



DEPARTMENT OF THE ARMY
ALASKA DISTRICT, U.S. ARMY CORPS OF ENGINEERS
REGULATORY DIVISION
WESTSIDE BUSINESS PARK
2175 UNIVERSITY AVENUE, SUITE 201E
FAIRBANKS, ALASKA 99709-4927

August 16, 2018

Regulatory Division
POA-2013-00050-M1

Department of Public Transportation and Public Facilities
Northern Region Design and Engineering Services
Attention: Mr. Brett Nelson
2301 Peger Road
Fairbanks, Alaska 99709

Dear Mr. Brett Nelson:

Enclosed is the signed Department of the Army (DA) permit modification, file number POA-2013-00050-M1, Yukon River. This is the 1st permit modification of the original permit. Also enclosed is a Notice of Authorization that should be posted in a prominent location near the authorized work.

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

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

Please contact me via email at amy.c.tippery@usace.army.mil, by mail at the address above or by phone at (907) 474-2166 if you have questions. For more information about the Regulatory program, please visit our website at www.poa.usace.army.mil/Missions/Regulatory.

Sincerely,


Amy Tippery
Regulatory Specialist

Enclosures

CF: Applicant - brett.nelson@alaska.gov



DEPARTMENT OF THE ARMY
ALASKA DISTRICT, U.S. ARMY CORPS OF ENGINEERS
REGULATORY DIVISION
WESTSIDE BUSINESS PARK
2175 UNIVERSITY AVENUE, SUITE 201E
FAIRBANKS, ALASKA 99709-4927

August 16, 2018

Regulatory Division
POA-2013-00050-M1

DEPARTMENT OF THE ARMY
PERMIT MODIFICATION

This permit authorized the discharge of 99,895 cubic yards of fill into 34.6 acres of waters of the United States U.S.), including wetlands, to upgrade the last two miles of the existing Tofty Road and 14.5 miles of the existing roads and trails that extend past the current terminus of Tofty Road (beginning at approximately mile post 15). The work includes the installation of a new bridge at Boulder Creek (#2297), and the construction of 19.34 miles of new road beginning at mile post 29.5. The project also includes the placement of fill for the expansion of two existing material sites and the creation of five new material sites. All work will be performed in accordance with the original plans (sheets 1 – 122), dated December 21, 2013 and February 2013; and the Supplemental Information, pages 1 – 22.

The project is located within multiple Township, Range and Sections, Fairbanks Meridian; USGS Quad Map Tanana A-2, A-3 and A-4; the project starts near Manley Hot Springs, Alaska at Latitude 65.089142° N., Longitude 150.825793° W.; and ends near Tanana, Alaska, at Latitude 65.195665° N., Longitude 151.838842 W.

In accordance with your request, General Condition No. 1 of the permit is hereby amended to read as follows:

The time limit for completing the work authorized ends on **August 30, 2023**. If you find that you need more time to complete the authorized activity, please submit your request for a time extension to the Corps of Engineers for consideration at least one month before permit expiration.

The original special conditions for this permit remain unaltered. All other conditions under which the subject authorization was made remain in full force and effect.

This authorization should be attached to the original permit. Also enclosed is a Notice of Authorization that should be posted in a prominent location near the authorized work.

BY AUTHORITY OF THE SECRETARY OF THE ARMY:

A handwritten signature in black ink, appearing to read 'Amy Tippery', written in a cursive style.

Amy Tippery
Regulatory Specialist



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

**United States Army Corps of Engineers
YUKON RIVER**

A permit to: THIS PERMIT AUTHORIZED THE DISCHARGE OF 99,895 CUBIC YARDS OF FILL INTO 34.6 ACRES OF WATERS OF THE U.S., INCLUDING WETLANDS, TO UPGRADE THE LAST TWO MILES OF THE EXISTING TOFTY ROAD AND 14.5 MILES OF THE EXISTING ROADS AND TRAILS THAT EXTEND PAST THE CURRENT TERMINUS OF TOFTY ROAD (BEGINNING AT APPROXIMATELY MILE POST 15). THE WORK INCLUDES THE INSTALLATION OF A NEW BRIDGE AT BOULDER CREEK (#2297), AND THE CONSTRUCTION OF 19.34 MILES OF NEW ROAD BEGINNING AT MILE POST 29.5. THE PROJECT ALSO INCLUDES THE PLACEMENT OF FILL FOR THE EXPANSION OF TWO EXISTING MATERIAL SITES AND THE CREATION OF FIVE NEW MATERIAL SITES.

at: THE PROPOSED PROJECT IS LOCATED WITHIN MULTIPLE TOWNSHIP, RANGE AND SECTIONS, FAIRBANKS MERIDIAN; USGS QUAD MAP TANANA A-2, A-3 AND A-4; THE PROJECT STARTS NEAR MANLEY HOT SPRINGS, ALASKA AT LATITUDE 65.089142° N., LONGITUDE 150.825793° W.; AND ENDS NEAR TANANA, ALASKA, AT LATITUDE 65.195665° N., LONGITUDE 151.838842 W.

has been issued to: THE ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES, NORTHERN REGION.

on: AUGUST 16, 2018 and expires on: AUGUST 30, 2023

Address of Permittee:

DEPARTMENT OF PUBLIC TRANSPORTATION AND PUBLIC FACILITIES, 2301 PEGER ROAD, FAIRBANKS, ALASKA 99709

Permit Number:

POA-2013-00050-M1

**FOR: *District Commander*
Amy Tippery
REGULATORY SPECIALIST
REGULATORY DIVISION**



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

**United States Army Corps of Engineers
YUKON RIVER**

A permit to: DISCHARGE 99,895 CUBIC YARDS OF FILL INTO 34.6 ACRES OF WATERS OF THE UNITED STATES, INCLUDING WETLANDS, TO UPGRADE THE LAST TWO MILES OF THE EXISTING TOFTY ROAD AND 14.5 MILES OF THE EXISTING ROADS AND TRAILS THAT EXTEND PAST THE CURRENT TERMINUS OF TOFTY ROAD, (BEGINNING AT APPROXIMATELY MILE POST 15). THE WORK WOULD INCLUDE THE INSTALLATION OF A NEW BRIDGE AT BOULDER CREEK (#2297), THE CONSTRUCTION OF 19.34 MILES OF NEW ROAD BEGINNING AT MILE POST 29.5, THE EXPANSION OF TWO MATERIAL SITES, AND THE CREATION OF FIVE NEW MATERAIL SITES.

at: BEGIN AT LONGITUDE 150.825793° W.; AND END NEAR TANANA, ALASKA, AT LATITUDE 65.195665° N., LONGITUDE 151.838842 W.

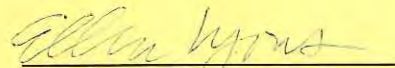
has been issued to: ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

on: SEPTEMBER 25, 2013 and expires on: SEPTEMBER 30, 2018

Address of Permittee: 2301 PEGER ROAD, FAIRBANKS, ALASKA 99709

Permit Number:

POA-2013-50


**FOR: District Commander
Ellen Lyons
Project Manager
REGULATORY DIVISION**



REPLY TO
ATTENTION OF:

DEPARTMENT OF THE ARMY
ALASKA DISTRICT, U.S. ARMY CORPS OF ENGINEERS
REGULATORY DIVISION
WESTSIDE BUSINESS PARK
2175 UNIVERSITY AVENUE, SUITE 201E
FAIRBANKS, ALASKA 99709-4927

September 25, 2013

Regulatory Division
POA-2013-50

Mr. Brett Nelson
2301 Peger Road
Fairbanks, Alaska 99709

Dear Mr. Nelson,

Enclosed is the signed Department of the Army permit, file number POA-2013-50, Yukon River, which authorizes the discharge of 99,895 cubic yards of fill into 34.6 acres of waters of the United States (U.S.), including wetlands, to upgrade the last two miles of the existing Tofty Road and 14.5 miles of the existing roads and trails that extend past the current terminus of Tofty Road, (beginning at approximately mile post 15). The project is located within multiple Township, Range and Sections, Fairbanks Meridian; USGS Quad Map Tanana A-2, A-3 and A-4; the project starts near Manley Hot Springs, Alaska at Latitude 65.089142° N., Longitude 150.825793° W.; and ends near Tanana, Alaska, at Latitude 65.195665° N., Longitude 151.838842 W. Also enclosed is a Notice of Authorization which should be posted in a prominent location near the authorized work.

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

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

Please contact me via email at Ellen.H.Lyons@usace.army.mil, by mail at the address above, or by phone at (907) 474-2166, if you have questions.

Sincerely,

A handwritten signature in cursive script that reads "Ellen Lyons".

Ellen Lyons
Project Manager

Enclosures

DEPARTMENT OF THE ARMY PERMIT

Permittee: Alaska Department of Transportation and Public Facilities

Permit No.: POA-2013-50

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

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

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

Project Description: This permit authorizes the discharge of 99,895 cubic yards of fill into 34.6 acres of waters of the United States (U.S.), including wetlands, to upgrade the last two miles of the existing Tofty Road and 14.5 miles of the existing roads and trails that extend past the current terminus of Tofty Road, (beginning at approximately Mile Post 15). The work would include the installation of a new bridge at Boulder Creek (#2297), and the construction of 19.34 miles of new road beginning at Mile Post 29.5.

The proposed project also includes the expansion of two existing material sites; (Boulder Creek Material Site and Tofty Material Site), the creation of five new material sites, (Ridge Top, Bailey Creek Ridge, Bare Rock, Yukon Bluffs and Yukon River Material Sites), (Boulder Creek, Tofty, Ridge Top, Bare Rock, and Yukon Bluffs Material Sites contain waters of the U.S. that would be impacted by the proposed project; see Table 21.2, Discharge by Material Site on pages 8 and 9 of Supplemental Information), the installation of 3 new fish passage pipes, improvements to drainage, and vegetation clearing. The project terminus is near the Yukon River, above its ordinary high water level, approximately 6 miles upriver from the community of Tanana. No work would be done in the Yukon River.

All work would be performed in accordance with the enclosed plan, (122 sheets), dated either December 21, 2013 or February 2013; and the Supplemental Information, Pages 1 – 22.

Project Location: The proposed project is located within multiple Township, Range and Sections (see Sheet 5 of 22 in the Supplemental Information), Fairbanks Meridian; USGS Quad Map Tanana A-2, A-3 and A-4; the project starts near Manley Hot Springs, Alaska at Latitude 65.089142° N., Longitude 150.825793° W.; and ends near Tanana, Alaska, at Latitude 65.195665° N., Longitude 151.838842 W.

Permit Conditions:

General Conditions:

1. The time limit for completing the work authorized ends on September 30, 2018.

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

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

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

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

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

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

Special Conditions:

1. Vegetation clearing in wetlands (where no fill is authorized) shall be accomplished by hand, using low ground-pressure, wheeled ATVs for access to minimize temporary impacts.
2. All stream crossing shall be constructed with 2:1 or steeper embankment slopes as shown on sheets 71 (Type A&B Pipe Plan and Oblique View, Section B-B') and 95 (Fish Pass Pipe Plan and Oblique View, Section R-R') of 122 of the attached plans.
3. Road embankment slopes shall be constructed at 2:1 slope in all waters of the U.S. unless it is not practicable. If construction deviates from the 2:1 slopes because they are not practicable, this information shall be provided to the Corps of Engineers along with updated plans showing extent of impacts to waters of the U.S.

4. Updated plans showing 2:1 slopes in waters of the U.S. shall be submitted to the Corps of Engineers prior to any clearing or construction. Plans shall show mile-markers and project survey stationing. Advertised plans shall show areas within waters of the U.S. that will be constructed at 2:1 slopes. Advertised plans shall be submitted to the Corps of Engineers as soon as they become available.
5. Stream crossing structures will be constructed during periods of low flow. Water crossing construction will be accomplished during annual periods historically coinciding with low-water flows (and/or frozen water/soils) in planned stream crossing locations. Drainage structures will be installed during periods of low flow unless it is not practicable.
6. All disturbed, stockpile and fill areas shall be stabilized to prevent erosion. Increased water turbidity and accumulation of sediment in drainages, sloughs, and other wetlands shall be evidence of insufficient stabilization. Embankments shall also be tracked and stabilized in accordance with appropriate measures to further prevent embankment erosion and sediment runoff. No temporary fills are permitted, if temporary fills are required outside of the permanent fill area, a permit modification must be applied for and mitigation requirements shall apply (as stated in Special Condition 7).
7. For unavoidable impacts to waters of the U.S., the applicant shall pay an ILF at a ratio of 2:1 for the permanent loss of 3.6 acres of medium and high value wetlands, and at a ratio of 1.5:1 for the permanent loss of 31 acres of low value wetlands, for a total of 53.7 acres, to The Conservation Fund, Alaska Branch, 2727 Hiland Road, Eagle River, Alaska 99577. This fee must be paid prior to the start of any work. Proof of payment must be submitted to the Corps of Engineers prior to the start of any work.
8. Existing ponds, wetlands, and water bodies shall be avoided to the maximum extent practicable. When individual historically placer mined water bodies are re-entered, or if groundwater is intercepted, the resulting ponds and water body shoreline will be stabilized as part of the reclamation plan. A reclamation plan for mined areas shall be submitted to the Corps of Engineers for review and approval prior to initiating mining.
9. The fish-bearing stream crossings at Bailey Creek and West Long Lake tributary shall include stream simulation features, and shall be at least as wide as a bank full width of their undisturbed waterways.
10. Fish bearing streams on public lands shall have at least an 82' primary buffer and a 50' secondary buffer of undisturbed existing vegetation between the ordinary high water mark and any mining related ground disturbance. These buffers shall be staked on the ground prior to development of the material site.
11. On non-fish bearing Sullivan Creek eastward of the OHW mark, a 50' buffer shall be maintained (33 foot primary and 17 foot secondary buffer). On all other non-fish bearing streams on public lands, at least a 33' primary, and a

33' secondary buffer of undisturbed existing vegetation between the ordinary high water mark and any mining related ground disturbance shall be maintained. These buffers shall be staked on the ground prior to development of the material site.

12. Best management practices for preventing the introduction of invasive weeds shall be implemented, such as thoroughly washing equipment before deployment onsite.
13. Material site reclamation shall be accomplished within 2 years on any portion of a mine that has been inactive (abandoned) for 2 years, or where the material source is no longer practical or economically feasible to extract, with the exception of portions reserved for maintenance activities. Reclamation shall be conducted concurrently with mining as practicable. The area to be reserved for maintenance activities shall be as small as practicable depending on the gravel need. A final reclamation plan for each material site including a map showing the area to be reserved for maintenance activities shall be provided to the Corps of Engineers once the area has been selected and before reclamation of the site begins.
14. Un-vegetated or heavily rutted sections of roads and trails located in wetlands and no longer needed after the all season road is constructed, shall be reclaimed by returning the land surface to the original land-surface profile and re-vegetating with native plant species; as long as the reclamation of that portion of the road does not eliminate trail access to active mining or subsistence use areas.
15. No fill, equipment or construction materials shall be stockpiled or stored on wetlands that do not have Department of the Army authorization for those activities.
16. Natural drainage patterns shall be maintained to the extent practicable by the installation of culverts in sufficient number and size under access roads and trails to prevent ponding, diversion, or concentrated runoff that would result in adverse impacts to adjacent wetlands and other fish and wildlife habitats.

Special Information:

Any condition incorporated by reference into this permit by General Condition 5, remains a condition of this permit unless expressly modified or deleted, in writing, by the District Engineer or his authorized representative.

Further Information:

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

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

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

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

2. Limits of this authorization.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Such a reevaluation may result in a determination that it is appropriate to use the suspension, modification, and revocation procedures contained in 33 CFR 325.7 or enforcement procedures such as those contained in 33 CFR 326.4 and 326.5. The referenced enforcement procedures provide for the issuance of an administrative order requiring you to comply with the terms and conditions of your permit and for the initiation of legal action where appropriate. You will be required to pay for any corrective measures ordered by this office, and if you fail to comply with such directive, this office may in certain situations (such as those specified in 33 CFR 209.170) accomplish the corrective measures by contract or otherwise and bill you for the cost.

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

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

Brett Welch Environmental Manager

9/23/13

(PERMITTEE) AND TITLE

(DATE)

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

Ellen Lyons

9/24/13

FOR (DISTRICT COMMANDER)
Colonel Christopher D. Lestochi
Ellen Lyons, Project Manager
North Branch, Regulatory Division

(DATE)

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

(TRANSFEREE)

(DATE)



THE STATE
of **ALASKA**

GOVERNOR SEAN PARNELL

**Department of Environmental
Conservation**

DIVISION OF WATER
Wastewater Discharge Authorization Program

555 Cordova Street
Anchorage, Alaska 99501-2617
Main: 907.269.6285
fax: 907.334.2415
www.dec.alaska.gov/water/wwdp

Certified Mail: 7009-2820-0001-7169-4855

July 3, 2013

ADOT&PF – Northern Region
Attn: Mr Paul Karcamarczyk
2301 Peger Road
Fairbanks, AK 99709-5399

Re: Yukon River ADOT&PF Road to Tanana
Reference No. POA-2013-50

Dear Mr. Karcamarczyk:

In accordance with Section 401 of the Federal Clean Water Act of 1977 and provisions of the Alaska Water Quality Standards, the Department of Environmental Conservation (DEC) is issuing the enclosed Certificate of Reasonable Assurance for placement of fill material in waters of the U.S. in association with the development of road improvements associated with POA-2013-50 Road to Tanana Project.

DEC regulations provide that any person who disagrees with this decision may request an informal review by the Division Director in accordance with 18 AAC 15.185 or an adjudicatory hearing in accordance with 18 AAC 15.195 – 18 AAC 15.340. An informal review request must be delivered to the Director, Division of Water, 555 Cordova Street, Anchorage, AK 99501, within 15 days of the permit decision. Visit <http://www.dec.state.ak.us/commish/ReviewGuidance.htm> for information on Administrative Appeals of Department decisions.

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

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

Sincerely,

Handwritten signature of James Rypkema in black ink.

James Rypkema
Section Manager, Storm Water and Wetlands

Enclosure: 401 Certificate of Reasonable Assurance

cc: (with enclosure via email.)
Ellen Lyons, USACE, Fairbanks

Michael Daigneault, ADF&G
USFWS Field Office Anchorage
Matthew LaCroix, EPA Operations, Anchorage

STATE OF ALASKA
DEPARTMENT OF ENVIRONMENTAL CONSERVATION
CERTIFICATE OF REASONABLE ASSURANCE

A Certificate of Reasonable Assurance, in accordance with Section 401 of the Federal Clean Water Act and the Alaska Water Quality Standards is issued to Alaska Department of Transportation and Public Facilities, Northern Region, 2301 Peger Road, Fairbanks, Alaska 99709-5399 for placement of fill material in waters of the U.S. in association with the development of the road to Tanana project. The applicant's stated purpose is to extend the existing highway system that currently terminates near Manley Hot Springs, to the Yukon River near Tanana. The project would improve approximately 16.5 miles of existing road and unimproved trail and construct 19.34 miles of new road across undeveloped terrain to provide an all season link to the south bank of the Yukon River near Tanana, Alaska.

The project consists of upgrading the last two miles of the existing Tofty Road, as well as an additional 14.5 miles of existing roads and trails that extend past the current terminus of Tofty Road (beginning at approximately mile post 15; the installation of a new bridge at Boulder Creek (#2297), and the construction of 19.34 miles of new road beginning at mile post 29.5. The proposed project also includes the expansion of two existing material sites, the creation of five new material sites, the installation of 3 new fish passage pipes, improvements to drainage, and vegetation clearing. The project terminus is near the Yukon River, above its ordinary high water level, approximately 6 miles upriver from the community of Tanana. No work would be done in the Yukon River.

A State Water Quality Certification is required under Section 401 because the proposed activity will be authorized by a U.S. Army Corps of Engineers permit, reference number POA-2013-50, and a discharge of pollutants to waters of the U.S. located in the State of Alaska may result from the proposed activity. Public notice of the application for this certification was given as required by 18 AAC 15.180 in the Corps Public Notice POA-2013-50 posted from March 21, 2013 to April 19, 2013.

The proposed project is located within multiple Township, Range and Sections, Fairbanks Meridian; the project starts near Manley Hot Springs, Alaska at Latitude 65.089142° N., Longitude 150.825793° W.; and ends near Tanana, Alaska, at Latitude 65.195665° N., Longitude 151.838842 W.

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

1. Reasonable precautions and controls must be used to prevent incidental and accidental discharge of petroleum products or other hazardous substances. Fuel storage and handling activities for equipment must be sited and conducted so there is no petroleum contamination of the ground, surface runoff or water bodies.
2. During construction, spill response equipment and supplies such as sorbent pads shall be available and used immediately to contain and cleanup oil, fuel, hydraulic fluid, antifreeze, or other pollutant spills. Any spill amount must be reported in accordance with Discharge Notification and Reporting Requirements (AS 46.03.755 and 18 AAC 75 Article 3). The applicant must contact by telephone the DEC Area Response Team for Northern Alaska at (907) 451-2121,

during work hours or 1-800-478-9300 after hours. Also, the applicant must contact by telephone the National Response Center at 1-800-424-8802.

3. Runoff discharged to surface water (including wetlands) from a construction site disturbing one or more acres must be covered under Alaska's General Permit for Storm Water Discharges from Large and Small Construction Activities in Alaska (AKR100000). This permit requires a Storm Water Pollution Prevention Plan (SWPPP). For projects that disturb more than five acres, this SWPPP must also be submitted to DEC (William Ashton, 907-269-6283) prior to construction.
4. During the work on the culverts and bridges, construction equipment shall not be operated below the ordinary high water mark if equipment is leaking fuel, oil, hydraulic fluid, or any other hazardous material. Equipment shall be inspected on a daily basis for leaks. If leaks are found the equipment shall not be used and pulled from service until the leak is repaired.
5. All work areas, material access routes, and surrounding wetlands involved in the construction project shall be clearly delineated and marked in such a way that equipment operators do not operate outside of the marked areas.
6. Natural drainage patterns shall be maintained, to the extent practicable, without introducing ponding or drying.
7. Fill material must be clean sand, gravel or rock, free from petroleum products and toxic contaminants in toxic amounts.

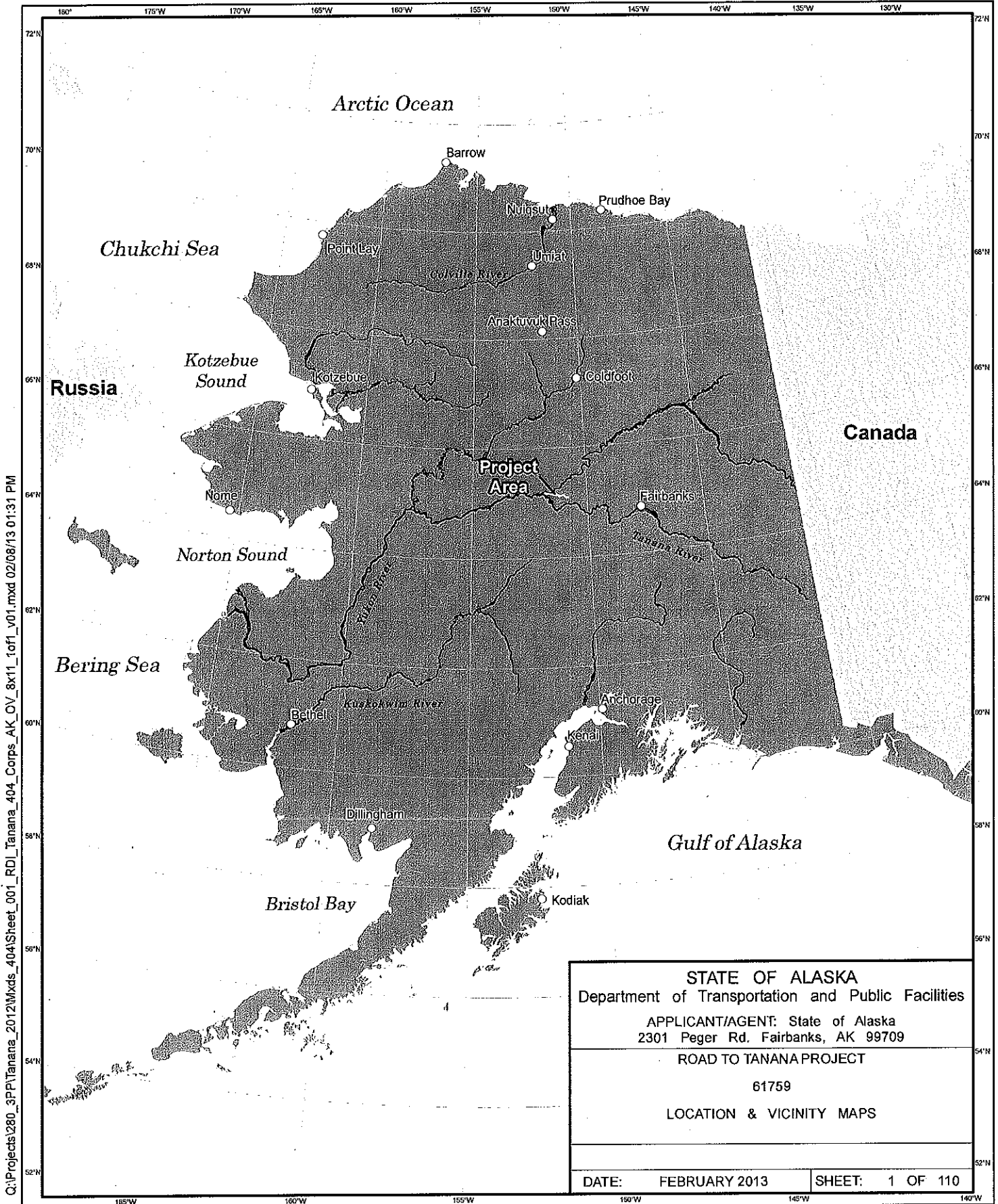
This certification expires five (5) years after the date the certification is signed. If your project is not completed by then and work under U.S Army Corps of Engineers Permit will continue, you must submit an application for renewal of this certification no later than 30 days before the expiration date (18 AAC 15.100).

Date: July 3, 2013



James Rypkema, Section Manager
Storm Water and Wetlands

POA-2013-50, Yukon River

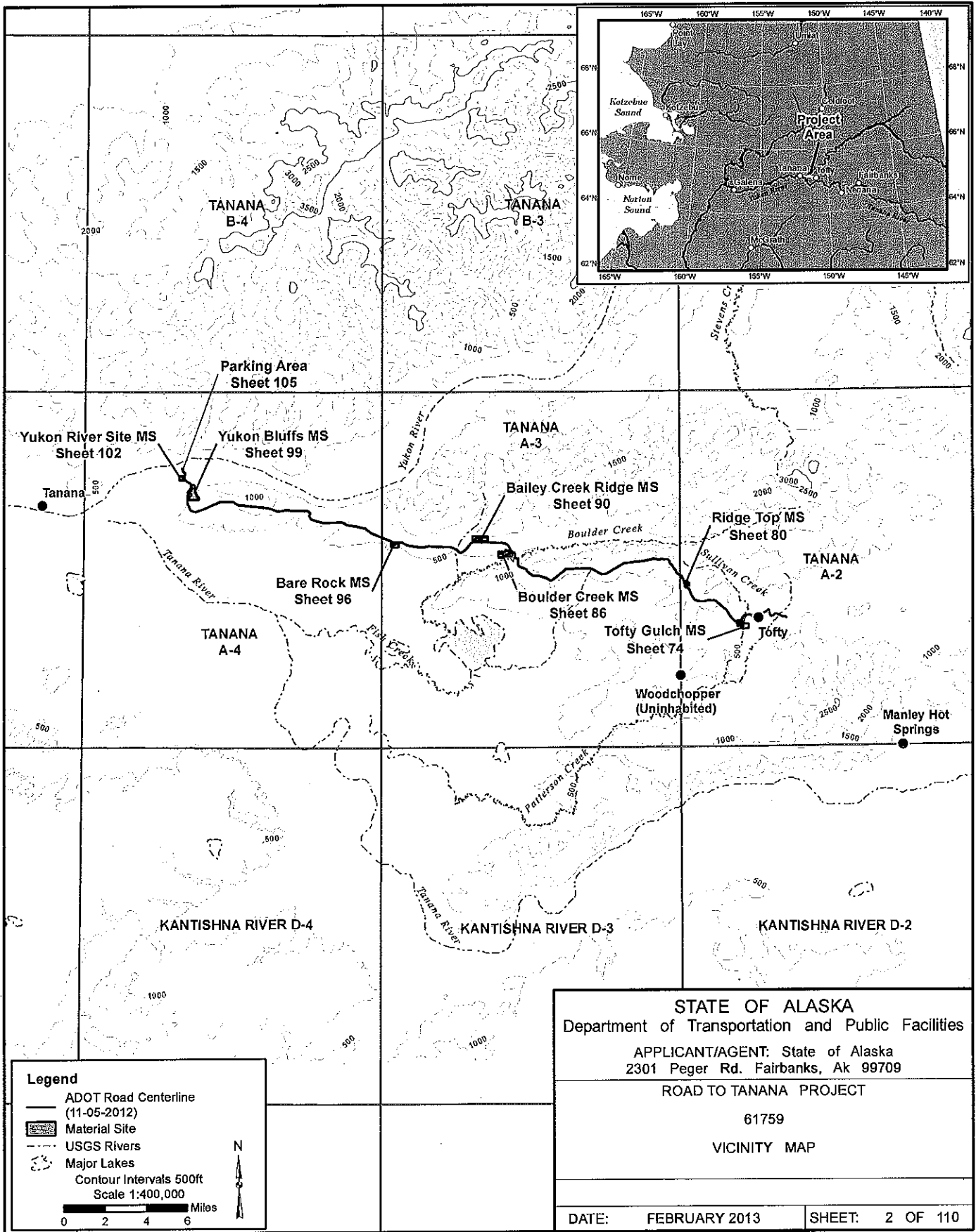


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<p>STATE OF ALASKA Department of Transportation and Public Facilities</p>	
<p>APPLICANT/AGENT: State of Alaska 2301 Peger Rd. Fairbanks, AK 99709</p>	
<p>ROAD TO TANANA PROJECT</p>	
<p>61759</p>	
<p>LOCATION & VICINITY MAPS</p>	
<p>DATE: FEBRUARY 2013</p>	<p>SHEET: 1 OF 110</p>

POA-2013-50, Yukon River

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Legend

- ADOT Road Centerline (11-05-2012)
- Material Site
- - - USGS Rivers
- Major Lakes

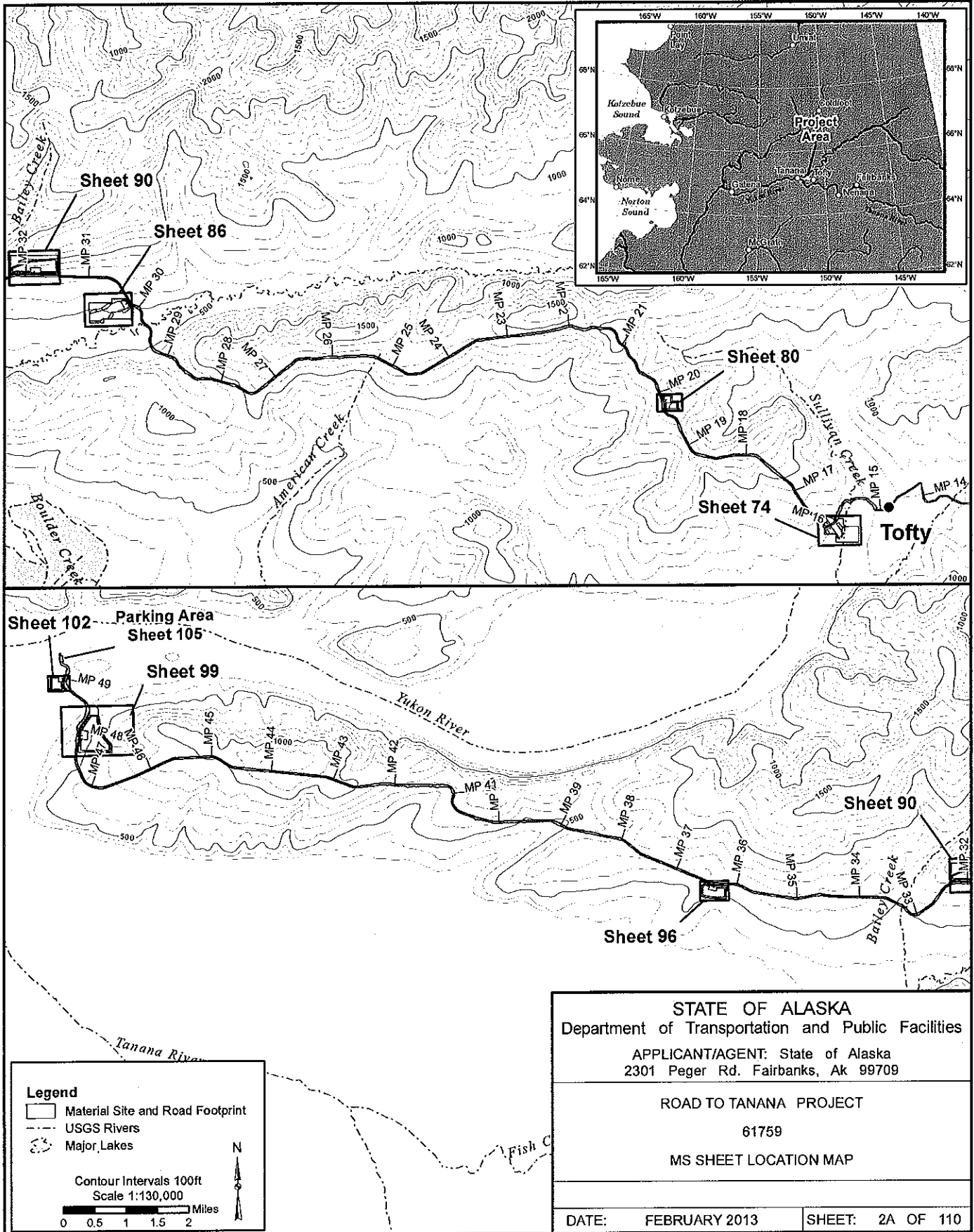
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0 2 4 6 Miles

N

<p>STATE OF ALASKA Department of Transportation and Public Facilities</p> <p>APPLICANT/AGENT: State of Alaska 2301 Peger Rd. Fairbanks, Ak 99709</p>	
<p>ROAD TO TANANA PROJECT</p> <p>61759</p> <p>VICINITY MAP</p>	
DATE: FEBRUARY 2013	SHEET: 2 OF 110

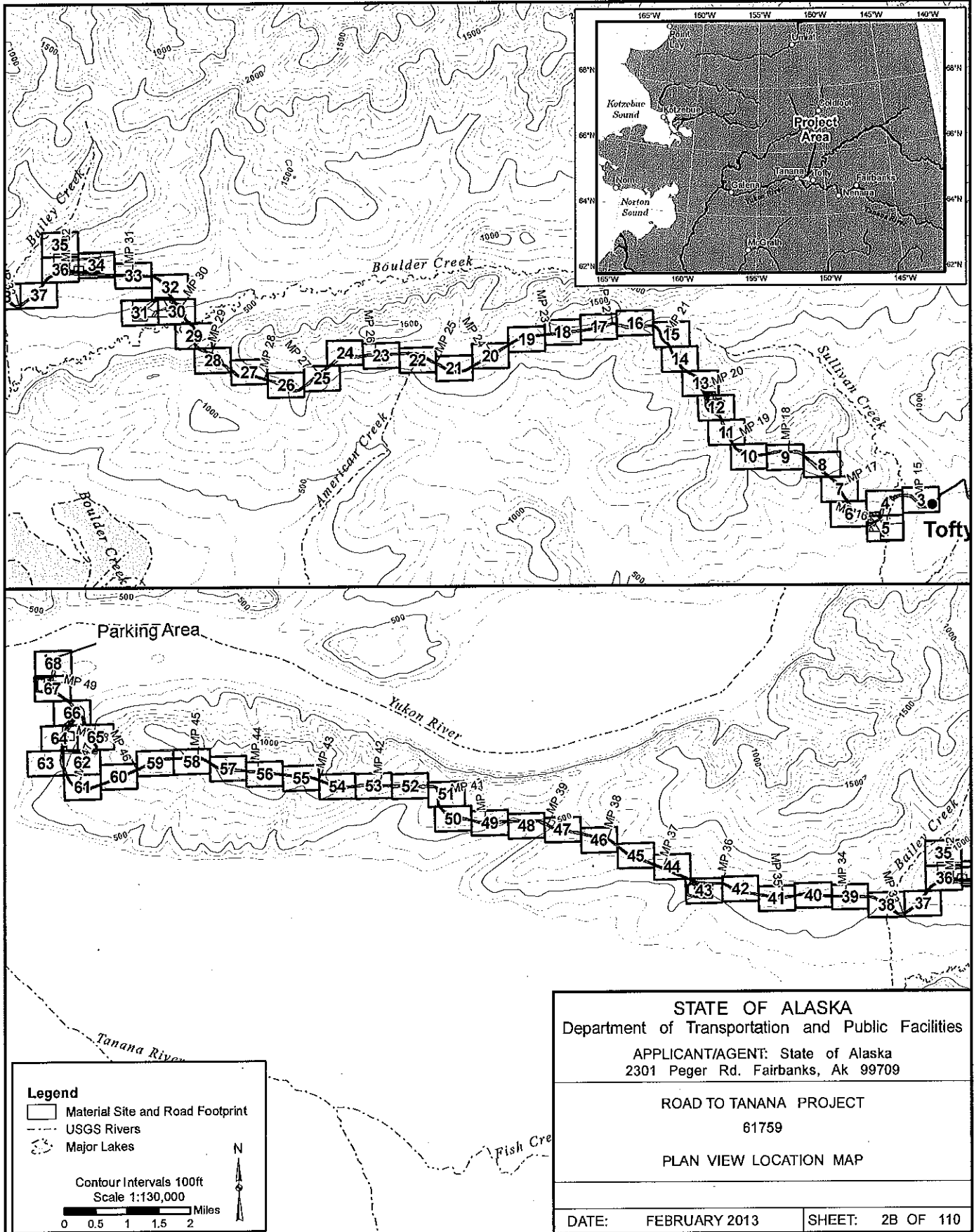
POA-2013-50, Yukon River



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<p>STATE OF ALASKA Department of Transportation and Public Facilities APPLICANT/AGENT: State of Alaska 2301 Peger Rd. Fairbanks, Ak 99709</p>	
<p>ROAD TO TANANA PROJECT 61759 MS SHEET LOCATION MAP</p>	
DATE: FEBRUARY 2013	SHEET: 2A OF 110

POA-2013-50, Yukon River



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Legend

- Material Site and Road Footprint
- USGS Rivers
- Major Lakes

Contour Intervals 100ft
Scale 1:130,000

0 0.5 1 1.5 2 Miles

STATE OF ALASKA
Department of Transportation and Public Facilities

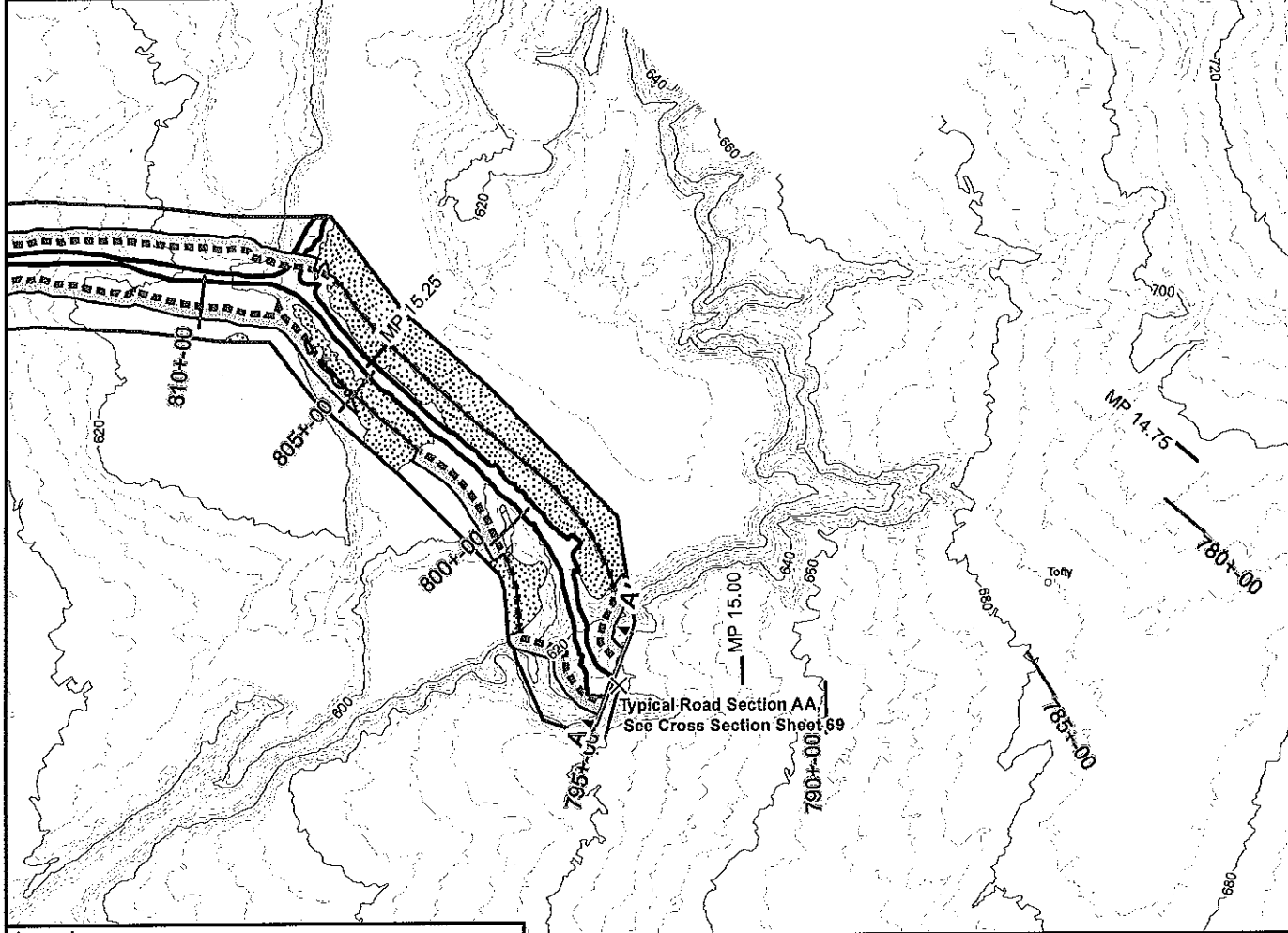
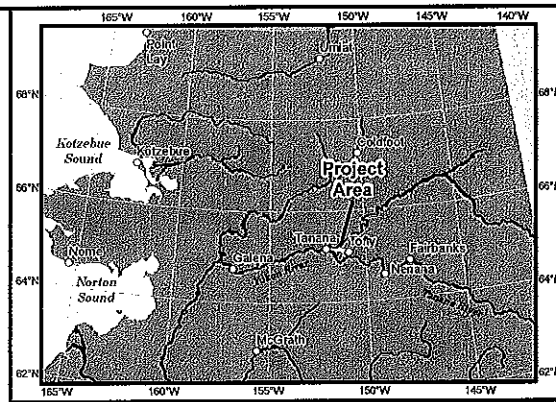
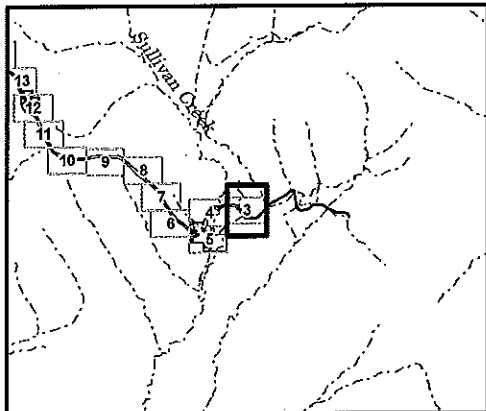
APPLICANT/AGENT: State of Alaska
2301 Peger Rd. Fairbanks, Ak 99709

ROAD TO TANANA PROJECT
61759

PLAN VIEW LOCATION MAP

DATE: FEBRUARY 2013 SHEET: 2B OF 110

POA-2013-50, Yukon River



Legend

Cutoff/Fill Boundary	Material Site
Vegetation Clearing	Culvert: Type A & B Pipe (See Cross Section Figures 70, 71, 72 & 73)
Vegetative Screen/Buffer	Culvert: Fish Pass Pipe (See Cross Section Figures 94, 95, 72 & 73)
3PPI Study Area Boundary (12/05/2012)	MS Section Cut Lines
Wetland	20ft Interval Contour
Upland	4ft Interval Contour
Wetland/Upland Mosaic	3PPI Arcs (12/5/2012)
Navigable Waters	Previously Disturbed
Other Waters	(All drainages are unnamed unless labeled on sheet)

Scale 1:5,000
0 150 300 450 Feet

STATE OF ALASKA
Department of Transportation and Public Facilities

APPLICANT/AGENT: State of Alaska
2301 Peger Rd. Fairbanks, AK 99709

ROAD TO TANANA PROJECT

61759

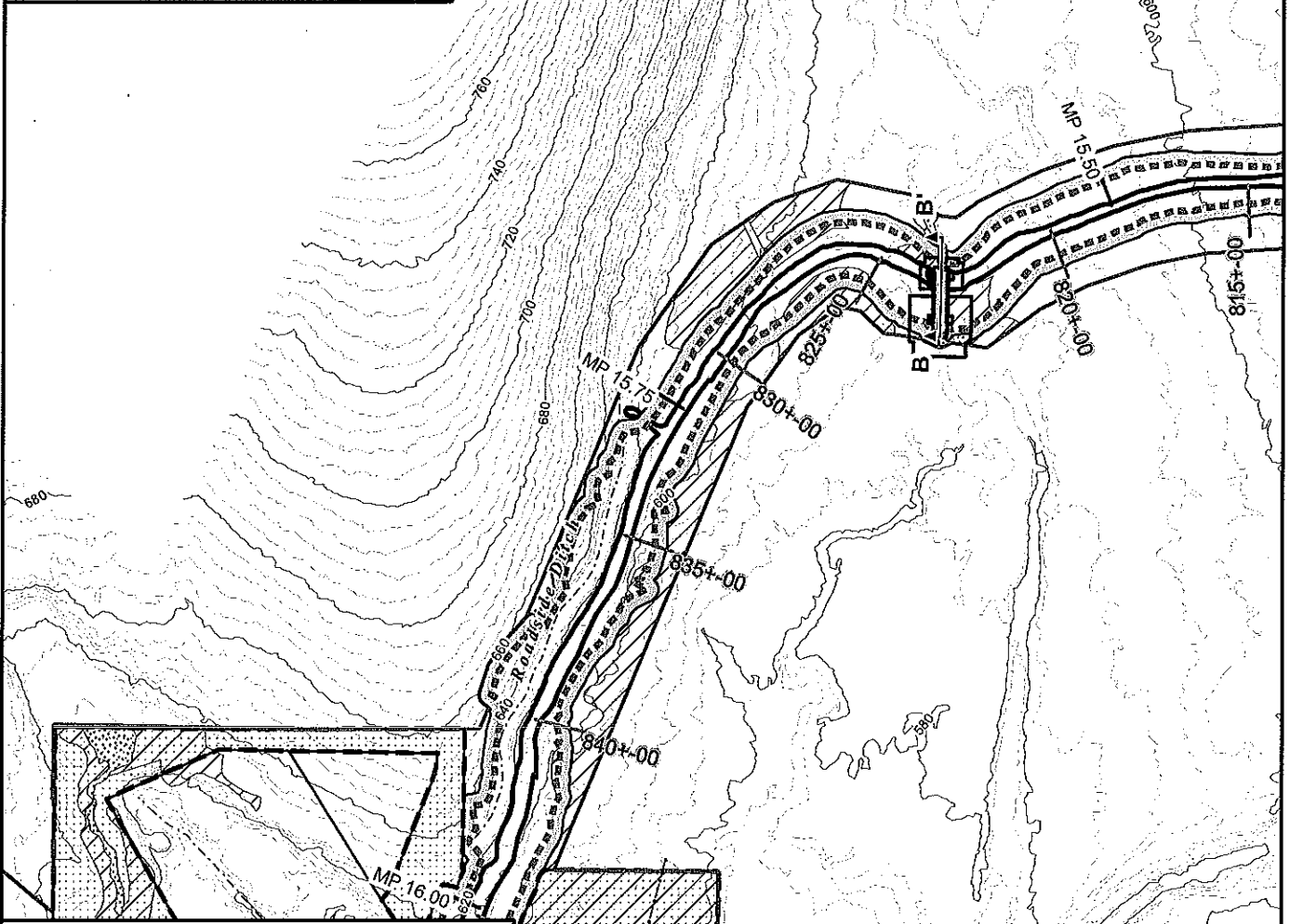
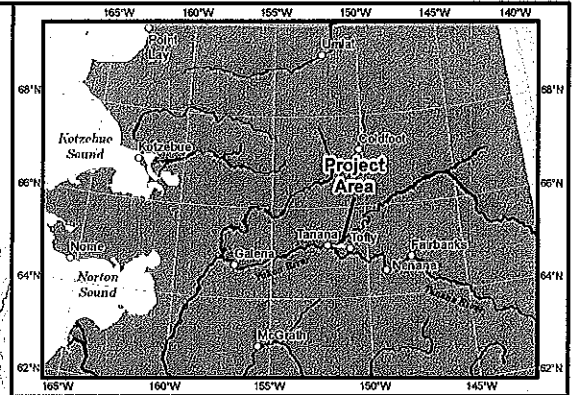
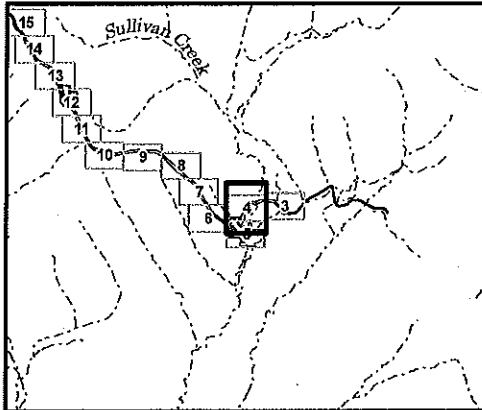
Plan View, MP: 14.69 to 15.43

