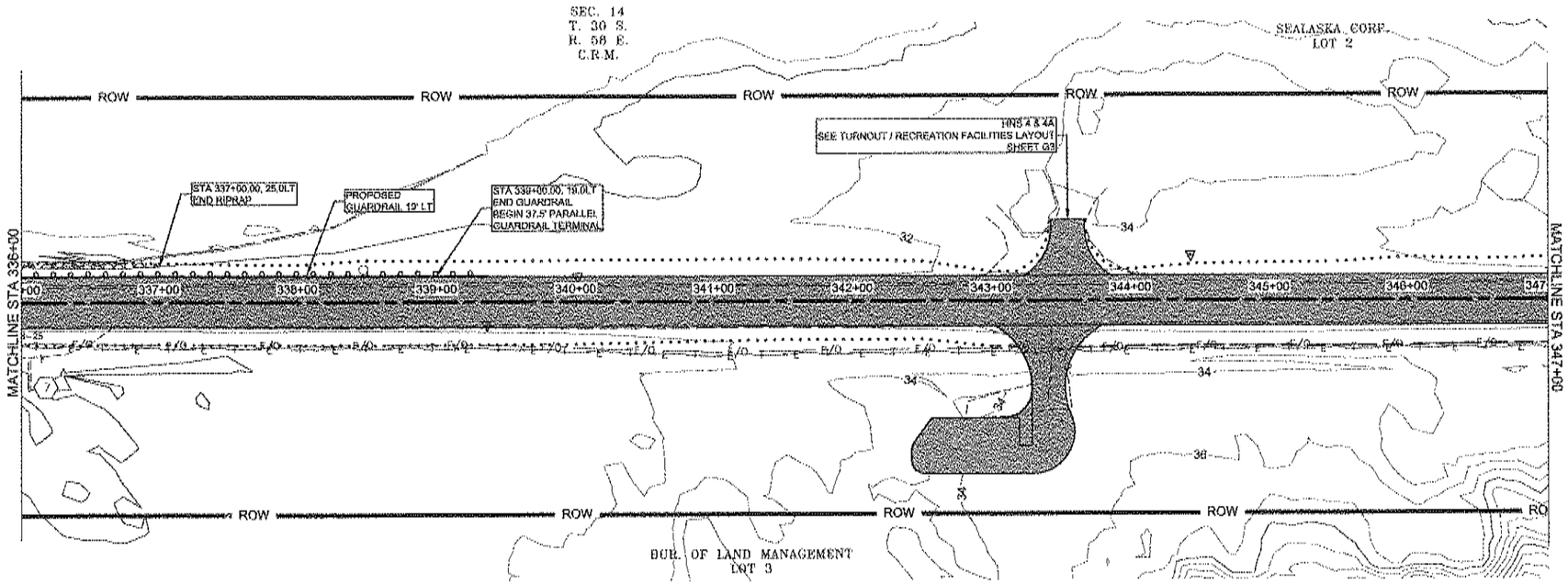
PLAN & PROFILE

PROJECT DESIGNATION
68606

STATE	YEAR
ALASKA	2013

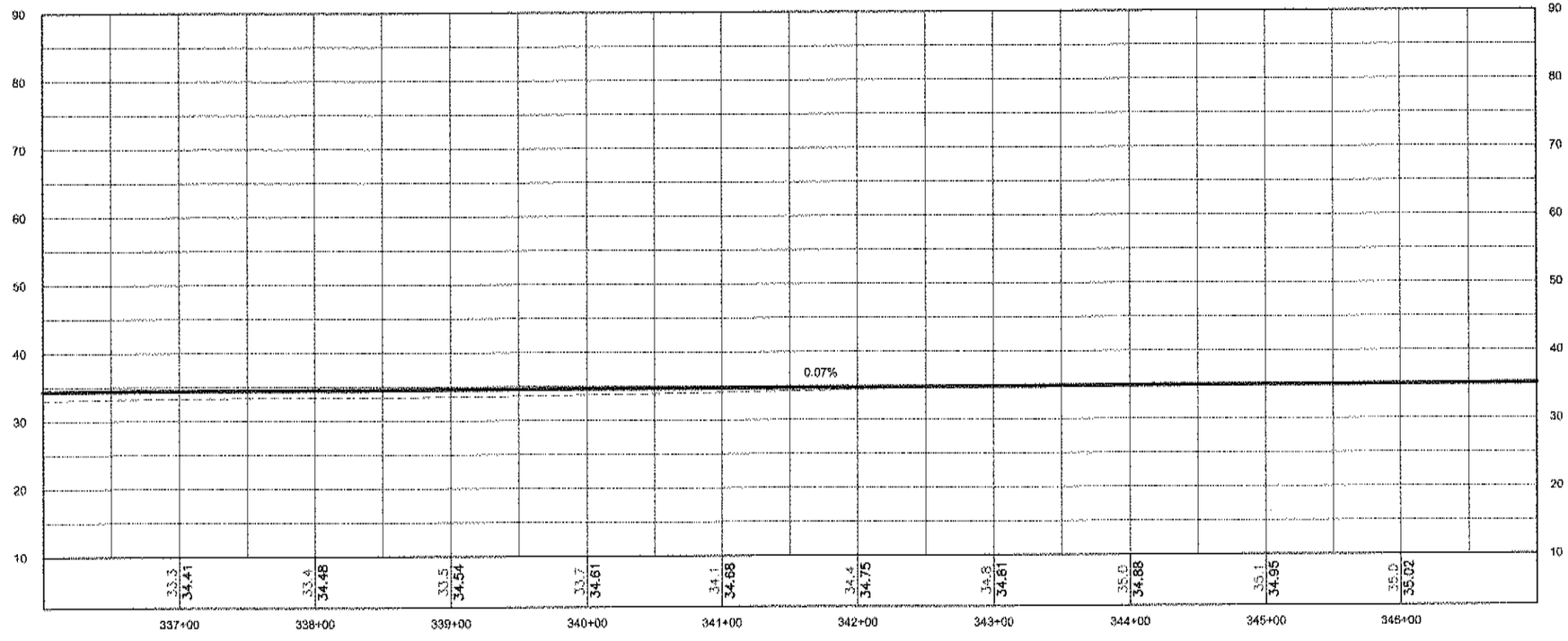
SHEET NUMBER	TOTAL SHEETS
F14	93

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS



0 100' 200'

SCALE IN FEET



DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

PATH: S:\LIB\D\59113 HNS DSN\050 DESIGN DRAWINGS\PLAN SET MP 3.5-12\F SHEETS\F1-F29.DWG

KEMP, JENNIFER

TAB: F15 Wednesday, May 15, 2013 2:44:53 PM

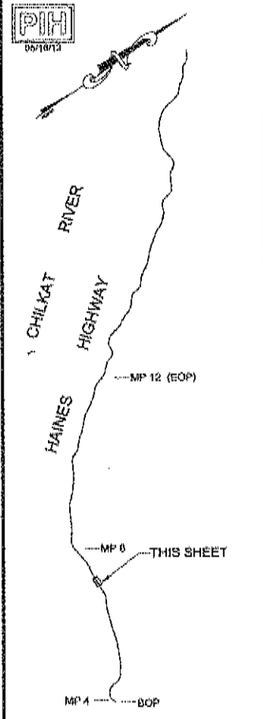
ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

PIH 05/10/13



CHECKED BY: K. KILPATRICK

STATE OF ALASKA 49th
STEVEN K. NOBLE CE-10051
REGISTERED PROFESSIONAL ENGINEER

DESIGNED BY: N. HOBBS

DRAWN BY: J. KEMP

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SOUTHEAST REGION

HAINES
HIGHWAY
MP 3.5 TO MP 12
PROJECT #68606

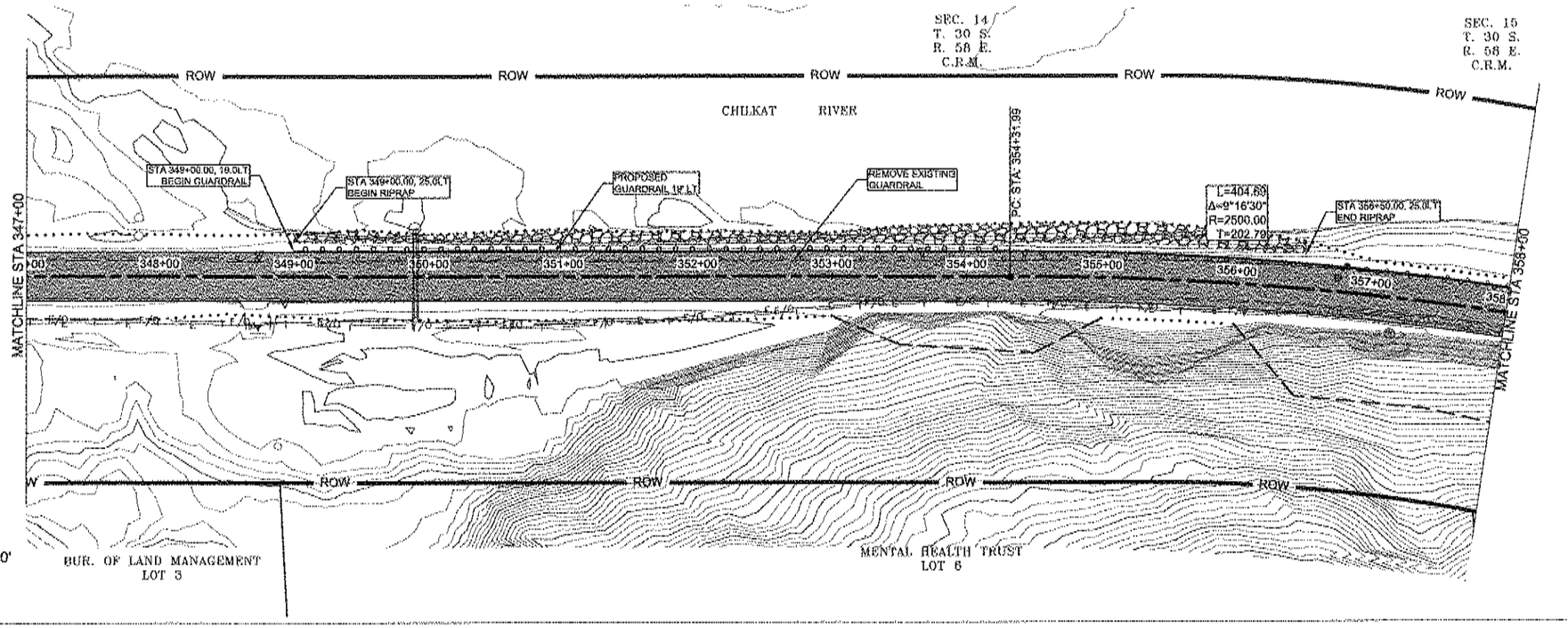
PLAN & PROFILE

PROJECT DESIGNATION

68606

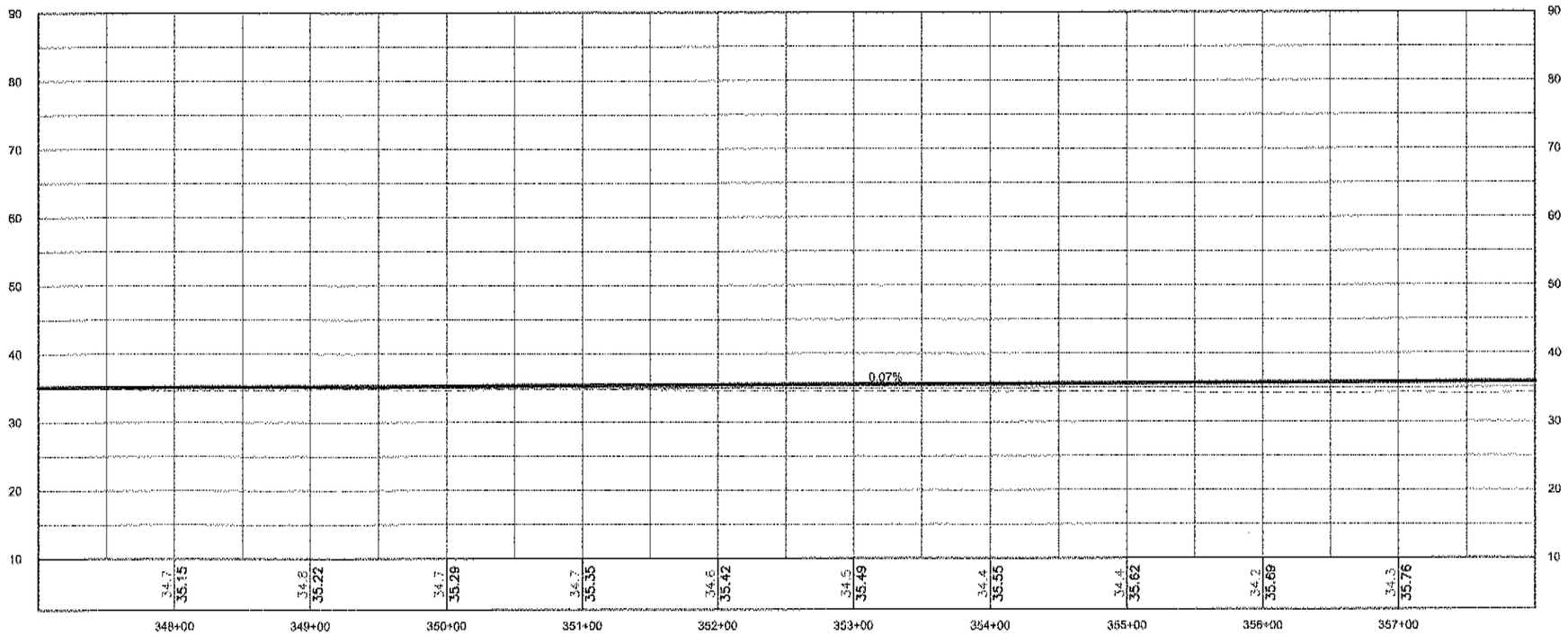
STATE	YEAR
ALASKA	2013

SHEET NUMBER	TOTAL SHEETS
F15	93



0 100' 200'

SCALE IN FEET



DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

PATH: S:\L16\DS9119 HNS DSN\050 DESIGN DRAWINGS\PLAN SET MP 3.5-12\F SHEETS\F1-F20.DWG

KEMP, JENNIFER

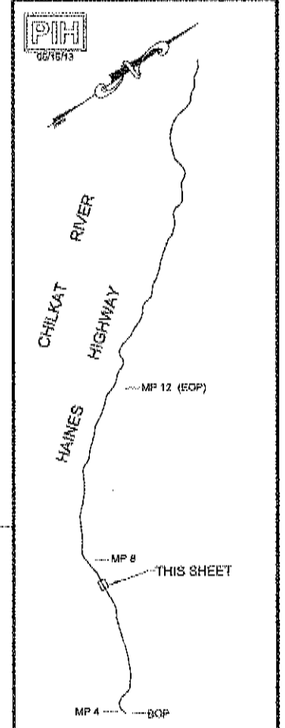
TAB: F16 Wednesday, May 15, 2013 2:45:03 PM

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION



CHECKED BY: K. KILPATRICK

STATE OF ALASKA
49th
STEVEN K. NOBLE
CE-10051
REGISTERED AND LICENSED ENGINEER

DESIGNED BY: N. HOBBS

DRAWN BY: J. KEMP

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION

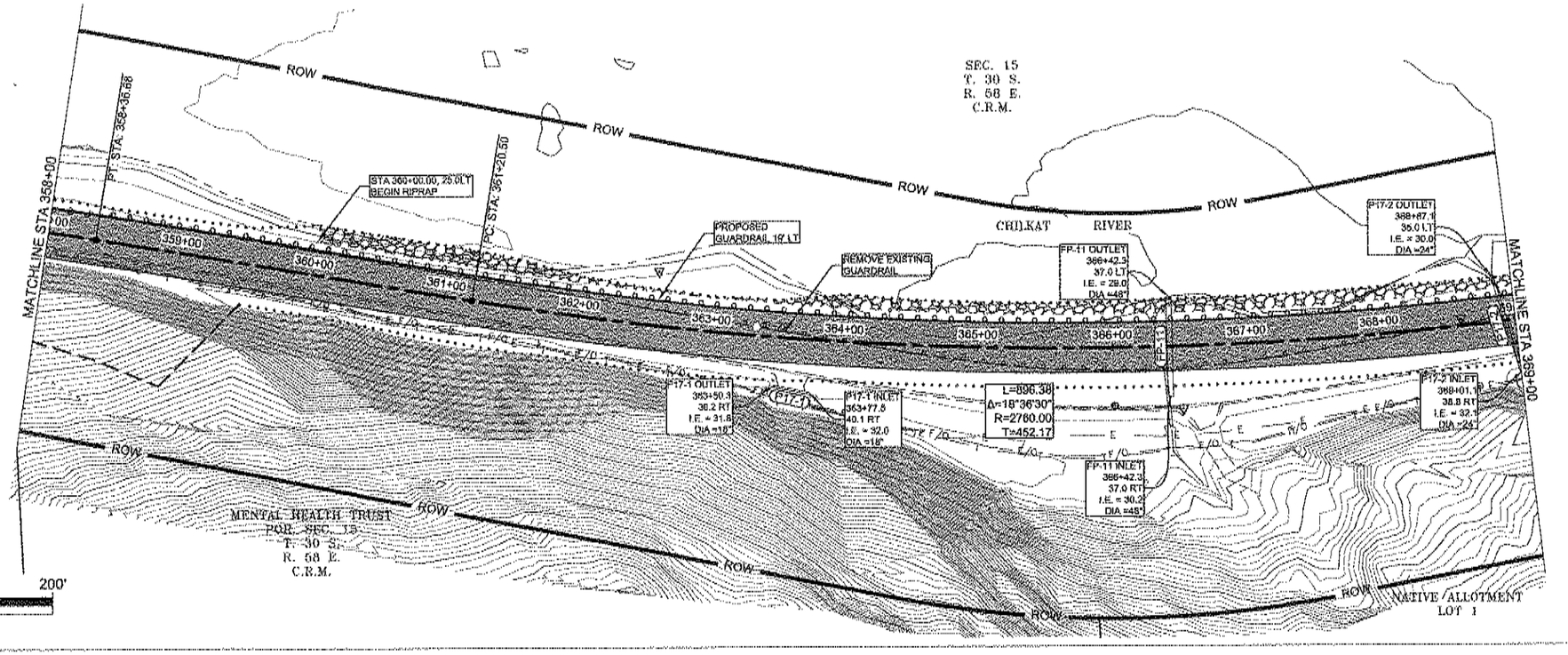
HAINES
HIGHWAY
MP 3.5 TO MP 12
PROJECT #68606

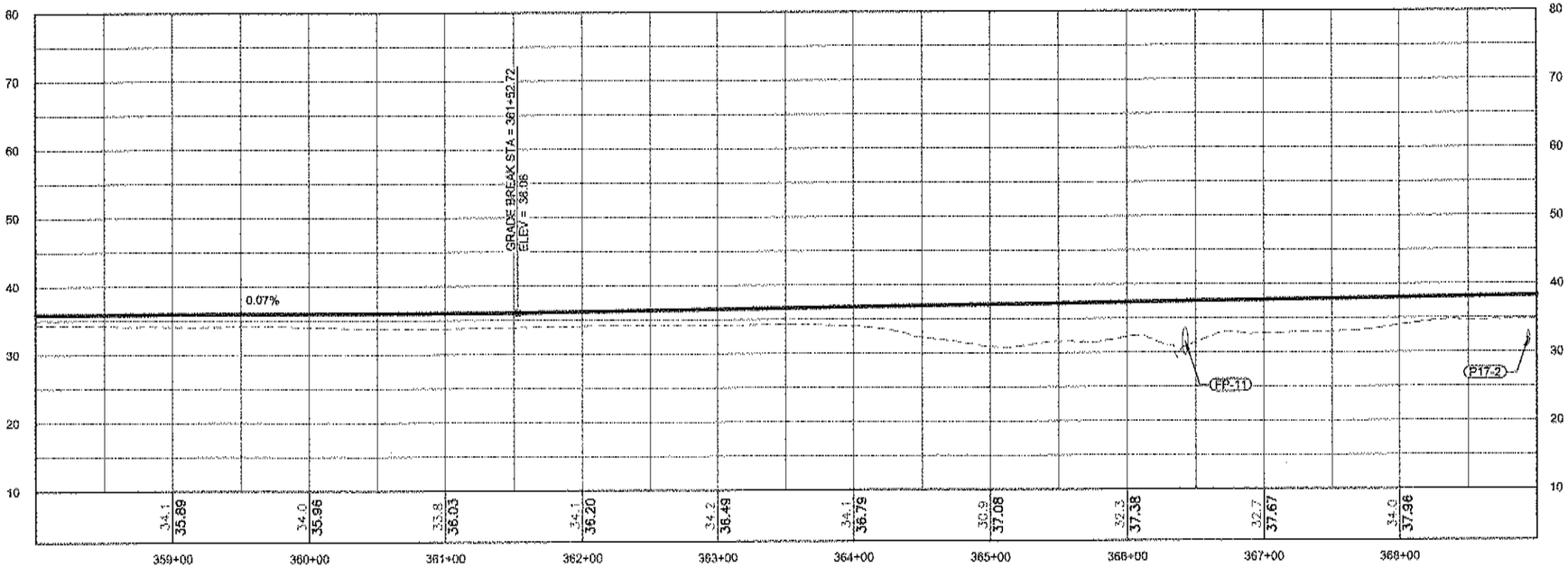
PLAN & PROFILE

PROJECT DESIGNATION

68606

STATE	YEAR
ALASKA	2013
SHEET NUMBER	TOTAL SHEETS
F16	93





DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

PATH: S:\LIB\D59119 HNS DSN\050 DESIGN DRAWINGS\PLAN SET MP 3.5-12\F SHEETS\F1-F20.DWG
KEMP, JENNIFER
TAB: F17 Wednesday, May 15, 2013 2:45:14 PM

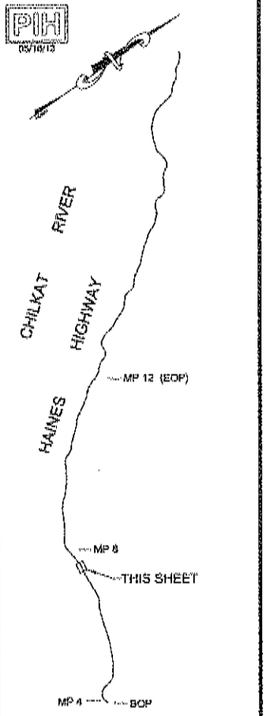
ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

PIH 05/10/13



CHECKED BY: K. KILPATRICK

STATE OF ALASKA 49th
STEVEN K. NOBLE CE-10881 REGISTERED PROFESSIONAL ENGINEER

DESIGNED BY: N. HOBBS
DRAWN BY: J. KEMP

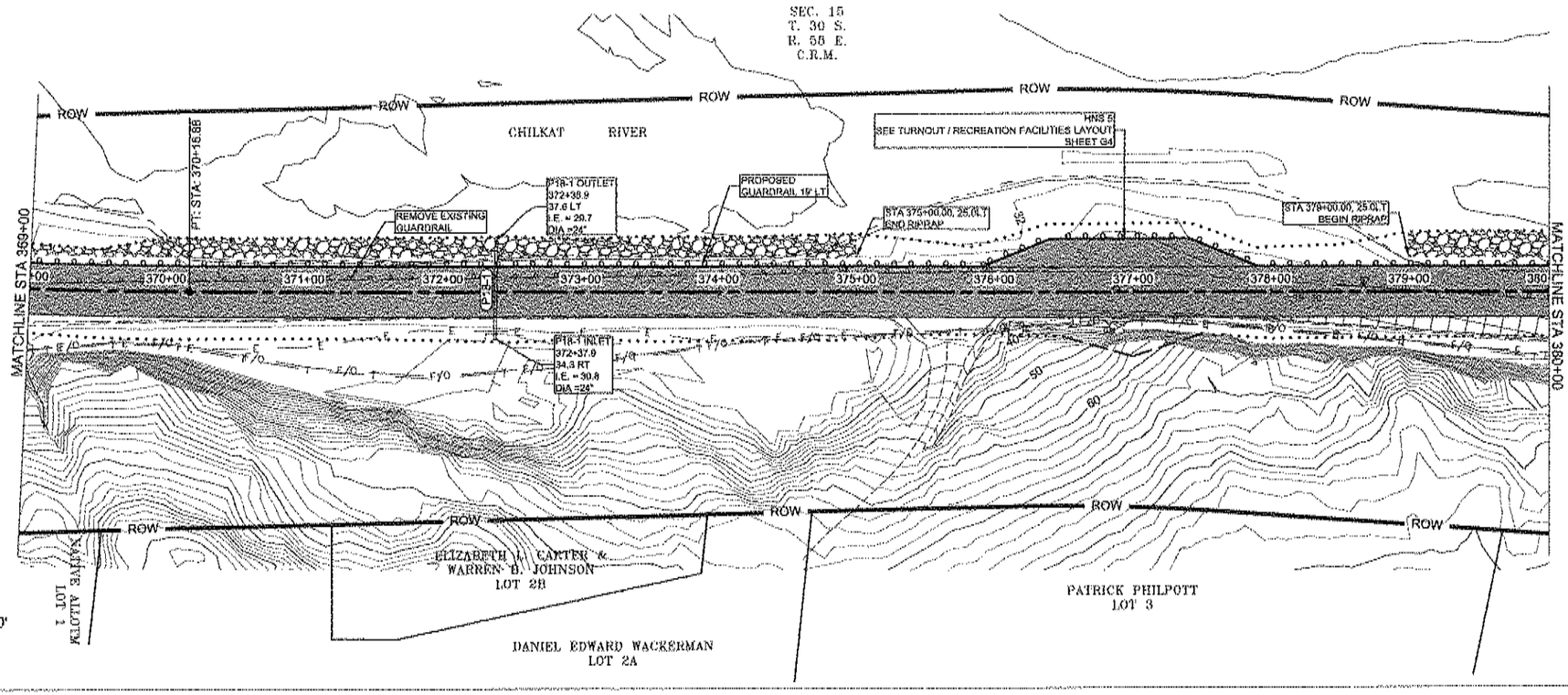
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SOUTHEAST REGION

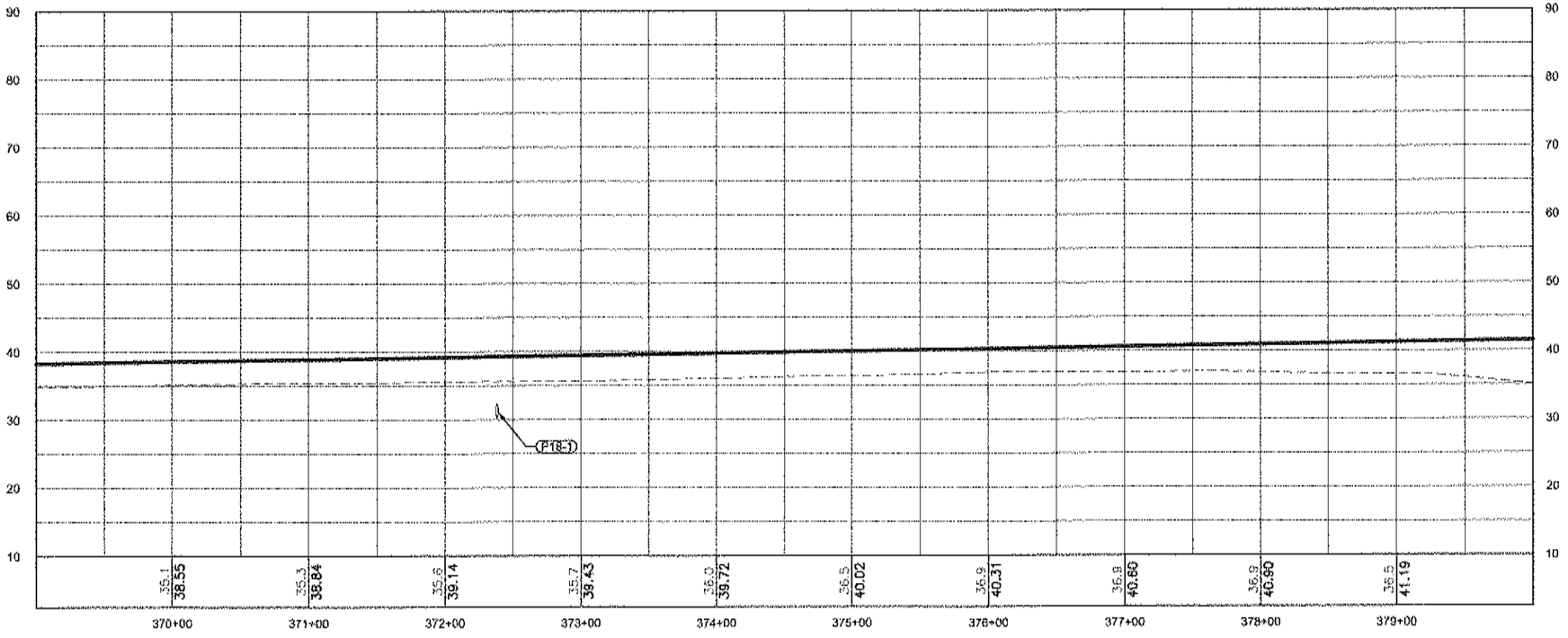
HAINES
HIGHWAY
MP 3.5 TO MP 12
PROJECT #68606

PLAN & PROFILE

PROJECT DESIGNATION
68606

STATE	YEAR
ALASKA	2013
SHEET NUMBER	TOTAL SHEETS
F17	93





DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

PATH:S:\L68\D59119 HNS DSN\050 DESIGN DRAWINGS\PLAN SET MP 3.5-12\F SHEETS\F1-F20.DWG

KEMP, JENNIFER

TAB: F18 Wednesday, May 15, 2013 2:45:26 PM

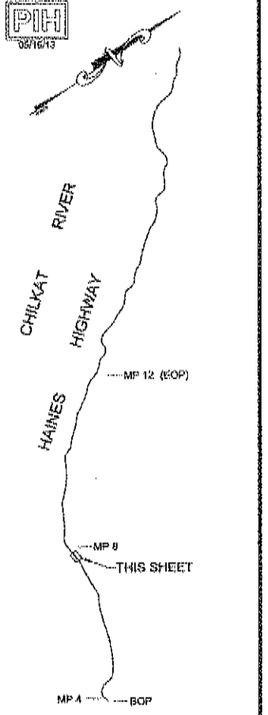
ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

PIH 05/16/13



CHECKED BY: K. KILPATRICK

STATE OF ALASKA
49th
STEVEN K. NOBLE
CE-10051
REGISTERED PROFESSIONAL ENGINEER

DESIGNED BY: N. HOBBS

DRAWN BY: J. KEMP

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION

HAINES
HIGHWAY
MP 3.5 TO MP 12
PROJECT #68606

PLAN & PROFILE

PROJECT DESIGNATION

68606

STATE	YEAR
ALASKA	2013
SHEET NUMBER	TOTAL SHEETS
F18	93

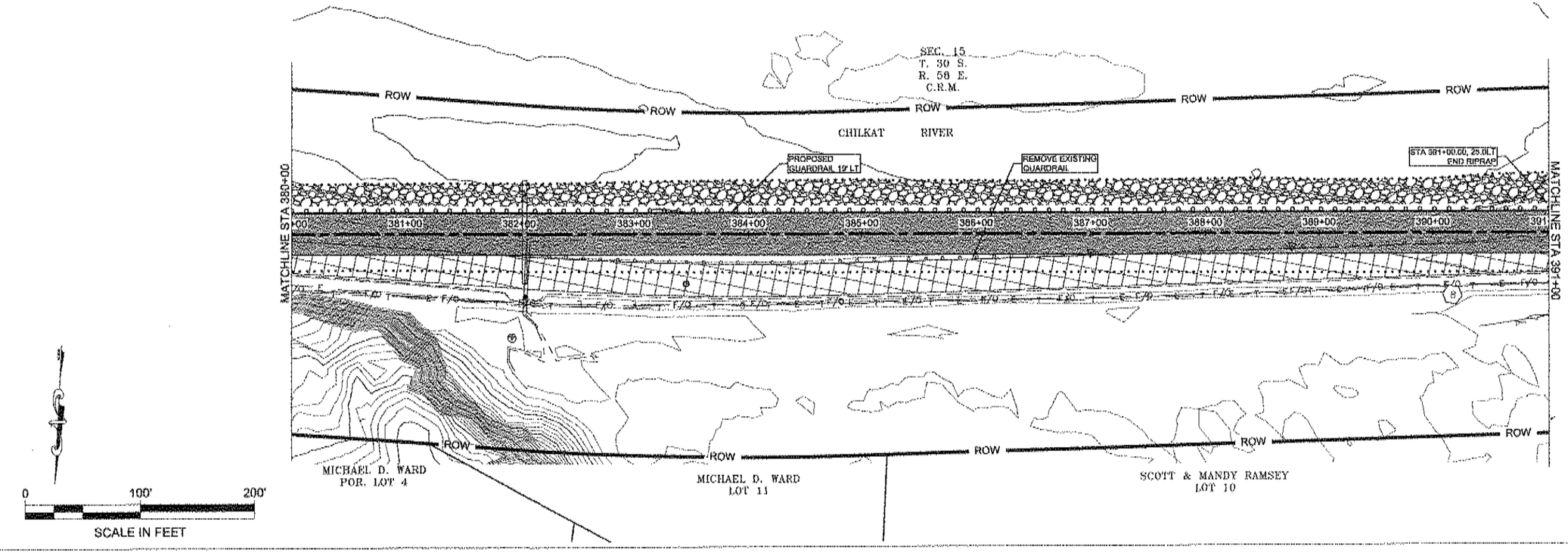
PATH: S:\AUB\D59119 HNS DSN\050 DESIGN DRAWINGS\PLAN SET MP 3.5-12\F SHEETS\F1-F20.DWG
KEMP, JENNIFER
TAB: F19 Wednesday, May 15, 2013 2:49:37 PM

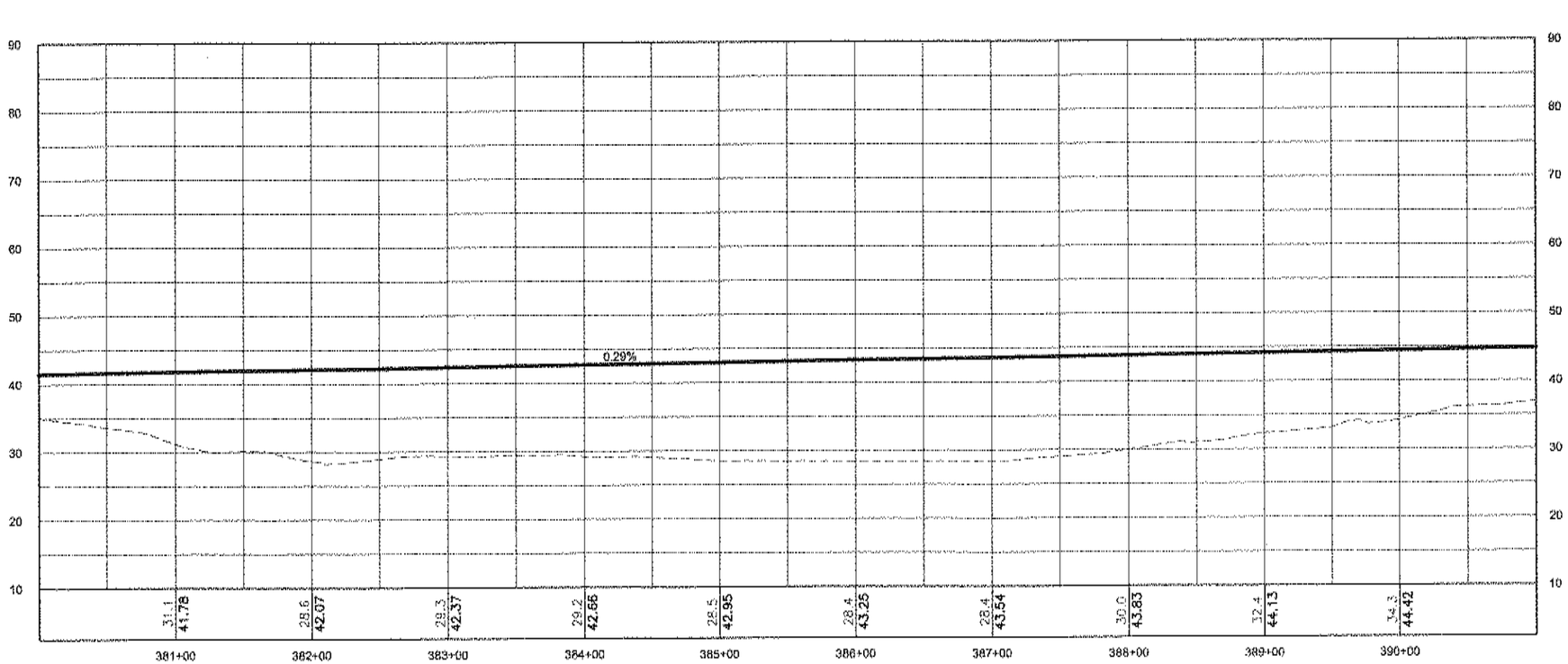
ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

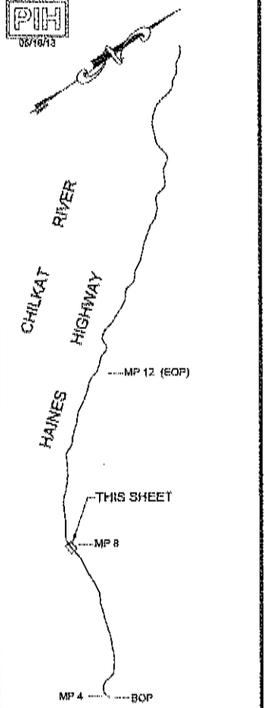
No.	DATE	DESCRIPTION





DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

PIH
05/16/13



CHECKED BY: K. KILPATRICK

STATE OF ALASKA 49th
STEVEN K. NOBLE CE-10051 REGISTERED PROFESSIONAL ENGINEER

DESIGNED BY: N. HOBBS

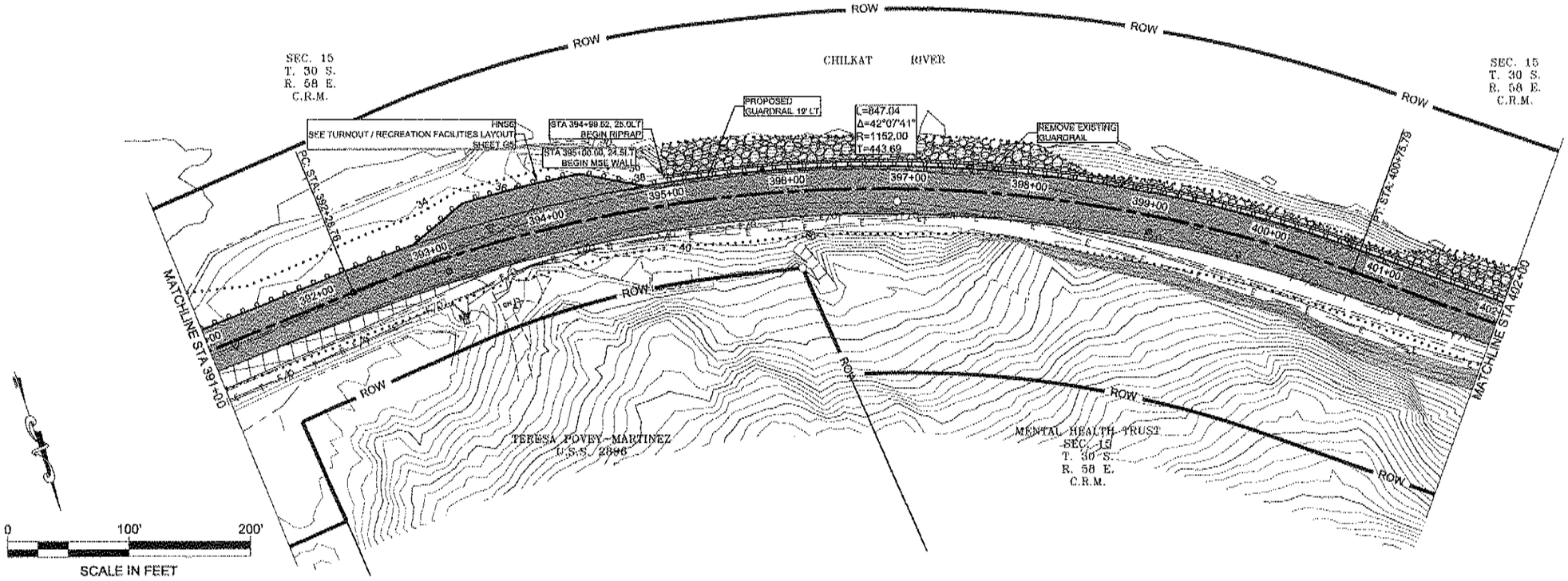
DRAWN BY: J. KEMP

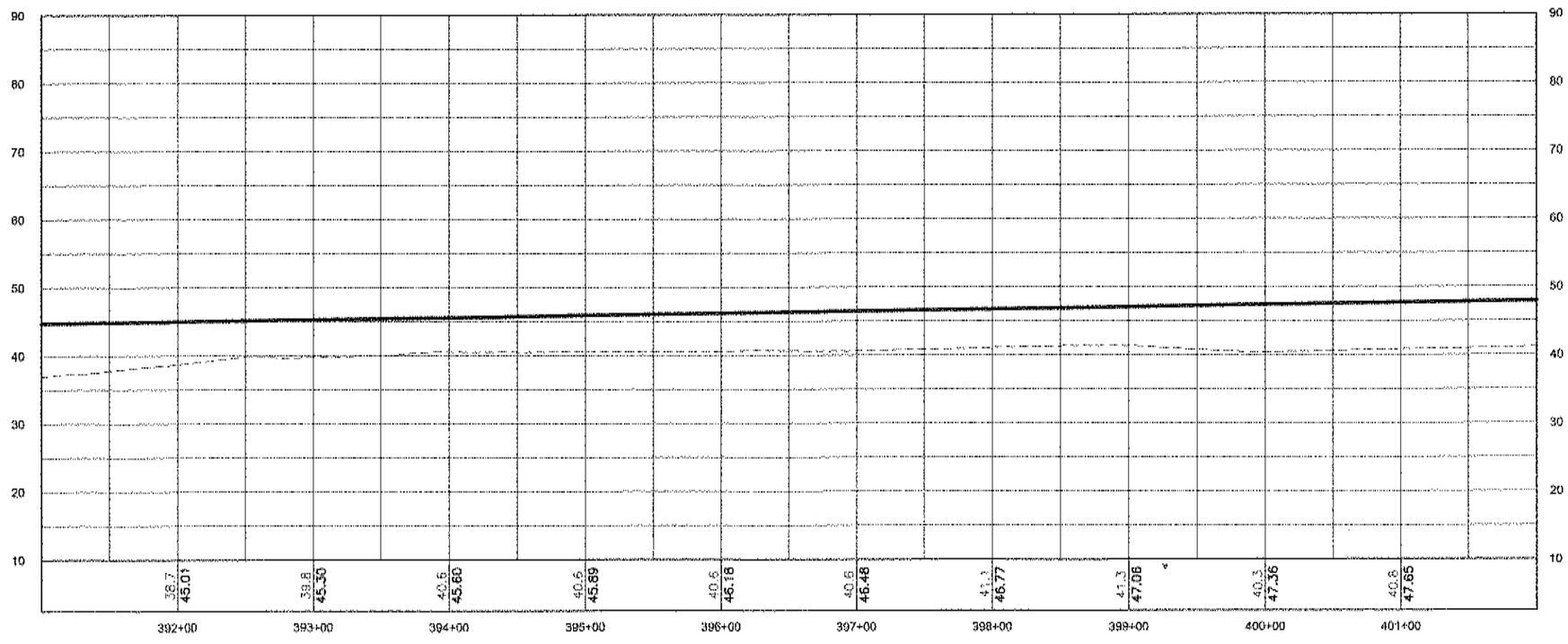
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SOUTHEAST REGION

HAINES HIGHWAY MP 3.5 TO MP 12 PROJECT #68606

PLAN & PROFILE

PROJECT DESIGNATION	
68606	
STATE	YEAR
ALASKA	2013
SHEET NUMBER	TOTAL SHEETS
F19	93





DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

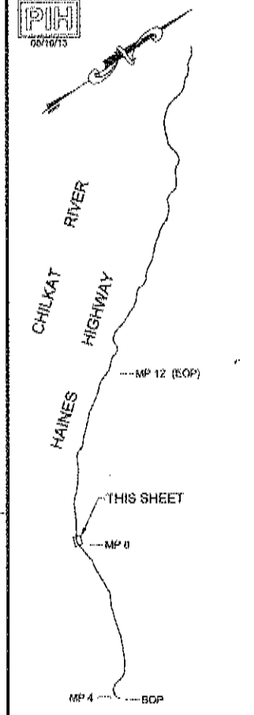
PATH: S:\L[B]\D93119 HNS DSN1050 DESIGN DRAWINGS\PLAN SET MP 3.5-12\F SHEETS\F1-F29.DWG
KEMP, JENNIFER
TAB: F20 Wednesday, May 15, 2013 2:45:48 PM

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION



CHECKED BY: K. KILPATRICK

STATE OF ALASKA
49th
STEVEN K. NOBLE
CE-10051
REGISTERED PROFESSIONAL ENGINEER

DESIGNED BY: N. HOBBS
DRAWN BY: J. KEMP

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION

HAINES
HIGHWAY
MP 3.5 TO MP 12
PROJECT #68606

PLAN & PROFILE

PROJECT DESIGNATION
68606

STATE	YEAR
ALASKA	2013

SHEET NUMBER	TOTAL SHEETS
F20	93

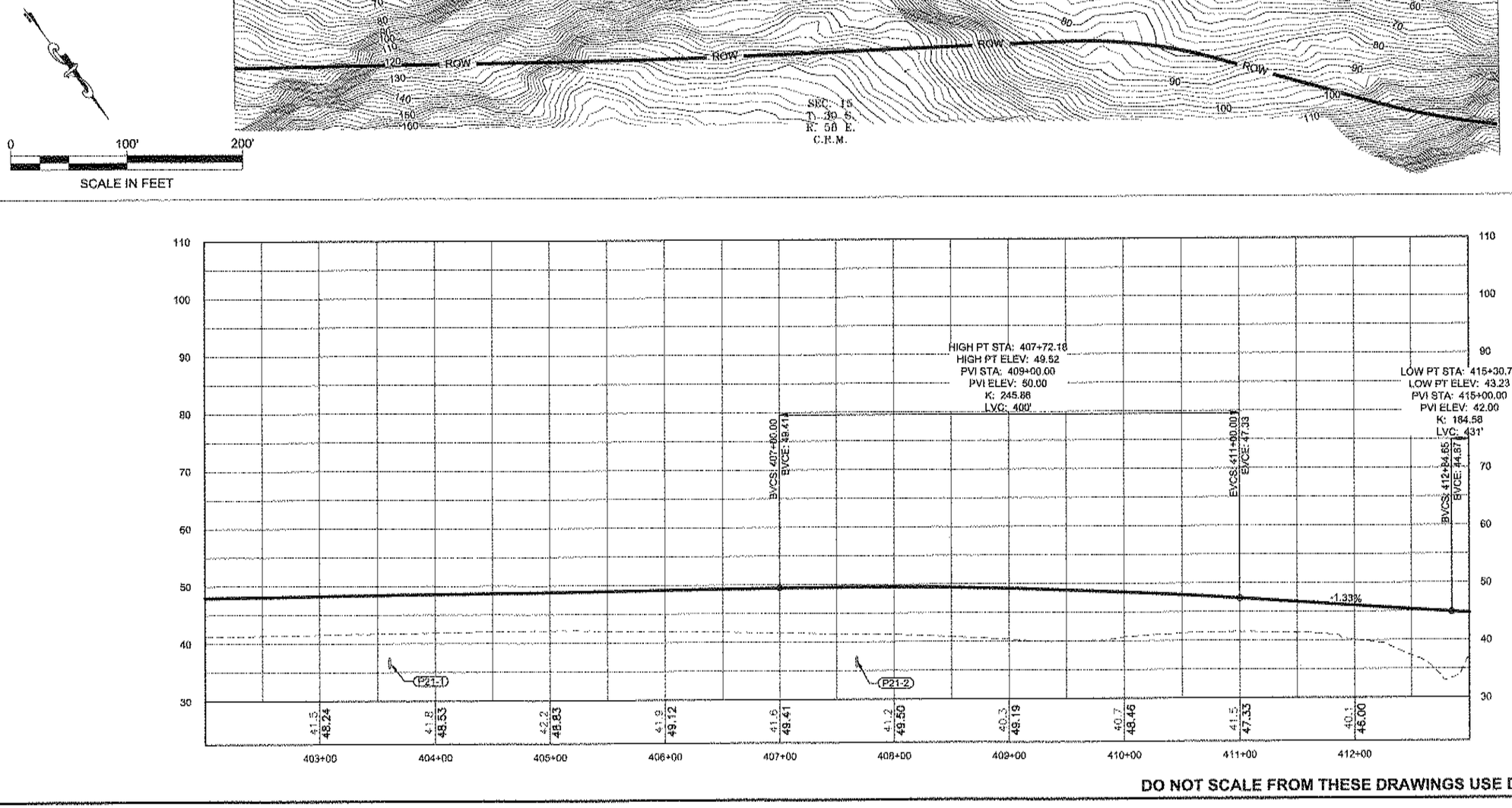
PATH:S:\LIB\D58119 HNS DSN\050 DESIGN DRAWINGS\PLAN SET MP 3.5-12\F SHEETS\F21-F40.DWG
KEMP, JENNIFER
TAB: F21 Wednesday, May 15, 2013 2:57:13 PM

ADDENDUM NUMBER

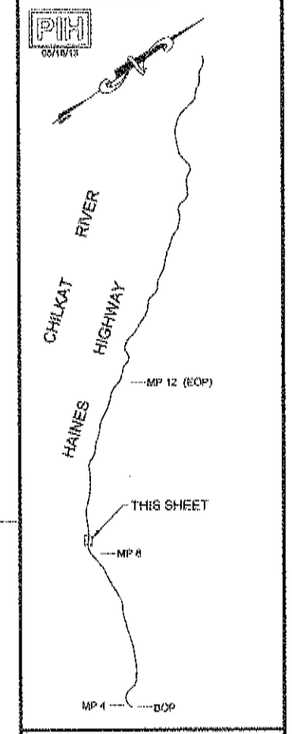
ATTACHMENT NUMBER

RECORD OF REVISIONS

NO.	DATE	DESCRIPTION



DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS



CHECKED BY: K. KILPATRICK

STATE OF ALASKA
49th
STEVEN K. NOBLE
CE-10051
REGISTERED PROFESSIONAL ENGINEER

DESIGNED BY: N. ROBBS

DRAWN BY: J. KEMP

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION

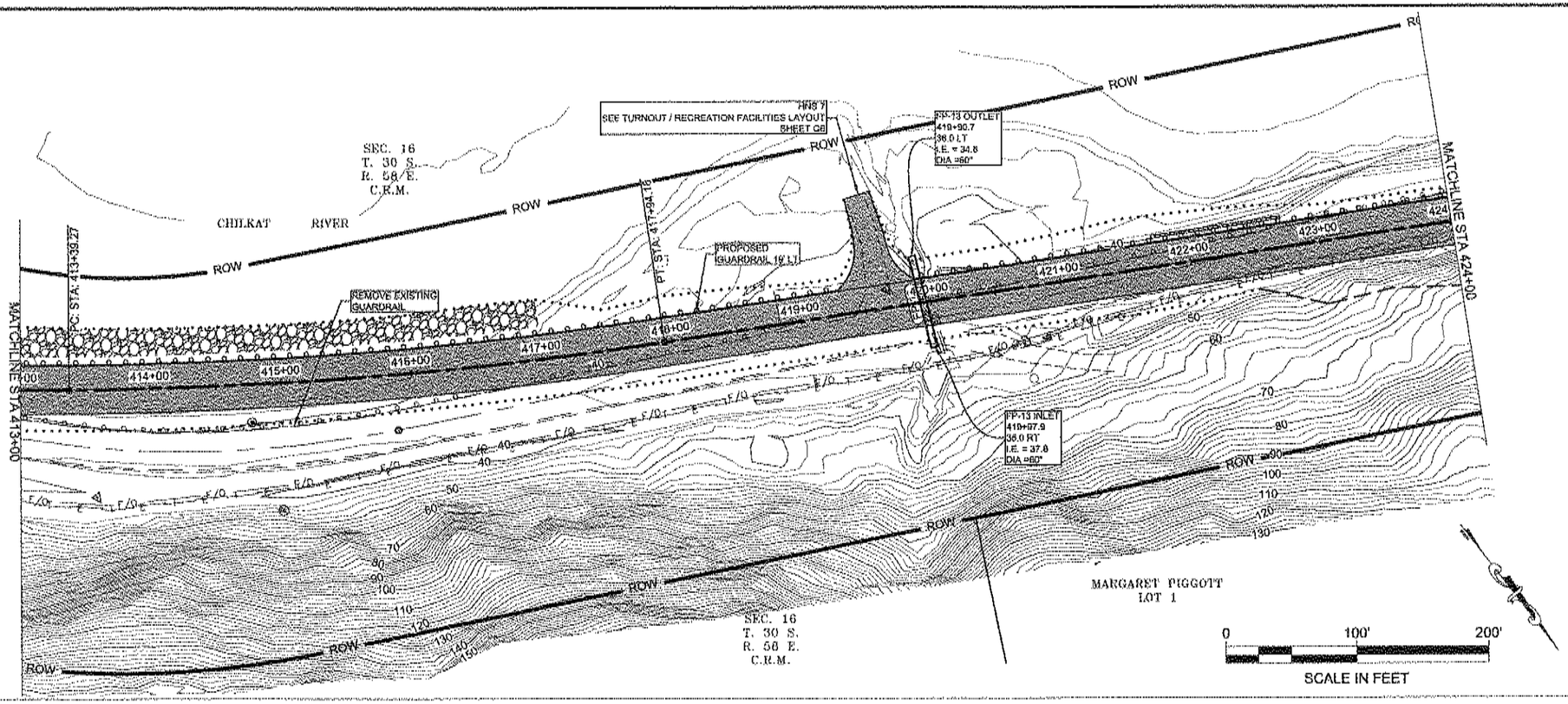
HAINES
HIGHWAY
MP 3.5 TO MP 12
PROJECT #68606

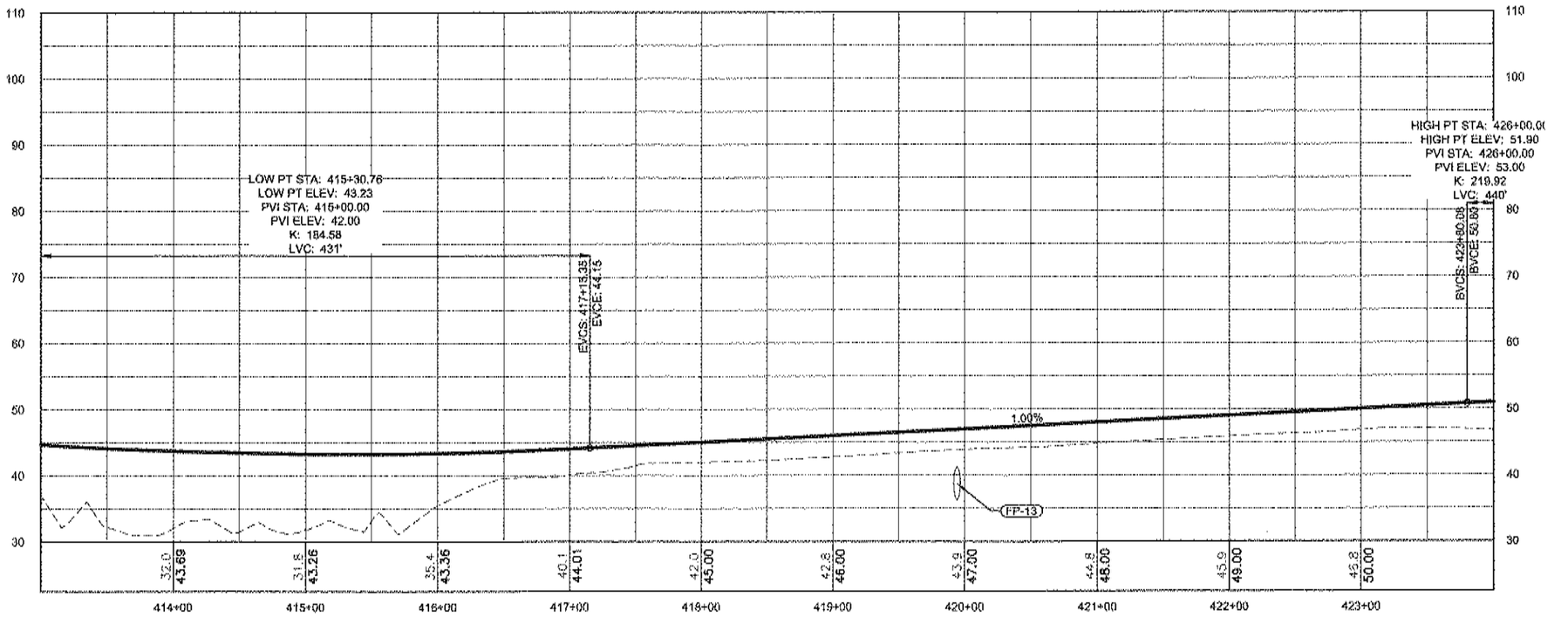
PLAN & PROFILE

PROJECT DESIGNATION

68606

STATE	YEAR
ALASKA	2013
SHEET NUMBER	TOTAL SHEETS
F21	93





DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

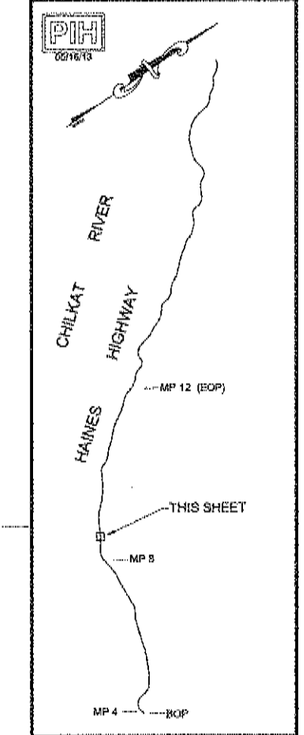
PATH: S:\LIB\D68118 HNS DSN\050 DESIGN DRAWINGS\PLAN SET MP 3.5-12\F SHEETS\F21-F40.DWG
KEMP, JENNIFER
TAB: F22 Wednesday, May 15, 2013 3:01:29 PM