Patterson Creek Basin

DATE: FEBRUARY 2013	SHEET: 3 of 110
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POA-2013-50, Yukon River



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Legend

	Culvert: Type A & B Pipe (See Cross Section Figures 70, 71, 72 & 73)
	Culvert: Fish Pass Pipe (See Cross Section Figures 94, 95, 72 & 73)
	MS Section Cut Lines
	20ft Interval Contour
	4ft Interval Contour
	3PPI Arcs (12/5/2012) (All drainages are unnamed unless labeled on sheet)

Scale 1:5,000 Feet

0 150 300 450

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APPLICANT/AGENT: State of Alaska
 2301 Peger Rd. Fairbanks, AK 99709

ROAD TO TANANA PROJECT

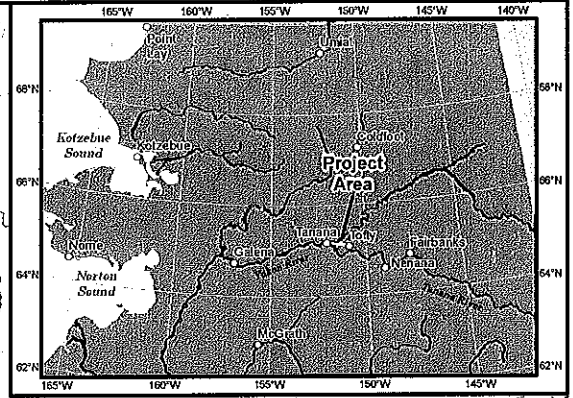
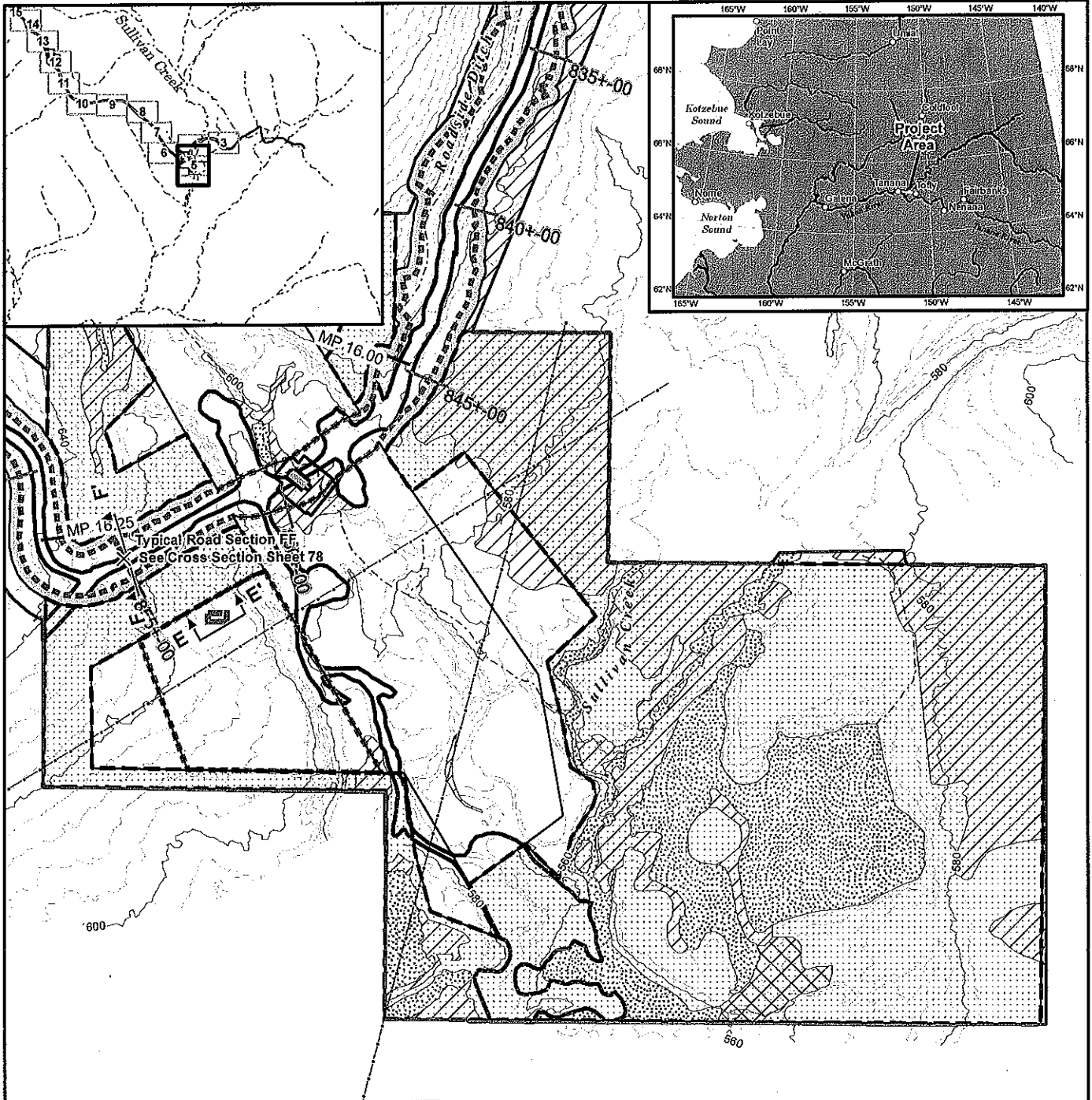
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Plan View, MP: 15.43 to 15.98

Patterson Creek Basin

DATE: FEBRUARY 2013 SHEET: 4 of 110

POA-2013-50, Yukon River



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Legend

	Cut/Fill Boundary		Material Site
	Vegetation Clearing		Culvert: Type A & B Pipe (See Cross Section Figures 70, 71, 72 & 73)
	Vegetative Screen/Buffer		Culvert: Fish Pass Pipe (See Cross Section Figures 94, 95, 72 & 73)
	3PPI Study Area Boundary (12/05/2012)		MS Section Cut Lines
	Wetland		20ft Interval Contour
	Upland		4ft Interval Contour
	Wetland/Upland Mosaic		3PPI Arcs (12/5/2012) (All drainages are unnamed unless labeled on sheet)
	Navigable Waters		
	Other Waters		
	Previously Disturbed		

Scale 1:5,000
0 150 300 450 Feet

STATE OF ALASKA
Department of Transportation and Public Facilities

APPLICANT/AGENT: State of Alaska
2301 Peger Rd. Fairbanks, AK 99709

ROAD TO TANANA PROJECT

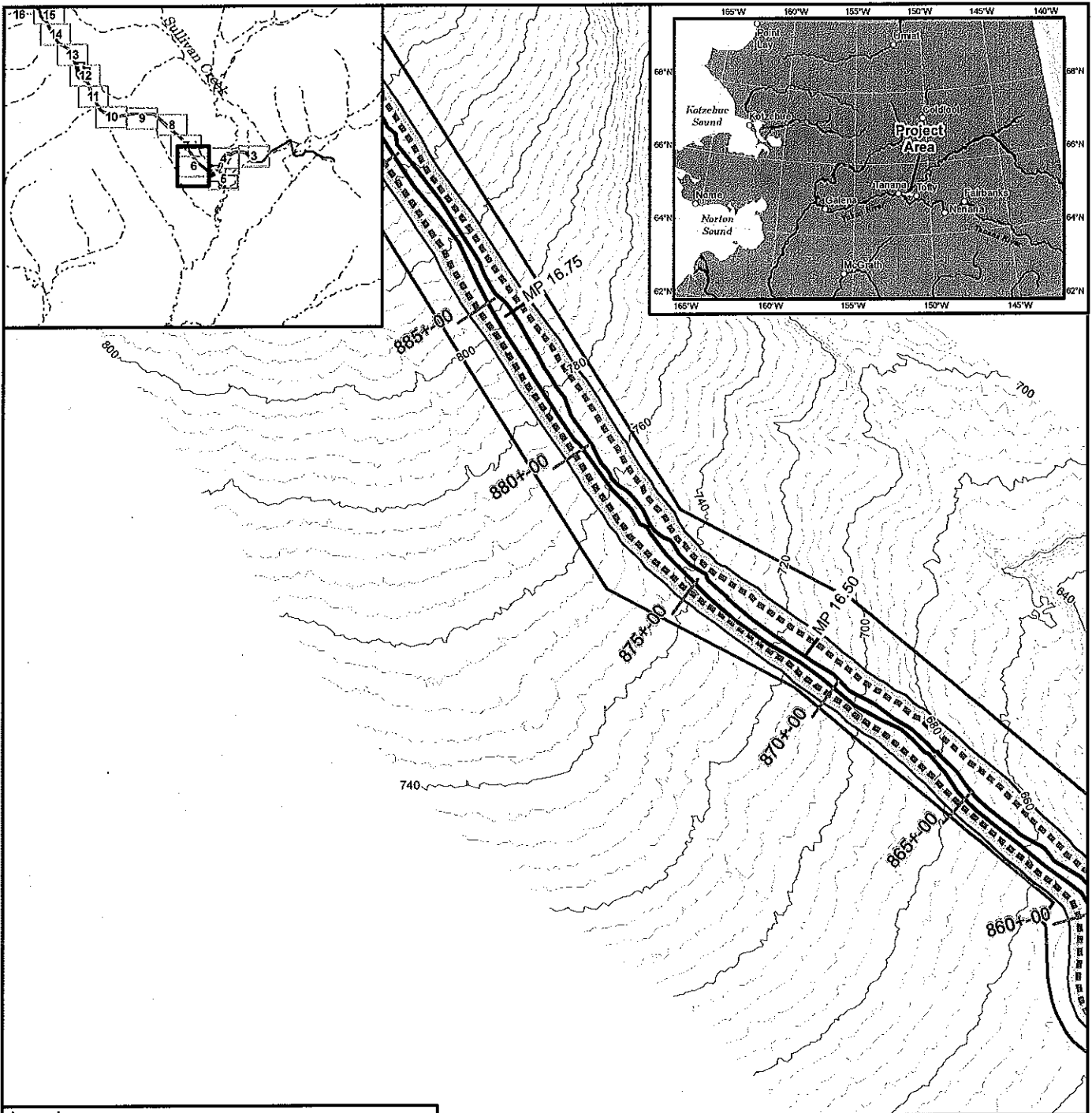
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Plan View, MP: 15.98 to 16.31

Patterson Creek Basin

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POA-2013-50, Yukon River



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Legend

Scale 1:5,000
0 150 300 450 Feet

N

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APPLICANT/AGENT: State of Alaska
2301 Peger Rd. Fairbanks, AK 99709

ROAD TO TANANA PROJECT

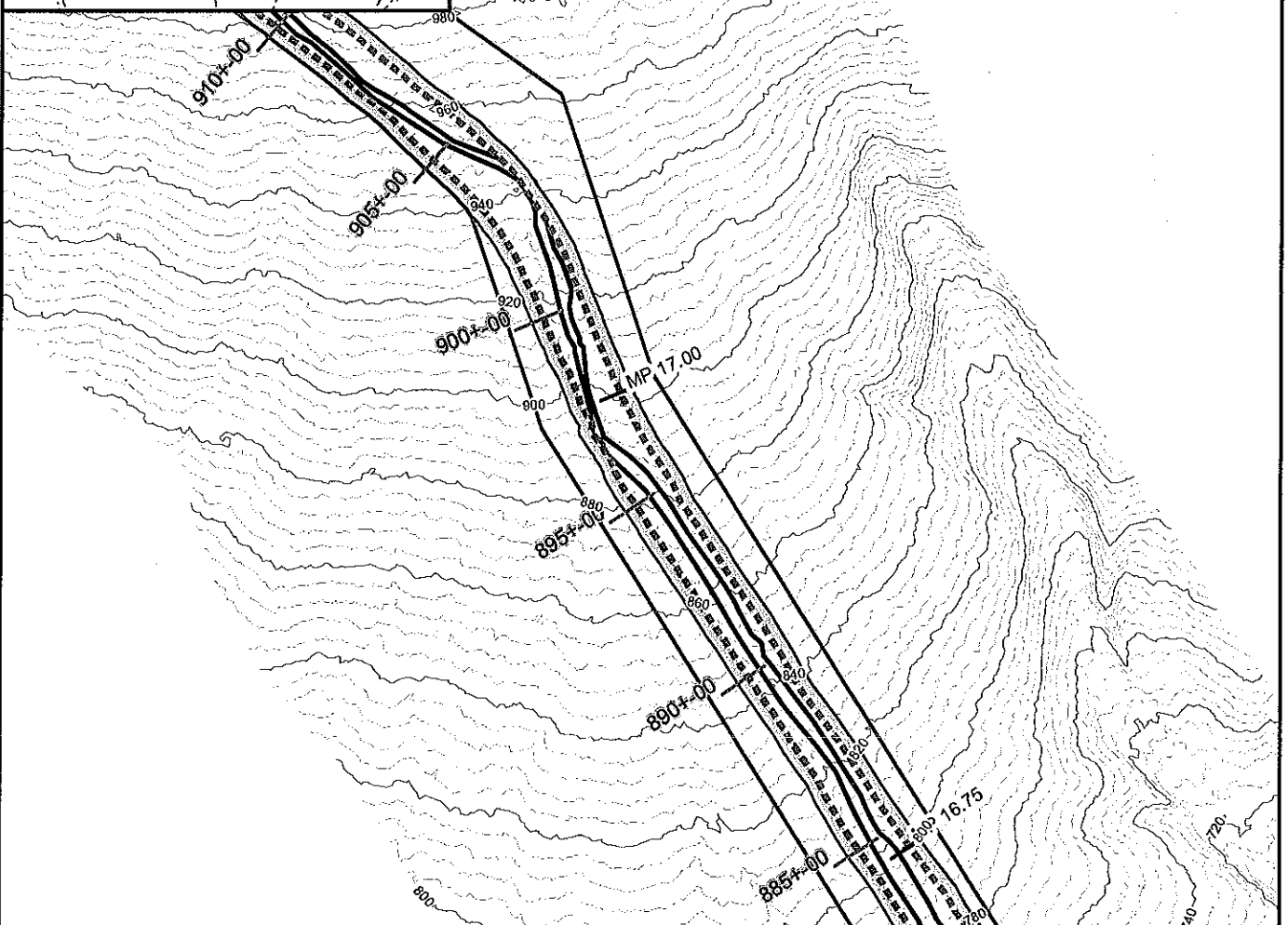
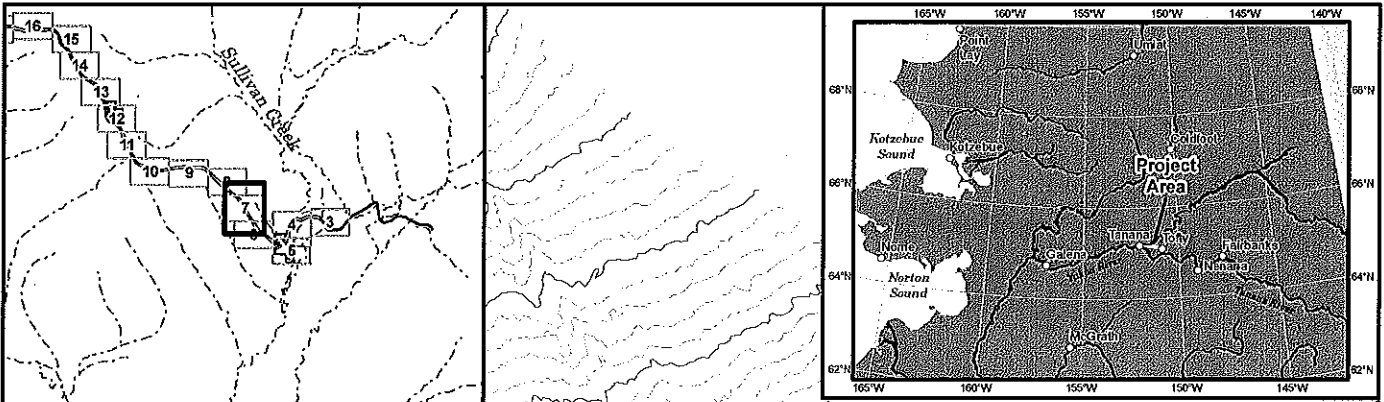
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Plan View, MP: 16.31 to 16.74

Patterson Creek Basin

DATE: FEBRUARY 2013	SHEET: 6 of 110
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POA-2013-50, Yukon River



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Legend

Scale 1:5,000
0 150 300 450 Feet

N

STATE OF ALASKA
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 APPLICANT/AGENT: State of Alaska
 2301 Peger Rd. Fairbanks, AK 99709

ROAD TO TANANA PROJECT

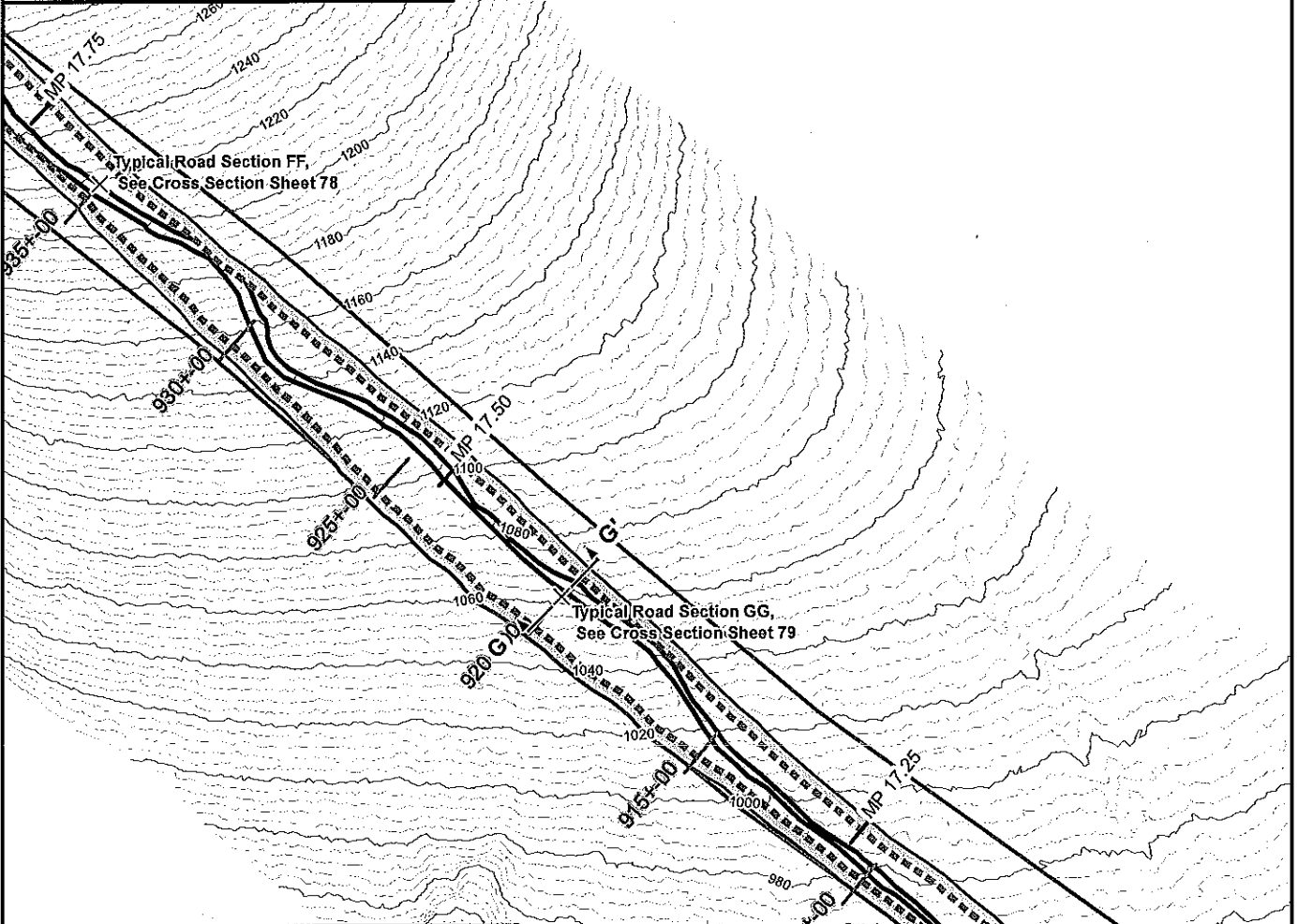
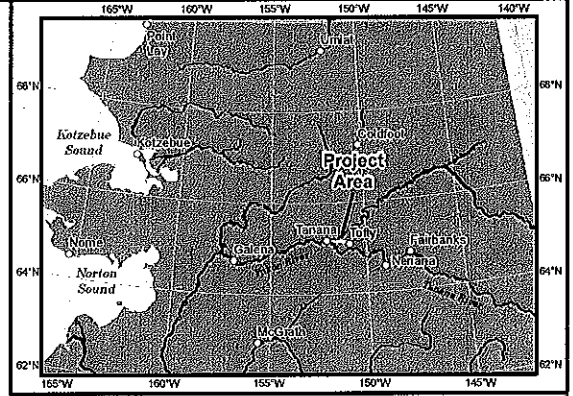
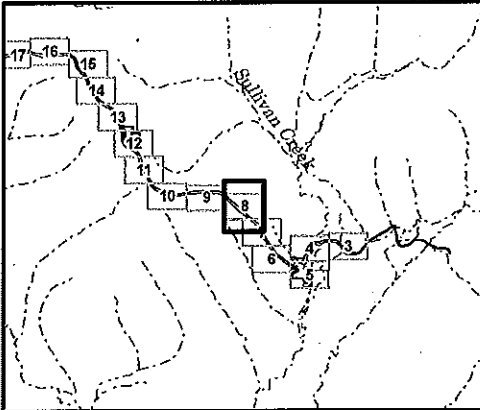
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Plan View, MP: 16.74 to 17.23

Patterson Creek Basin

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POA-2013-50, Yukon River



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Legend

	Cut/Fill Boundary		Material Site
	Vegetation Clearing		Culvert: Type A & B Pipe (See Cross Section Figures 70, 71, 72 & 73)
	Vegetative Screen/Buffer		Culvert: Fish Pass Pipe (See Cross Section Figures 94, 95, 72 & 73)
	3PPI Study Area Boundary (12/05/2012)		MS Section Cut Lines
	Wetland		20ft Interval Contour
	Upland		4ft Interval Contour
	Wetland/Upland Mosaic		3PPI Arcs (12/5/2012) (All drainages are unnamed unless labeled on sheet)
	Navigable Waters		
	Other Waters		
	Previously Disturbed		

Scale 1:5,000
0 150 300 450 Feet

STATE OF ALASKA
Department of Transportation and Public Facilities

APPLICANT/AGENT: State of Alaska
2301 Peger Rd. Fairbanks, AK 99709

ROAD TO TANANA PROJECT

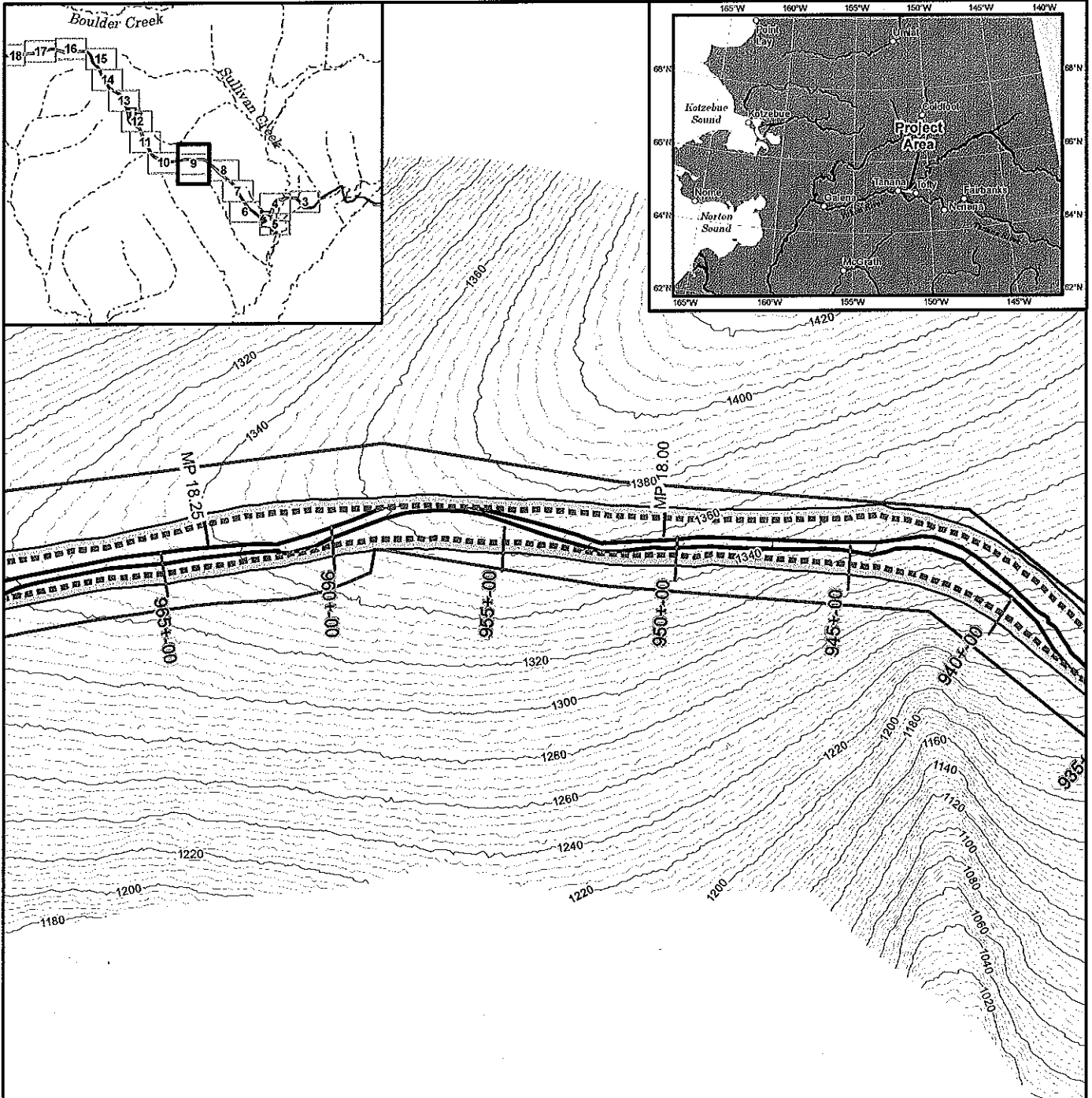
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Plan View, MP: 17.23 to 17.76

Patterson Creek Basin

DATE: FEBRUARY 2013	SHEET: 8 of 110
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POA-2013-50, Yukon River



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Legend

	Culvert: Type A & B Pipe (See Cross Section Figures 70, 71, 72 & 73)
	Culvert: Fish Pass Pipe (See Cross Section Figures 94, 95, 72 & 73)
	MS Section Cut Lines
	20ft Interval Contour
	4ft Interval Contour
	3PPI Ares (12/5/2012)
	(All drainages are unnamed unless labeled on sheet)

Scale 1:5,000
0 150 300 450 Feet

N

STATE OF ALASKA
Department of Transportation and Public Facilities

APPLICANT/AGENT: State of Alaska
2301 Peger Rd. Fairbanks, AK 99709

ROAD TO TANANA PROJECT

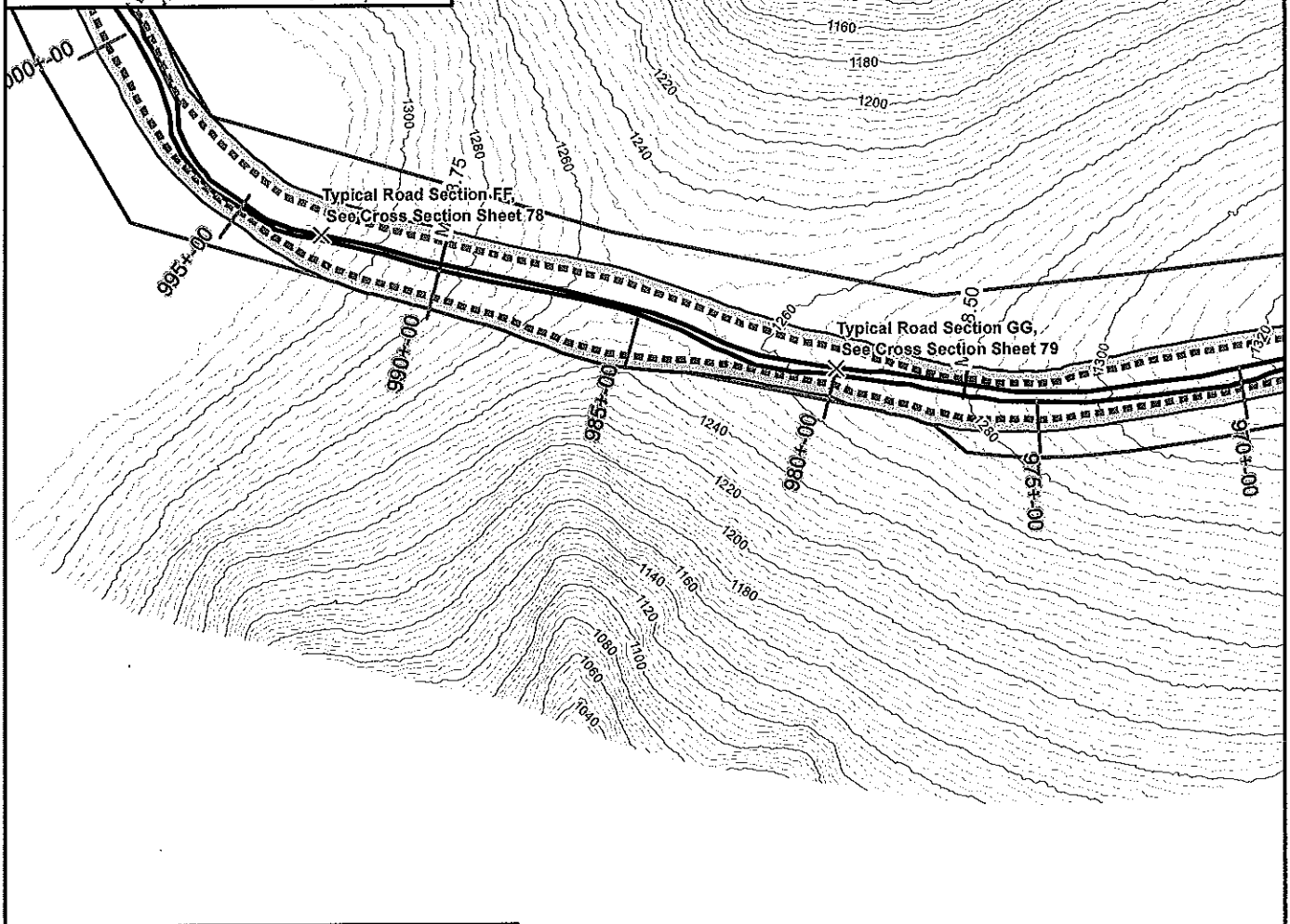
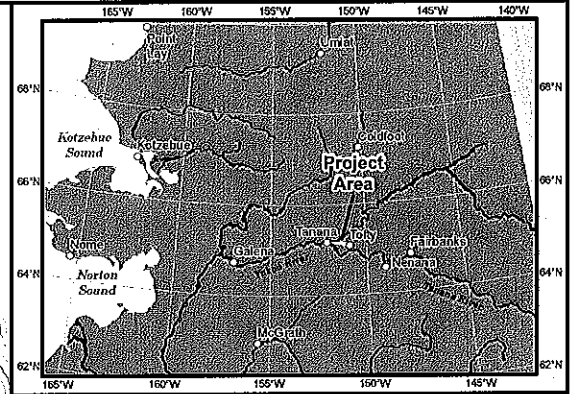
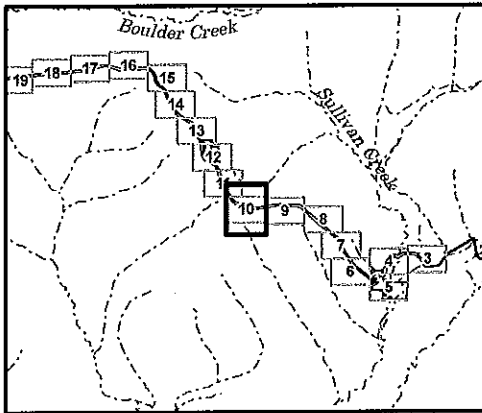
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Plan View, MP: 17.76 to 18.36

Patterson Creek Basin

DATE: FEBRUARY 2013	SHEET: 9 of 110
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POA-2013-50, Yukon River



Legend

	Material Site
	Culvert: Type A & B Pipe (See Cross Section Figures 70, 71, 72 & 73)
	Culvert: Fish Pass Pipe (See Cross Section Figures 94, 95, 72 & 73)
	MS Section Cut Lines
	20ft Interval Contour
	4ft Interval Contour
	3PPI Arcs (12/5/2012)
	(All drainages are unnamed unless labeled on sheet)

Scale 1:5,000
 0 150 300 450 Feet

STATE OF ALASKA
 Department of Transportation and Public Facilities

APPLICANT/AGENT: State of Alaska
 2301 Peger Rd. Fairbanks, AK 99709

ROAD TO TANANA PROJECT

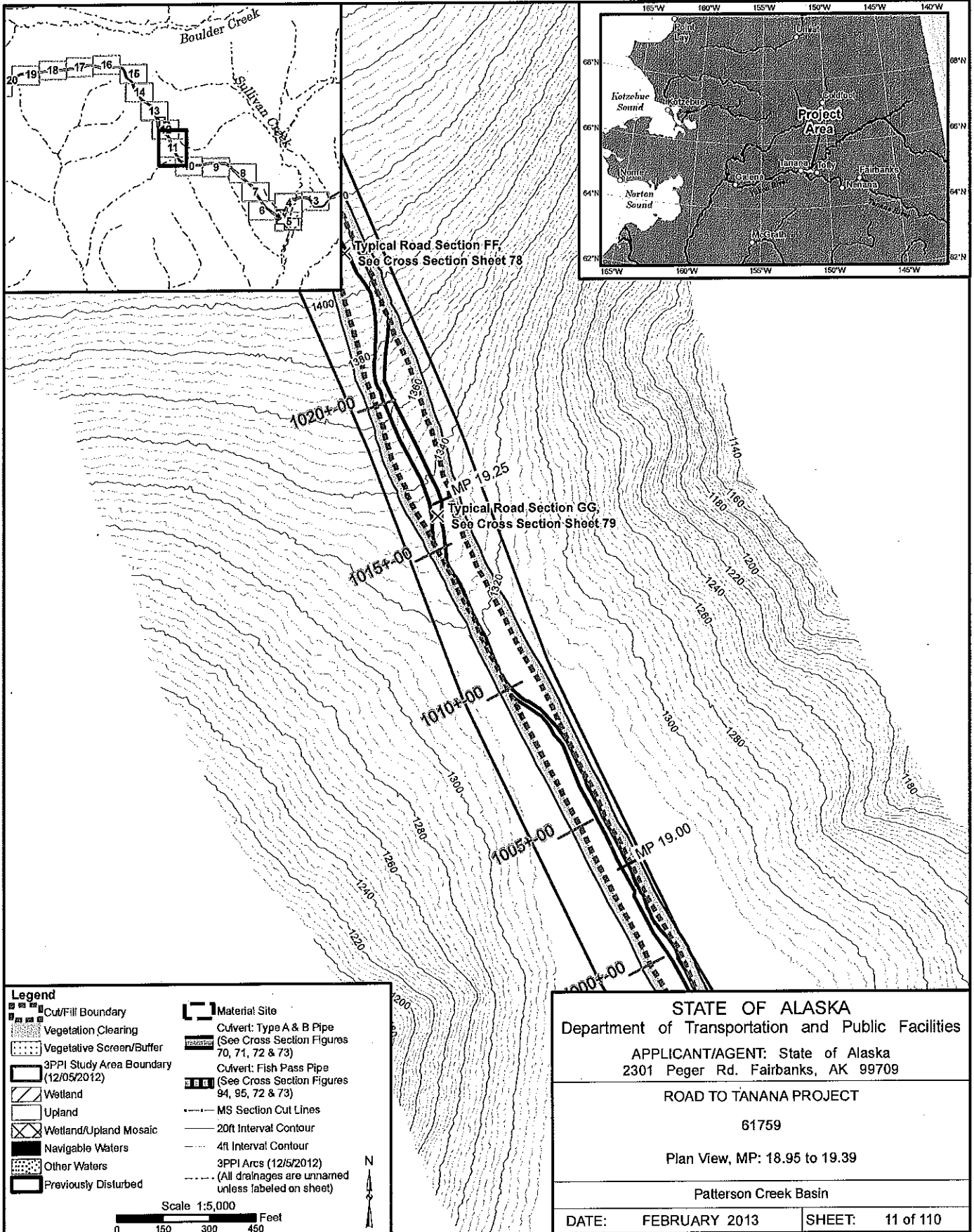
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Plan View, MP: 18.36 to 18.95

Patterson Creek Basin

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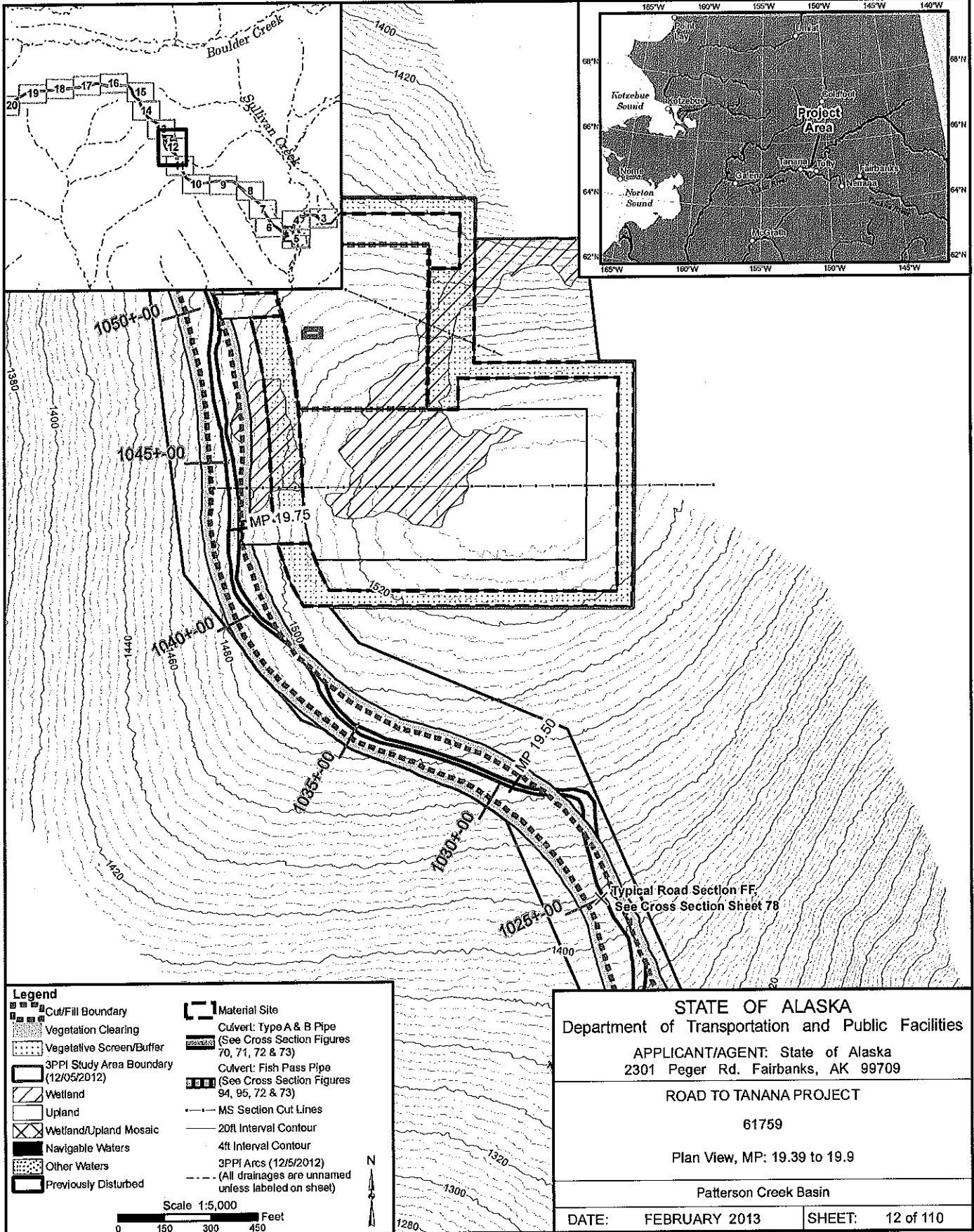
POA-2013-50, Yukon River



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<p>STATE OF ALASKA Department of Transportation and Public Facilities</p>	
<p>APPLICANT/AGENT: State of Alaska 2301 Peger Rd. Fairbanks, AK 99709</p>	
<p>ROAD TO TANANA PROJECT</p>	
<p>61759</p>	
<p>Plan View, MP: 18.95 to 19.39</p>	
<p>Patterson Creek Basin</p>	
DATE: FEBRUARY 2013	SHEET: 11 of 110

POA-2013-50, Yukon River



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Legend

	Cut/Fill Boundary		Material Site
	Vegetation Clearing		Culvert: Type A & B Pipe (See Cross Section Figures 70, 71, 72 & 73)
	Vegetative Screen/Buffer		Culvert: Fish Pass Pipe (See Cross Section Figures 94, 95, 72 & 73)
	3PPI Study Area Boundary (12/05/2012)		MS Section Cut Lines
	Wetland		20ft Interval Contour
	Upland		4ft Interval Contour
	Wetland/Upland Mosaic		3PPI Arcs (12/5/2012) (All drainages are unnamed unless labeled on sheet)
	Navigable Waters		
	Other Waters		
	Previously Disturbed		

Scale 1:5,000
0 150 300 450 Feet

STATE OF ALASKA
 Department of Transportation and Public Facilities

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ROAD TO TANANA PROJECT

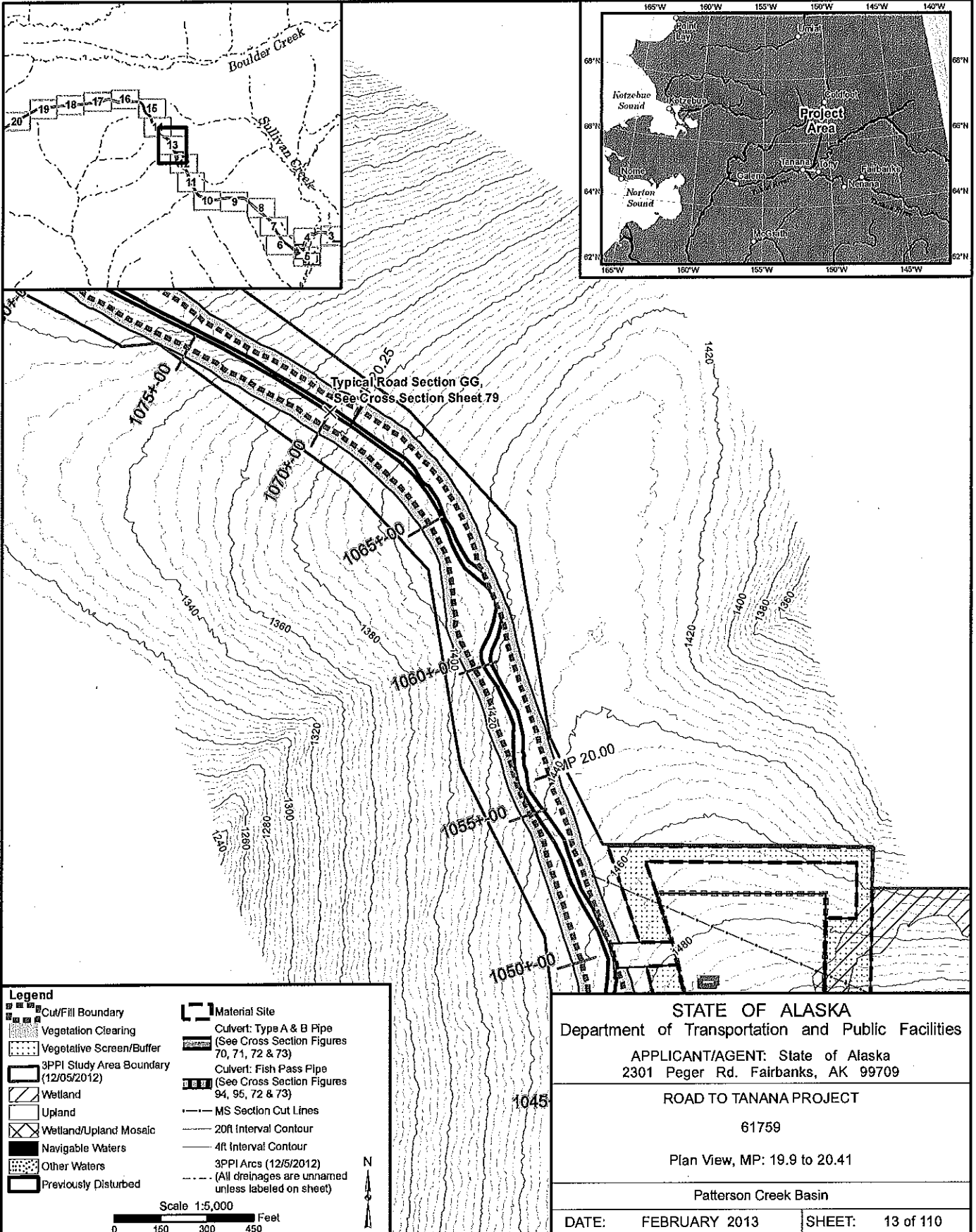
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Plan View, MP: 19.39 to 19.9