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION



CHECKED BY: K. KILPATRICK

STATE OF ALASKA
49th
STEVEN K. NOBLE
CE-10051
REGISTERED PROFESSIONAL ENGINEER

DESIGNED BY: N. HOBBS

DRAWN BY: J. KEMP

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION

HAINES
HIGHWAY
MP 3.5 TO MP 12
PROJECT #68606

PLAN & PROFILE

PROJECT DESIGNATION
68606

STATE	YEAR
ALASKA	2013
SHEET NUMBER	TOTAL SHEETS
F22	93

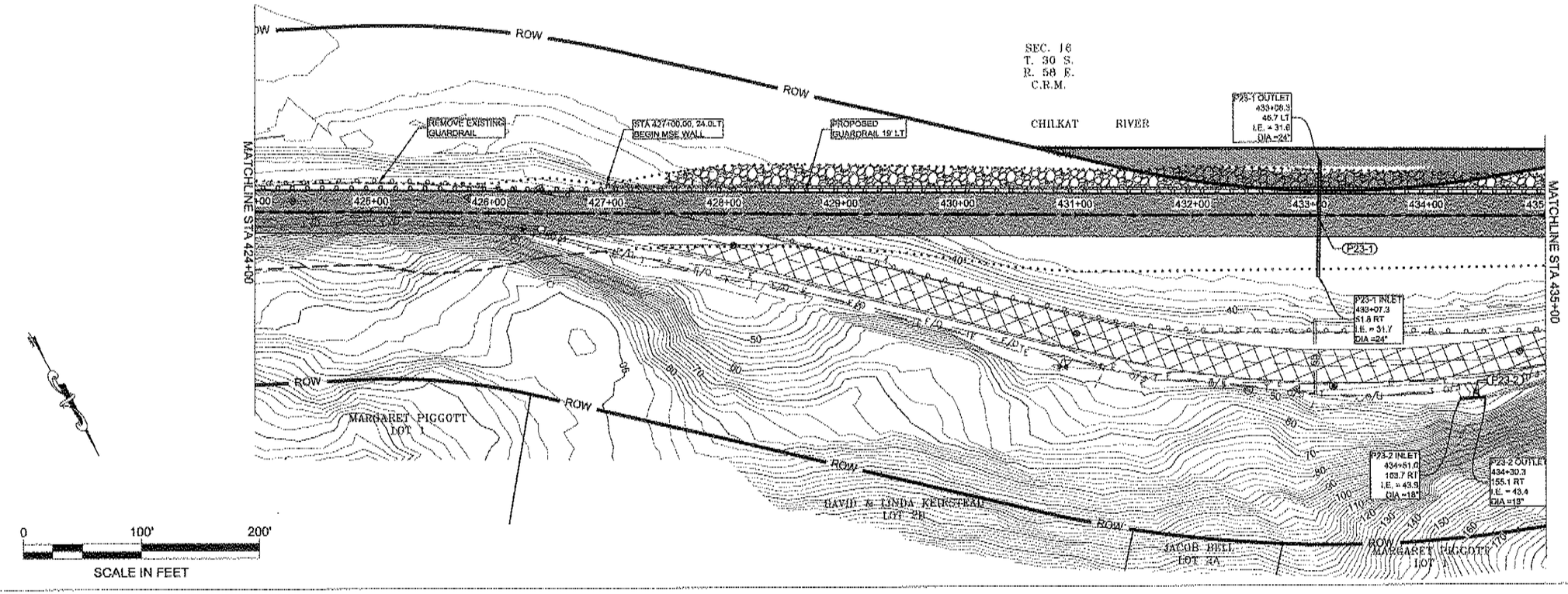
PATH:S:\LIB\D58119 HNS DSN\050 DESIGN DRAWINGS\PLAN SET MP 3.5-12\F SHEETS\F21-F40.DWG
KEMP, JENNIFER
TAB: F23 Wednesday, May 15, 2013 3:01:42 PM

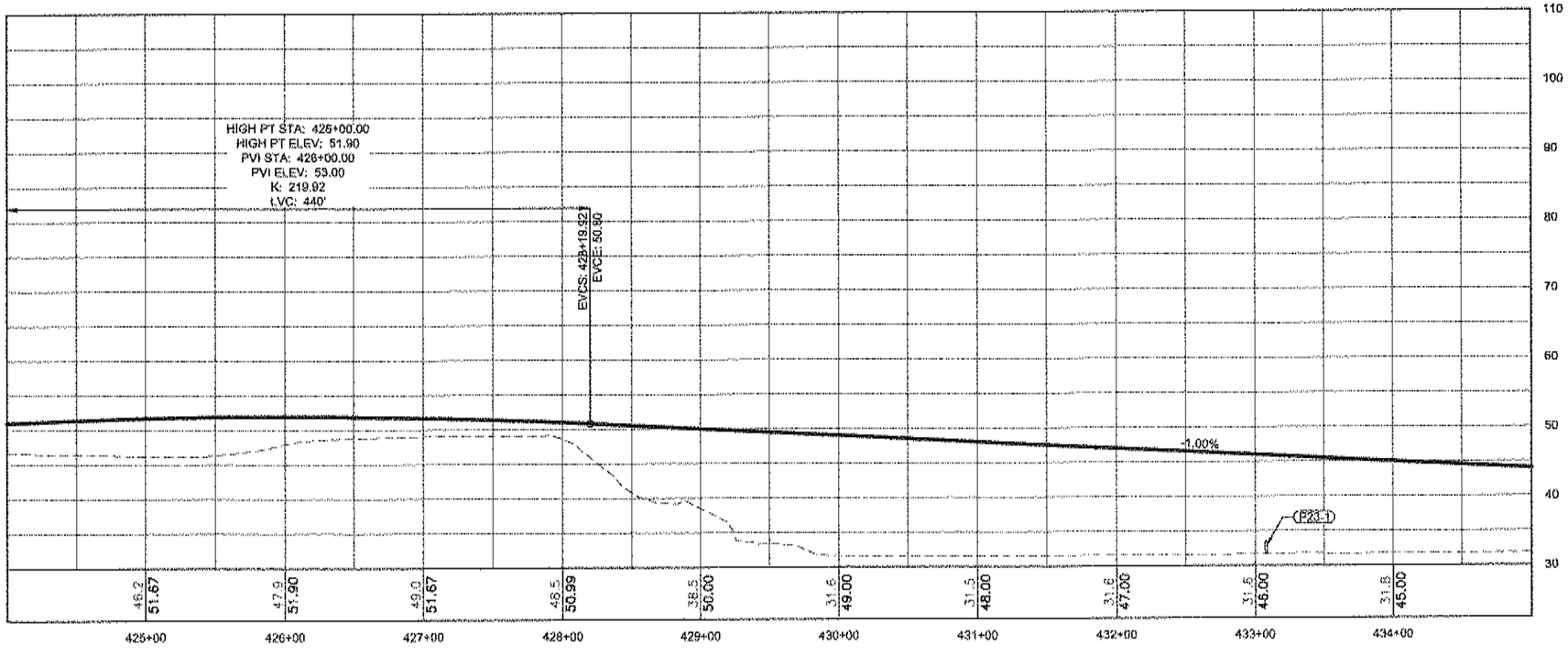
ADDENDUM NUMBER

ATTACHMENT NUMBER

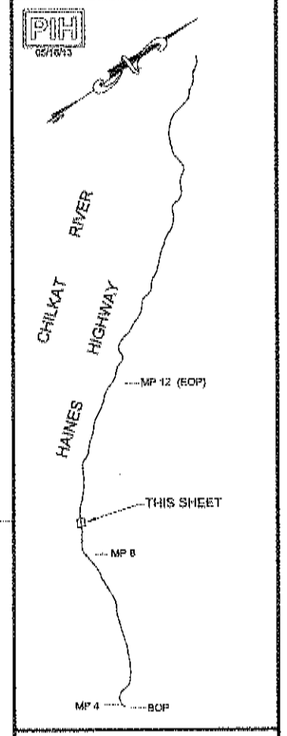
RECORD OF REVISIONS

No.	DATE	DESCRIPTION





DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS



CHECKED BY: K. KILPATRICK

STATE OF ALASKA
49th
STEVEN K. NOBLE
CE-10051
REGISTERED PROFESSIONAL ENGINEER

DESIGNED BY: N. HOBBS

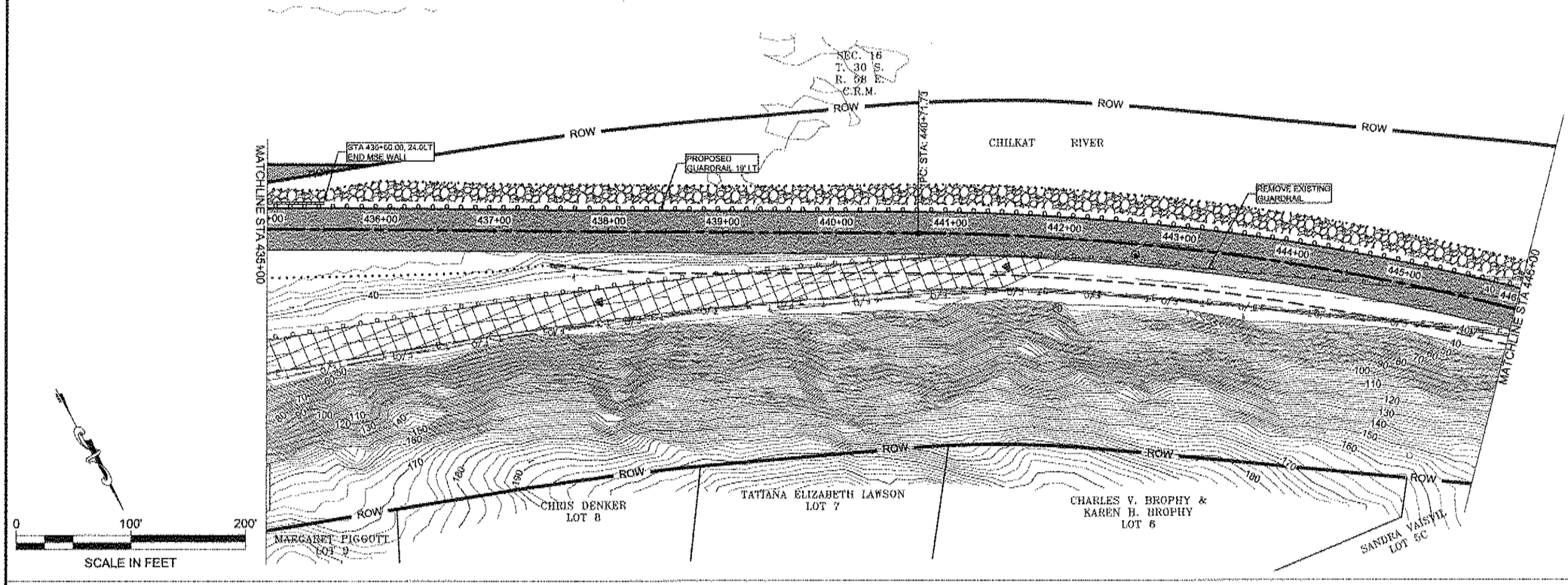
DRAWN BY: J. KEMP

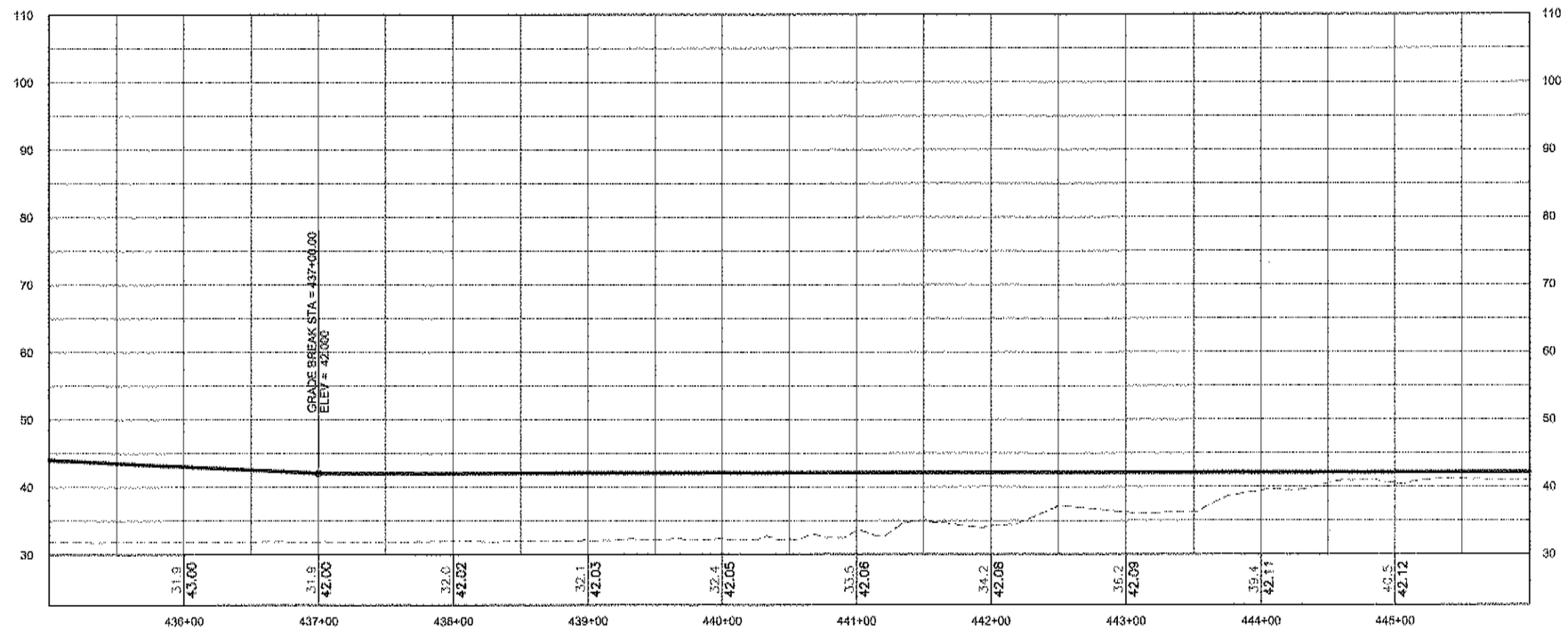
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION

HAINES
HIGHWAY
MP 3.5 TO MP 12
PROJECT #68606

PLAN & PROFILE

PROJECT DESIGNATION	
68606	
STATE	YEAR
ALASKA	2013
SHEET NUMBER	TOTAL SHEETS
F23	93





DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

PATH: S:\LIB\DS9119 HNS DSN\050 QESIGN DRAWINGS\PLAN SET MP 3.5-12\F SHEETS\F21-F40.DWG

KEMP, JENNIFER

TAB: F24 Wednesday, May 15, 2013 3:01:55 PM

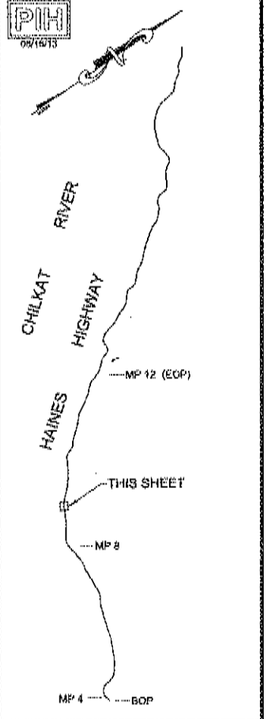
ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

PIH 05/16/13



CHECKED BY: K. KILPATRICK

STATE OF ALASKA
49th
STEVEN K. NOBLE
CE-10051
REGISTERED PROFESSIONAL ENGINEER

DESIGNED BY: N. HOBBS

DRAWN BY: J. KEMP

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION

HAINES
HIGHWAY
MP 3.5 TO MP 12
PROJECT #68606

PLAN & PROFILE

PROJECT DESIGNATION

68606

STATE	YEAR
ALASKA	2013
SHEET NUMBER	TOTAL SHEETS
F24	93

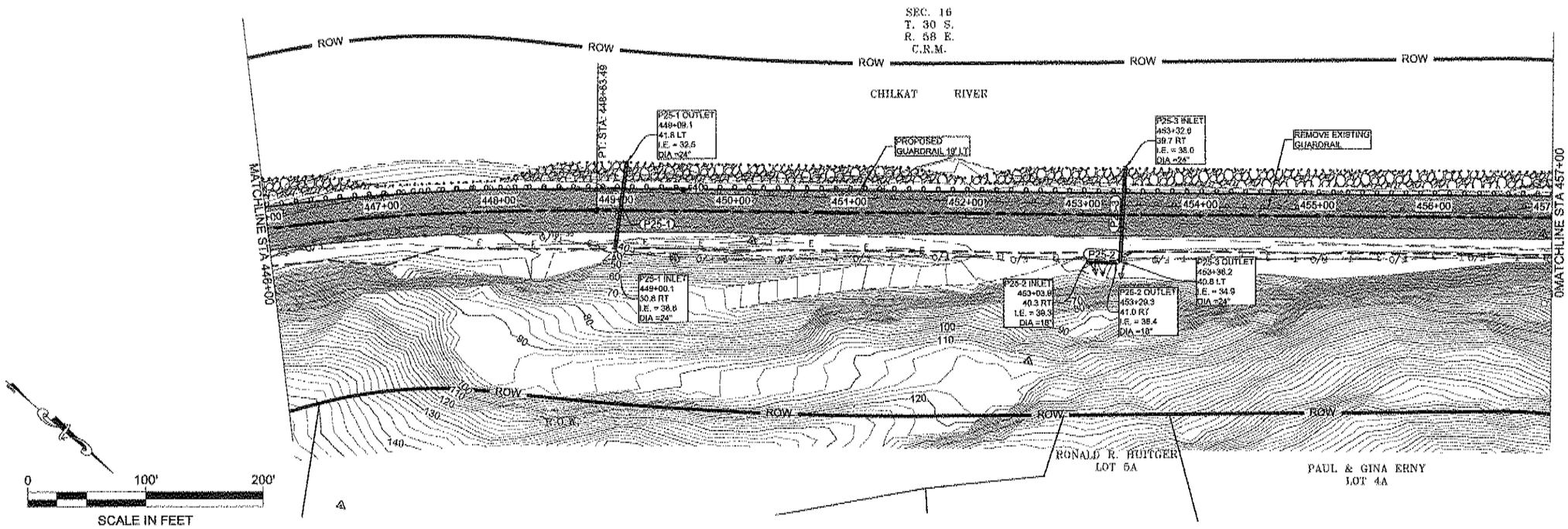
PATH: S:\LIBD\59119 HNS DSN\050 DESIGN DRAWINGS\PLAN SET MP 3.5-12\F SHEETS\F21-F40.DWG
KEMP, JENNIFER
TAB: F25 Wednesday, May 15, 2013 3:02:09 PM

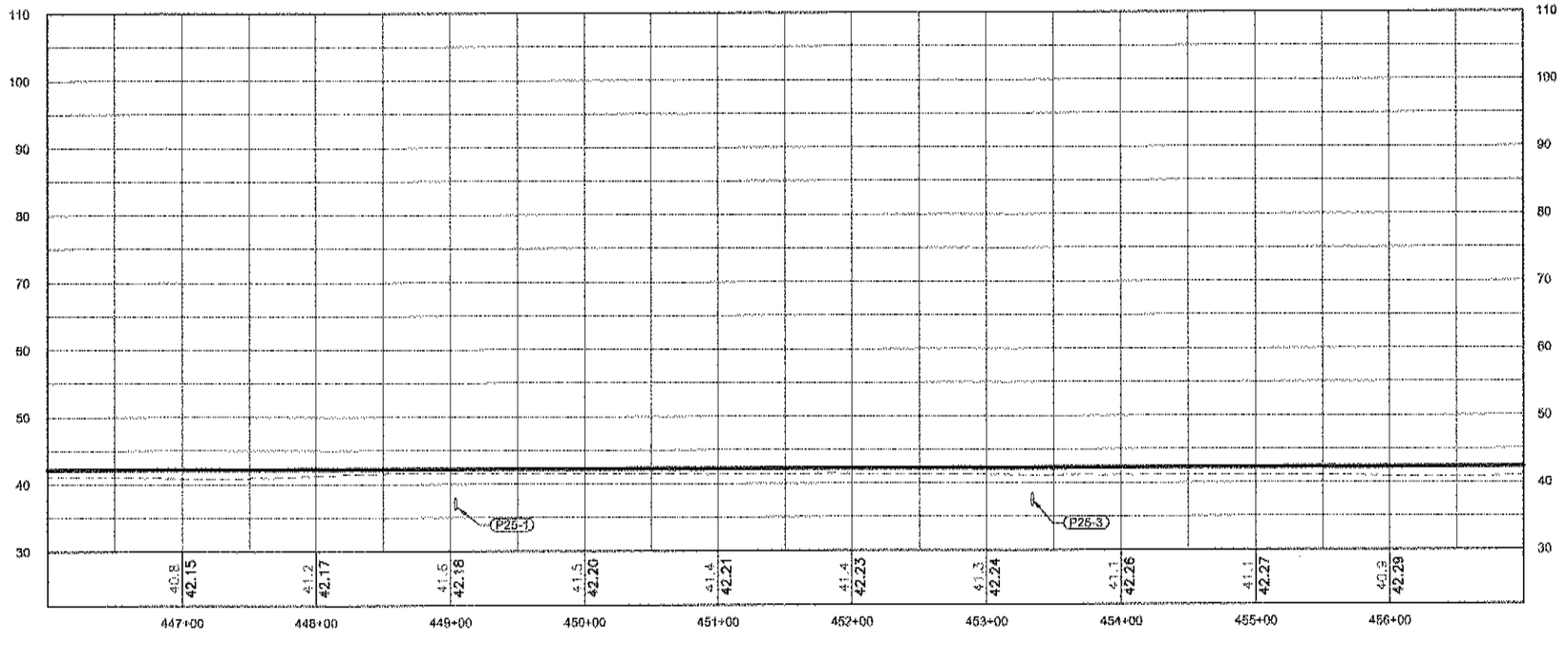
ADDENDUM NUMBER

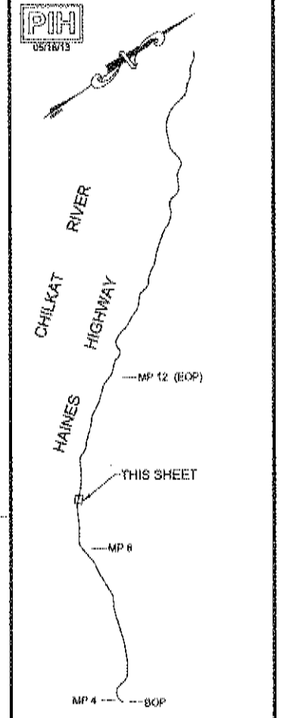
ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION







CHECKED BY: K. KILPATRICK

STATE OF ALASKA
49th
STEVEN K. NOBLE
CE-10051
REGISTERED PROFESSIONAL ENGINEER

DESIGNED BY: N. HOBBS

DRAWN BY: J. KEMP

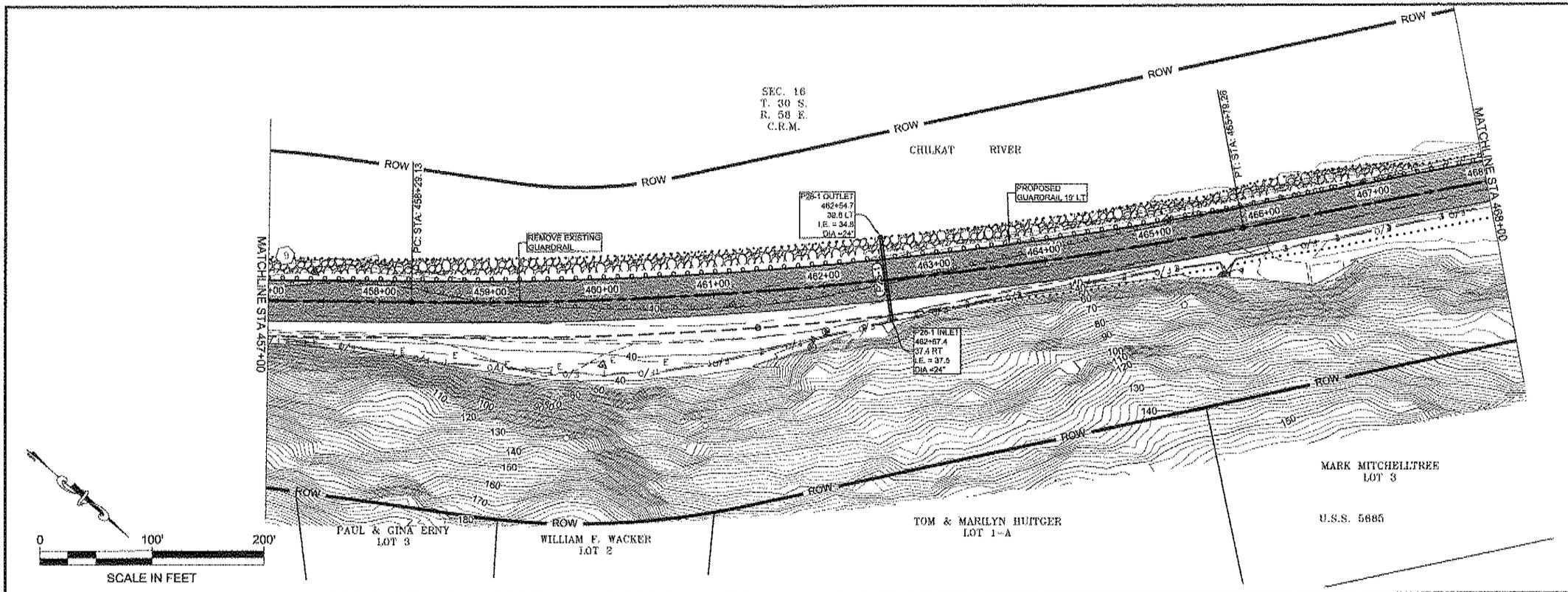
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION

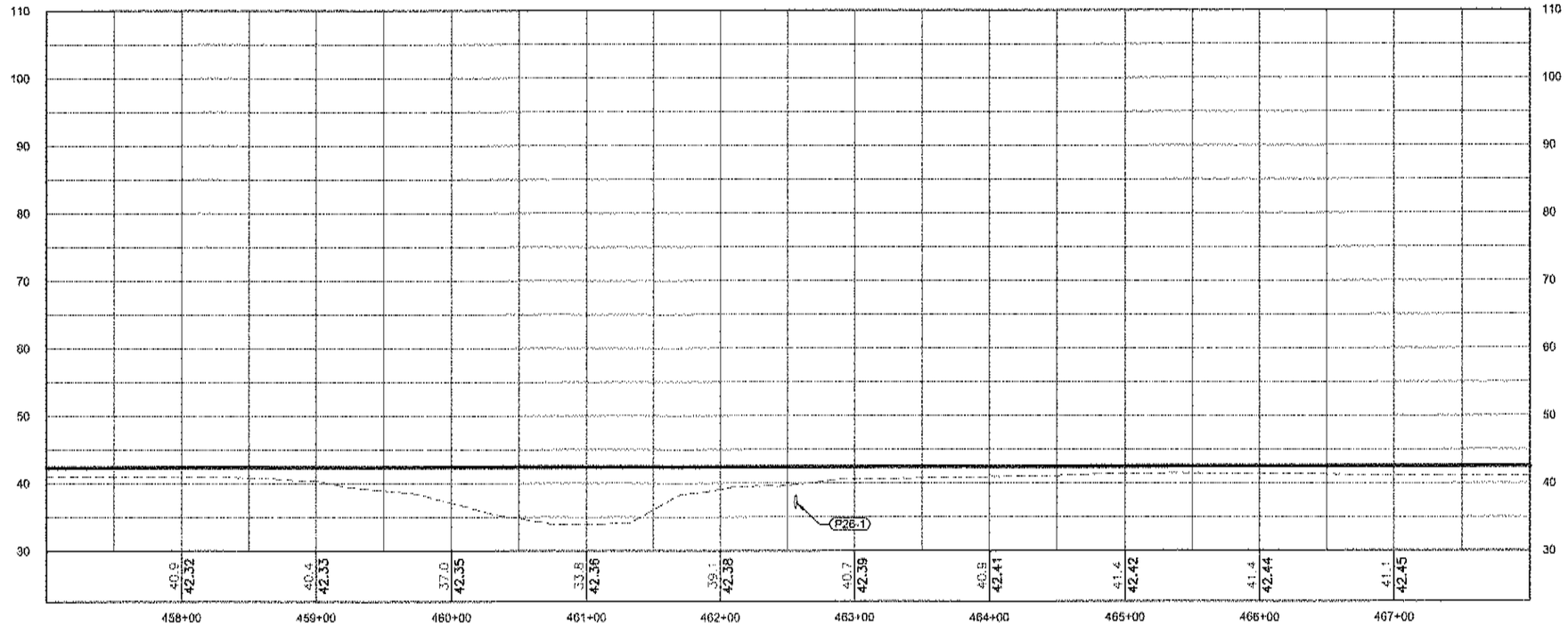
HAINES
HIGHWAY
MP 3.5 TO MP 12
PROJECT #68606

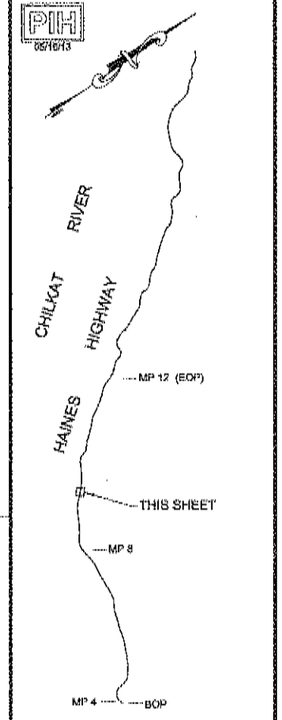
PLAN & PROFILE

PROJECT DESIGNATION	
68606	
STATE	YEAR
ALASKA	2013
SHEET NUMBER	TOTAL SHEETS
F25	93

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS







PATH: G:\LIDD\38119 HNS DSN\650 DESIGN DRAWINGS\PLAN SET MP 3.5-12\F SHEETS\F21-F40.DWG
KEMP, JENNIFER
TAB: F26 Wednesday, May 15, 2013 3:02:22 PM

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

CHECKED BY: K. KILPATRICK

STATE OF ALASKA 49th
STEVEN K. NOBLE
CE-10061
REGISTERED PROFESSIONAL ENGINEER

DESIGNED BY: N. HOBBS
DRAWN BY: J. KEMP

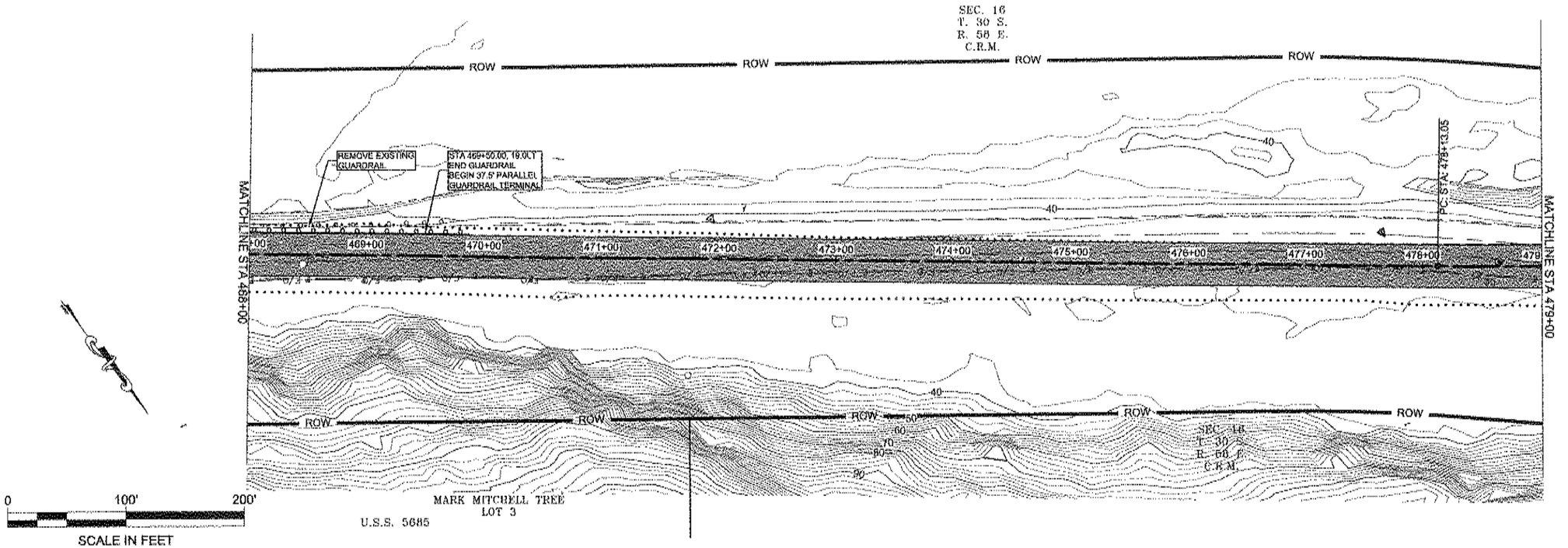
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION

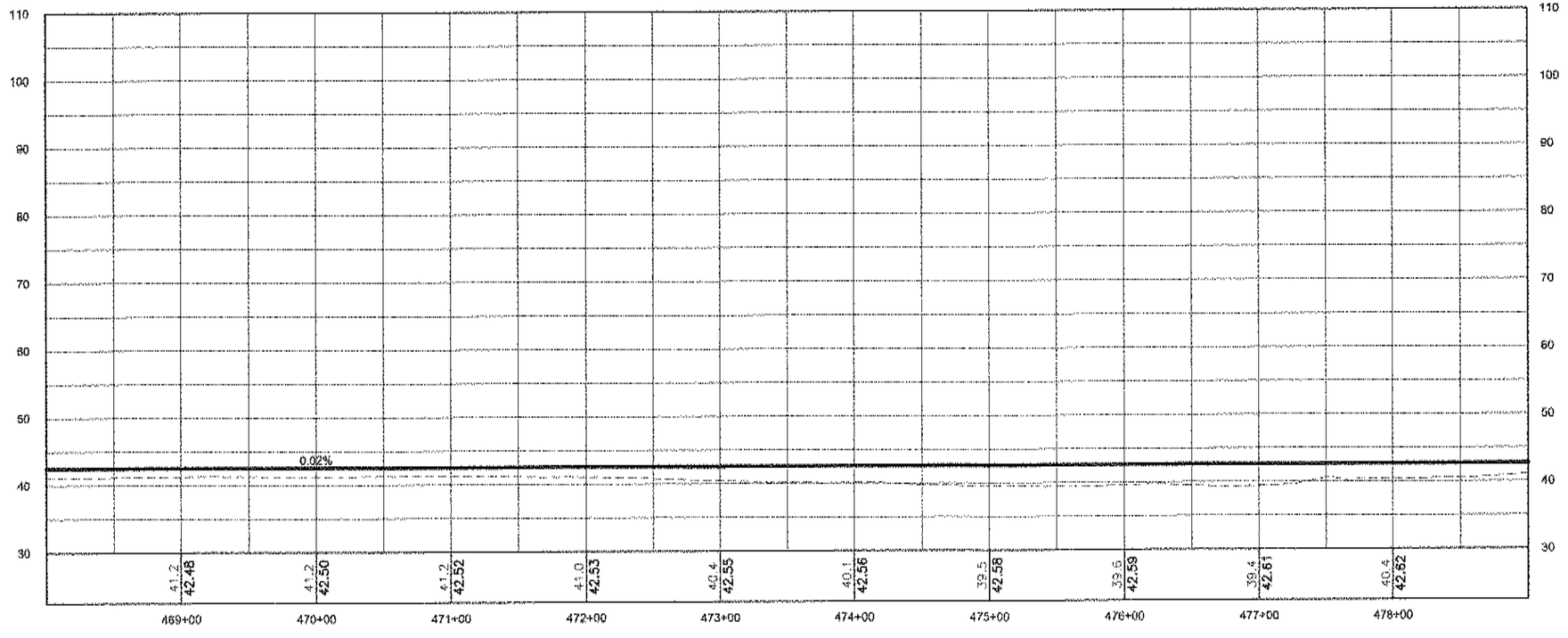
HAINES
HIGHWAY
MP 3.5 TO MP 12
PROJECT #68606

PLAN & PROFILE

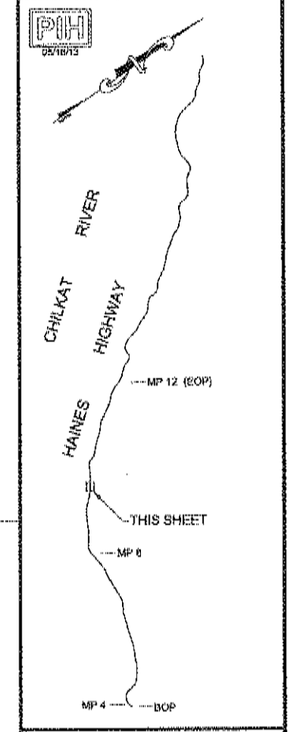
PROJECT DESIGNATION	
68606	
STATE	YEAR
ALASKA	2013
SHEET NUMBER	TOTAL SHEETS
F26	93

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS





DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS



PATH: S:\LIB\D59119 HNS DSN\050 DESIGN DRAWINGS\PLAN SET MP 3.5-12\F SHEETS\F21-F40.DWG
KEMP, JENNIFER
TAB: FZ7 Wednesday, May 15, 2013 3:02:35 PM

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

CHECKED BY: K. KILPATRICK

STATE OF ALASKA
49th
STEVEN K. NOBLE
CE-10951
REGISTERED PROFESSIONAL ENGINEER

DESIGNED BY: N. HOBBS

DRAWN BY: J. KEMP

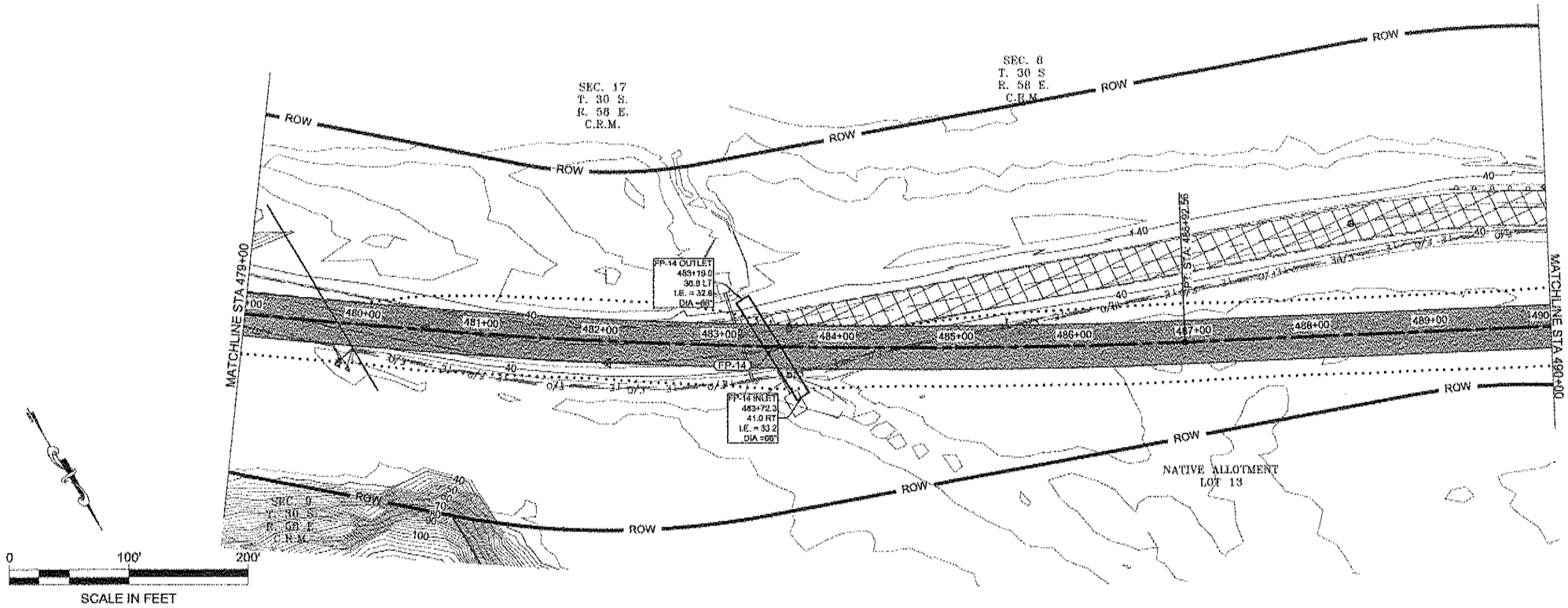
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION

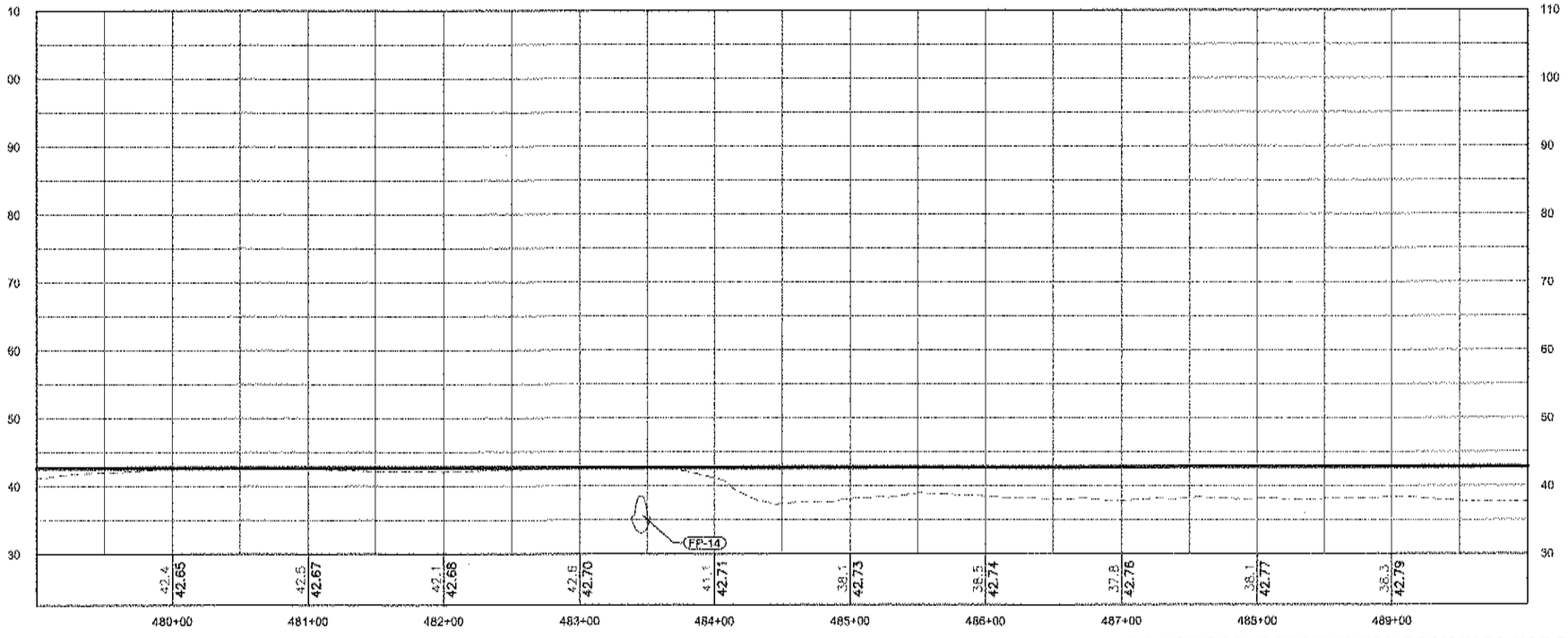
HAINES
HIGHWAY
MP 3.5 TO MP 12
PROJECT #68606

PLAN & PROFILE

PROJECT DESIGNATION
68606

STATE	YEAR
ALASKA	2013
SHEET NUMBER	TOTAL SHEETS
F27	93





DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

PATH: S:\LIDD\59110 HNS DSN\050 DESIGN DRAWINGS\PLAN SET MP 3.5-12\F SHEETS\F21-F40.DWG

KEMP, JENNIFER
TAB: F28 Wednesday, May 15, 2013 3:02:47 PM

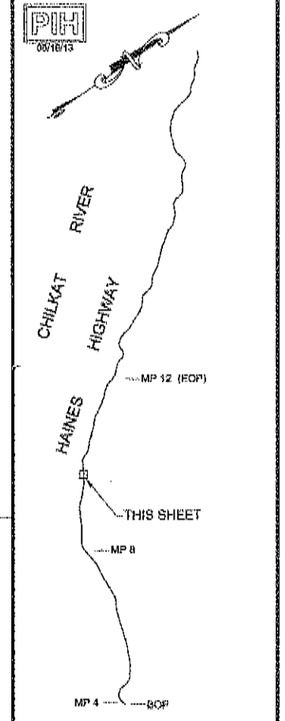
ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

PIH 05/16/13



CHECKED BY: K. KILPATRICK

STATE OF ALASKA 49th
STEVEN K. NOBLE
CE-10061
REGISTERED PROFESSIONAL ENGINEER

DESIGNED BY: N. HOBBS

DRAWN BY: J. KEMP

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION

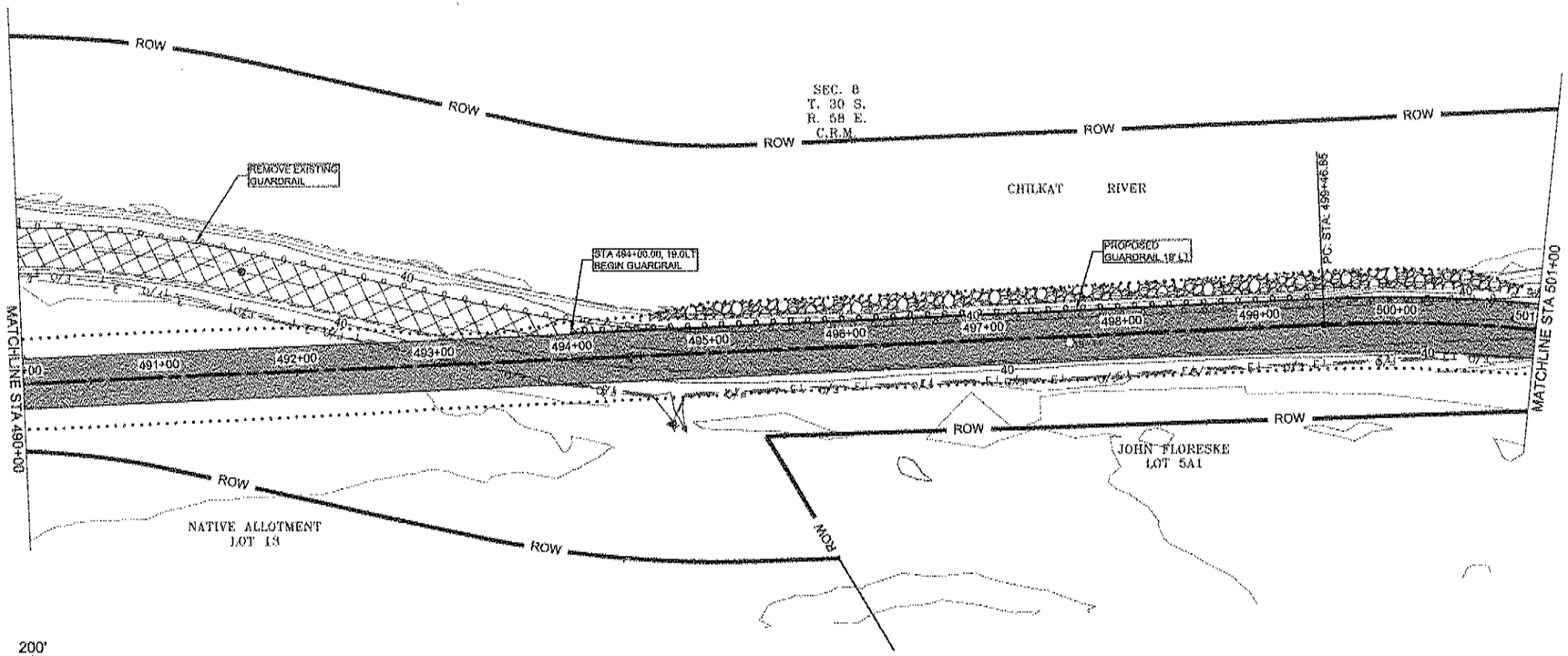
HAINES
HIGHWAY
MP 3.5 TO MP 12
PROJECT #68606

PLAN & PROFILE

PROJECT DESIGNATION

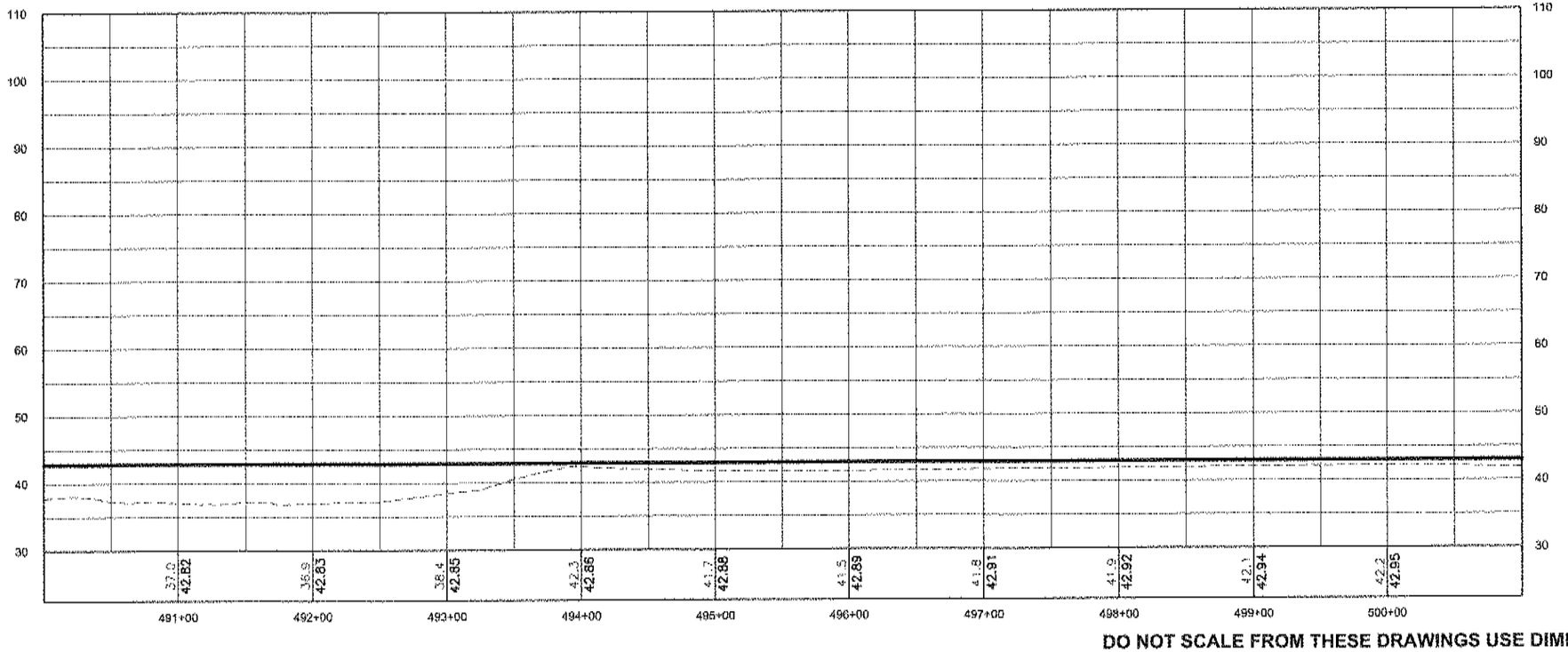
68606

STATE	YEAR
ALASKA	2013
SHEET NUMBER	TOTAL SHEETS
F28	93



0 100' 200'

SCALE IN FEET



DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

PATH:S:\LIB\DS9118 HNS DSN\050 DESIGN DRAWINGS\PLAN SET MP 3.5-12\F SHEETS\F21-F40.DWG

KEMP, JENNIFER

TAB: F29 Wednesday, May 15, 2013 3:02:59 PM

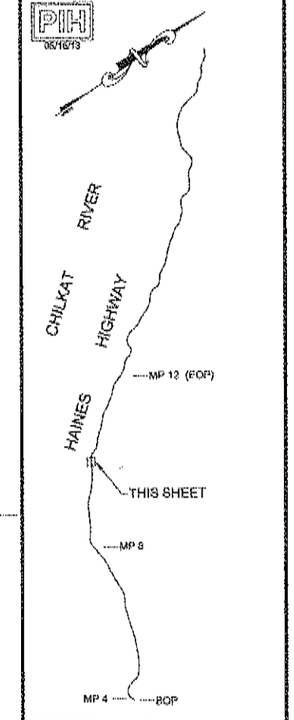
ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

PIH 05/16/13



CHECKED BY: K. KILPATRICK

STATE OF ALASKA
49th
STEVEN K. NOBLE
CE-10061
REGISTERED PROFESSIONAL ENGINEER

DESIGNED BY: N. HOBBS

DRAWN BY: J. KEMP

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION

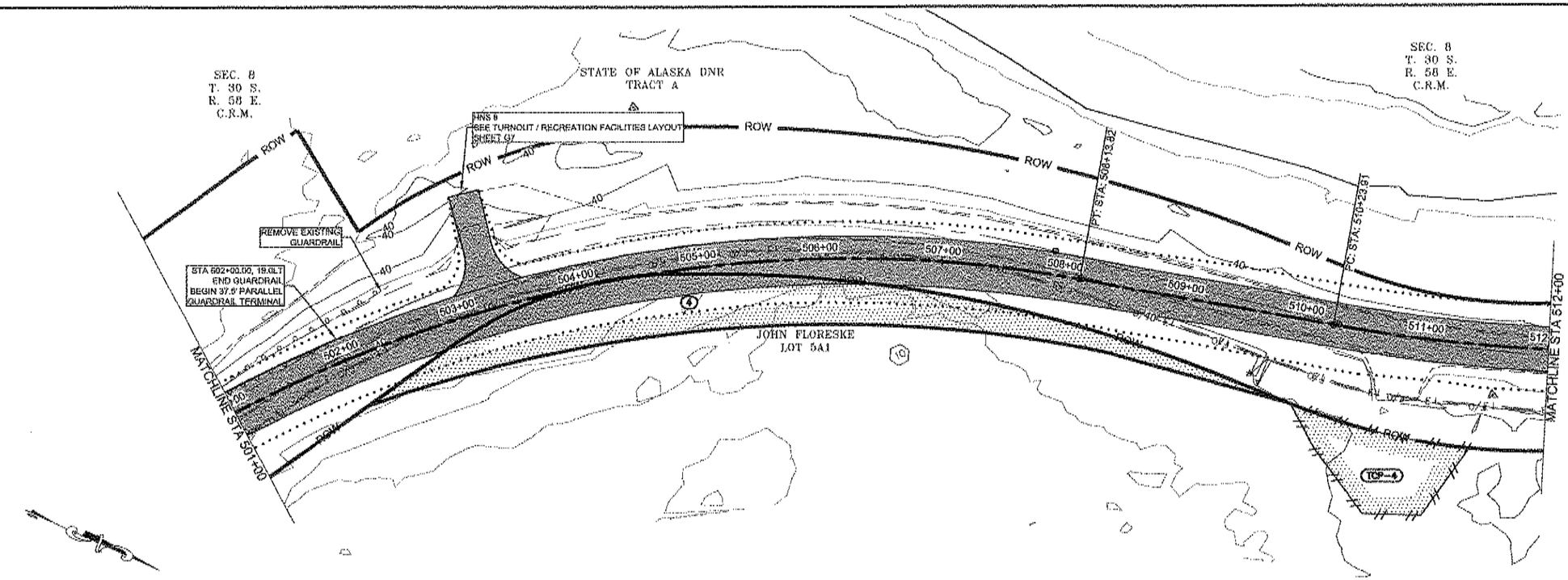
HAINES
HIGHWAY
MP 3.5 TO MP 12
PROJECT #68606

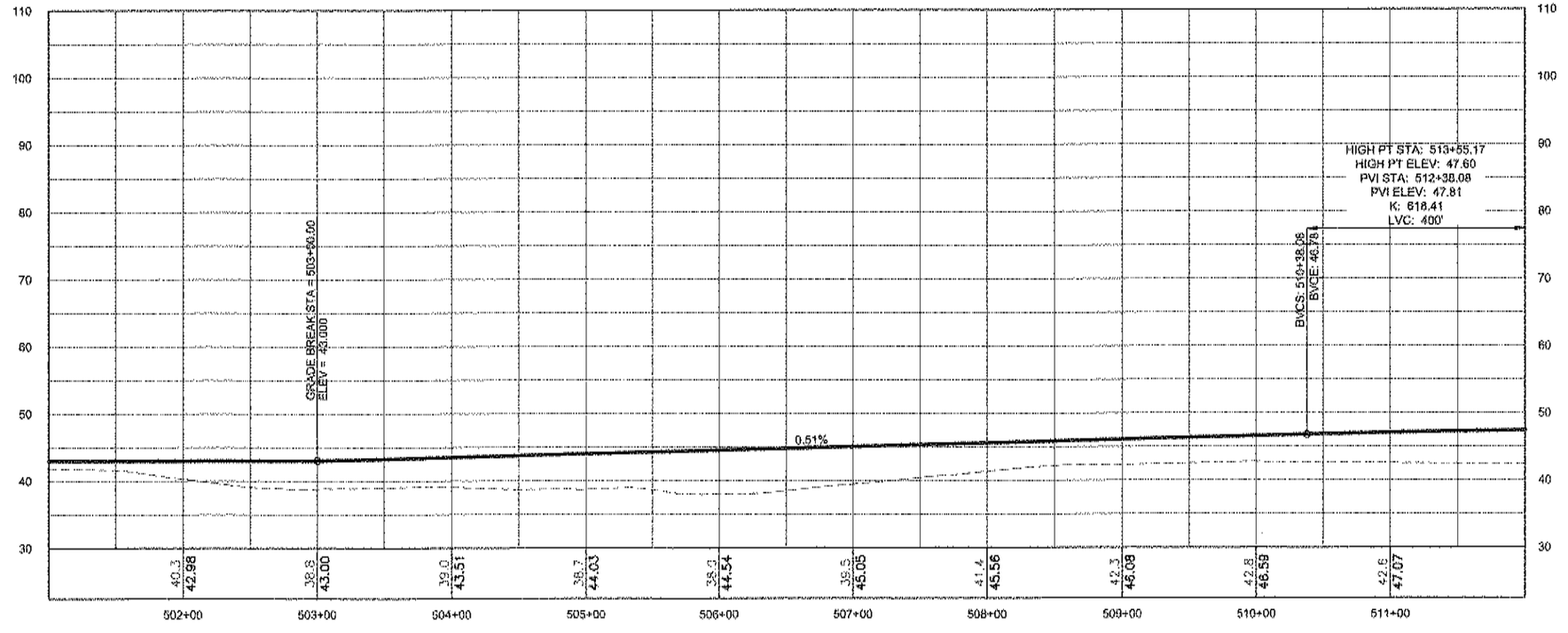
PLAN & PROFILE

PROJECT DESIGNATION

68606

STATE	YEAR
ALASKA	2013
SHEET NUMBER	TOTAL SHEETS
F29	93





PATH: S:\AL\BD59119 HNS DSN\930 DESIGN DRAWINGS\PLAN SET MP 3.5-12\F SHEETS\F21-F40.DWG

KEMP, JENNIFER

TAB: F30 Wednesday, May 15, 2013 3:03:12 PM

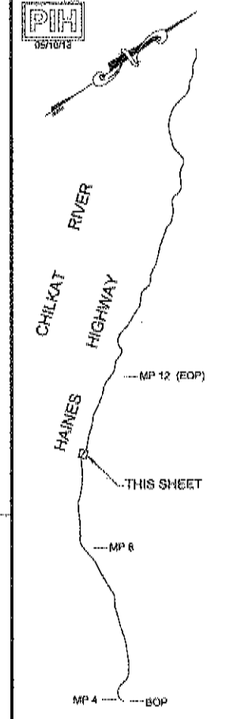
ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

PIH 05/16/13



CHECKED BY: K. KILPATRICK

STATE OF ALASKA 49th
STEVEN K. NOBLE
CE-10051
REGISTERED PROFESSIONAL ENGINEER

DESIGNED BY: N. HOBBS

DRAWN BY: J. KEMP

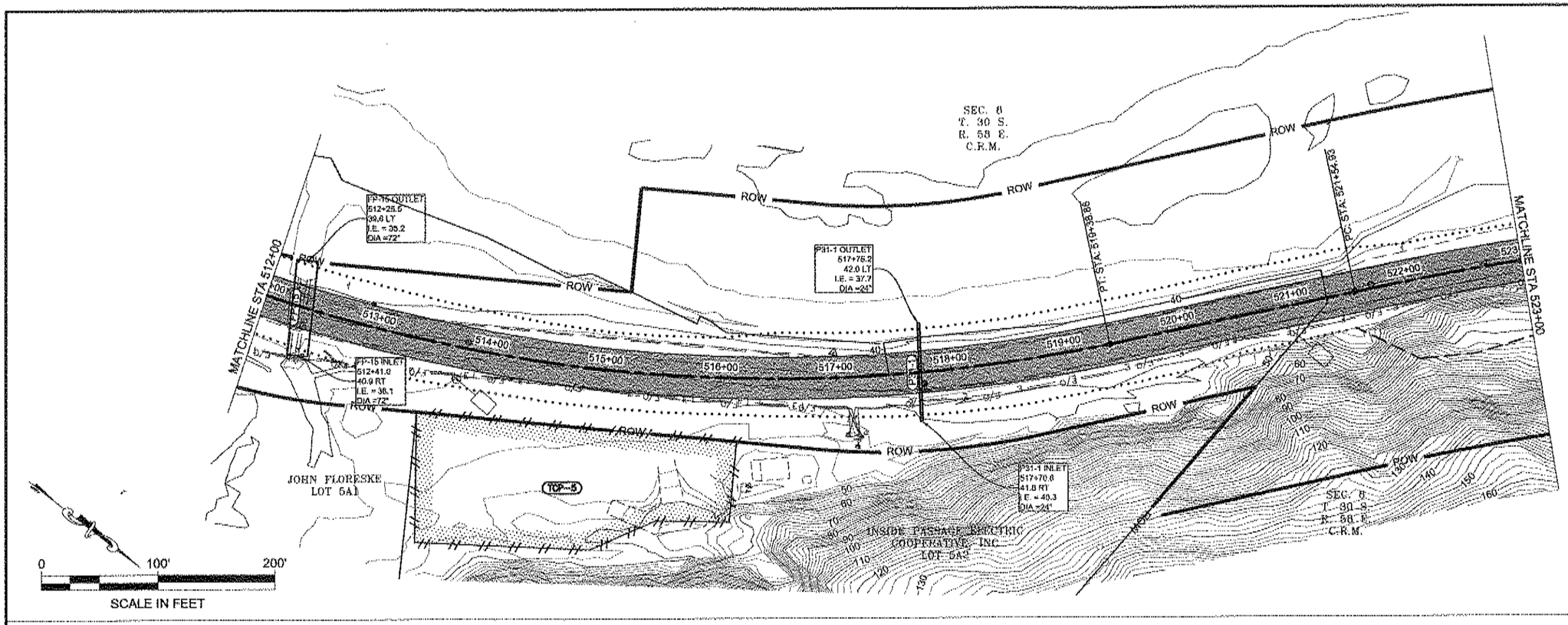
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION

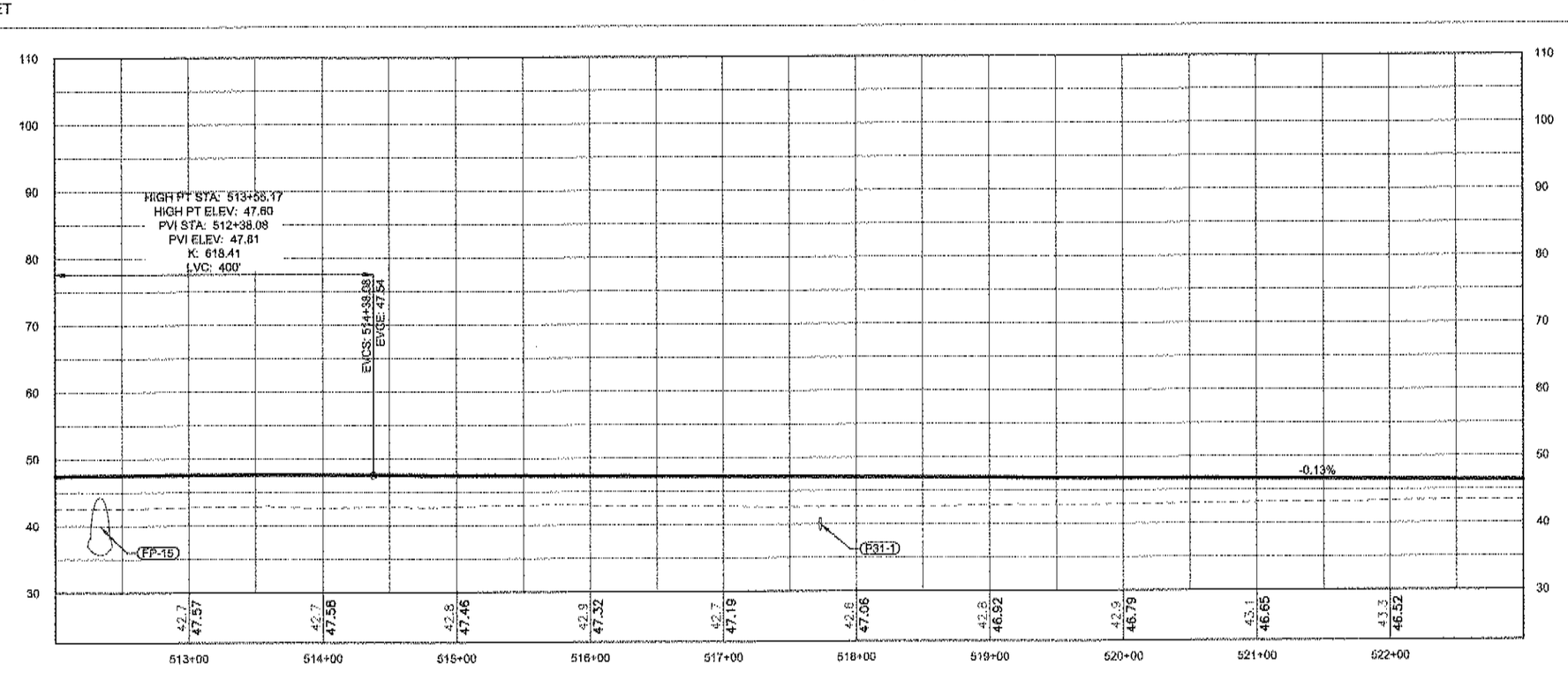
MAINES
HIGHWAY
MP 3.5 TO MP 12
PROJECT #68606

PLAN & PROFILE

PROJECT DESIGNATION	
68606	
STATE	YEAR
ALASKA	2013
SHEET NUMBER	TOTAL SHEETS
F30	93

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS





DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

PATH: S:\LIB\D58119 HNS DSN\050 DESIGN DRAWINGS\PLAN SET MP 3.5-12\F SHEETS\F21-F40.DWG

KEMP, JENNIFER

TAG: F31 Wednesday, May 15, 2013 3:03:24 PM

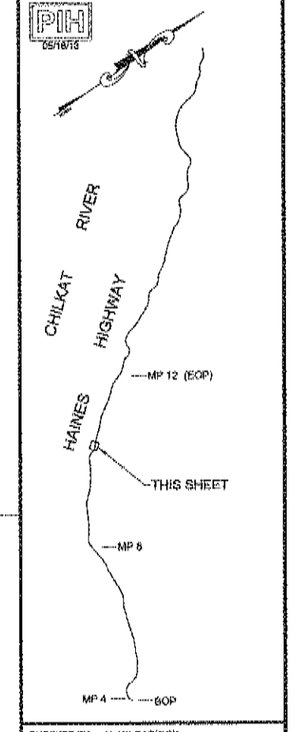
ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

NO.	DATE	DESCRIPTION

PIH 05/16/13



CHECKED BY: K. KILPATRICK

STATE OF ALASKA
49th
STEVEN K. NOBLE
CE-10051
REGISTERED PROFESSIONAL ENGINEER

DESIGNED BY: N. HOBBS

DRAWN BY: J. KEMP

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION

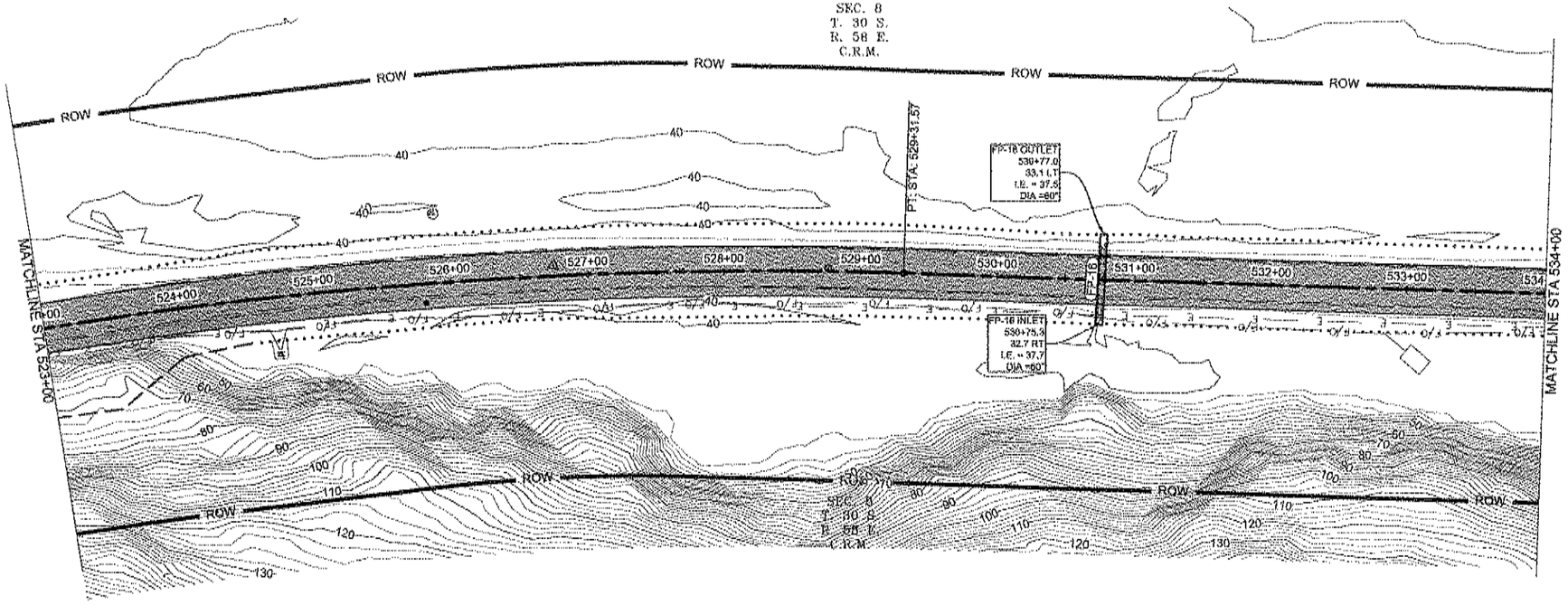
HAINES
HIGHWAY
MP 3.5 TO MP 12
PROJECT #68606

PLAN & PROFILE

PROJECT DESIGNATION

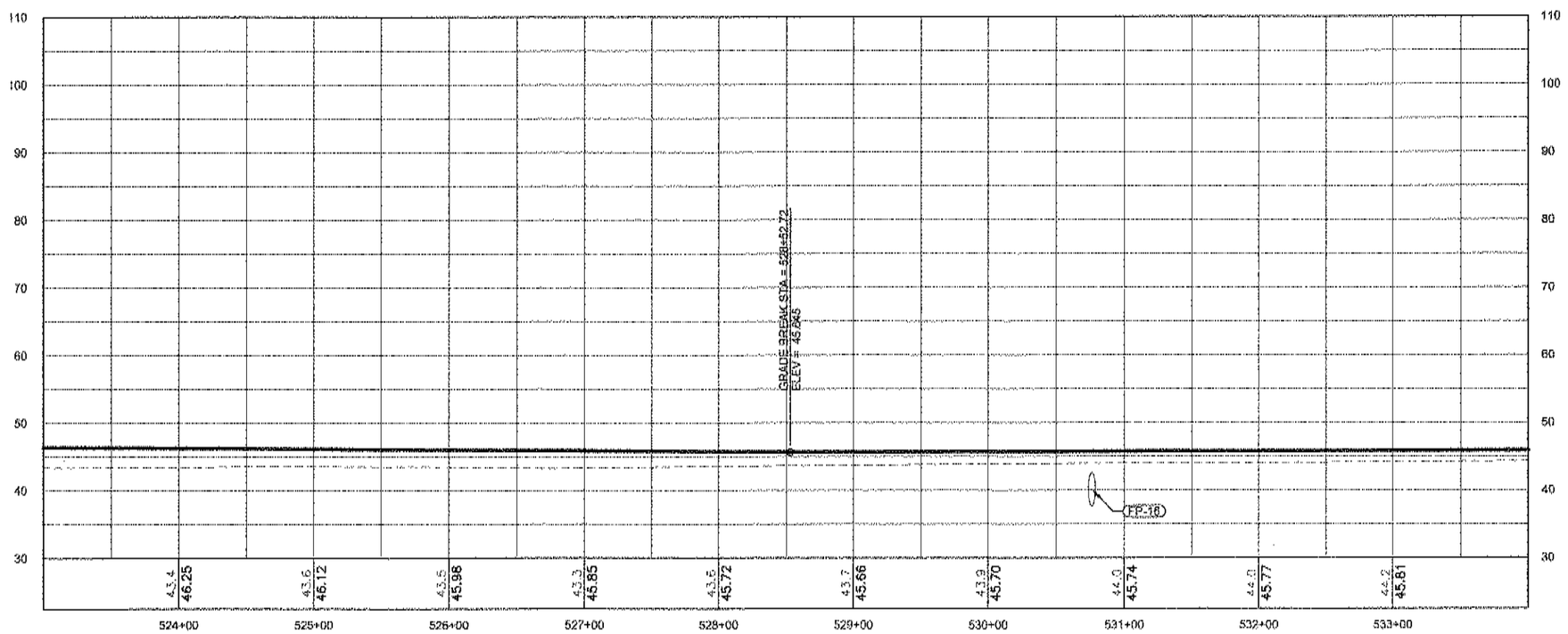
68606

STATE	YEAR
ALASKA	2013
SHEET NUMBER	TOTAL SHEETS
F31	93



0 100' 200'

SCALE IN FEET



DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

PATH: S:\JOB\D59119 HNS DSN\950 DESIGN DRAWINGS\PLAN SET MP 3.5-12\F SHEETS\F21-F40.DWG

KEMP, JENNIFER

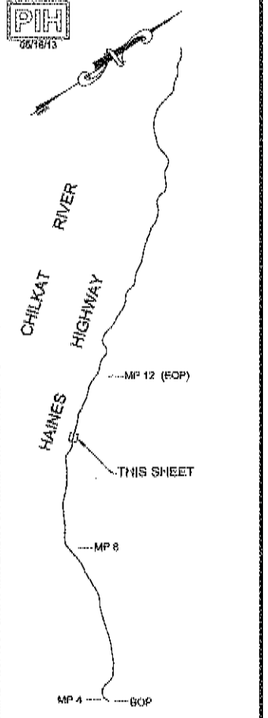
TAB: F32 Wednesday, May 15, 2013 3:03:36 PM

ADDENDUM NUMBER
ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

PIH 05/16/13



CHECKED BY: K. KILPATRICK

STATE OF ALASKA 49th STEVEN K. NOBLE CE-10991 REGISTERED PROFESSIONAL ENGINEER

DESIGNED BY: N. HOBBS

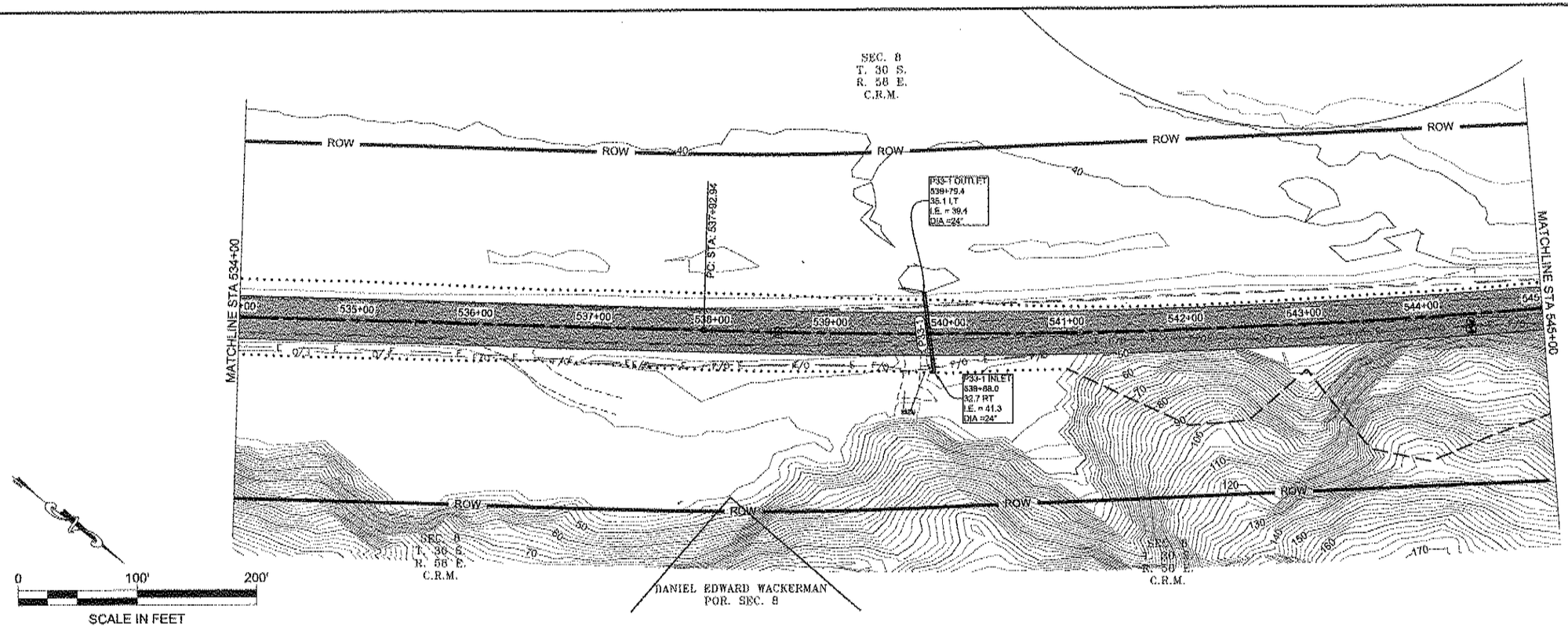
DRAWN BY: J. KEMP

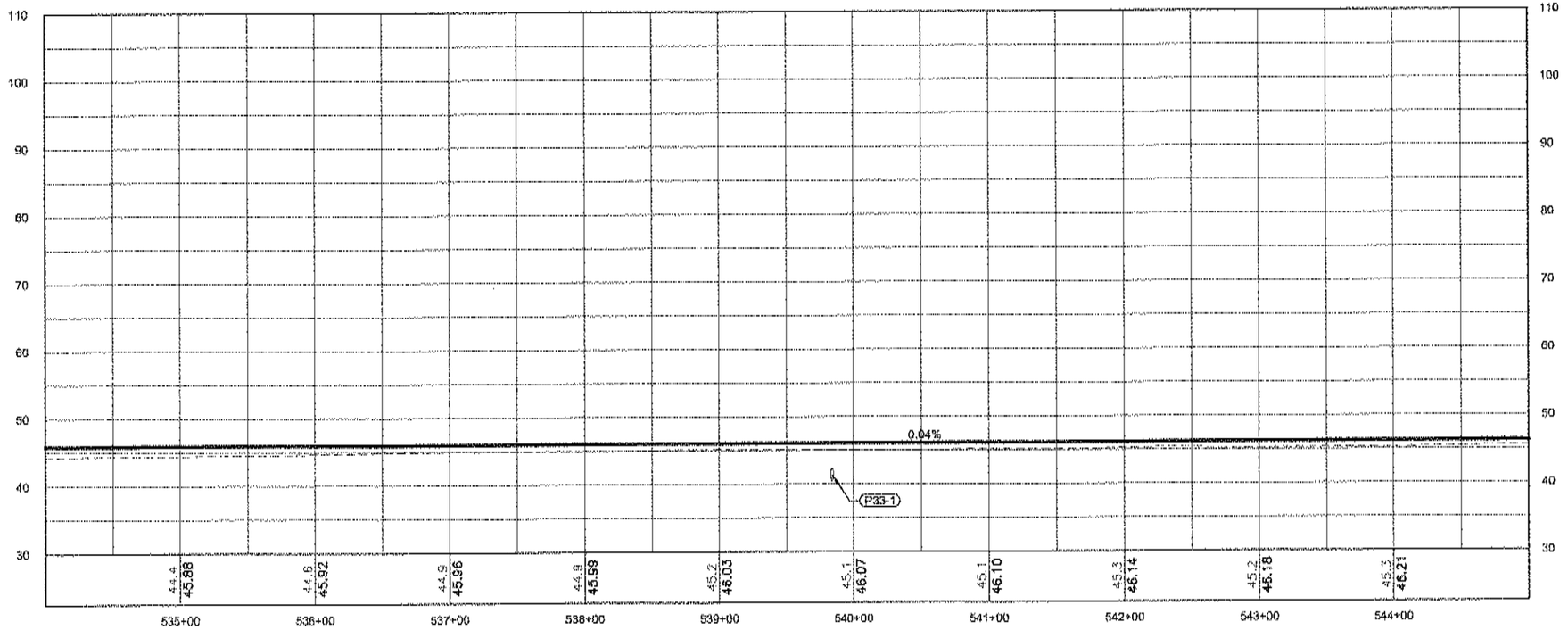
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION

HAINES
HIGHWAY
MP 3.5 TO MP 12
PROJECT #68606

PLAN & PROFILE

PROJECT DESIGNATION	
68606	
STATE	YEAR
ALASKA	2013
SHEET NUMBER	TOTAL SHEETS
F32	93





DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

PATH:S:\LIB\D59119 HNS DSN\930 DESIGN DRAWINGS\PLAN SET MP 3.5-12\F SHEETS\F21-F40.DWG

KEMP, JENNIFER

TAB: F33 Wednesday, May 15, 2013 3:03:49 PM

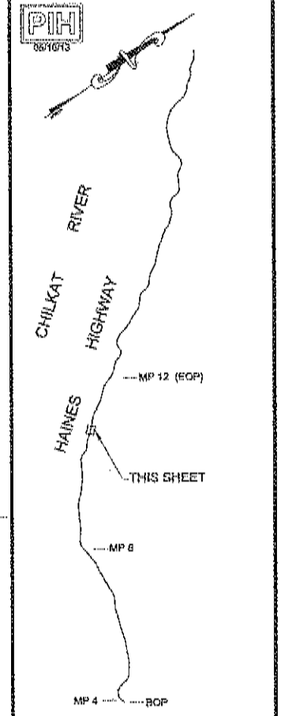
ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

PIH 05/10/13



CHECKED BY: K. KILPATRICK

STATE OF ALASKA
49th
STEVEN K. NOBLE
CE-10961
REGISTERED PROFESSIONAL ENGINEER

DESIGNED BY: N. HOBBS

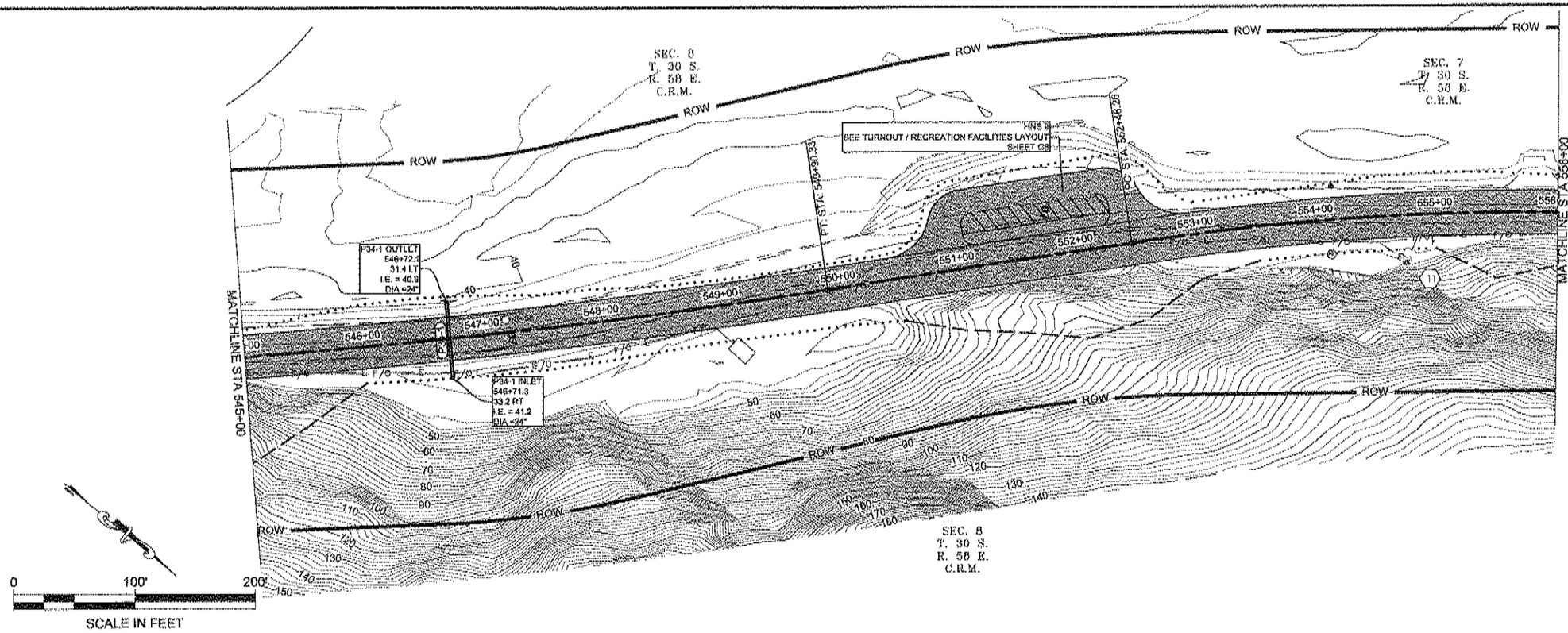
DRAWN BY: J. KEMP

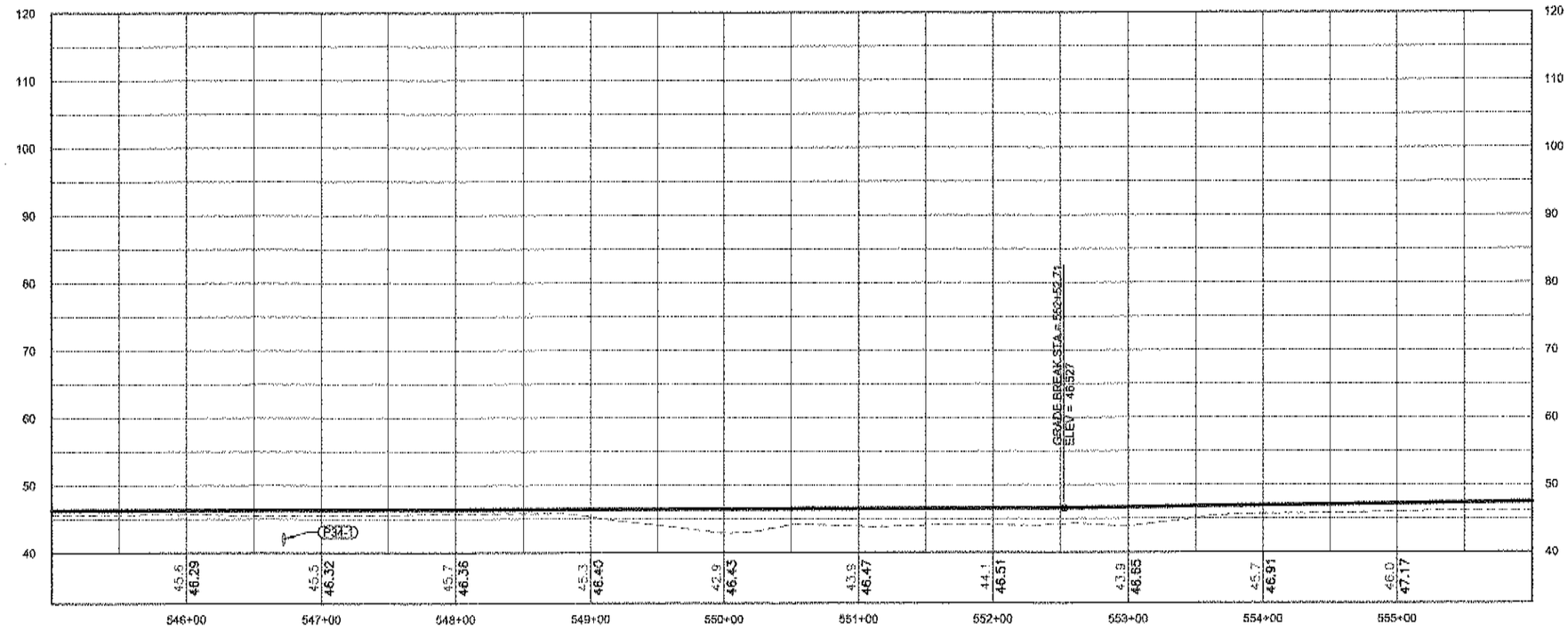
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION

HAINES
HIGHWAY
MP 3.5 TO MP 12
PROJECT #68606

PLAN & PROFILE

PROJECT DESIGNATION	
68606	
STATE	YEAR
ALASKA	2013
SHEET NUMBER	TOTAL SHEETS
F33	93





PATH=S:\L\90\59119 HNS DSN\050 DESIGN DRAWINGS\PLAN SET MP 3.5-12\F SHEETS\F21-F40.DWG

KEMP, JENNIFER

TAG: F34 Wednesday, May 15, 2013 3:04:01 PM

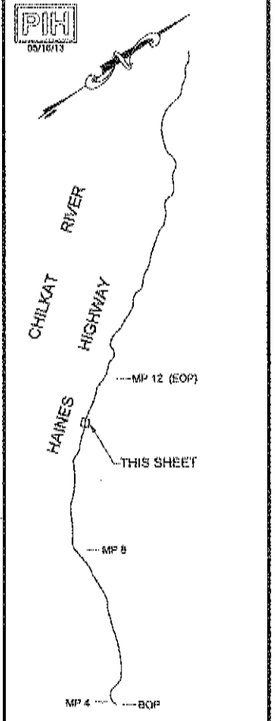
ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

PIH 05/16/13



CHECKED BY: K. KILPATRICK

STATE OF ALASKA
49th
STEVEN K. NOBLE
CE-10051
REGISTERED PROFESSIONAL ENGINEER

DESIGNED BY: N. HOBBS

DRAWN BY: J. KEMP

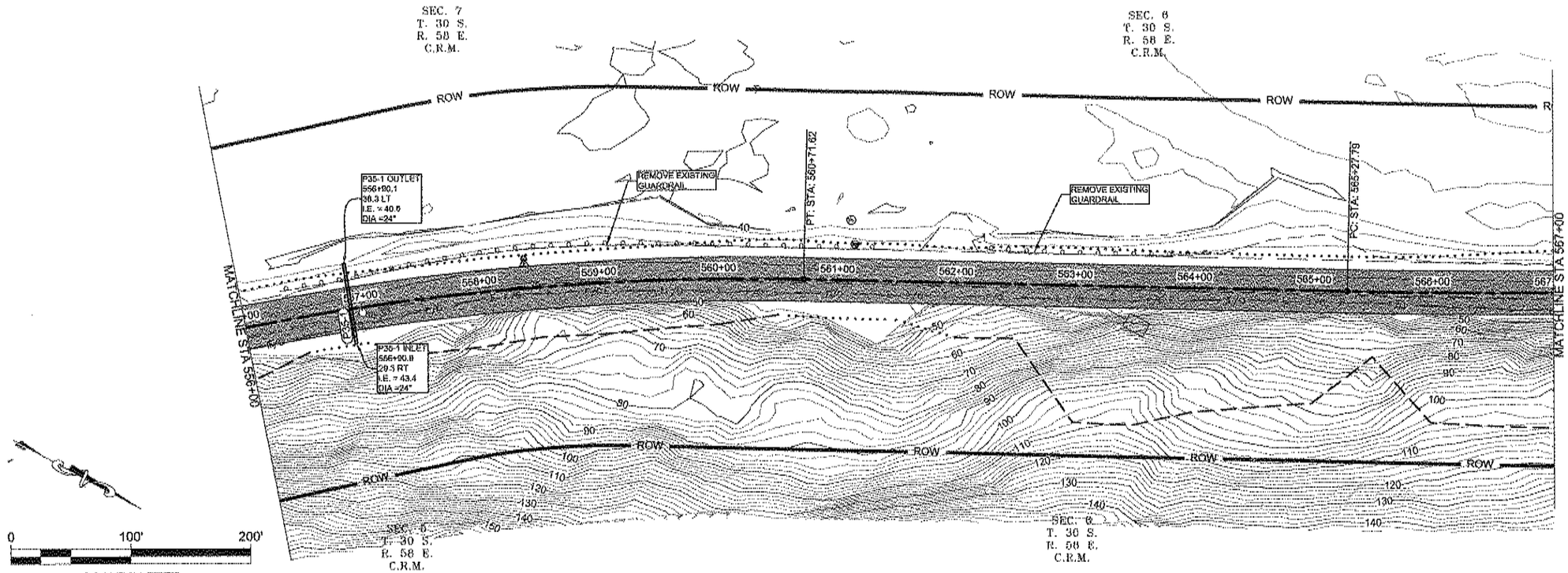
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION

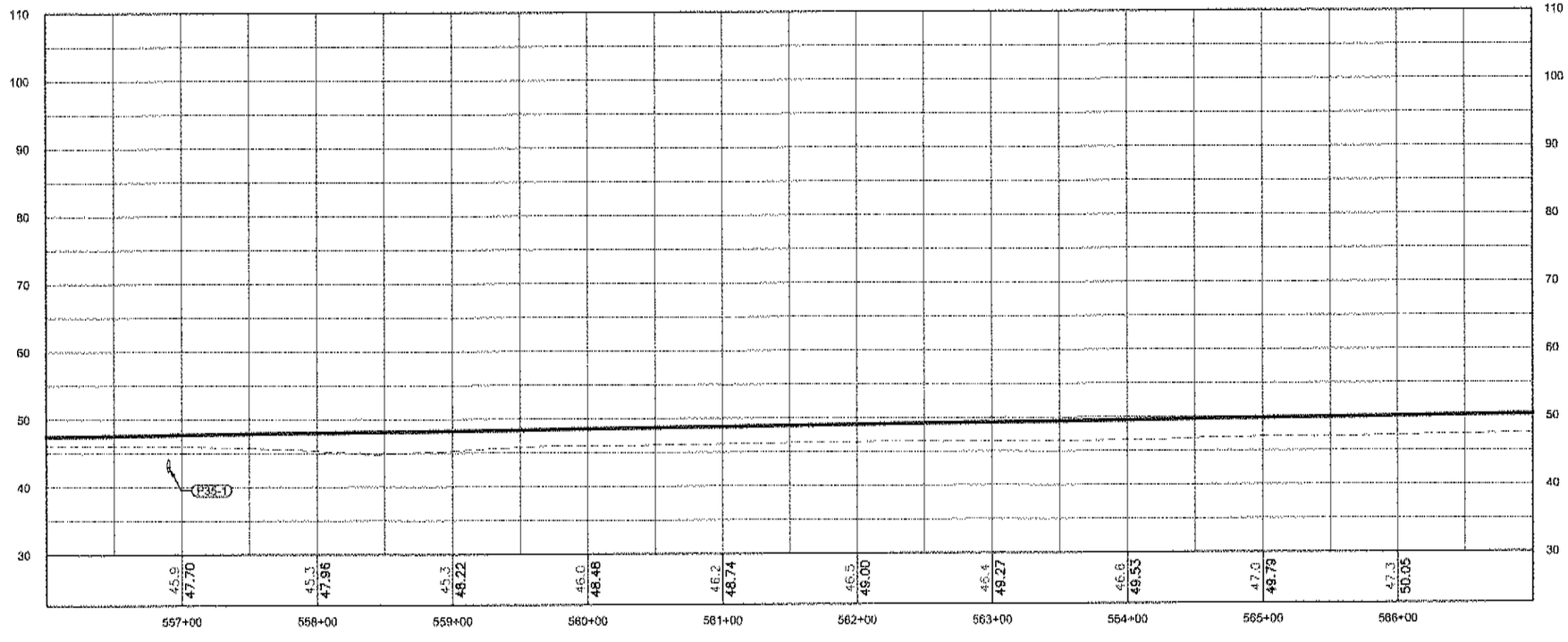
HAINES
HIGHWAY
MP 3.5 TO MP 12
PROJECT #68606

PLAN & PROFILE

PROJECT DESIGNATION	
68606	
STATE	YEAR
ALASKA	2013
SHEET NUMBER	TOTAL SHEETS
F34	93

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS





DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

PATH: S:\LRW\DS9119 HNS DSN\050 DESIGN DRAWINGS\PLAN SET MP 3.5-12\F SHEETS\F21-F40.DWG
KEMP, JENNIFER
TAB: F35 Wednesday, May 15, 2013 3:04:14 PM

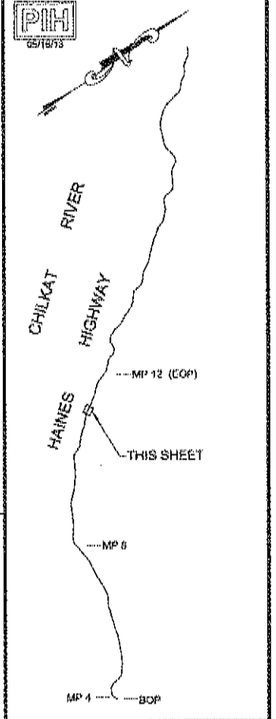
ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

PIH
05/15/13



CHECKED BY: K. KILPATRICK

STATE OF ALASKA
49th
STEVEN K. NOBLE
CE-10081
REGISTERED PROFESSIONAL ENGINEER

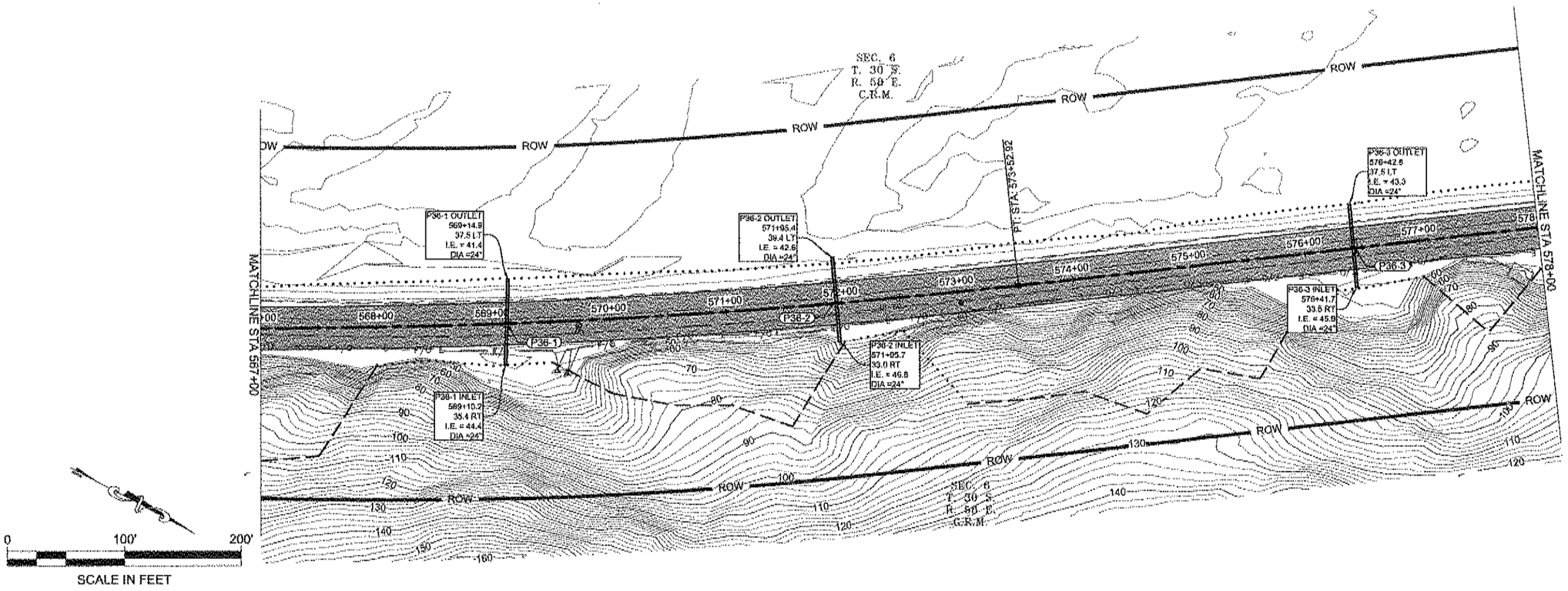
DESIGNED BY: N. HOBBS
DRAWN BY: J. KEMP

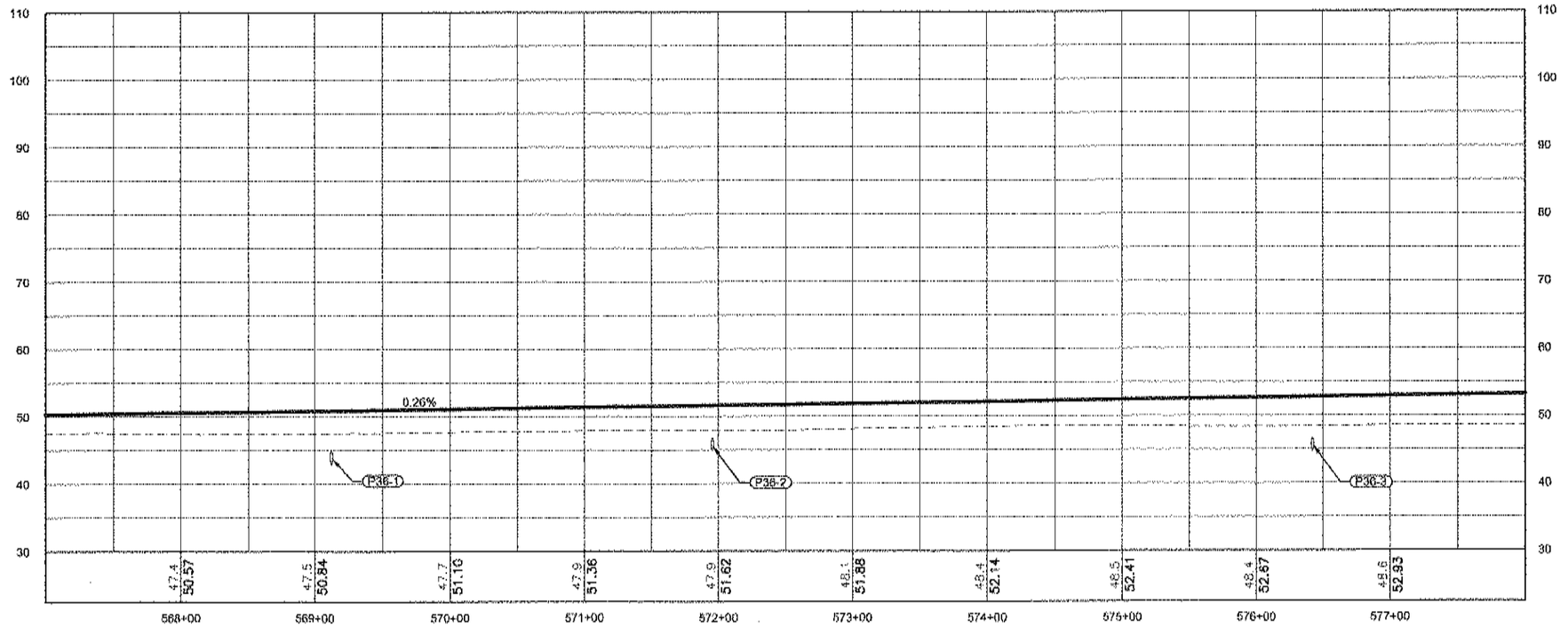
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION

HAINES
HIGHWAY
MP 3.5 TO MP 12
PROJECT #68606

PLAN & PROFILE

PROJECT DESIGNATION	
68606	
STATE	YEAR
ALASKA	2013
SHEET NUMBER	TOTAL SHEETS
F35	93





DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

PATH: S:\LIBID59119 HNS DSN\950 DESIGN DRAWINGS\PLAN SET MP 3.5-12\F SHEETS\F21-F40.DWG
KEMP, JENNIFER
TAB: P36 Wednesday, May 15, 2013 3:04:27 PM

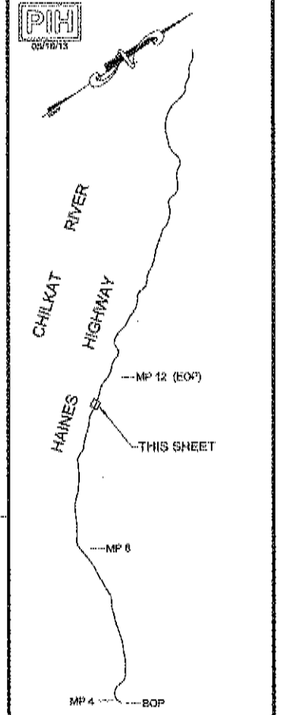
ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

PIH 05/15/13



CHECKED BY: K. KILPATRICK

STATE OF ALASKA 49th
STEVEN K. NOBLE
CE-10251
REGISTERED PROFESSIONAL ENGINEER

DESIGNED BY: N. HOBBS

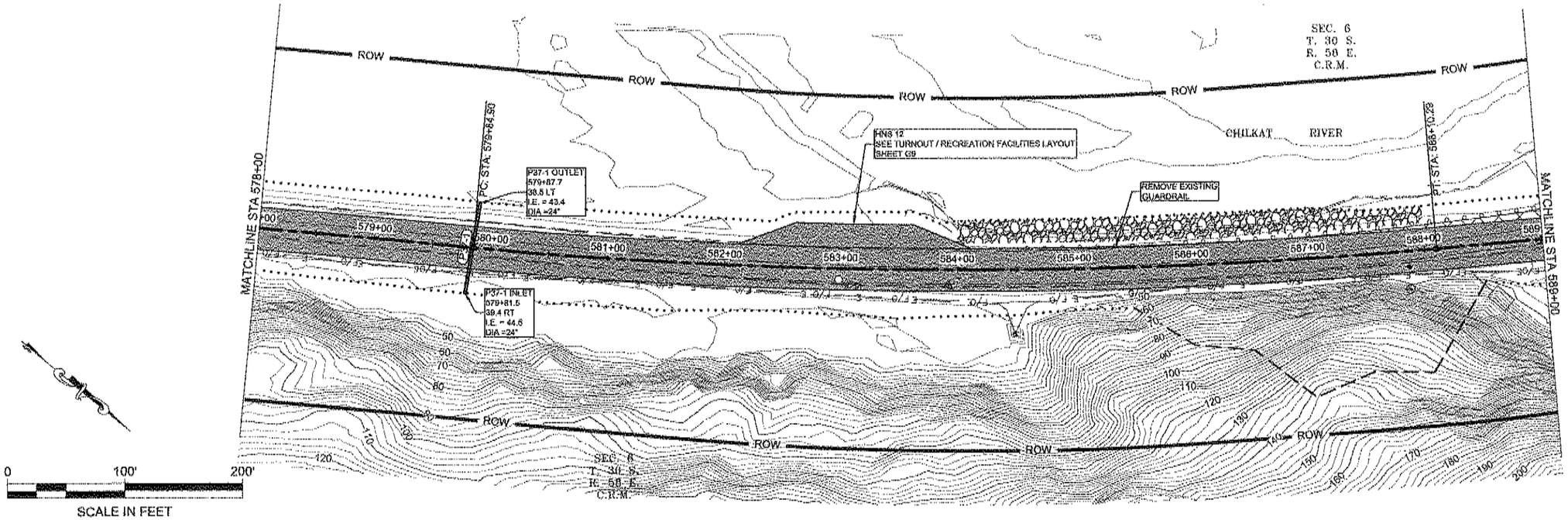
DRAWN BY: J. KEMP

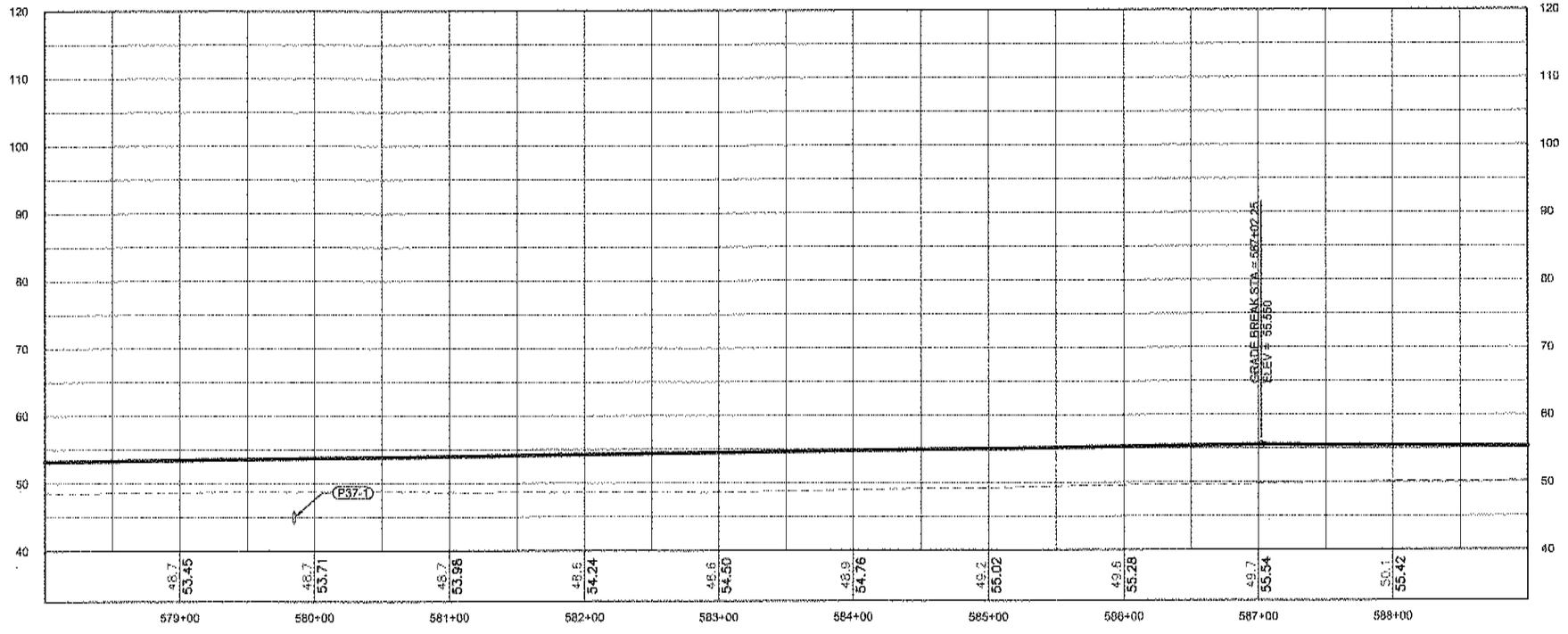
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION

HAINES
HIGHWAY
MP 3.5 TO MP 12
PROJECT #68606

PLAN & PROFILE

PROJECT DESIGNATION	
68606	
STATE	YEAR
ALASKA	2013
SHEET NUMBER	TOTAL SHEETS
F36	93





DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

PATH: S:\LIB\59119 HN8 DSN\050 DESIGN DRAWINGS\PLAN SHT MP 3.5-12\F SHEETS\F21-F40.DWG
KEMP, JENNIFER
TAB: F37 Wednesday, May 15, 2013 3:04:39 PM