Patterson Creek Basin

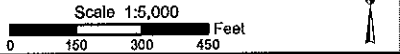
DATE: FEBRUARY 2013	SHEET: 12 of 110
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POA-2013-50, Yukon River



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- Legend**
- Cut/Fill Boundary
 - Vegetation Clearing
 - Vegetative Screen/Buffer
 - 3PPI Study Area Boundary (12/05/2012)
 - Wetland
 - Upland
 - Wetland/Upland Mosaic
 - Navigable Waters
 - Other Waters
 - Previously Disturbed
 - Material Site
 - Culvert: Type A & B Pipe (See Cross Section Figures 70, 71, 72 & 73)
 - Culvert: Fish Pass Pipe (See Cross Section Figures 94, 95, 72 & 73)
 - MS Section Cut Lines
 - 20ft Interval Contour
 - 4ft Interval Contour
 - 3PPI Arcs (12/5/2012)
 - (All drainages are unnamed unless labeled on sheet)



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ROAD TO TANANA PROJECT

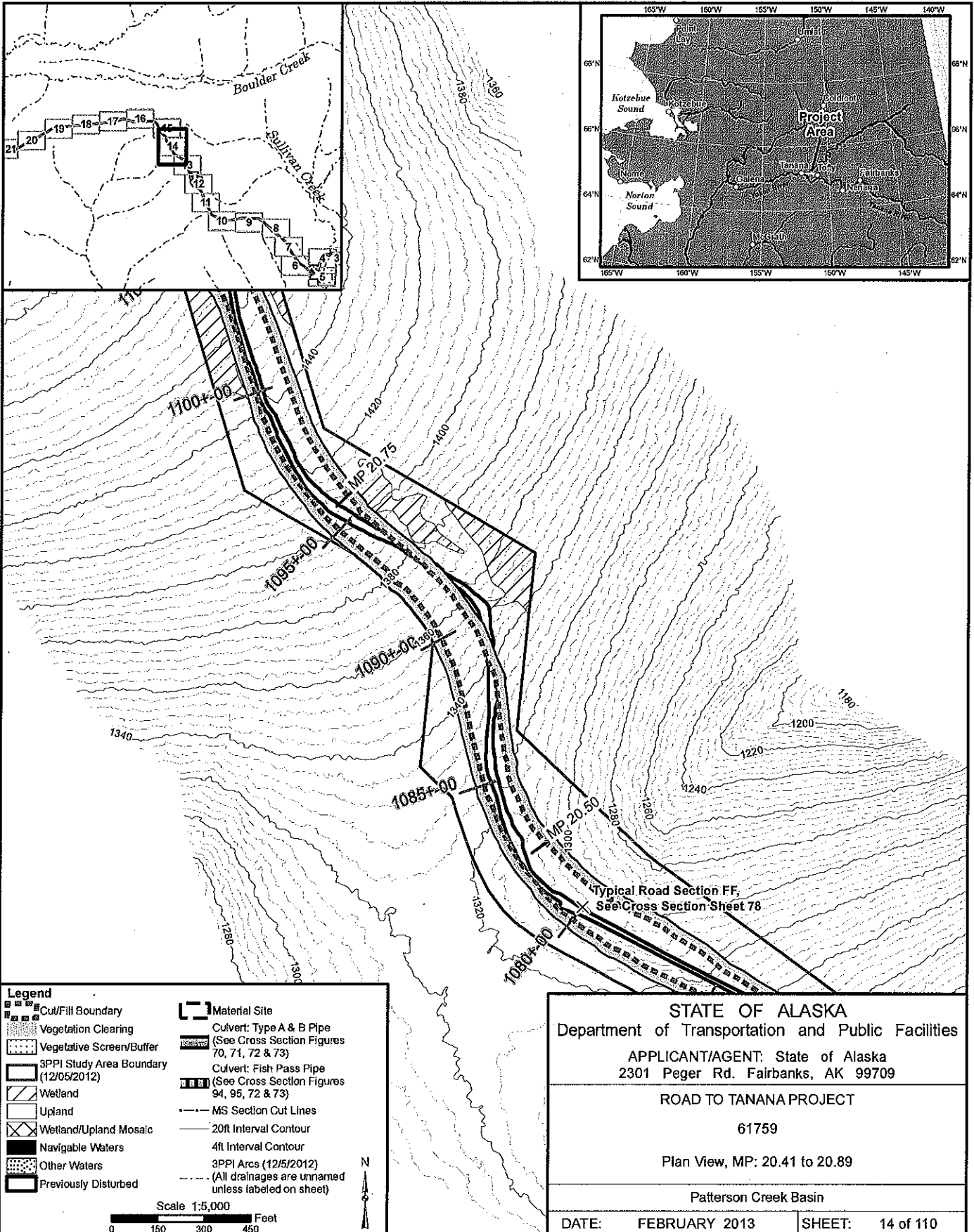
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Plan View, MP: 19.9 to 20.41

Patterson Creek Basin

DATE: FEBRUARY 2013	SHEET: 13 of 110
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POA-2013-50, Yukon River



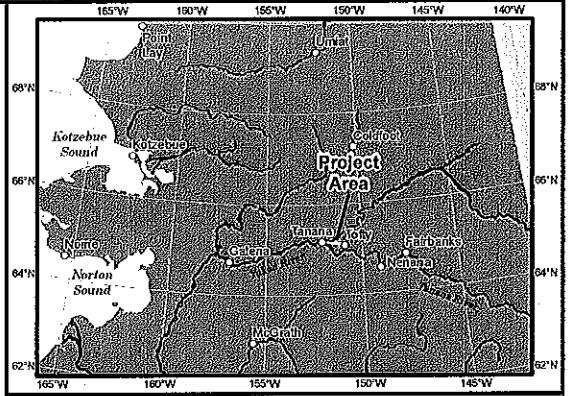
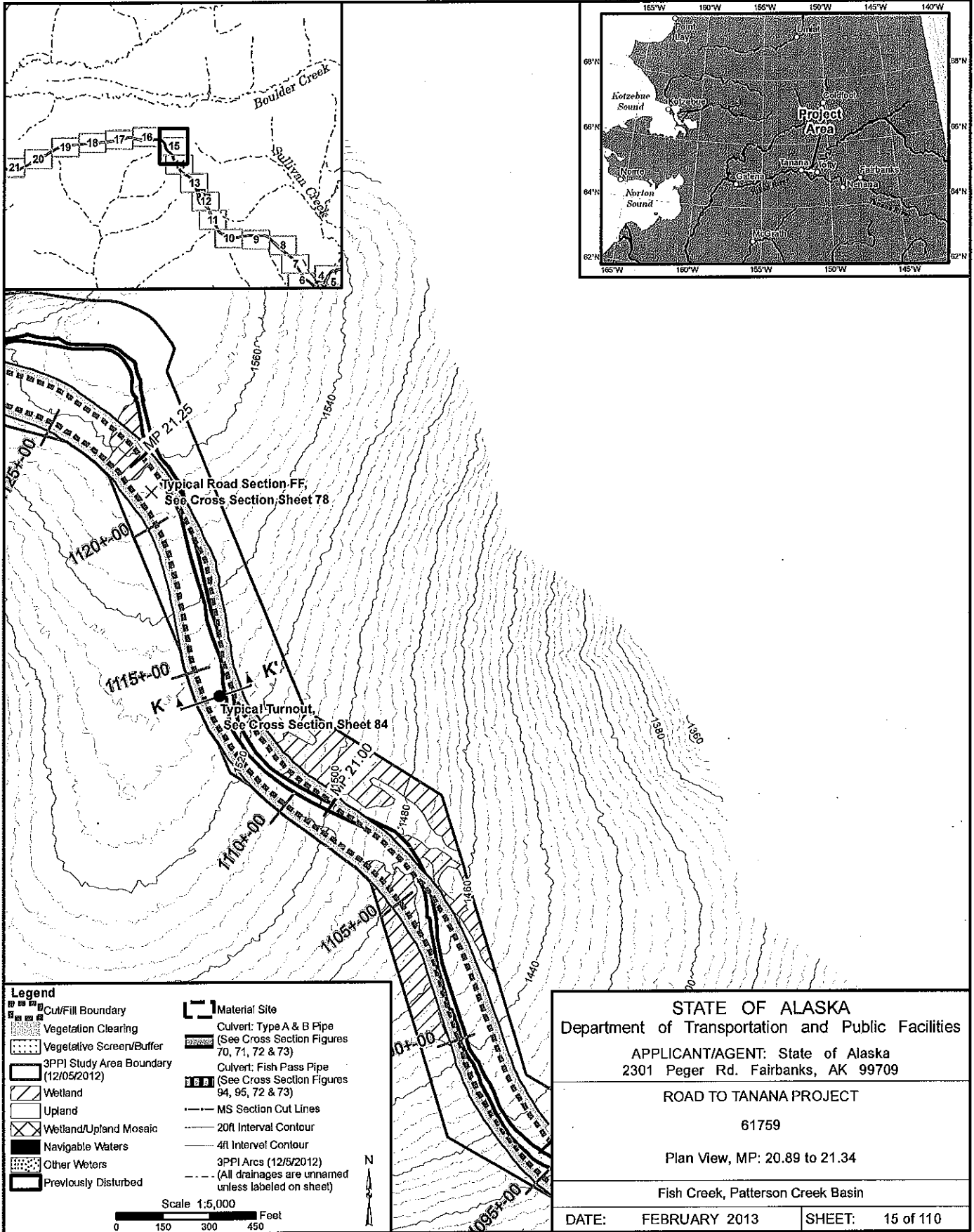
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<p>STATE OF ALASKA Department of Transportation and Public Facilities</p>	
<p>APPLICANT/AGENT: State of Alaska 2301 Peger Rd. Fairbanks, AK 99709</p>	
<p>ROAD TO TANANA PROJECT</p>	
<p>61759</p>	
<p>Plan View, MP: 20.41 to 20.89</p>	
<p>Patterson Creek Basin</p>	
<p>DATE: FEBRUARY 2013</p>	<p>SHEET: 14 of 110</p>

<p>Legend</p> <ul style="list-style-type: none"> Cut/Fill Boundary Vegetation Clearing Vegetative Screen/Buffer 3PPI Study Area Boundary (12/05/2012) Wetland Upland Wetland/Upland Mosaic Navigable Waters Other Waters Previously Disturbed 	<ul style="list-style-type: none"> Material Site Culvert: Type A & B Pipe (See Cross Section Figures 70, 71, 72 & 73) Culvert: Fish Pass Pipe (See Cross Section Figures 94, 95, 72 & 73) MS Section Cut Lines 20R Interval Contour 4ft Interval Contour 3PPI Arcs (12/5/2012) (All drainages are unnamed unless labeled on sheet)
<p>Scale 1:5,000</p> <p>0 150 300 450 Feet</p>	
<p>N</p>	

POA-2013-50, Yukon River

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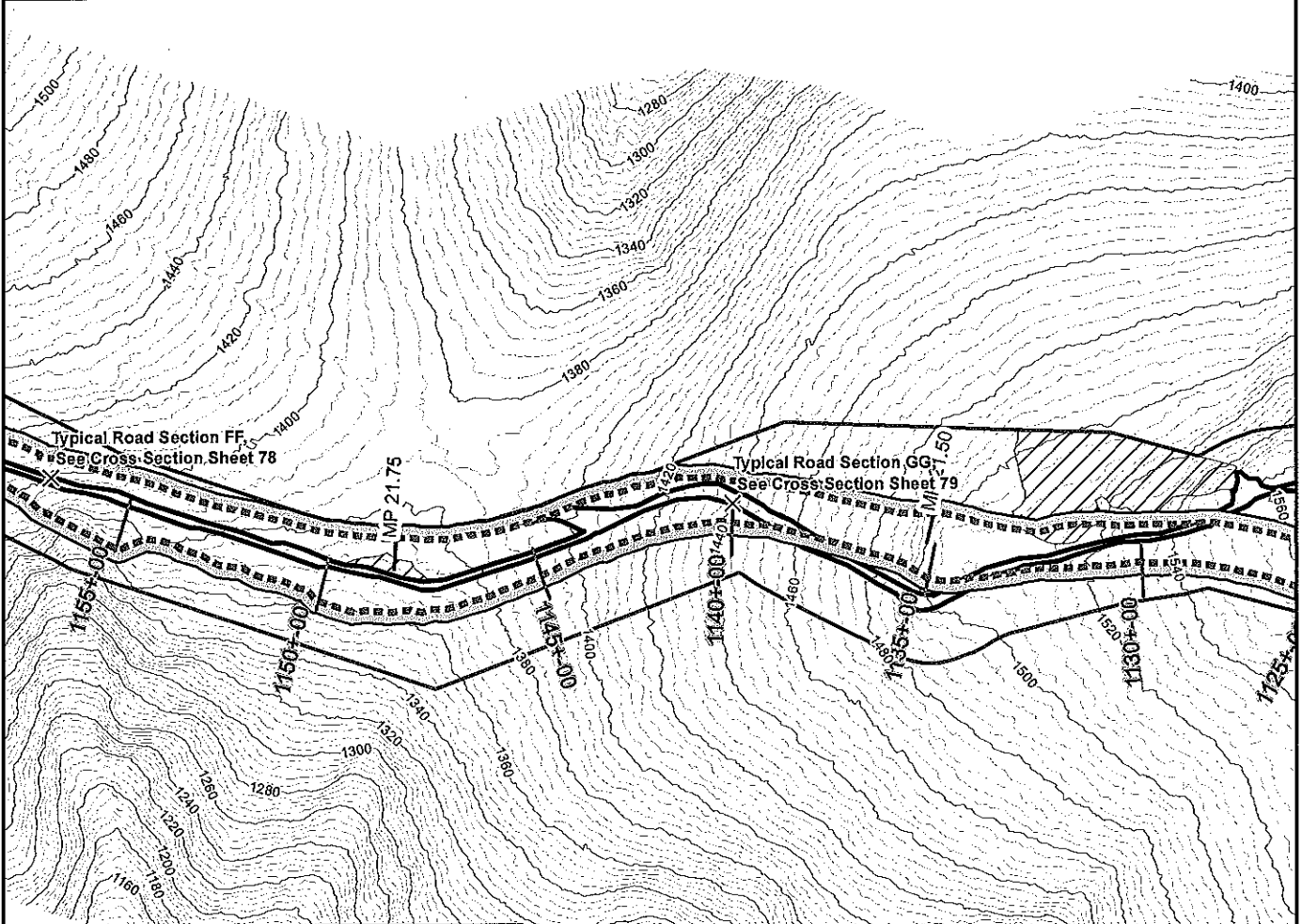
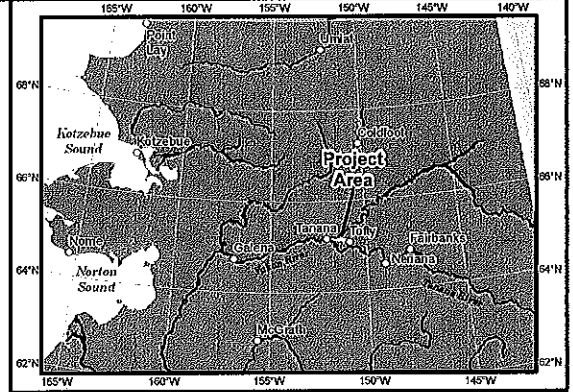
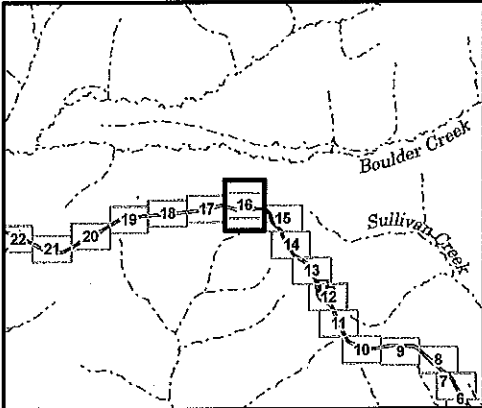


	Cut/Fill Boundary		Material Site
	Vegetation Clearing		Culvert: Type A & B Pipe (See Cross Section Figures 70, 71, 72 & 73)
	Vegetative Screen/Buffer		Culvert: Fish Pass Pipe (See Cross Section Figures 94, 95, 72 & 73)
	3PPI Study Area Boundary (12/05/2012)		MS Section Cut Lines
	Wetland		20ft Interval Contour
	Upland		4ft Interval Contour
	Wetland/Upland Mosaic		3PPI Arcs (12/5/2012) (All drainages are unnamed unless labeled on sheet)
	Navigable Waters		
	Other Wetters		
	Previously Disturbed		

Scale 1:5,000
0 150 300 450 Feet

STATE OF ALASKA Department of Transportation and Public Facilities	
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ROAD TO TANANA PROJECT 61759 Plan View, MP: 20.89 to 21.34	
Fish Creek, Patterson Creek Basin	
DATE: FEBRUARY 2013	SHEET: 15 of 110

POA-2013-50, Yukon River



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Legend

Scale 1:5,000
0 150 300 450 Feet

STATE OF ALASKA
Department of Transportation and Public Facilities

APPLICANT/AGENT: State of Alaska
2301 Peger Rd. Fairbanks, AK 99709

ROAD TO TANANA PROJECT

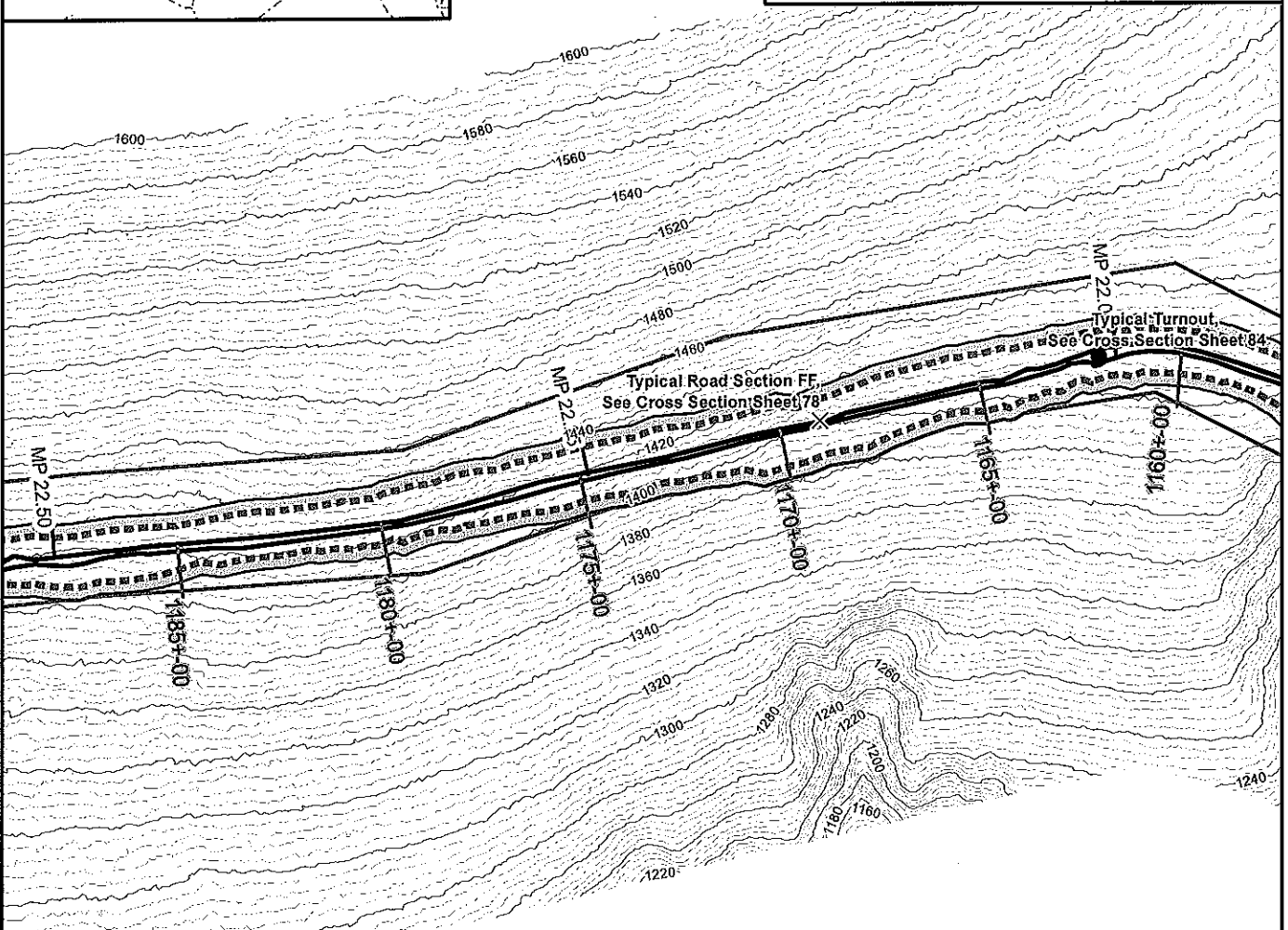
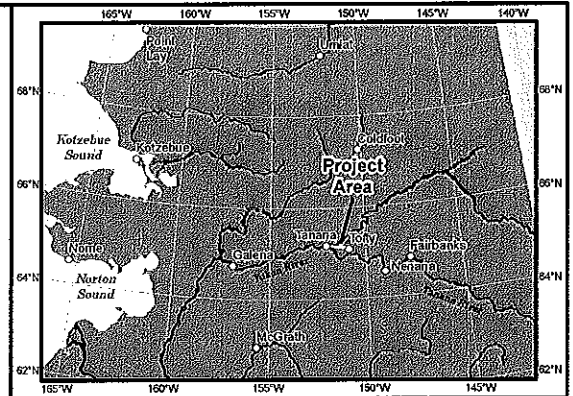
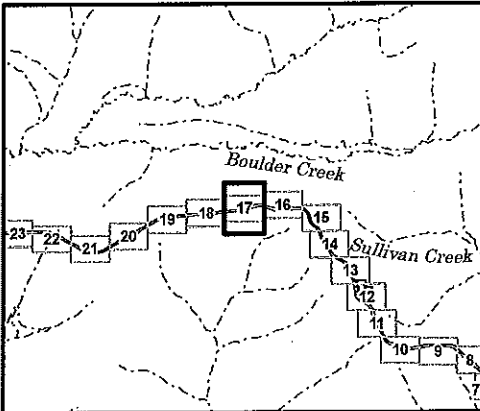
61759

Plan View, MP: 21.34 to 21.93

Fish Creek, Patterson Creek Basin

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POA-2013-50, Yukon River



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Legend

	Cut/Fill Boundary		Material Site
	Vegetation Clearing		Culvert: Type A & B Pipe (See Cross Section Figures 70, 71, 72 & 73)
	Vegetative Screen/Buffer		Culvert: Fish Pass Pipe (See Cross Section Figures 94, 95, 72 & 73)
	3PPI Study Area Boundary (12/05/2012)		MS Section Cut Lines
	Wetland		20ft Interval Contour
	Upland		4ft Interval Contour
	Wetland/Upland Mosaic		3PPI Arcs (12/5/2012) (All drainages are unnamed unless labeled on sheet)
	Navigable Waters		
	Other Waters		
	Previously Disturbed		

Scale 1:5,000 Feet

0 150 300 450

N

STATE OF ALASKA
Department of Transportation and Public Facilities

APPLICANT/AGENT: State of Alaska
2301 Peger Rd. Fairbanks, AK 99709

ROAD TO TANANA PROJECT

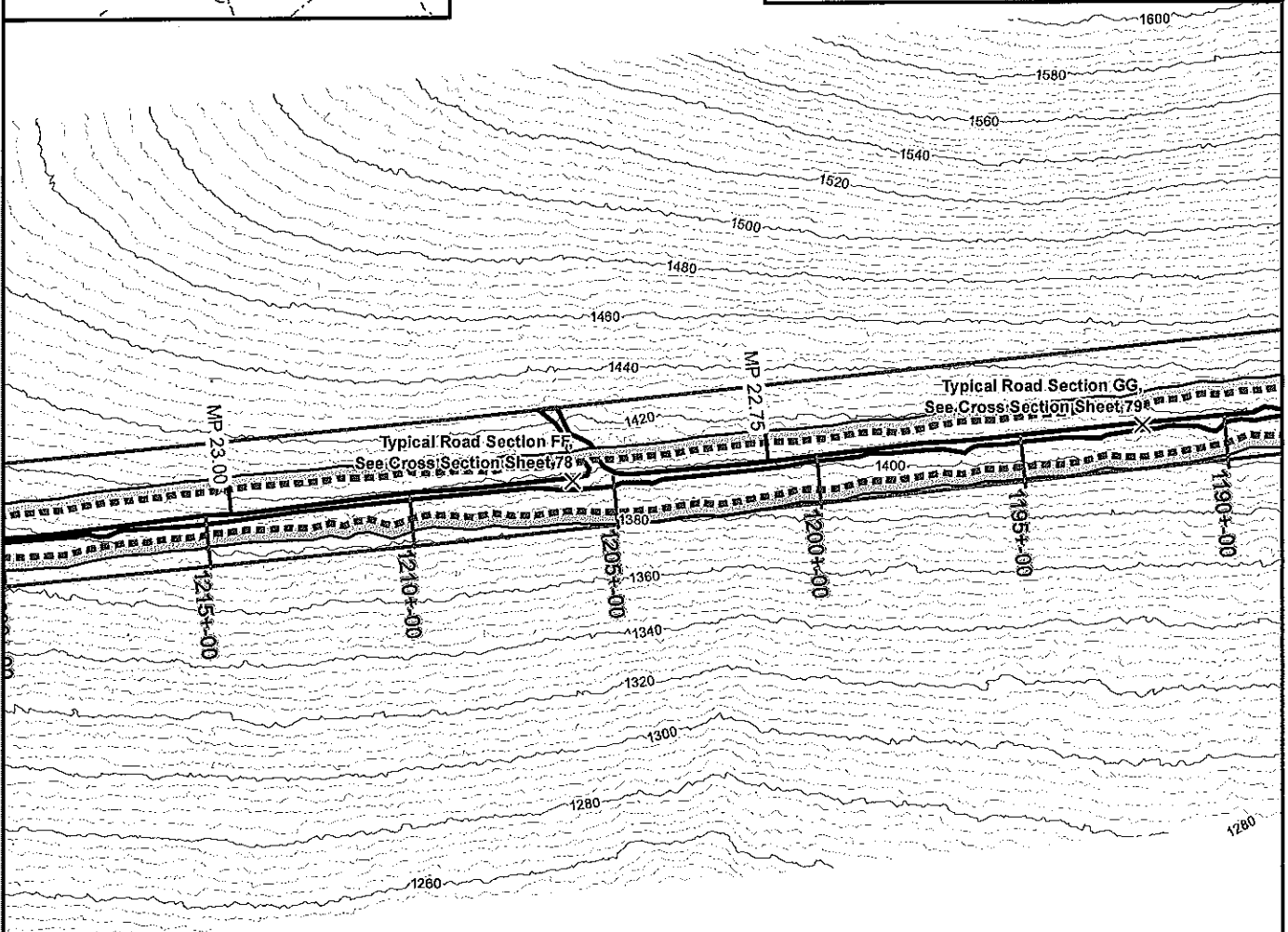
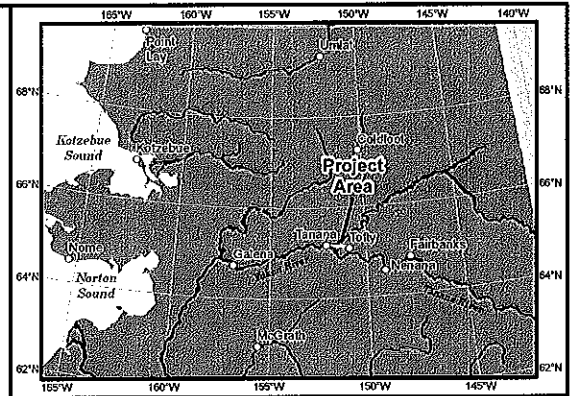
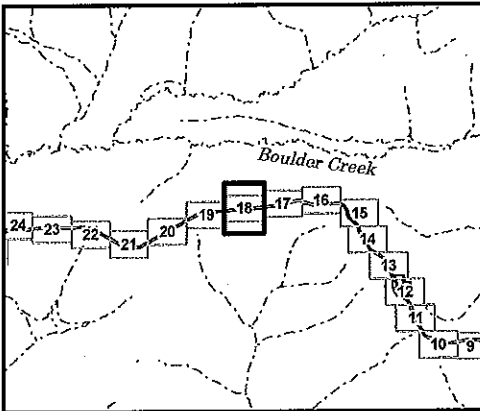
61759

Plan View, MP: 21.93 to 22.52

Fish Creek, Patterson Creek Basin

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POA-2013-50, Yukon River



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Legend	
	Cut/Fill Boundary
	Vegetation Clearing
	Vegetative Screen/Buffer
	3PPI Study Area Boundary (12/05/2012)
	Wetland
	Upland
	Wetland/Upland Mosaic
	Navigable Waters
	Other Waters
	Previously Disturbed
	Material Site
	Culvert: Type A & B Pipe (See Cross Section Figures 70, 71, 72 & 73)
	Culvert: Fish Pass Pipe (See Cross Section Figures 94, 95, 72 & 73)
	MS Section Cut Lines
	20ft Interval Contour
	4ft Interval Contour
	3PPI Arcs (12/5/2012)
	(All drainages are unnamed unless labeled on sheet)

Scale 1:5,000
0 150 300 450 Feet

STATE OF ALASKA
Department of Transportation and Public Facilities

APPLICANT/AGENT: State of Alaska
2301 Peger Rd. Fairbanks, AK 99709

ROAD TO TANANA PROJECT

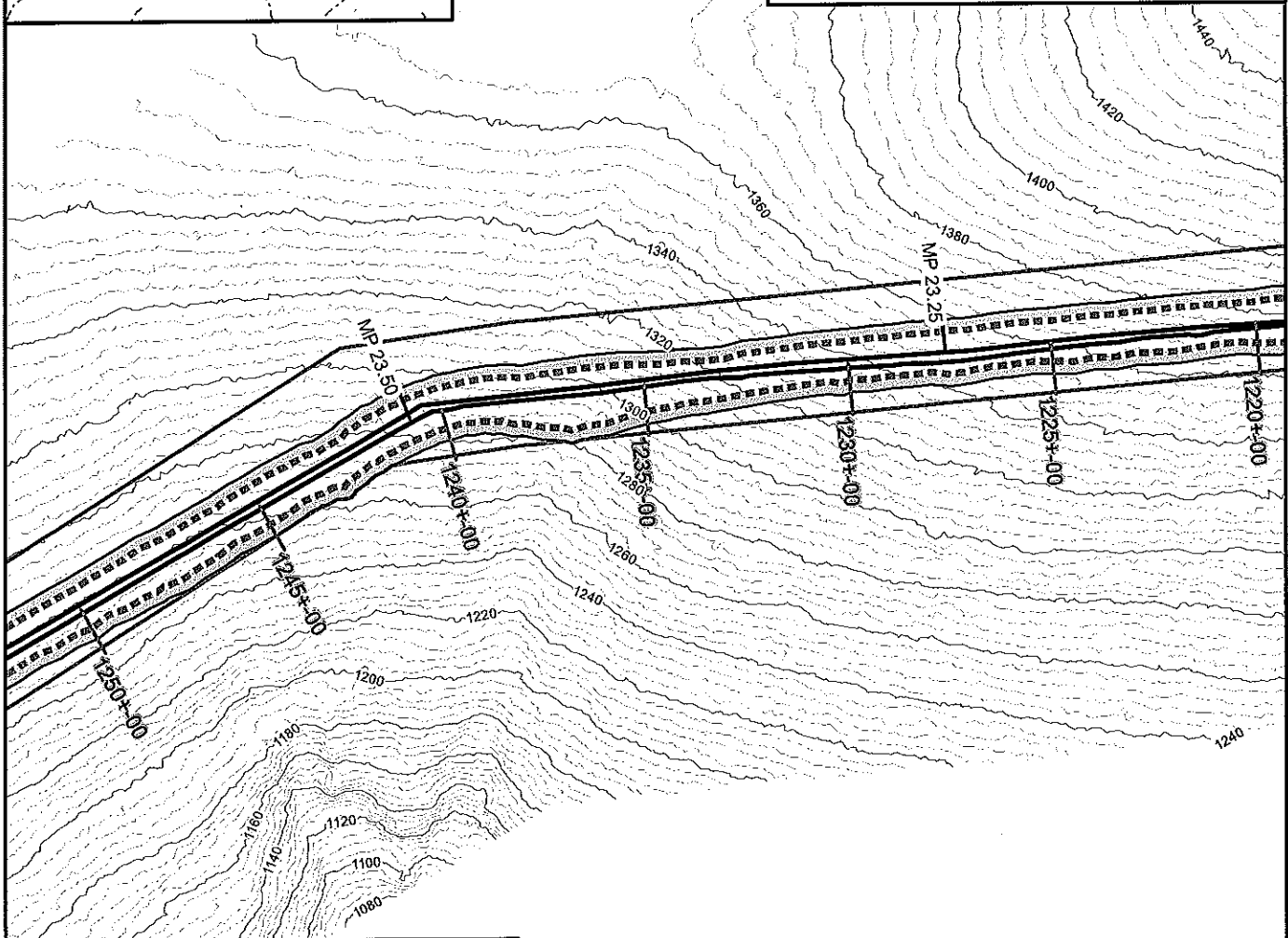
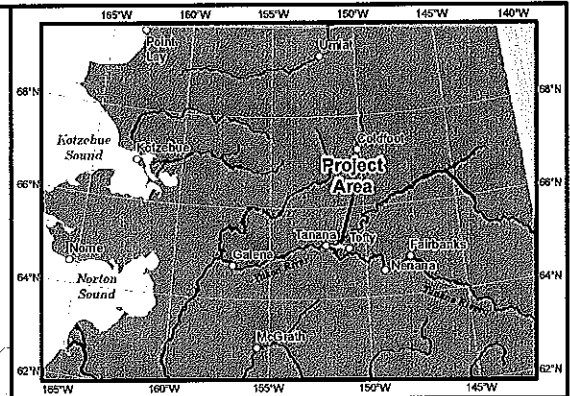
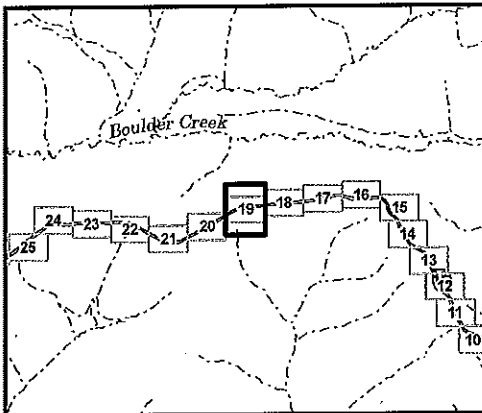
61759

Plan View, MP: 22.52 to 23.1

Fish Creek, Patterson Creek Basin

DATE: FEBRUARY 2013	SHEET: 18 of 110
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POA-2013-50, Yukon River



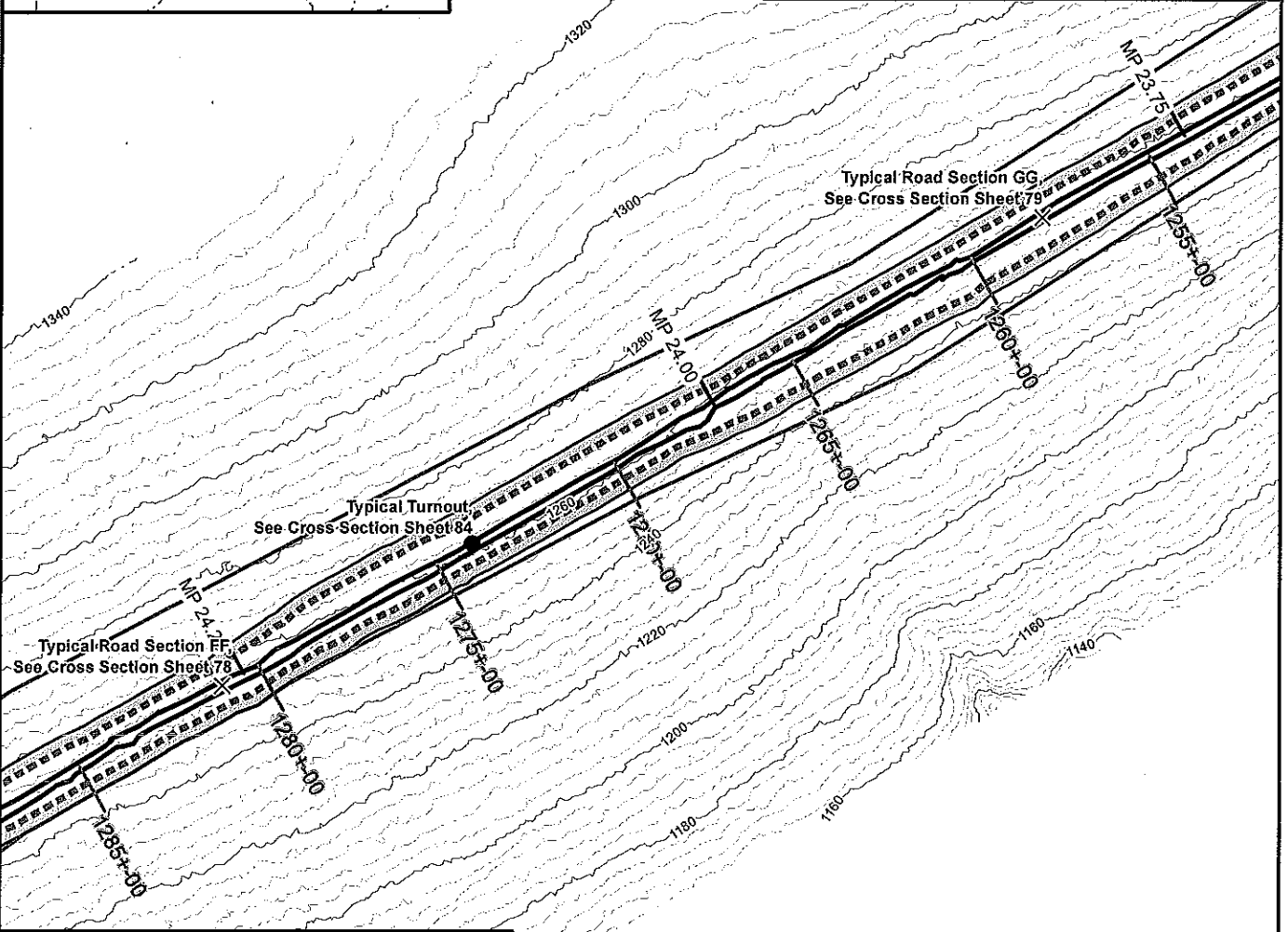
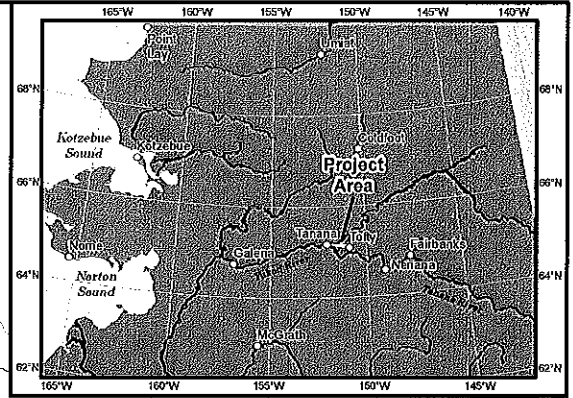
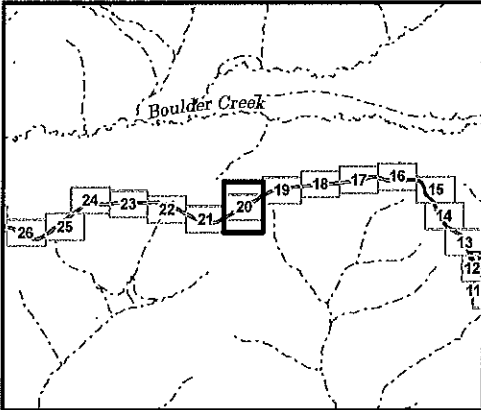
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Cut/Fill Boundary	Material Site
Vegetation Clearing	Culvert: Type A & B Pipe (See Cross Section Figures 70, 71, 72 & 73)
Vegetative Screen/Buffer	Culvert: Fish Pass Pipe (See Cross Section Figures 94, 95, 72 & 73)
3PPI Study Area Boundary (12/05/2012)	MS Section Cut Lines
Wetland	20ft Interval Contour
Upland	4ft Interval Contour
Wetland/Upland Mosaic	3PPI Arcs (12/5/2012) (All drainages are unnamed unless labeled on sheet)
Navigable Waters	
Other Waters	
Previously Disturbed	

Scale 1:5,000
0 150 300 450 Feet

STATE OF ALASKA Department of Transportation and Public Facilities APPLICANT/AGENT: State of Alaska 2301 Peger Rd. Fairbanks, AK 99709	
ROAD TO TANANA PROJECT 61759 Plan View, MP: 23.1 to 23.71	
Fish Creek, Patterson Creek Basin	
DATE: FEBRUARY 2013	SHEET: 19 of 110

POA-2013-50, Yukon River



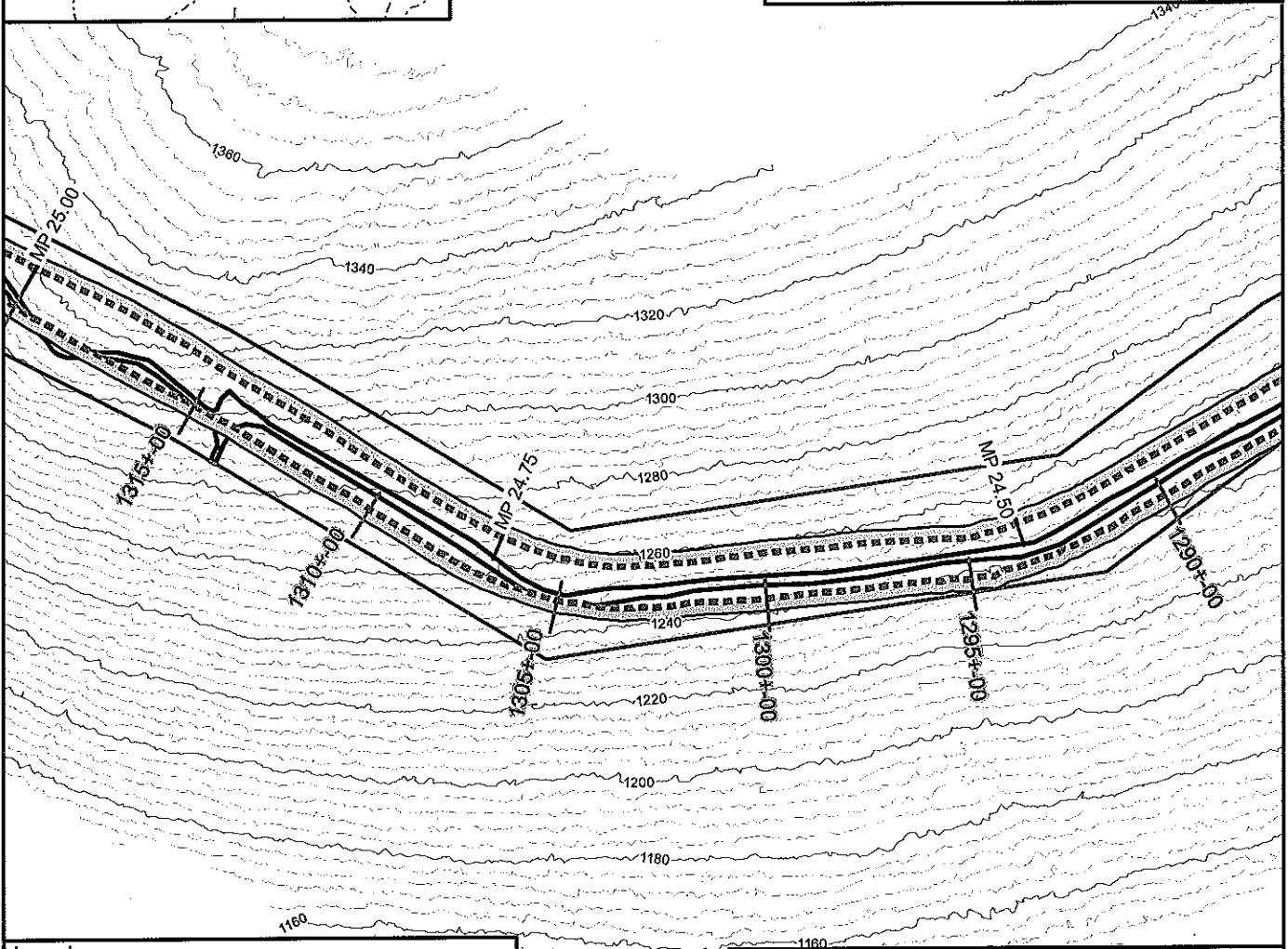
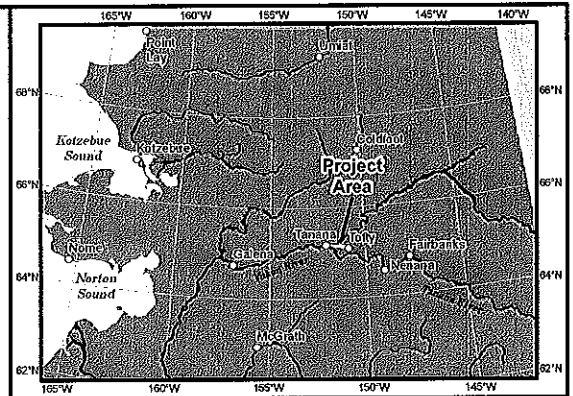
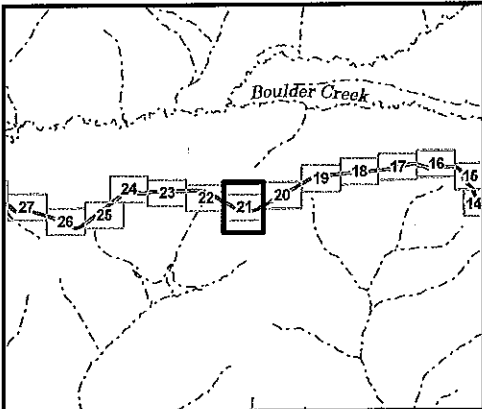
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	Culvert: Type A & B Pipe (See Cross Section Figures 70, 71, 72 & 73)
	Culvert: Fish Pass Pipe (See Cross Section Figures 94, 95, 72 & 73)
	(All drainages are unnamed unless labeled on sheet)

Scale 1:5,000
0 150 300 450 Feet

STATE OF ALASKA Department of Transportation and Public Facilities APPLICANT/AGENT: State of Alaska 2301 Peger Rd. Fairbanks, AK 99709	
ROAD TO TANANA PROJECT 61759 Plan View, MP: 23.71 to 24.37 Fish Creek, Patterson Creek Basin	
DATE: FEBRUARY 2013	SHEET: 20 of 110

POA-2013-50, Yukon River



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Legend

Cul/Fill Boundary	Material Site
Vegetation Clearing	Culvert: Type A & B Pipe (See Cross Section Figures 70, 71, 72 & 73)
Vegetative Screen/Buffer	Culvert: Fish Pass Pipe (See Cross Section Figures 94, 95, 72 & 73)
3PPI Study Area Boundary (12/05/2012)	MS Section Cut Lines
Wetland	20ft Interval Contour
Upland	4ft Interval Contour
Wetland/Upland Mosaic	3PPI Arcs (12/5/2012)
Navigable Waters	(All drainages are unnamed unless labeled on sheet)
Other Waters	
Previously Disturbed	