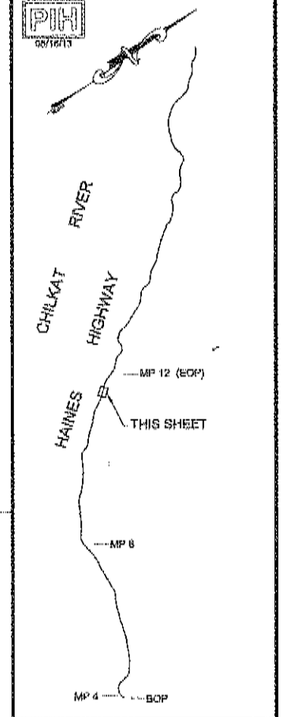
ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

PTH 06/16/13



CHECKED BY: K. KILPATRICK

STATE OF ALASKA
49th
STEVEN K. NOBLE
CE-10061
REGISTERED PROFESSIONAL ENGINEER

DESIGNED BY: N. HOBBS

DRAWN BY: J. KEMP

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION

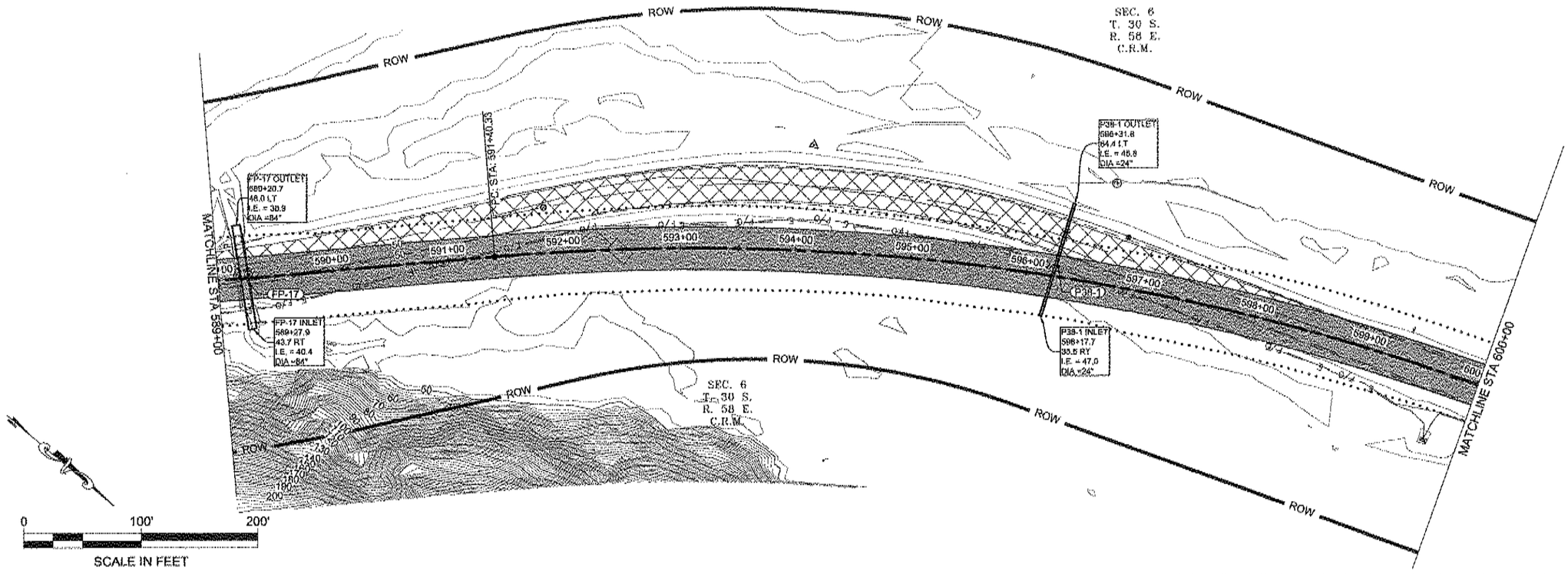
HAINES
HIGHWAY
MP 3.5 TO MP 12
PROJECT #68606

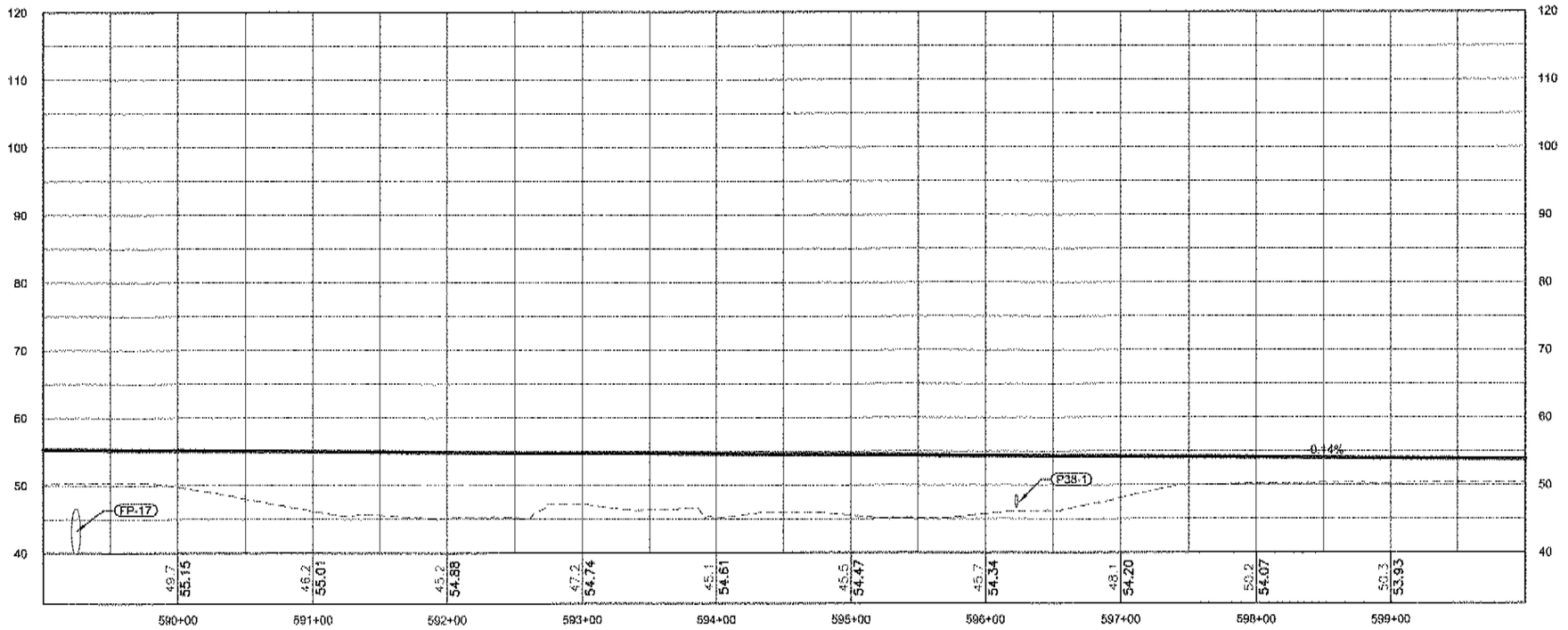
PLAN & PROFILE

PROJECT DESIGNATION

68606

STATE	YEAR
ALASKA	2013
SHEET NUMBER	TOTAL SHEETS
F37	93





DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

PATH: S:\LIB\D28119 HNS DSN\050 DESIGN DRAWINGS\PLAN SET MP 3.5-12\F SHEETS\F21-F40.DWG

KEMP, JENNIFER

TAB: F38 Wednesday, May 15, 2013 3:04:52 PM

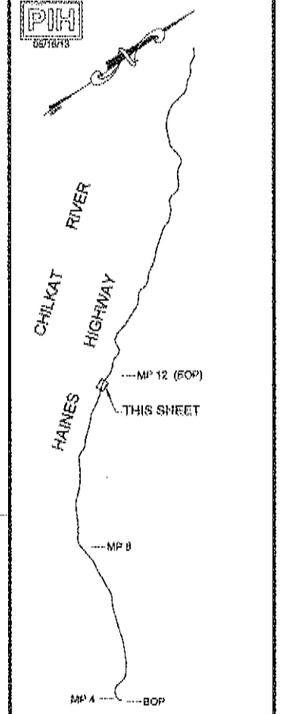
ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

PIH
05/16/13



CHECKED BY: K. KILPATRICK

STATE OF ALASKA
49th
STEVEN K. NOBLE
CE-10061
REGISTERED PROFESSIONAL ENGINEER

DESIGNED BY: N. HOBBS

DRAWN BY: J. KEMP

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION

HAINES
HIGHWAY
MP 3.5 TO MP 12
PROJECT #68606

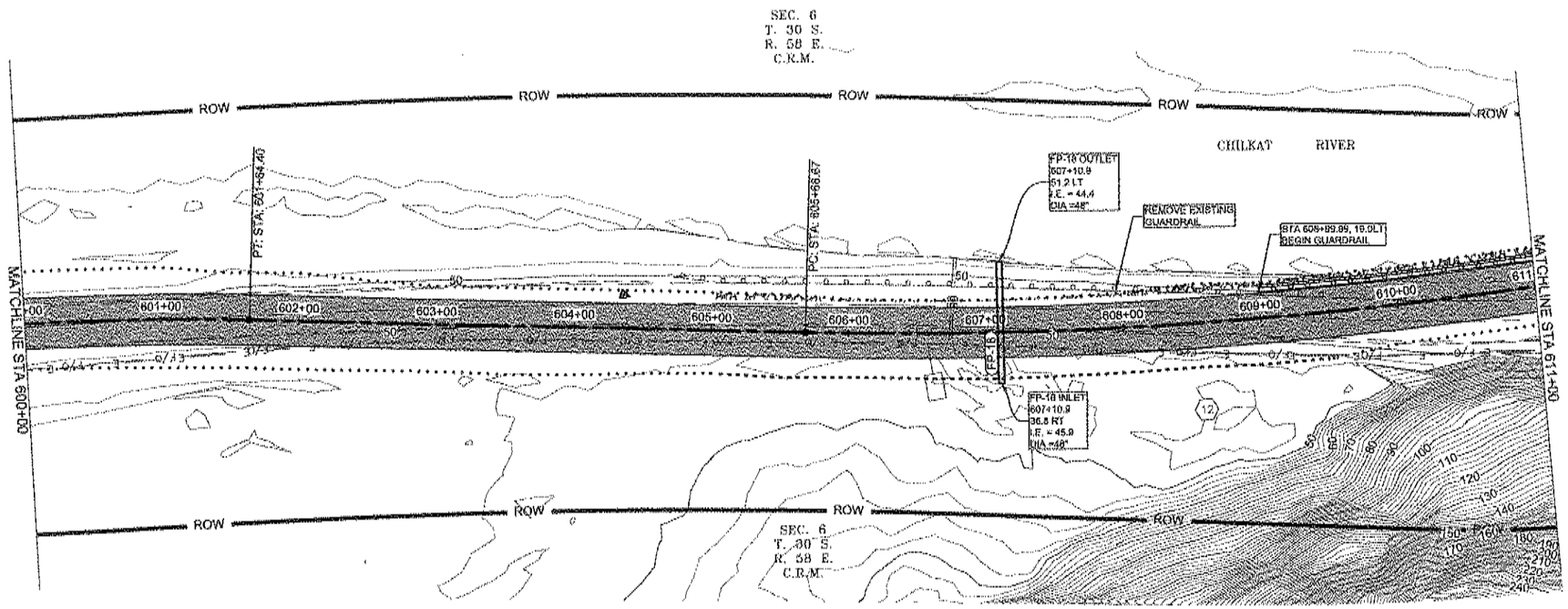
PLAN & PROFILE

PROJECT DESIGNATION

68606

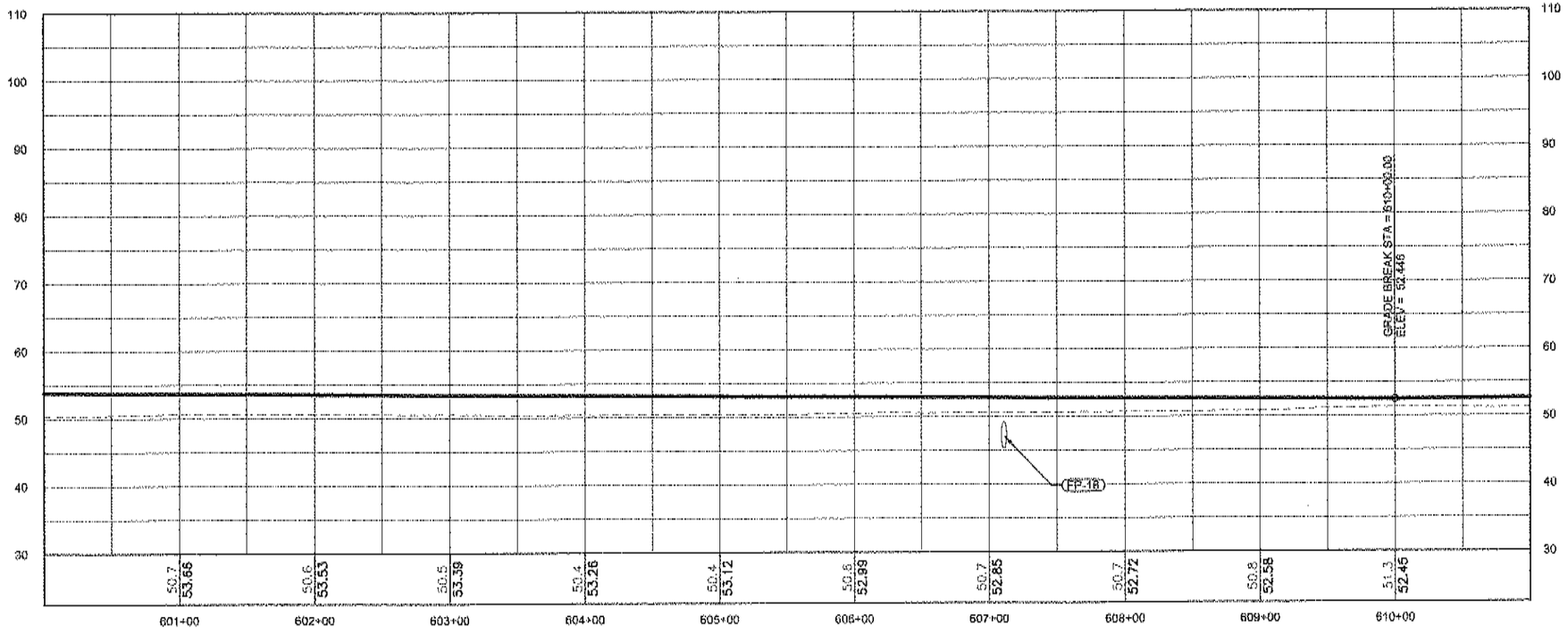
STATE	YEAR
ALASKA	2013

SHEET NUMBER	TOTAL SHEETS
F38	93



0 100' 200'

SCALE IN FEET



DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

PATH: S:\LIB\068118 HNS DSN\050 DESIGN DRAWINGS\PLAN SET MP 3.5-12\F SHEETS\F21-F49.DWG

KEMP, JENNIFER

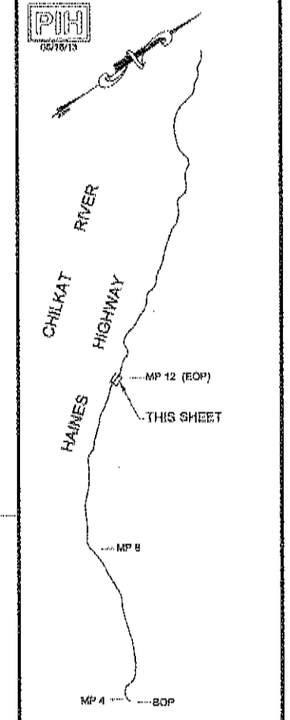
TAB: F39 Wednesday, May 15, 2013 3:08:05 PM

ADDENDUM NUMBER
ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

PIH
05/15/13



CHECKED BY: K. KILPATRICK

STATE OF ALASKA
49th
STEVEN K. NOBLE
CE-10001
REGISTERED PROFESSIONAL ENGINEER

DESIGNED BY: N. HOBBS

DRAWN BY: J. KEMP

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION

HAINES
HIGHWAY
MP 3.5 TO MP 12
PROJECT #68606

PLAN & PROFILE

PROJECT DESIGNATION

68606

STATE	YEAR
ALASKA	2013
SHEET NUMBER	TOTAL SHEETS
F39	93

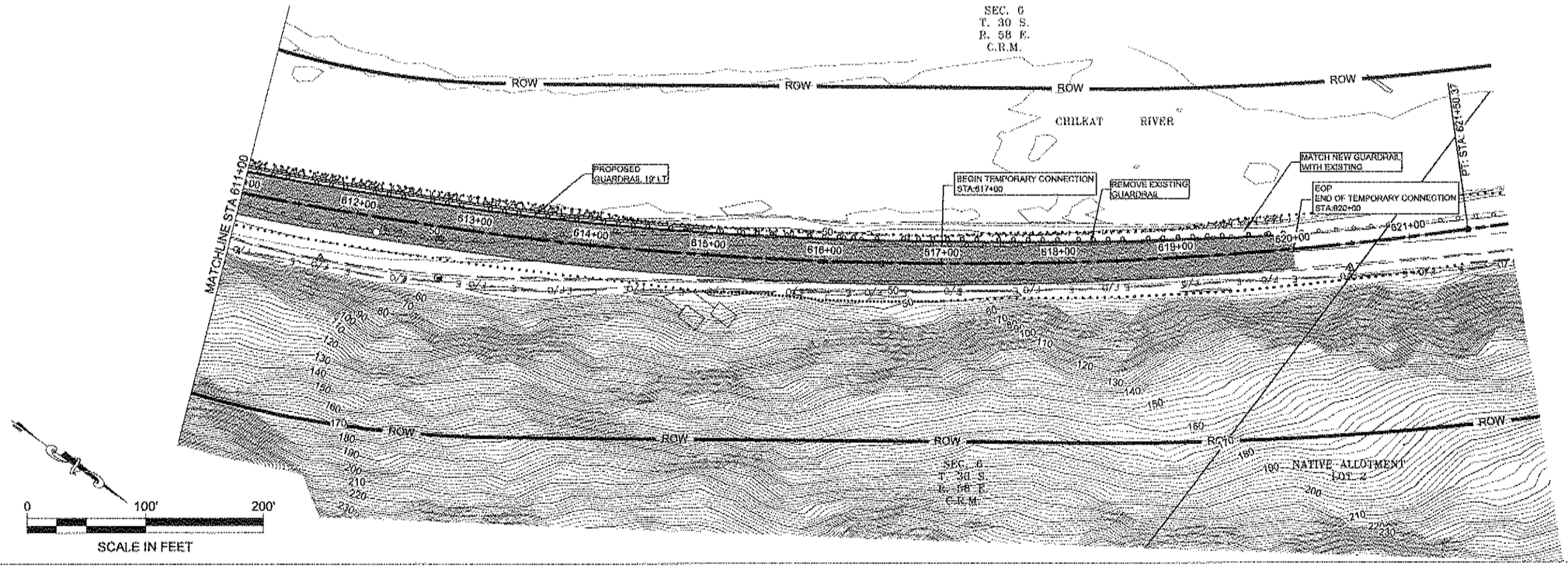
PATH: S:\LIB\D50\19 HNS DSN\50 DESIGN DRAWINGS\PLAN SET MP 3.5-12\F SHEETS\F21-F40.DWG
KEMP, JENNIFER
TAB: F40 Wednesday, May 15, 2013 3:05:17 PM

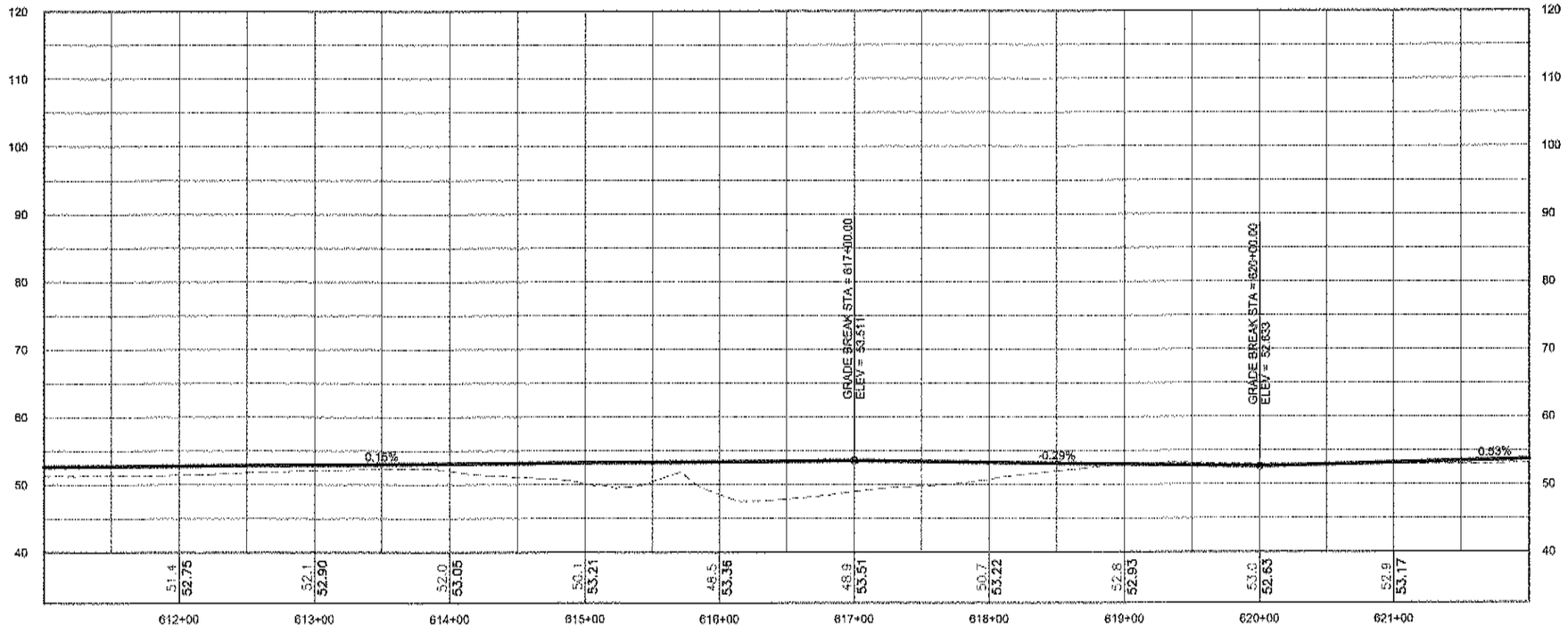
ADDENDUM NUMBER

ATTACHMENT NUMBER

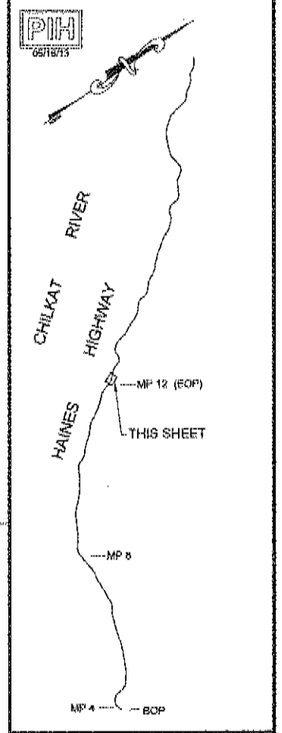
RECORD OF REVISIONS

No.	DATE	DESCRIPTION





DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS



CHECKED BY: K. KILPATRICK

STATE OF ALASKA
49th
STEVEN K. NOBLE
CE-10051
REGISTERED PROFESSIONAL ENGINEER

DESIGNED BY: N. HOBBS

DRAWN BY: J. KEMP

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION

HAINES
HIGHWAY
MP 3.5 TO MP 12
PROJECT #68606

PLAN & PROFILE

PROJECT DESIGNATION	
68606	
STATE	YEAR
ALASKA	**2013**
SHEET NUMBER	TOTAL SHEETS
F40	**93**

PATH: S:\JUB\D59119 HNS DSN\050 DESIGN DRAWINGS\PLAN SET MP 3.5-12\G SHEETS\G1-G9.DWG

SIMS, CANDY

TAB: G1 Wednesday, May 15, 2013 3:31:32 PM

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

HNS1

HNS2

STA:198+26.93
OFF:75.78'LT
ELEV:33.34

STA:198+42.01
OFF:56.11'LT
ELEV:32.66

STA:198+31.95
OFF:38.46'LT
ELEV:36.77

STA:197+96.67
OFF:38.46'LT
ELEV:36.82

STA:202+20.54
OFF:46.73'LT
ELEV:33.28

STA:202+18.74
OFF:38.46'LT
ELEV:33.75

STA:202+43.62
OFF:47.14'LT
ELEV:33.38

STA:202+44.81
OFF:38.46'LT
ELEV:33.95

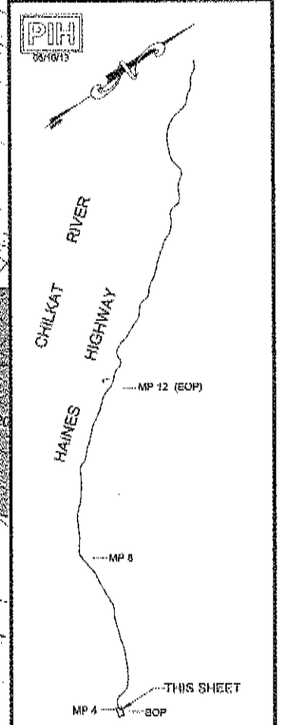
198+00 199+00 200+00 201+00 202+00

OHE

U.S.S. 908

0 40' 80'

SCALE IN FEET



CHECKED BY: K. KILPATRICK

STATE OF ALASKA
49th
STEVEN K. NOBLE
CE-10051
REGISTERED PROFESSIONAL ENGINEER

DESIGNED BY: N. HOBBS

DRAWN BY: J. KEMP

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION

HAINES
HIGHWAY
MP 3.5 TO MP 12
PROJECT #68608

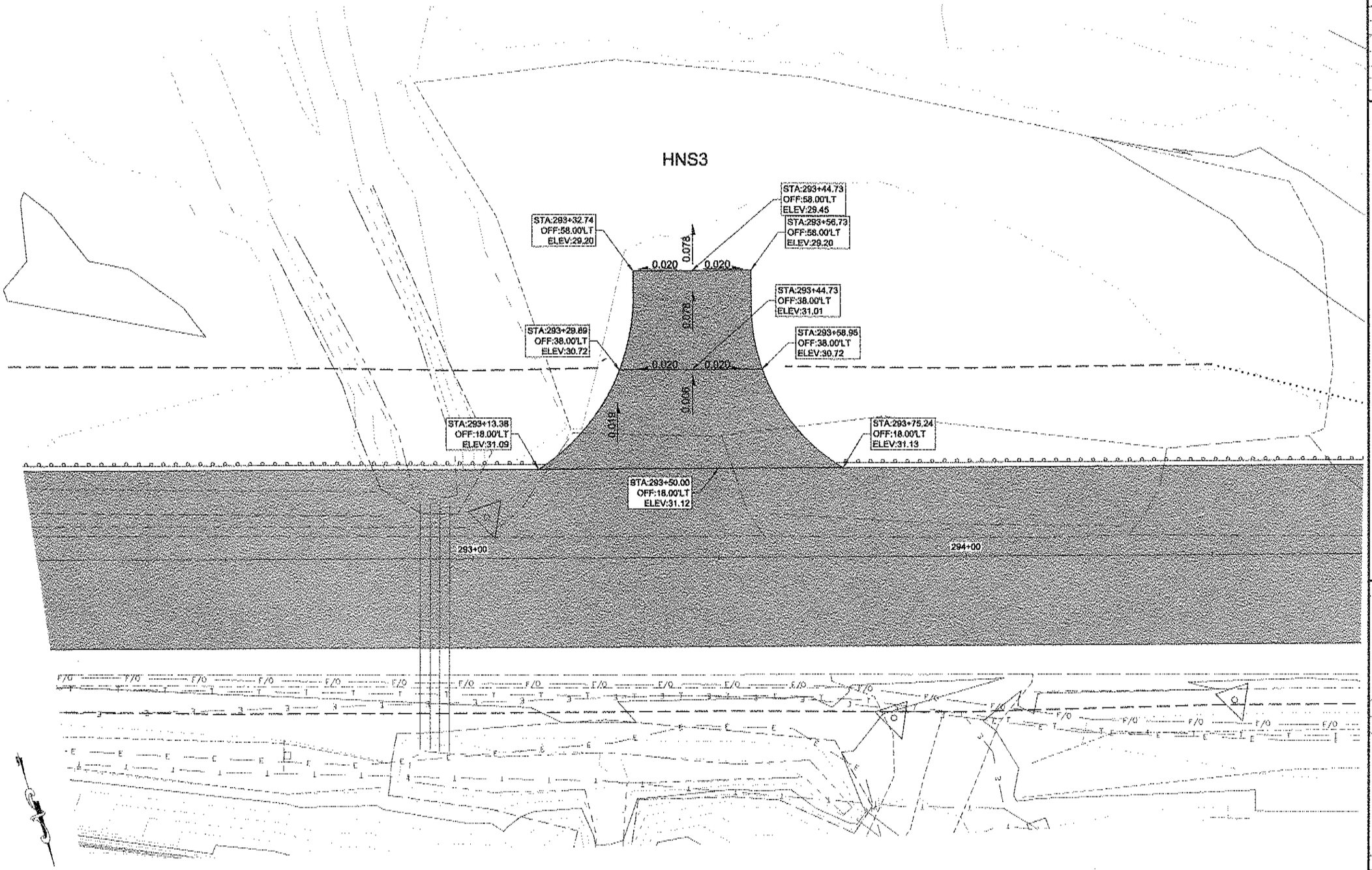
TURNOUT/RECREATION FACILITIES LAYOUT

PROJECT DESIGNATION

68606

STATE	YEAR
ALASKA	2013
SHEET NUMBER	TOTAL SHEETS
G1	93

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS



DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

PATH: S:\USR\259119 HNS OSN\050 DESIGN DRAWINGS\PLAN SET MP 3.5-12\G SHEETS\G1-G3.DWG

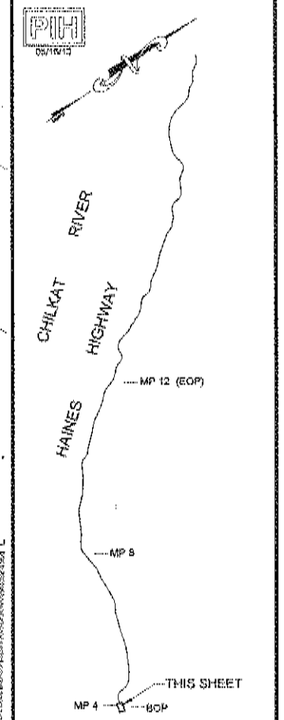
SIMS, CANDY

TAB: G2 Wednesday, May 15, 2013 3:31:44 PM

ADDENDUM NUMBER
ATTACHMENT NUMBER

RECORD OF REVISIONS

No	DATE	DESCRIPTION



CHECKED BY: K. KILPATRICK

STATE OF ALASKA
49th
STEVEN R. NOBLE
CE-10951
REGISTERED PROFESSIONAL ENGINEER

DESIGNED BY: N. HOBBS

DRAWN BY: J. KEMP

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION

HAINES
HIGHWAY
MP 3.5 TO MP 12
PROJECT #68606

TURNOUT/RECREATION FACILITIES LAYOUT

PROJECT DESIGNATION

68606

STATE	YEAR
ALASKA	2013
SHEET NUMBER	TOTAL SHEETS
G2	93

PATH:S:\L16\D59119 HNS DSN\050 DESIGN DRAWINGS\PLAN SET MP 3.5-12\G SHEETS\01-39.DWG
BIMS, CANDY
TAB: G3 Wednesday, May 15, 2013 3:31:55 PM

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No	DATE	DESCRIPTION

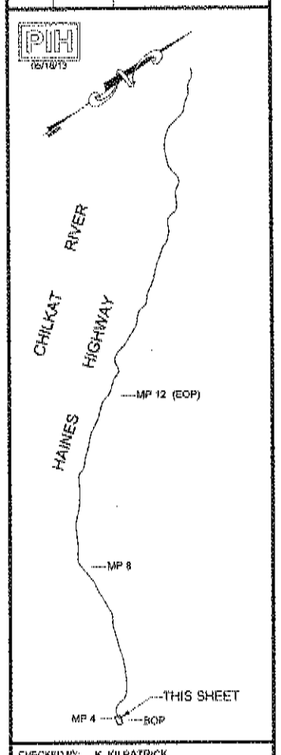
HNS4

STA:343+54.76 OFF:58.00'LT ELEV:33.89
STA:343+42.76 OFF:58.00'LT ELEV:33.65
STA:343+66.78 OFF:58.00'LT ELEV:33.65
STA:343+40.23 OFF:38.00'LT ELEV:34.08
STA:343+54.78 OFF:38.00'LT ELEV:34.37
STA:343+23.83 OFF:18.00'LT ELEV:34.47
STA:343+69.29 OFF:38.00'LT ELEV:34.10
STA:343+50.00 OFF:18.00'LT ELEV:34.49
STA:343+85.68 OFF:18.00'LT ELEV:34.51
341+00
342+00
343+00
344+00
345+00
STA:343+41.12 OFF:38.00'RT ELEV:34.37
STA:343+02.64 OFF:18.00'RT ELEV:34.46
STA:343+50.00 OFF:18.00'RT ELEV:34.49
STA:343+79.35 OFF:18.00'RT ELEV:34.51
STA:343+22.96 OFF:38.00'RT ELEV:34.07
STA:343+59.24 OFF:38.00'RT ELEV:34.10
STA:343+29.10 OFF:62.00'RT ELEV:34.39
STA:343+41.11 OFF:62.00'RT ELEV:34.63
STA:343+41.10 OFF:83.97'RT ELEV:34.76
STA:343+53.10 OFF:62.00'RT ELEV:34.39
STA:342+57.09 OFF:83.94'RT ELEV:34.78
STA:343+20.10 OFF:83.96'RT ELEV:34.34
STA:343+58.05 OFF:83.97'RT ELEV:34.42
STA:342+42.85 OFF:104.10'RT ELEV:35.18
STA:343+41.09 OFF:103.97'RT ELEV:34.98
STA:343+58.05 OFF:103.97'RT ELEV:34.64
STA:343+41.08 OFF:121.75'RT ELEV:35.20
STA:342+57.08 OFF:123.94'RT ELEV:36.58
STA:343+20.09 OFF:123.97'RT ELEV:35.14
HNS4A

BUR. OF LAND MANAGEMENT
LOT 3

0 40' 80'
SCALE IN FEET

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS



CHECKED BY: K. KILPATRICK

STATE OF ALASKA 49th STEVEN K. NOBLE OE-10051 REGISTERED PROFESSIONAL ENGINEER

DESIGNED BY: N. HOBBS

DRAWN BY: J. KEMP

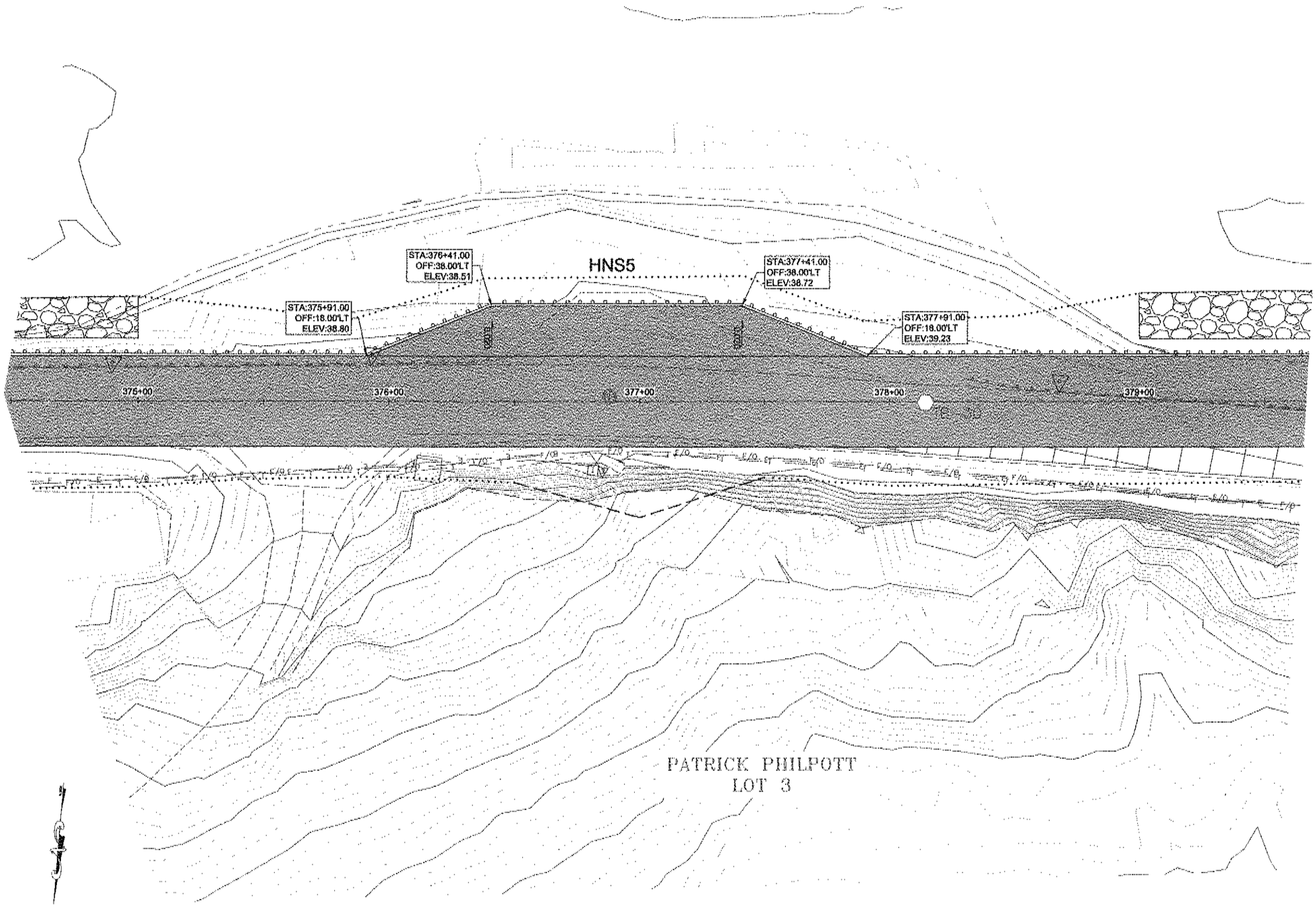
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SOUTHEAST REGION

HAINES
HIGHWAY
MP 3.5 TO MP 12
PROJECT #68606

TURNOUT/RECREATION FACILITIES LAYOUT

PROJECT DESIGNATION
68606

STATE	YEAR
ALASKA	2013
SHEET NUMBER	TOTAL SHEETS
G3	93



0 40' 80'

SCALE IN FEET

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

PATH:S:\LIB\DS\119 HNS DSN\050 DESIGN DRAWINGS\PLAN SET MP 3.5-12\G SHEETS\G1-09.DWG

SIMS, CANDY

TAB: Q4 Wednesday, May 16, 2013 3:32:06 PM

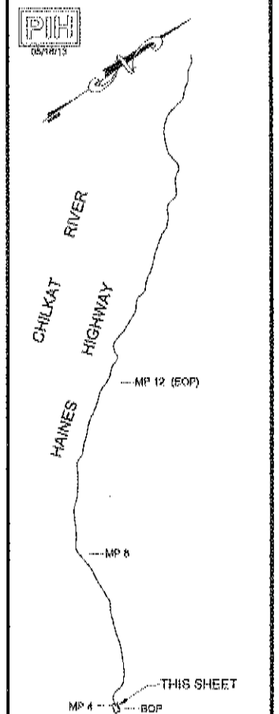
ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

PIH (05/16/13)



CHECKED BY: K. KILPATRICK

STATE OF ALASKA 49th
STEVEN K. NOBLE
CE-10051
REGISTERED PROFESSIONAL ENGINEER

DESIGNED BY: N. HOBBS

DRAWN BY: J. KEMP

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION

HAINES
HIGHWAY
MP 3.5 TO MP 12
PROJECT #68606

TURNOUT/RECREATION FACILITIES LAYOUT

PROJECT DESIGNATION

68606

STATE	YEAR
ALASKA	**2013**
SHEET NUMBER	TOTAL SHEETS
G4	**93**

PATH: S:\JUB\D59118 HNS DSN\050 DESIGN DRAWINGS\PLAN SET MP 3.5-12\G SHEETS\G1-G9.DWG

SIMS, CANDY

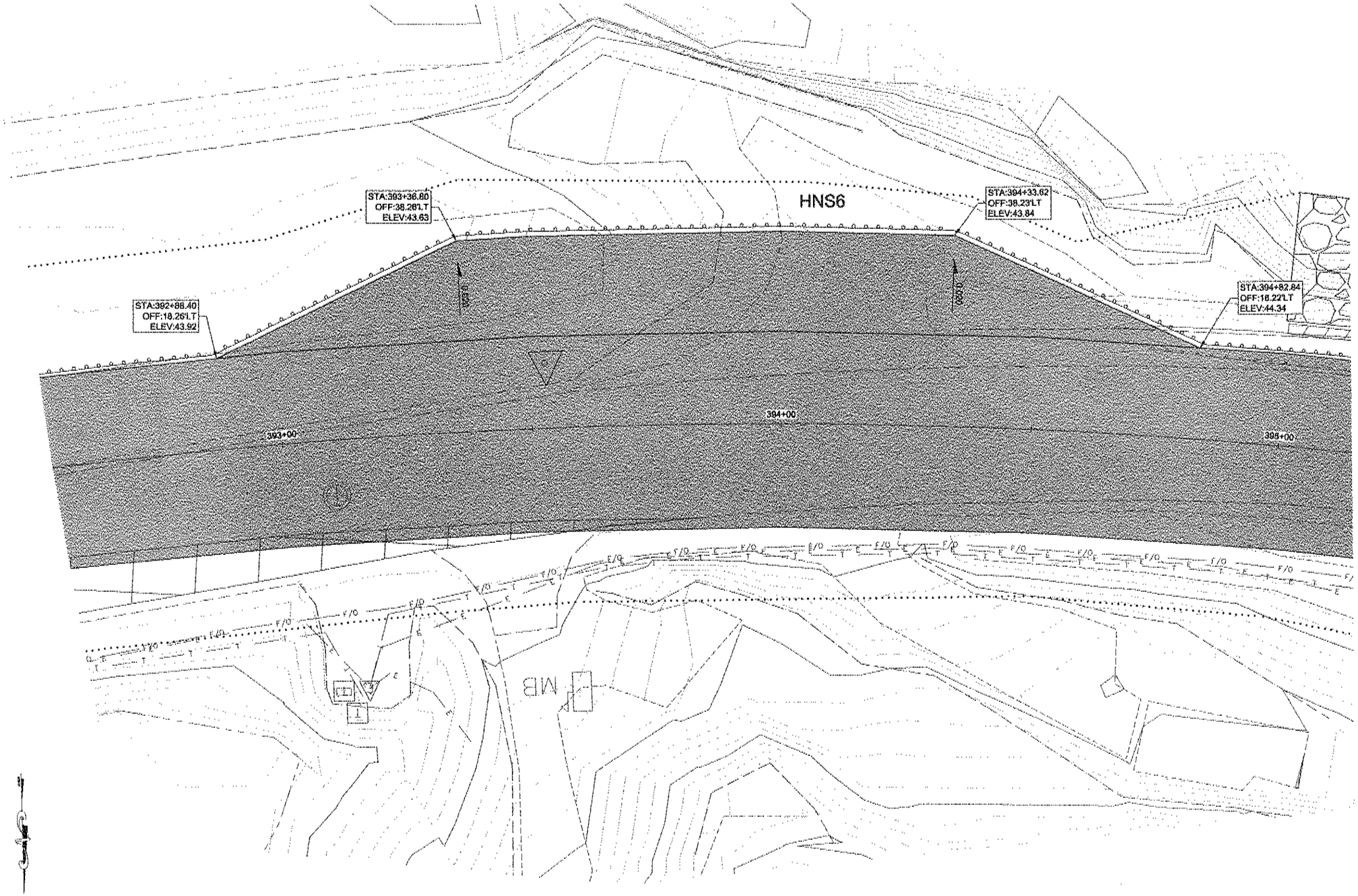
TAB: G5 Wednesday, May 15, 2013 3:32:17 PM

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

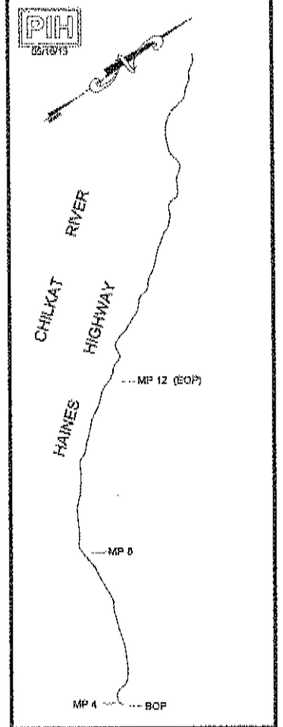


0 20' 40'

SCALE IN FEET

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

PIH 05/16/13



CHECKED BY: K. KILPATRICK

STATE OF ALASKA
49th
STEVEN K. NOBLE
CE-10051
REGISTERED PROFESSIONAL ENGINEER

DESIGNED BY: N. HOBBS

DRAWN BY: J. KEMP

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION

HAINES
HIGHWAY
MP 3.5 TO MP 12
PROJECT #68606

TURNOUT/RECREATION FACILITIES LAYOUT

PROJECT DESIGNATION

68606

STATE	YEAR
ALASKA	2013
SHEET NUMBER	TOTAL SHEETS
G5	93

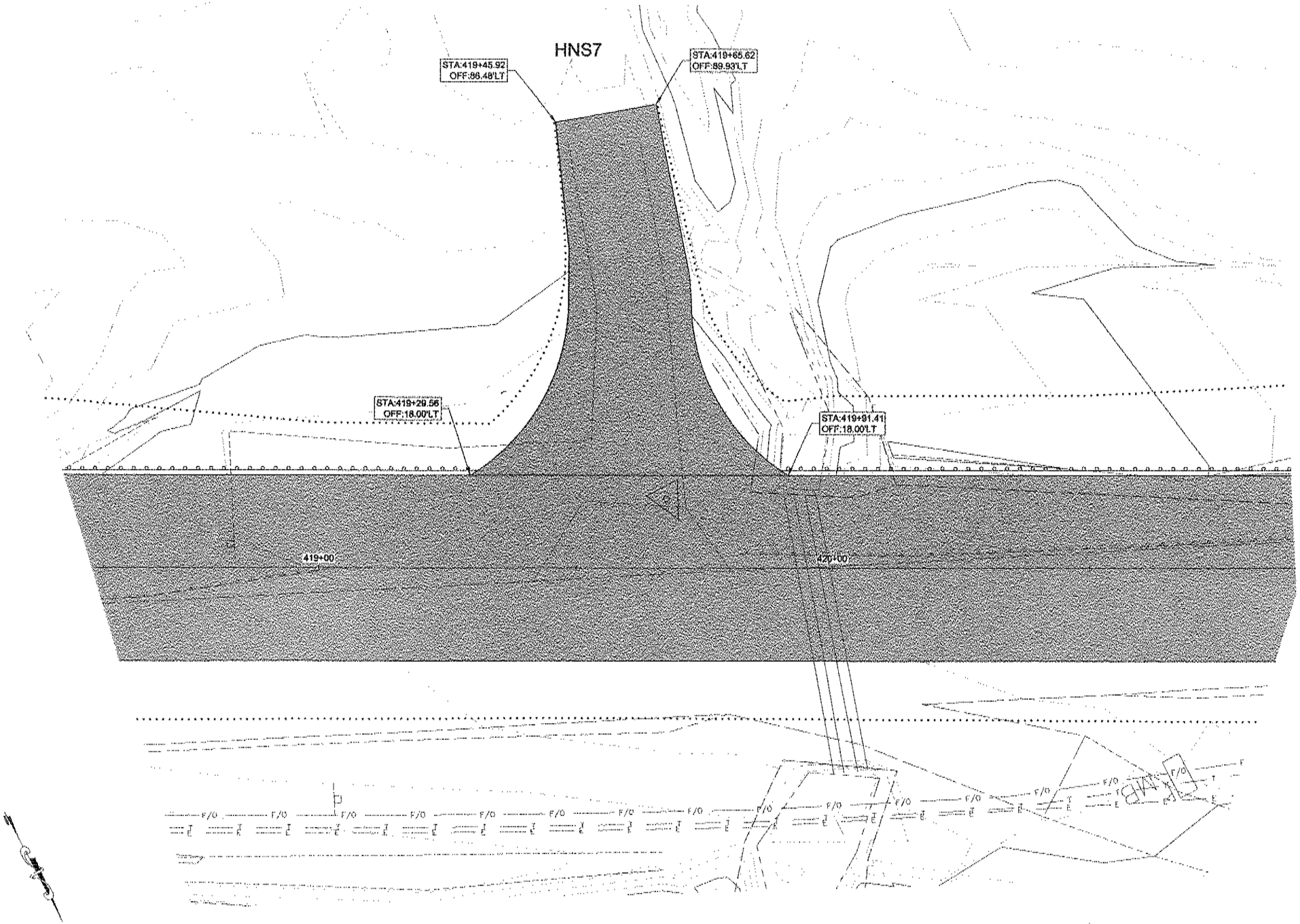
PATH:S:\LIBD\68119 HNS DSN950 DESIGN DRAWINGS\PLAN SET MP 3.5-12\G SHEETS\G1-G9.DWG
SIMS, CANDY
TAB: G6 Wednesday, May 15, 2013 9:32:28 PM

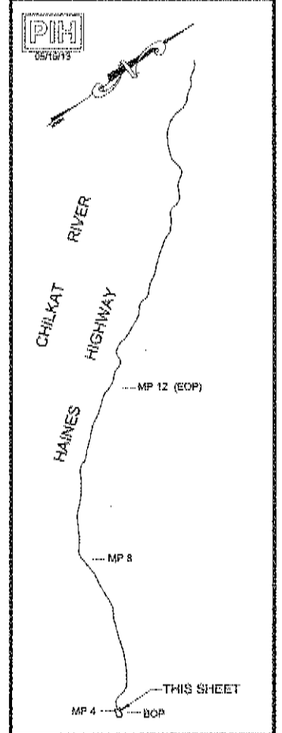
ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION





CHECKED BY: R. KILPATRICK

STATE OF ALASKA
49th
STEVEN K. NOBLE
CE-10551
REGISTERED PROFESSIONAL ENGINEER

DESIGNED BY: N. HOBBS

DRAWN BY: J. KEMP

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION

HAINES
HIGHWAY
MP 3.5 TO MP 12
PROJECT #68606

TURNOUT/RECREATION FACILITIES LAYOUT

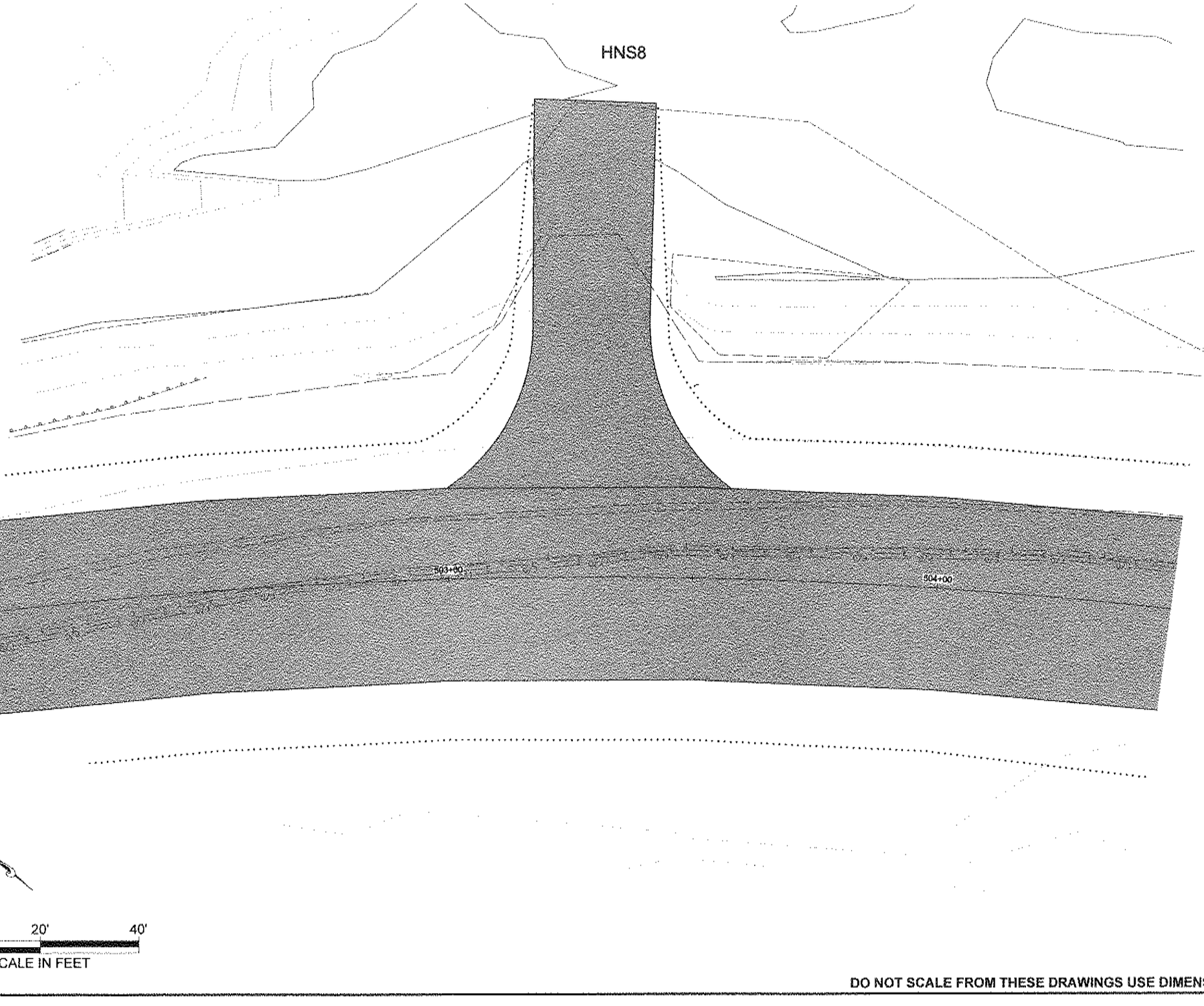
PROJECT DESIGNATION
68606

STATE	YEAR
ALASKA	**2013**

SHEET NUMBER	TOTAL SHEETS
G6	**93**

0 20' 40'
SCALE IN FEET

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS



0 20' 40'

SCALE IN FEET

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

PATH: S:\LIB\D59119 HNS DSN\060 DESIGN DRAWINGS\PLAN SET MP 3.5-12\G SHEETS\G1 G9.DWG

SIMS, CANDY

TAB: G7 Wednesday, May 15, 2013 3:32:39 PM

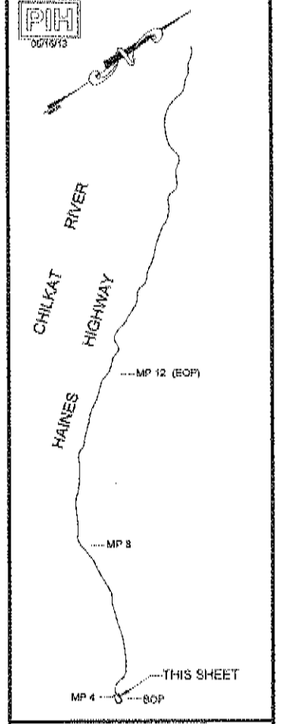
ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

PIH 05/15/13



CHECKED BY: K. KILPATRICK

STATE OF ALASKA 49th STEVEN K. NOBLE CE-10051 REGISTERED PROFESSIONAL ENGINEER

DESIGNED BY: N. HOBBS

DRAWN BY: J. KEMP

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION

HAINES
HIGHWAY
MP 3.5 TO MP 12
PROJECT #68606

TURNOUT/RECREATION FACILITIES LAYOUT

PROJECT DESIGNATION

68606

STATE	YEAR
ALASKA	2013
SHEET NUMBER	TOTAL SHEETS
G7	93

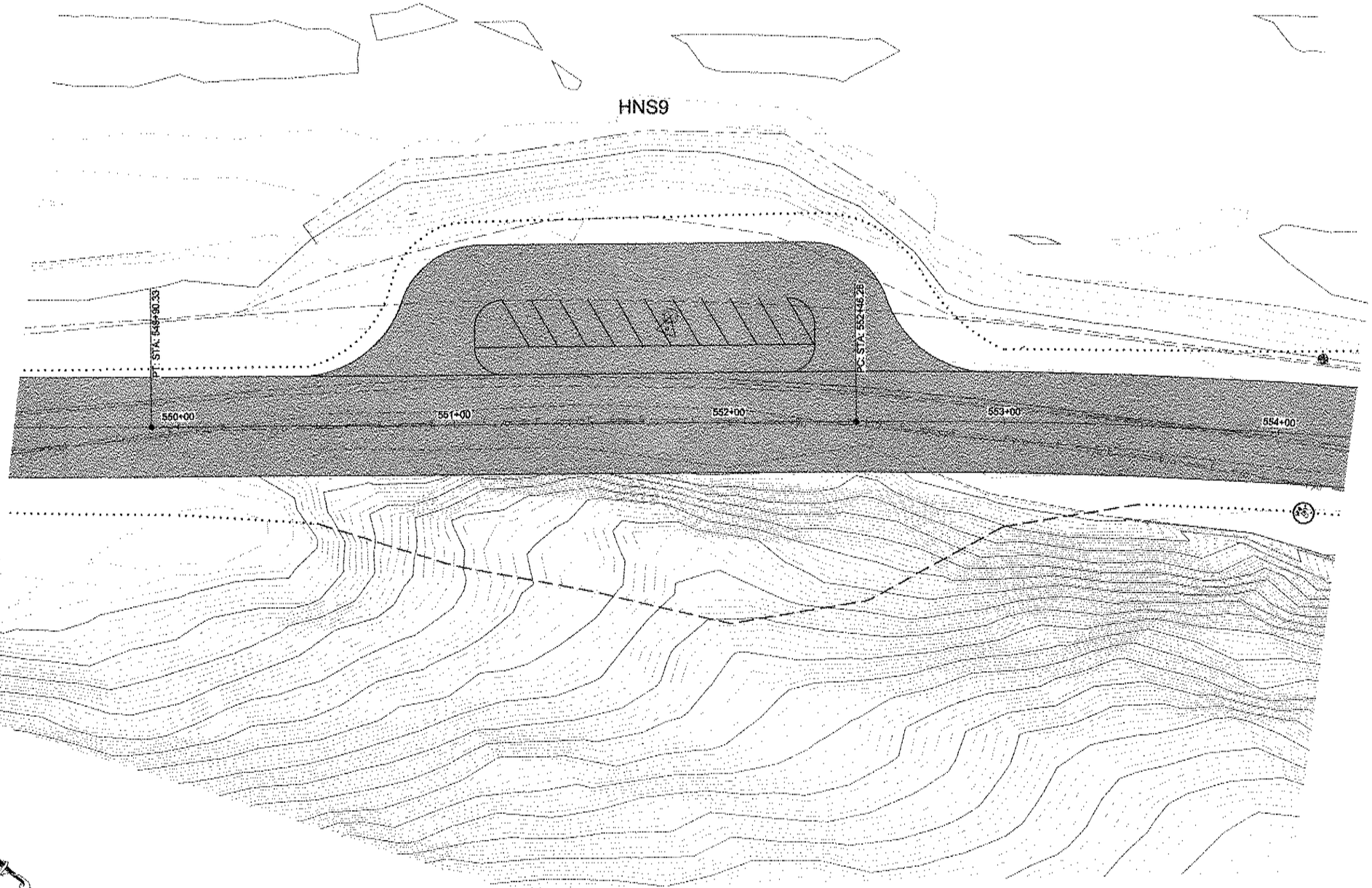
PATH: S:\LIB\D59119 HNS DSN\G8 DESIGN DRAWINGS\PLAN SET MP 3.5-12\G SHEETS\G1-G9.DWG
SIMS, CANDY
TAB: G8 Wednesday, May 16, 2013 3:32:49 PM

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

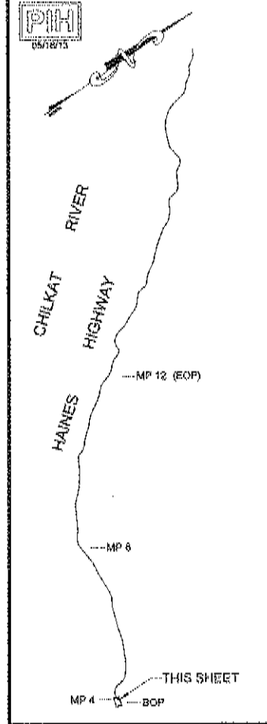


0 40' 80'

SCALE IN FEET

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

PIH
05/16/13



CHECKED BY: K. KILPATRICK

STATE OF ALASKA
49th
STEVEN K. NOBLE
CE-10051
REGISTERED PROFESSIONAL ENGINEER

DESIGNED BY: N. HOBBS

DRAWN BY: J. KEMP

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION

HAINES
HIGHWAY
MP 3.5 TO MP 12
PROJECT #68606

TURNOUT/RECREATION FACILITIES LAYOUT

PROJECT DESIGNATION
68606

STATE	YEAR
ALASKA	2013
SHEET NUMBER	TOTAL SHEETS
G8	93

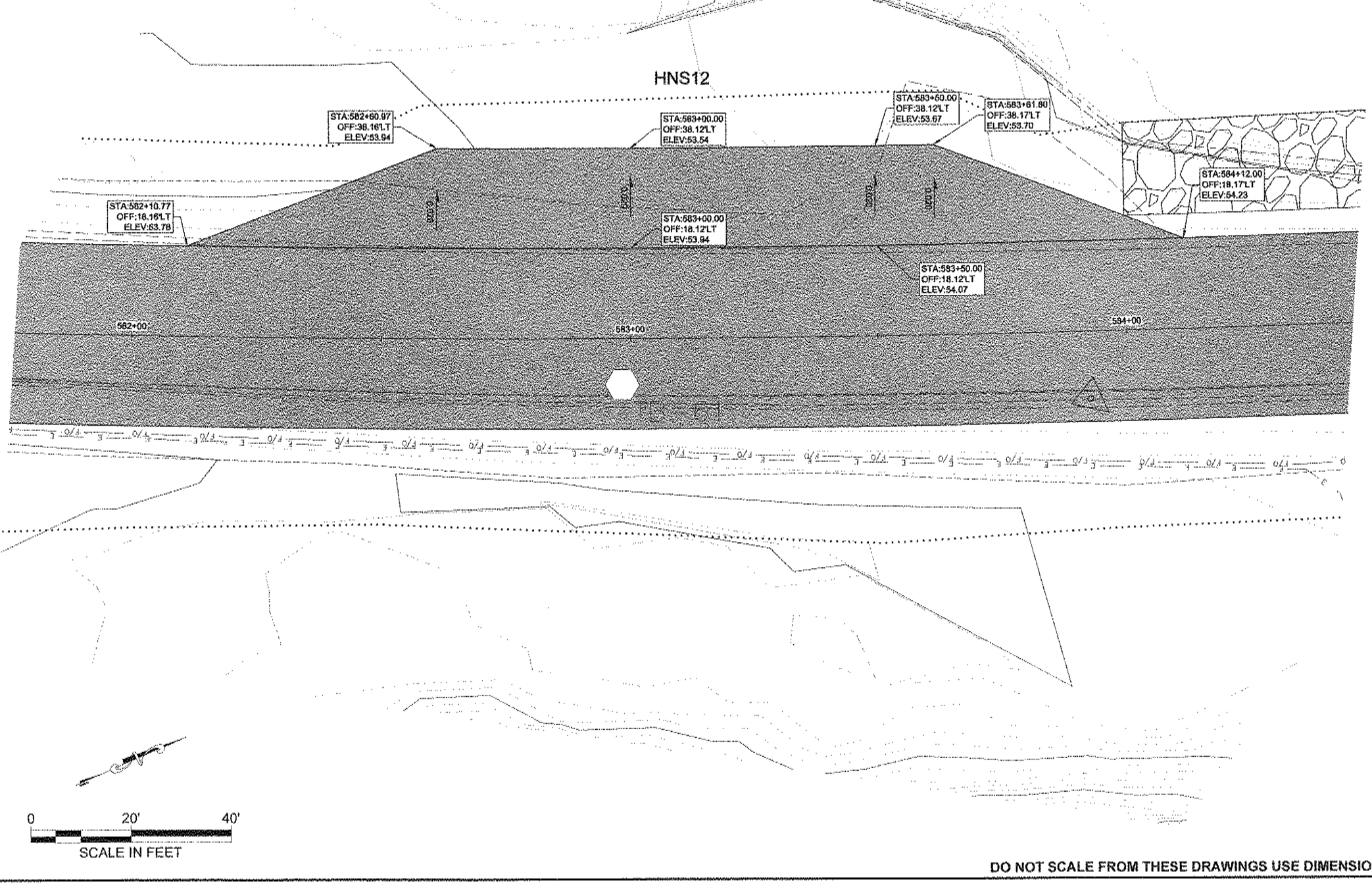
PATH:S:\M.IBID\58119 HNS DSN\G90 DESIGN DRAWINGS\PLAN SET MP 3.5-12\G SHEETS\G1-G9.DWG
SIMS, CANDY
TAB: G9 Wednesday, May 15, 2013 3:33:01 PM

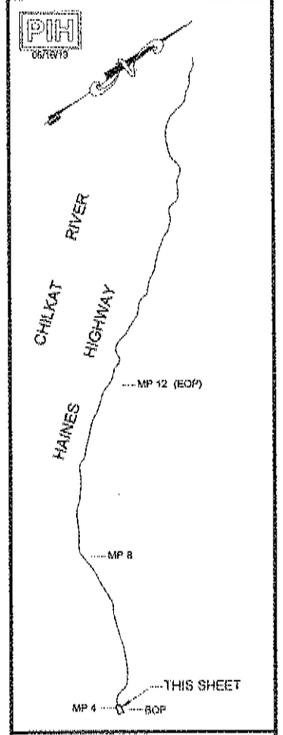
ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION





CHECKED BY: K. KILPATRICK

STATE OF ALASKA
49th
STEVEN K. NOBLE
CE-10051
REGISTERED PROFESSIONAL ENGINEER

DESIGNED BY: N. HOBBS

DRAWN BY: J. KEMP

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION

HAINES
HIGHWAY
MP 3.5 TO MP 12
PROJECT #68606

TURNOUT/RECREATION FACILITIES LAYOUT

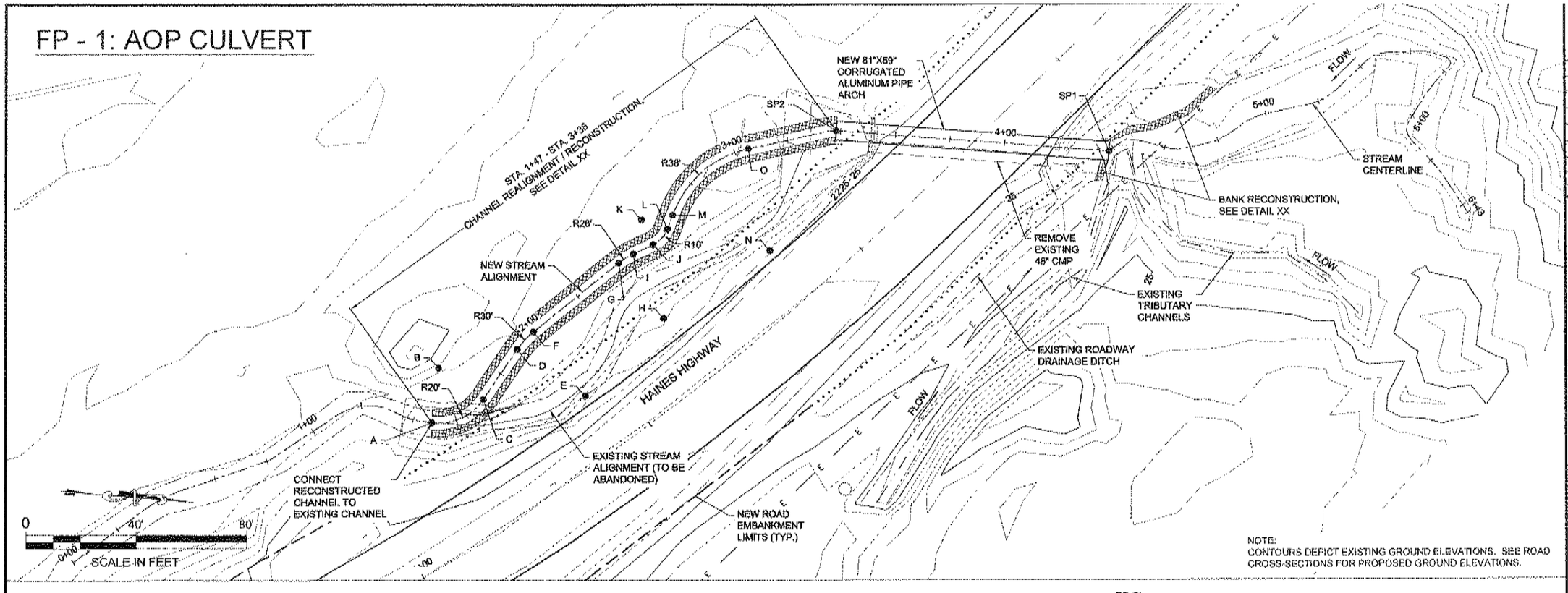
PROJECT DESIGNATION

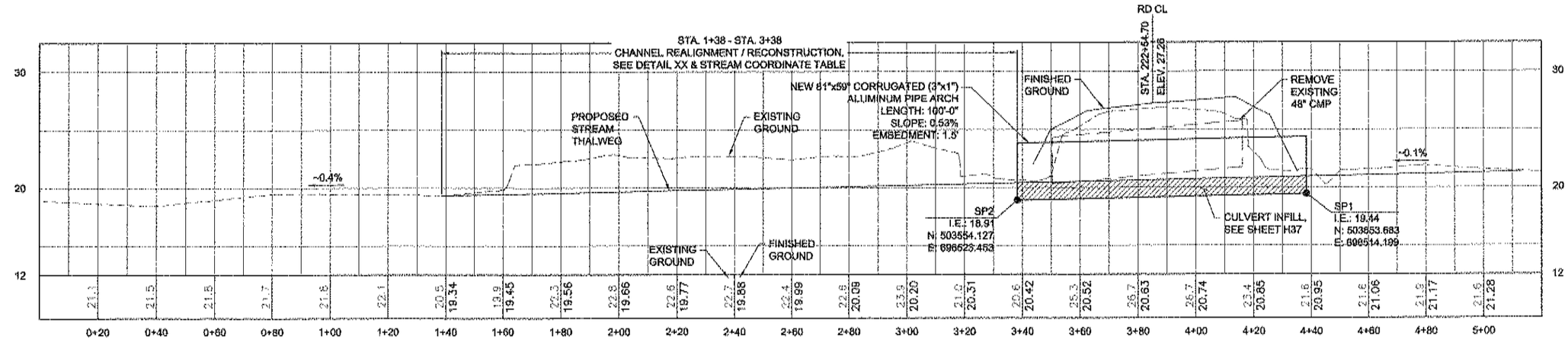
68606

STATE	YEAR
ALASKA	**2013**
SHEET NUMBER	TOTAL SHEETS
G9	**93**

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

FP - 1: AOP CULVERT





H&H Summary:

HYDROLOGIC & HYDRAULIC SUMMARY

EXCEEDANCE PROBABILITY	RECURRENCE INTERVAL (YEAR)	Q (CFS)	HIGH WATER ELEVATION (FT)
0.4x50%	Q2D2	17	22.1
50%	2	42	23.1
10	10	79	24.3
2%	50	114	25.8
1%	100	130	26.7
DRAINAGE AREA= 0.47 SQ MI			
ANTICIPATED ADDITIONAL BACKWATER = 0 FT			
ANTICIPATED ROADWAY OVERTOPPING AT 147 CFS			

STREAM COORDINATE TABLE

POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION	POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
A	XXXXXX.XXX	XXXXXX.XXX	YY.YY	BEGIN CHANNEL RECONSTRUCTION	I	XXXXXX.XXX	XXXXXX.XXX	YY.YY	PT
B				RADIUS PNT, 20.35' HORIZONTAL CURVE	J				PC
C				PT	K				RADIUS PNT, 7.87' HORIZONTAL CURVE
D				PC	L				PT
E				RADIUS PNT, 8.73' HORIZONTAL CURVE	M				PC
F				PT	N				RADIUS PNT, 38.00' HORIZONTAL CURVE
G				PC	O				PT
H				RADIUS PNT, 6.33' HORIZONTAL CURVE					

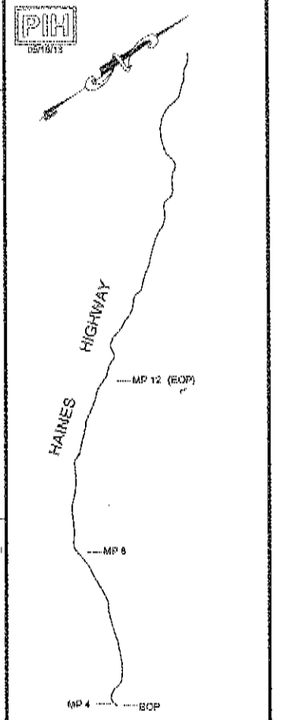
DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

PATH: Q:\2415911912\LIB\D59119 HNS DSN000 DESIGN DRAWINGS\PLAN SET MP 3.5-12\Q SHEETS\H1-H21.DWG
PRAHLER, SCOTT
TAB: H1 Monday, May 13, 2013 4:01:26 PM

ADDENDUM NUMBER
ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION



CHECKED BY: K. KILPATRICK

STATE OF ALASKA
49th
STEVEN K. NOBLE
CE-10051
REGISTERED PROFESSIONAL ENGINEER

DESIGNED BY: N. HOBBS
DRAWN BY: J. KEMP

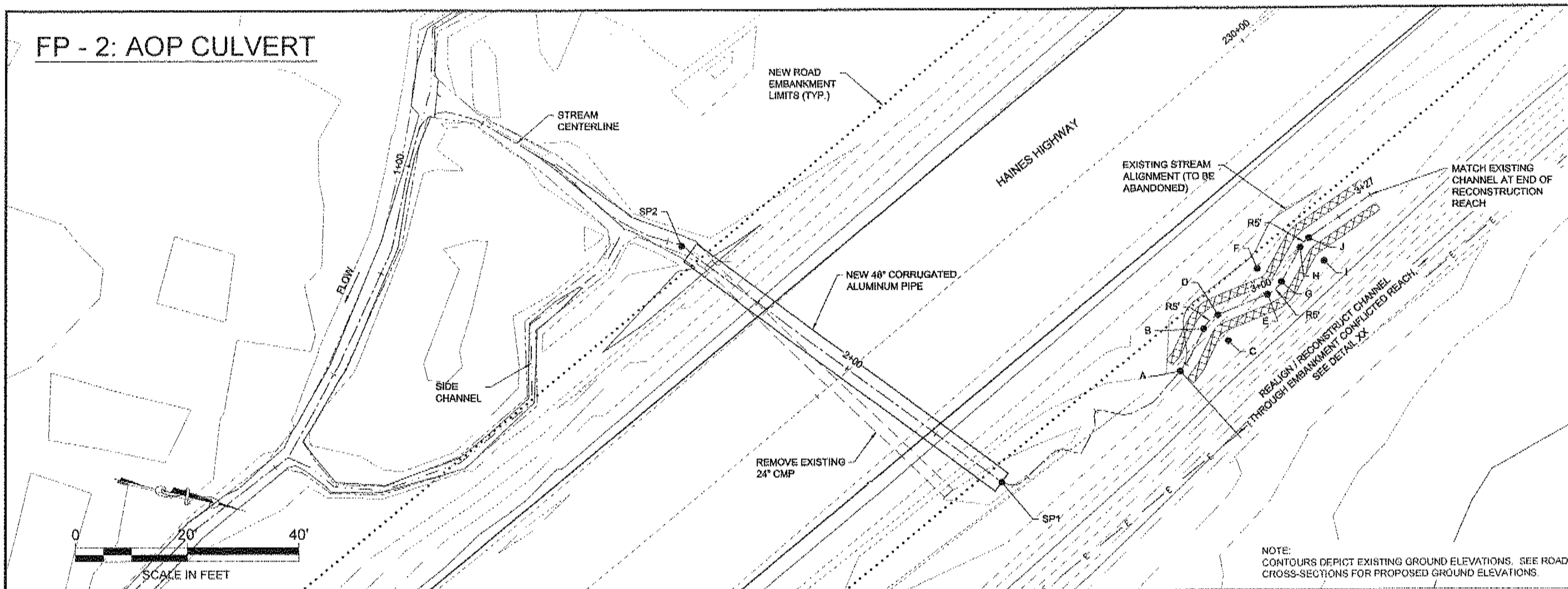
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SOUTHEAST REGION

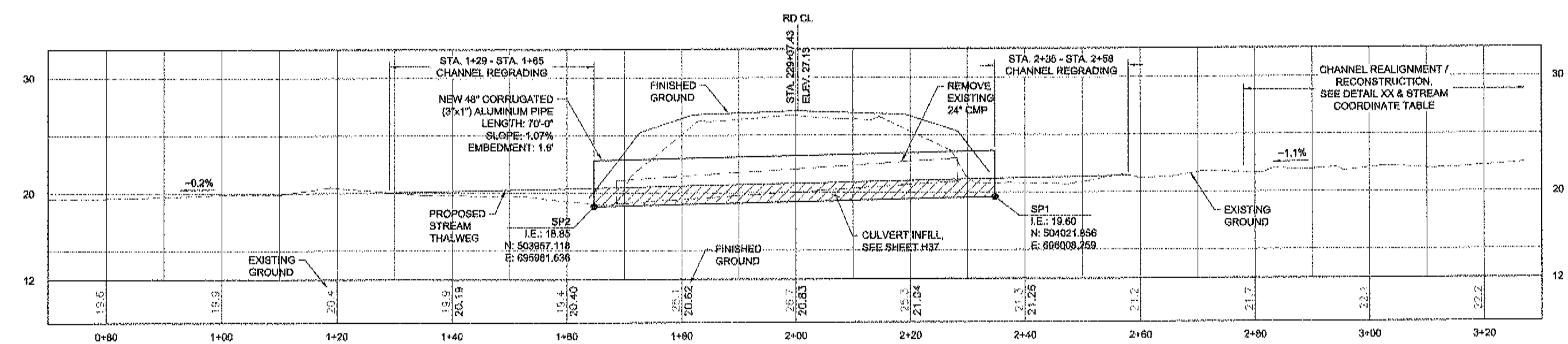
HAINES HIGHWAY
MP 3.5 TO MP 12
PROJECT #68606

LARGE CULVERT PLAN & PROFILE

PROJECT DESIGNATION	
68606	
STATE	YEAR
ALASKA	2013
SHEET NUMBER	TOTAL SHEETS
H1	93

FP - 2: AOP CULVERT





H&H Summary:

HYDROLOGIC & HYDRAULIC SUMMARY

EXCEEDANCE PROBABILITY	RECURRENCE INTERVAL (YEAR)	Q (CFS)	HIGH WATER ELEVATION (FT)
0.4x50%	Q2D2		
50%	2		
	10		
2%	50		
1%	100		
DRAINAGE AREA= SQ MI (AC)			
ANTICIPATED ADDITIONAL BACKWATER = FT			
ANTICIPATED ROADWAY OVERTOPPING AT CFS			

STREAM COORDINATE TABLE

POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION	POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
A	XXXXXX.XXX	XXXXXX.XXX	YY.YY	BEGIN CHANNEL RECONSTRUCTION	I	XXXXXX.XXX	XXXXXX.XXX	YY.YY	RADIUS PNT, XX' HORIZONTAL CURVE
B				PC	J				PT
C				RADIUS PNT, XX' HORIZONTAL CURVE	K				
D				PT	L				
E				PC	M				
F				RADIUS PNT, XX' HORIZONTAL CURVE	N				
G				PT	O				
H				PC					

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

PATH: O:\24\59119\124L\$\D59119 HNS DSN\050 DESIGN DRAWINGS\PLAN SET MP 3.5-12\Q SHEETS\H1-H21.DWG
PFAHLER, SCOTT
TAB: H2 Monday, May 13, 2013 4:01:55 PM

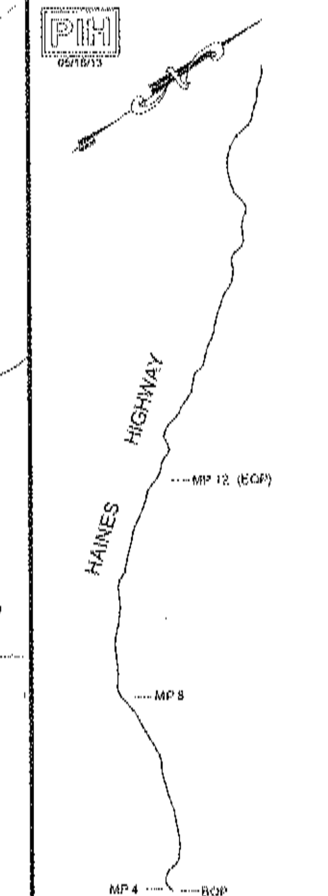
ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

PIH 05/15/13



CHECKED BY: K. KILPATRICK

STATE OF ALASKA 49th STEVEN K. NOBLE CE-10051 REGISTERED PROFESSIONAL ENGINEER

DESIGNED BY: N. HOBBS

DRAWN BY: J. KEMP

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SOUTHEAST REGION

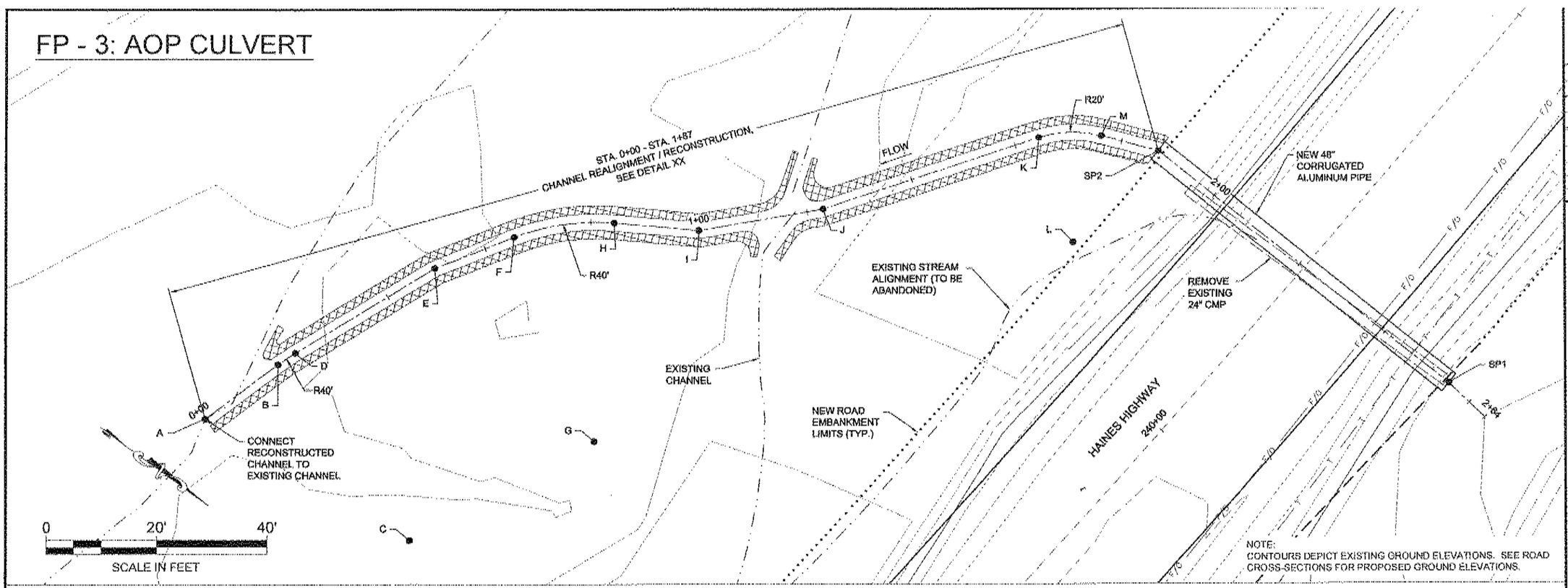
HAINES HIGHWAY
MP 3.5 TO MP 12
PROJECT #68606

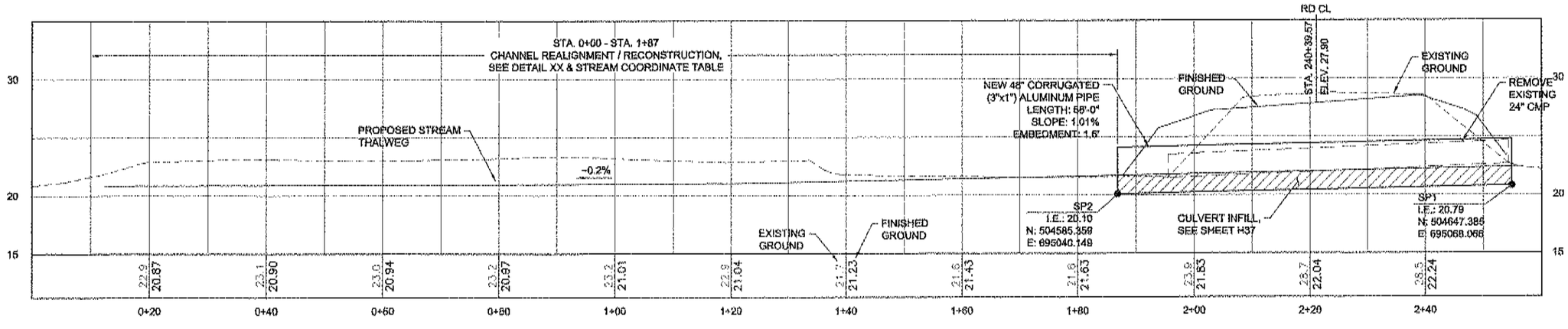
LARGE CULVERT PLAN & PROFILE

PROJECT DESIGNATION: 68606

STATE	YEAR
ALASKA	2013
SHEET NUMBER	TOTAL SHEETS
H2	93

FP - 3: AOP CULVERT





H&H Summary:

HYDROLOGIC & HYDRAULIC SUMMARY

EXCEEDANCE PROBABILITY	RECURRENCE INTERVAL (YEAR)	Q (CFS)	HIGH WATER ELEVATION (FT)
0.4x50%	Q202		
50%	2		
	10		
2%	50		
1%	100		
DRAINAGE AREA= SQ MI (AC)			
ANTICIPATED ADDITIONAL BACKWATER = FT			
ANTICIPATED ROADWAY OVERTOPPING AT CFS			

STREAM COORDINATE TABLE

POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION	POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
A	XXXXXX.XXX	XXXXXX.XXX	YY.YY	BEGIN CHANNEL RECONSTRUCTION	I	XXXXXX.XXX	XXXXXX.XXX	YY.YY	PI
B				PC	J				PI
C				RADIUS PNT, XX' HORIZONTAL CURVE	K				PC
D				PT	L				RADIUS PNT, XX' HORIZONTAL CURVE
E				PI	M				PT
F				PC	N				
G				RADIUS PNT, XX' HORIZONTAL CURVE	O				
H				PT					

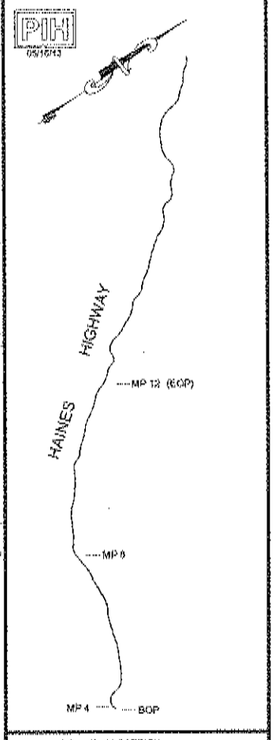
DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

PATH: G:\24\59119\12\LIB\DS0119 HNS DSN000 DESIGN DRAWINGS\PLAN SET MP 3.5-12\O SHEETS\H1-H21.DWG
PFAHLER, SCOTT
TAB: H3 Monday, May 13, 2013 4:02:23 PM

ADDENDUM NUMBER
ATTACHMENT NUMBER

RECORD OF REVISIONS

No	DATE	DESCRIPTION



CHECKED BY: K. KILPATRICK

STATE OF ALASKA
STEVEN K. NOLL
CE-10051
REGISTERED PROFESSIONAL ENGINEER

DESIGNED BY: N. HOBBS
DRAWN BY: J. KEMP

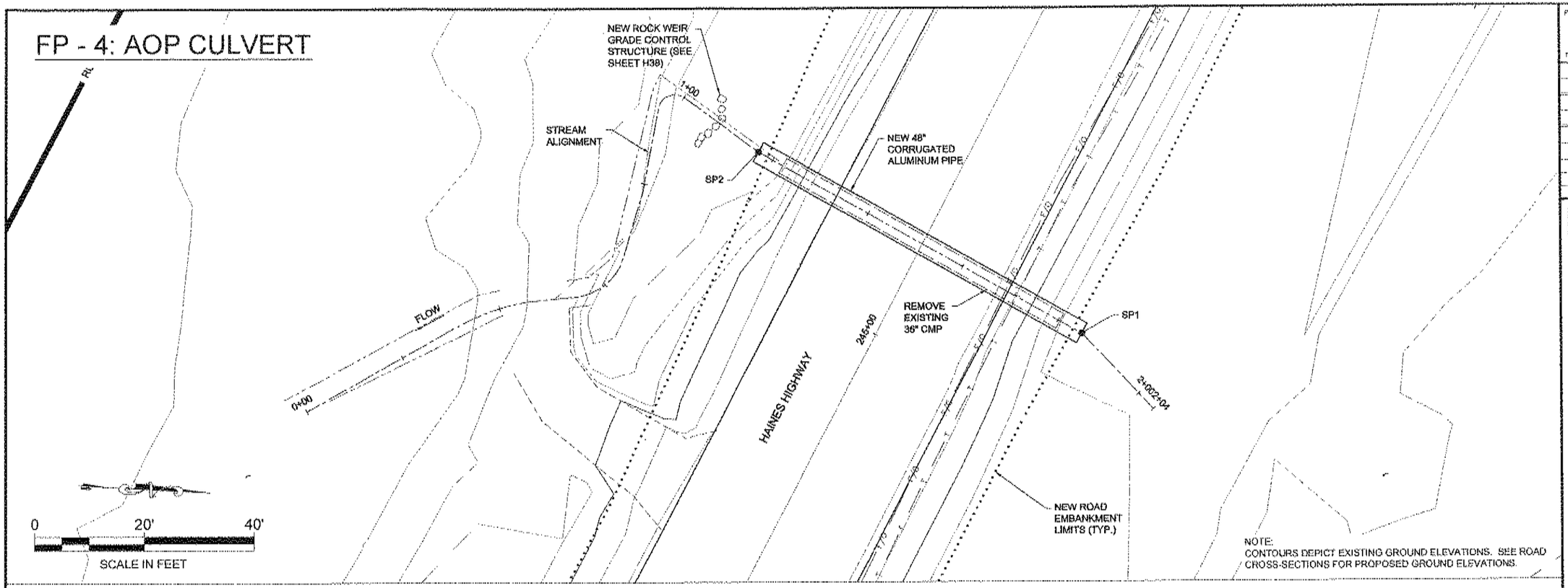
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION

HAINES
HIGHWAY
MP 3.5 TO MP 12
PROJECT #68606

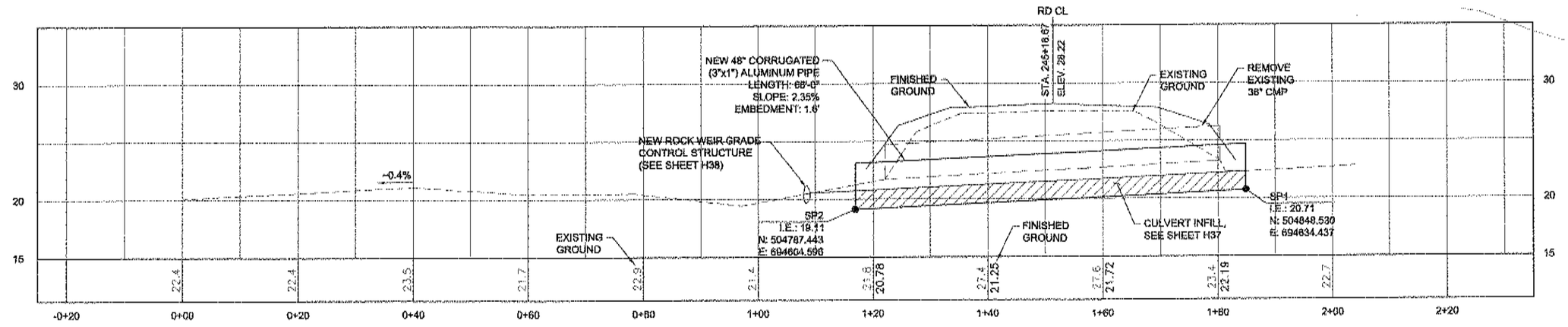
LARGE CULVERT PLAN & PROFILE

PROJECT DESIGNATION	
68606	
STATE	YEAR
ALASKA	2013
SHEET NUMBER	TOTAL SHEETS
H3	93

FP - 4: AOP CULVERT



NOTE:
CONTOURS DEPICT EXISTING GROUND ELEVATIONS. SEE ROAD CROSS-SECTIONS FOR PROPOSED GROUND ELEVATIONS.



H&H Summary:

HYDROLOGIC & HYDRAULIC SUMMARY			
EXCEEDANCE PROBABILITY	RECURRENCE INTERVAL	Q	HIGH WATER ELEVATION
	(YEAR)	(CFS)	(FT)
0.4x50%	Q2D2		
50%	2		
	10		
2%	50		
1%	100		
DRAINAGE AREA= SQ MI (AC)			
ANTICIPATED ADDITIONAL BACKWATER = FT			
ANTICIPATED ROADWAY OVERTOPPING AT CFS			

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

PATH: Q:\24\59119\12\LIB\59119 HNS GEN050 DESIGN DRAWINGS\PLAN SET MP3.5-12\G SHEETS\H1-H21.DWG
PFAHLER, SCOTT
TAB: H4 Monday, May 13, 2013 4:02:49 PM

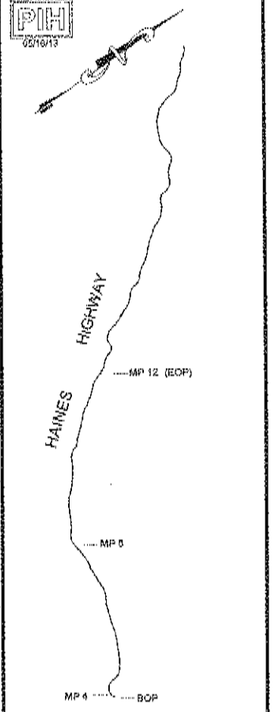
ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

PIH 05/10/13



CHECKED BY: K. KILPATRICK

STATE OF ALASKA
49th
STEVEN K. NOBLE
CE-10051
REGISTERED PROFESSIONAL ENGINEER

DESIGNED BY: N. HOBBS

DRAWN BY: J. KEMP

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SOUTHEAST REGION

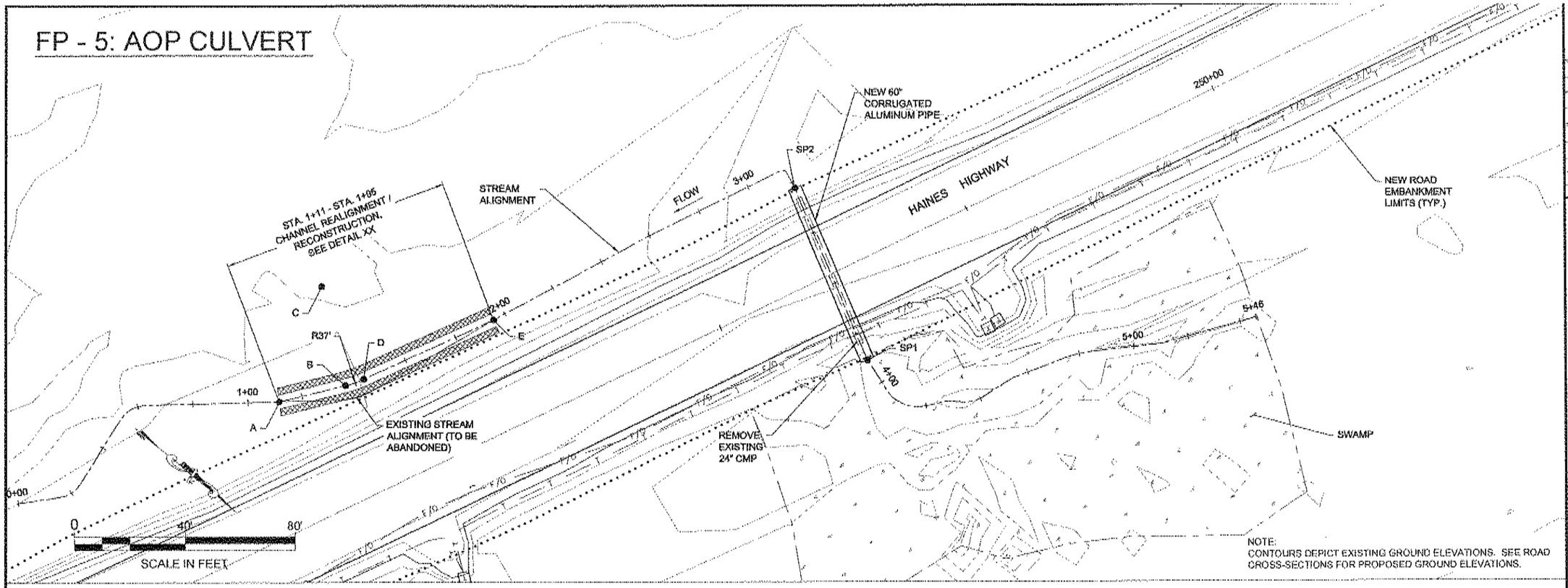
HAINES HIGHWAY
MP 3.5 TO MP 12
PROJECT #68606

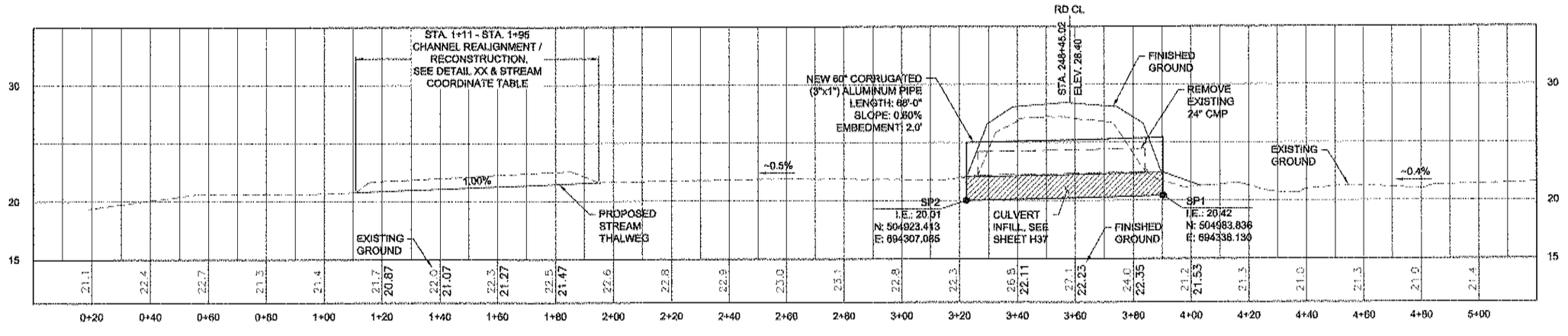
LARGE CULVERT PLAN & PROFILE

PROJECT DESIGNATION
68606

STATE	YEAR
ALASKA	2013
SHEET NUMBER	TOTAL SHEETS
H4	93

FP - 5: AOP CULVERT





H&H Summary:

HYDROLOGIC & HYDRAULIC SUMMARY			
EXCEEDANCE PROBABILITY	RECURRENCE INTERVAL (YEAR)	Q (CFS)	HIGH WATER ELEVATION (FT)
0.4x50%	Q2D2		
50%	2		
	10		
2%	50		
1%	100		
DRAINAGE AREA= 50 MI (AC)			
ANTICIPATED ADDITIONAL BACKWATER = FT			
ANTICIPATED ROADWAY OVERTOPPING AT CFS			

STREAM COORDINATE TABLE									
POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION	POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
A	XXXXXX.XXX	XXXXXX.XXX	YY.YY	BEGIN CHANNEL RECONSTRUCTION	I	XXXXXX.XXX	XXXXXX.XXX	YY.YY	
B				PC	J				
C				RADIUS PNT, X' HORIZONTAL CURVE	K				
D				PT	L				
E				END CHANNEL RECONSTRUCTION	M				
F					N				
G					O				
H									

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

PATH: Q:\2013\9119\12_IB\09119 HNS 05N060 I)\DESIGN DRAWINGS\PLAN SET MP 3.5-12\Q SHEETS\H1-H21.DWG
PFAHLER, SCOTT
TAB: H5 Monday, May 13, 2013 4:03:10 PM

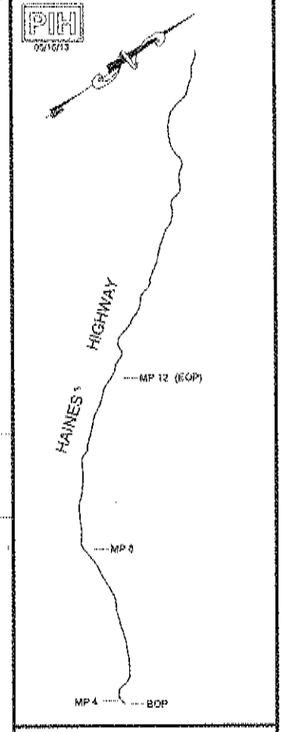
ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

PIH 05/10/13



CHECKED BY: K. KILPATRICK

STATE OF ALASKA
STEVEN K. NOBLE
CE-10051
REGISTERED PROFESSIONAL ENGINEER

DESIGNED BY: N. HOBBS
DRAWN BY: J. KEMP

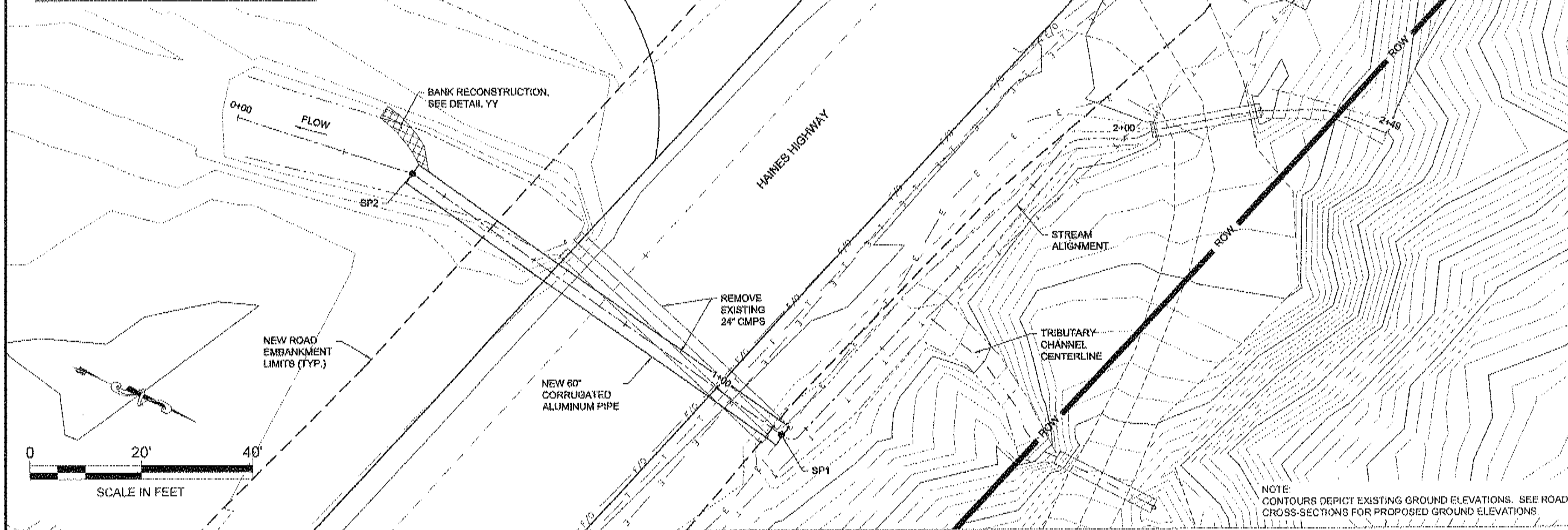
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SOUTHEAST REGION

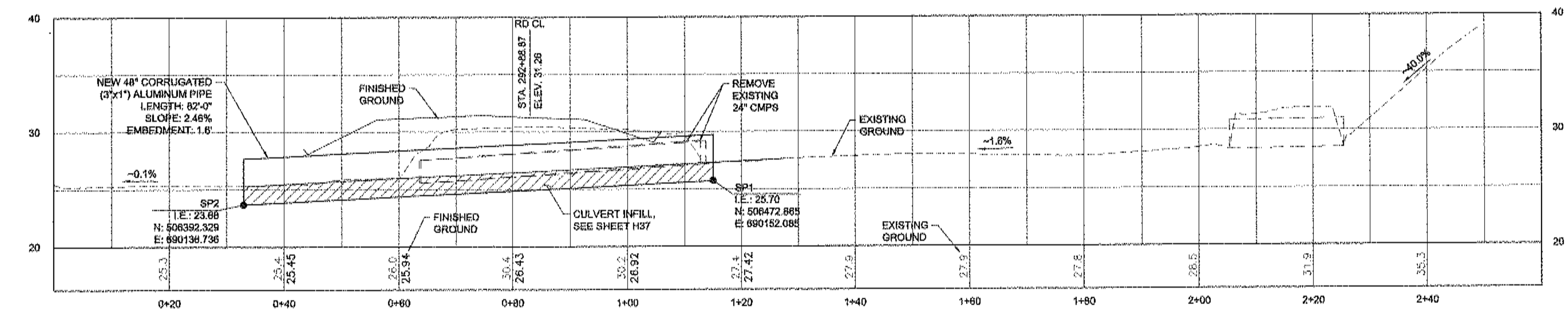
HAINES HIGHWAY
MP 3.5 TO MP 12
PROJECT #68606

LARGE CULVERT PLAN & PROFILE

PROJECT DESIGNATION	
68606	
STATE	YEAR
ALASKA	2013
SHEET NUMBER	TOTAL SHEETS
H5	93

FP - 6: AOP CULVERT





H&H Summary:

HYDROLOGIC & HYDRAULIC SUMMARY			
EXCEEDANCE PROBABILITY	RECURRENCE INTERVAL	Q	HIGH WATER ELEVATION
	(YEAR)	(CFS)	(FT)
0.4x50%	Q2D2		
50%	2		
	10		
2%	50		
1%	100		
DRAINAGE AREA= SQ MI (AC)			
ANTICIPATED ADDITIONAL BACKWATER = FT			
ANTICIPATED ROADWAY OVERTOPPING AT CFS			

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

PATH: G:\34\59119\12\L\B\059119 HNG DSM\050 DESIGN DRAWINGS\PLAN SET_MP 3.5-12\G SHEETS\H1-H21.DWG

PFAHLER, SCOTT

TAB: H6 Monday, May 13, 2013 4:03:33 PM

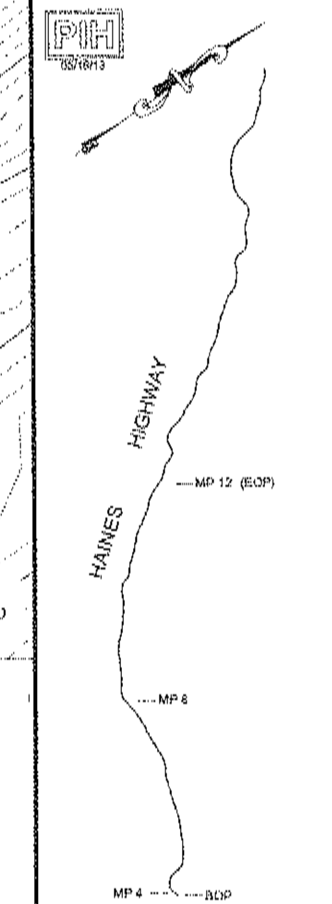
ADDENDUM NUMBER

ATTACHMENT NUMBER

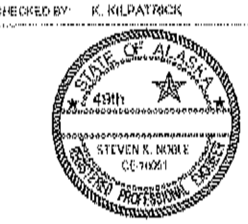
RECORD OF REVISIONS

No.	DATE	DESCRIPTION

PIH 05/16/13



CHECKED BY: K. KILPATRICK



DESIGNED BY: N. HOBBS

DRAWN BY: J. KEMP

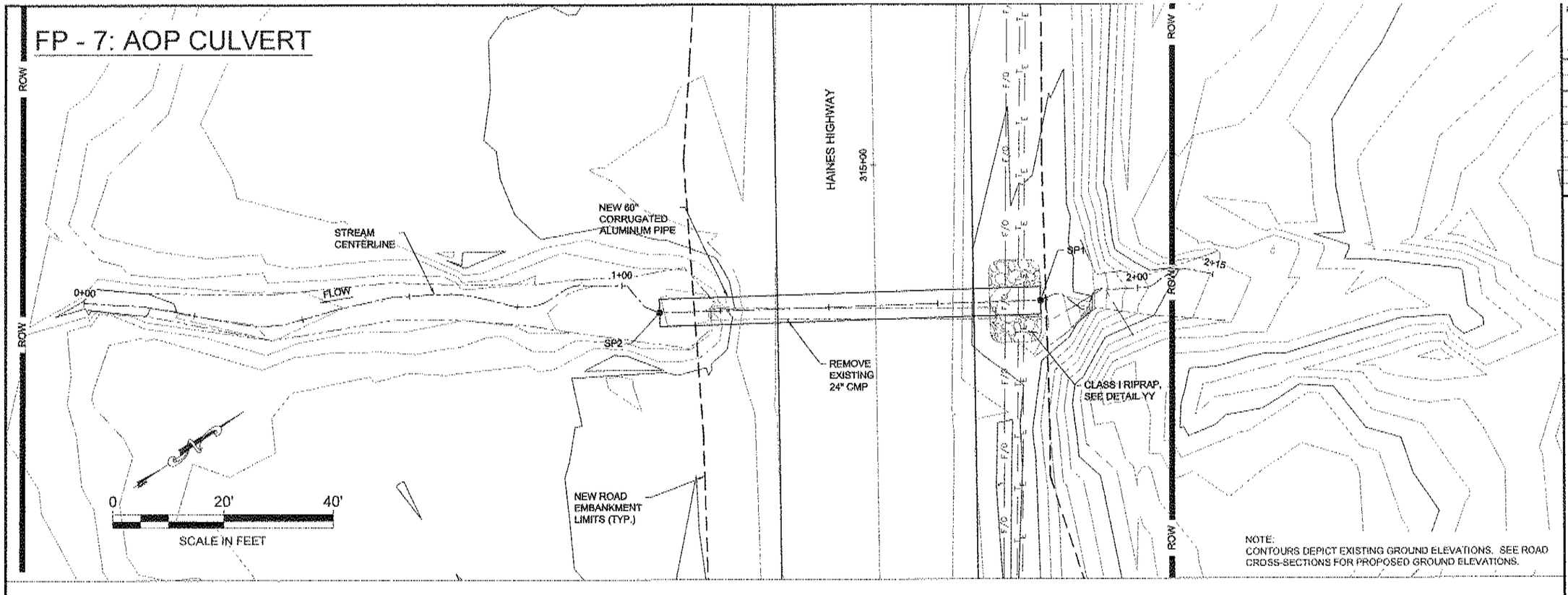
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SOUTHEAST REGION

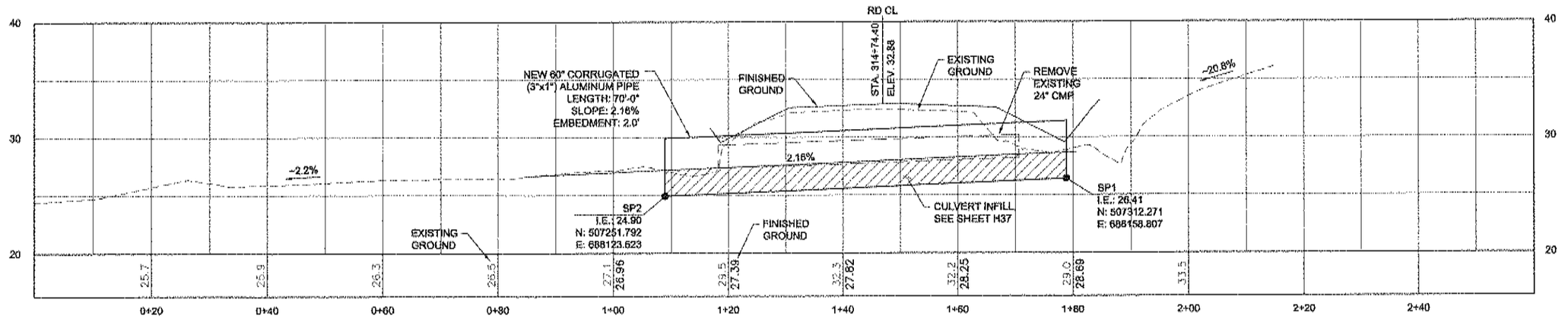
HAINES HIGHWAY
MP 3.5 TO MP 12
PROJECT #68606