Scale 1:5,000
0 150 300 450 Feet

STATE OF ALASKA
Department of Transportation and Public Facilities

APPLICANT/AGENT: State of Alaska
2301 Peger Rd. Fairbanks, AK 99709

ROAD TO TANANA PROJECT

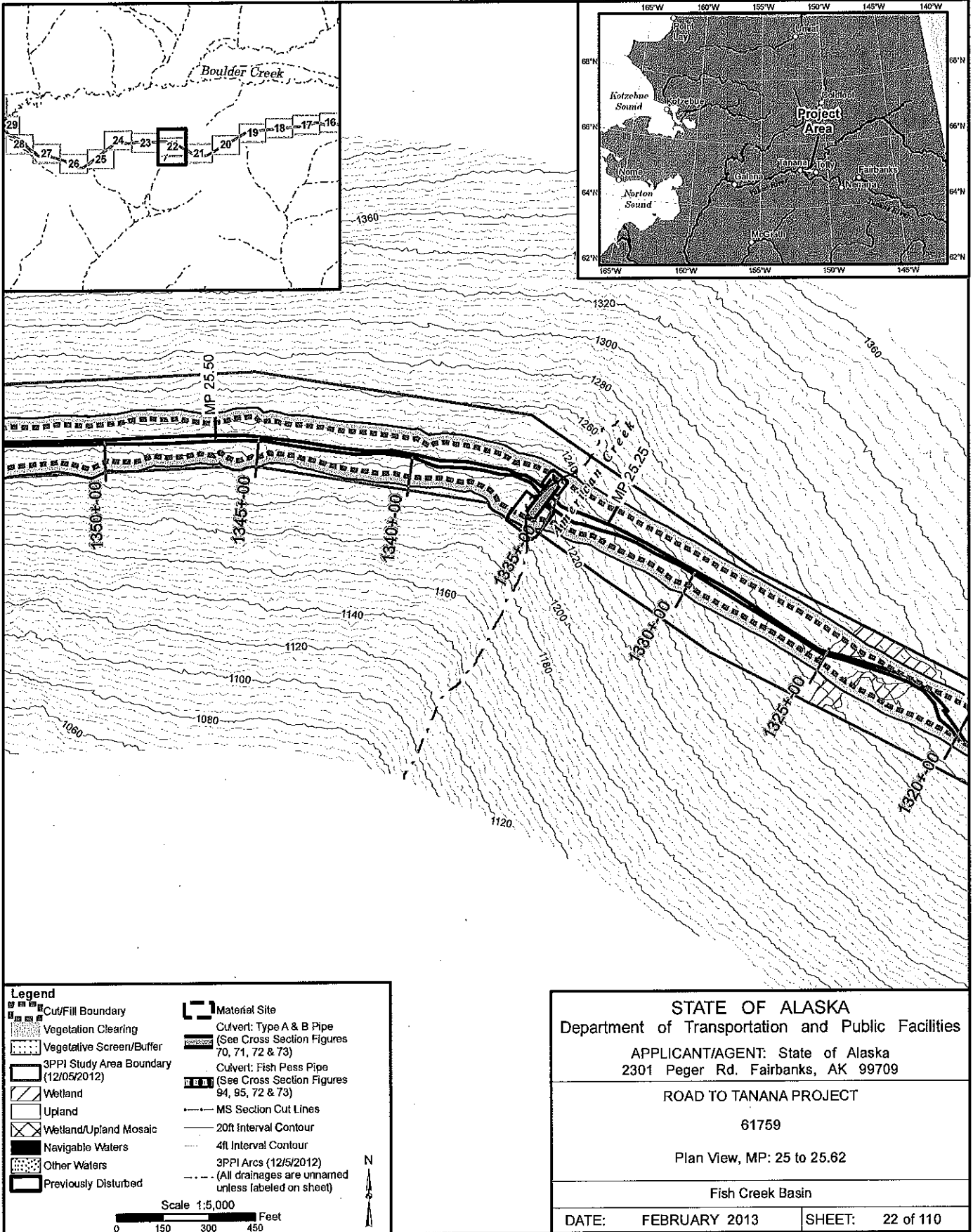
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Plan View, MP: 24.37 to 25

Fish Creek, Patterson Creek Basin

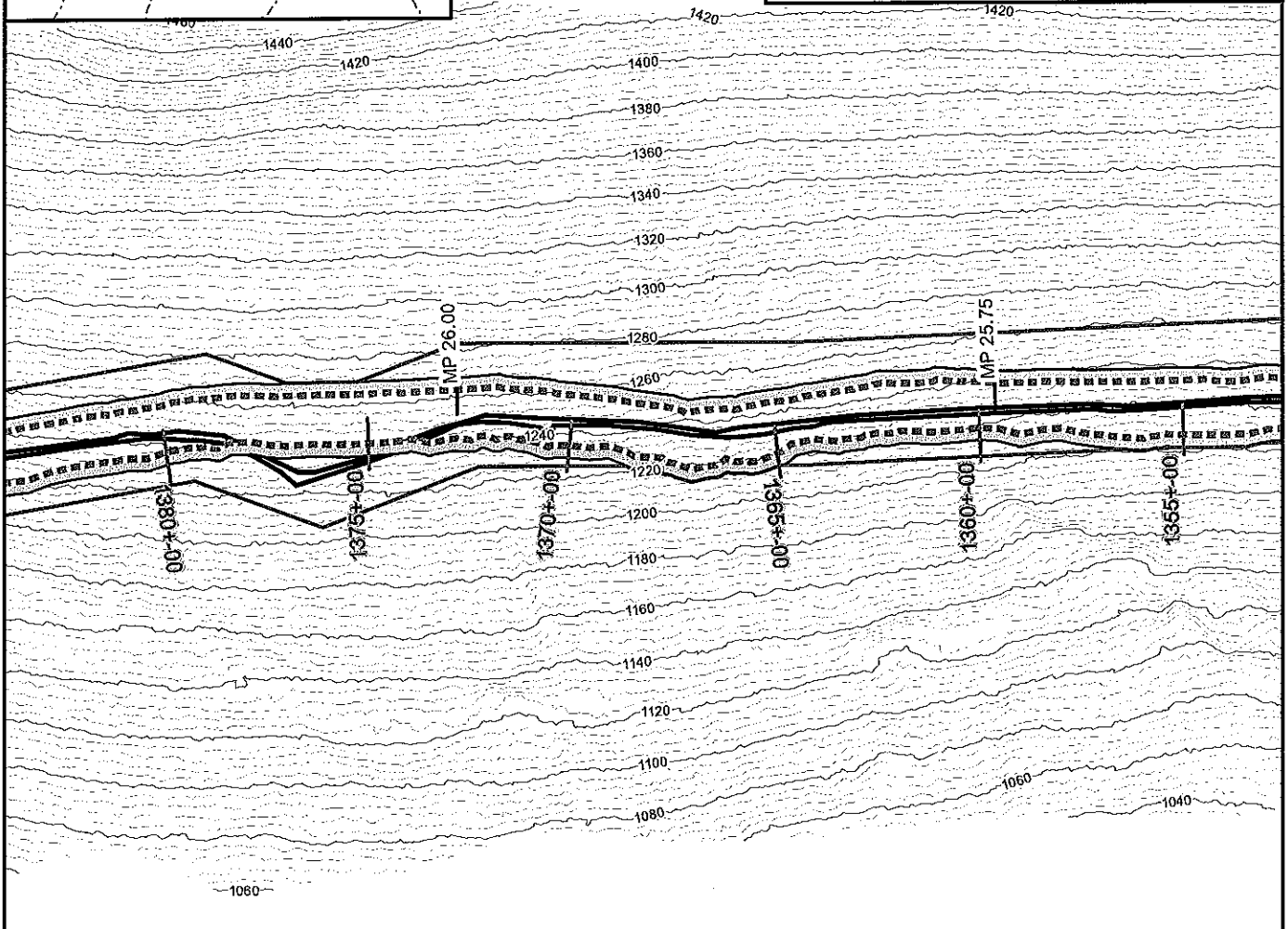
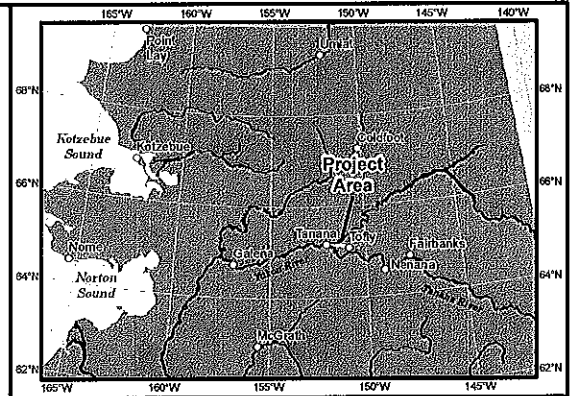
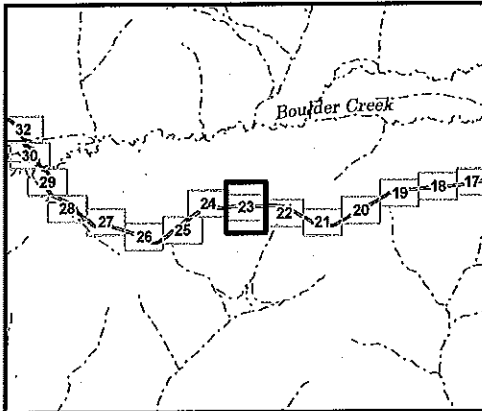
DATE: FEBRUARY 2013	SHEET: 21 of 110
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POA-2013-50, Yukon River



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POA-2013-50, Yukon River



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Legend

	Cut/Fill Boundary		Material Site
	Vegetation Clearing		Culvert: Type A & B Pipe (See Cross Section Figures 70, 71, 72 & 73)
	Vegetative Screen/Buffer		Culvert: Fish Pass Pipe (See Cross Section Figures 94, 95, 72 & 73)
	3PPI Study Area Boundary (12/05/2012)		MS Section Cut Lines
	Wetland		20ft Interval Contour
	Upland		4ft Interval Contour
	Wetland/Upland Mosaic		3PPI Arcs (12/5/2012) (All drainages are unnamed unless labeled on sheet)
	Navigable Waters		
	Other Waters		
	Previously Disturbed		

Scale 1:5,000
0 150 300 450 Feet

STATE OF ALASKA
Department of Transportation and Public Facilities

APPLICANT/AGENT: State of Alaska
2301 Peger Rd. Fairbanks, AK 99709

ROAD TO TANANA PROJECT

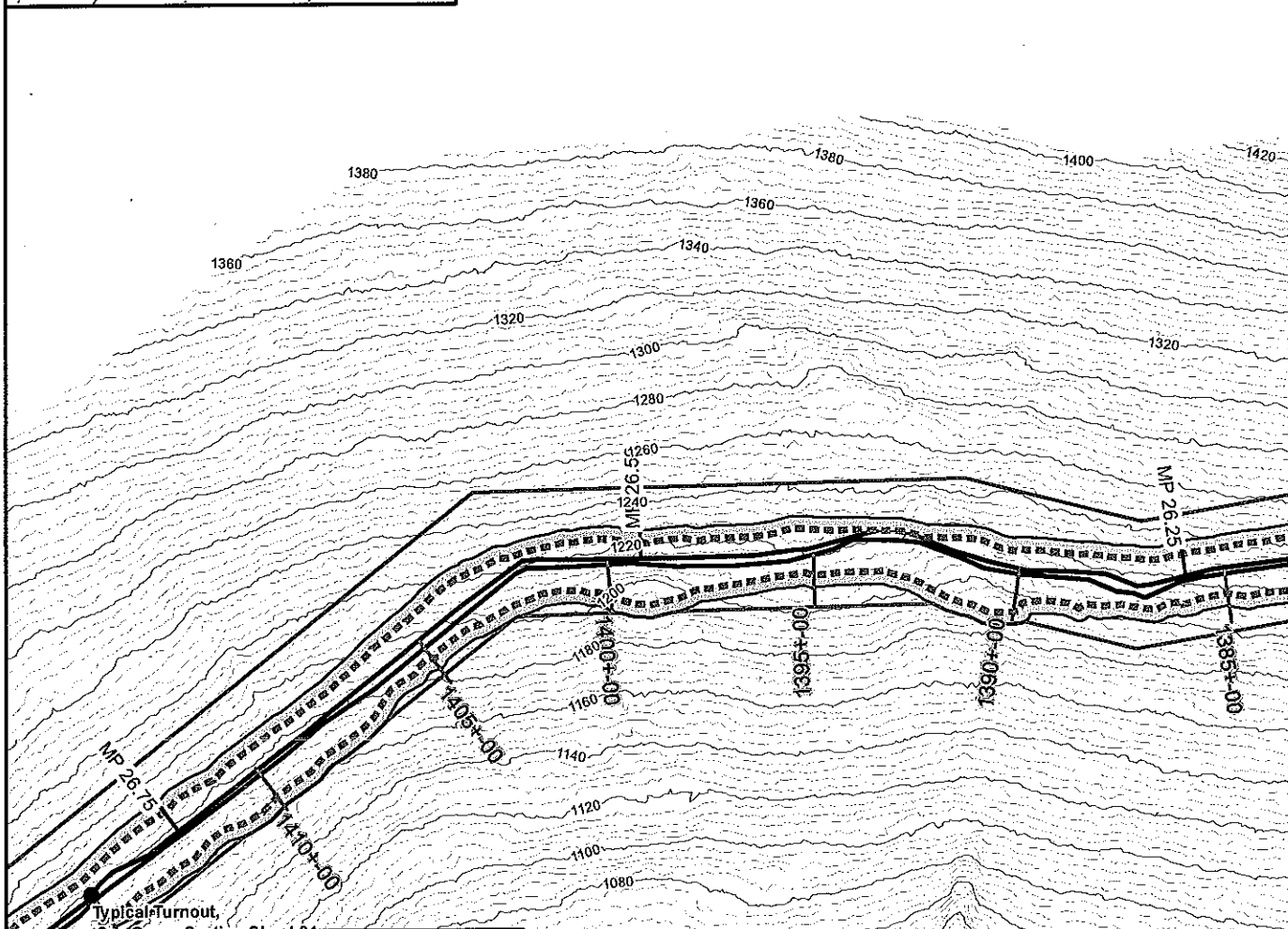
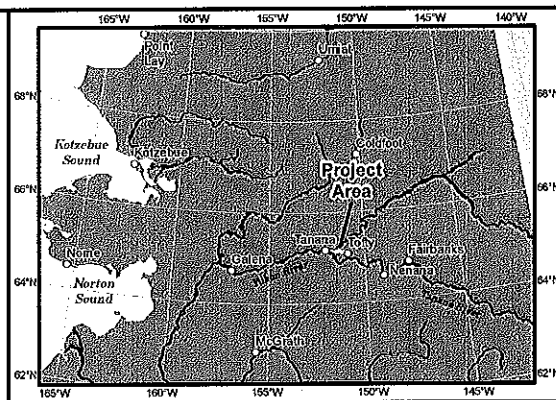
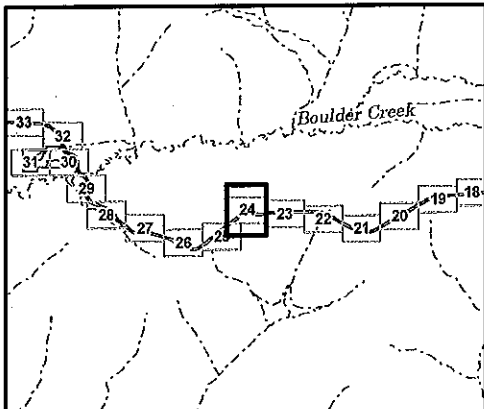
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Plan View, MP: 25.62 to 26.2

Fish Creek Basin

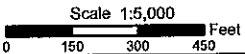
DATE: FEBRUARY 2013	SHEET: 23 of 110
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POA-2013-50, Yukon River



Legend

	Cut/Fill Boundary		Material Site
	Vegetation Clearing		Culvert: Type A & B Pipe (See Cross Section Figures 70, 71, 72 & 73)
	Vegetative Screen/Buffer		Culvert: Fish Pass Pipe (See Cross Section Figures 94, 95, 72 & 73)
	3PPI Study Area Boundary (12/05/2012)		MS Section Cut Lines
	Wetland		20ft Interval Contour
	Upland		4ft Interval Contour
	Wetland/Upland Mosaic		3PPI Arcs (12/5/2012) (All drainages are unnamed unless labeled on sheet)
	Navigable Waters		
	Other Waters		
	Previously Disturbed		



STATE OF ALASKA
 Department of Transportation and Public Facilities

APPLICANT/AGENT: State of Alaska
 2301 Peger Rd. Fairbanks, AK 99709

ROAD TO TANANA PROJECT

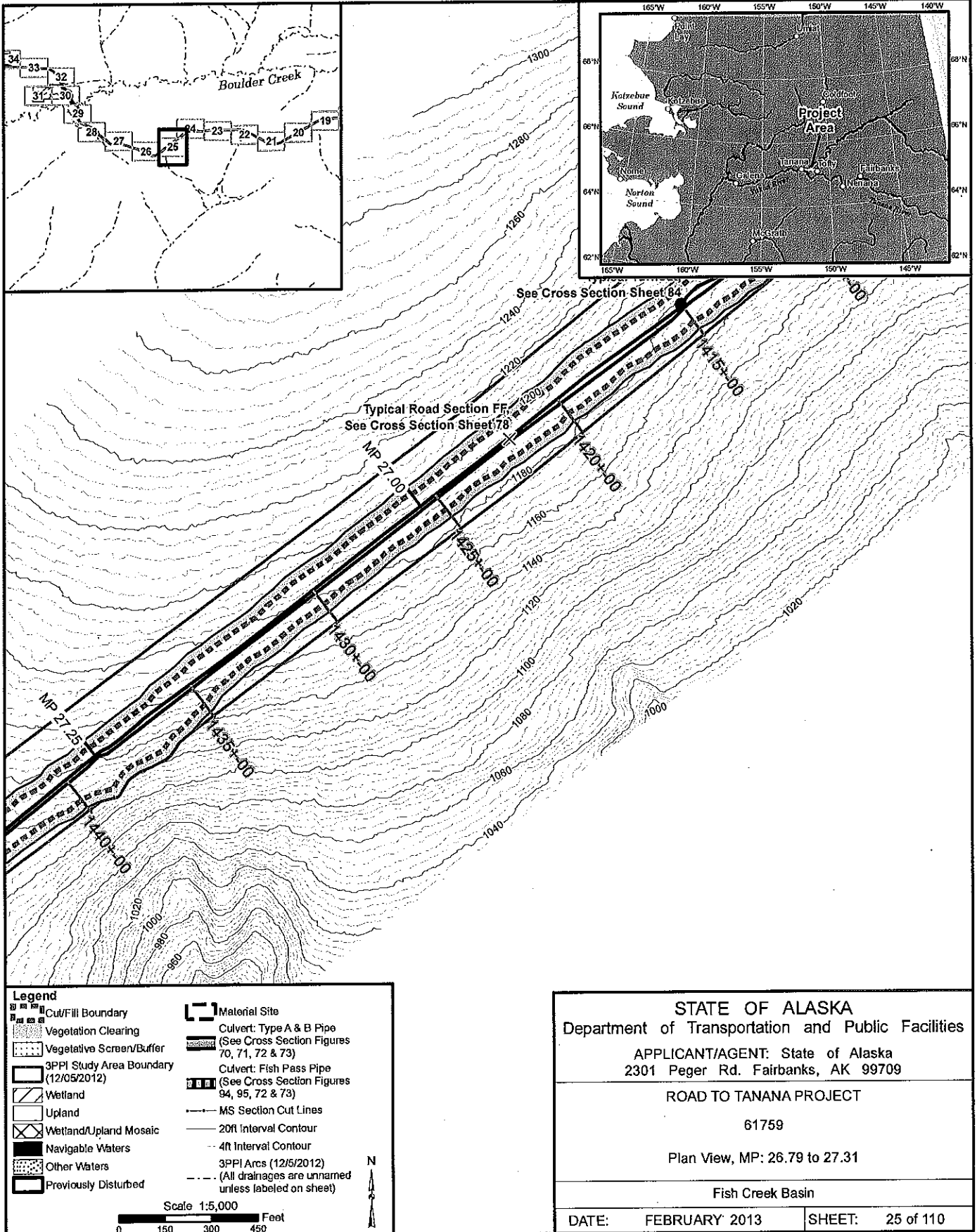
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Plan View, MP: 26.2 to 26.79

Fish Creek Basin

DATE: FEBRUARY 2013	SHEET: 24 of 110
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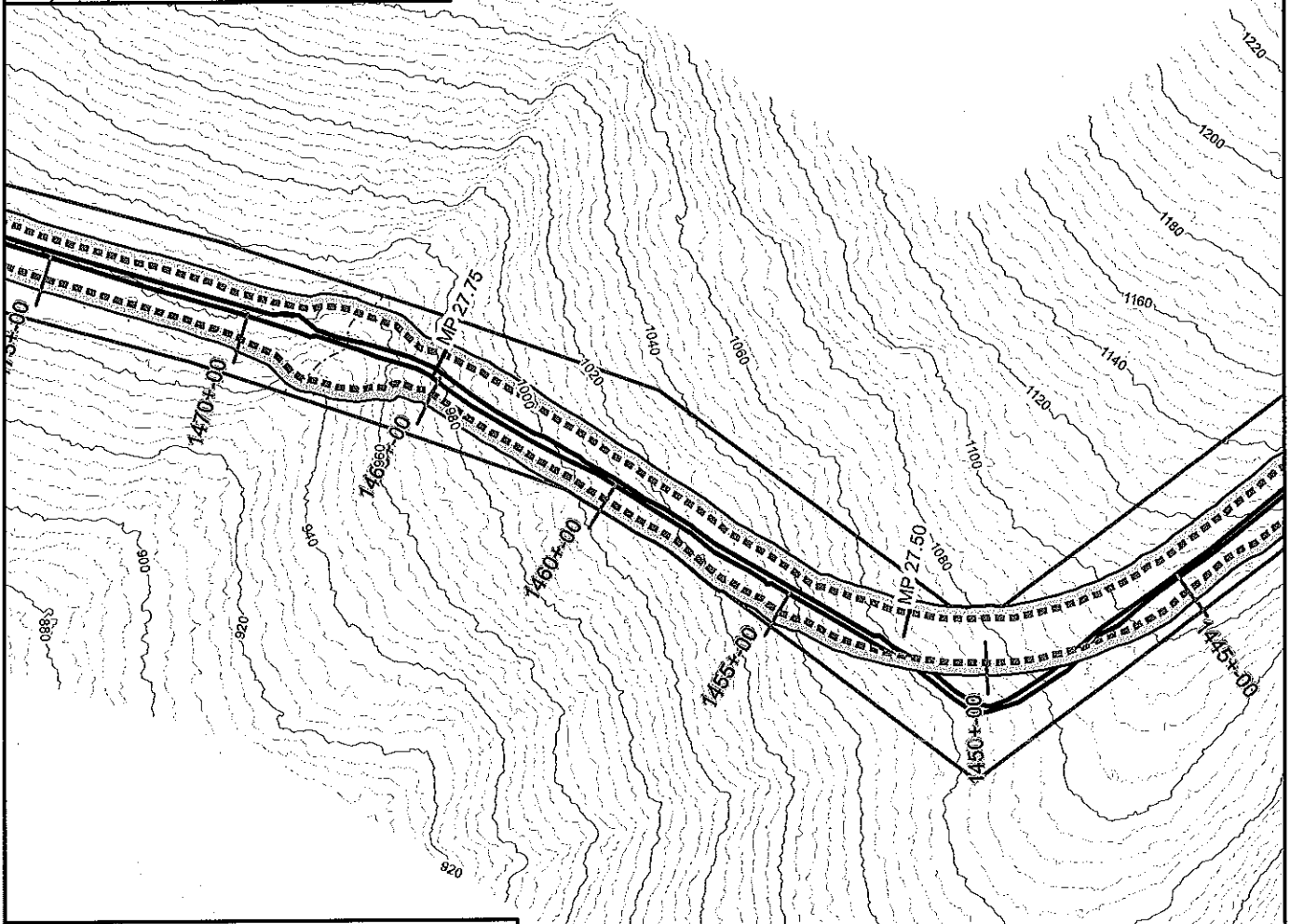
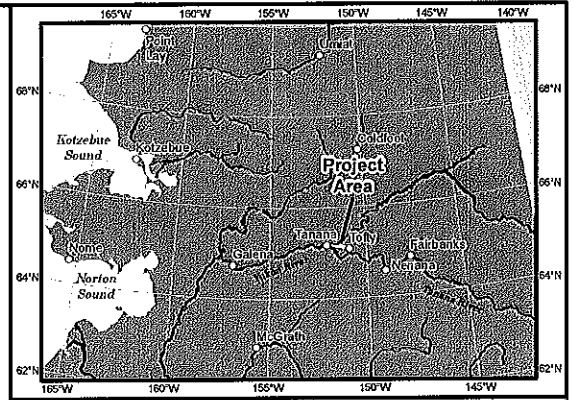
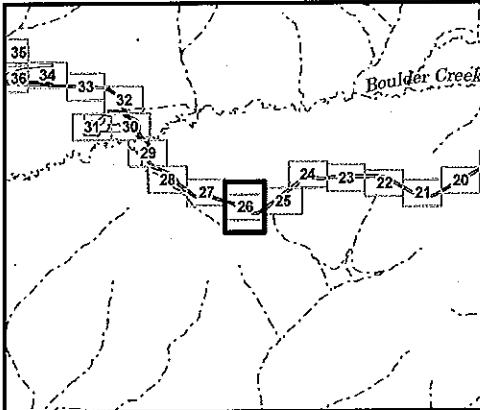


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	Cut/Fill Boundary		Material Site
	Vegetation Clearing		Culvert: Type A & B Pipe (See Cross Section Figures 70, 71, 72 & 73)
	Vegetative Screen/Buffer		Culvert: Fish Pass Pipe (See Cross Section Figures 94, 95, 72 & 73)
	3PPI Study Area Boundary (12/05/2012)		MS Section Cut Lines
	Wetland		20ft Interval Contour
	Upland		4ft Interval Contour
	Wetland/Upland Mosaic		3PPI Arcs (12/5/2012)
	Navigable Waters		(All drainages are unnamed unless labeled on sheet)
	Other Waters		
	Previously Disturbed		

Scale 1:5,000
0 150 300 450 Feet

STATE OF ALASKA Department of Transportation and Public Facilities	
APPLICANT/AGENT: State of Alaska 2301 Peger Rd. Fairbanks, AK 99709	
ROAD TO TANANA PROJECT	
61759	
Plan View, MP: 26.79 to 27.31	
Fish Creek Basin	
DATE: FEBRUARY 2013	SHEET: 25 of 110



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Legend

	Cut/Fill Boundary		Material Site
	Vegetation Clearing		Culvert: Type A & B Pipe (See Cross Section Figures 70, 71, 72 & 73)
	Vegetative Screen/Buffer		Culvert: Fish Pass Pipe (See Cross Section Figures 94, 95, 72 & 73)
	3PPI Study Area Boundary (12/05/2012)		MS Section Cut Lines
	Wetland		20ft Interval Contour
	Upland		4ft Interval Contour
	Wetland/Upland Mosaic		3PPI Arcs (12/5/2012) (All drainages are unnamed unless labeled on sheet)
	Navigable Waters		
	Other Waters		
	Previously Disturbed		

Scale 1:5,000
0 150 300 450 Feet

STATE OF ALASKA
Department of Transportation and Public Facilities

APPLICANT/AGENT: State of Alaska
2301 Peger Rd. Fairbanks, AK 99709

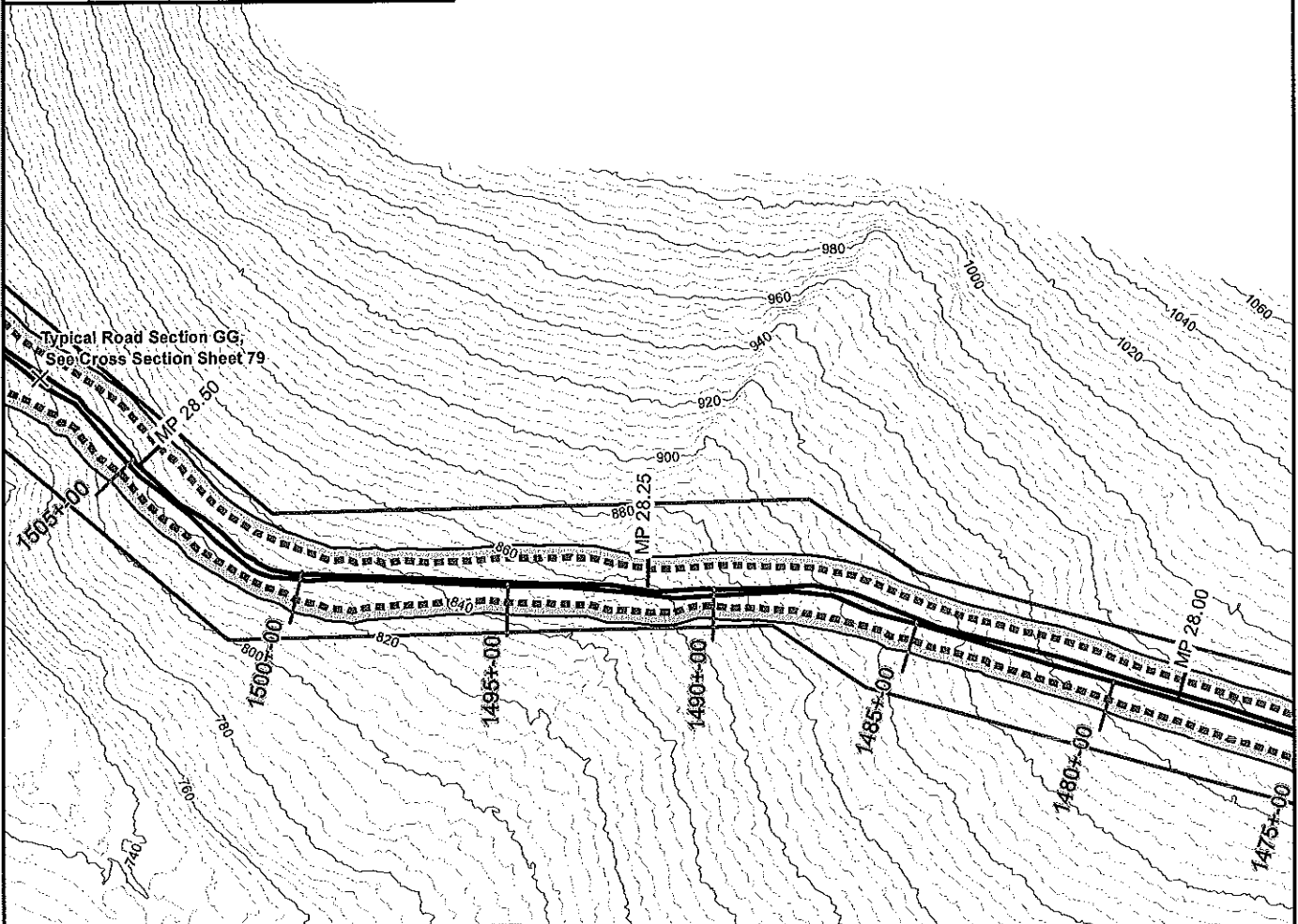
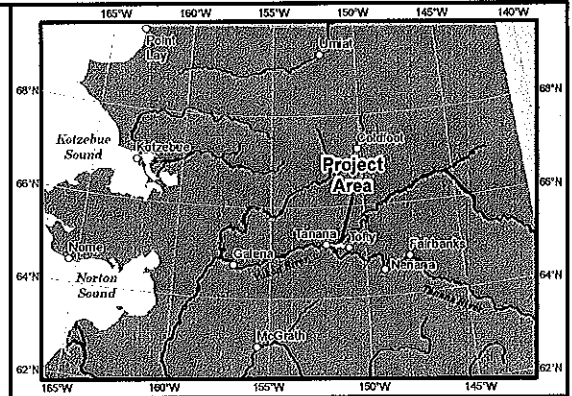
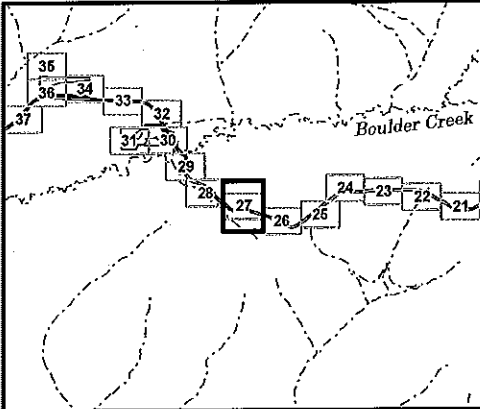
ROAD TO TANANA PROJECT

61759

Plan View, MP: 27.31 to 27.95

Fish Creek Basin

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Legend

Cut/Fill Boundary	Material Site
Vegetation Clearing	Culvert: Type A & B Pipe (See Cross Section Figures 70, 71, 72 & 73)
Vegetative Screen/Buffer	Culvert: Fish Pass Pipe (See Cross Section Figures 94, 95, 72 & 73)
3PPI Study Area Boundary (12/05/2012)	MS Section Cut Lines
Wetland	20ft Interval Contour
Upland	4ft Interval Contour
Wetland/Upland Mosaic	3PPI Arcs (12/5/2012)
Navigable Waters	(All drainages are unnamed unless labeled on sheet)
Other Waters	
Previously Disturbed	

Scale 1:5,000
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STATE OF ALASKA
Department of Transportation and Public Facilities

APPLICANT/AGENT: State of Alaska
2301 Peger Rd. Fairbanks, AK 99709

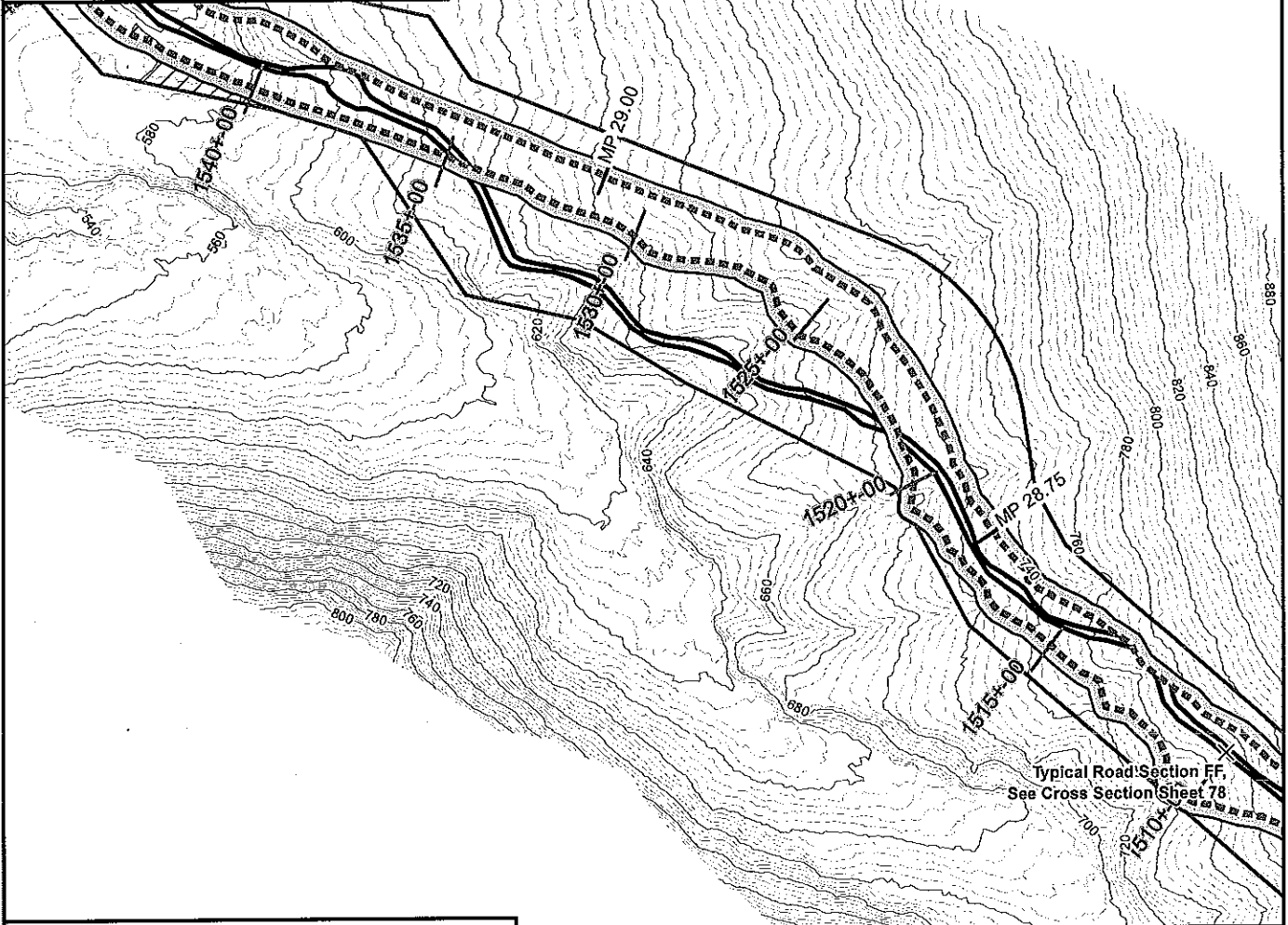
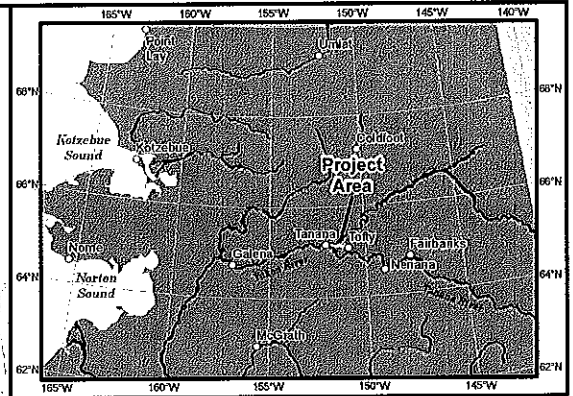
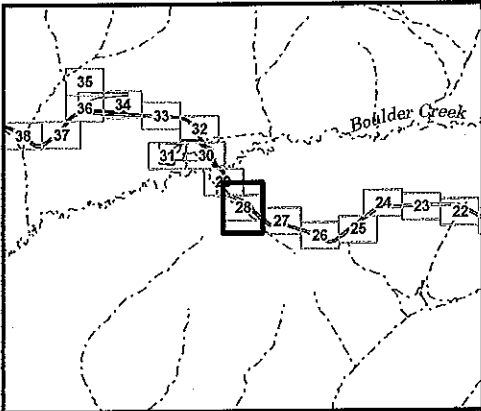
ROAD TO TANANA PROJECT

61759

Plan View, MP: 27.95 to 28.57

Fish Creek Basin

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Legend

Cut/Fill Boundary	Material Site
Vegetation Clearing	Culvert: Type A & B Pipe (See Cross Section Figures 70, 71, 72 & 73)
Vegetative Screen/Buffer	Culvert: Fish Pass Pipe (See Cross Section Figures 94, 95, 72 & 73)
3PPI Study Area Boundary (12/05/2012)	MS Section Cut Lines
Wetland	20ft Interval Contour
Upland	4ft Interval Contour
Wetland/Upland Mosaic	3PPI Arcs (12/5/2012)
Navigable Waters	(All drainages are unnamed unless labeled on sheet)
Other Waters	
Previously Disturbed	

Scale 1:5,000
0 150 300 450 Feet

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Department of Transportation and Public Facilities

APPLICANT/AGENT: State of Alaska
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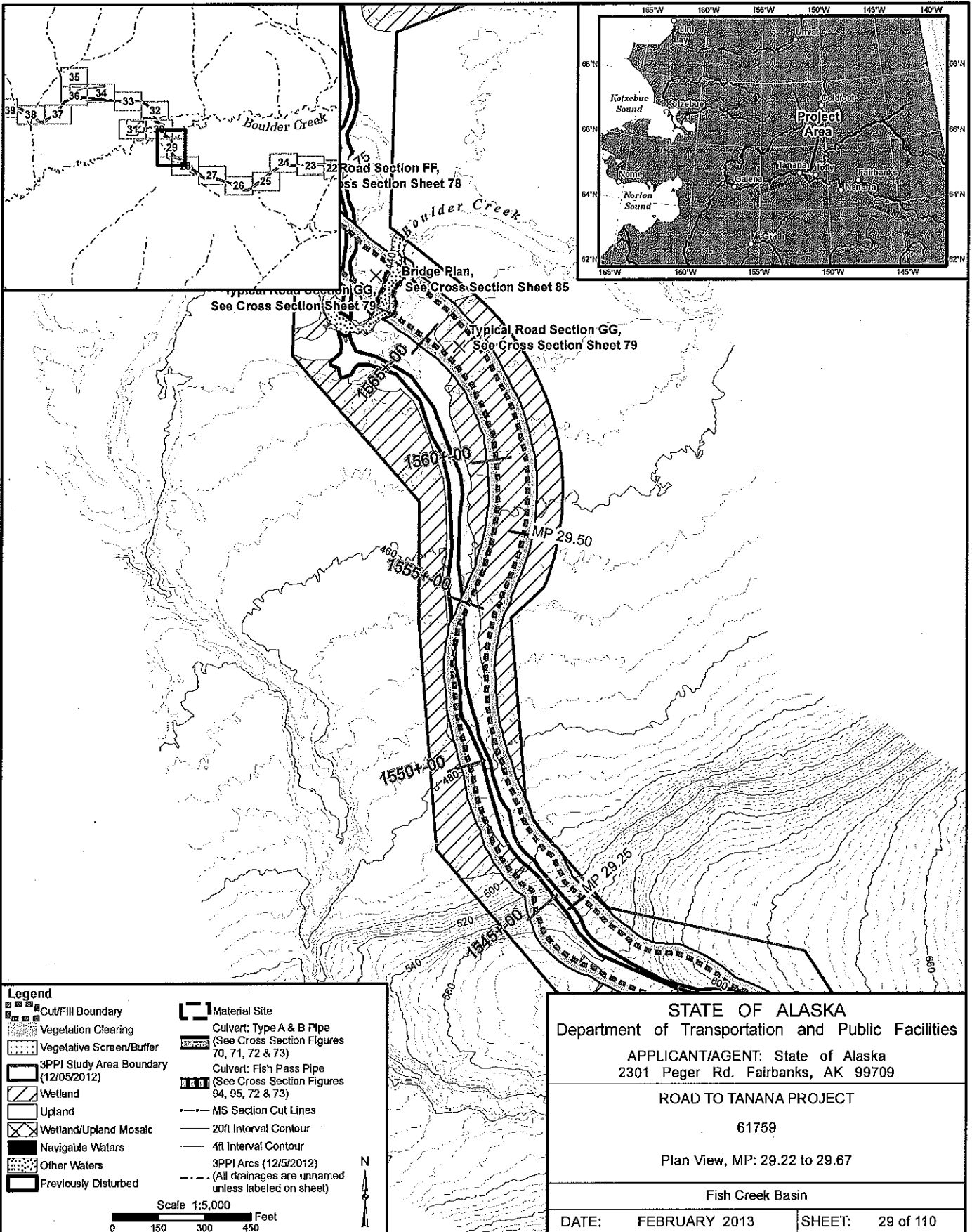
ROAD TO TANANA PROJECT

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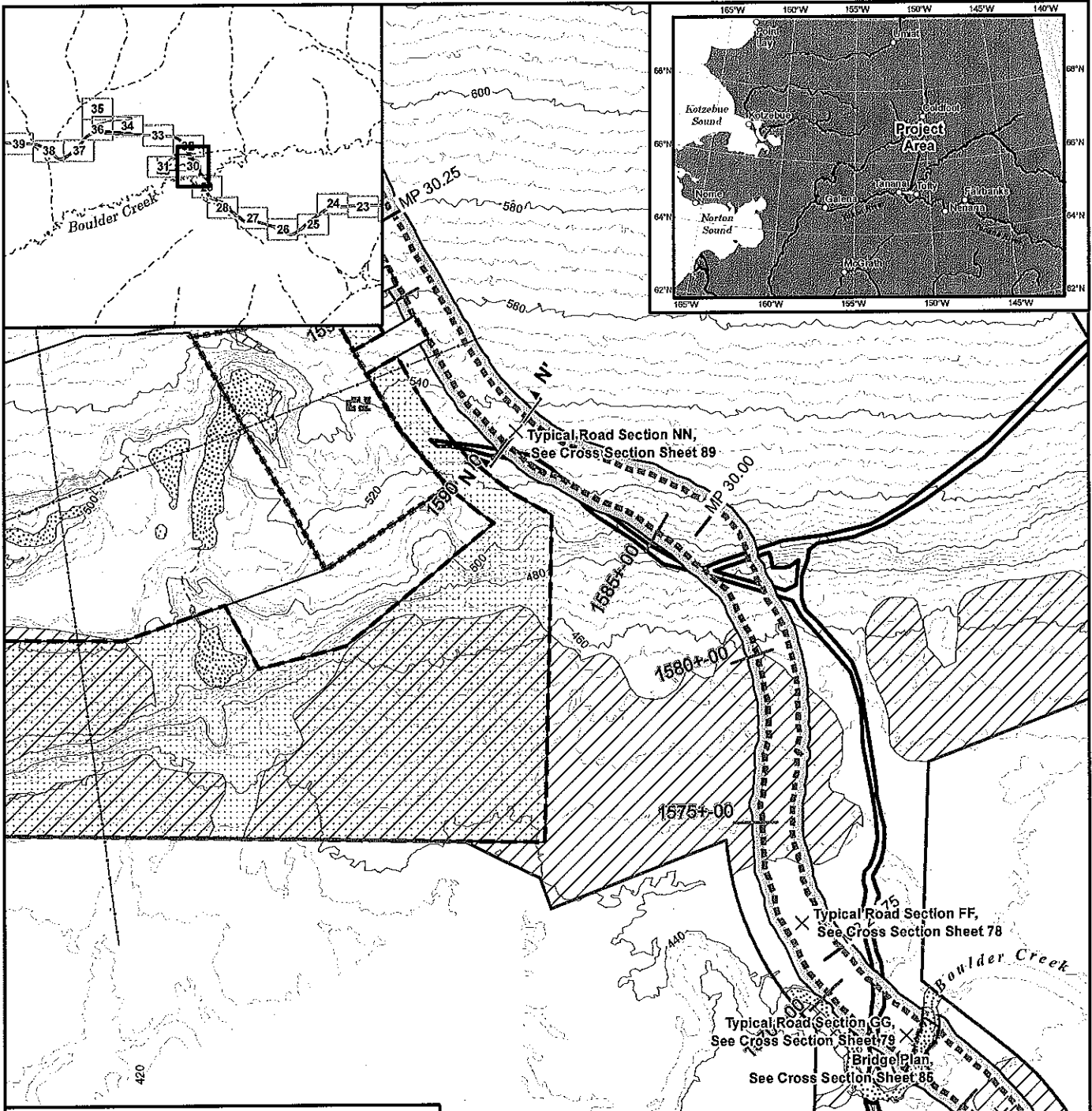
Plan View, MP: 28.57 to 29.22

Fish Creek Basin

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Legend

	Cut/Fill Boundary		Material Site
	Vegetation Clearing		Culvert: Type A & B Pipe (See Cross Section Figures 70, 71, 72 & 73)
	Vegetative Screen/Buffer		Culvert: Fish Pass Pipe (See Cross Section Figures 94, 95, 72 & 73)
	3PPI Study Area Boundary (12/05/2012)		MS Section Cut Lines
	Wetland		20ft Interval Contour
	Upland		4ft Interval Contour
	Wetland/Upland Mosaic		3PPI Arcs (12/5/2012) (All drainages are unnamed unless labeled on sheet)
	Navigable Waters		
	Other Waters		
	Previously Disturbed		

Scale 1:5,000
0 150 300 450 Feet

N

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Department of Transportation and Public Facilities