LARGE CULVERT PLAN & PROFILE

PROJECT DESIGNATION	
68606	
STATE	YEAR
ALASKA	2013
SHEET NUMBER	TOTAL SHEETS
H6	93

FP - 7: AOP CULVERT





H&H Summary:

HYDROLOGIC & HYDRAULIC SUMMARY			
EXCEEDANCE PROBABILITY	RECURRENCE INTERVAL (YEAR)	Q (CFS)	HIGH WATER ELEVATION (FT)
0.4x50%	Q2D2		
50%	2		
	10		
2%	50		
1%	100		
DRAINAGE AREA= SQ MI (AC)			
ANTICIPATED ADDITIONAL BACKWATER = FT			
ANTICIPATED ROADWAY OVERTOPPING AT CFS			

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

PATH: Q:\2415\1191\2L\BID59119 HNS DSN080 DESIGN DRAWINGS\PLAN SET MP 3.5-12\Q SHEETS\H1-H21.DWG
PFAHLER, SCOTT
TAR: NY Monday, May 13, 2013 4:03:57 PM

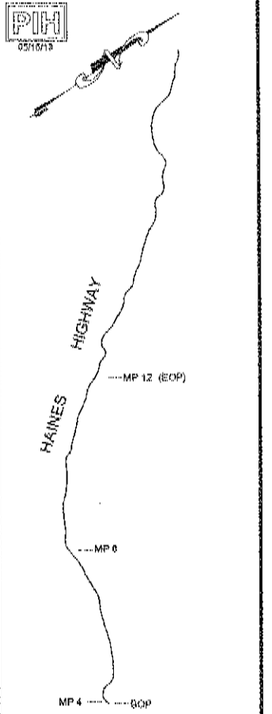
ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No	DATE	DESCRIPTION

PIH 05/10/13



CHECKED BY: K. KILPATRICK

STATE OF ALASKA
49th
STEVEN K. NOBLE
CE-10051
REGISTERED PROFESSIONAL ENGINEER

DESIGNED BY: N. HOBBS

DRAWN BY: J. KEMP

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SOUTHEAST REGION

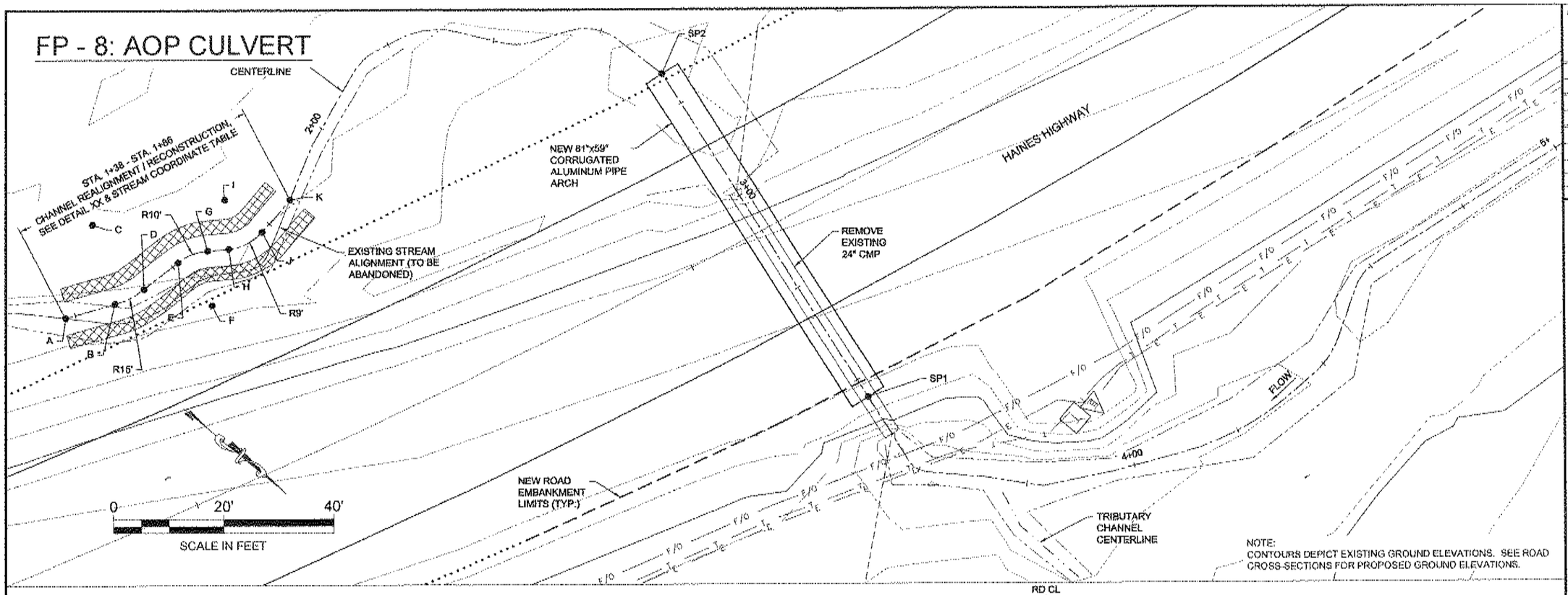
HAINES HIGHWAY
MP 3.5 TO MP 12
PROJECT #68606

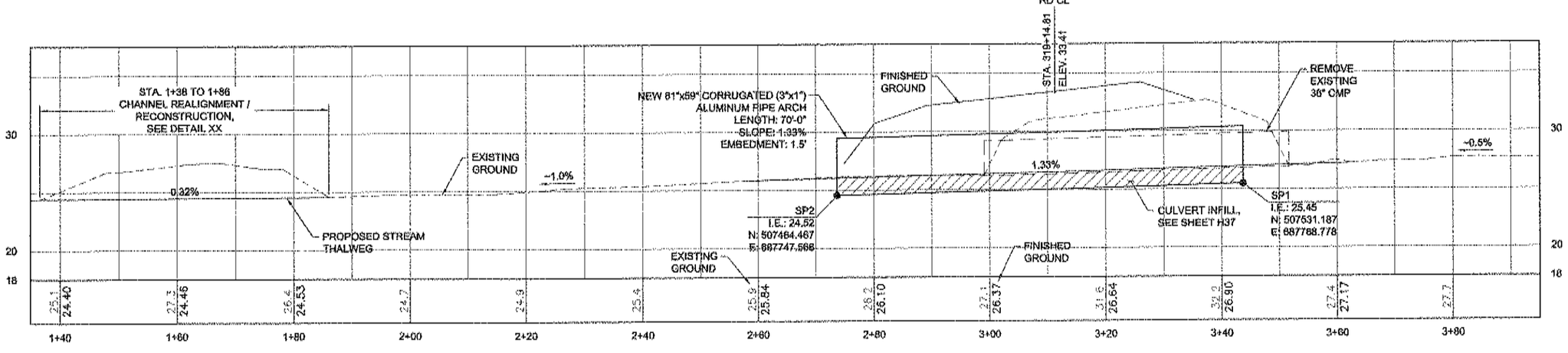
LARGE CULVERT PLAN & PROFILE

PROJECT DESIGNATION
68606

STATE	YEAR
ALASKA	2013
SHEET NUMBER	TOTAL SHEETS
H7	93

FP - 8: AOP CULVERT





H&H Summary:

HYDROLOGIC & HYDRAULIC SUMMARY

EXCEEDANCE PROBABILITY	RECURRENCE INTERVAL	Q	HIGH WATER ELEVATION
	(YEAR)	(CFS)	(FT)
0.4x50%	Q2D2	20	28.3
50%	2	50	29.7
	10	93	30.7
2%	50	135	32.2
1%	100	154	33.4
DRAINAGE AREA= 0.60 SQ MI			
ANTICIPATED ADDITIONAL BACKWATER = 0.5 FT			
ANTICIPATED ROADWAY OVERTOPPING AT 166 CFS			

STREAM COORDINATE TABLE

POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION	POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
A	XXXXXX.XXX	XXXXXX.XXX	YY.YY	BEGIN CHANNEL RECONSTRUCTION	I	XXXXXX.XXX	XXXXXX.XXX	YY.YY	RADIUS PNT, 8.73' HORIZONTAL CURVE
B				PC	J				PT
C				RADIUS PNT, 8.73' HORIZONTAL CURVE	K				END CHANNEL RECONSTRUCTION
D				PT	L				
E				PC	M				
F				RADIUS PNT, 8.73' HORIZONTAL CURVE	N				
G				PT	O				
H				PC					

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

PATH: Q:\2415\11\12\LIB\D9119 HNS 03N050 DESIGN DRAWINGS\PLAN SET MP 3.5-12\Q SHEETS\H-H21.DWG
PFAHLER, SCOTT
TAB: H8 Monday, May 13, 2013 4:04:21 PM

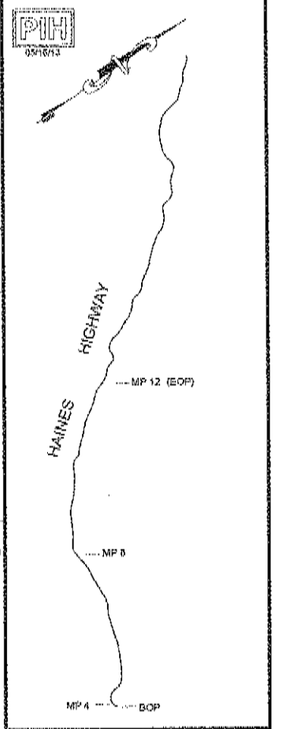
ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

PIH 05/16/13



CHECKED BY: K. KILPATRICK

STATE OF ALASKA
STEVEN K. NOBLE
CE-10051
REGISTERED PROFESSIONAL ENGINEER

DESIGNED BY: N. HOBBS

DRAWN BY: J. KEMP

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SOUTHEAST REGION

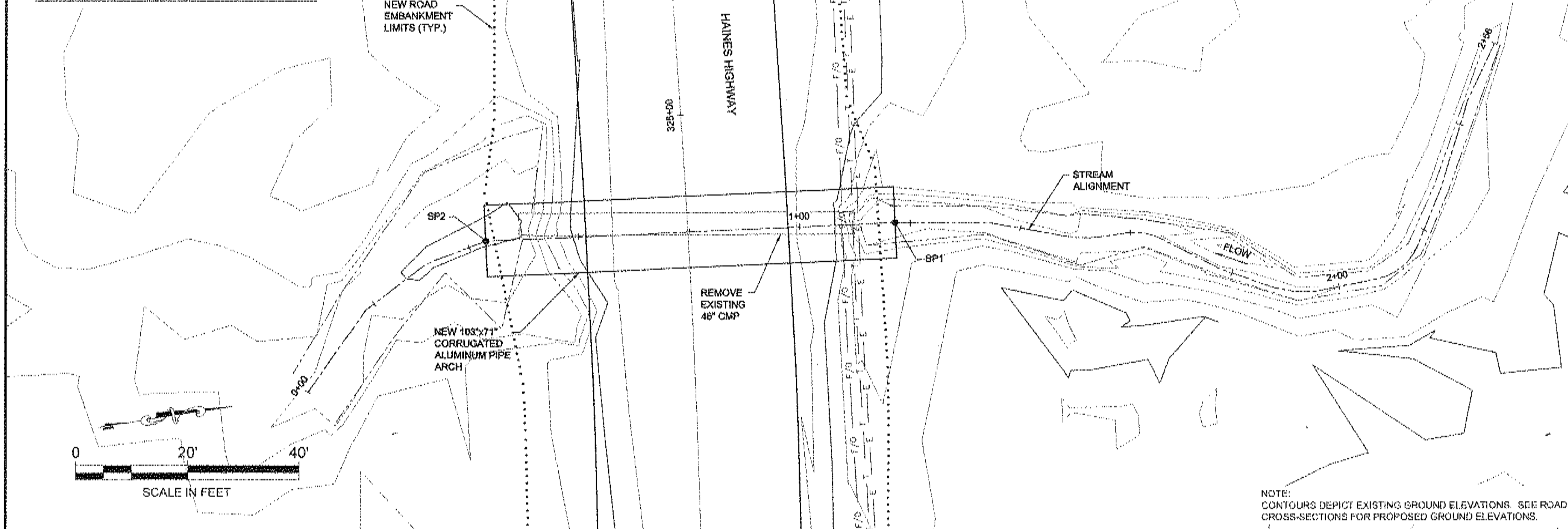
HAINES HIGHWAY
MP 3.5 TO MP 12
PROJECT #68606

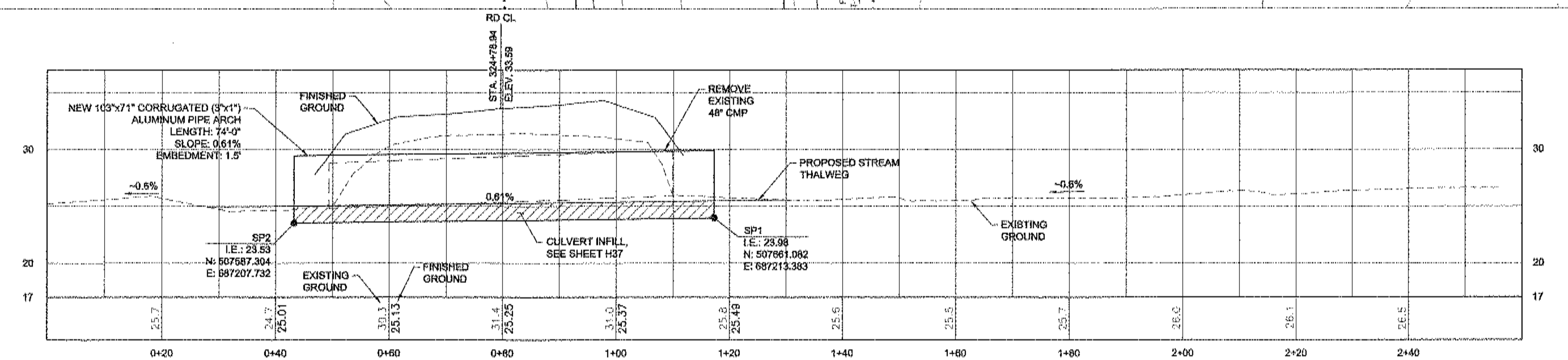
LARGE CULVERT PLAN & PROFILE

PROJECT DESIGNATION
68606

STATE	YEAR
ALASKA	2013
SHEET NUMBER	TOTAL SHEETS
H8	93

FP - 9: AOP CULVERT





H&H Summary:

HYDROLOGIC & HYDRAULIC SUMMARY			
EXCEEDANCE PROBABILITY	RECURRENCE INTERVAL	Q	HIGH WATER ELEVATION
	(YEAR)	(CFS)	(FT)
0.4x50%	Q2D2	37	27.2
50%	2	92	28.23
	10	169	29.7
2%	50	248	31.4
1%	100	280	31.8
DRAINAGE AREA= 1.23 SQ MI			
ANTICIPATED ADDITIONAL BACKWATER ≈ 2 FT			
ANTICIPATED ROADWAY OVERTOPPING AT 372 CFS			

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

PATH: DESIGN DRAWINGS\PLAN SET MP 3.5-12\Q SHEETS\H1-H21.DWG
PFAHLER, SCOTT
TAB: H9 Monday, May 13, 2013 4:04:43 PM

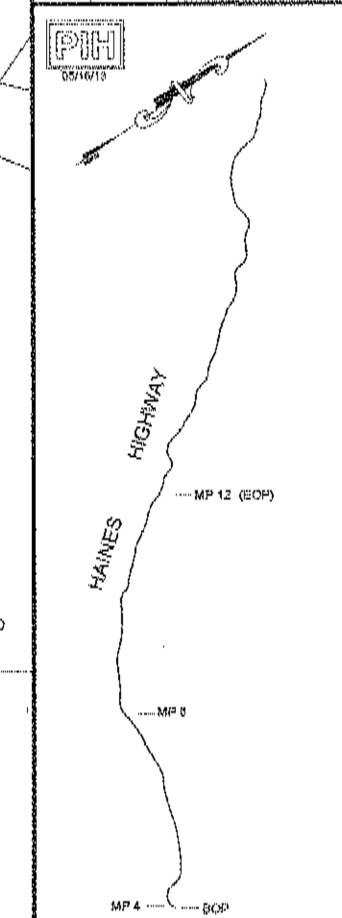
ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

PIH
05/10/13



CHECKED BY: K. KILPATRICK

STATE OF ALASKA
49th
STEVEN K. NOHLE
CE-10051
REGISTERED PROFESSIONAL ENGINEER

DESIGNED BY: N. HOBBS
DRAWN BY: J. KEMP

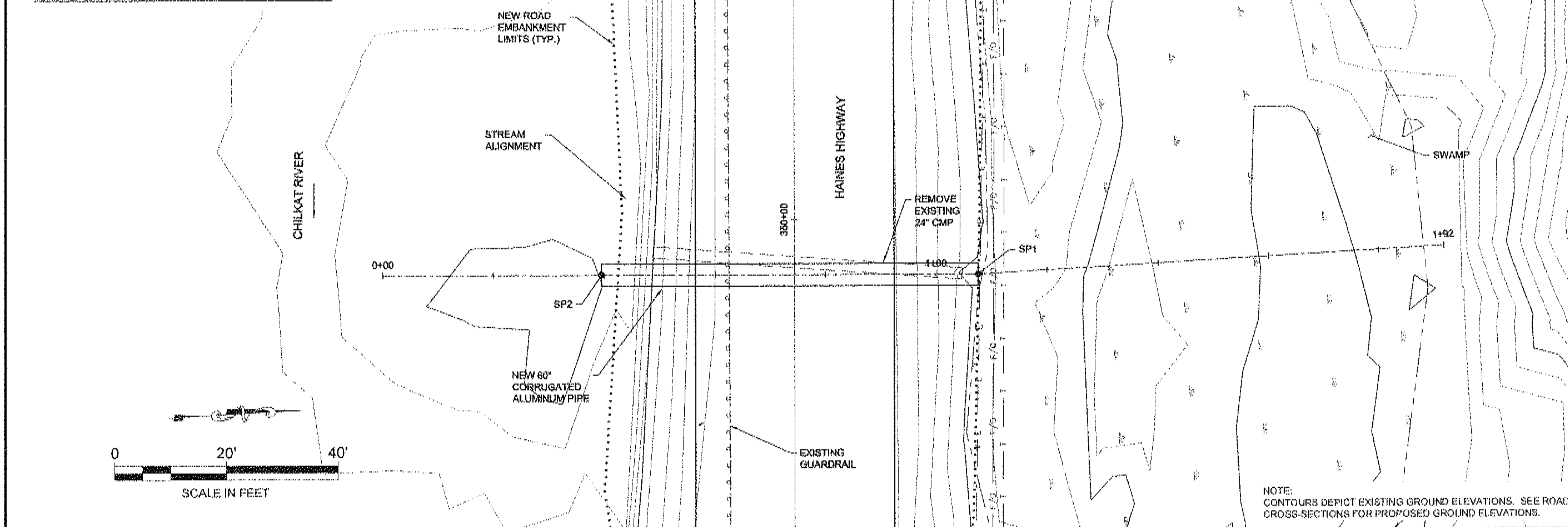
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SOUTHEAST REGION

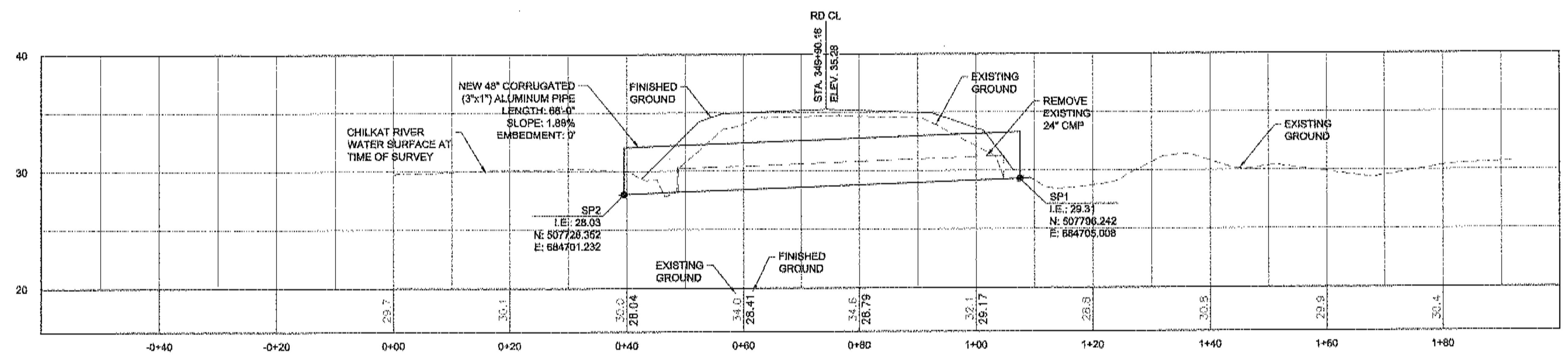
HAINES HIGHWAY
MP 3.5 TO MP 12
PROJECT #68606

LARGE CULVERT PLAN & PROFILE

PROJECT DESIGNATION	
68606	
STATE	YEAR
ALASKA	2013
SHEET NUMBER	TOTAL SHEETS
H9	93

FP - 10: AOP CULVERT





H&H Summary:

HYDROLOGIC & HYDRAULIC SUMMARY

EXCEEDANCE PROBABILITY	RECURRENCE INTERVAL (YEAR)	Q (CFS)	HIGH WATER ELEVATION (FT)
0.4x50%	Q2D2		
50%	2		
	10		
2%	50		
1%	100		
DRAINAGE AREA= SQ MI (AC)			
ANTICIPATED ADDITIONAL BACKWATER = FT			
ANTICIPATED ROADWAY OVERTOPPING AT CFS			

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

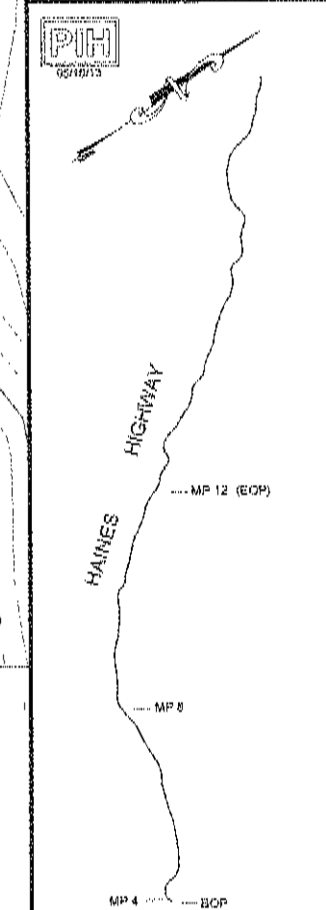
PATH: Q:\24\59119\12_B\059119 HNS DSN\050 DESIGN DRAWINGS\PLAN SET MP 3.5-12\0 SHEETS\H1-H21.DWG
PFAHLER, SCOTT
TAB: H10 Monday, May 13, 2013 4:05:05 PM

ADDENDUM NUMBER

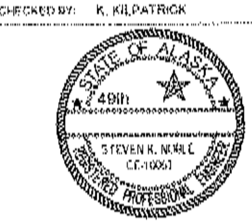
ATTACHMENT NUMBER

RECORD OF REVISIONS

No	DATE	DESCRIPTION



CHECKED BY: K. KILPATRICK



DESIGNED BY: N. HOBBS
DRAWN BY: J. KEMP

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SOUTHEAST REGION

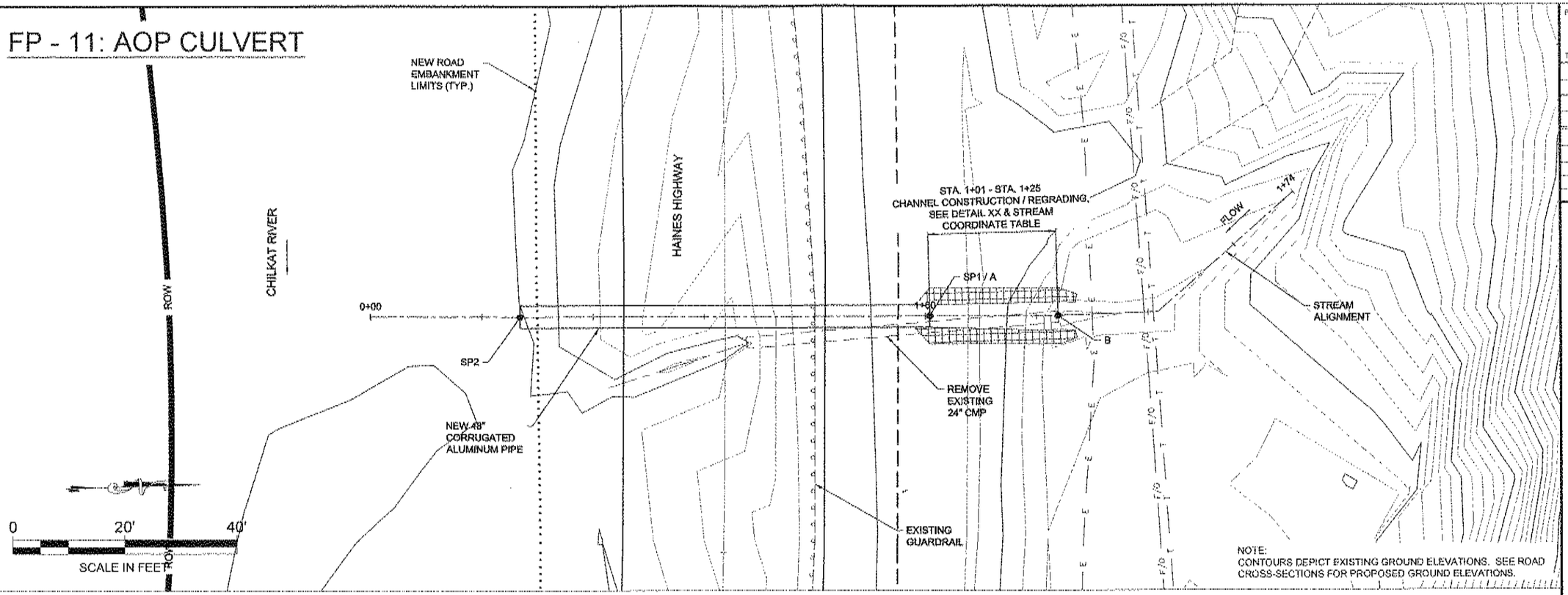
HAINES HIGHWAY
MP 3.5 TO MP 12
PROJECT #68606

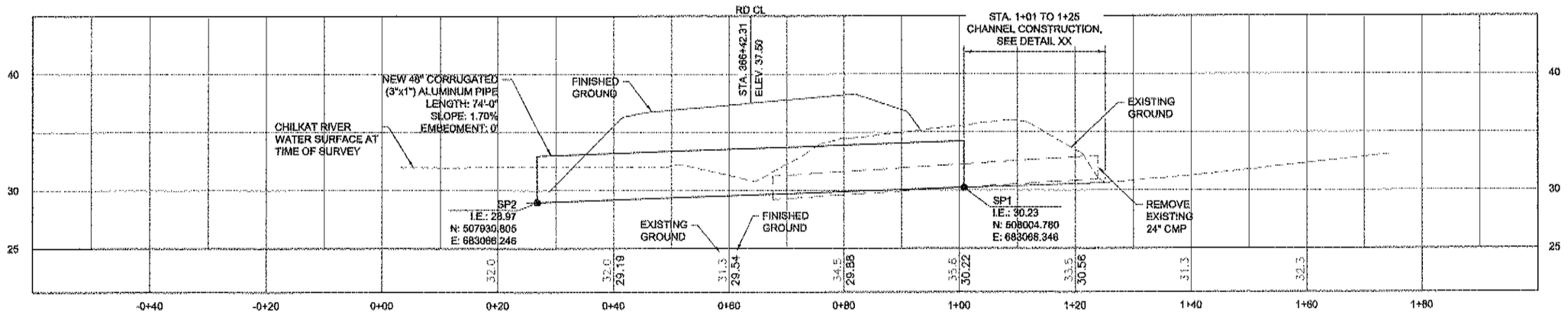
LARGE CULVERT PLAN & PROFILE

PROJECT DESIGNATION: 68606

STATE	YEAR
ALASKA	2013
SHEET NUMBER	TOTAL SHEETS
H10	93

FP - 11: AOP CULVERT





H&H Summary:

HYDROLOGIC & HYDRAULIC SUMMARY

EXCEEDANCE PROBABILITY	RECURRENCE INTERVAL (YEAR)	Q (CFS)	HIGH WATER ELEVATION (FT)
0.4x50%	Q2D2		
50%	2		
	10		
2%	50		
1%	100		
DRAINAGE AREA= SQ MI (AC)			
ANTICIPATED ADDITIONAL BACKWATER = FT			
ANTICIPATED ROADWAY OVERTOPPING AT CFS			

STREAM COORDINATE TABLE

POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION	POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
A	XXXXXX.XXX	XXXXXX.XXX	YY.YY	BEGIN CHANNEL RECONSTRUCTION	I	XXXXXX.XXX	XXXXXX.XXX	YY.YY	
B				END CHANNEL RECONSTRUCTION	J				
C					K				
D					L				
E					M				
F					N				
G					O				
H									

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

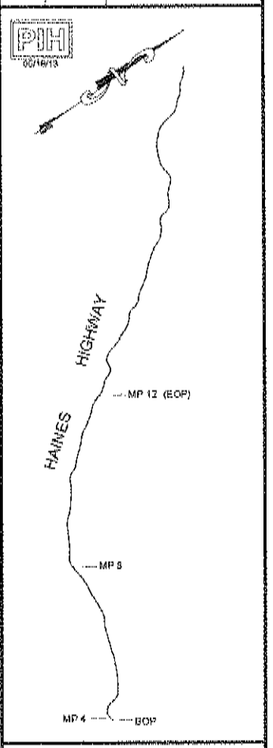
PATH:Q:\2013\68606\119\12\R\D68606119 HNS DSN050 DESIGN DRAWINGS\PLAN SET MP 3.5-12Q SHEETS\H11-H21.DWG
PFAHLER, SCOTT
TAB: H11 Monday, May 13, 2013 4:05:31 PM

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No	DATE	DESCRIPTION



CHECKED BY: K. KILPATRICK

DESIGNED BY: N. HOBBS

DRAWN BY: J. KEMP

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION

HAINES
HIGHWAY
MP 3.5 TO MP 12
PROJECT #68606

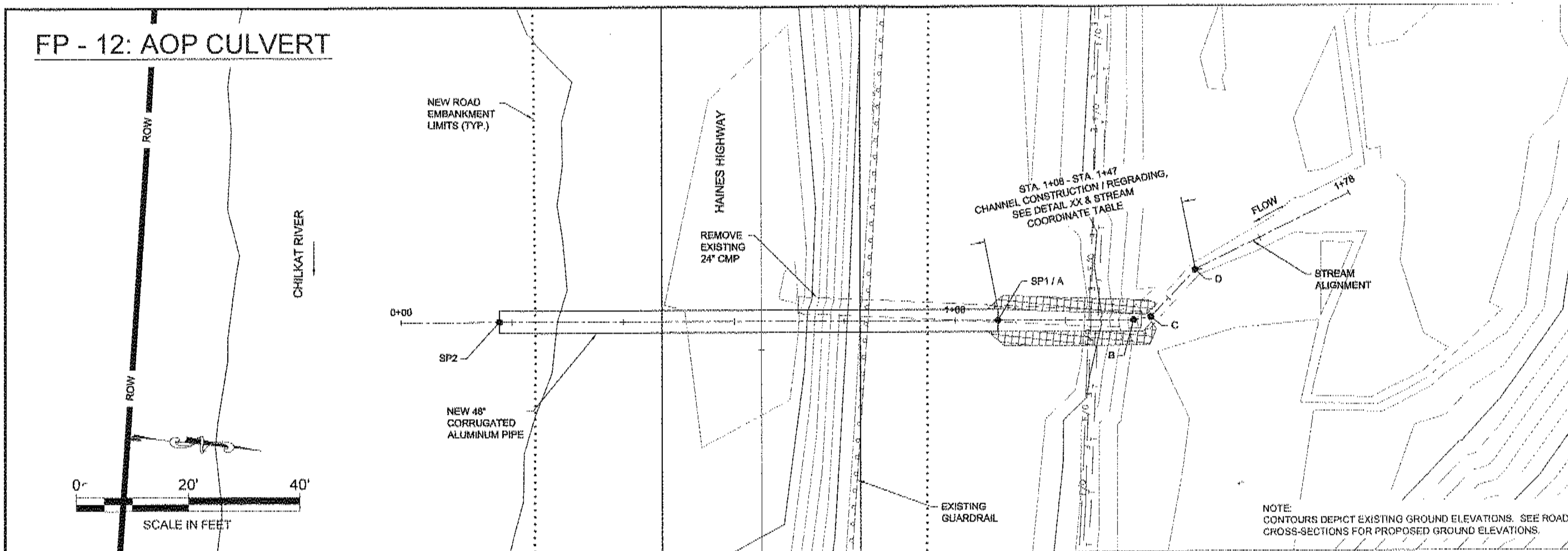
LARGE CULVERT PLAN & PROFILE

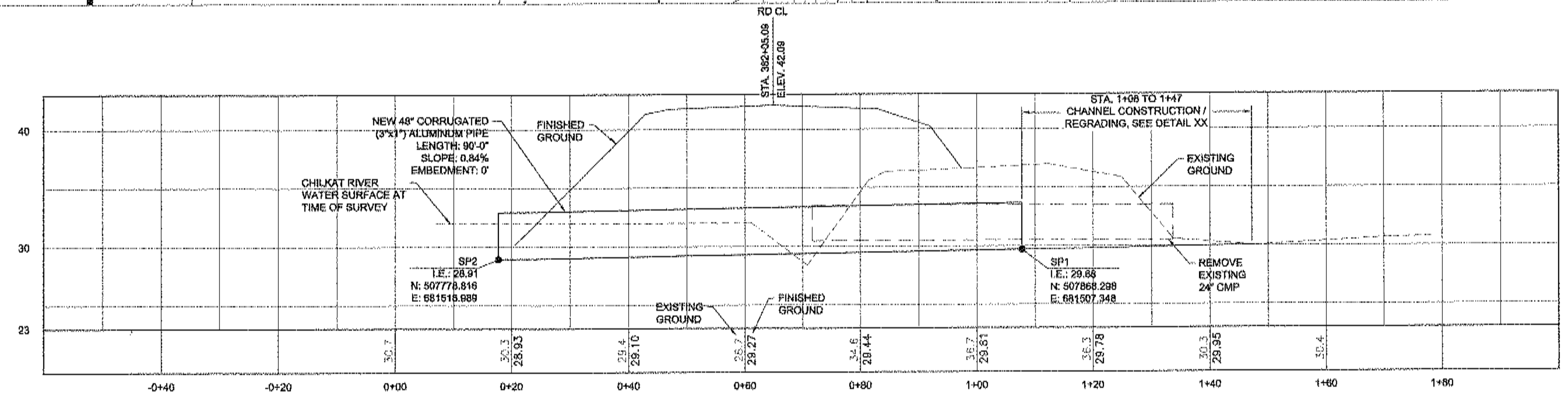
PROJECT DESIGNATION

68606

STATE	YEAR
ALASKA	2013
SHEET NUMBER	TOTAL SHEETS
H11	93

FP - 12: AOP CULVERT





H&H Summary:

HYDROLOGIC & HYDRAULIC SUMMARY			
EXCEEDANCE PROBABILITY	RECURRENCE INTERVAL	Q	HIGH WATER ELEVATION
	(YEAR)	(CFS)	(FT)
0.4x50%	Q2D2		
50%	2		
	10		
2%	50		
1%	100		
DRAINAGE AREA= SQ MI (AC)			
ANTICIPATED ADDITIONAL BACKWATER = FT			
ANTICIPATED ROADWAY OVERTOPPING AT CFS			

STREAM COORDINATE TABLE

POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION	POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
A	XXXXXX.XXX	XXXXXX.XXX	YY.YY	BEGIN CHANNEL RECONSTRUCTION	I	XXXXXX.XXX	XXXXXX.XXX	YY.YY	
B				PI	J				
C				PI	K				
D				END CHANNEL RECONSTRUCTION	L				
E					M				
F					N				
G					O				
H									

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

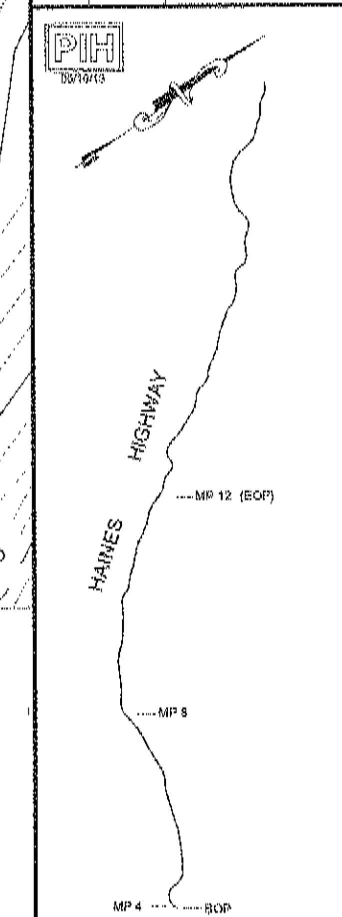
PATH Q:\24\59119\12\LS\D59119 HNS DSN\050 DESIGN DRAWINGS\PLAN SET MP 3.5-12\Q SHEETS\H1-H21.DWG
PFAHLER, SCOTT
TAB: H12 Monday, May 13, 2013 4:05:53 PM

ADDENDUM NUMBER

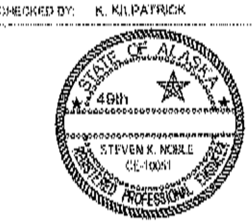
ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION



CHECKED BY: K. KILPATRICK



DESIGNED BY: N. HOBBS
DRAWN BY: J. KEMP

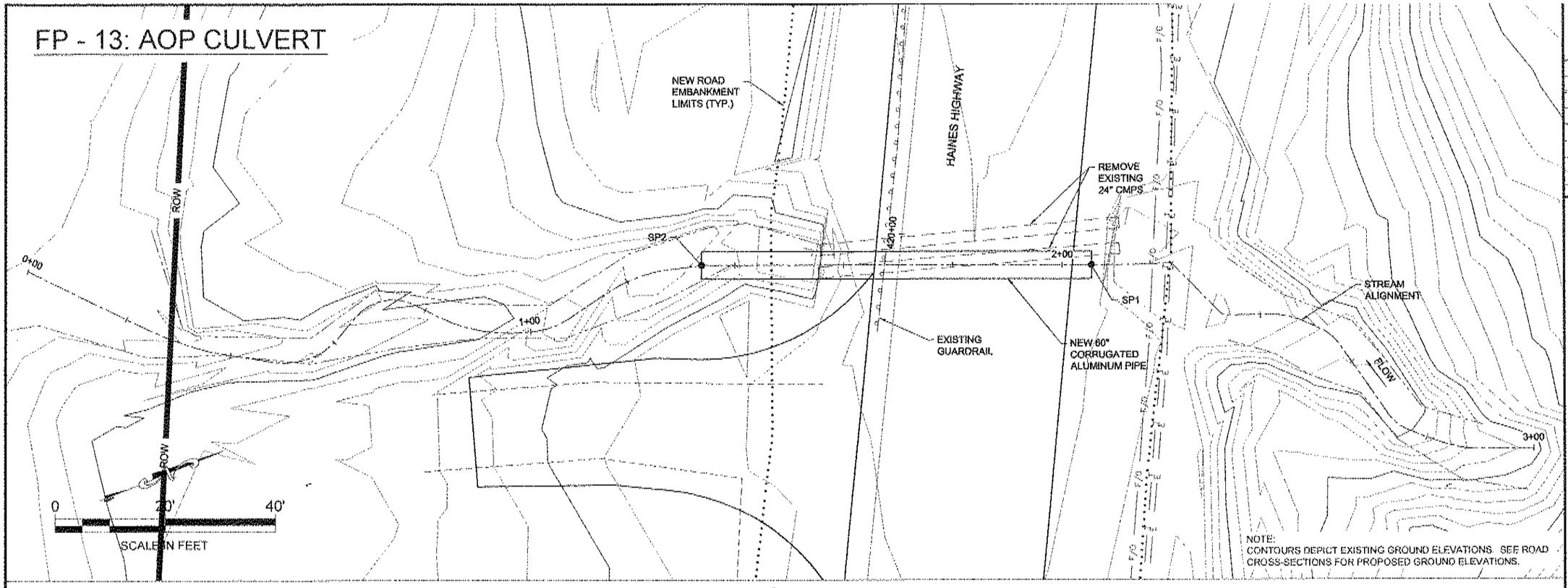
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SOUTHEAST REGION

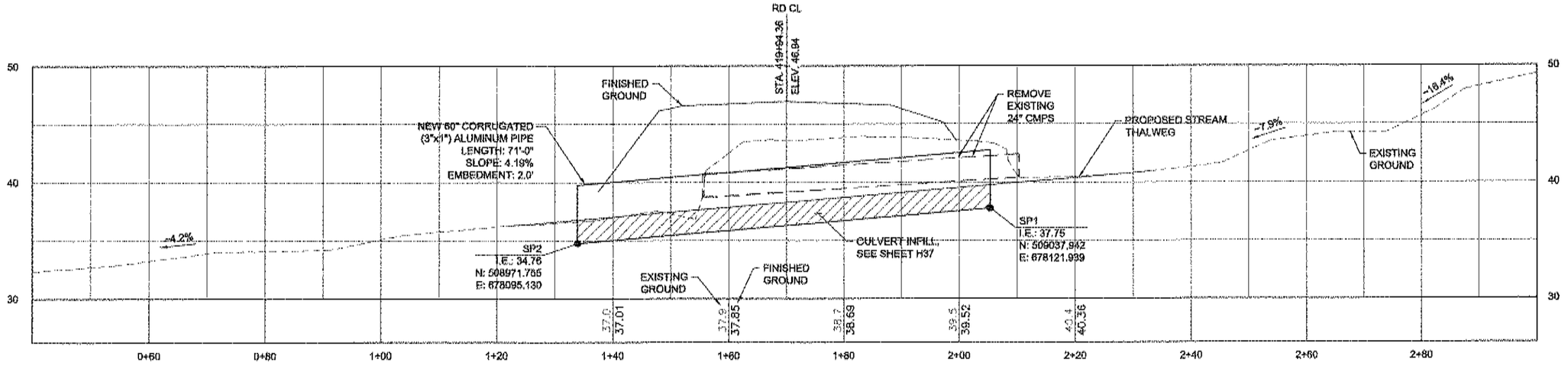
HAINES HIGHWAY
MP 3.5 TO MP 12
PROJECT #68606

LARGE CULVERT PLAN & PROFILE

PROJECT DESIGNATION	
68606	
STATE	YEAR
ALASKA	2013
SHEET NUMBER	TOTAL SHEETS
H12	93

FP - 13: AOP CULVERT





H&H Summary:

HYDROLOGIC & HYDRAULIC SUMMARY			
EXCEEDANCE PROBABILITY	RECURRENCE INTERVAL	Q	HIGH WATER ELEVATION
	(YEAR)	(CFS)	(FT)
0.4x50%	Q202		
50%	2		
	10		
2%	50		
1%	100		
DRAINAGE AREA= SQ MI (AC)			
ANTICIPATED ADDITIONAL BACKWATER = FT			
ANTICIPATED ROADWAY OVERTOPPING AT CFS			

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

PATH Q:\24\59119112\LIB\059119 HNS DSN\050 DESIGN DRAWINGS\PLAN SET MP 3.5-12\Q SHEETS\H1-H21.DWG

PFANLER, SCOTT

TAB: H13 Monday, May 13, 2013 4:06:16 PM

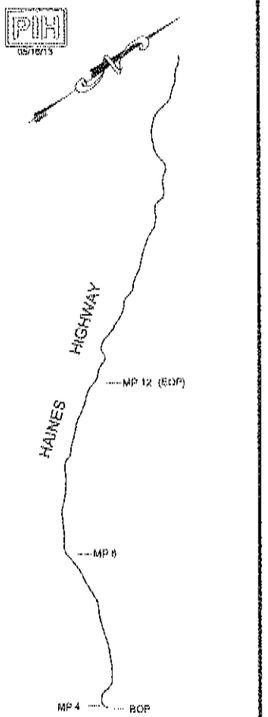
ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

PIH 05/10/13



CHECKED BY: K. KILPATRICK

STATE OF ALASKA 49th STEVEN K. NOBLE CE-10051 REGISTERED PROFESSIONAL ENGINEER

DESIGNED BY: N. HOBBS

DRAWN BY: J. KEMP

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SOUTHEAST REGION

HAINES HIGHWAY
MP 3.5 TO MP 12
PROJECT #68606

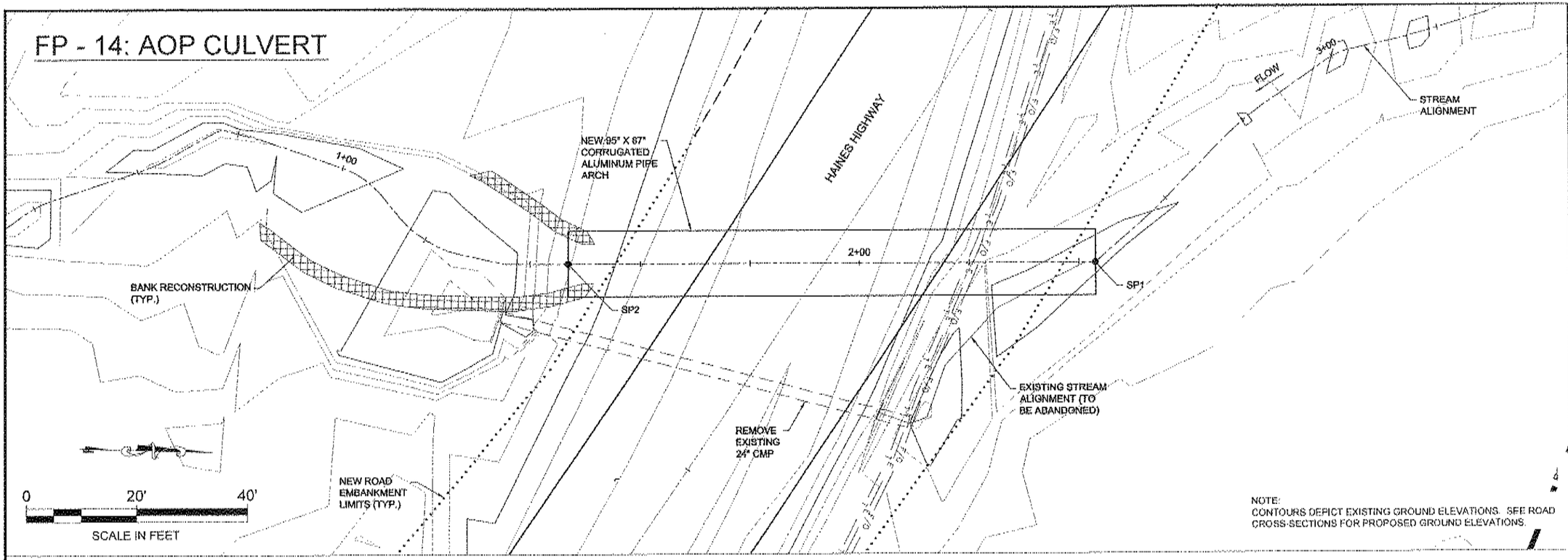
LARGE CULVERT PLAN & PROFILE

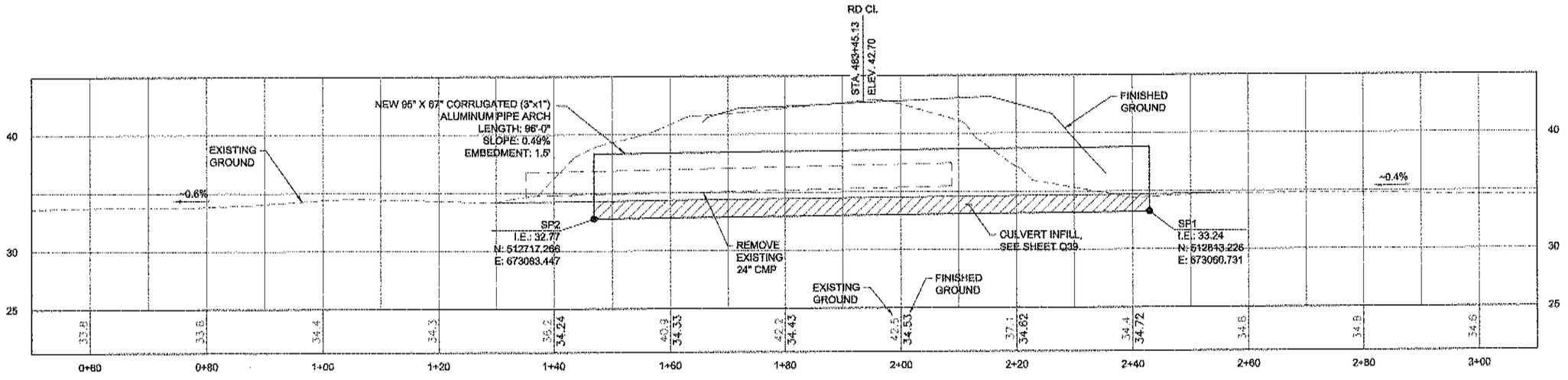
PROJECT DESIGNATION

68606

STATE	YEAR
ALASKA	2013
SHEET NUMBER	TOTAL SHEETS
H13	93

FP - 14: AOP CULVERT





H&H Summary:

HYDROLOGIC & HYDRAULIC SUMMARY			
EXCEEDANCE PROBABILITY	RECURRENCE INTERVAL (YEAR)	Q (CFS)	HIGH WATER ELEVATION (FT)
0.4x50%	Q2D2	30	36.3
50%	2	78	37.5
	10	139	39.0
2%	50	203	41.1
1%	100	232	42.4
DRAINAGE AREA= 1.07 SQ MI			
ANTICIPATED ADDITIONAL BACKWATER = 1 FT			
ANTICIPATED ROADWAY OVERTOPPING AT 250 CFS			

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

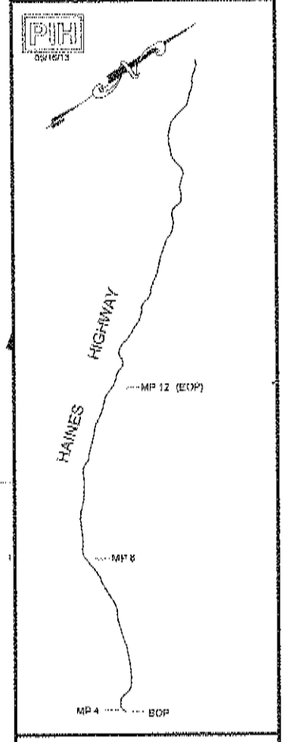
PATH: Q:\24\68\110\13\L\68\68119 HNS DSN\60 DESIGN DRAWINGS\PLAN SET MP 3.5-12\C SHEETS\01-H21.DWG
PFAHLER, SCOTT
TAB: H14 Monday, May 13, 2013 4:06:44 PM

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION



CHECKED BY: K. KILPATRICK

STATE OF ALASKA
49th
STEVEN K. NOBLE
CE-10093
REGISTERED PROFESSIONAL ENGINEER

DESIGNED BY: N. HOBBS

DRAWN BY: J. KEMP

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SOUTHEAST REGION

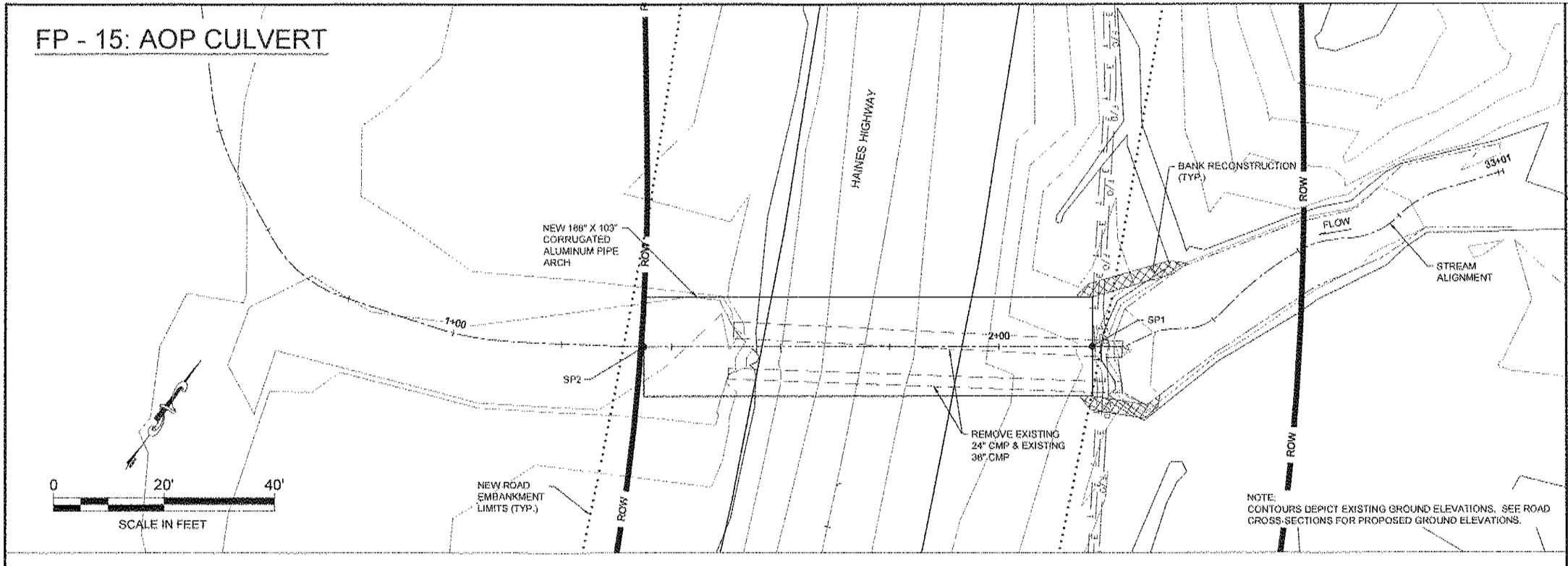
HAINES HIGHWAY
MP 3.5 TO MP 12
PROJECT #68606

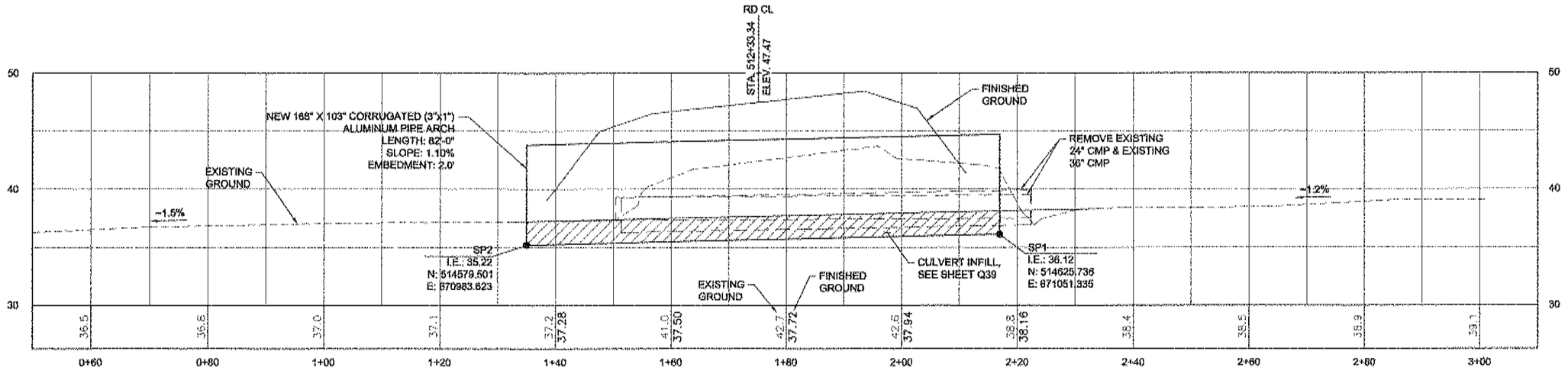
LARGE CULVERT PLAN & PROFILE

PROJECT DESIGNATION
68606

STATE	YEAR
ALASKA	2013
SHEET NUMBER	TOTAL SHEETS
H14	93

FP - 15: AOP CULVERT





H&H Summary:

HYDROLOGIC & HYDRAULIC SUMMARY			
EXCEEDANCE PROBABILITY	RECURRENCE INTERVAL (YEAR)	Q (CFS)	HIGH WATER ELEVATION (FT)
0.4x50%	Q2D2	29	39.9
50%	2	73	41.0
10	10	130	42.1
2%	50	193	43.0
1%	100	220	43.4
DRAINAGE AREA= 1.46 SQ MI (AC)			
ANTICIPATED ADDITIONAL BACKWATER = 0 FT			
ANTICIPATED ROADWAY OVERTOPPING AT 560 CFS			

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

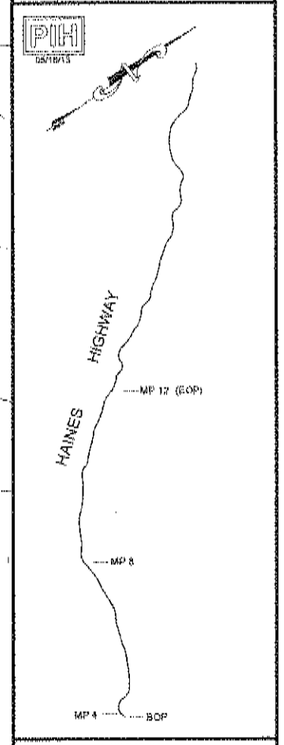
PATH: O:\24\59119\12\LIB\D59119 RNS DSN050 DESIGN DRAWINGS\PLAN SET MP 3.5-12\Q SHEETS\H1-H21.DWG
PFAIFLER, SCOTT
TAB: H15 Monday, May 13, 2013 4:12:42 PM

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION



CHECKED BY: K. KILPATRICK

STATE OF ALASKA
49th
STEVEN K. NOBLE
CE-10041
REGISTERED PROFESSIONAL ENGINEER

DESIGNED BY: N. HOBBS
DRAWN BY: J. KEMP

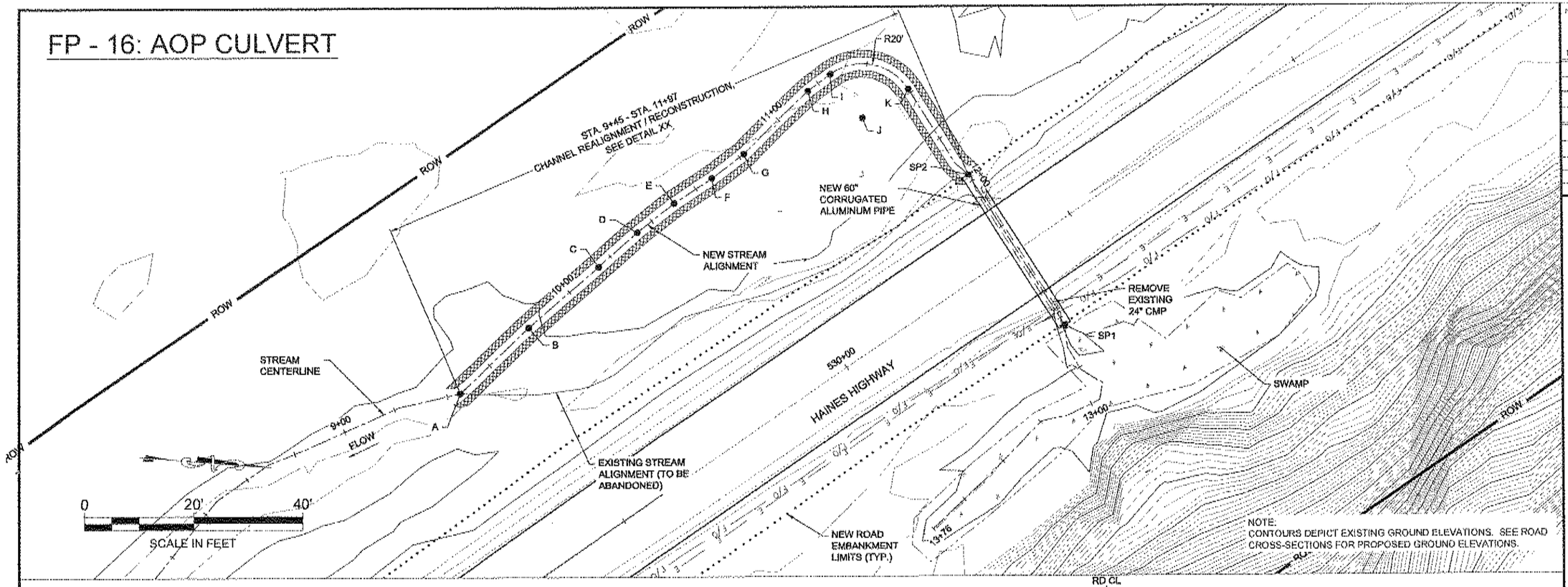
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SOUTHEAST REGION

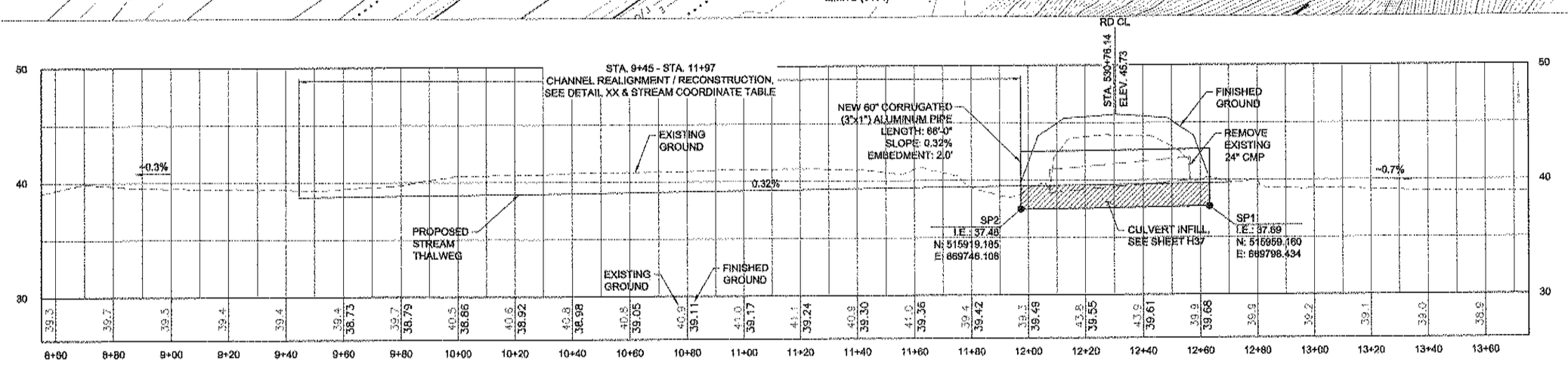
HAINES HIGHWAY
MP 3.5 TO MP 12
PROJECT #68606

LARGE CULVERT PLAN & PROFILE

PROJECT DESIGNATION	
68606	
STATE	YEAR
ALASKA	2013
SHEET NUMBER	TOTAL SHEETS
H15	93

FP - 16: AOP CULVERT





H&H Summary:

HYDROLOGIC & HYDRAULIC SUMMARY

EXCEEDANCE PROBABILITY	RECURRENCE INTERVAL (YEAR)	Q (CFS)	HIGH WATER ELEVATION (FT)
	Q2D2		
0.4x50%	2		
50%	10		
2%	50		
1%	100		
DRAINAGE AREA= SQ MI (AC)			
ANTICIPATED ADDITIONAL BACKWATER = FT			
ANTICIPATED ROADWAY OVERTOPPING AT CFS			

STREAM COORDINATE TABLE

POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION	POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
A	XXXXXX.XXX	XXXXXX.XXX	YY.YY	BEGIN CHANNEL RECONSTRUCTION	I	XXXXXX.XXX	XXXXXX.XXX	YY.YY	PC
B				PI	J				RADIUS PNT, X' HORIZONTAL CURVE
C				PI	K				PT
D				PI	L				
E				PI	M				
F				PI	N				
G				PI	O				
H				PI					

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

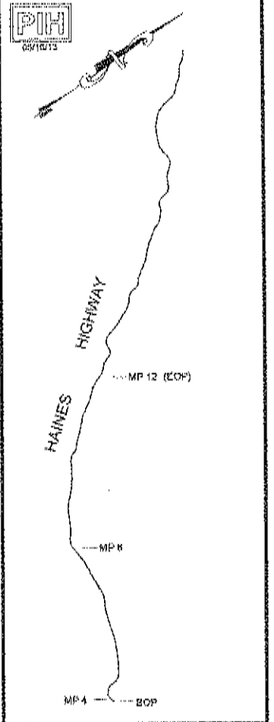
PATH: Q:\24\59119\12\LIB\D59119 HNS DSN036 DESIGN DRAWINGS\PLAN SET MP 3.5-12\Q SHEETS\H1-N21.DWG
PFAHLER, SCOTT
TAB: H16 Monday, May 13, 2013 4:07:33 PM

ADDENDUM NUMBER
ATTACHMENT NUMBER

RECORD OF REVISIONS

No	DATE	DESCRIPTION

PIH 05/15/13



CHECKED BY: K. KILPATRICK

STATE OF ALASKA
49th
STEVEN K. NOBLE
CE-10057
PROFESSIONAL ENGINEER

DESIGNED BY: N. HOBBS
DRAWN BY: J. KEMP

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SOUTHEAST REGION

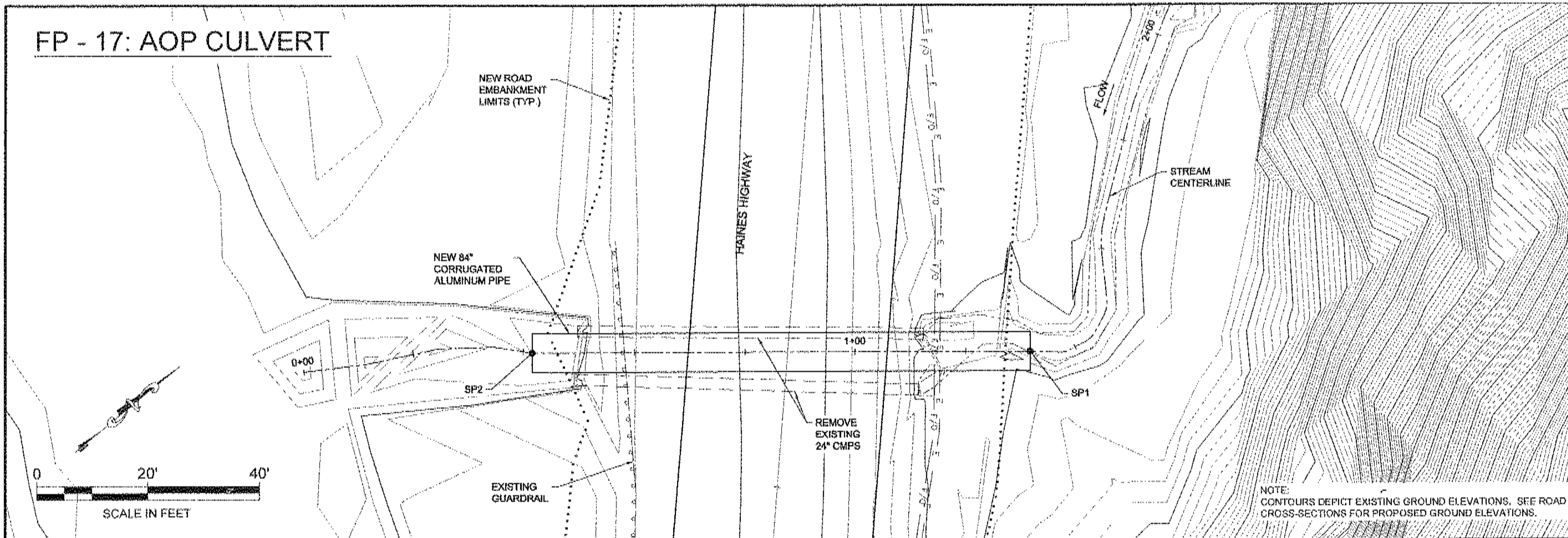
HAINES HIGHWAY
MP 3.5 TO MP 12
PROJECT #68606

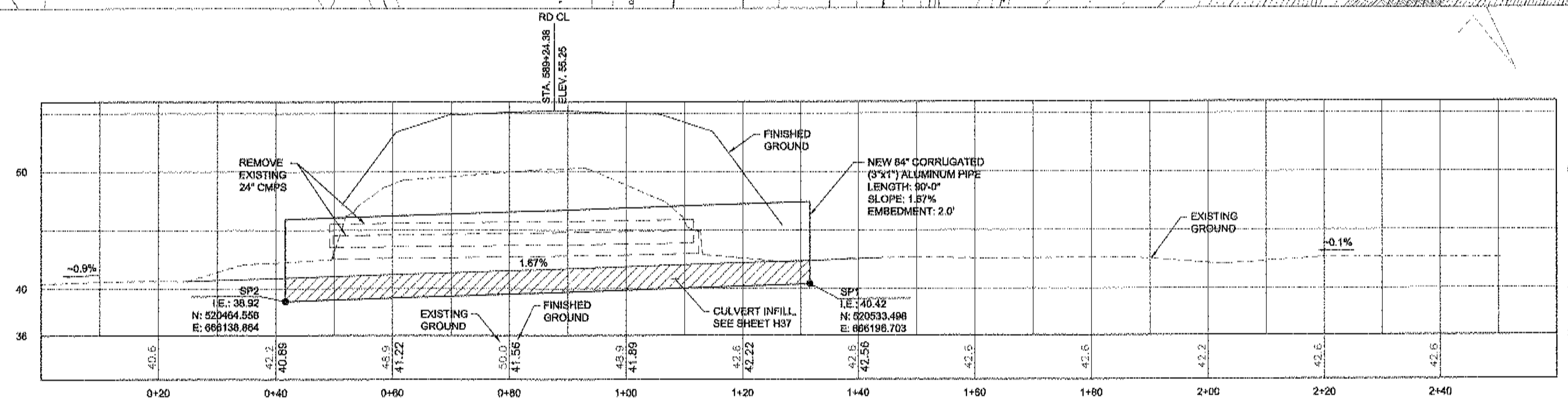
LARGE CULVERT PLAN & PROFILE

PROJECT DESIGNATION
68606

STATE	YEAR
ALASKA	2013
SHEET NUMBER	TOTAL SHEETS
H16	93

FP - 17: AOP CULVERT





H&H Summary:

HYDROLOGIC & HYDRAULIC SUMMARY

EXCEEDANCE PROBABILITY	RECURRENCE INTERVAL	Q	HIGH WATER ELEVATION
	(YEAR)	(CFS)	(FT)
0.4x50%	Q2D2	21	45.1
50%	2	52	45.3
	10	96	46.0
2%	50	140	46.8
1%	100	160	47.3
DRAINAGE AREA= 0.65 SQ MI			
ANTICIPATED ADDITIONAL BACKWATER = 4.5 FT			
ANTICIPATED ROADWAY OVERTOPPING AT 394 CFS			

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

PATH: O:\24559119125.IB\059119 HNS DSN050 DESIGN DRAWINGS\PLAN SET MP 3.5-12\Q SHEETS\H1-H21.DWG
PFAHLER, SCOTT
TAB: H17 Monday, May 13, 2013 4:07:54 PM

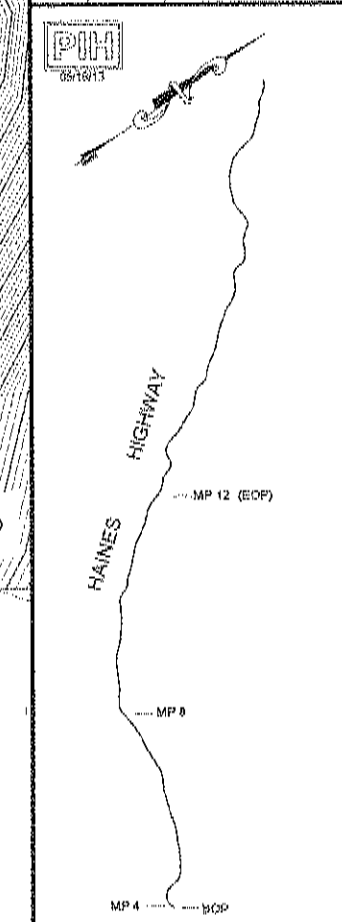
ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

PIH 05/10/13



CHECKED BY: K. KILPATRICK

STATE OF ALASKA 49th STEVEN K. NOBLE CE-10061 REGISTERED PROFESSIONAL ENGINEER

DESIGNED BY: N. HOBBS

DRAWN BY: J. KEMP

STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES SOUTHEAST REGION

HAINES HIGHWAY MP 3.5 TO MP 12 PROJECT #68606

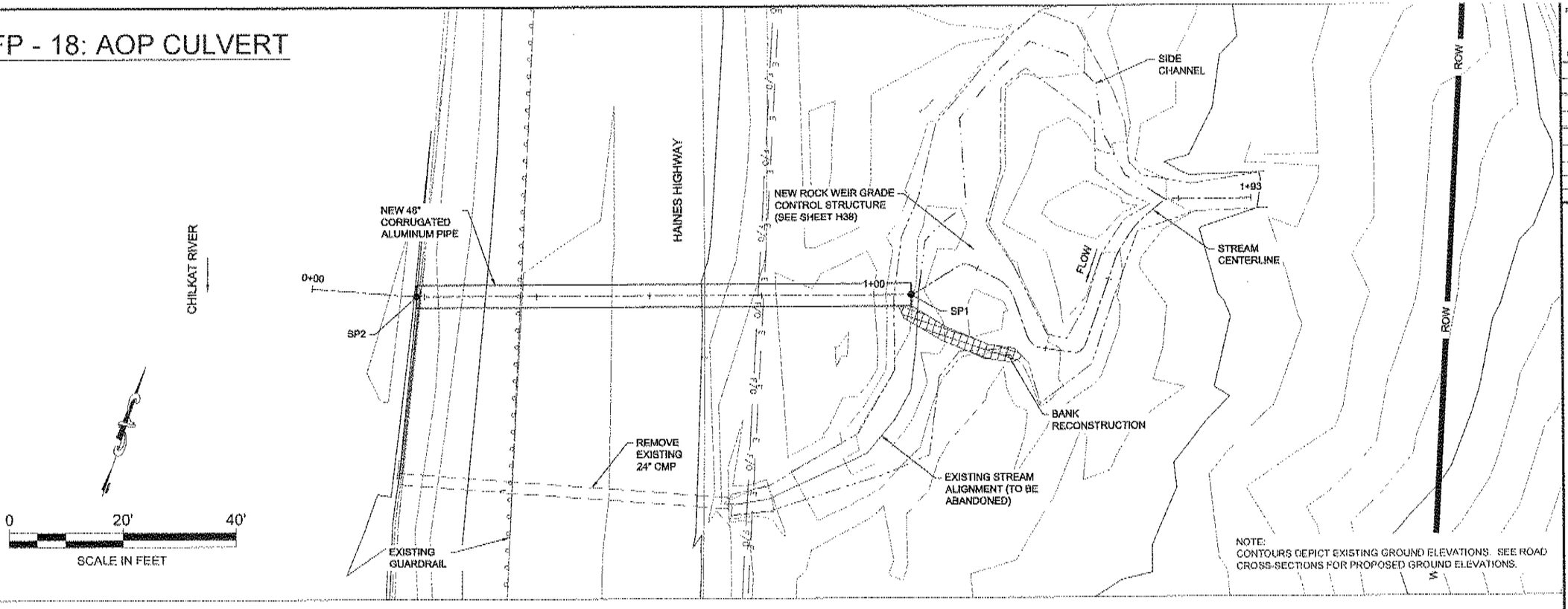
LARGE CULVERT PLAN & PROFILE

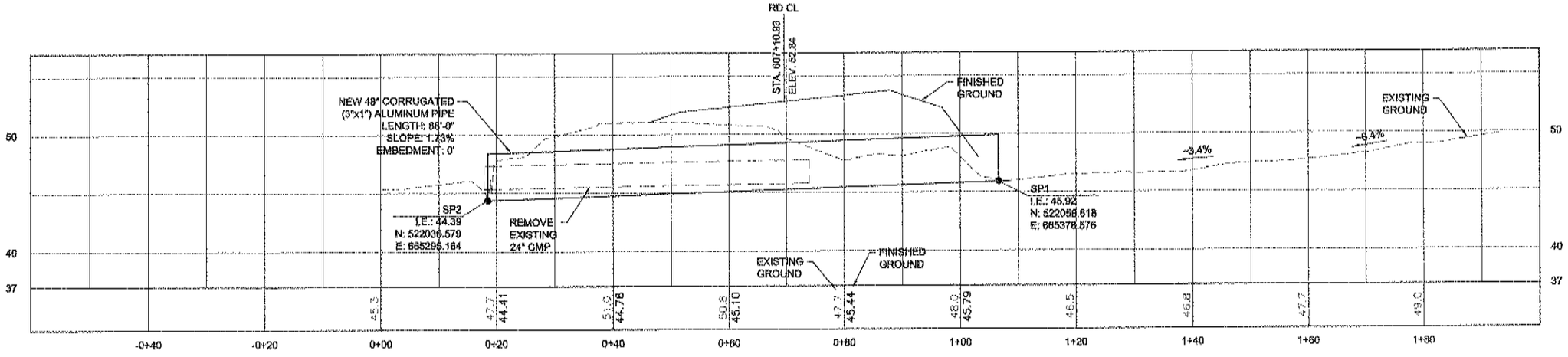
PROJECT DESIGNATION: 68606

STATE: ALASKA | YEAR: 2013

SHEET NUMBER: H17 | TOTAL SHEETS: 93

FP - 18: AOP CULVERT





H&H Summary:

HYDROLOGIC & HYDRAULIC SUMMARY			
EXCEEDANCE PROBABILITY	RECURRENCE INTERVAL	Q	HIGH WATER ELEVATION
	(YEAR)	(CFS)	(FT)
0.4x50%	Q2D2		
50%	2		
	10		
2%	50		
1%	100		
DRAINAGE AREA= SQ MI (AC)			
ANTICIPATED ADDITIONAL BACKWATER = FT			
ANTICIPATED ROADWAY OVERTOPPING AT CFS			

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

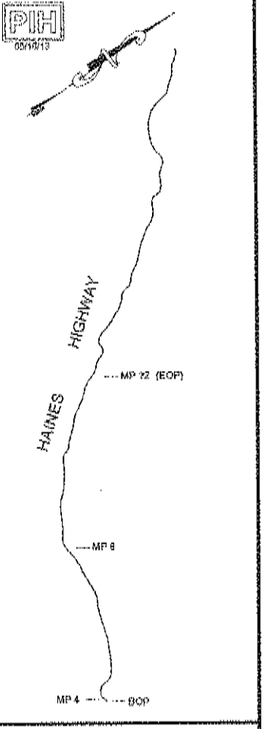
PATH: Q:\24\59119\12\LIB\DB9119 HNN DSN050
DESIGN DRAWINGS\PLAN SET MP 3.5-12\G SHEETS\H1-H21.DWG
PFAHLER, SCOTT
TAB: H18 Monday, May 13, 2013 4:08:25 PM

ADDENDUM NUMBER
ATTACHMENT NUMBER

RECORD OF REVISIONS

No	DATE	DESCRIPTION

PIH 05/10/13



CHECKED BY: K. KILPATRICK

STATE OF ALASKA
7/49th
STEVEN K. NOBLE
CE-10051
REGISTERED PROFESSIONAL ENGINEER

DESIGNED BY: N. HOBBS
DRAWN BY: J. KEMP

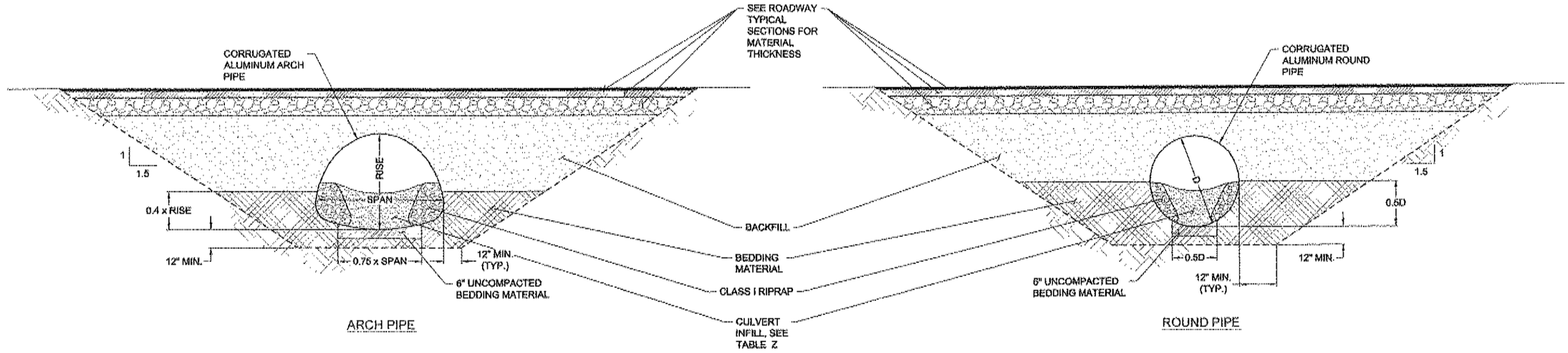
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SOUTHEAST REGION

HAINES HIGHWAY
MP 3.5 TO MP 12
PROJECT #68606

LARGE CULVERT PLAN & PROFILE

PROJECT DESIGNATION
68606

STATE	YEAR
ALASKA	2013
SHEET NUMBER	TOTAL SHEETS
H18	93



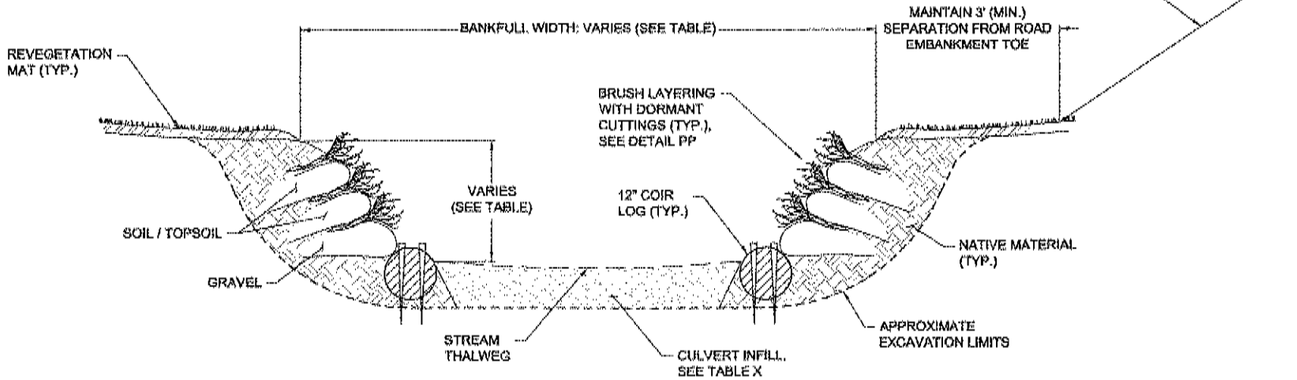
NOTES:

ENGINEER TO APPROVE OF MIXED CULVERT INFILL MATERIAL BEFORE PLACING MATERIAL IN CULVERT OR RECONSTRUCTED STREAM CHANNEL. NOTIFY THE ENGINEER AT LEAST 48 HOURS IN ADVANCE OF PLACING CULVERT INFILL MATERIAL.

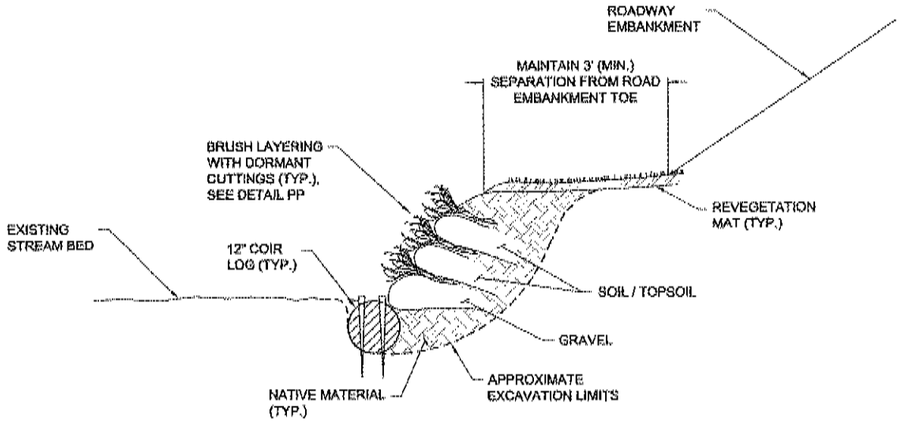
SALVAGE EXISTING STREAM BED MATERIAL EXCAVATED DURING CONSTRUCTION. MIX EXCAVATED MATERIAL WITH SPECIFIED CULVERT INFILL MATERIAL.

CONSTRUCT STREAMBED AND BANKS LEAVING A NON-UNIFORM ROUGH SURFACE.

1 / H37 TYPICAL CULVERT CROSS-SECTION
NTS



2 / H37 CHANNEL RECONSTRUCTION



3 / H37 BANK RECONSTRUCTION

FISH PASS SITE STREAM PROPERTIES

SITE	BANKFULL WIDTH (FT)	BANK HEIGHT (FT)	STREAMBED GRADATION	SITE	BANKFULL WIDTH (FT)	BANK HEIGHT (FT)	STREAMBED GRADATION
FP-1	7	1.4		FP-10			
FP-2	2 - 3	1.3		FP-11	4		
FP-3	2	0.9		FP-12	2		
FP-4	2	1.1		FP-13	5 - 6	3.6	
FP-5	3	0.8		FP-14	8		
FP-6	8	2.6		FP-15	15	1.9	
FP-7	3 - 4	2.6		FP-16	3	1.2	
FP-8	5	1.1		FP-17	6	1.5	
FP-9	7	1.7		FP-18	8	1.0	

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

CHECKED BY: K. BUCHHOLSKI

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SOUTHEAST REGION

HAINES HIGHWAY
MP 3.5 TO MP 12
PROJECT #68606

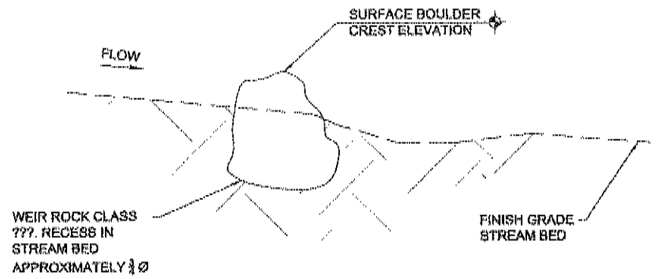
LARGE CULVERT DETAILS

DESIGNED BY: S. NOBLE
DRAWN BY: N. HOBBS

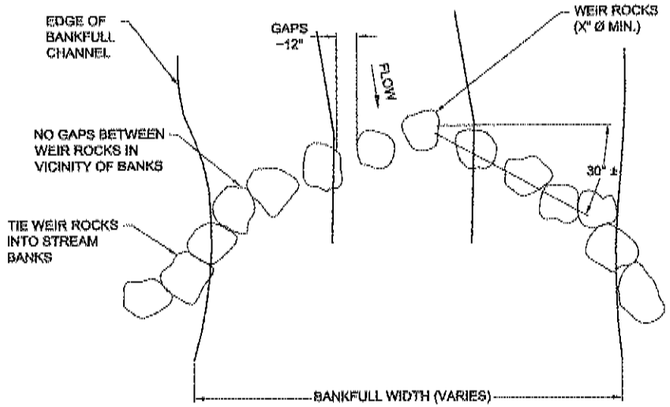
PATH: G:\24581910\12\US60259110 HNS DSN\050 DESIGN DRAWINGS\PLAN SET MP 3.5-12\G SHEETS\HDETAILS.DWG
TAB: H19 Monday, May 13, 2013 3:37:19 PM PFAHLER, SCOTT

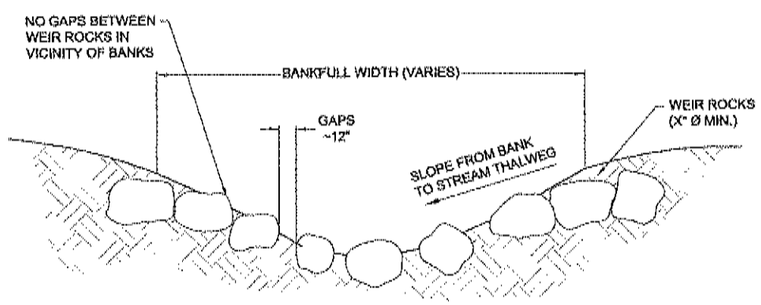
REVISIONS NO.	DATE	DESCRIPTION

PROJECT DESIGNATION	YEAR	SHEET NO	TOTAL SHEETS
68606	2013	H19	93

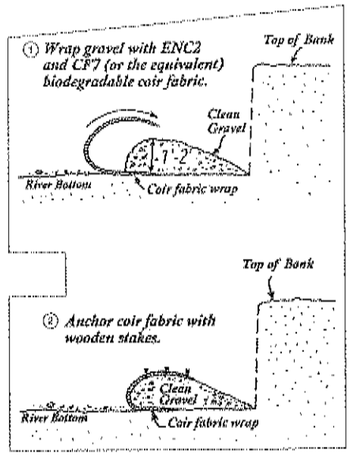


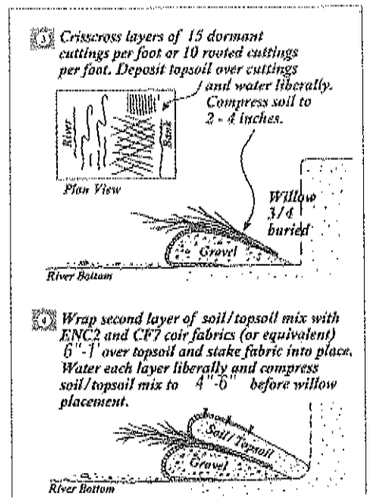
1 / H38 ROCK WEIR GRADE CONTROL STRUCTURE
NTS



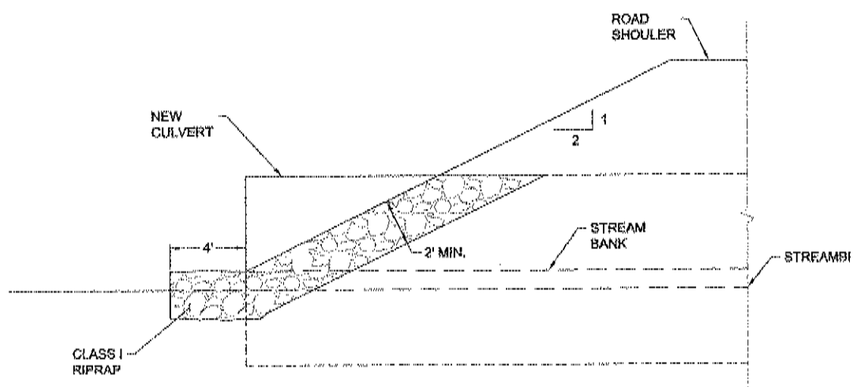


2 / H38 ROCK WEIR GRADE CONTROL STRUCTURE
NTS





3 / H38 BRUSH LAYERING
NTS



4 / H38 RIPRAP SLOPE PROTECTION SECTION
NTS

NOTES:

1. RIPRAP CLASS I TO BE STACKED AS A STRUCTURAL UNIT FORMING A 2:1 SLOPING WALL TO RETAIN FILL NEXT TO THE MOUTH OF THE CULVERT. RIPRAP WILL BE SORTED AND STACKED TO FORM A STABLE UNIT.
2. EXTEND RIPRAP LAYER MINIMUM OF 5' FROM BOTH SIDES OF CULVERT.
3. TIE RIPRAP SLOPE PROTECTION INTO CONSTRUCTED BANK.
4. FILL VOIDS WITH UNCLASSIFIED EXCAVATION AFTER RIPRAP IS IN PLACE.

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

CHECKED BY: K. SUCHODOLSKI

STATE OF ALASKA
49th
STEVEN K. NOBLE
CE-10051
REGISTERED PROFESSIONAL ENGINEER

DESIGNED BY: S. NOBLE
DRAWN BY: N. HOBBS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION

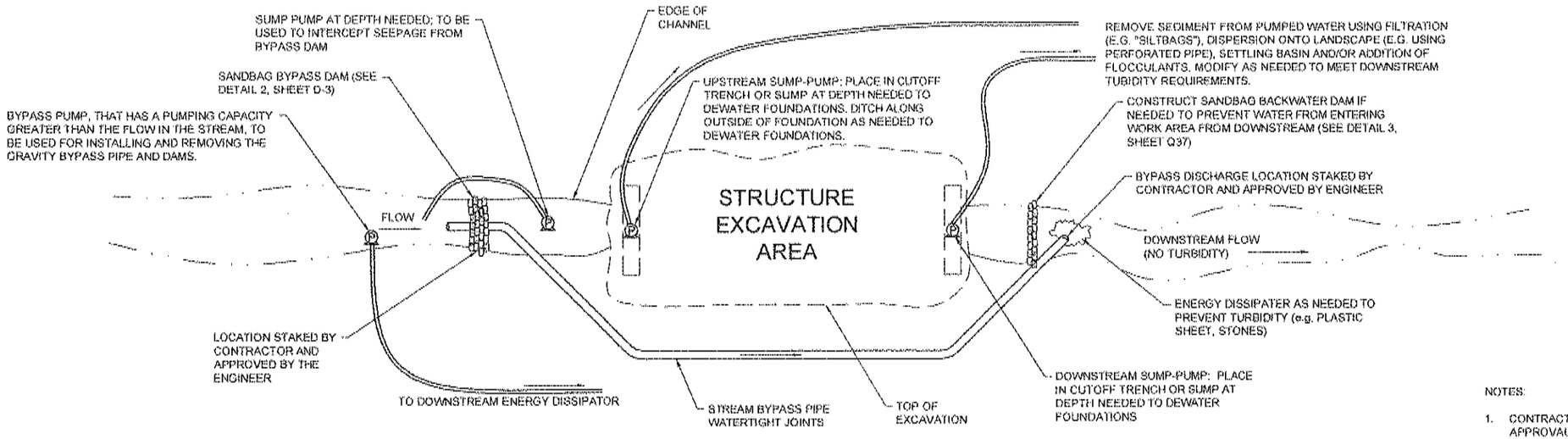
HAINES HIGHWAY
MP 3.5 TO MP 12
PROJECT #68606

LARGE CULVERT DETAILS

PATH: O:\24\59119\12\DGN\59119 HNS DSN050 DESIGN DRAWINGS\PLAN SET MP 3.5-12\Q SHEETS\HDETAILS.DWG
TAB: H20 Monday, May 13, 2013 3:07:38 PM FRAILER, SCOTT

REVISIONS NO	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			68606	2013	H20	93

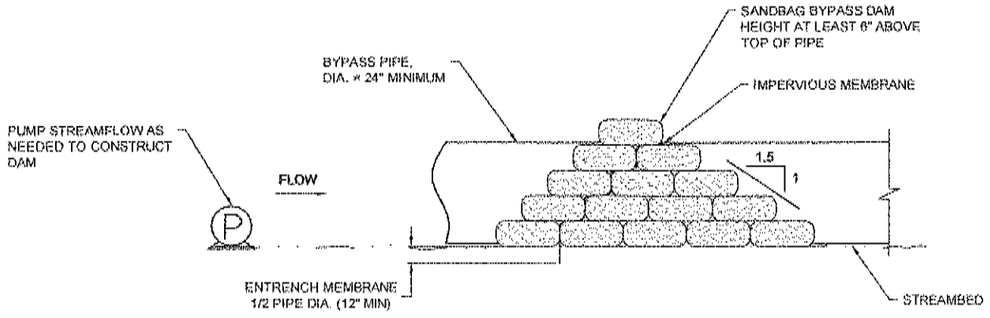
PIH 06/19/13



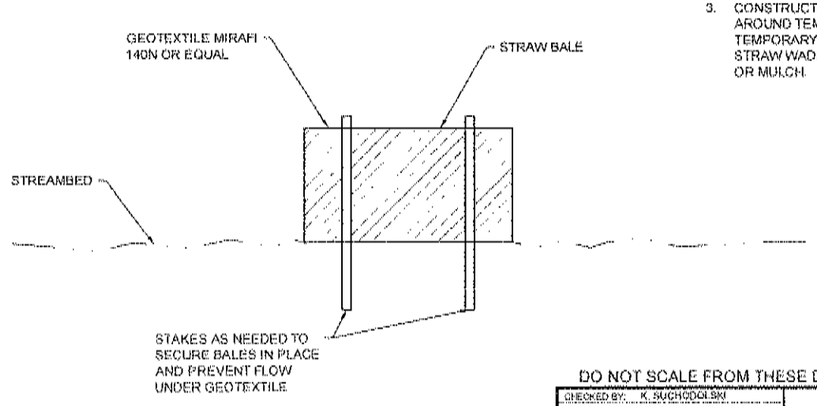
1 / H39 CONCEPTUAL DEWATERING & SEDIMENT CONTROL PLAN
NTS

NOTES:

1. CONTRACTOR SHALL PREPARE FOR REVIEW AND APPROVAL A SOIL EROSION AND POLLUTION CONTROL PLAN TO INCLUDE STREAM DEWATERING/DIVERSION METHODS IN ACCORDANCE WITH SPECIFICATIONS AND THESE PLANS. DETAILS SHOWN ON THIS SHEET ARE CONCEPTUAL AND PROVIDE GUIDANCE OF METHODS AND MEANS THAT WOULD BE ACCEPTABLE.
2. WHEN CONSTRUCTING STREAM DIVERSION CONTRACTOR SHALL CAREFULLY REMOVE SOD AND TOPSOIL THAT LIES ALONG THE DIVERSION PATH AND STOCKPILE IN A LOCATION APPROVED BY THE ENGINEER. AFTER REMOVING THE DIVERSION STRUCTURE AND BACKFILLING THE TRENCH, CONTRACTOR SHALL CAREFULLY REPLACE THIS STOCKPILED MATERIAL. PRIORITY AREAS FOR REPLACEMENT OF VEGETATION ARE STREAMBANKS AND FLOODPLAINS.
3. CONSTRUCT TEMPORARY SEDIMENT EROSION CONTROLS AROUND TEMPORARY STOCKPILES AND STAGING AREAS. TEMPORARY CONTROLS MAY INCLUDE SILT FENCES, STRAW WADDLES OR BALES, EROSION CONTROL MATTING OR MULCH.



2 / H39 SANDBAG BYPASS DAM
NTS



3 / H39 GEOTEXTILE-WRAPPED STRAW BALE DAM
NTS

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

CHECKED BY: K. SUCHODOLSKI

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SOUTHEAST REGION

HAINES HIGHWAY
MP 3.5 TO MP 12
PROJECT #68606

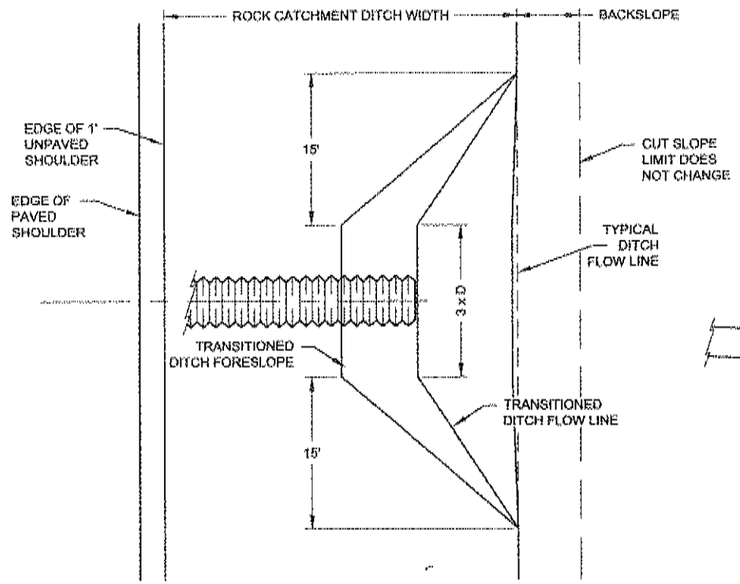
LARGE CULVERT DETAILS

DESIGNED BY: S. NOBLE
DRAWN BY: N. HOBBS
PATH: Q:\2410\9119\12\LBID09119 HNS DSN\050 DESIGN DRAWINGS\PLAN SET MP 3.5-12\Q SHEETS\HDETAILS.DWG
TAB: H21 Monday, May 13, 2013 3:38:05 PM PFAHLER, SCOTT

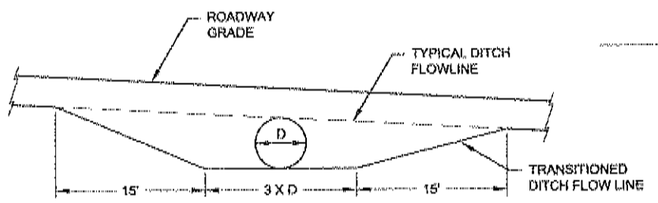
REVISIONS NO	DATE	DESCRIPTION

PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
68606	2013	H21	93

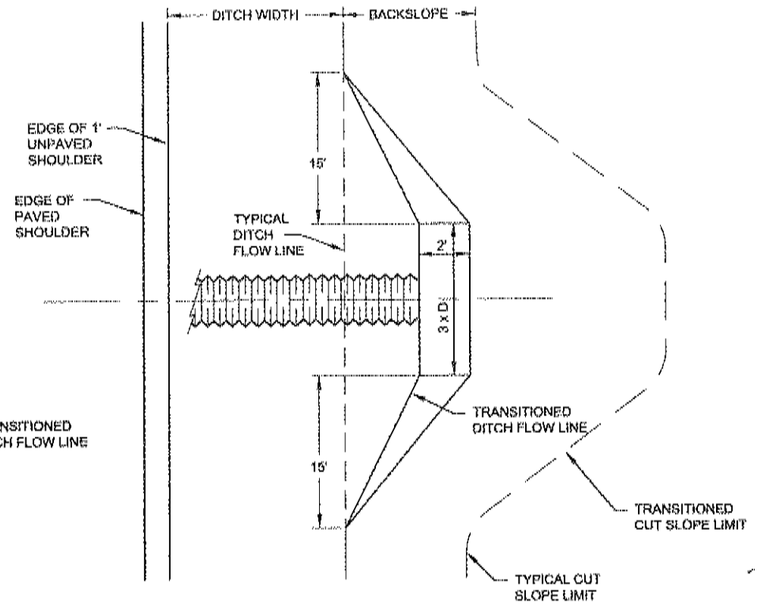
PH 05/15/13



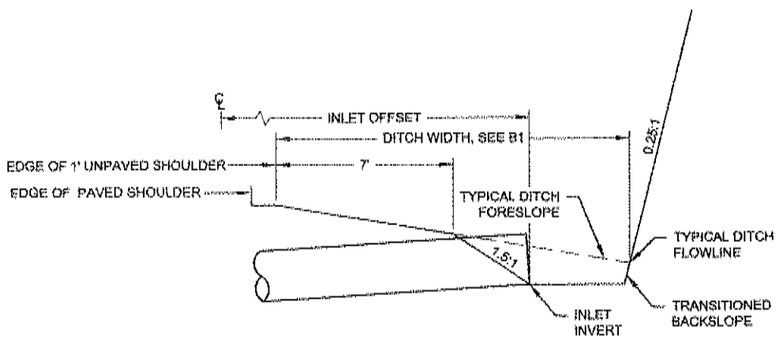
PLAN - ROCK BACKSLOPE



ELEVATION
SOIL AND ROCK BACKSLOPE



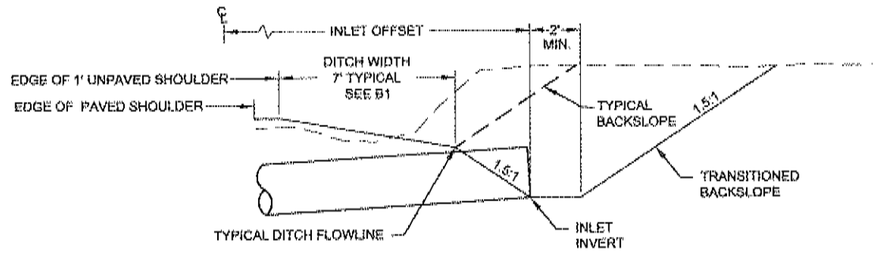
PLAN - SOIL BACKSLOPE



SECTION - ROCK BACKSLOPE

HILLSIDE INLET NOTES:

1. SOIL BACKSLOPE DITCH GRADE TRANSITIONS FROM V BOTTOM DITCH TO 2' FLAT BOTTOM DITCH.
2. D = CULVERT DIAMETER



SECTION - SOIL BACKSLOPE

HILLSIDE INLET DETAILS

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

CHECKED BY: K. SUCHODOLSKI

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION

STATE OF ALASKA 49th STEVEN K. NOBLE CE-10051 REGISTERED PROFESSIONAL ENGINEER

HAINES HIGHWAY
MP 3.5 TO MP 12
PROJECT #68606

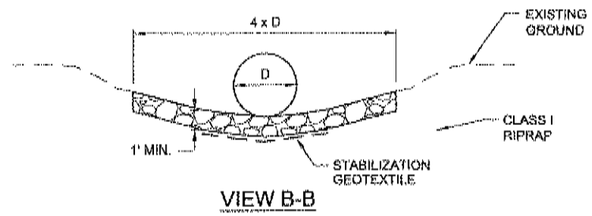
MISCELLANEOUS DETAILS

DESIGNED BY: S. NOBLE
DRAWN BY: N. HOBBS

PATH: S:\LIB\DS9119 HNS DSN\000 DESIGN DRAWINGS\PLAN SET MP 3.5-12\J SHEETS\J1-J3 MISC DETS.DWG
TAB: J1 Monday, May 13, 2013 5:38:01 PM HOBBS, NAOMI

PIH 05/16/13

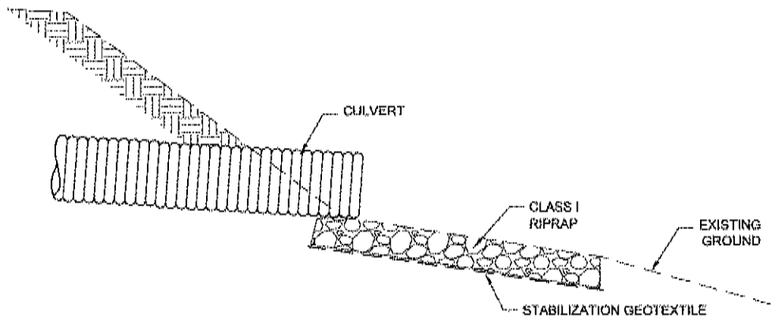
REVISIONS NO.	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			68606	2013	J1	93



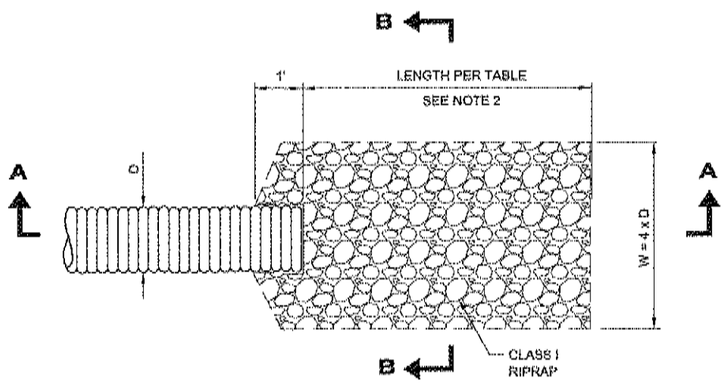
VIEW B-B

NOTES:

1. FOR CULVERT LOCATIONS AND REPLACEMENT SEE SHEET D1.
2. SEE RIPRAP LINED OUTLET SUMMARY ON SHEET D1

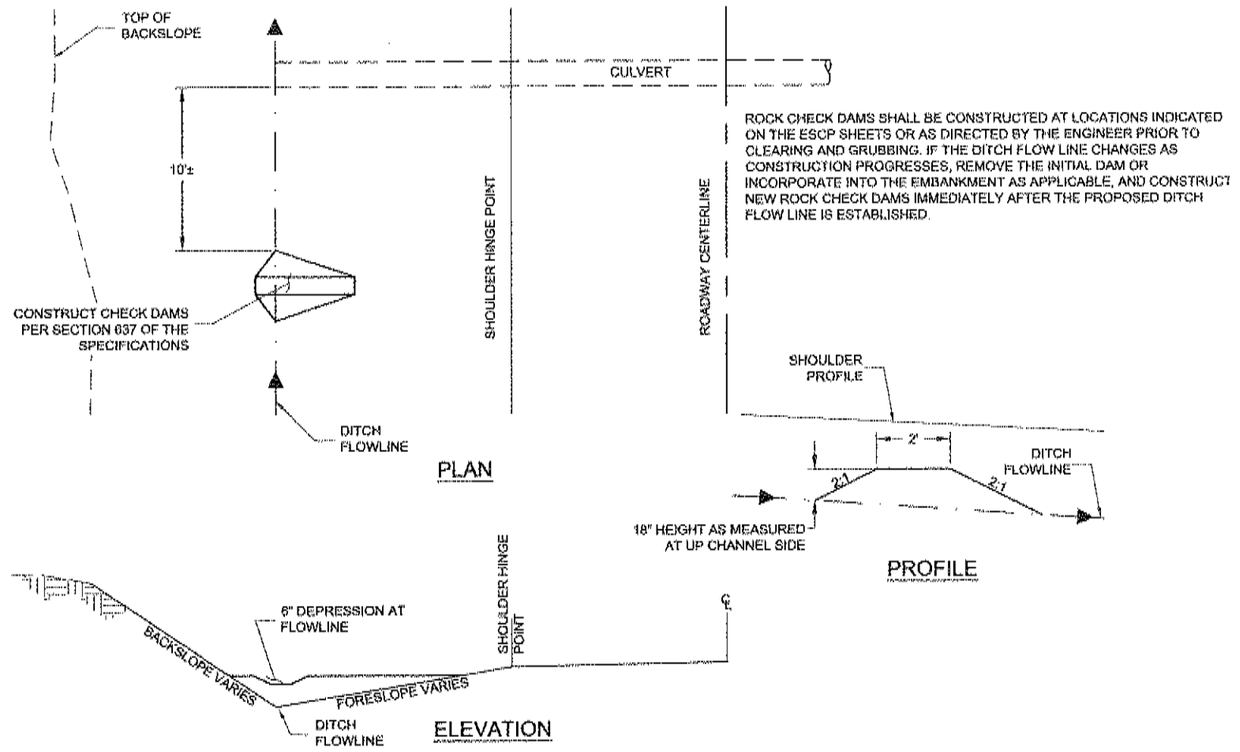


SECTION A-A



PLAN

RIPRAP LINED OUTLET APRON DETAIL



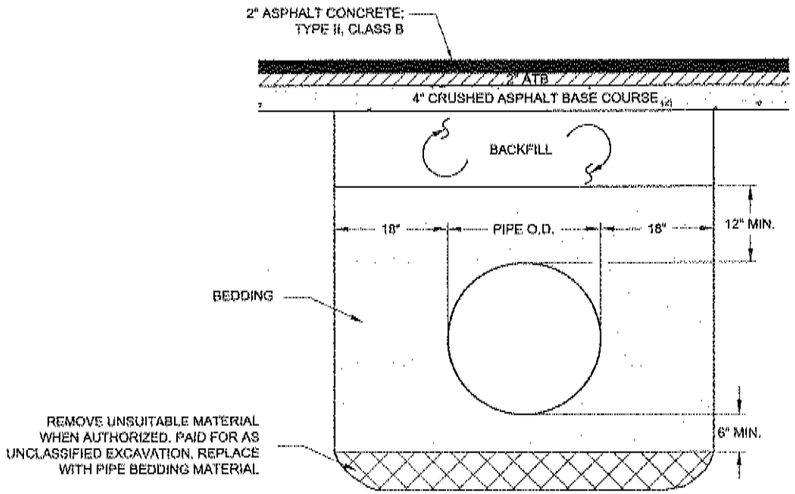
PLAN

ROCK CHECK DAMS SHALL BE CONSTRUCTED AT LOCATIONS INDICATED ON THE ESCP SHEETS OR AS DIRECTED BY THE ENGINEER PRIOR TO CLEARING AND GRUBBING. IF THE DITCH FLOW LINE CHANGES AS CONSTRUCTION PROGRESSES, REMOVE THE INITIAL DAM OR INCORPORATE INTO THE EMBANKMENT AS APPLICABLE, AND CONSTRUCT NEW ROCK CHECK DAMS IMMEDIATELY AFTER THE PROPOSED DITCH FLOW LINE IS ESTABLISHED.