APPLICANT/AGENT: State of Alaska
2301 Peger Rd. Fairbanks, AK 99709

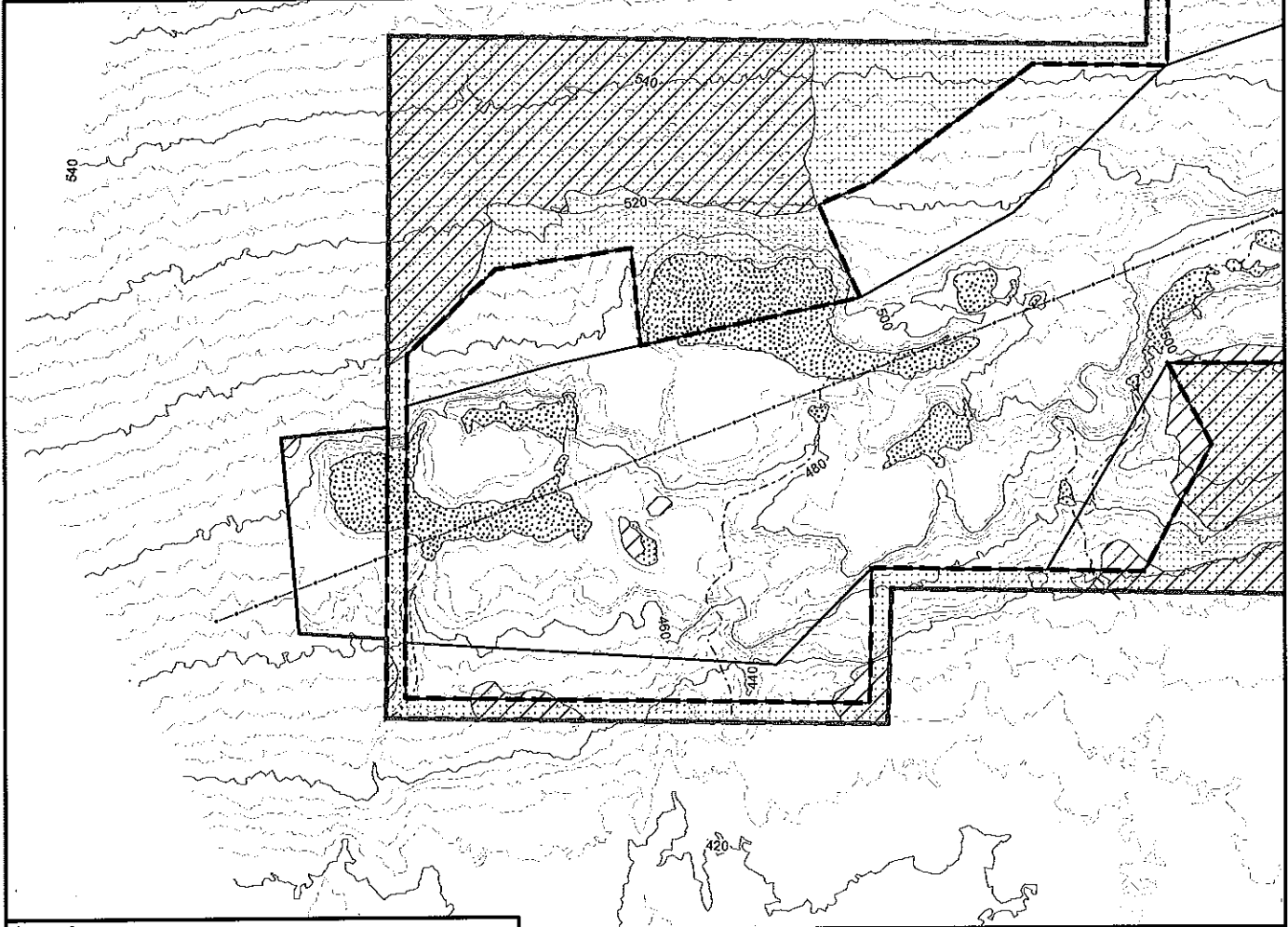
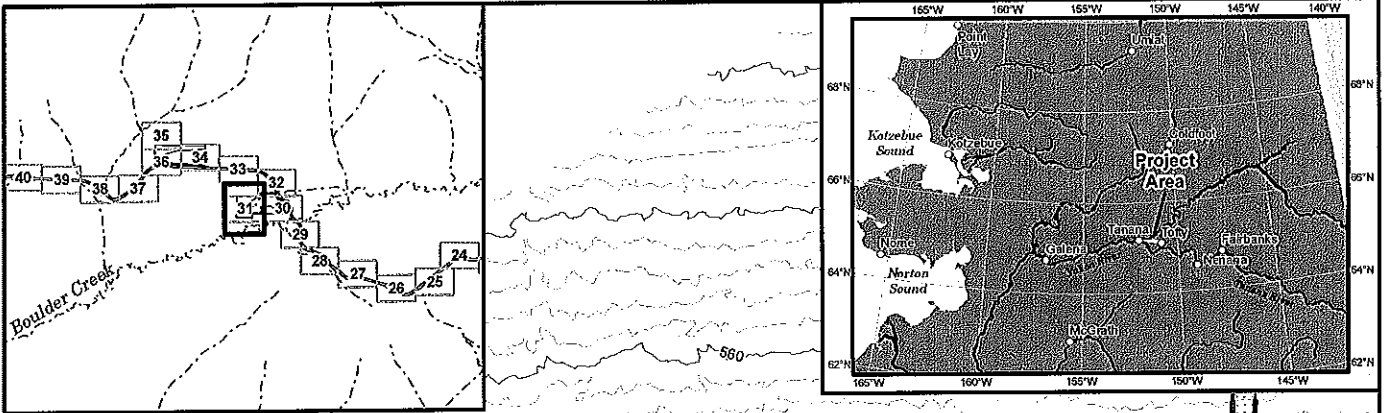
ROAD TO TANANA PROJECT

61759

Plan View, MP: 29.67 to 30.18

Fish Creek Basin

DATE: FEBRUARY 2013	SHEET: 30 of 110
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Legend

	Cut/Fill Boundary		Material Site
	Vegetation Clearing		Culvert: Type A & B Pipe (See Cross Section Figures 70, 71, 72 & 73)
	Vegetative Screen/Buffer		Culvert: Fish Pass Pipe (See Cross Section Figures 94, 95, 72 & 73)
	3PPI Study Area Boundary (12/05/2012)		MS Section Cut Lines
	Wetland		20ft Interval Contour
	Upland		4ft Interval Contour
	Wetland/Upland Mosaic		3PPI Arcs (12/5/2012) (All drainages are unnamed unless labeled on sheet)
	Navigable Waters		
	Other Waters		
	Previously Disturbed		

Scale 1:5,000
0 150 300 450 Feet

N

STATE OF ALASKA
Department of Transportation and Public Facilities

APPLICANT/AGENT: State of Alaska
2301 Peger Rd. Fairbanks, AK 99709

ROAD TO TANANA PROJECT

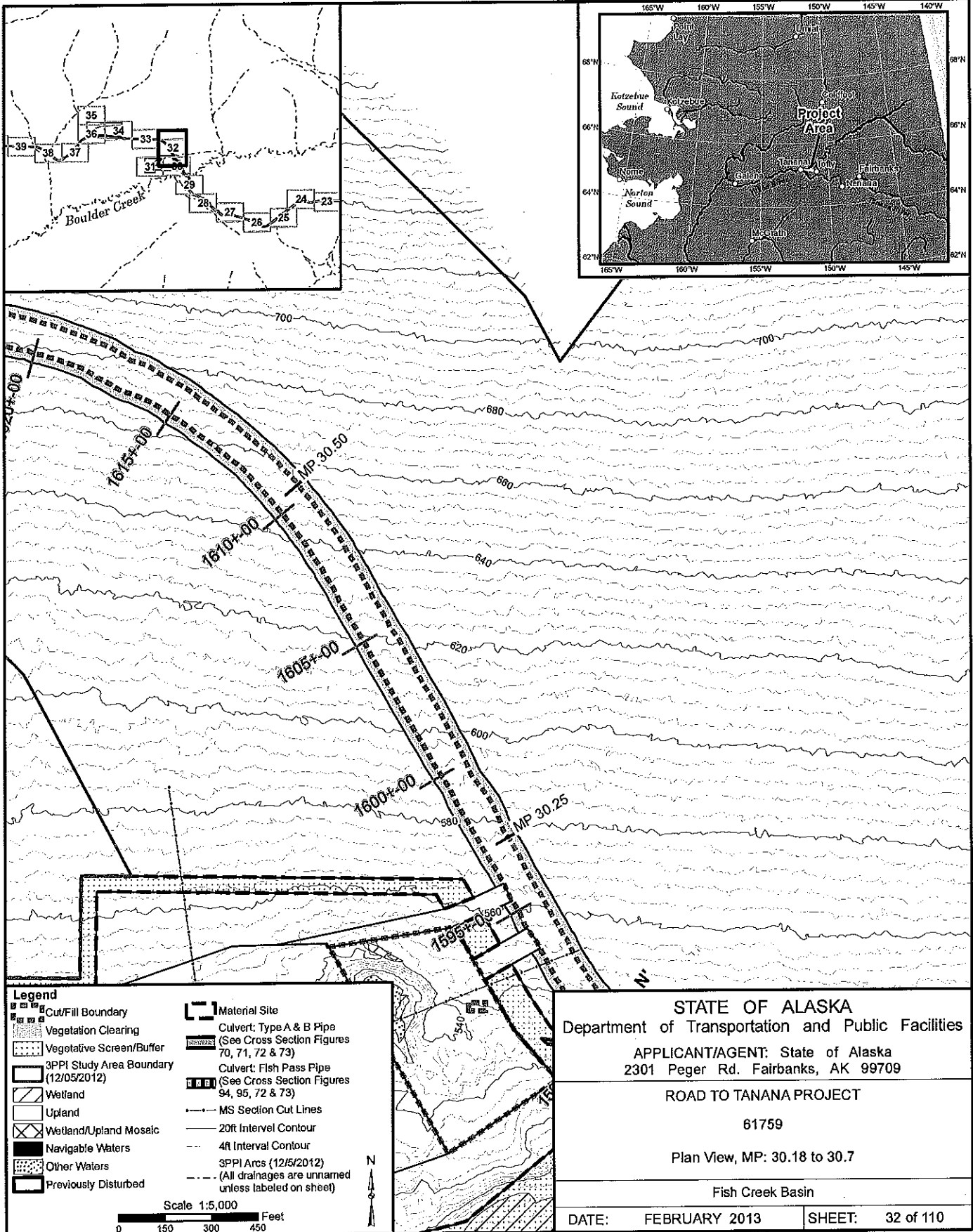
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Plan View, MP: n/a

Fish Creek Basin

DATE: FEBRUARY 2013	SHEET: 31 of 110
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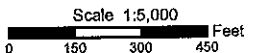
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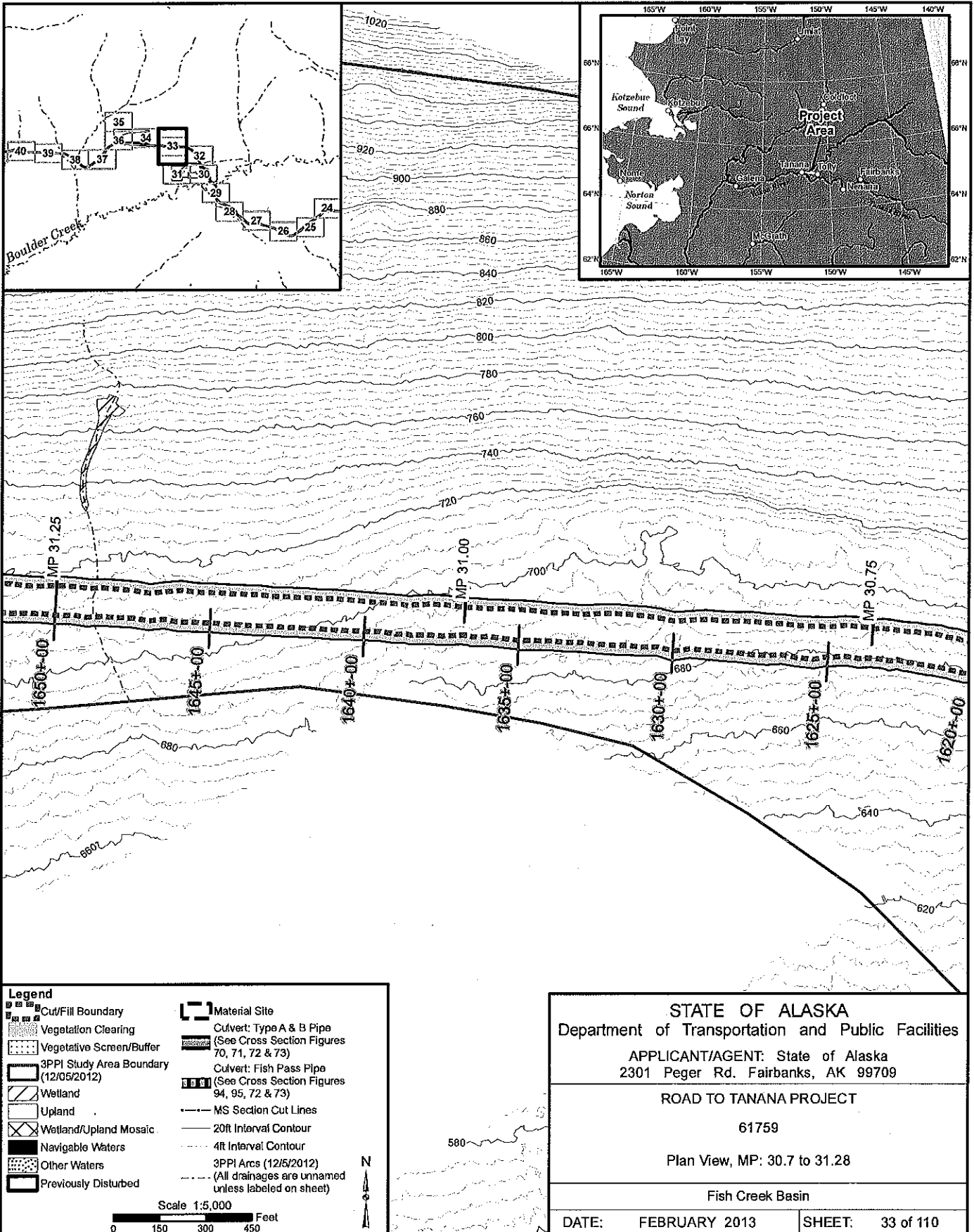
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	Cut/Fill Boundary		Material Site
	Vegetation Clearing		Culvert: Type A & B Pipe (See Cross Section Figures 70, 71, 72 & 73)
	Vegetative Screen/Buffer		Culvert: Fish Pass Pipe (See Cross Section Figures 94, 95, 72 & 73)
	3PPI Study Area Boundary (12/05/2012)		MS Section Cut Lines
	Wetland		20ft Interval Contour
	Wetland/Upland Mosaic		4ft Interval Contour
	Navigable Waters		3PPI Arcs (12/15/2012) (All drainages are unnamed unless labeled on sheet)
	Other Waters		
	Previously Disturbed		

STATE OF ALASKA Department of Transportation and Public Facilities	
APPLICANT/AGENT: State of Alaska 2301 Peger Rd. Fairbanks, AK 99709	
ROAD TO TANANA PROJECT 61759 Plan View, MP: 30.18 to 30.7	
Fish Creek Basin	
DATE: FEBRUARY 2013	SHEET: 32 of 110

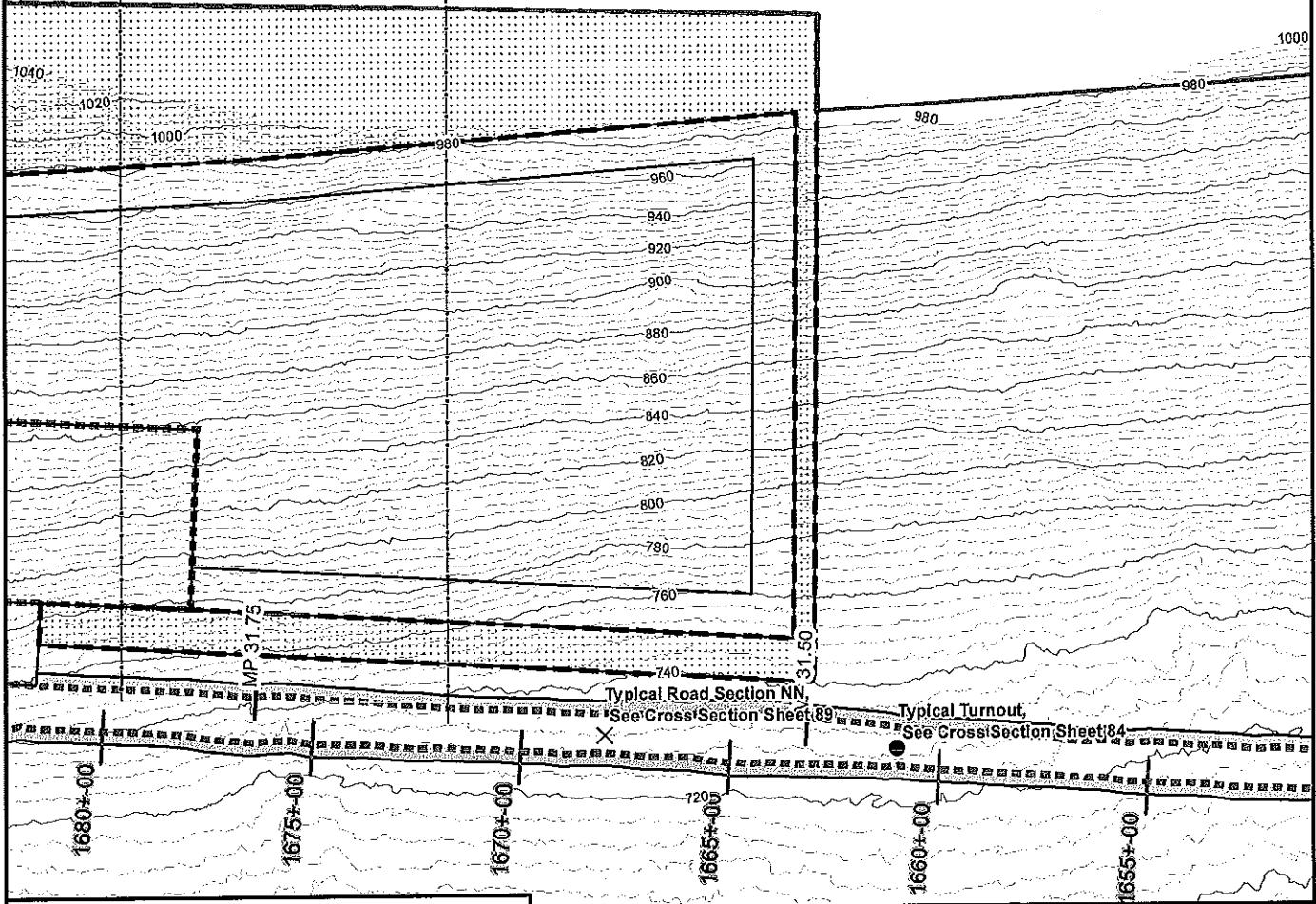
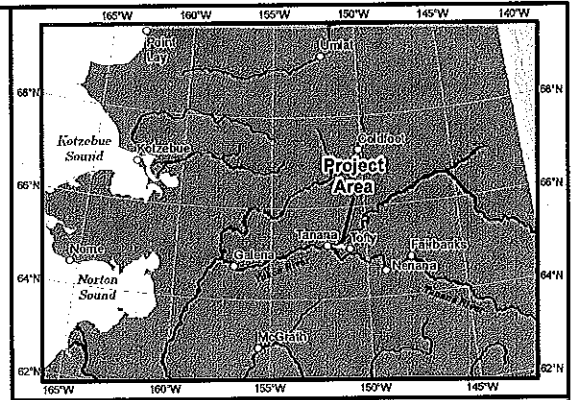
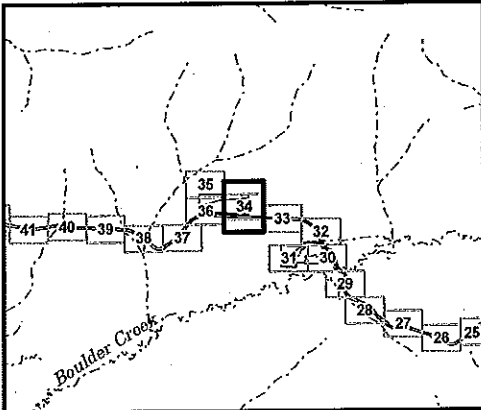


POA-2013-50, Yukon River

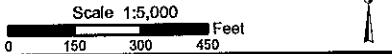


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POA-2013-50, Yukon River



Legend



STATE OF ALASKA
 Department of Transportation and Public Facilities

APPLICANT/AGENT: State of Alaska
 2301 Peger Rd. Fairbanks, AK 99709

ROAD TO TANANA PROJECT

61759

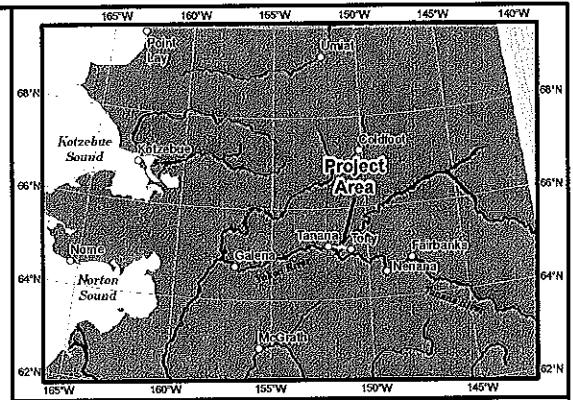
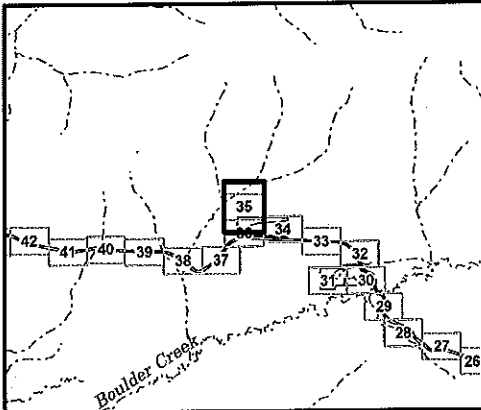
Plan View, MP: 31.28 to 31.86

Fish Creek Basin

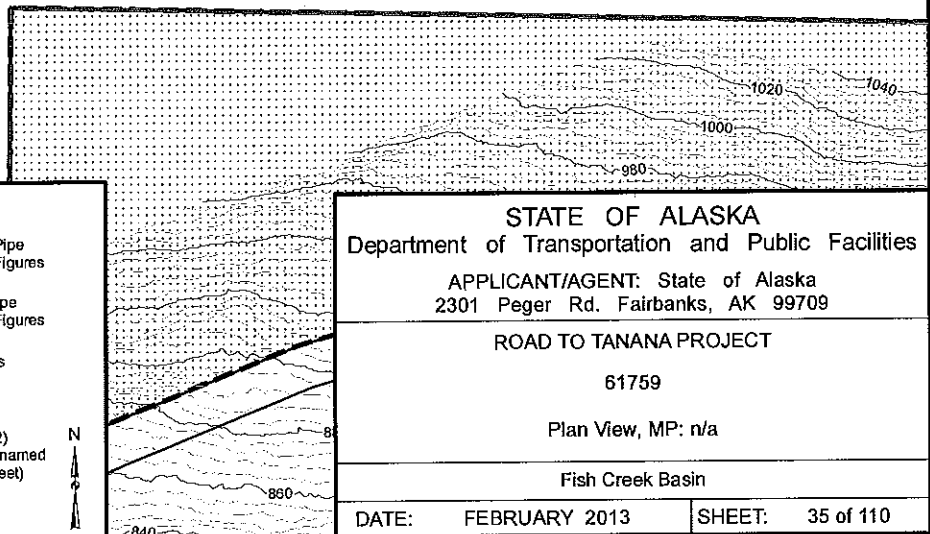
DATE: FEBRUARY 2013	SHEET: 34 of 110
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POA-2013-50, Yukon River



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Legend

	Culvert: Type A & B Pipe (See Cross Section Figures 70, 71, 72 & 73)
	Culvert: Fish Pass Pipe (See Cross Section Figures 94, 95, 72 & 73)
	MS Section Cut Lines
	20ft Interval Contour
	4ft Interval Contour
	3PPI Arcs (12/5/2012)
	--- (All drainages are unnamed unless labeled on sheet)

Scale 1:5,000 Feet
0 150 300 450

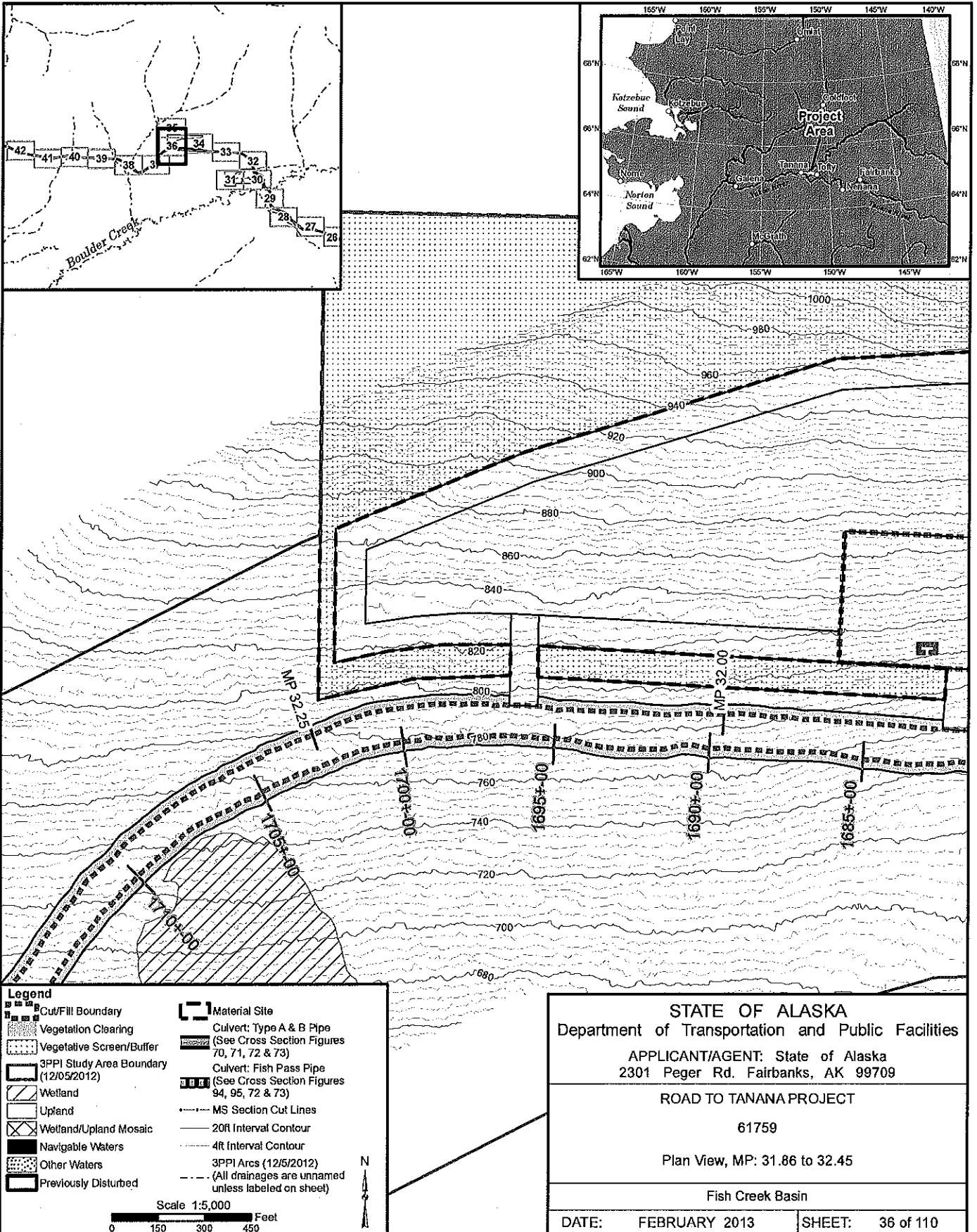
STATE OF ALASKA
 Department of Transportation and Public Facilities
 APPLICANT/AGENT: State of Alaska
 2301 Peger Rd. Fairbanks, AK 99709

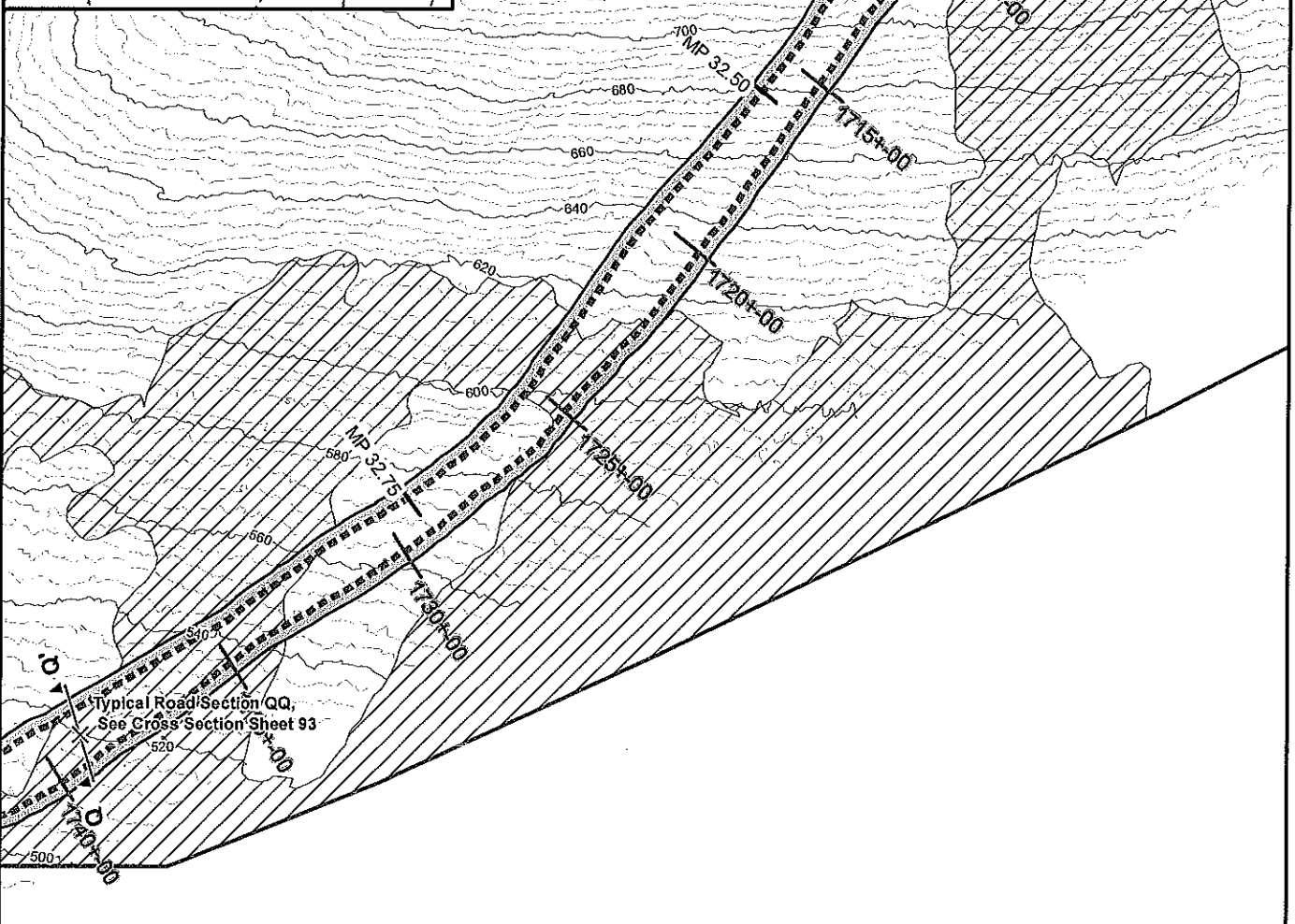
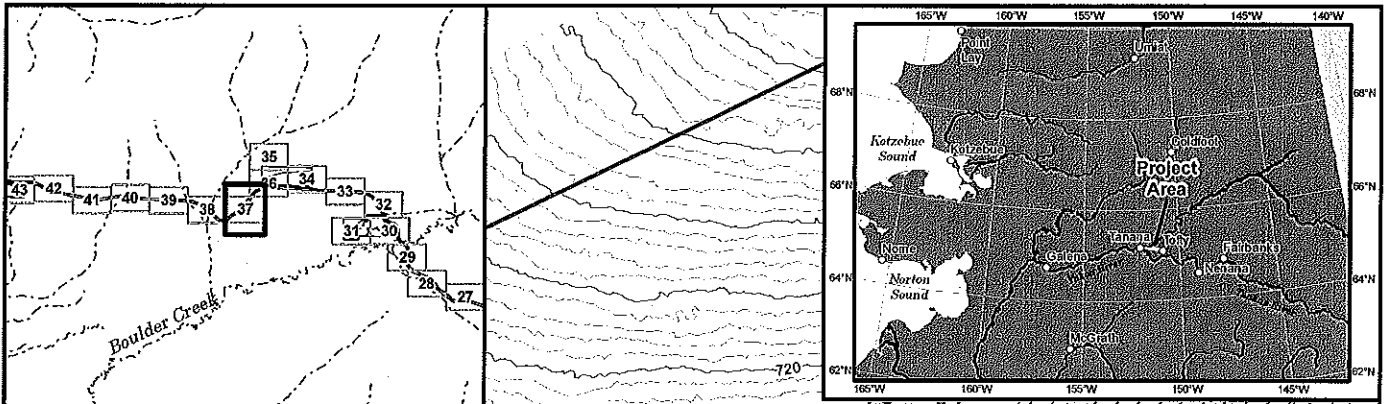
ROAD TO TANANA PROJECT
 61759
 Plan View, MP: n/a

Fish Creek Basin

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Legend

Cul/Fill Boundary	Material Site
Vegetation Clearing	Culvert: Type A & B Pipe (See Cross Section Figures 70, 71, 72 & 73)
Vegetative Screen/Buffer	Culvert: Fish Pass Pipe (See Cross Section Figures 94, 95, 72 & 73)
3PPI Study Area Boundary (12/05/2012)	MS Section Cut Lines
Wetland	20ft Interval Contour
Upland	4ft Interval Contour
Wetland/Upland Mosaic	3PPI Arcs (12/5/2012)
Navigable Waters	--- (All drainages are unnamed unless labeled on sheet)
Other Waters	
Previously Disturbed	

Scale 1:5,000
0 150 300 450 Feet

N

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APPLICANT/AGENT: State of Alaska
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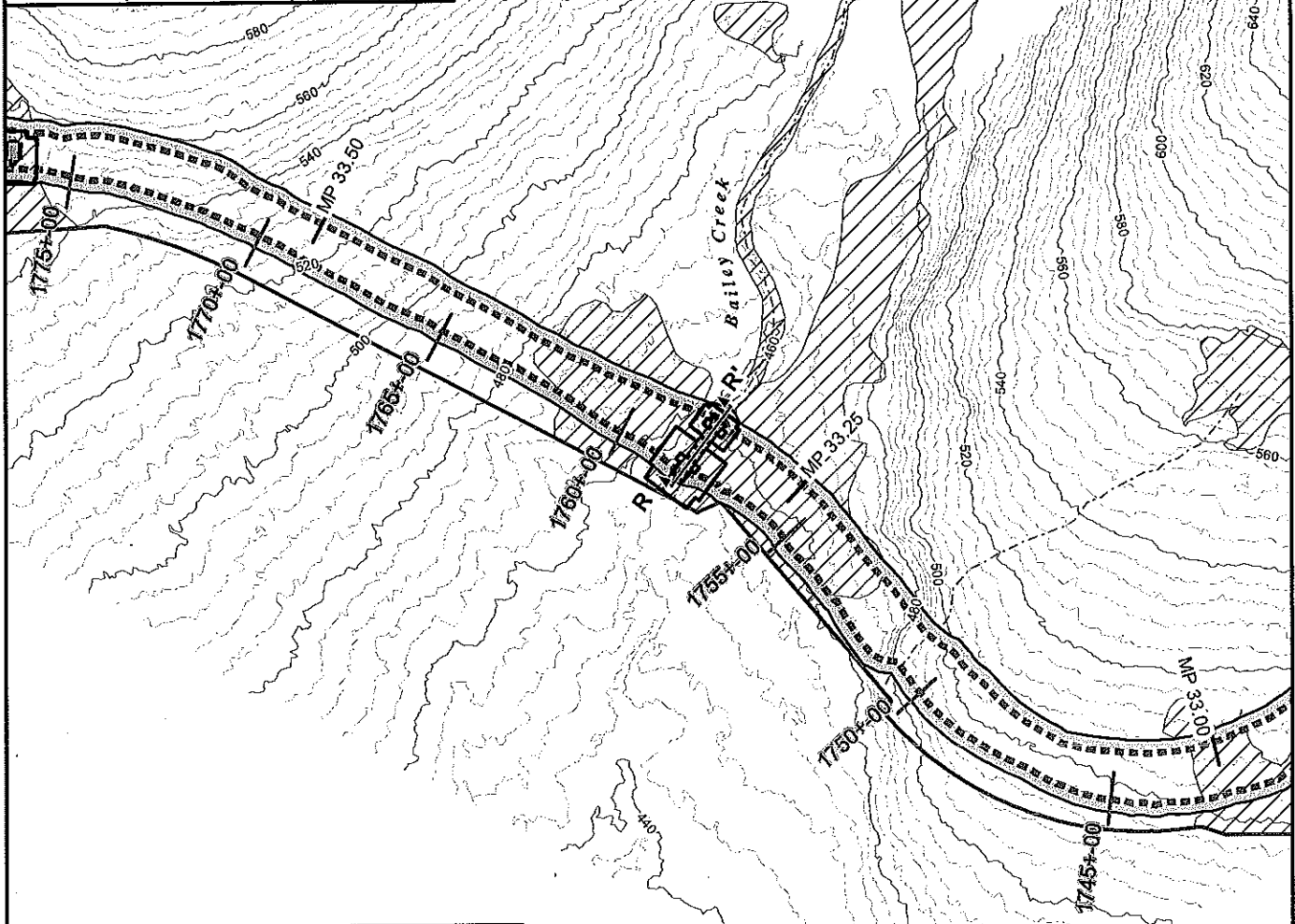
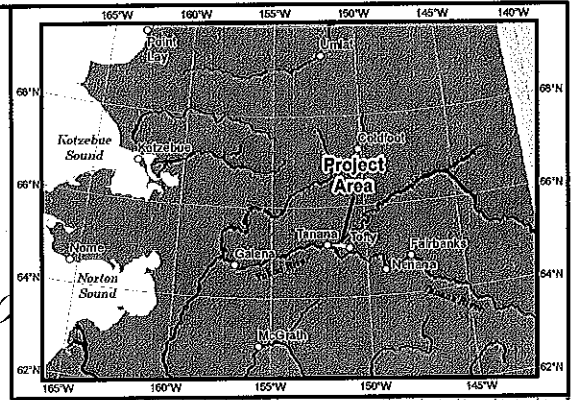
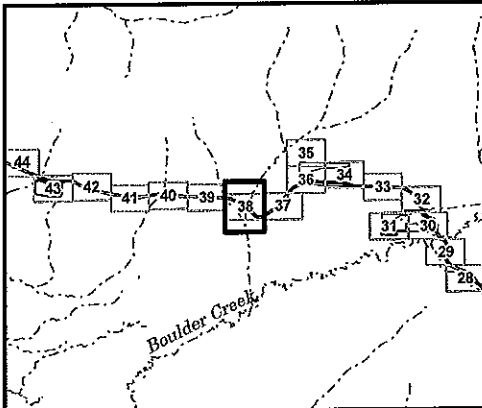
ROAD TO TANANA PROJECT

61759

Plan View, MP: 32.45 to 32.97

Fish Creek Basin

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Legend

	Cut/Fill Boundary		Material Site
	Vegetation Clearing		Culvert: Type A & B Pipe (See Cross Section Figures 70, 71, 72 & 73)
	Vegetative Screen/Buffer		Culvert: Fish Pass Pipe (See Cross Section Figures 94, 95, 72 & 73)
	3PPI Study Area Boundary (12/05/2012)		MS Section Cut Lines
	Wetland		20ft Interval Contour
	Upland		4R Interval Contour
	Wetland/Upland Mosaic		3PPI Arcs (12/5/2012) (All drainages are unnamed unless labeled on sheet)
	Navigable Waters		
	Other Waters		
	Previously Disturbed		

Scale 1:5,000
0 150 300 450 Feet

N

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ROAD TO TANANA PROJECT

61759

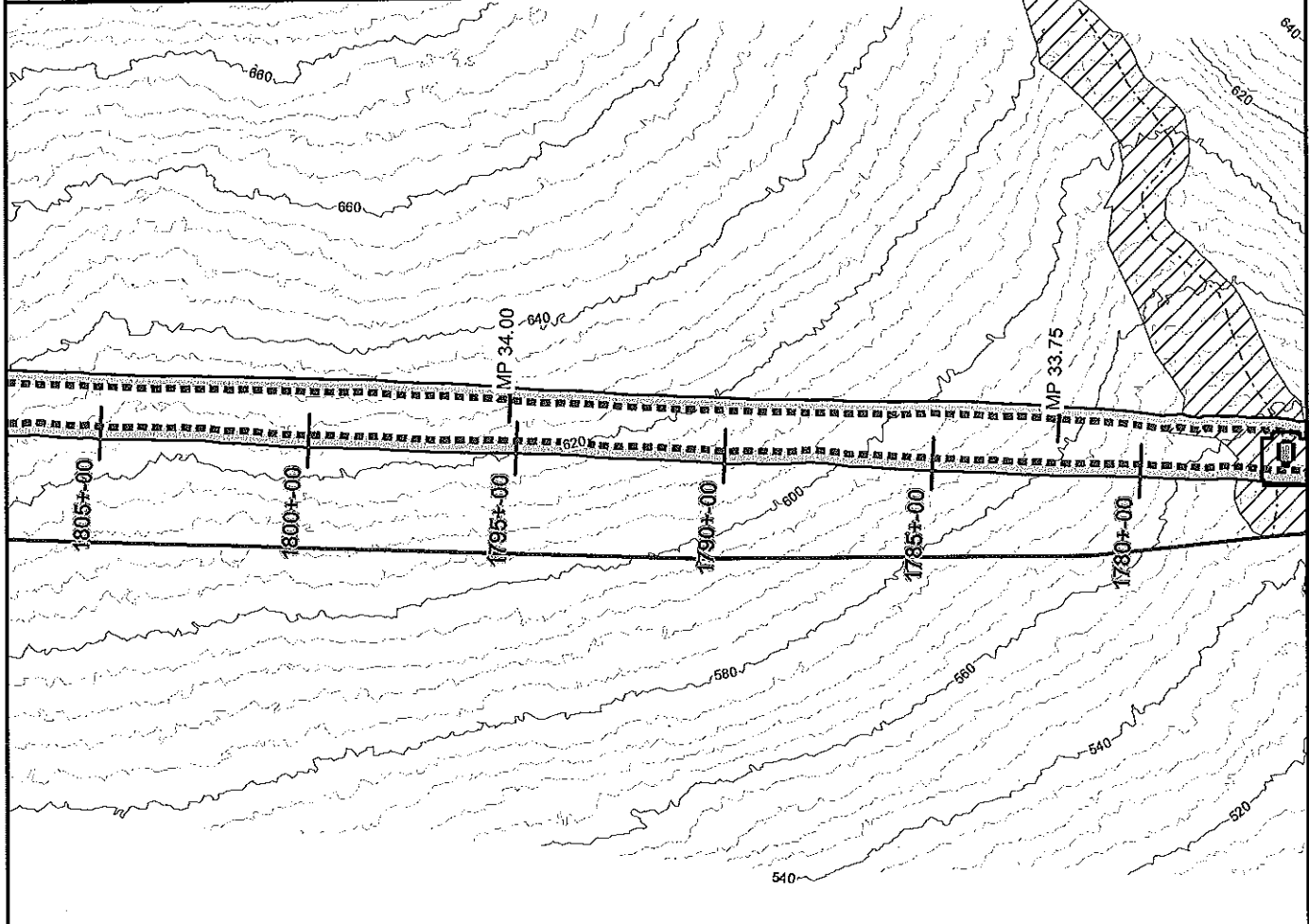
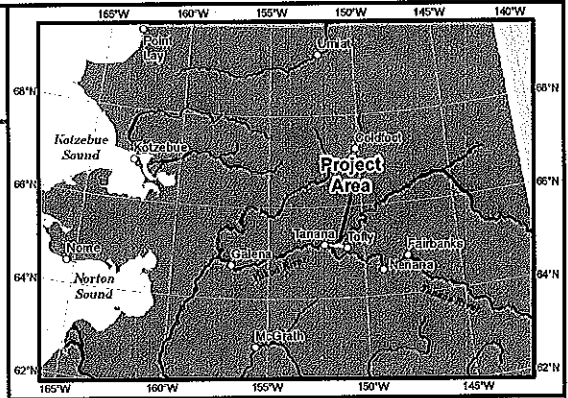
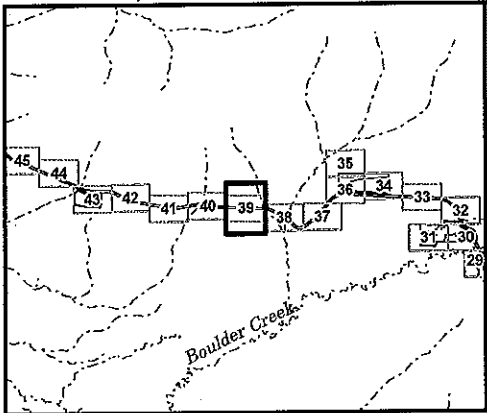
Plan View, MP: 32.97 to 33.64

Fish Creek Basin

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POA-2013-50, Yukon River



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Legend

	Culvert: Type A & B Pipe (See Cross Section Figures 70, 71, 72 & 73)
	Culvert: Fish Pass Pipe (See Cross Section Figures 94, 95, 72 & 73)
	MS Section Cut Lines
	20ft Interval Contour
	4ft Interval Contour
	3PPI Arcs (12/5/2012)
	(All drainages are unnamed unless labeled on sheet)