PROFILE

ELEVATION

ROCK CHECK DAM DETAILS



CULVERT BEDDING/BACKFILL DETAIL

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

CHECKED BY: K. SUCHODOLSKI

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SOUTHEAST REGION

STATE OF ALASKA 49th STEVEN K. NOBLE CE-10051 REGISTERED PROFESSIONAL ENGINEER

HAINES HIGHWAY
MP 3.5 TO MP 12
PROJECT #68606

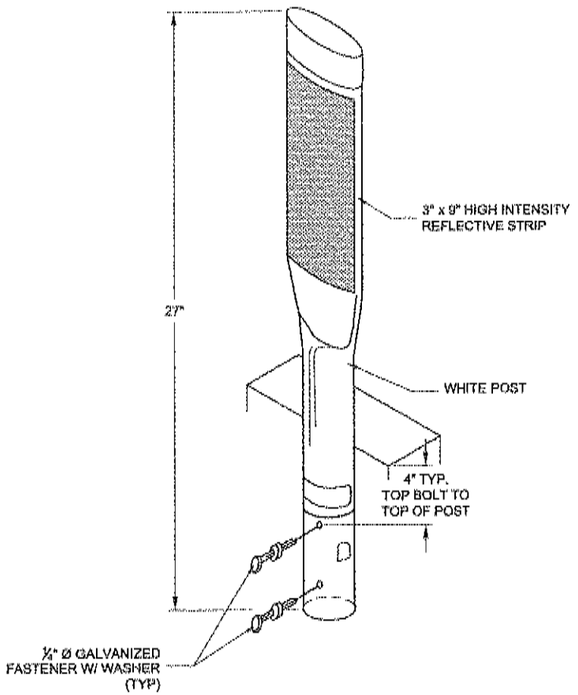
MISCELLANEOUS DETAILS

DESIGNED BY: S. NOBLE
DRAWN BY: N. HOBBS

PATH: S:\LIDN\59119 HNS DSN\050 DESIGN DRAWINGS\PLAN SET MP 3.5-12\J SHEETS\J1-J8 MISC DETS.DWG
TAB: J2 Monday, May 13, 2013 5:39:04 PM HOBBS, NAOMI

PIH 05/16/13

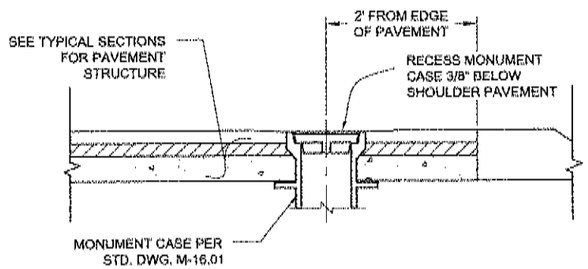
REVISIONS NO.	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			68606	2013	J2	93



FLEXIBLE GUARDRAIL DELINEATOR DETAIL

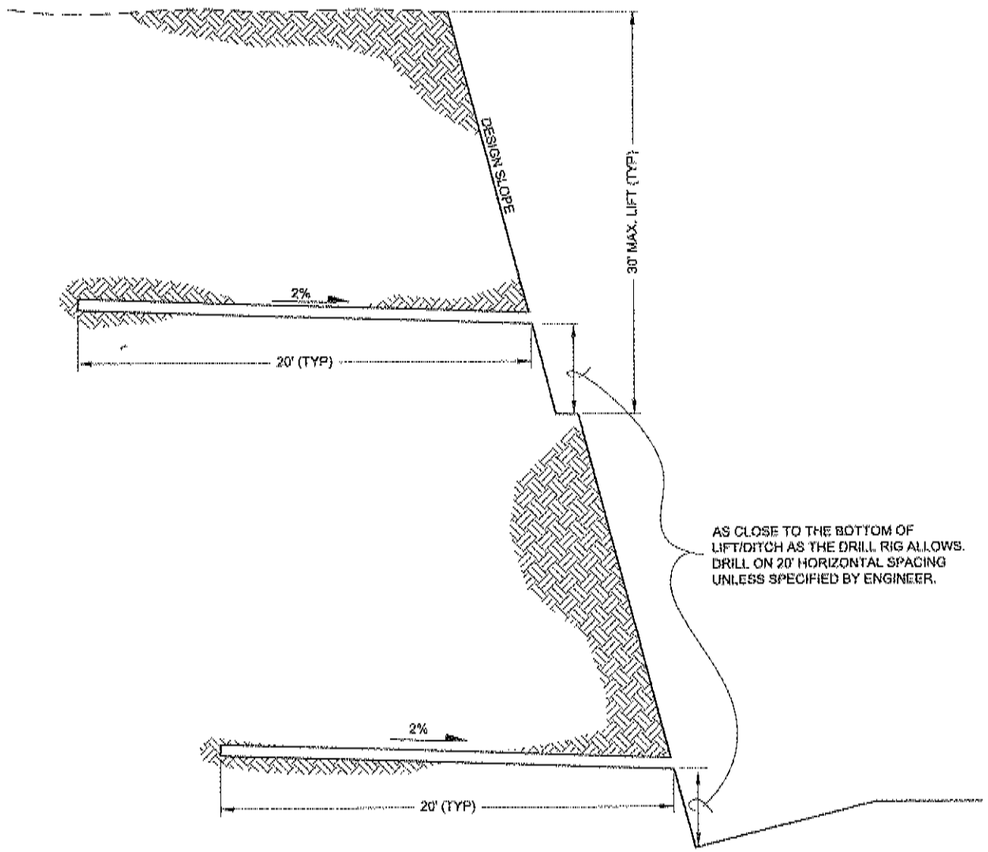
FLEXIBLE GUARDRAIL DELINEATOR NOTES:

1. DELINEATORS SHALL BE WHITE IN COLOR WITH WHITE OR SILVER REFLECTIVE SHEETING.
2. REFLECTIVE SHEETING SHALL FACE ONCOMING TRAFFIC IN THE ADJACENT LANE.
3. DELINEATORS SHALL BE INSTALLED ON THE POST CLOSEST TO THE HEAD OF PARALLEL GUARDRAIL TERMINALS AND THE CRT ANCHOR POST AT DOWNSTREAM END ANCHORS.
4. STEEL POST GUARDRAIL SHALL BE PRE-DRILLED PRIOR TO SECURING DELINEATOR WITH SELF-TAPPING SCREWS.
5. DELINEATORS ARE SUBSIDIARY TO GUARDRAIL.



MONUMENT ENCASEMENT DETAIL

REFER TO SUMMARY TABLES FOR APPROXIMATE LOCATIONS



ROCK SLOPE DRAIN HOLE DETAIL

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

CHECKED BY: K. SUCHODOLSKI

STATE OF ALASKA
STEVEN K. NOBLE
CE-10051
REGISTERED PROFESSIONAL ENGINEER

DESIGNED BY: S. NOBLE
DRAWN BY: N. HOBBS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION

HAINES HIGHWAY
MP 3.5 TO MP 12
PROJECT #68606

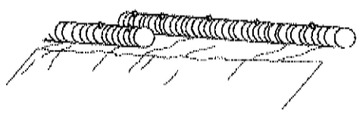
MISCELLANEOUS DETAILS

PATH: S:\LI8\C59119 HNS DSN\D50 DESIGN DRAWINGS\PLAN SET MP 3.5-12\J SHEETS\J1-J8 MISC DETS.DWG
TAB: J3 Monday, May 13, 2013 5:39:08 PM HOBBS, NAOMI

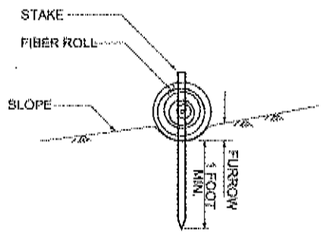
PIH INTERESTS

REVISIONS NO.	DATE	DESCRIPTION

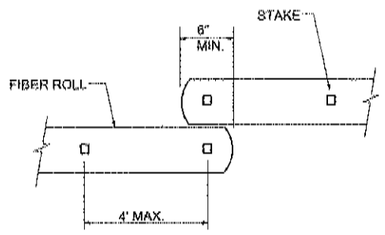
PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
68606	2013	J3	93



PERSPECTIVE

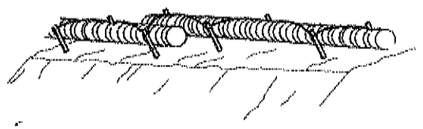


SECTION

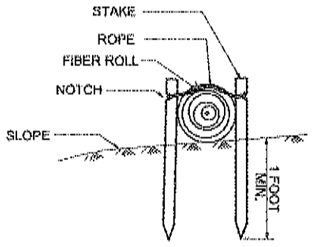


PLAN

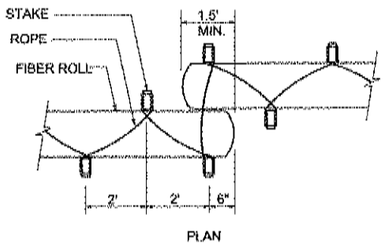
FIBER ROLL (TYPE 1)



PERSPECTIVE

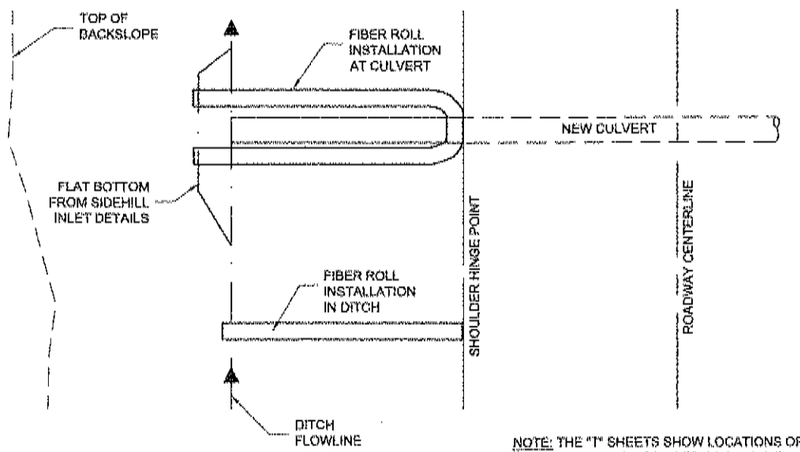


SECTION

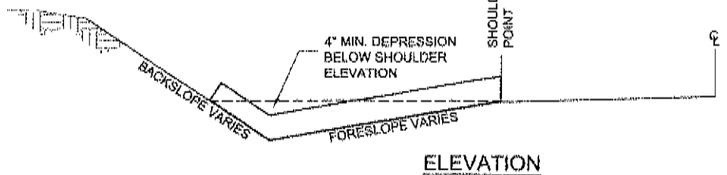


PLAN

FIBER ROLL (TYPE 2)



PLAN

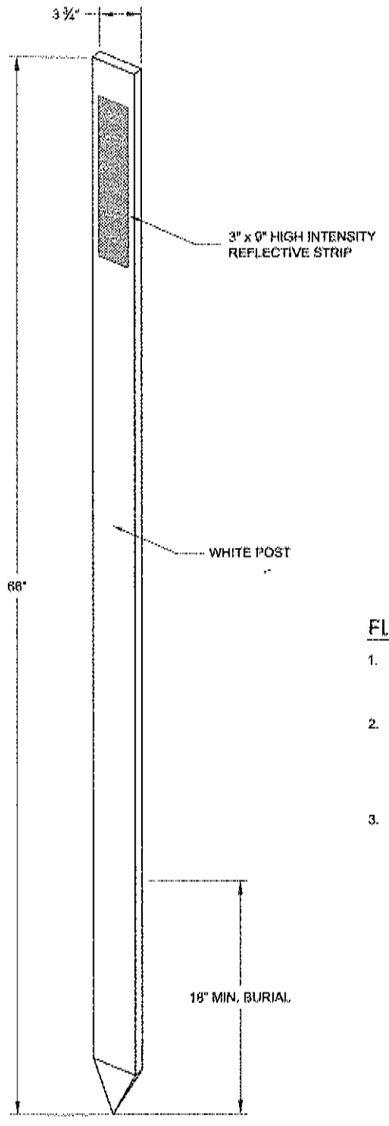


ELEVATION

FIBER ROLL DETAILS

WHERE FIBER ROLL IS USED IN DITCHES

NOTE: THE "T" SHEETS SHOW LOCATIONS OF EACH INSTALLATION. FIBER ROLL SHOULD BE INSTALLED AROUND NEW CULVERTS AS SOON AS THE NEW SLOPE IS CONSTRUCTED. FIBER ROLLS IN THE DITCH ARE USED IN LOCATIONS WHERE THE DITCH IS TOO SHALLOW FOR A ROCK CHECK DAM. BOTH CASES SHALL USE THE FIBER ROLL (TYPE 1) INSTALLATION METHOD.



FLEXIBLE DELINEATOR DETAIL

FLEXIBLE DELINEATOR NOTES:

1. FLEXIBLE DELINEATORS SHALL BE WHITE IN COLOR WITH WHITE OR SILVER REFLECTIVE SHEETING.
2. LOCATE ON BOTH SIDES OF THE PAVEMENT 2' FROM THE SHOULDER. DISTANCE BETWEEN DELINEATORS SHALL BE APPROXIMATELY 500' ON TANGENTS AND 250' ON CURVES.
3. FLEXIBLE DELINEATORS ARE NOT REQUIRED WHERE GUARDRAIL IS PRESENT.

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

CHECKED BY: K. SUCHODOLSKI

STATE OF ALASKA
STEVEN K. NOBLE
CE-10051
REGISTERED PROFESSIONAL ENGINEER

DESIGNED BY: S. NOBLE
DRAWN BY: N. HOBBS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION

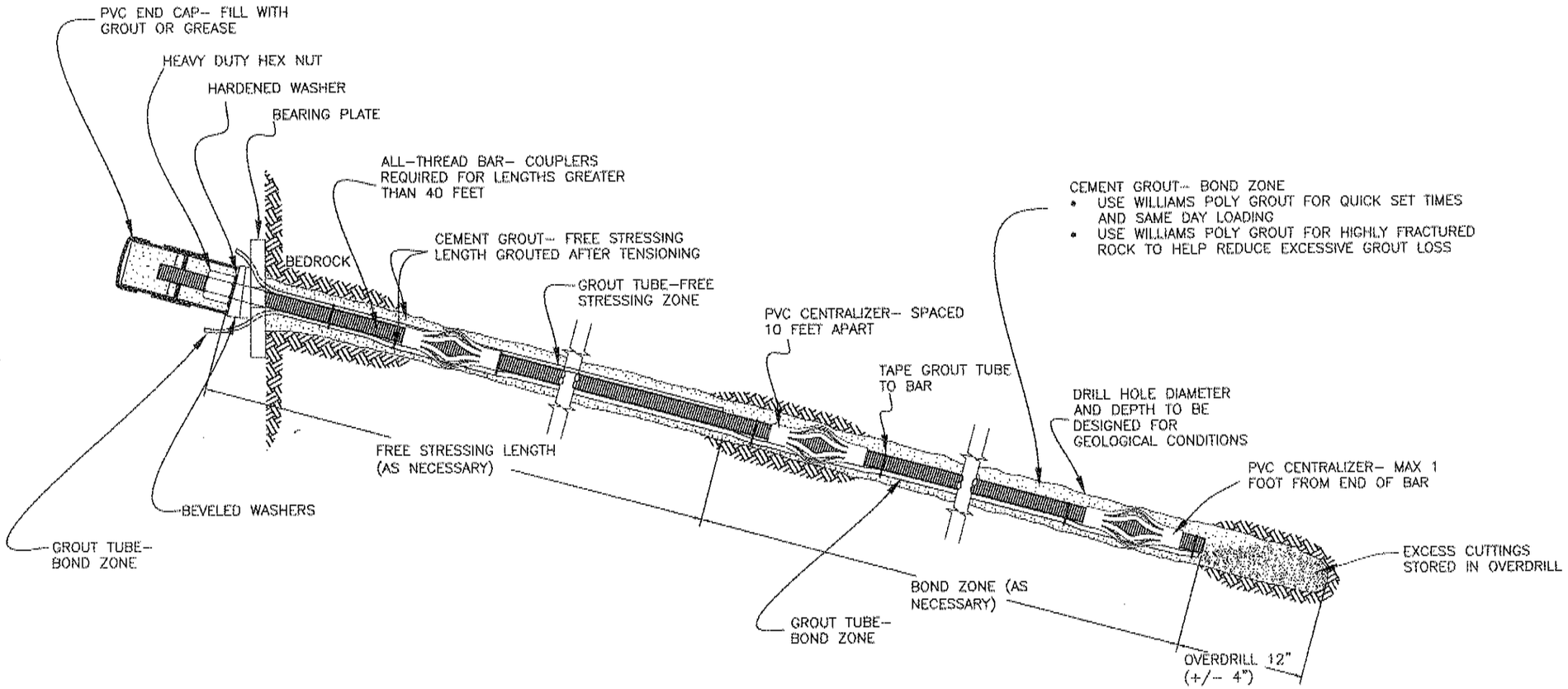
HAINES HIGHWAY
MP 3.5 TO MP 12
PROJECT #68606

MISCELLANEOUS DETAILS

PATH: S:\LIB\D99119 HNS DSN\050 DESIGN DRAWINGS\PLAN SET MP 3.5-12\J SHEETS\J1 J8 MISC DETS.DWG
TAB: J4 Monday, May 13, 2013 8:39:08 PM HOBBS, NAOMI

PIH 05/10/13

REVISIONS NO.	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			68606	2013	J4	93



ROCK BOLT NOTES

MATERIALS:

- ROCK BOLTS ARE DEFINED AS TENSION BARS, GROUTED FULL LENGTH IN TWO STAGES TO PROVIDE A BOND ZONE AND A FREE STRESS ZONE.
- USE 1-INCH DIAMETER, 75 KSI STEEL, GALVANIZED, ALL-THREAD BARS WITH MINIMUM ULTIMATE STRENGTH OF 75 KIPS AND MINIMUM YIELD STRENGTH OF 55 KIPS.
- BARS MAY BE PROVIDED IN 40-50 FOOT LENGTHS AND CUT TO SIZE ON SITE. THE USE OF COUPLERS IS ALLOWED TO JOIN TWO BARS. JOINING MORE THAN TWO BARS TOGETHER REQUIRES APPROVAL BY THE ENGINEER.
- ALL BARS SHALL MEET THE REQUIREMENTS OF ASTM A615.
- USE 8" x 8" DOUBLE KEY HOLE, GALVANIZED, BEARING PLATES SUPPLIED BY THE ROCK BOLT MANUFACTURER.
- ALL STEEL ACCESSORIES SHALL BE GALVANIZED.
- CEMENT GROUT SHALL HAVE A MINIMUM STRENGTH OF 3000 PSI AT THE TIME THE ANCHOR IS STRESSED.

INSTALLATION:

- ALL ROCK BOLT LOCATIONS, ROCK BOLT LENGTHS, BOND ZONE LENGTHS, AND DRILL HOLE ORIENTATION WILL BE PROVIDED BY THE REGIONAL ENGINEERING GEOLOGIST UPON REQUEST OF THE PROJECT ENGINEER.
- OVERDRILL HOLES ONE FOOT TO ALLOW DRILL CUTTINGS TO SETTLE.
- DRILL HOLE DIAMETER SHALL BE AT LEAST 2 INCHES GREATER THAN THE BAR DIAMETER TO ALLOW FOR A MINIMUM OF 1-INCH OF GROUT ENCAPSULATION. FOR 1-INCH DIAMETER BARS A MINIMUM 3-INCH DIAMETER HOLE IS REQUIRED.
- PROBE DRILL HOLE PRIOR TO INSERTING THE ASSEMBLED ROCK BOLT TO INSURE HOLE IS CLEAR TO THE REQUIRED DEPTH.
- FINISHED ROCK BOLTS SHALL NOT EXTEND MORE THAN 6-INCHES BEYOND THE BEARING PLATE.
- PRIMARY GROUTING OF THE CALCULATED BOND ZONE SHOULD BE COMPLETED AS SOON AS POSSIBLE AFTER THE ROCK BOLT IS INSTALLED. GROUT HOLES FROM THE BOTTOM. LEAVE THE ROCK BOLT UNDISTURBED UNTIL THE GROUT HAS CURED. SOME METHOD OF VERIFYING THE LEVEL OF THE PRIMARY GROUT MUST BE PROVIDED.
- THE PRIMARY GROUT SHALL BE LEFT FOR A MINIMUM OF THREE DAYS BEFORE THE ROCK BOLT CAN BE TENSIONED. THIS PERIOD MAY BE MODIFIED BASED ON THE RESULTS OF GROUT CUBE TESTING. MAKING GROUT CUBES IS OPTIONAL AND WILL BE DONE AT THE DIRECTION OF THE PROJECT ENGINEER.
- INSTALL FINISHING HARDWARE INCLUDING THE BEARING PLATE, WASHERS, AND HEX NUT. TORQUE THE ROCK BOLT ACCORDING TO THE MANUFACTURER'S WRITTEN RECOMMENDATIONS.
- SECONDARY GROUTING TO FILL THE FREE STRESSING LENGTH SHALL BE COMPLETED AFTER THE ANCHOR HAS BEEN LOCKED OFF AT THE DESIGN LOAD. AFTER GROUTING IS COMPLETED CUT GROUT TUBES OFF FLUSH WITH WITH THE BEARING PLATE AND CLEAN EXCESS GROUT OFF THE ROCK SLOPE.

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

CHECKED BY: K. SUCHODOLSKI

STATE OF ALASKA – 49th – STEVEN K. NOBLE – CE-10651 – REGISTERED PROFESSIONAL ENGINEER

DESIGNED BY: S. NOBLE

DRAWN BY: N. HOBBS

PATH: S:\LIB\D59110 HNS DSN\030 DESIGN DRAWINGS\PLAN SET MP 3.5-12\J SHEETS\J1-J6 MISC DETS.DWG

TAB: J5 Monday, May 13, 2013 5:39:12 PM HOBBS, NAOMI

PIH 05/10/13

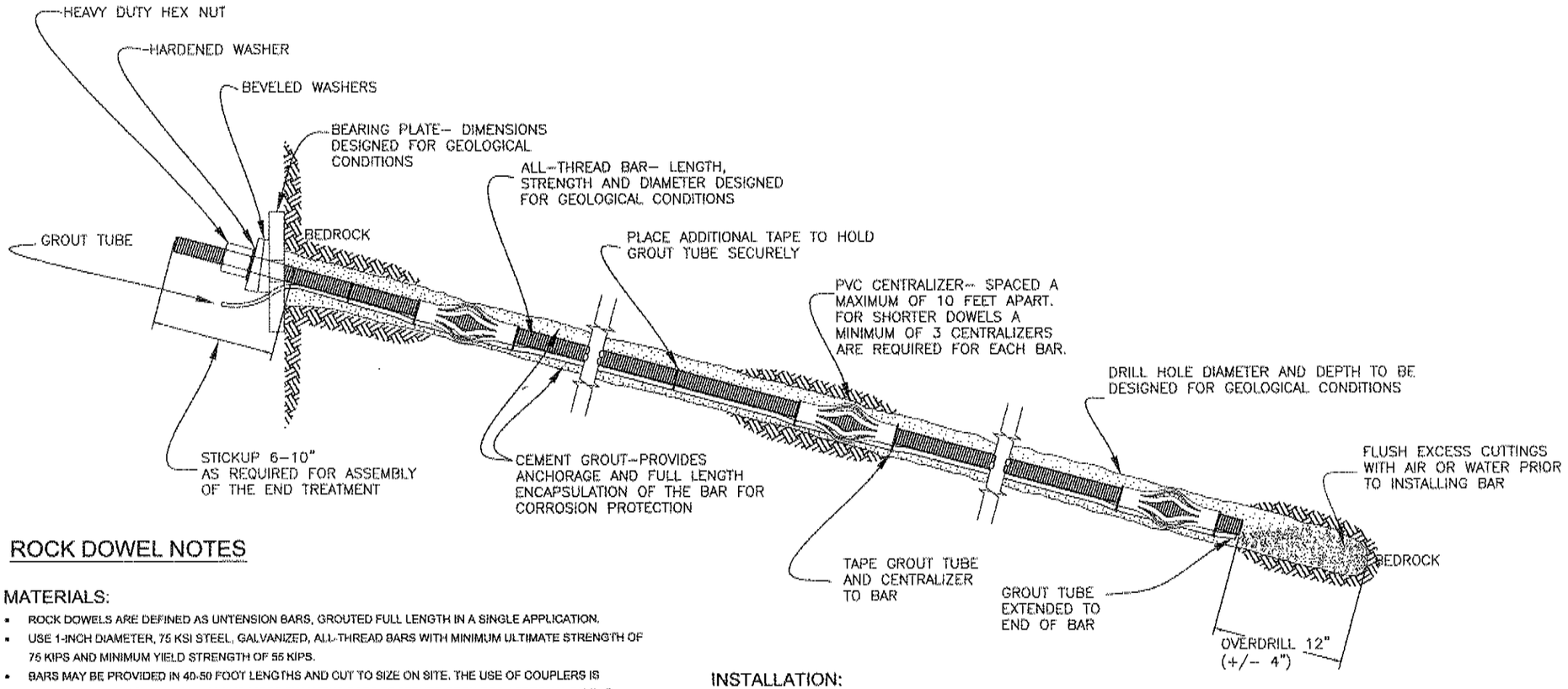
REVISIONS NO.	DATE	DESCRIPTION

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SOUTHEAST REGION

HAINES HIGHWAY
MP 3.5 TO MP 12
PROJECT #68606

MISCELLANEOUS DETAILS

PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
68606	2013	J5	93



ROCK DOWEL NOTES

MATERIALS:

- ROCK DOWELS ARE DEFINED AS UNTENSION BARS, GROUTED FULL LENGTH IN A SINGLE APPLICATION.
- USE 1-INCH DIAMETER, 75 KSI STEEL, GALVANIZED, ALL-THREAD BARS WITH MINIMUM ULTIMATE STRENGTH OF 75 KIPS AND MINIMUM YIELD STRENGTH OF 55 KIPS.
- BARS MAY BE PROVIDED IN 40-50 FOOT LENGTHS AND CUT TO SIZE ON SITE. THE USE OF COUPLERS IS ALLOWED TO JOIN TWO BARS. JOINING MORE THAN TWO BARS TOGETHER REQUIRES APPROVAL BY THE ENGINEER.
- ALL BARS SHALL MEET THE REQUIREMENTS OF ASTM A615.
- USE 8" x 8" DOUBLE KEY HOLE, GALVANIZED, BEARING PLATES SUPPLIED BY THE ROCK DOWEL MANUFACTURER.
- ALL STEEL ACCESSORIES SHALL BE GALVANIZED.
- CEMENT GROUT SHALL HAVE A MINIMUM STRENGTH OF 3000 PSI AT THE TIME THE ANCHOR IS STRESSED.

INSTALLATION:

- ALL ROCK DOWEL LOCATIONS, ROCK DOWEL LENGTHS, AND DRILL HOLE ORIENTATION WILL BE PROVIDED BY THE REGIONAL ENGINEERING GEOLOGIST UPON REQUEST OF THE PROJECT ENGINEER.
- OVERDRILL HOLES ONE FOOT TO ALLOW DRILL CUTTINGS TO SETTLE.
- DRILL HOLE DIAMETER SHALL BE AT LEAST 2 INCHES GREATER THAN THE BAR DIAMETER TO ALLOW FOR A MINIMUM OF 1-INCH OF GROUT ENCAPSULATION. FOR 1-INCH DIAMETER BARS A MINIMUM 3-INCH DIAMETER HOLE IS REQUIRED.
- PROBE DRILL HOLE PRIOR TO INSERTING THE ASSEMBLED ROCK DOWEL TO INSURE HOLE IS CLEAR TO THE REQUIRED DEPTH.
- FINISHED ROCK DOWELS SHALL NOT EXTEND MORE THAN 6-INCHES BEYOND THE BEARING PLATE.
- GROUTING SHOULD BE COMPLETED AS SOON AS POSSIBLE AFTER THE ROCK DOWEL IS INSTALLED. GROUT HOLES FROM THE BOTTOM. LEAVE THE ROCK DOWEL UNDISTURBED UNTIL THE GROUT HAS CURED.
- INSTALL FINISHING HARDWARE INCLUDING THE BEARING PLATE, WASHERS, AND HEX NUT. TIGHTEN THE NUT TO THE MANUFACTURER'S WRITTEN RECOMMENDATIONS.

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

CHECKED BY: K. SLICHOOLSKI

STATE OF ALASKA 49th STEVEN K. NOBLE CE-10051 REGISTERED PROFESSIONAL ENGINEER

DESIGNED BY: B. NOBLE

DRAWN BY: N. HOBBS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SOUTHEAST REGION

HAINES HIGHWAY
MP 3.5 TO MP 12
PROJECT #68606

MISCELLANEOUS DETAILS

PATH: S:\LIBD59119 HNG DSN060 DESIGN DRAWINGS\PLAN SET MP 3.5-12\J SHEETS\J1-J8 MISC DETS.DWG

TAB: J8 Monday, May 13, 2013 5:39:15 PM HOBBS, NAOMI

PIH 05/16/13

REVISIONS NO.	DATE	DESCRIPTION

PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
68606	2013	J6	93

ROCK STABILIZATION DETAILS
STATION 426+00

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

CHECKED BY: K. SUCHODOLSKI

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION

HAINES HIGHWAY
MP 3.5 TO MP 12
PROJECT #68606

MISCELLANEOUS DETAILS

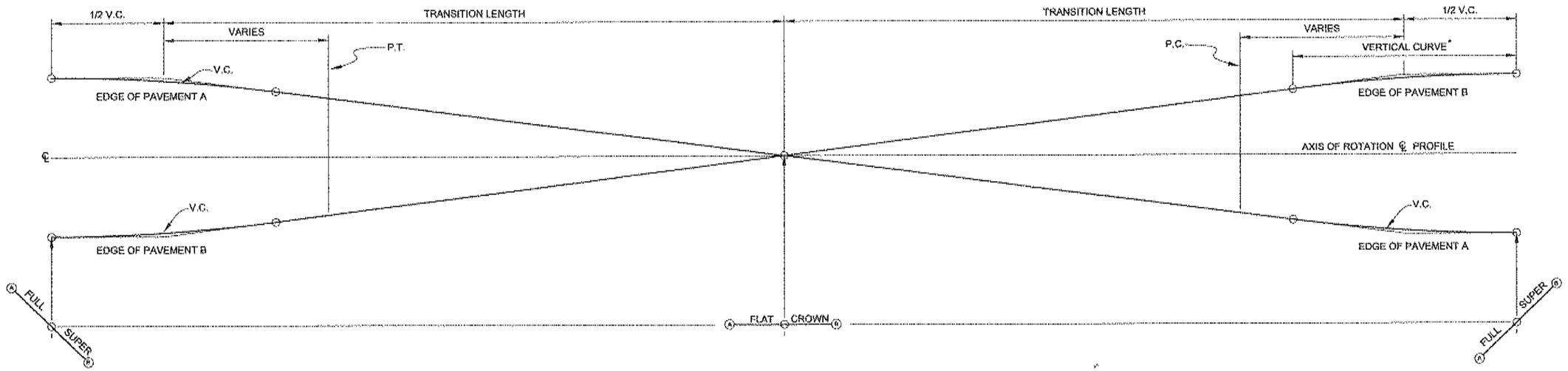
DESIGNED BY: S. NOBLE
DRAWN BY: N. HOBBS

PATH: S:\LIB\DS\68119 HNS DSN\050 DESIGN DRAWINGS\PLAN SET MP 9.5-12\J SHEETS\J1-J8 MISC DETS.DWG
TAB: J7 Monday, May 13, 2013 5:39:16 PM HOBBS, NAOMI

REVISIONS		
NO.	DATE	DESCRIPTION

PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
68606	2013	J7	93

* SEE GENERAL NOTE 4



GENERAL NOTES

1. THIS SUPERELEVATION TRANSITION IS TO BE USED WHEN ADJACENT CURVES SHOW A "FLAT" STATION. CURVES WITH A BST/EST STATION SHALL HAVE THEIR SUPERELEVATION TRANSITION FOLLOW CASE I OF STANDARD DRAWING I-81.00.
2. LOCATION OF TRANSITION LENGTH RELATIVE TO HORIZONTAL CURVES IS SHOWN ON THE PLANS.
3. WIDENING FOR GUARDRAIL OR CURVATURE WILL NOT CHANGE THE LOCATION OF THE AXIS OF ROTATION.
4. MINIMUM VERTICAL CURVE (V.C.) LENGTH IN FEET SHALL BE THE NUMERICAL VALUE OF THE DESIGN SPEED IN MPH.
5. SUPERELEVATION SHALL BE BUILT INTO THE SUBGRADE AND CARRIED THROUGH THE SHOULDERS.

SUPERELEVATION TRANSITION WITHOUT RETURNING TO NORMAL CROWN

FOR CURVES WITH A "FLAT" TRANSITION STATION

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

CHECKED BY: K. SUCHODOLSKI

STATE OF ALASKA
4910
STEVEN K. NOBLE
GE-10051
REGISTERED PROFESSIONAL ENGINEER

DESIGNED BY: S. NOBLE
DRAWN BY: N. HOBBS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION

HAINES HIGHWAY
MP 3.5 TO MP 12
PROJECT #68606

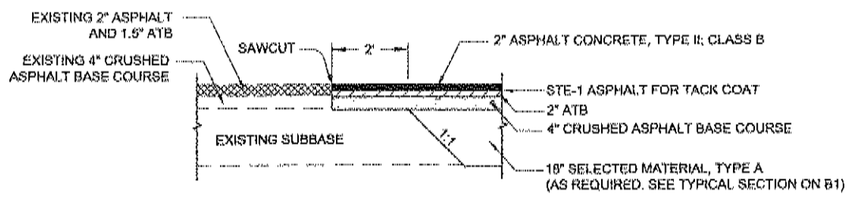
MISCELLANEOUS DETAILS

PATH: S:\LIB\0059119 HNS DSN\050 DESIGN DRAWINGS\PLAN SET MP 3.5-12\J SHEETS\J1-J8 MISC DETS.DWG
TAB: J8 Monday, May 13, 2013 6:39:16 PM HOBBS, NAOMI

PIH 05/15/13

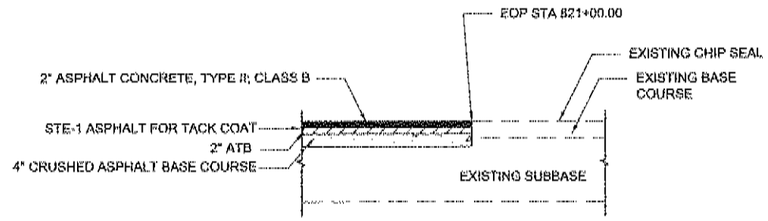
REVISIONS		
NO.	DATE	DESCRIPTION

PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
68606	2013	J8	93



PAVEMENT MATCH JOINT DETAIL

BEGINNING OF PROJECT



PAVEMENT MATCH JOINT DETAIL

END OF PROJECT

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

CHECKED BY: K. SUCHODOLSKI

STATE OF ALASKA 49th STEVEN K. NOBLE CE-10081 REGISTERED PROFESSIONAL ENGINEER

DESIGNED BY: S. NOBLE

DRAWN BY: N. HOBBS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION

HAINES HIGHWAY
MP 3.5 TO MP 12
PROJECT #68606

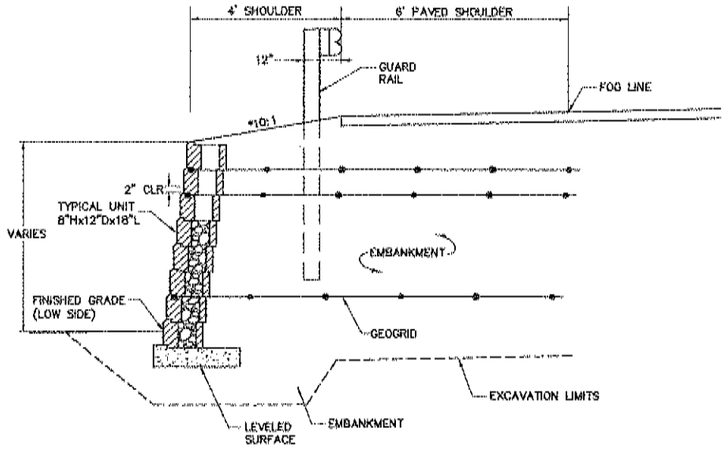
MISCELLANEOUS DETAILS

PATH: S:\LIBD\59110 HNS DSN\060 DESIGN DRAWINGS\PLAN SET MP 3.5-12\J SHEETS\J1-J8 MISC DETS.DWG

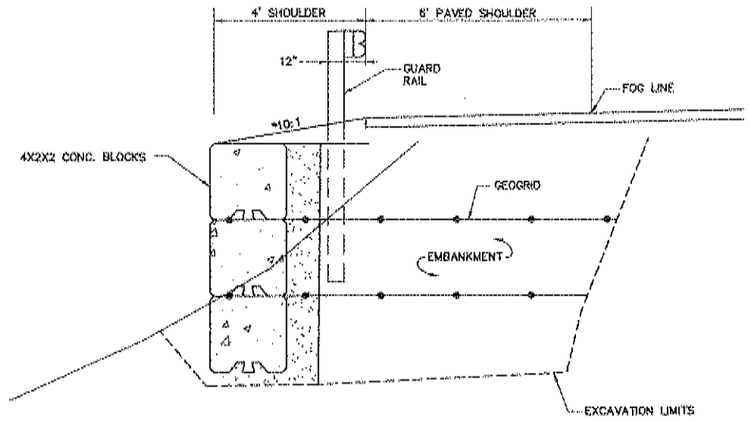
TAB: J9 Monday, May 13, 2013 5:39:20 PM HOBBS, NAOMI

PH 05/16/13

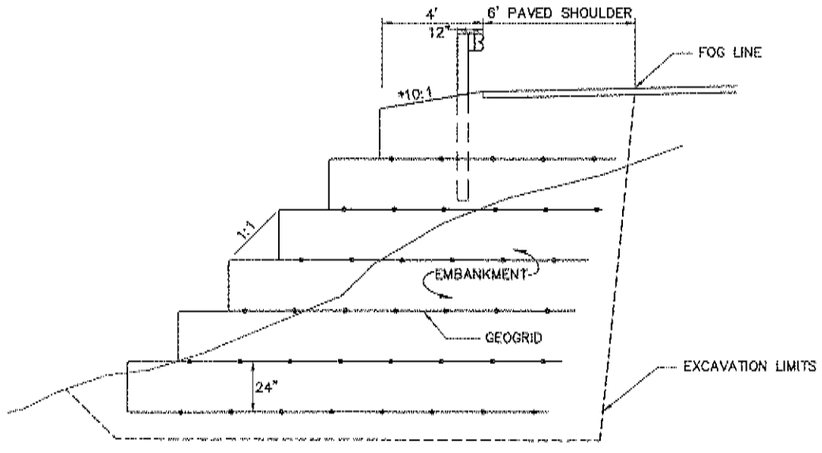
REVISIONS NO.	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			68606	2013	J9	93



MSE RETAINING WALL



CONCRETE BLOCK WALL



REINFORCED SOIL SLOPE

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

CHECKED BY: K. KILPATRICK

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION

STATE OF ALASKA 49th STEVEN K. NOBLE CE-10061 REGISTERED PROFESSIONAL ENGINEER

HAINES HIGHWAY
MP 3.5 TO MP 12
PROJECT #68606

WALL DETAILS

DESIGNED BY: S. NOBLE
DRAWN BY: N. HOBBS

PATH: S:\LIBD\69119 HNS OBN050 DESIGN DRAWINGS\PLAN SET MP 3.5-12N SHEETS\69119 WALLS.DWG
TAB: N1 Wednesday, May 15, 2013 3:50:41 PM HOBBS, NAOMI

PH 05/15/13

REVISIONS NO.	DATE	DESCRIPTION

PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
68606	2013	N1	93

TRAFFIC CONTROL NOTES

1. IT IS THE INTENT OF THIS TRAFFIC CONTROL PLAN (TCP) TO ILLUSTRATE SOME BUT NOT ALL OF THE TRAFFIC CONTROL CONFIGURATIONS THAT WILL BE REQUIRED BY THIS PROJECT. TRAFFIC CONTROL PLANS FOR CONFIGURATIONS NOT COVERED BY THIS TCP SHALL BE DEVELOPED AND SUBMITTED FOR APPROVAL BY THE ENGINEER PRIOR TO USE.
2. TWO LANES SHALL BE MAINTAINED AT ALL TIMES THE CONTRACTOR IS NOT ACTIVELY WORKING. FLAGGERS MUST BE PRESENT FOR ANY LANE CLOSURES. FLAGGER STATIONS MUST BE ILLUMINATED AT NIGHT.
3. TEMPORARY TRAFFIC LANES SHALL BE A MINIMUM OF 10 FEET WIDE.
4. MAXIMUM LENGTH OF ONE-LANE ROAD CLOSURE IS 1000 FEET.
5. CONSTRUCTION SIGNING SHALL BE IN PLACE ONLY WHEN THE CONDITIONS EXIST FOR WHICH THE SIGNS ARE INTENDED. CONSTRUCTION SIGNS SHALL BE PLACED SUCH THAT THEY DO NOT OBSCURE EXISTING TRAFFIC SIGNS.
6. THE UNEVEN LANES (CW8-11) SIGN SHOULD BE USED DURING OPERATIONS THAT CREATE A DIFFERENCE IN ELEVATION OF 1.5 INCHES OR GREATER BETWEEN ADJACENT LANES.
7. WORK ZONE DOUBLE TRAFFIC FINES SIGNS SHALL BE USED AS DIRECTED BY THE ENGINEER AND PER STANDARD DRAWING C-04.12.
8. WARNING LIGHTS SHALL BE USED ON ALL CHANNELIZING DEVICES PLACED ALONG OR AROUND ROADWAY HAZARDS AS DIRECTED BY THE ENGINEER.
9. KEEP THE PUBLIC INFORMED OF CONSTRUCTION ACTIVITIES. SEE SECTION 643-3.03 OF THE SPECIAL PROVISIONS.
10. ALL TRAFFIC CONTROL PLANS SUBMITTED BY THE CONTRACTOR SHALL BE NUMBERED. ALL TRAFFIC CONTROL PLANS THAT USE A TYPICAL APPLICATION AS DESCRIBED IN THE MUTCD SHALL REFERENCE THE TYPICAL APPLICATION. EXAMPLE: TCP 3, MUTCD TA-10.
11. TRAFFIC DELAYS SHALL NOT EXCEED 15 MINUTES UNLESS APPROVED BY THE ENGINEER.
12. WHEN ROAD CLOSURES ARE REQUIRED FOR BLASTING EVENTS AND RELATED WORK, THEY SHALL NOT BE LONGER THAN 2 HOURS IN DURATION.
13. SEE SECTION 201-3.01 OF THE SPECIAL PROVISIONS FOR LIMITATIONS ON PAVEMENT REMOVAL AND REPAVING. REPAVED SECTIONS REQUIRE INTERIM PAVEMENT MARKINGS PER SECTION 643-3.09 OF THE SPECIFICATIONS.
14. ALL PAVED SECTIONS OF ROADWAY SHALL BE SWEPT CLEAN BEFORE OPENING TO TRAFFIC.

TCP LEGEND

- SIGN
- CONE
- DRUM
- TYPE III BARRICADE
- FLAGGING STATION
- HI-LEVEL WARNING DEVICE

FORMULAS FOR L (TAPER LENGTH)

40 MPH OR LESS $L = \frac{W \times S^2}{60}$

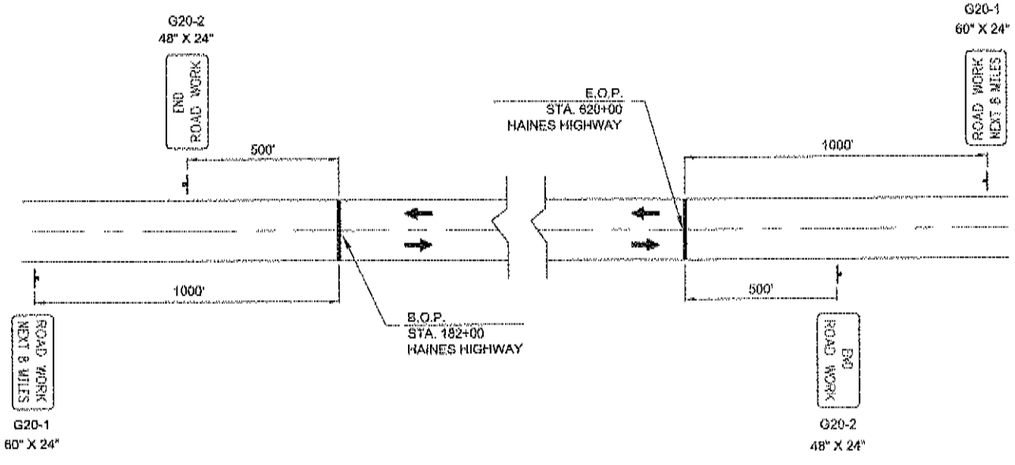
45 MPH OR GREATER $L = W \times S$

WHERE W= WIDTH OF OFFSET

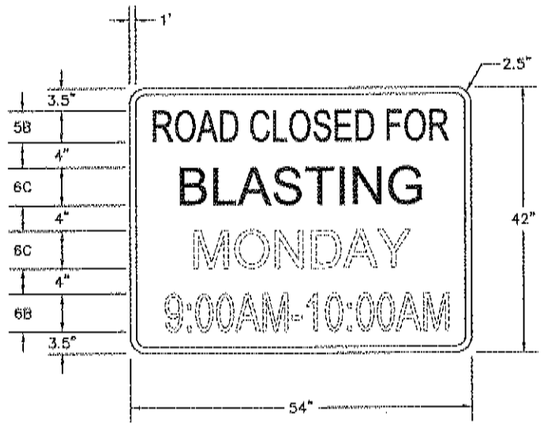
S= POSTED SPEED LIMIT OR ANTICIPATED OPERATING SPEED

MAXIMUM DRUM OR CONE SPACING = S (IN FEET) FOR TAPERS
= 2S (IN FEET) FOR TANGENTS

MIN. BUFFER	
S	LENGTH
20	115
25	115
30	200
35	250
40	305
45	360
50	425
55	495
60	570
65	645



PERMANENT CONSTRUCTION SIGNING



SIGN FOR 48 HOUR ADVANCED NOTICE OF BLASTING

SIGNS SHALL BE ORANGE BACKGROUND WITH BLACK BORDER AND TEXT. SIGNS SHALL INCLUDE THE DAY OF CLOSURE, BEGINNING TIME OF CLOSURE, AND EXPECTED TIME THE ROAD WILL REOPEN. SIGNS SHALL BE IN PLACE A MINIMUM OF 48 HOURS PRIOR TO ROAD CLOSURE. REMOVABLE PANELS MAY BE USED TO CHANGE THE DAY AND TIME. SIGN LETTERING IS DESIGNATED BY SIZE AND FHWA "SERIES 2000" LETTER SERIES. (EG "6C" MEANS A LETTER HEIGHT OF 6 INCHES WITH A SERIES C WIDTH)

PIH
05/16/13

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

CHECKED BY: K. KILPATRICK

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SOUTHEAST REGION

STATE OF ALASKA 49th STEVEN K. NOBLE CE-10661 REGISTERED PROFESSIONAL ENGINEER

HAINES HIGHWAY
MP 3.5 TO MP 12
PROJECT #68606

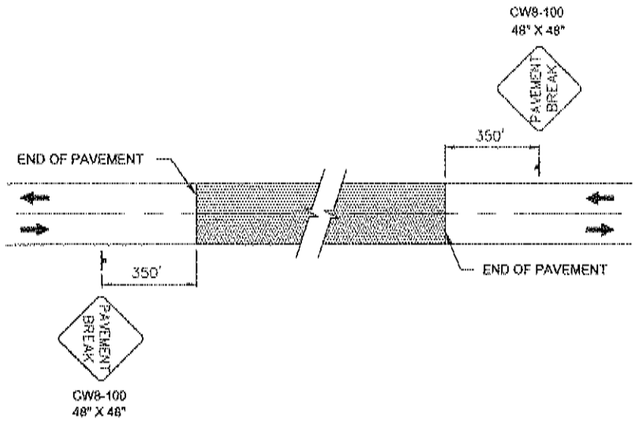
DESIGNED BY: S. NOBLE
DRAWN BY: N. HOBBS

TRAFFIC CONTROL PLAN

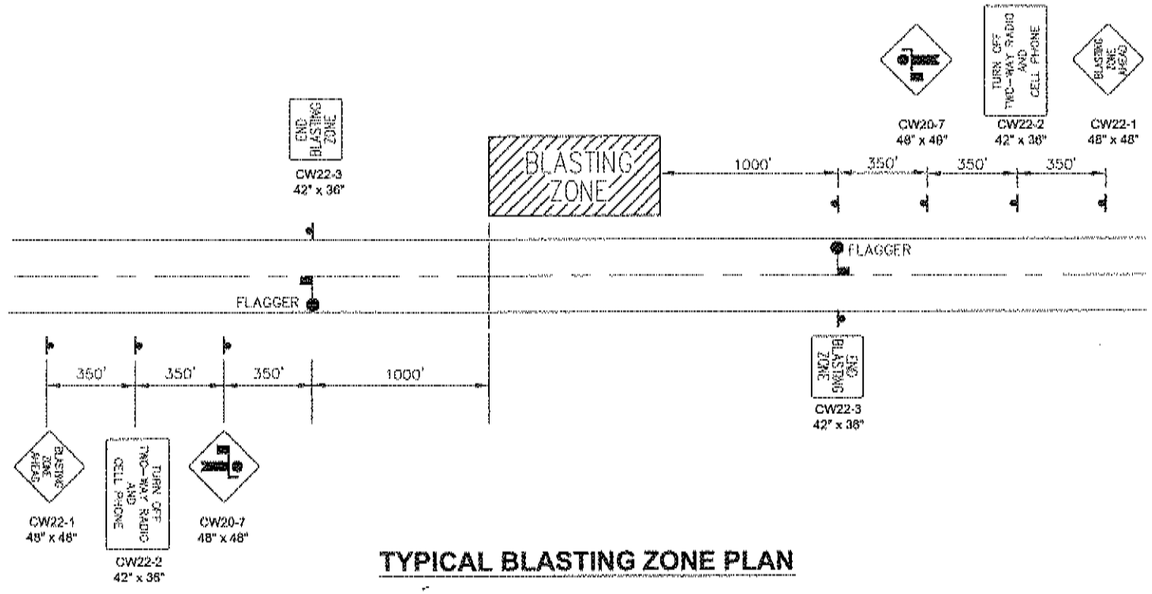
PATH: S:\LIB\D59119 HNS DSN050 DESIGN DRAWINGS\PLAN SET MP 3.5-12\S SHEETS\S SHEETS.DWG
TAB: S1 Wednesday, May 15, 2013 12:48:16 PM KEMP, JENNIFER

REVISIONS		
NO.	DATE	DESCRIPTION

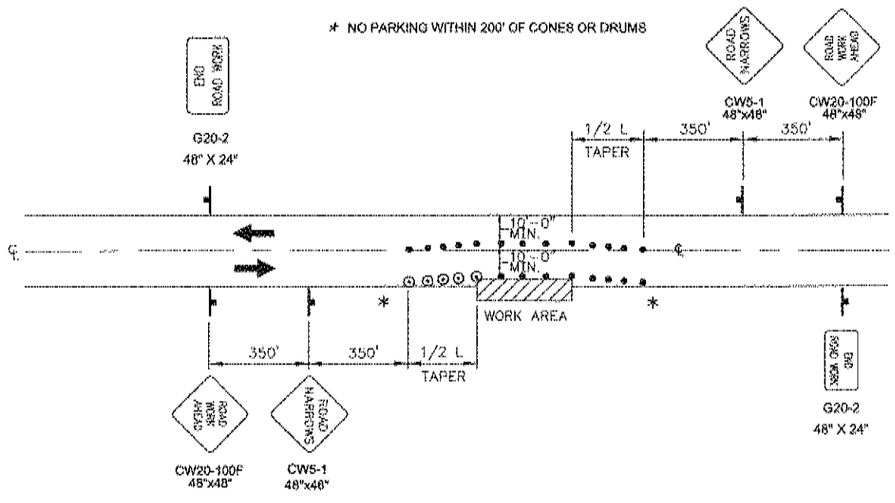
PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
68606	2013	S1	93



SIGNING FOR UNPAVED AREA

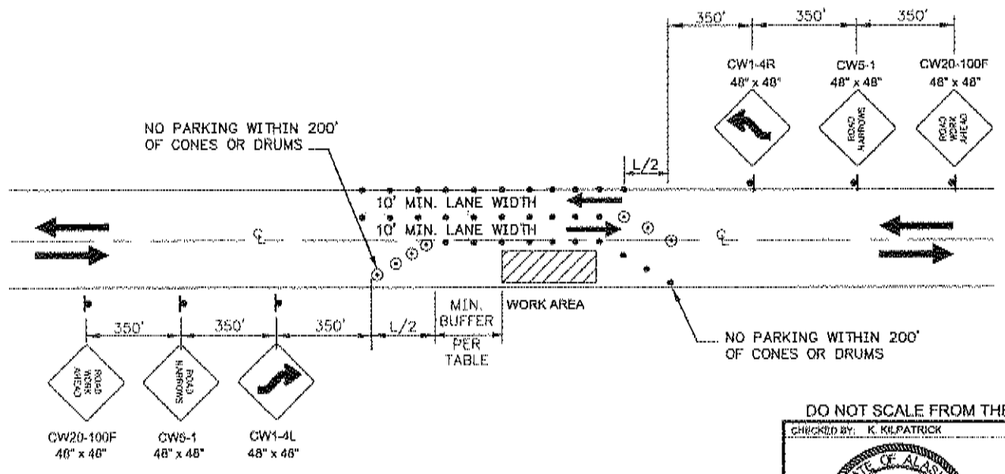


TYPICAL BLASTING ZONE PLAN



ROADWAY ENCROACHMENT

NOTE:
IF ONLY ONE LANE IS AFFECTED BY ROAD WORK (THAT IS, THE CONES ALONG THE WORK AREA ARE NO CLOSER THAN 10' TO CENTERLINE) THE CENTERLINE CONES FOR THE OPPOSING LANE SHALL BE DELETED.



TWO-WAY TRAFFIC

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

CHECKED BY: K. KILPATRICK

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION

HAINES HIGHWAY
MP 3.5 TO MP 12
PROJECT #68606

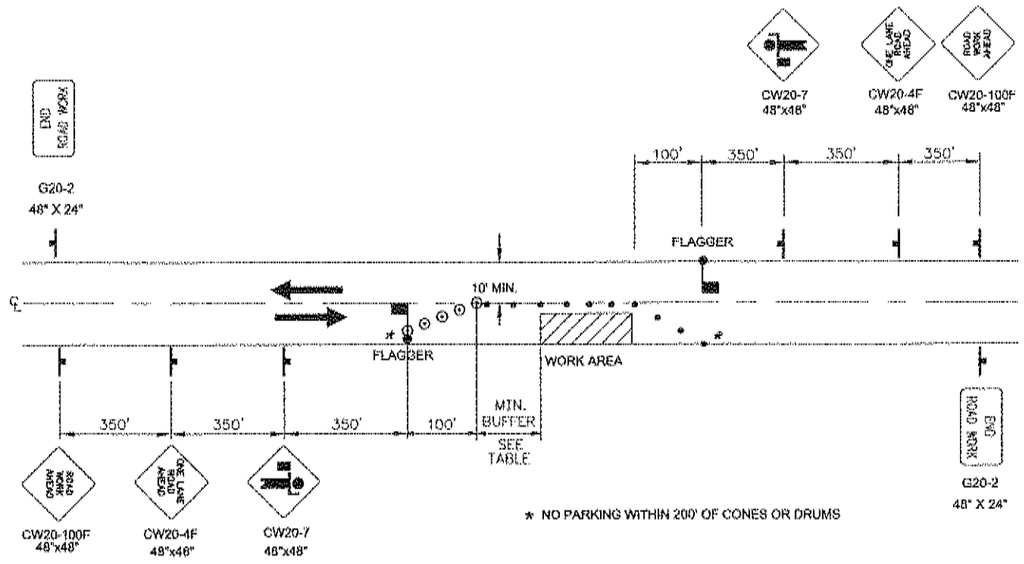
DESIGNED BY: S. NOBLE
DRAWN BY: N. HOBBS

TRAFFIC CONTROL PLAN

PATH: S:\ALIB\D68119 HNS DSN\050 DESIGN DRAWINGS\PLAN SET MP 3.5-12\S SHEETS\S SHEETS.DWG
TAB: S2 Wednesday, May 15, 2013 12:46:17 PM KEMP, JENNIFER

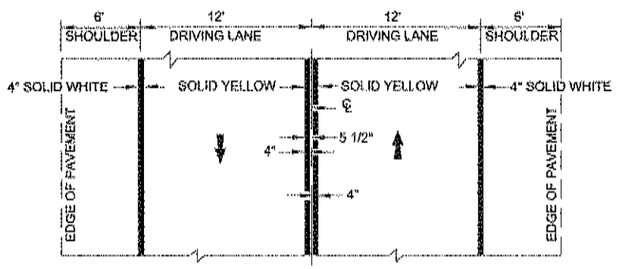
REVISIONS		
NO.	DATE	DESCRIPTION

PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
68606	2013	S2	93

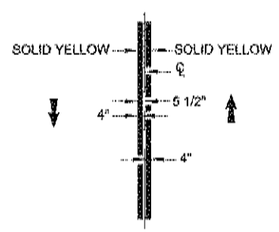


TWO LANE ROAD - SINGLE LANE CLOSURE

DOUBLE FLAGGER



STRIPING DETAIL



INTERIM PAVEMENT MARKINGS DETAIL

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

CHECKED BY: K. KILPATRICK

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION

HAINES HIGHWAY
MP 3.5 TO MP 12
PROJECT #68606

TRAFFIC CONTROL PLAN

DESIGNED BY: S. NOBLE
DRAWN BY: N. HOBBS

PATH: S:\JOB\D59119 HWS DSN\050 DESIGN DRAWINGS\PLAN SET MP 3.5-12\S SHEETS\S SHEETS.DWG
TAB: S3 Wednesday, May 15, 2013 12:46:18 PM KEMP, JENNIFER

REVISIONS NO.	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			68606	2013	S3	93

05/16/13