Scale 1:5,000
0 150 300 450 Feet

N

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ROAD TO TANANA PROJECT

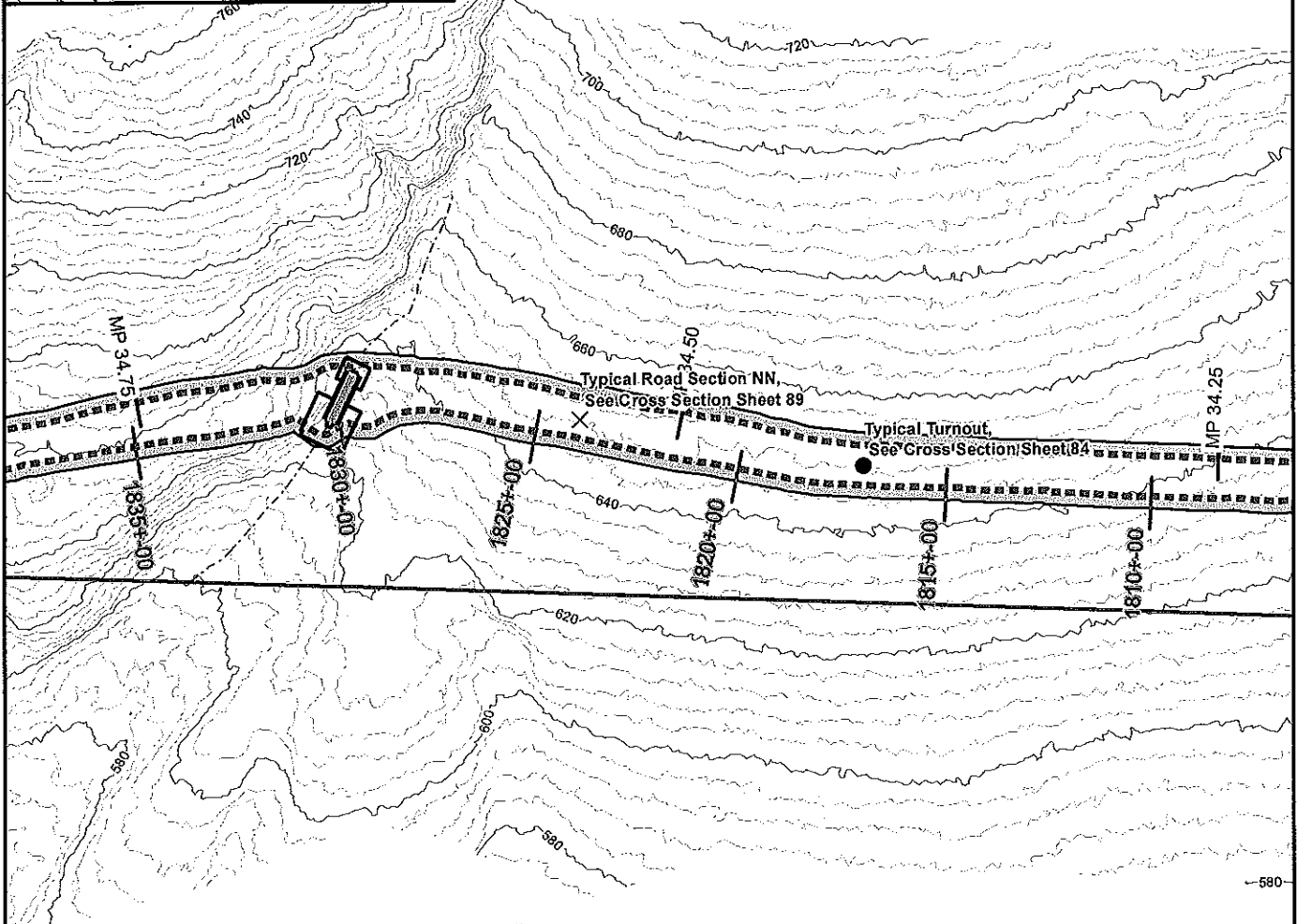
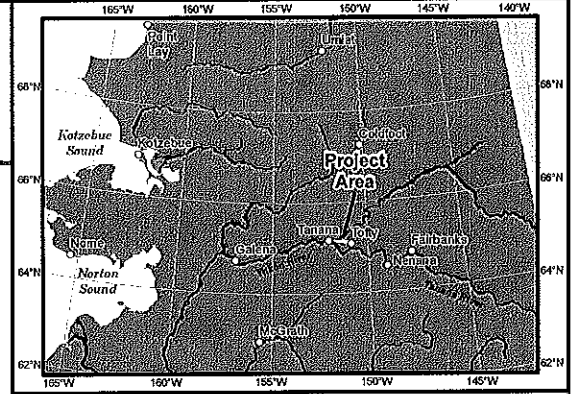
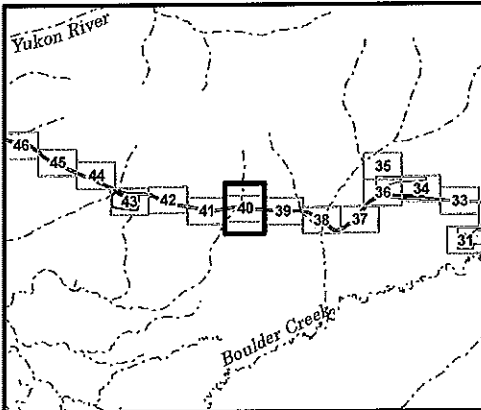
61759

Plan View, MP: 33.64 to 34.22

Tanana River Basin

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POA-2013-50, Yukon River



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Legend

	Cut/Fill Boundary		Material Site
	Vegetation Clearing		Culvert: Type A & B Pipe (See Cross Section Figures 70, 71, 72 & 73)
	Vegetative Screen/Buffer		Culvert: Fish Pass Pipe (See Cross Section Figures 94, 95, 72 & 73)
	3PPI Study Area Boundary (12/05/2012)		MS Section Cut Lines
	Wetland		20ft Interval Contour
	Wetland/Upland Mosaic		4ft Interval Contour
	Navigable Waters		3PPI Arcs (12/5/2012) (All drainages are unnamed unless labeled on sheet)
	Other Waters		
	Previously Disturbed		

Scale 1:5,000
0 150 300 450 Feet

N

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2301 Peger Rd. Fairbanks, AK 99709

ROAD TO TANANA PROJECT

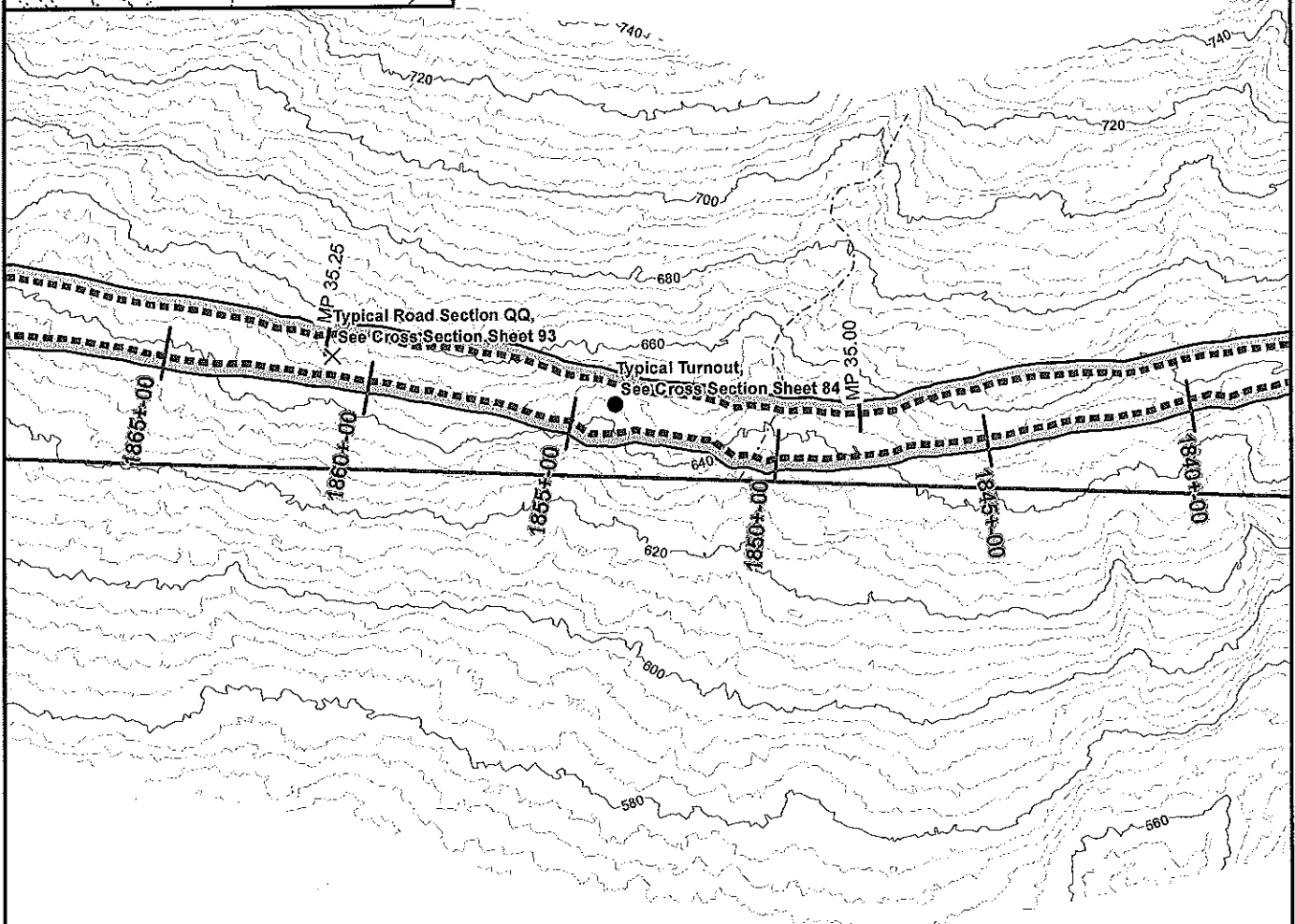
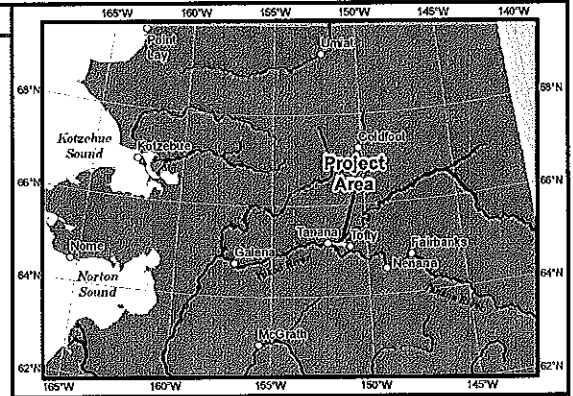
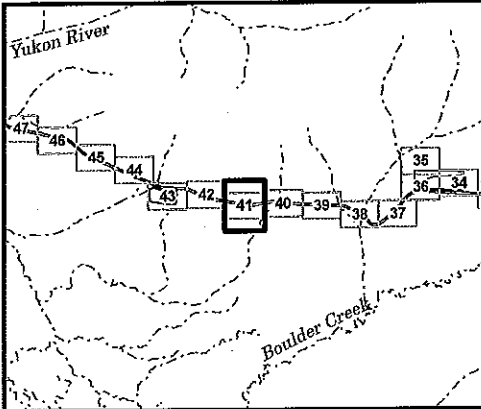
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Plan View, MP: 34.22 to 34.81

Tanana River Basin

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POA-2013-50, Yukon River



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Legend

	Cut/Fill Boundary		Material Site
	Vegetation Clearing		Culvert: Type A & B Pipe (See Cross Section Figures 70, 71, 72 & 73)
	Vegetative Screen/Buffer		Culvert: Fish Pass Pipe (See Cross Section Figures 94, 95, 72 & 73)
	3PPI Study Area Boundary (12/05/2012)		MS Section Cut Lines
	Wetland		20ft Interval Contour
	Upland		4ft Interval Contour
	Wetland/Upland Mosaic		3PPI Arcs (12/5/2012) (All drainages are unnamed unless labeled on sheet)
	Navigable Waters		
	Other Waters		
	Previously Disturbed		

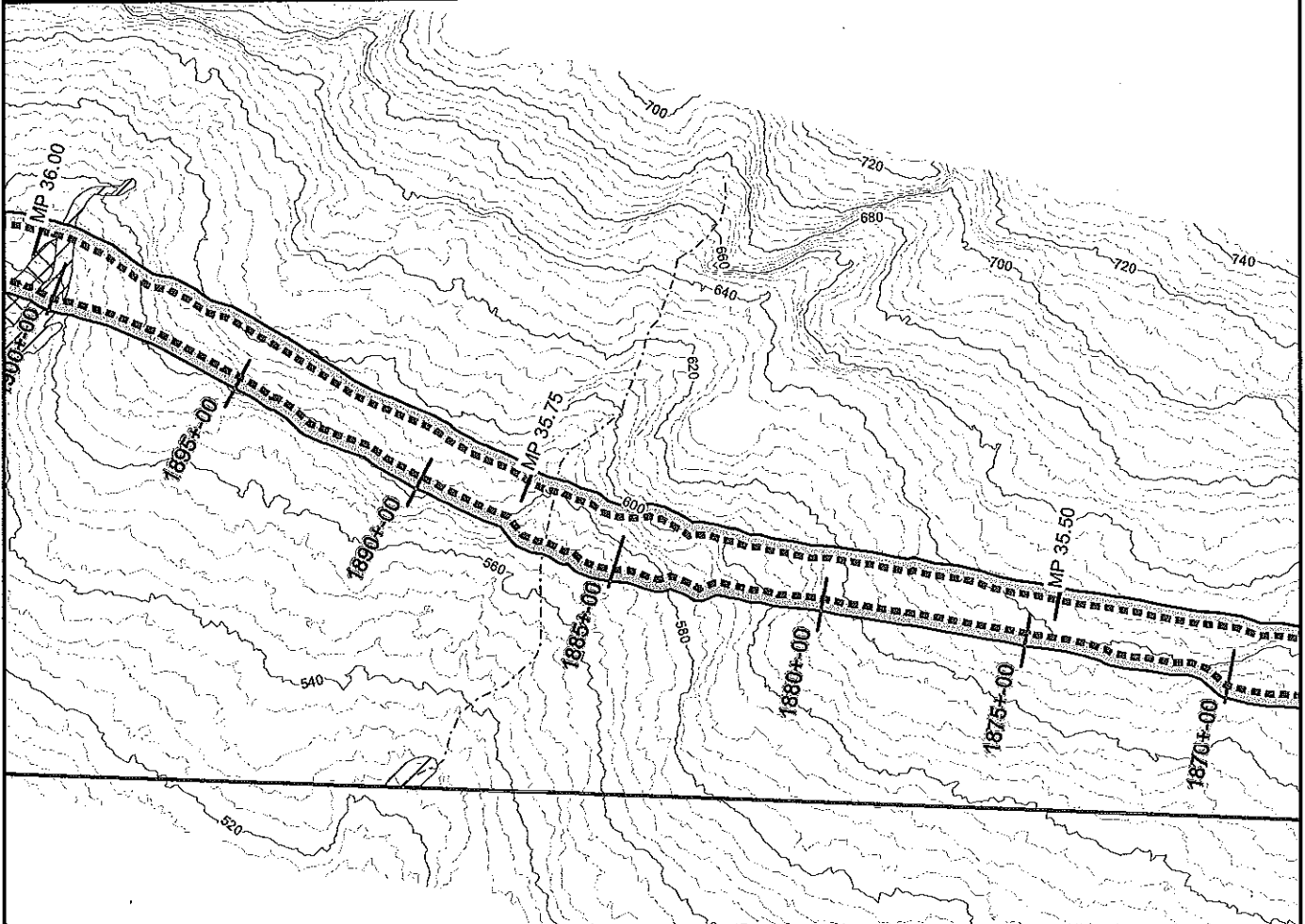
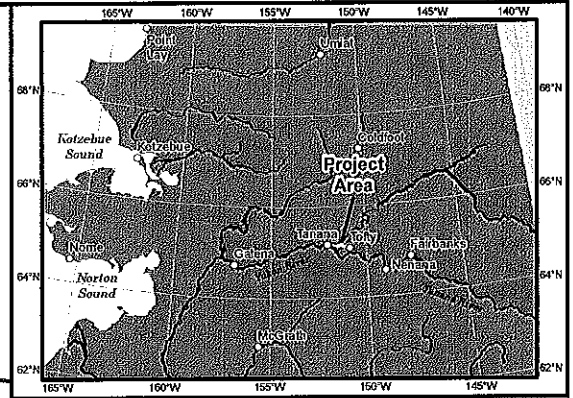
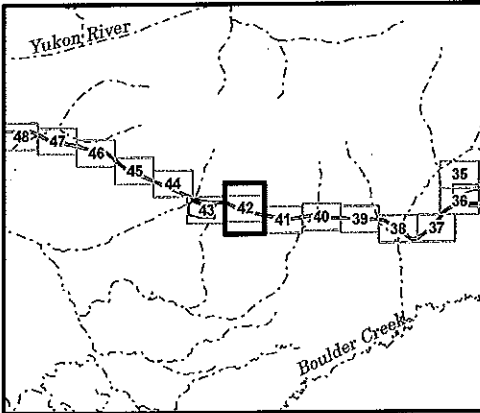
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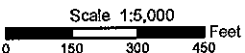
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STATE OF ALASKA Department of Transportation and Public Facilities APPLICANT/AGENT: State of Alaska 2301 Peger Rd. Fairbanks, AK 99709	
ROAD TO TANANA PROJECT 61759 Plan View, MP: 34.81 to 35.39	
Tanana River Basin	
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POA-2013-50, Yukon River



- Legend**
- Cut/Fill Boundary
 - Vegetation Clearing
 - Vegetative Screen/Buffer
 - 3PPI Study Area Boundary (12/05/2012)
 - Wetland
 - Wetland/Upland Mosaic
 - Navigable Waters
 - Other Waters
 - Previously Disturbed
 - Material Site
 - Culvert: Type A & B Pipe (See Cross Section Figures 70, 71, 72 & 73)
 - Culvert: Fish Pass Pipe (See Cross Section Figures 94, 95, 72 & 73)
 - MS Section Cut Lines
 - 20ft Interval Contour
 - 4ft Interval Contour
 - 3PPI Arcs (12/5/2012) (All drainages are unnamed unless labeled on sheet)



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ROAD TO TANANA PROJECT

61759

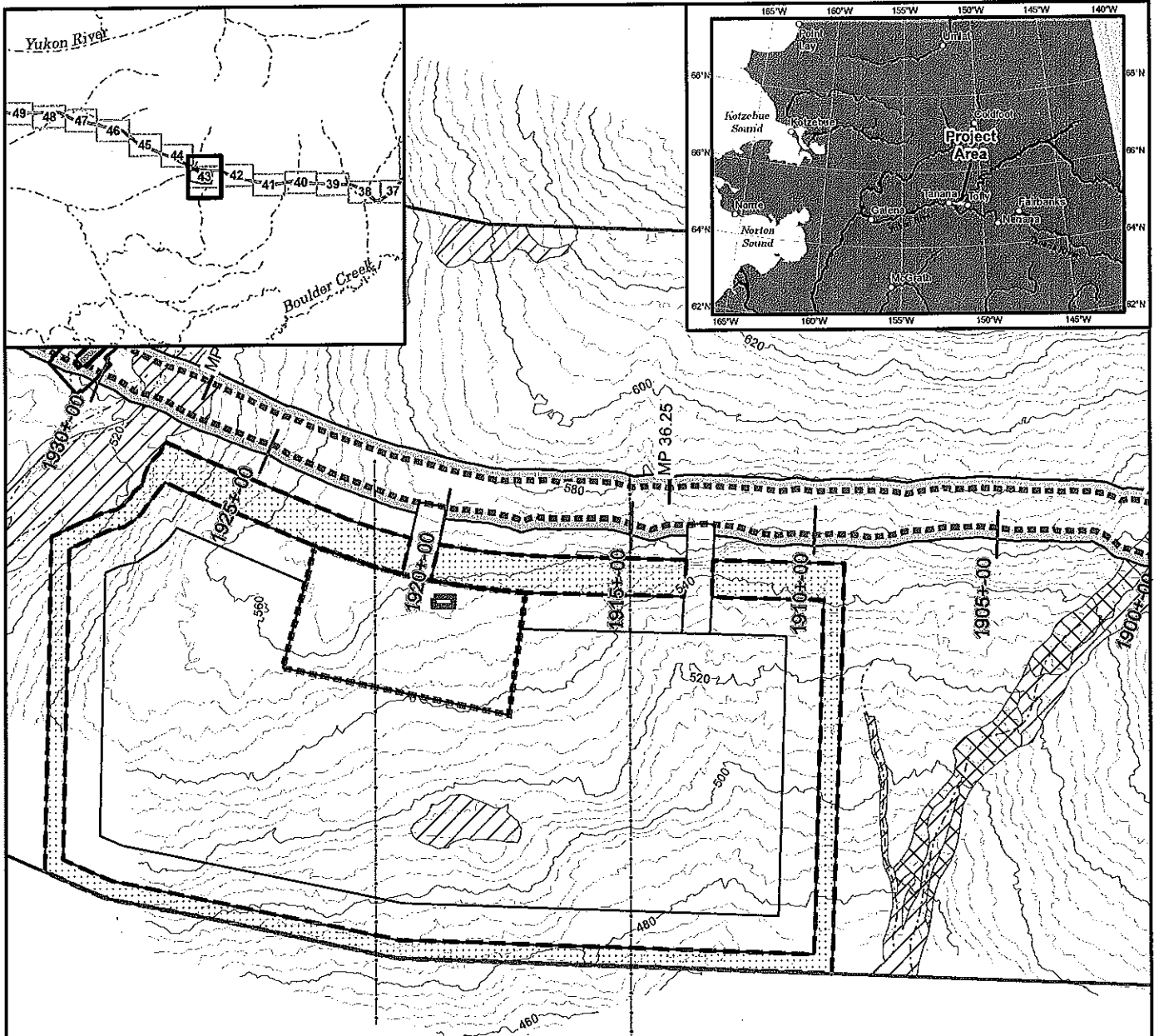
Plan View, MP: 35.39 to 36.01

Tanana River Basin

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POA-2013-50, Yukon River



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Legend

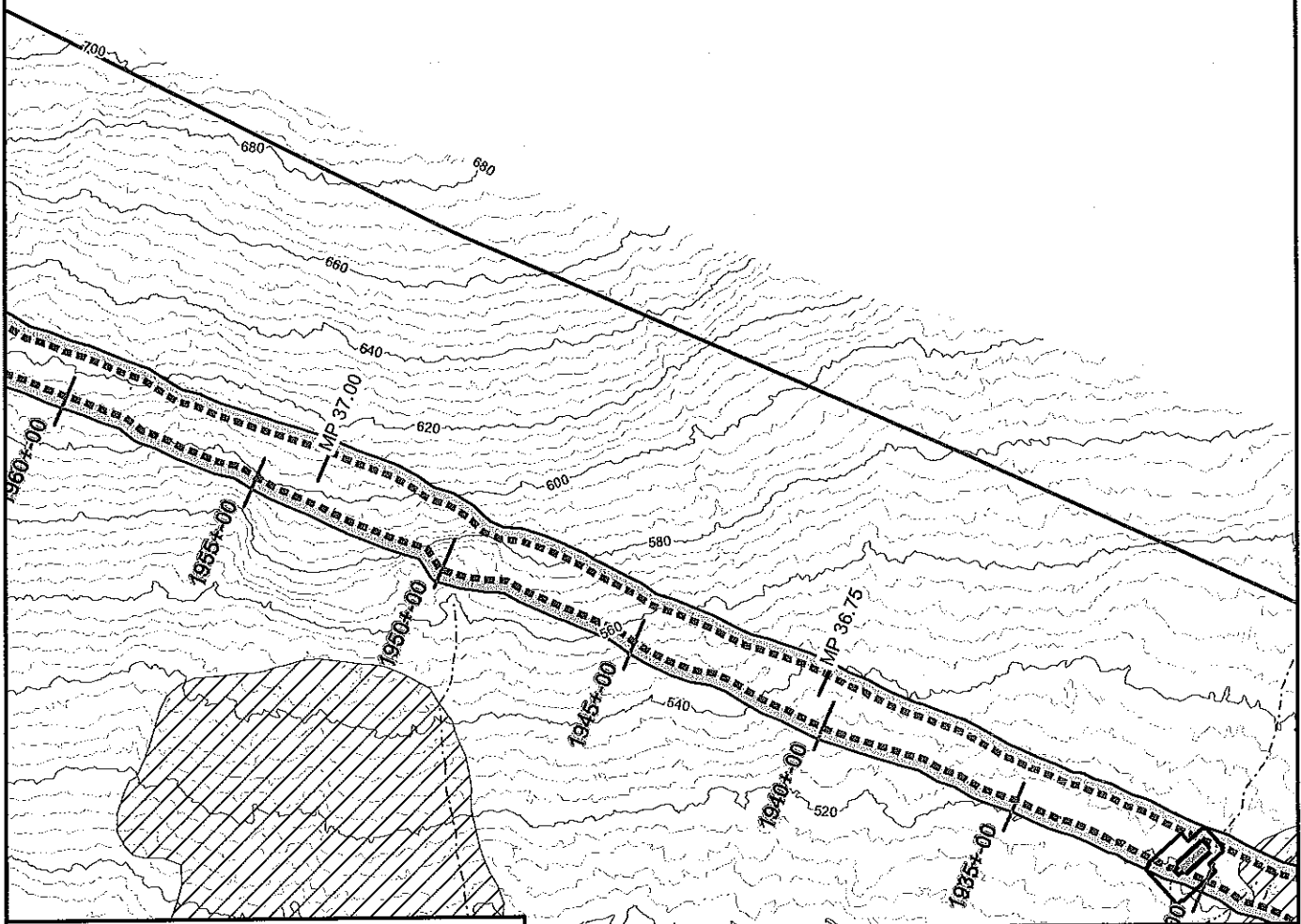
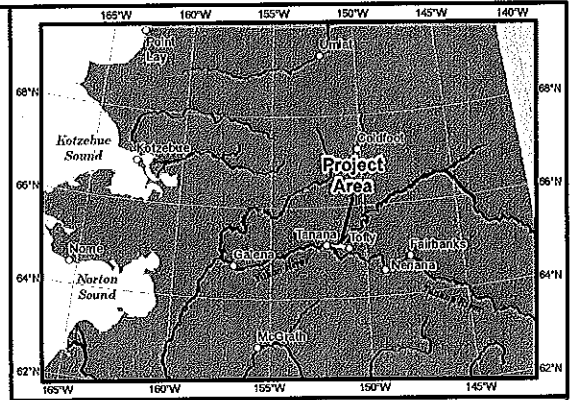
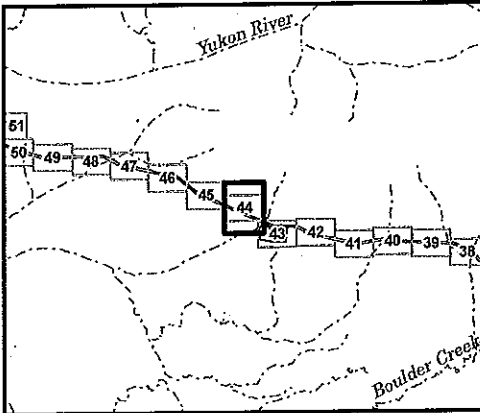
	Cut/Fill Boundary		Material Site
	Vegetation Clearing		Culvert: Type A & B Pipe (See Cross Section Figures 70, 71, 72 & 73)
	Vegetative Screen/Buffer		Culvert: Fish Pass Pipe (See Cross Section Figures 94, 95, 72 & 73)
	3PPI Study Area Boundary (12/05/2012)		MS Section Cut Lines
	Wetland		20ft Interval Contour
	Upland		4R Interval Contour
	Wetland/Upland Mosaic		3PPI Arcs (12/5/2012) (All drainages are unnamed unless labeled on sheet)
	Navigable Waters		
	Other Waters		
	Previously Disturbed		

Scale 1:5,000
0 150 300 450 Feet

N

<p>STATE OF ALASKA Department of Transportation and Public Facilities</p> <p>APPLICANT/AGENT: State of Alaska 2301 Peger Rd. Fairbanks, AK 99709</p>	
<p>ROAD TO TANANA PROJECT</p> <p>61759</p> <p>Plan View, MP: 36.01 to 36.56</p>	
<p>Tanana River Basin</p>	
DATE:	FEBRUARY 2013
SHEET:	43 of 110

POA-2013-50, Yukon River



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Legend

	Cut/Fill Boundary		Material Site
	Vegetation Clearing		Culvert: Type A & B Pipe (See Cross Section Figures 70, 71, 72 & 73)
	Vegetative Screen/Buffer		Culvert: Fish Pass Pipe (See Cross Section Figures 94, 95, 72 & 73)
	3PPI Study Area Boundary (12/05/2012)		MS Section Cut Lines
	Wetland		20ft Interval Contour
	Upland		4ft Interval Contour
	Wetland/Upland Mosaic		3PPI Arcs (12/5/2012) (All drainages are unnamed unless labeled on sheet)
	Navigable Waters		
	Other Waters		
	Previously Disturbed		

Scale 1:5,000
0 150 300 450 Feet

STATE OF ALASKA
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APPLICANT/AGENT: State of Alaska
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ROAD TO TANANA PROJECT

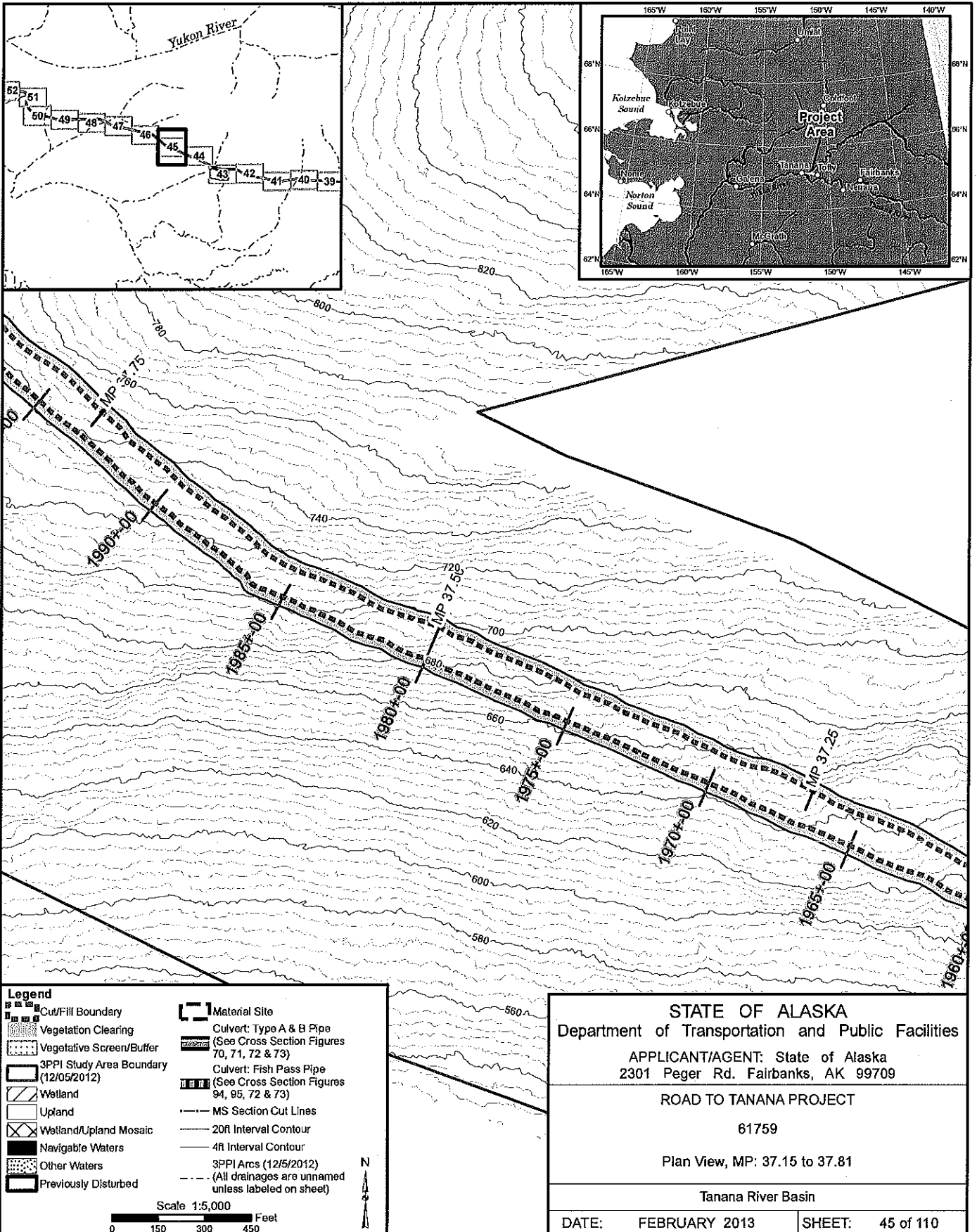
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Plan View, MP: 36.56 to 37.15

Tanana River Basin

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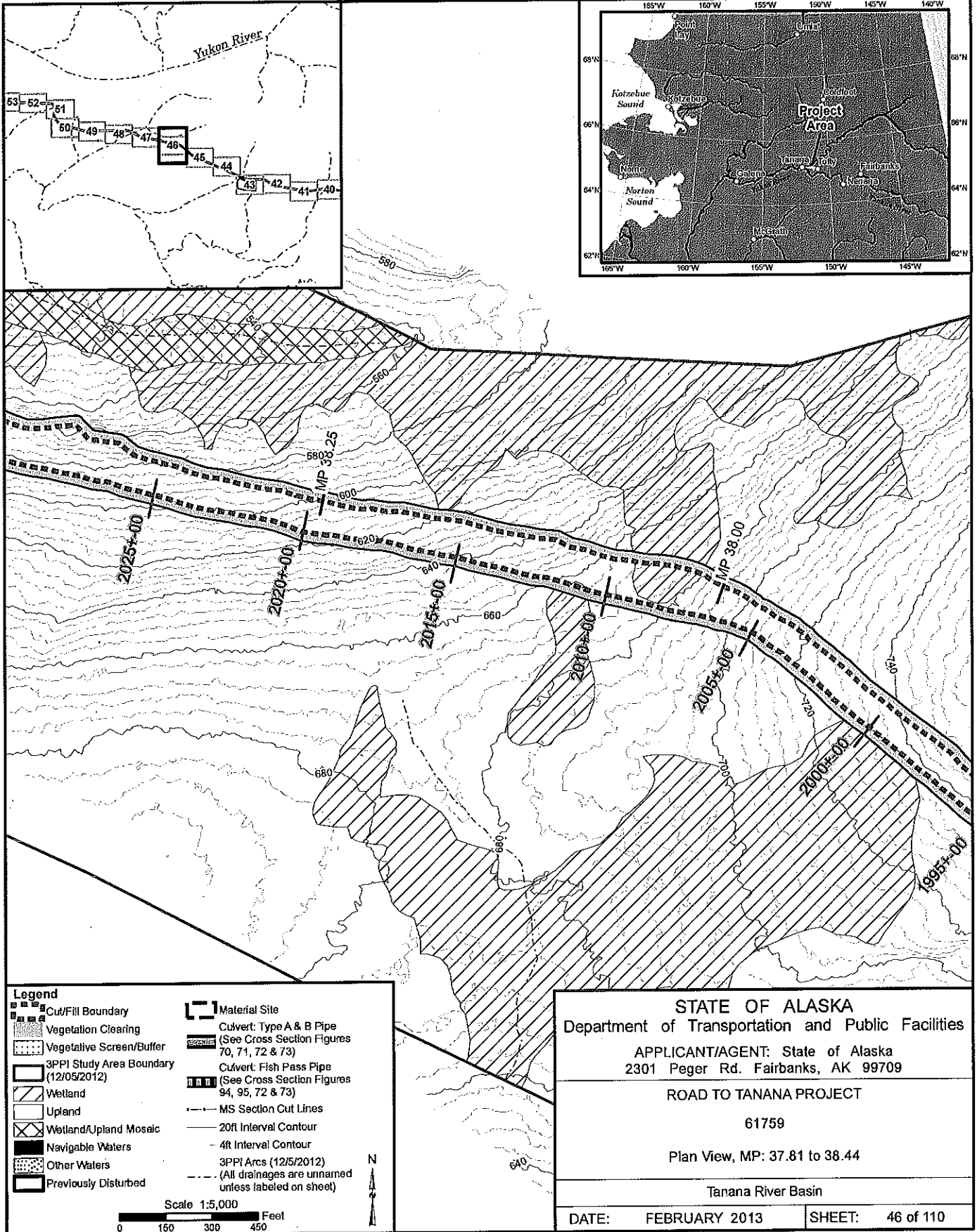
POA-2013-50, Yukon River



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STATE OF ALASKA Department of Transportation and Public Facilities APPLICANT/AGENT: State of Alaska 2301 Peger Rd. Fairbanks, AK 99709	
ROAD TO TANANA PROJECT 61759 Plan View, MP: 37.15 to 37.81	
Tanana River Basin	
DATE: FEBRUARY 2013	SHEET: 45 of 110

POA-2013-50, Yukon River



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	Cut/Fill Boundary		Material Site
	Vegetation Clearing		Culvert: Type A & B Pipe (See Cross Section Figures 70, 71, 72 & 73)
	Vegetative Screen/Buffer		Culvert: Fish Pass Pipe (See Cross Section Figures 94, 95, 72 & 73)
	3PPI Study Area Boundary (12/05/2012)		MS Section Cut Lines
	Wetland		20ft Interval Contour
	Upland		4ft Interval Contour
	Wetland/Upland Mosaic		3PPI Arcs (12/5/2012)
	Navigable Waters		(All drainages are unnamed unless labeled on sheet)
	Other Waters		
	Previously Disturbed		

Scale 1:5,000
0 150 300 450 Feet

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ROAD TO TANANA PROJECT

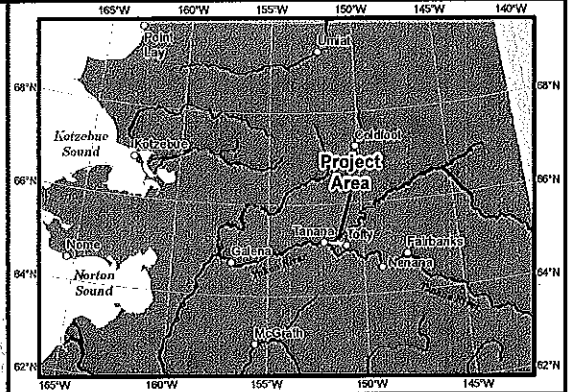
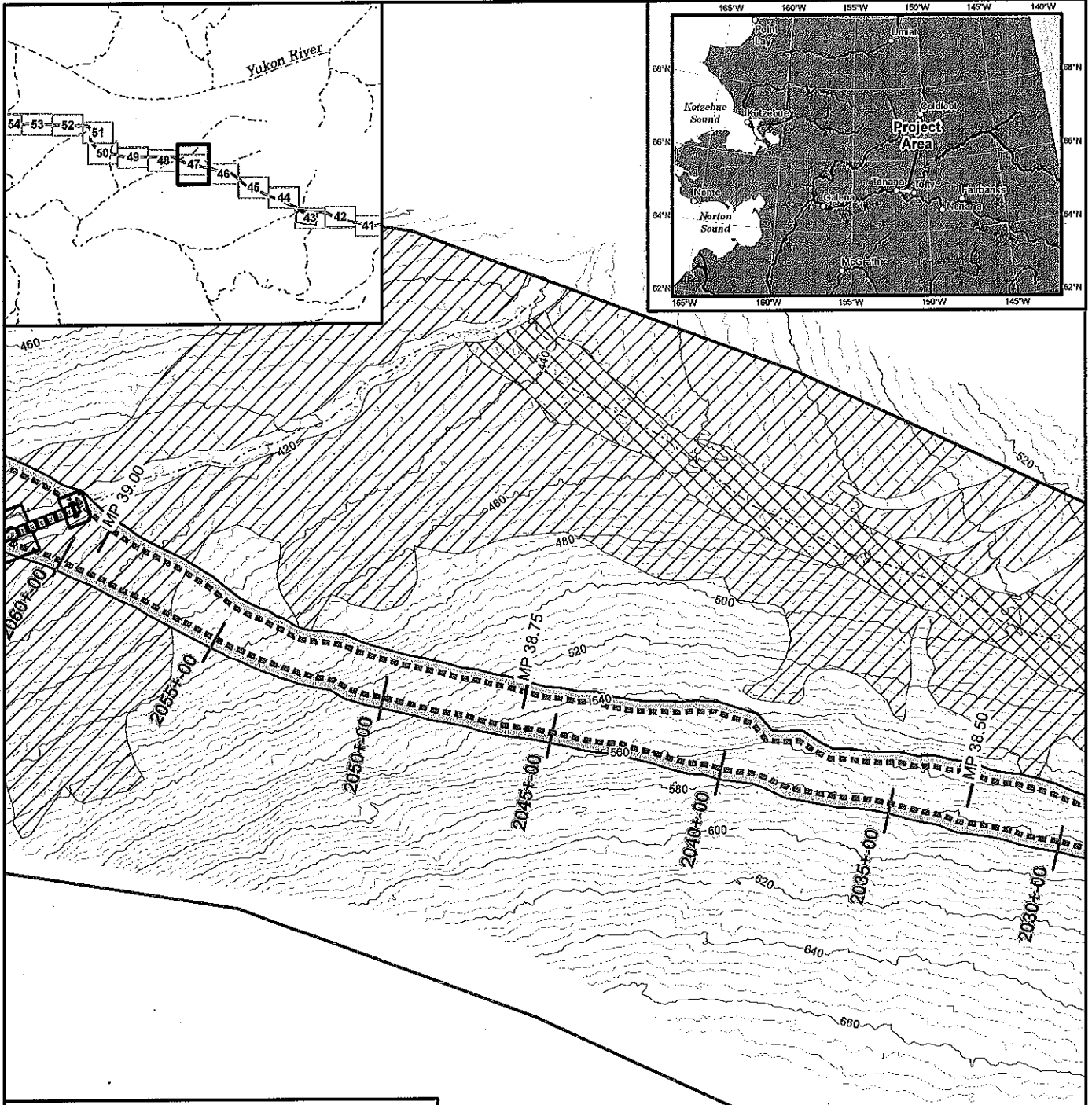
61759

Plan View, MP: 37.81 to 38.44

Tanana River Basin

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POA-2013-50, Yukon River



Legend

	Cut/Fill Boundary		Material Site
	Vegetation Clearing		Culvert: Type A & B Pipe (See Cross Section Figures 70, 71, 72 & 73)
	Vegetative Screen/Buffer		Culvert: Fish Pass Pipe (See Cross Section Figures 94, 95, 72 & 73)
	3PPI Study Area Boundary (12/05/2012)		MS Section Cut Lines
	Wetland		20ft Interval Contour
	Upland		4ft Interval Contour
	Wetland/Upland Mosaic		3PPI Arcs (12/15/2012)
	Navigable Waters		(All drainages are unnamed unless labeled on sheet)
	Other Waters		
	Previously Disturbed		

Scale 1:5,000
 0 150 300 450 Feet

N

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ROAD TO TANANA PROJECT

61759

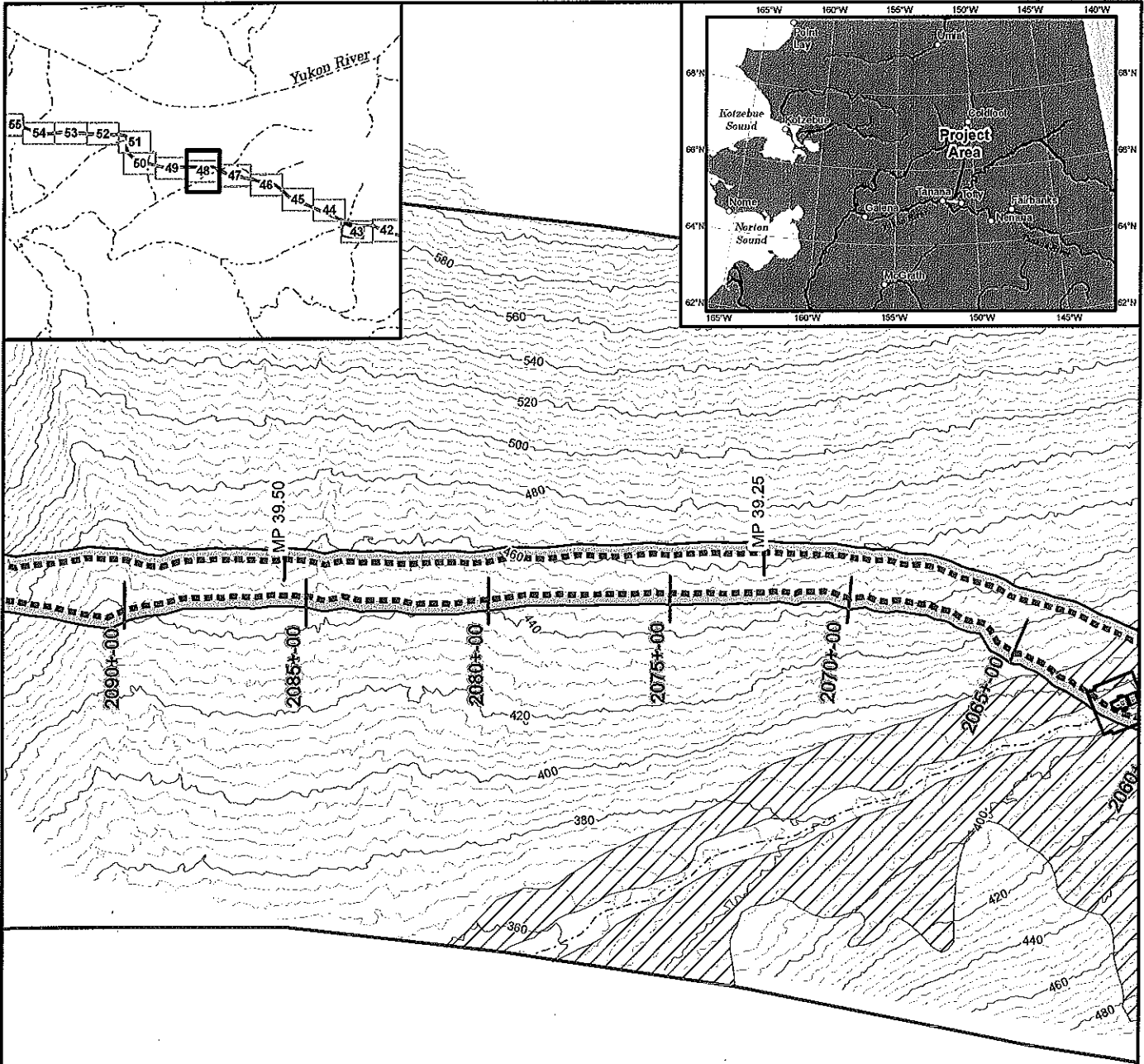
Plan View, MP: 38.44 to 39.05

Tanana River Basin

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POA-2013-50, Yukon River



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Legend

Scale 1:5,000
0 150 300 450 Feet

N

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ROAD TO TANANA PROJECT

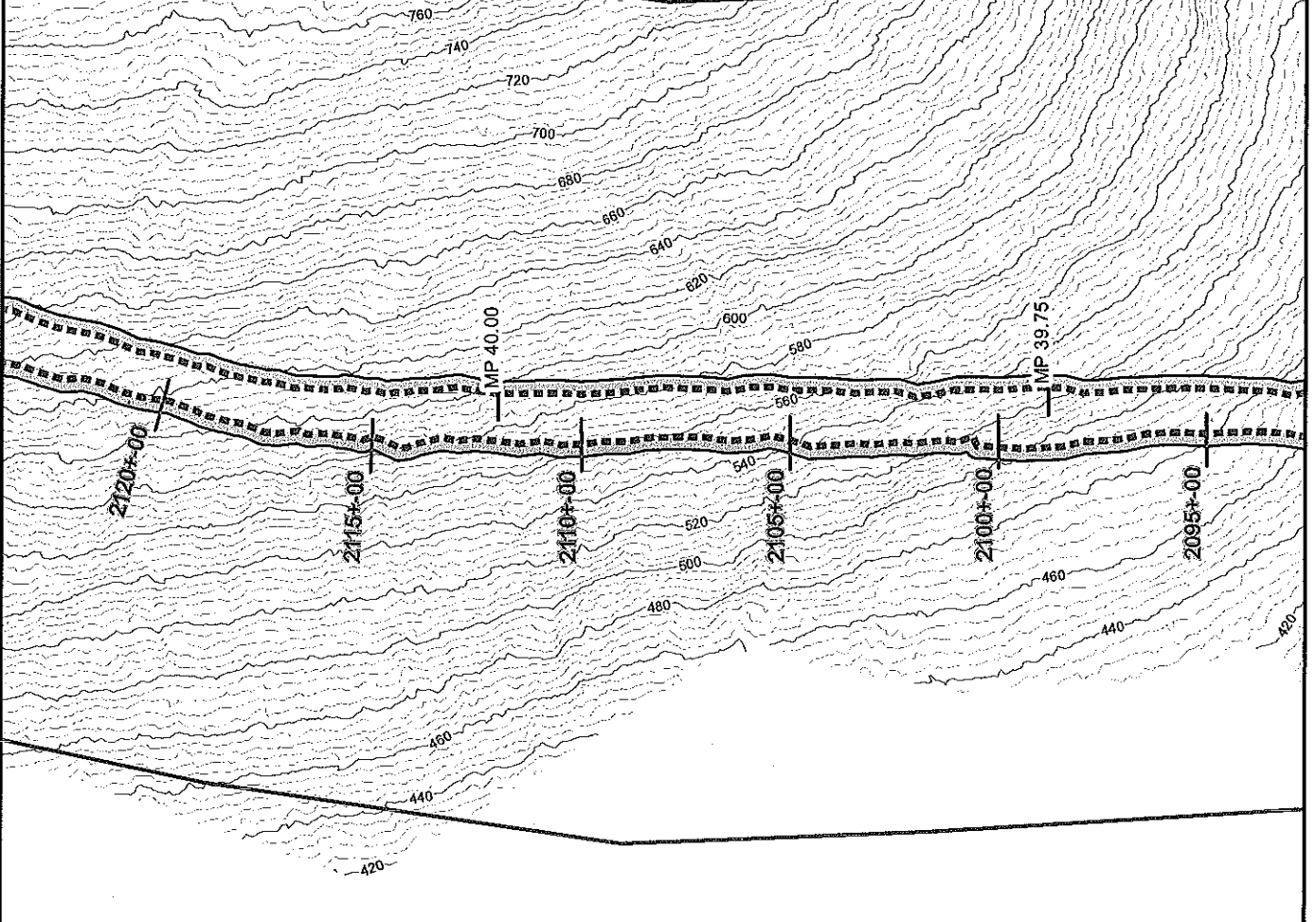
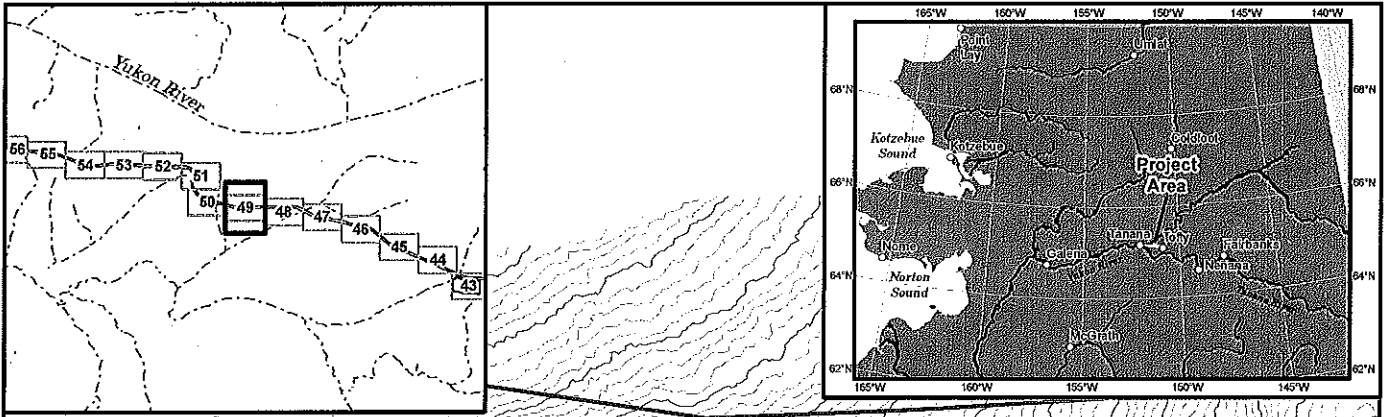
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Plan View, MP: 39.05 to 39.64

Tanana River Basin

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POA-2013-50, Yukon River



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Legend

Cut/Fill Boundary	Material Site
Vegetation Clearing	Culvert: Type A & B Pipe (See Cross Section Figures 70, 71, 72 & 73)
Vegetative Screen/Buffer	Culvert: Fish Pass Pipe (See Cross Section Figures 94, 95, 72 & 73)
3PPI Study Area Boundary (12/05/2012)	MS Section Cut Lines
Wetland	20ft Interval Contour
Upland	4ft Interval Contour
Wetland/Upland Mosaic	3PPI Arcs (12/5/2012) (All drainages are unnamed unless labeled on sheet)
Navigable Waters	
Other Waters	
Previously Disturbed	

Scale 1:5,000
0 150 300 450 Feet

N
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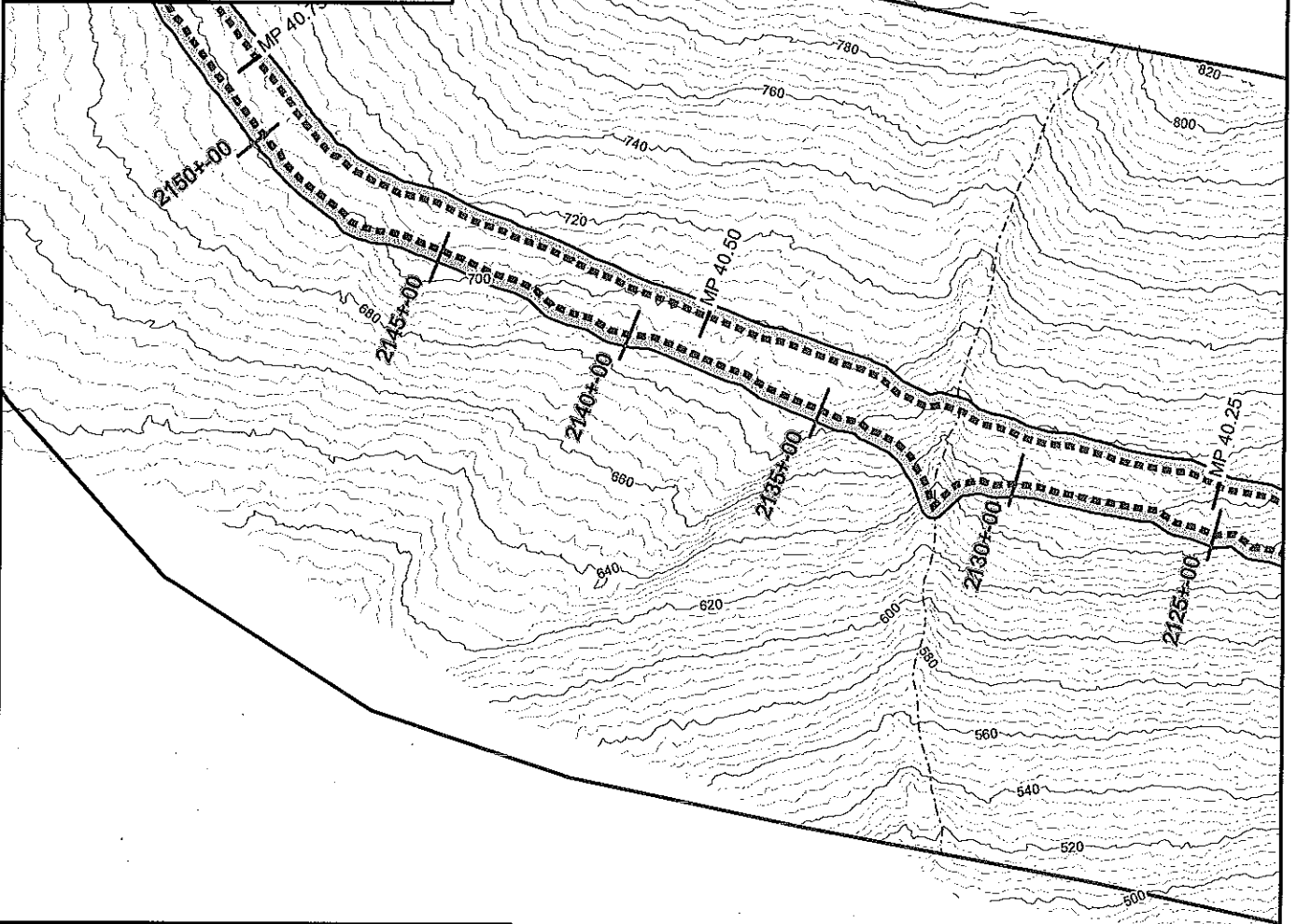
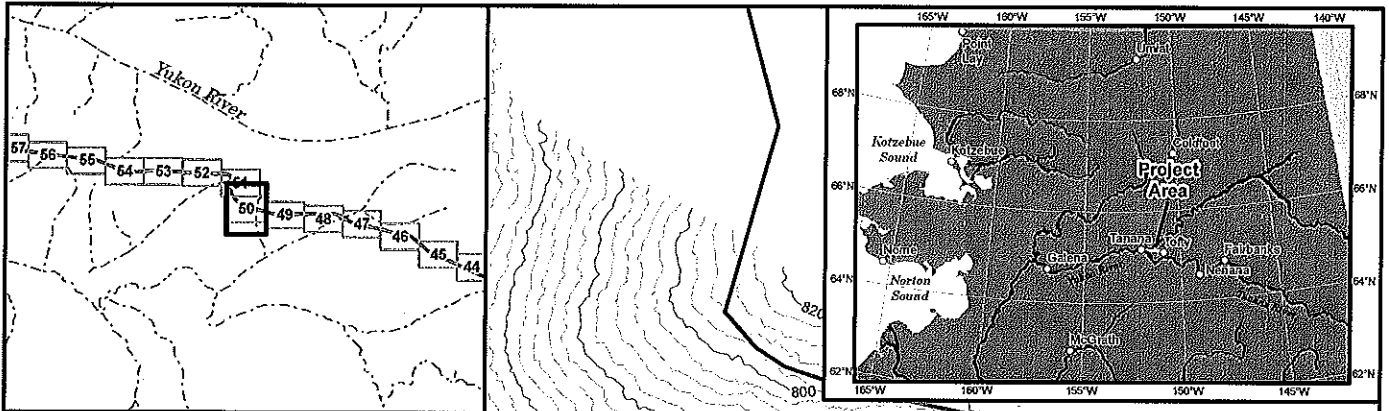
ROAD TO TANANA PROJECT

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Plan View, MP: 39.64 to 40.22

Tanana River Basin

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Legend

	Cut/Fill Boundary		Material Site
	Vegetation Clearing		Culvert: Type A & B Pipe (See Cross Section Figures 70, 71, 72 & 73)
	Vegetative Screen/Buffer		Culvert: Fish Pass Pipe (See Cross Section Figures 94, 95, 72 & 73)
	3PPI Study Area Boundary (12/05/2012)		MS Section Cut Lines
	Wetland		20ft Interval Contour
	Upland		4ft Interval Contour
	Wetland/Upland Mosaic		3PPI Arcs (12/5/2012)
	Navigable Waters		(All drainages are unnamed unless labeled on sheet)
	Other Waters		
	Previously Disturbed		

Scale 1:5,000
0 150 300 450 Feet

N

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ROAD TO TANANA PROJECT

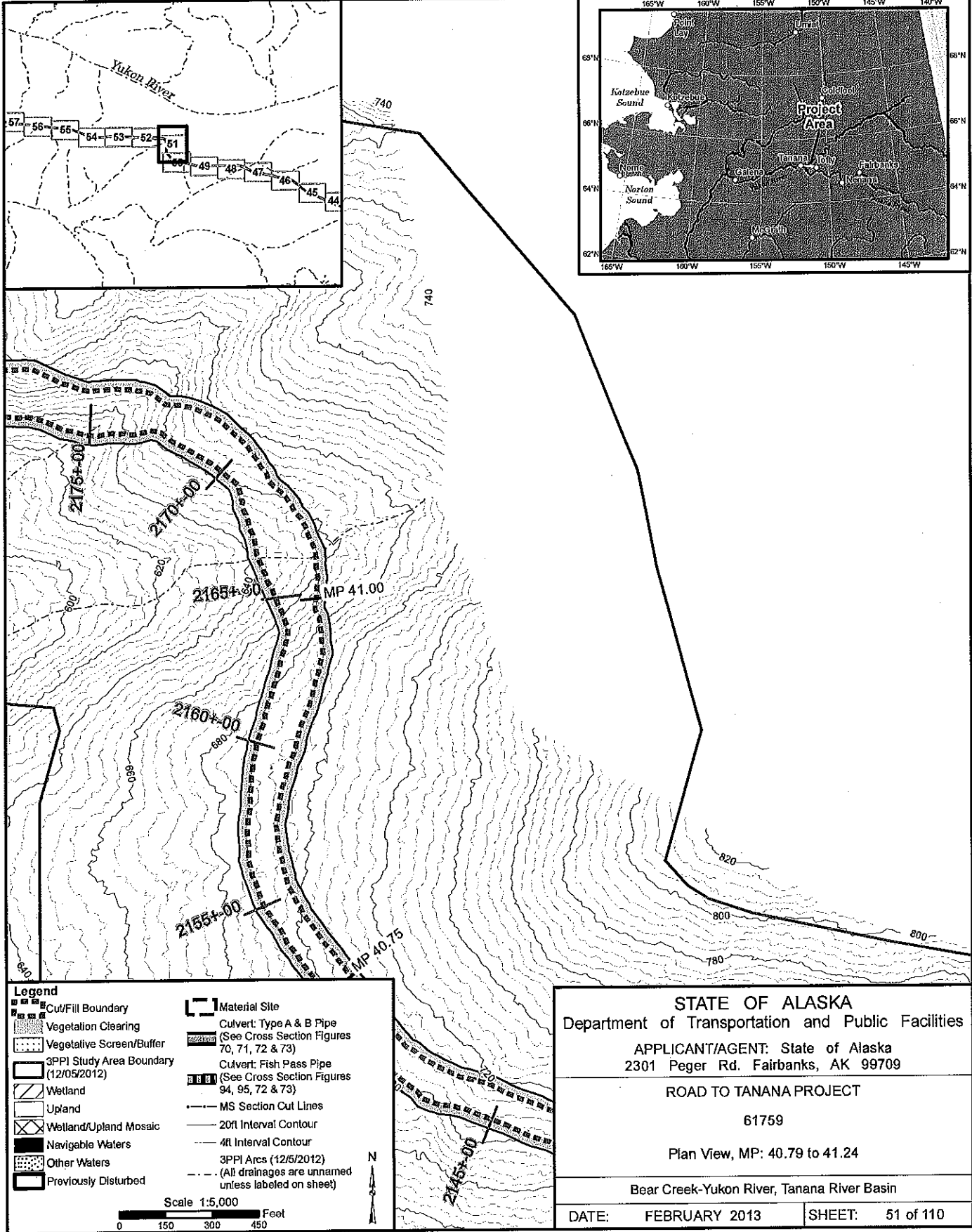
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Plan View, MP: 40.22 to 40.79

Tanana River Basin

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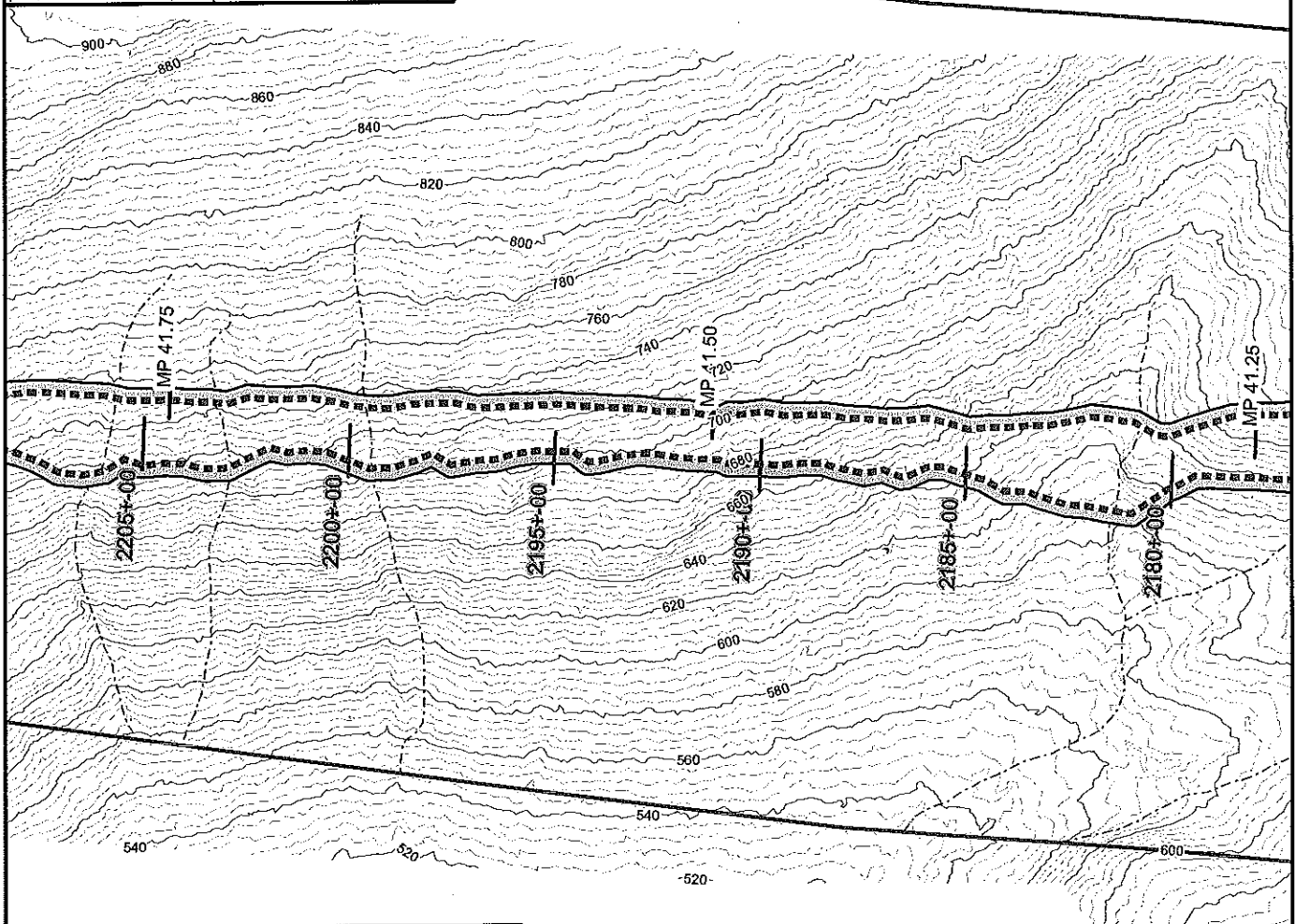
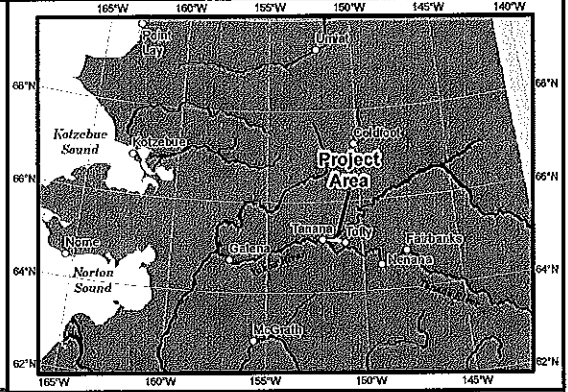
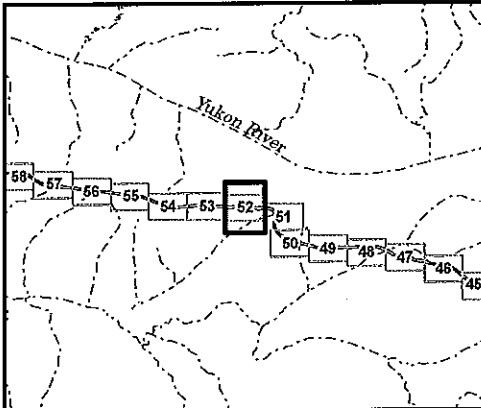
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<p>STATE OF ALASKA Department of Transportation and Public Facilities</p>	
<p>APPLICANT/AGENT: State of Alaska 2301 Peger Rd. Fairbanks, AK 99709</p>	
<p>ROAD TO TANANA PROJECT</p>	
<p>61759</p>	
<p>Plan View, MP: 40.79 to 41.24</p>	
<p>Bear Creek-Yukon River, Tanana River Basin</p>	
DATE: FEBRUARY 2013	SHEET: 51 of 110

POA-2013-50, Yukon River



Legend

	Cut/Fill Boundary		Material Site
	Vegetation Clearing		Culvert: Type A & B Pipe (See Cross Section Figures 70, 71, 72 & 73)
	Vegetative Screen/Buffer		Culvert: Fish Pass Pipe (See Cross Section Figures 94, 95, 72 & 73)
	3PPI Study Area Boundary (12/05/2012)		MS Section Cut Lines
	Wetland		20ft Interval Contour
	Upland		4R Interval Contour
	Wetland/Upland Mosaic		3PPI Arcs (12/5/2012) (All drainages are unnamed unless labeled on sheet)
	Navigable Waters		
	Other Waters		
	Previously Disturbed		

Scale 1:5,000
0 150 300 450 Feet

STATE OF ALASKA
Department of Transportation and Public Facilities

APPLICANT/AGENT: State of Alaska
2301 Peger Rd. Fairbanks, AK 99709

ROAD TO TANANA PROJECT

61759

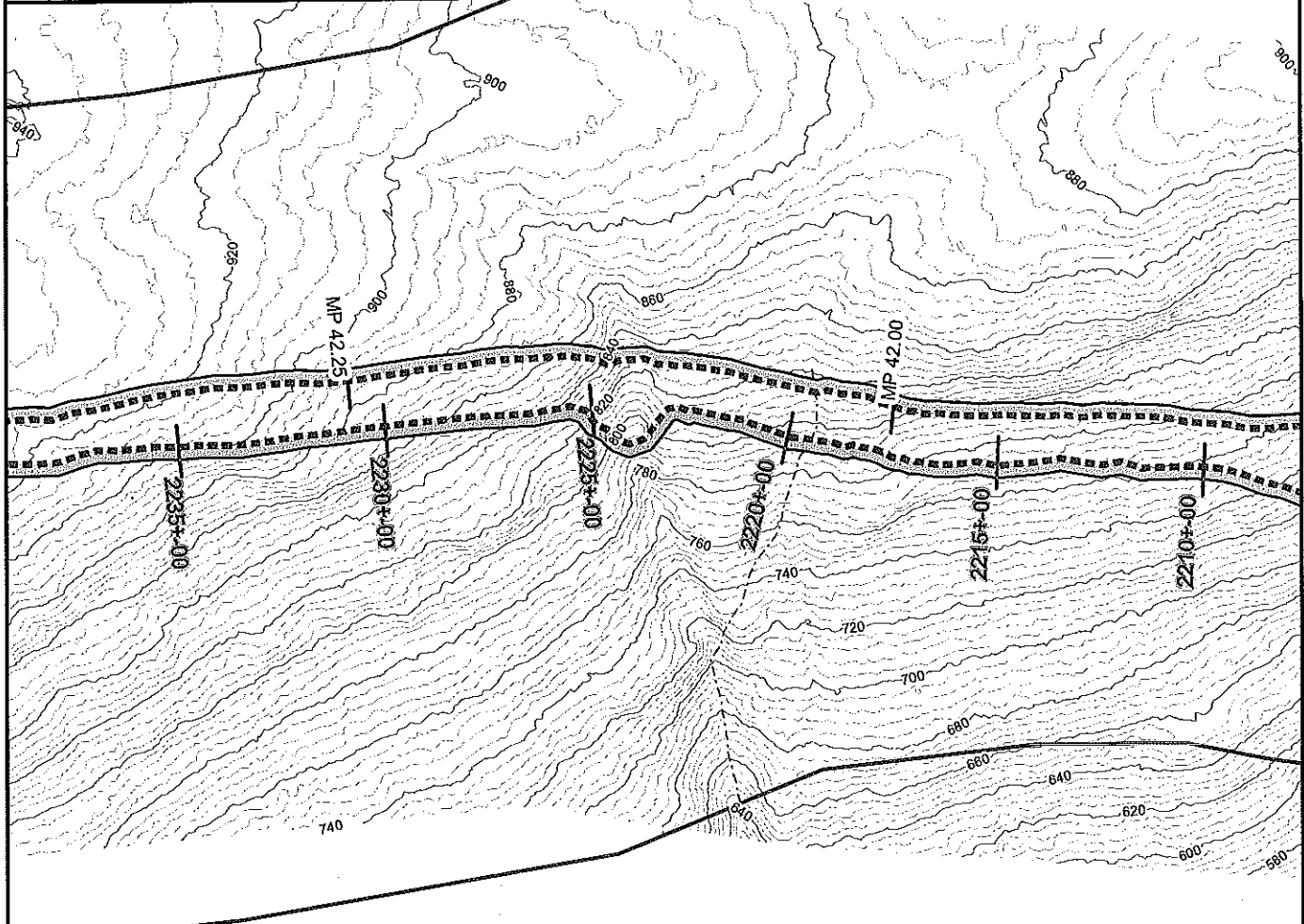
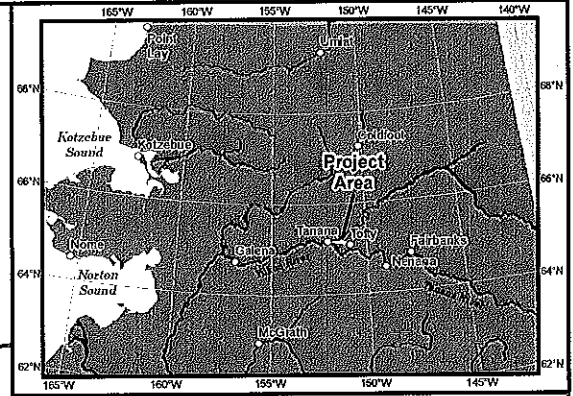
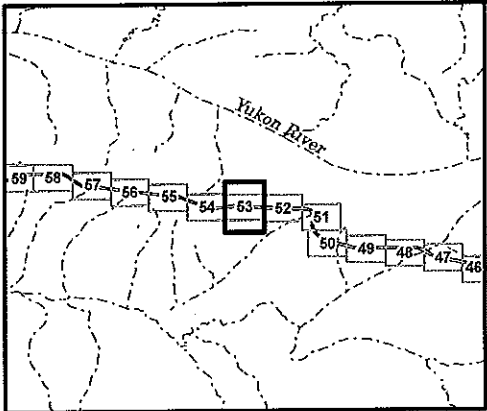
Plan View, MP: 41.24 to 41.82

Bear Creek-Yukon River, Tanana River Basin

DATE: FEBRUARY 2013	SHEET: 52 of 110
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POA-2013-50, Yukon River



Legend

	Cut/Fill Boundary		Material Site
	Vegetation Clearing		Culvert: Type A & B Pipe (See Cross Section Figures 70, 71, 72 & 73)
	Vegetative Screen/Buffer		Culvert: Fish Pass Pipe (See Cross Section Figures 94, 95, 72 & 73)
	3PPI Study Area Boundary (12/05/2012)		MS Section Cut Lines
	Wetland		20ft Interval Contour
	Upland		4ft Interval Contour
	Wetland/Upland Mosaic		3PPI Arcs (12/5/2012)
	Navigable Waters		3PPI Arcs (All drainages are unnamed unless labeled on sheet)
	Other Waters		
	Previously Disturbed		

Scale 1:5,000
0 150 300 450 Feet

N

STATE OF ALASKA
Department of Transportation and Public Facilities

APPLICANT/AGENT: State of Alaska
2301 Peger Rd. Fairbanks, AK 99709

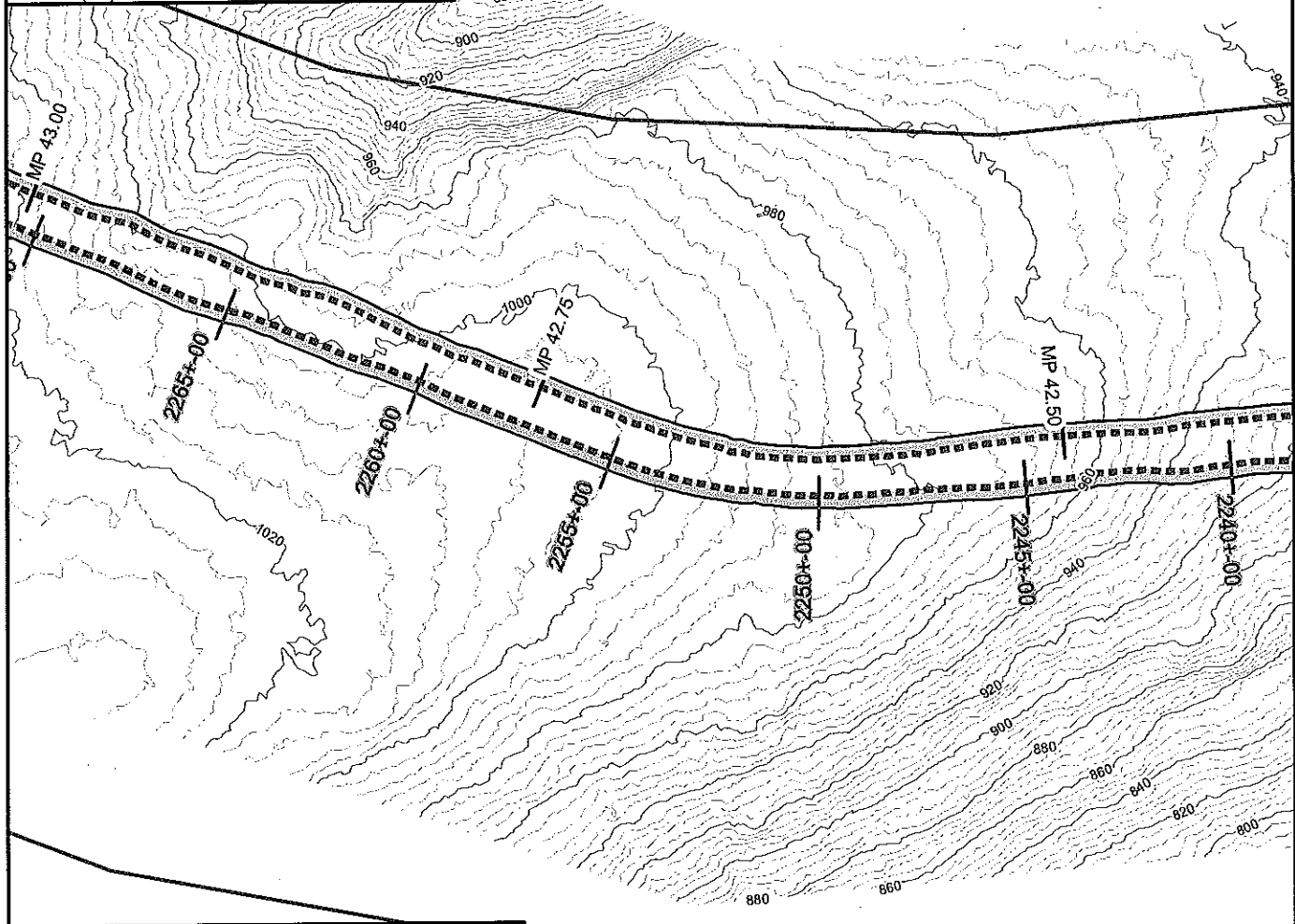
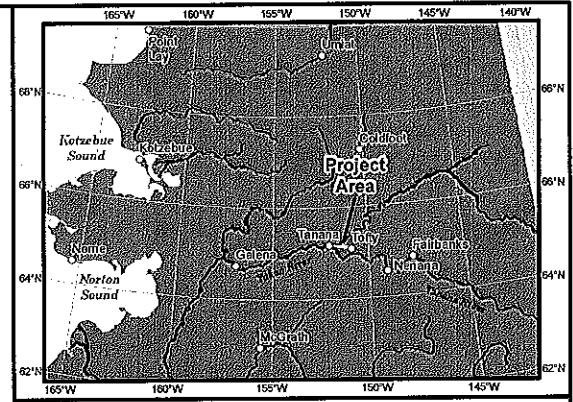
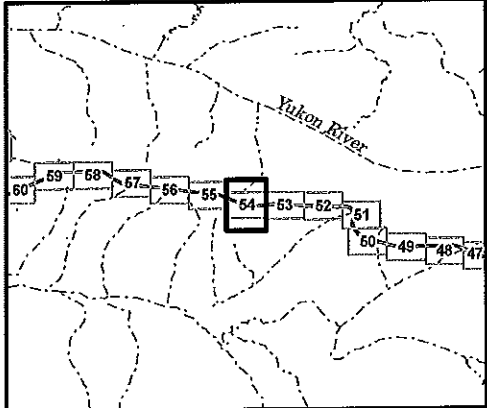
ROAD TO TANANA PROJECT
61759
Plan View, MP: 41.82 to 42.4

Bear Creek-Yukon River, Tanana River Basin

DATE: FEBRUARY 2013	SHEET: 53 of 110
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Legend

Cut/Fill Boundary	Material Site
Vegetation Clearing	Culvert: Type A & B Pipe (See Cross Section Figures 70, 71, 72 & 73)
Vegetative Screen/Buffer	Culvert: Fish Pass Pipe (See Cross Section Figures 94, 95, 72 & 73)
3PPI Study Area Boundary (12/05/2012)	MS Section Cut Lines
Wetland	20ft Interval Contour
Upland	4ft Interval Contour
Wetland/Upland Mosaic	3PPI Arcs (12/5/2012)
Navigable Waters	(All drainages are unnamed unless labeled on sheet)
Other Waters	
Previously Disturbed	

Scale 1:5,000
0 150 300 450 Feet

N

STATE OF ALASKA
Department of Transportation and Public Facilities

APPLICANT/AGENT: State of Alaska
2301 Peger Rd. Fairbanks, AK 99709

ROAD TO TANANA PROJECT

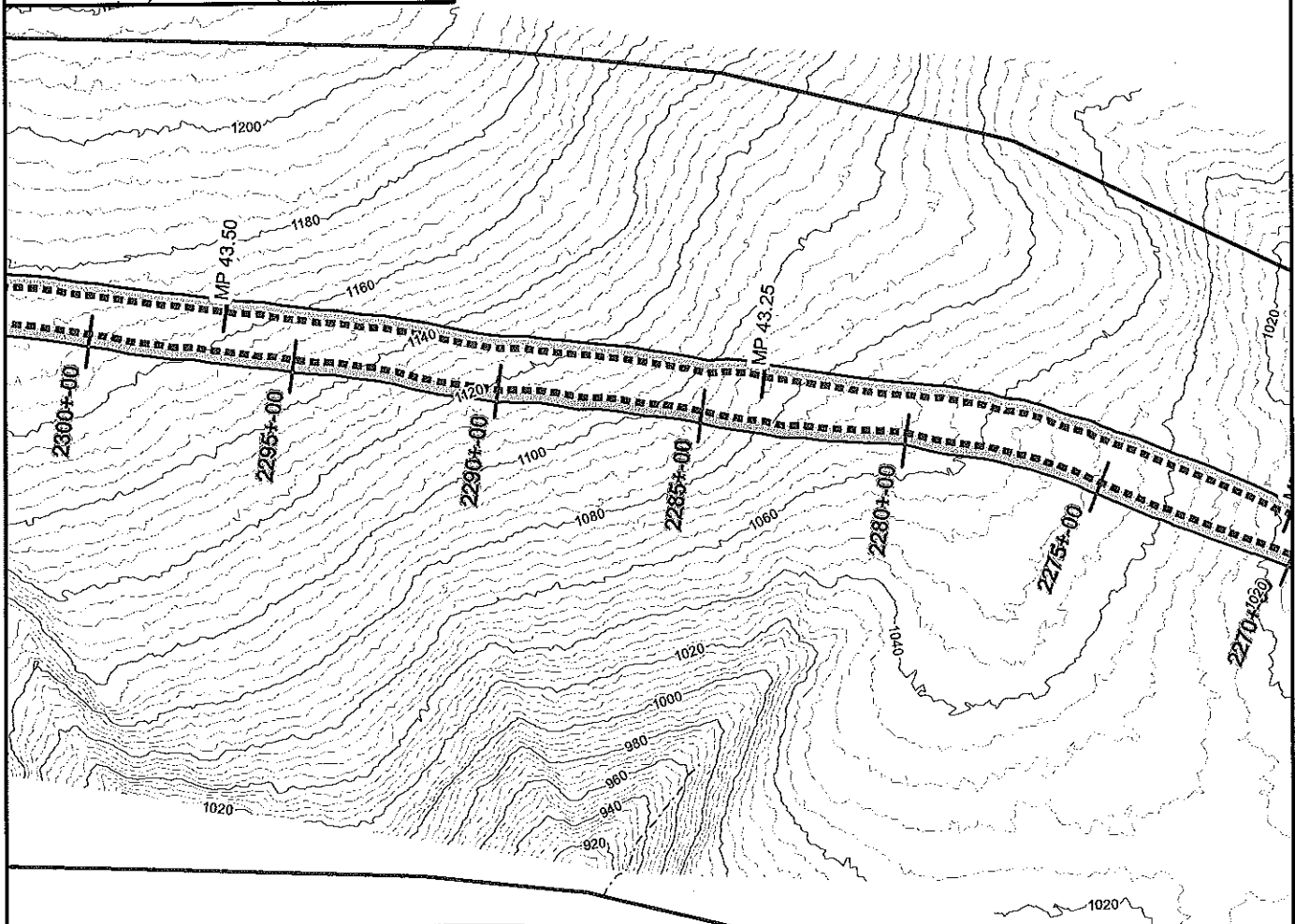
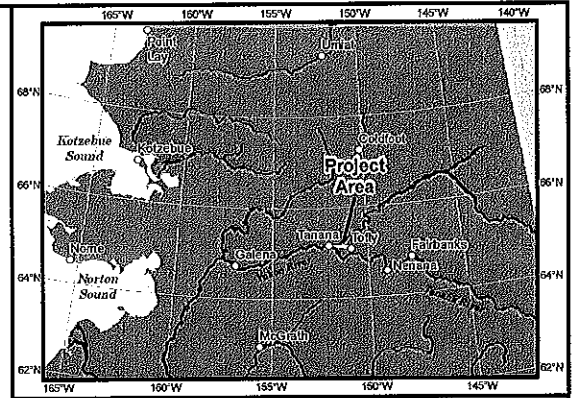
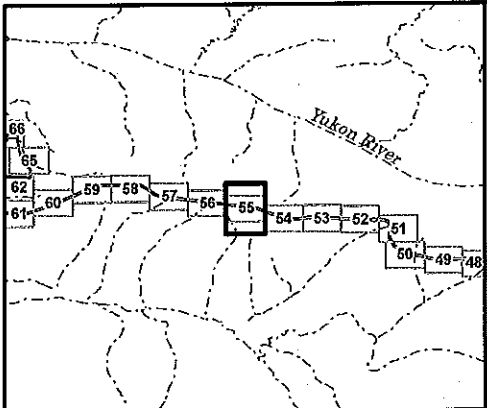
61759

Plan View, MP: 42.4 to 43

Bear Creek-Yukon River, Tanana River Basin

DATE: FEBRUARY 2013	SHEET: 54 of 110
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POA-2013-50, Yukon River



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Legend

	Cut/Fill Boundary		Material Site
	Vegetation Clearing		Culvert: Type A & B Pipe (See Cross Section Figures 70, 71, 72 & 73)
	Vegetative Screen/Buffer		Culvert: Fish Pass Pipe (See Cross Section Figures 94, 95, 72 & 73)
	3PPI Study Area Boundary (12/05/2012)		MS Section Cut Lines
	Wetland		20ft Interval Contour
	Upland		4ft Interval Contour
	Wetland/Upland Mosaic		3PPI Arcs (12/5/2012)
	Navigable Waters		(All drainages are unnamed unless labeled on sheet)
	Other Waters		
	Previously Disturbed		

Scale 1:5,000
0 150 300 450 Feet

N

STATE OF ALASKA
Department of Transportation and Public Facilities

APPLICANT/AGENT: State of Alaska
2301 Peger Rd. Fairbanks, AK 99709

ROAD TO TANANA PROJECT

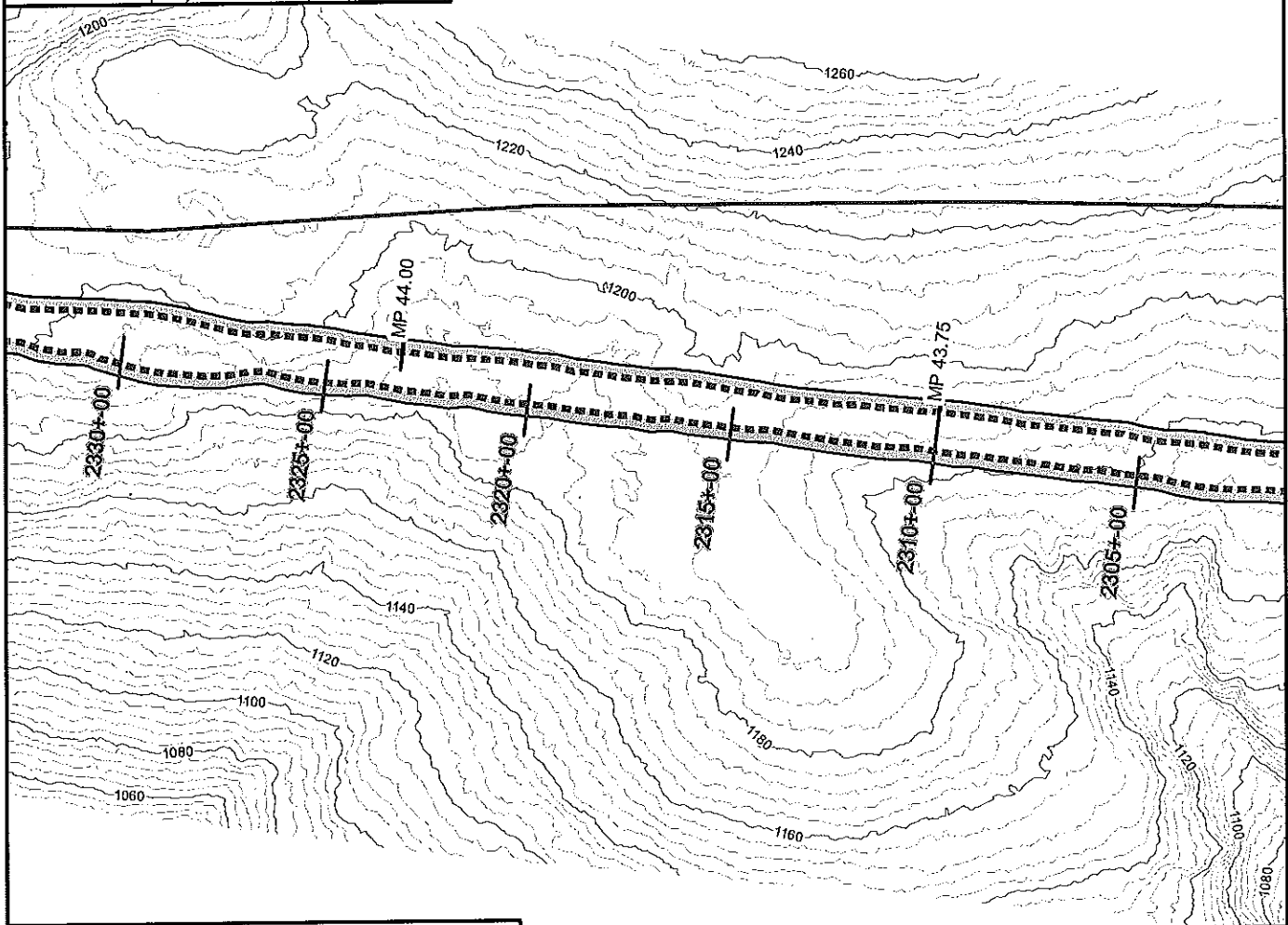
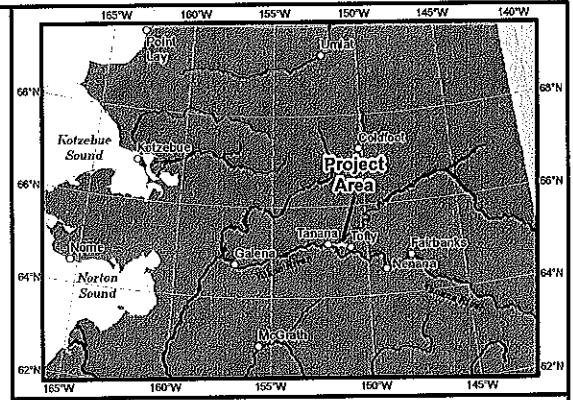
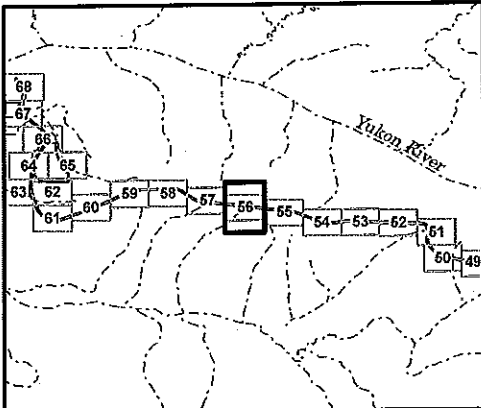
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Plan View, MP: 43 to 43.59

Bear Creek-Yukon River, Tanana River Basin

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POA-2013-50, Yukon River



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Legend

	Cut/Fill Boundary		Material Site
	Vegetation Clearing		Culvert: Type A & B Pipe (See Cross Section Figures 70, 71, 72 & 73)
	Vegetative Screen/Buffer		Culvert: Fish Pass Pipe (See Cross Section Figures 94, 95, 72 & 73)
	3PPI Study Area Boundary (12/05/2012)		MS Section Cut Lines
	Wetland		20ft Interval Contour
	Upland		4ft Interval Contour
	Wetland/Upland Mosaic		3PPI Arcs (12/5/2012) (All drainages are unnamed unless labeled on sheet)
	Navigable Waters		
	Other Waters		
	Previously Disturbed		

Scale 1:5,000
0 150 300 450 Feet

N

STATE OF ALASKA
Department of Transportation and Public Facilities

APPLICANT/AGENT: State of Alaska
2301 Peger Rd. Fairbanks, AK 99709

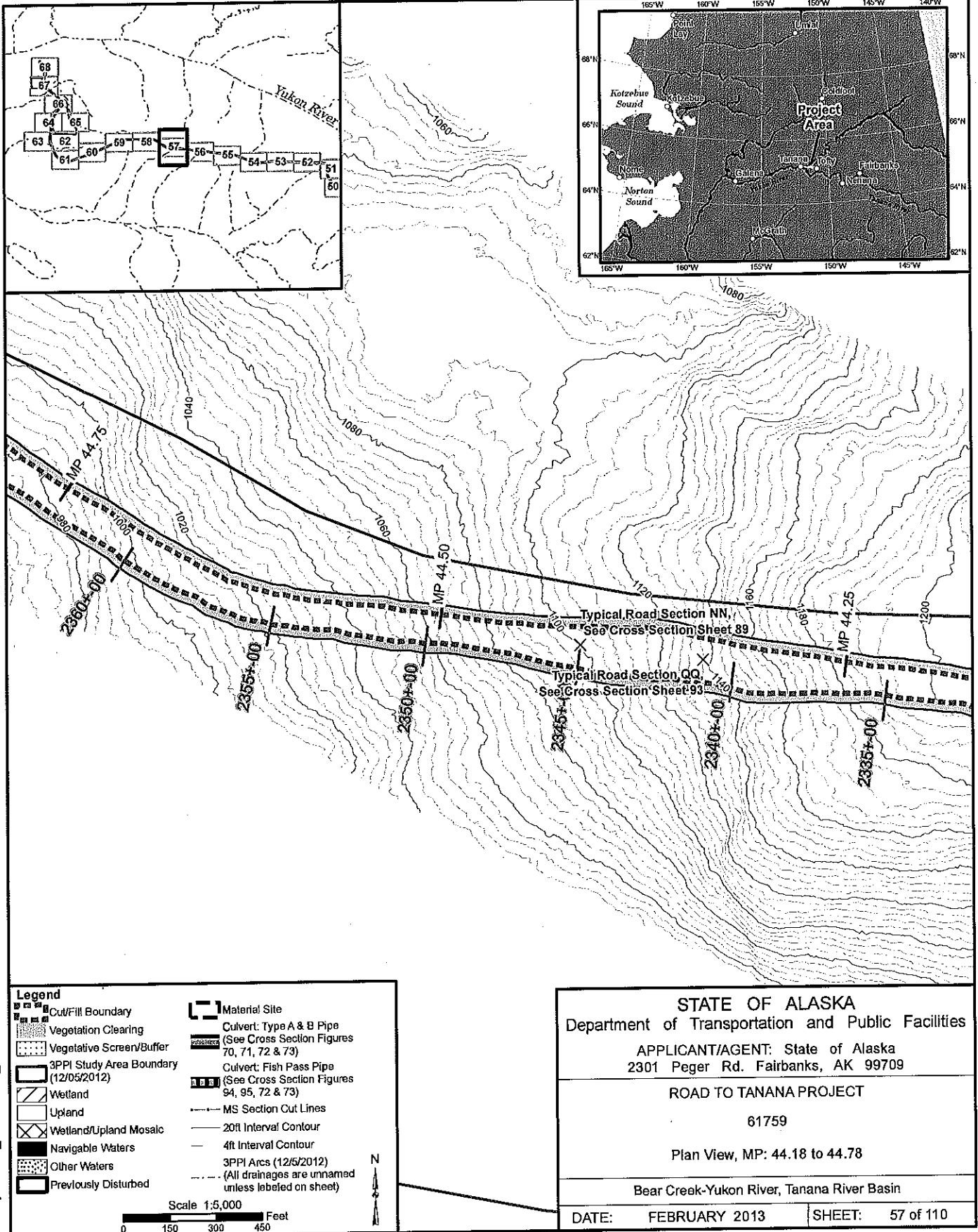
ROAD TO TANANA PROJECT

61759

Plan View, MP: 43.59 to 44.18

Bear Creek-Yukon River, Tanana River Basin

DATE: FEBRUARY 2013	SHEET: 56 of 110
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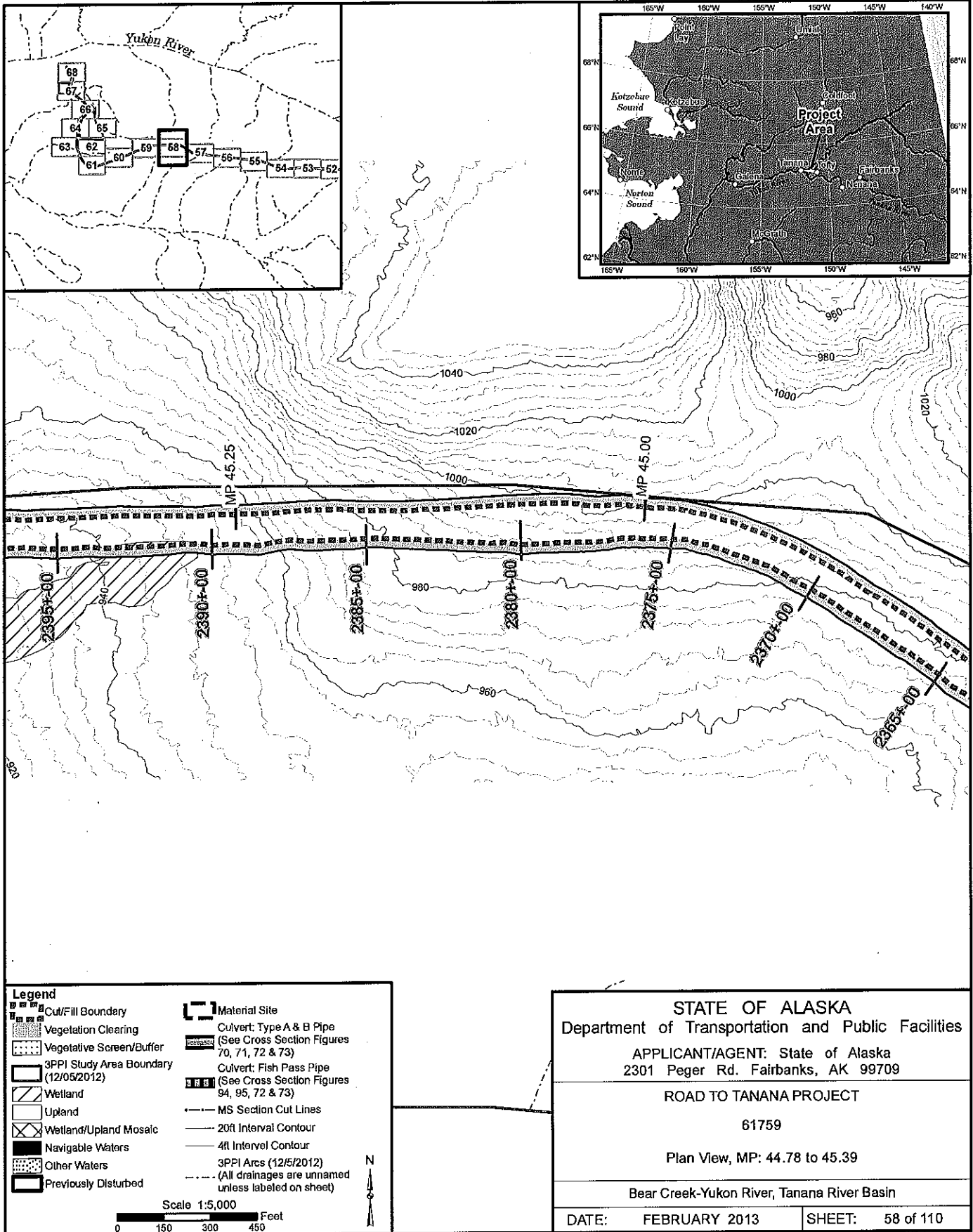
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	Culvert Fill Boundary		Material Site
	Vegetation Clearing		Culvert: Type A & B Pipe (See Cross Section Figures 70, 71, 72 & 73)
	Vegetative Screen/Buffer		Culvert: Fish Pass Pipe (See Cross Section Figures 94, 95, 72 & 73)
	3PPI Study Area Boundary (12/05/2012)		MS Section Cut Lines
	Wetland		20ft Interval Contour
	Upland		4ft Interval Contour
	Wetland/Upland Mosaic		3PPI Arcs (12/6/2012) (All drainages are unnamed unless labeled on sheet)
	Navigable Waters		
	Other Waters		
	Previously Disturbed		

Scale 1:5,000
0 150 300 450 Feet

N

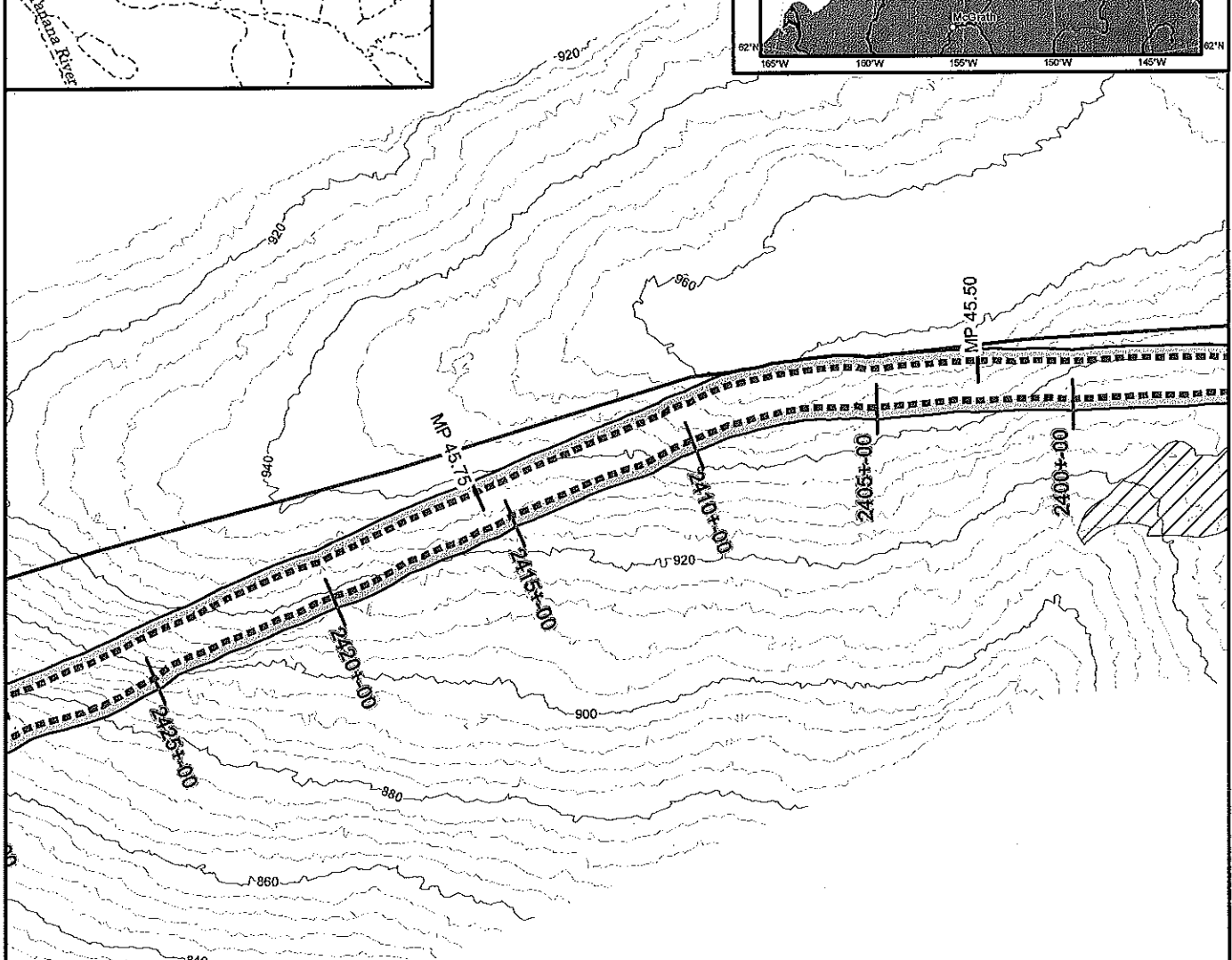
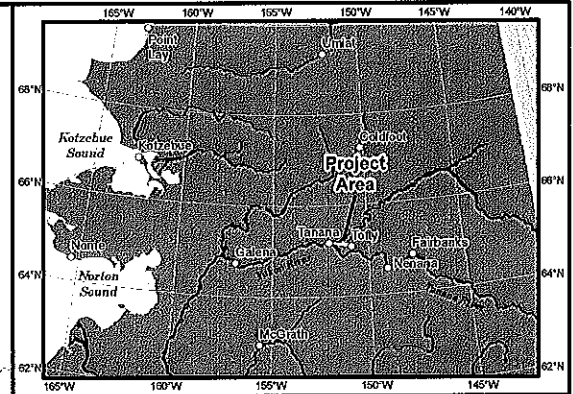
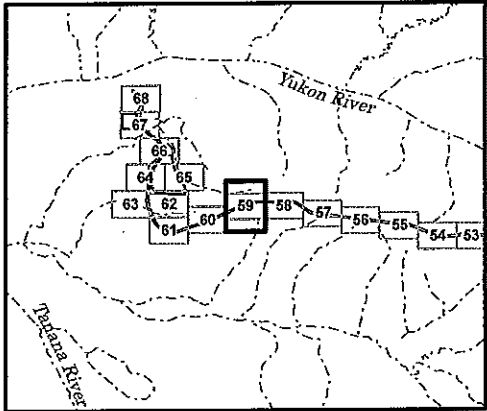
STATE OF ALASKA Department of Transportation and Public Facilities	
APPLICANT/AGENT: State of Alaska 2301 Peger Rd. Fairbanks, AK 99709	
ROAD TO TANANA PROJECT 61759 Plan View, MP: 44.18 to 44.78	
Bear Creek-Yukon River, Tanana River Basin	
DATE: FEBRUARY 2013	SHEET: 57 of 110



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<p>STATE OF ALASKA Department of Transportation and Public Facilities</p>	
<p>APPLICANT/AGENT: State of Alaska 2301 Peger Rd. Fairbanks, AK 99709</p>	
<p>ROAD TO TANANA PROJECT</p>	
<p>61759</p>	
<p>Plan View, MP: 44.78 to 45.39</p>	
<p>Bear Creek-Yukon River, Tanana River Basin</p>	
DATE:	FEBRUARY 2013
SHEET:	58 of 110

POA-2013-50, Yukon River



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Legend

Cut/Fill Boundary	Material Site
Vegetation Clearing	Culvert: Type A & B Pipe (See Cross Section Figures 70, 71, 72 & 73)
Vegetative Screen/Buffer	Culvert: Fish Pass Pipe (See Cross Section Figures 94, 95, 72 & 73)
3PPI Study Area Boundary (12/05/2012)	MS Section Cut Lines
Wetland	20ft Interval Contour
Upland	4ft Interval Contour
Wetland/Upland Mosaic	3PPI Arcs (12/5/2012)
Navigable Waters	(All drainages are unnamed unless labeled on sheet)
Other Waters	
Previously Disturbed	

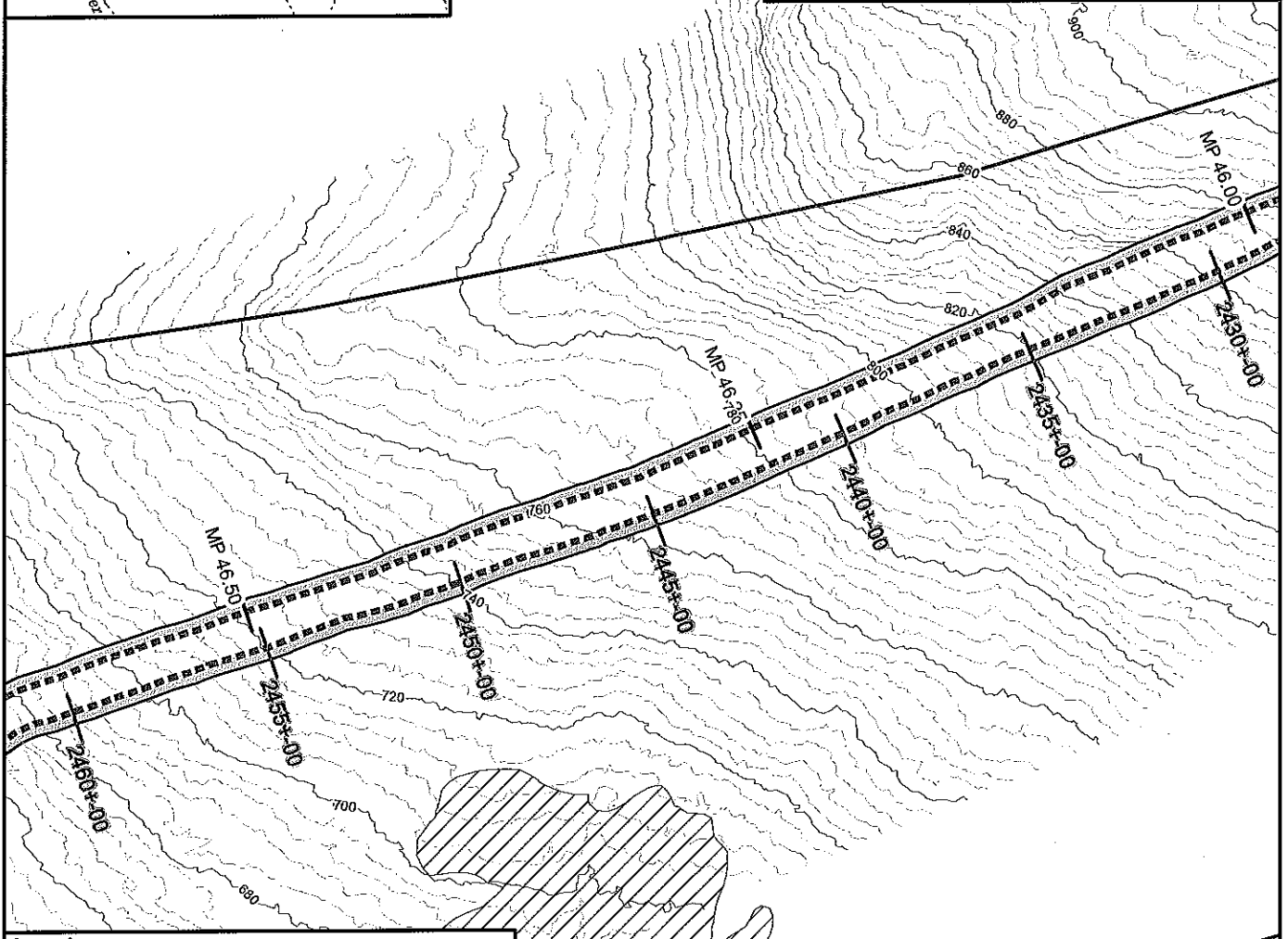
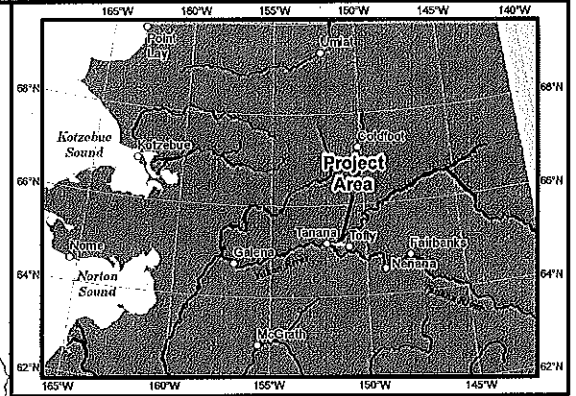
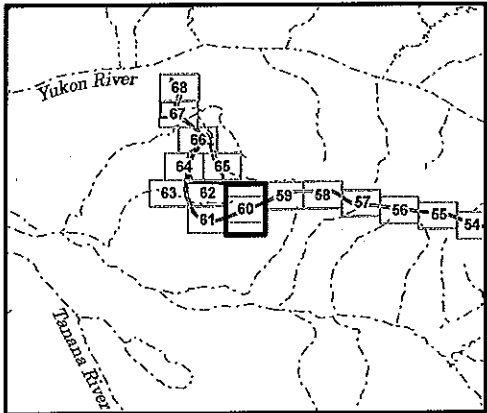
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<p>STATE OF ALASKA Department of Transportation and Public Facilities</p> <p>APPLICANT/AGENT: State of Alaska 2301 Peger Rd. Fairbanks, AK 99709</p> <p>ROAD TO TANANA PROJECT</p> <p>61759</p> <p>Plan View, MP: 45.39 to 45.99</p> <p>Tanana River Basin</p>	
DATE: FEBRUARY 2013	SHEET: 59 of 110

POA-2013-50, Yukon River



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Legend

	Cut/Fill Boundary		Material Site
	Vegetation Clearing		Culvert: Type A & B Pipe (See Cross Section Figures 70, 71, 72 & 73)
	Vegetative Screen/Buffer		Culvert: Fish Pass Pipe (See Cross Section Figures 94, 95, 72 & 73)
	3PPI Study Area Boundary (12/05/2012)		MS Section Cut Lines
	Wetland		20ft Interval Contour
	Upland		4ft Interval Contour
	Wetland/Upland Mosaic		3PPI Arcs (12/05/2012)
	Navigable Waters		(All drainages are unnamed unless labeled on sheet)
	Other Waters		
	Previously Disturbed		

Scale 1:5,000 Feet

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N

STATE OF ALASKA
 Department of Transportation and Public Facilities

APPLICANT/AGENT: State of Alaska
 2301 Peger Rd. Fairbanks, AK 99709

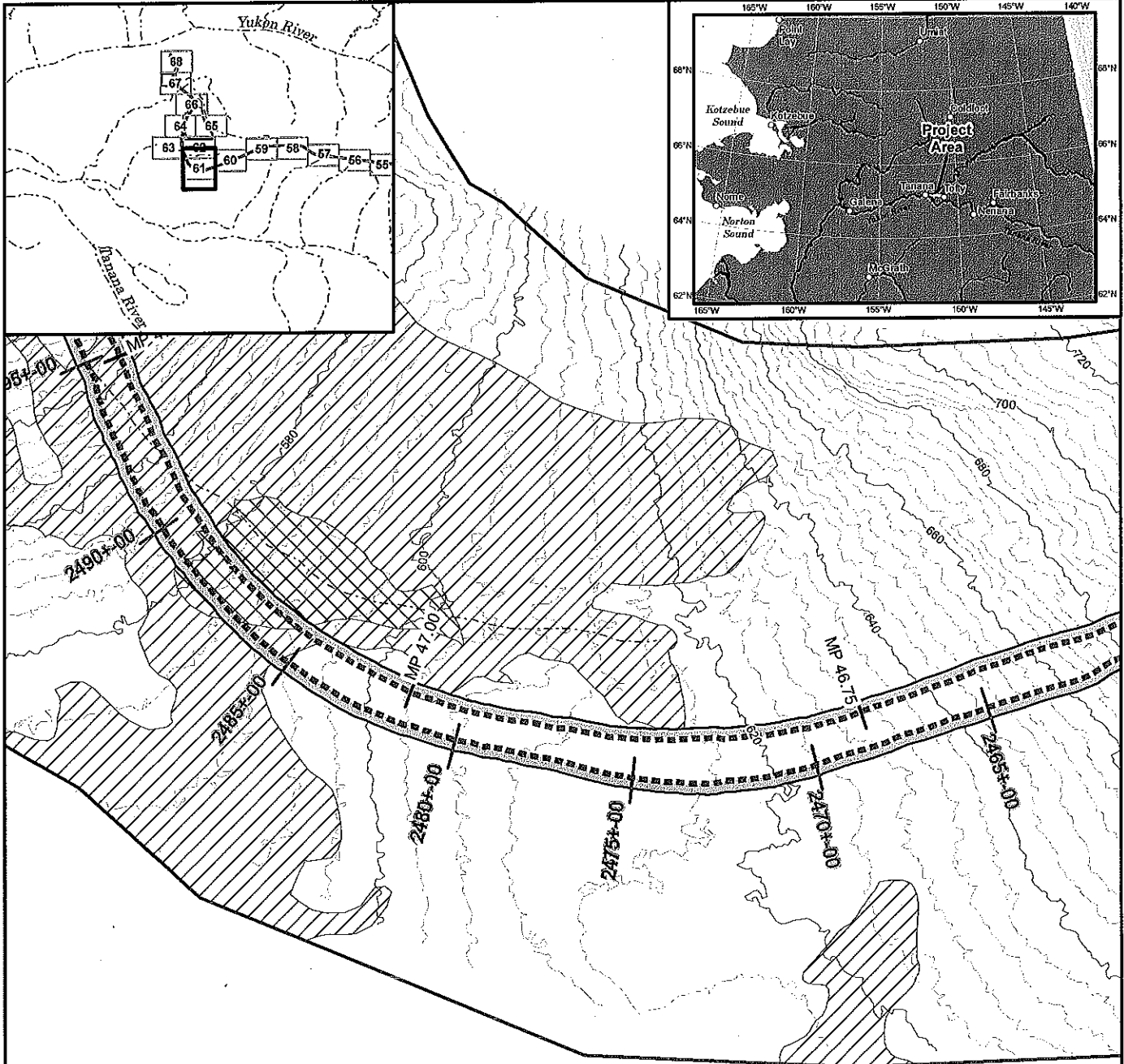
ROAD TO TANANA PROJECT

61759

Plan View, MP: 45.99 to 46.61

Tanana River Basin

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Legend

Cut/Fill Boundary	Material Site
Vegetation Clearing	Culvert: Type A & B Pipe (See Cross Section Figures 70, 71, 72 & 73)
Vegetative Screen/Buffer	Culvert: Fish Pass Pipe (See Cross Section Figures 94, 95, 72 & 73)
3PPI Study Area Boundary (12/05/2012)	MS Section Cut Lines
Wetland	20R Interval Contour
Upland	4R Interval Contour
Wetland/Upland Mosaic	3PPI Arcs (12/5/2012) (All drainages are unnamed unless labeled on sheet)
Navigable Waters	
Other Waters	
Previously Disturbed	

Scale 1:5,000
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N

STATE OF ALASKA
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APPLICANT/AGENT: State of Alaska
2301 Peger Rd. Fairbanks, AK 99709

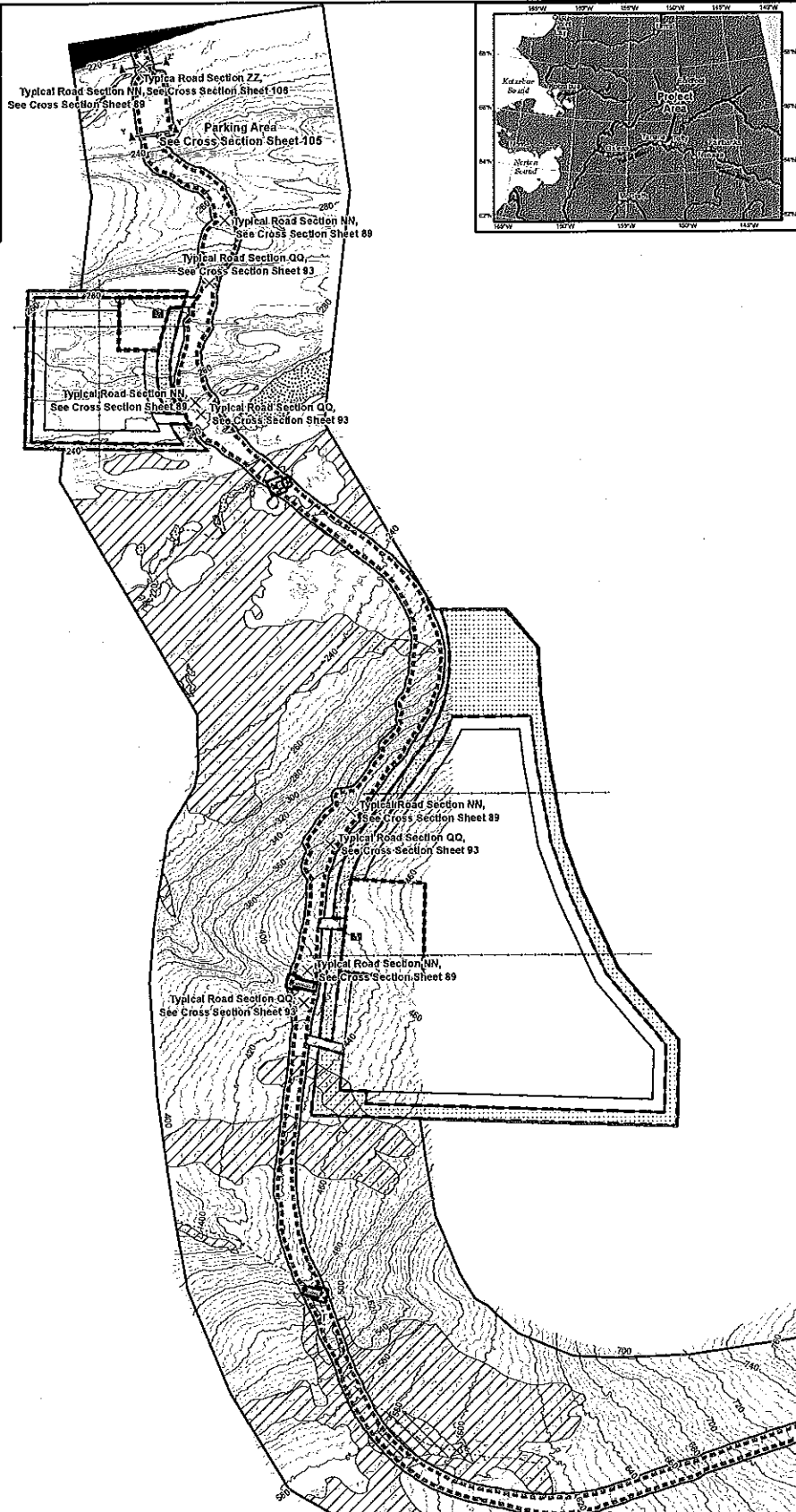
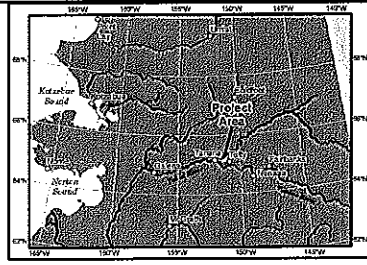
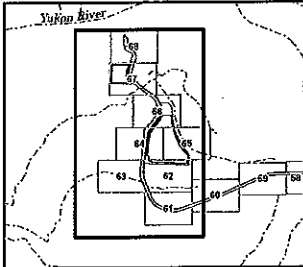
ROAD TO TANANA PROJECT

61759

Plan View, MP: 46.61 to 47.26

Tanana River Basin

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Legend

C&FB Boundary	Material SRs
Vegetation Clearing	C&FB Type A & B Pipe (See Cross Section Figures 70, 71, 72 & 73)
Vegetative Screen/Buffer	C&FB Fish Pass Pipe (See Cross Section Figures 94, 95, 72 & 73)
3PPI Study Area Boundary (12/05/2012)	MS Section Cut Lines
Wetland	20R Interval Contour
Upland	4R Interval Contour
Wetland/Upland Mesale	3PPI Arcs (12/5/2012) (All dm shapes are unnamed unless labeled on sheet)
Navigable Waters	
Other Waters	
Previously Disturbed	

Scale 1:10,000
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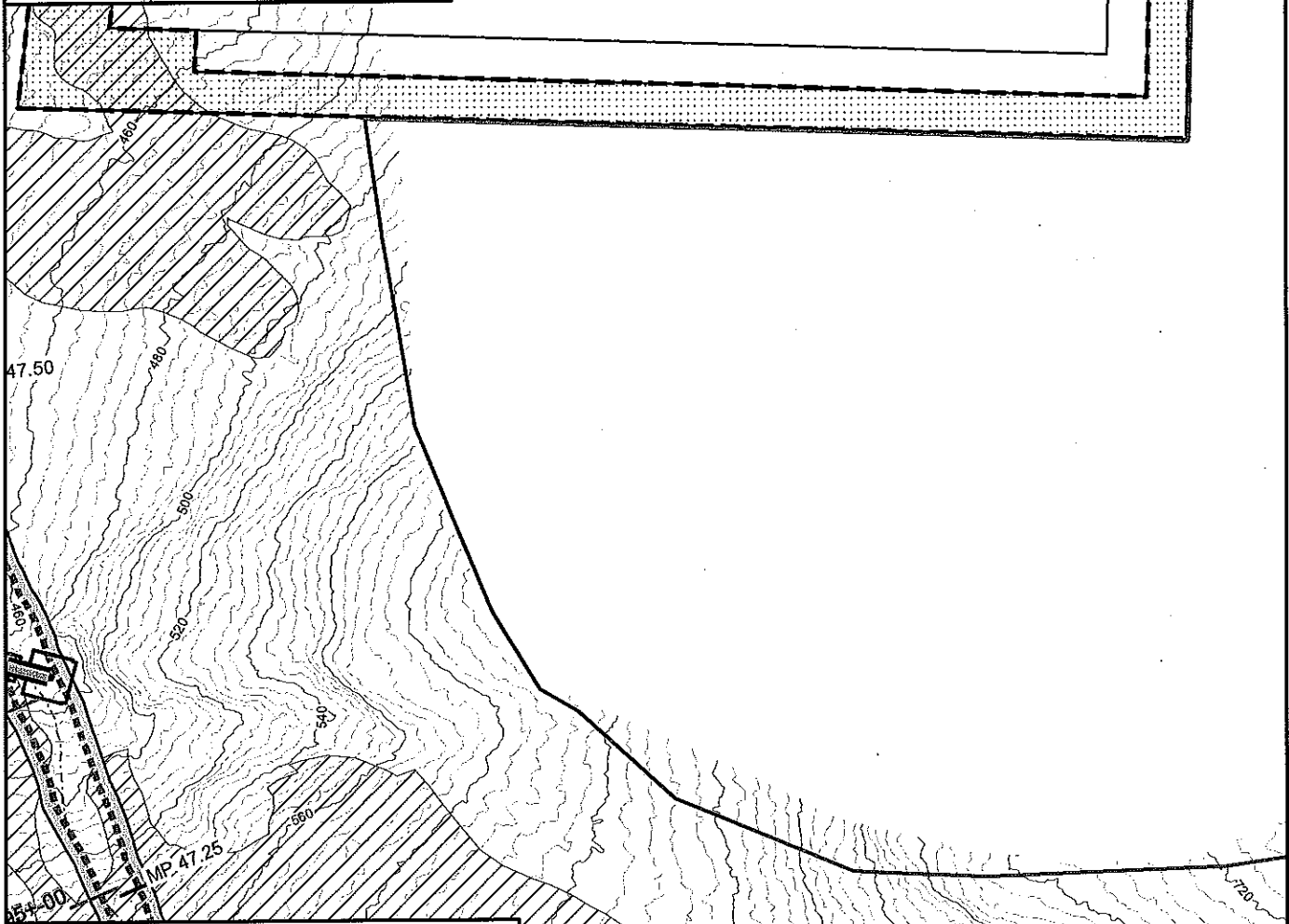
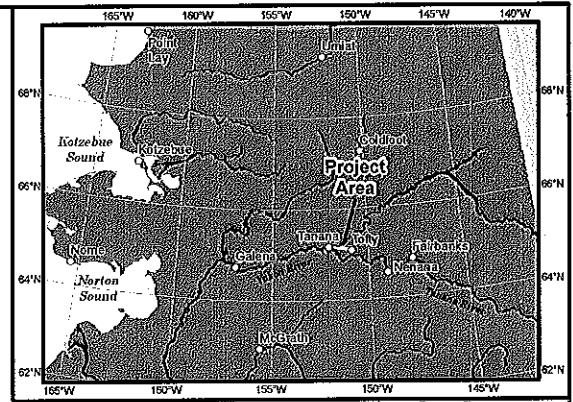
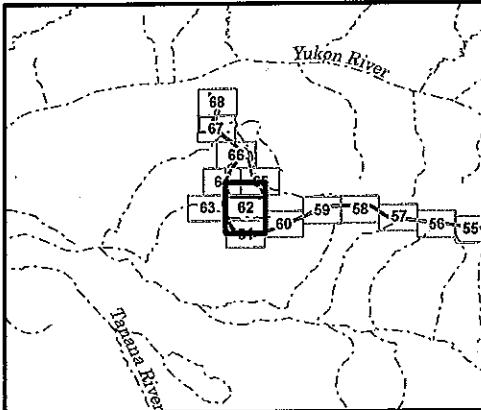
STATE OF ALASKA
Department of Transportation and Public Facilities
APPLICANT/AGENT: State of Alaska
2301 Peger Rd. Fairbanks, AK 99709

ROAD TO TANANA PROJECT
61759
Plan View, MP: 46.61 to 49.45

Bear Creek-Yukon River, Tanana River Basin

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Legend

	Cut/Fill Boundary		Material Site
	Vegetation Clearing		Culvert: Type A & B Pipe (See Cross Section Figures 70, 71, 72 & 73)
	Vegetative Screen/Buffer		Culvert: Fish Pass Pipe (See Cross Section Figures 94, 95, 72 & 73)
	3PPI Study Area Boundary (12/05/2012)		MS Section Cut Lines
	Wetland		20ft Interval Contour
	Upland		4ft Interval Contour
	Wetland/Upland Mosaic		3PPI Arcs (12/5/2012) (All drainages are unnamed unless labeled on sheet)
	Navigable Waters		
	Other Waters		
	Previously Disturbed		

Scale 1:5,000
0 150 300 450 Feet

N

STATE OF ALASKA
Department of Transportation and Public Facilities

APPLICANT/AGENT: State of Alaska
2301 Peger Rd. Fairbanks, AK 99709

ROAD TO TANANA PROJECT

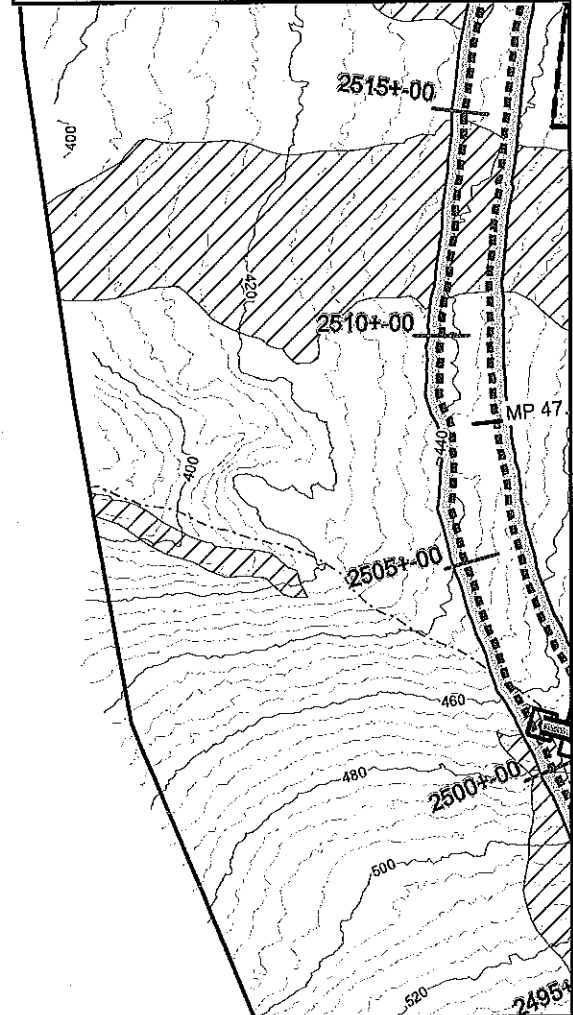
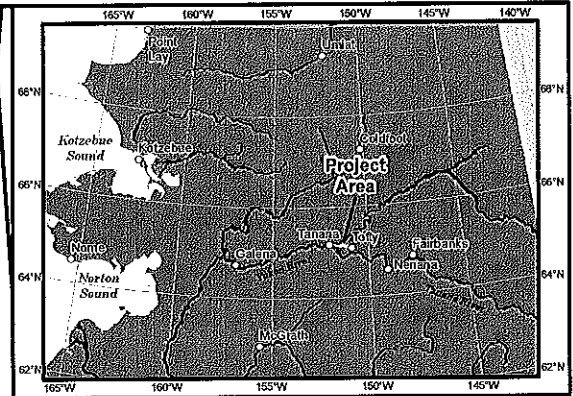
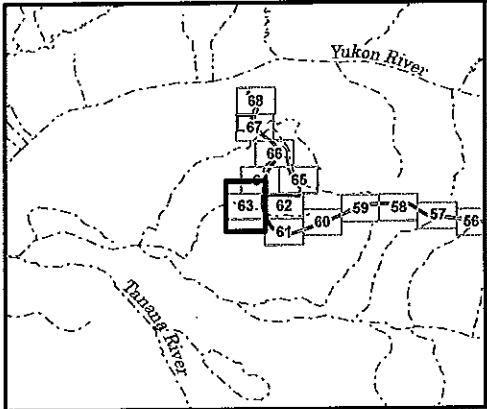
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Plan View, MP: 47.26 to 47.37

Tanana River Basin

DATE: FEBRUARY 2013 SHEET: 62 of 110

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Legend

	Cut/Fill Boundary		Material Site
	Vegetation Clearing		Culvert: Type A & B Pipe (See Cross Section Figures 70, 71, 72 & 73)
	Vegetative Screen/Buffer		Culvert: Fish Pass Pipe (See Cross Section Figures 94, 95, 72 & 73)
	3PPI Study Area Boundary (12/05/2012)		MS Section Cut Lines
	Wetland		20ft Interval Contour
	Wetland/Upland Mosaic		4ft Interval Contour
	Navigable Waters		3PPI Arcs (12/5/2012) (All drainages are unnamed unless labeled on sheet)
	Other Waters		
	Previously Disturbed		

Scale 1:5,000

0 150 300 450 Feet

N

STATE OF ALASKA
 Department of Transportation and Public Facilities

APPLICANT/AGENT: State of Alaska
 2301 Peger Rd. Fairbanks, AK 99709

ROAD TO TANANA PROJECT

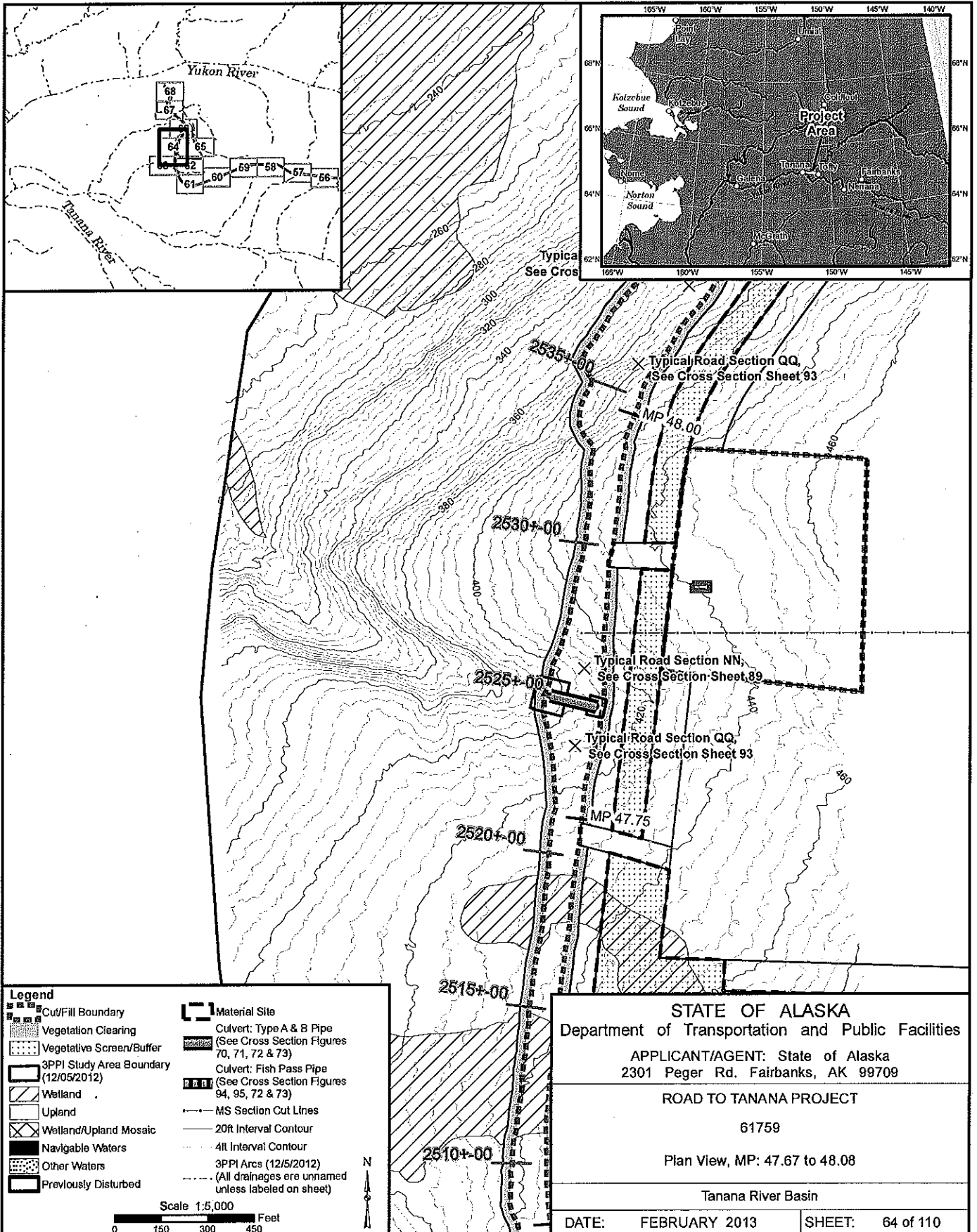
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Plan View, MP: 47.37 to 47.67

Tanana River Basin

DATE: FEBRUARY 2013	SHEET: 63 of 110
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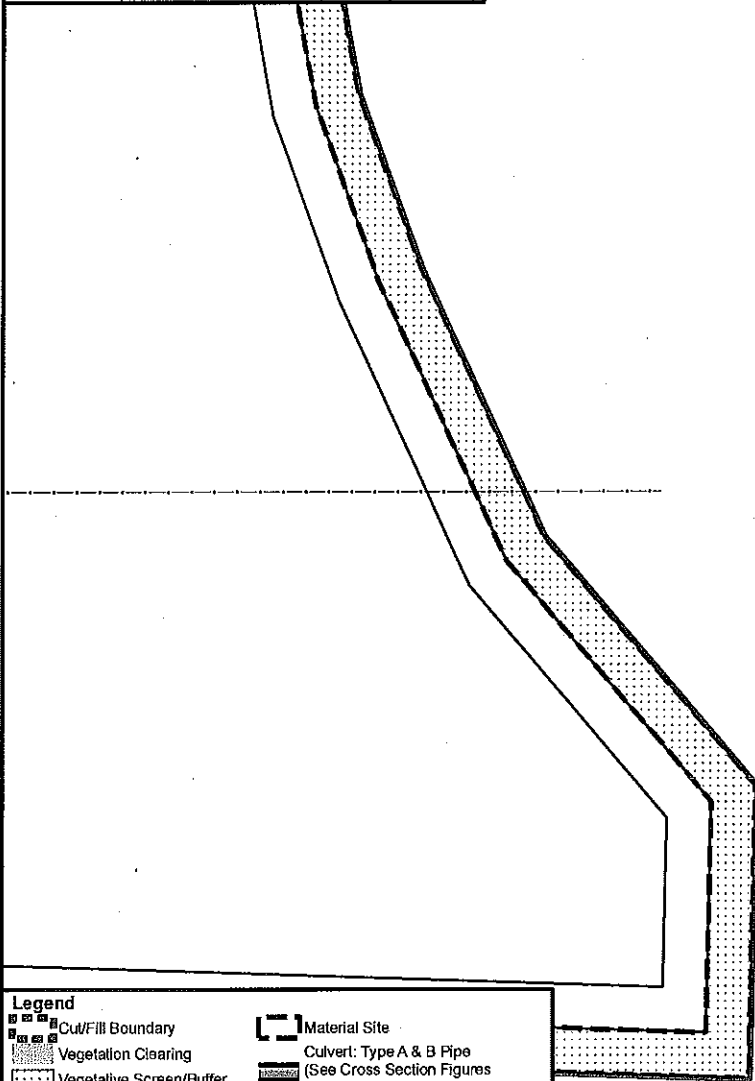
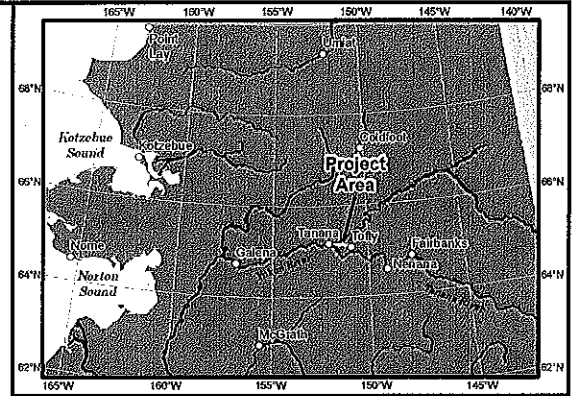
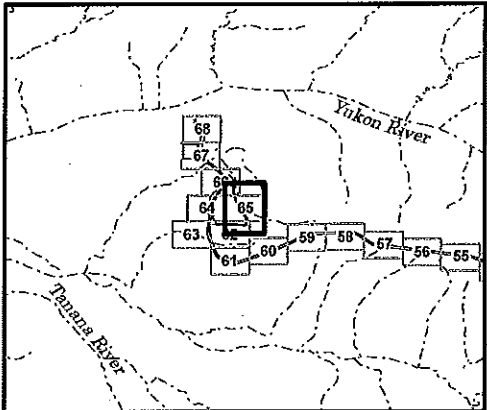
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STATE OF ALASKA Department of Transportation and Public Facilities	
APPLICANT/AGENT: State of Alaska 2301 Peger Rd. Fairbanks, AK 99709	
ROAD TO TANANA PROJECT 61759 Plan View, MP: 47.67 to 48.08 Tanana River Basin	
DATE: FEBRUARY 2013	SHEET: 64 of 110

POA-2013-50, Yukon River



Legend

Cut/Fill Boundary	Material Site
Vegetation Clearing	Culvert: Type A & B Pipe (See Cross Section Figures 70, 71, 72 & 73)
Vegetative Screen/Buffer	Culvert: Fish Pass Pipe (See Cross Section Figures 94, 95, 72 & 73)
3PPI Study Area Boundary (12/05/2012)	— MS Section Cut Lines
Wetland	— 20R Interval Contour
Upland	— 4R Interval Contour
Wetland/Upland Mosaic	— 3PPI Arcs (12/5/2012)
Navigable Waters	- - - (All drainages are unnamed unless labeled on sheet)
Other Waters	
Previously Disturbed	

Scale 1:5,000
0 150 300 450 Feet

N

STATE OF ALASKA
Department of Transportation and Public Facilities

APPLICANT/AGENT: State of Alaska
2301 Peger Rd. Fairbanks, AK 99709

ROAD TO TANANA PROJECT

61759

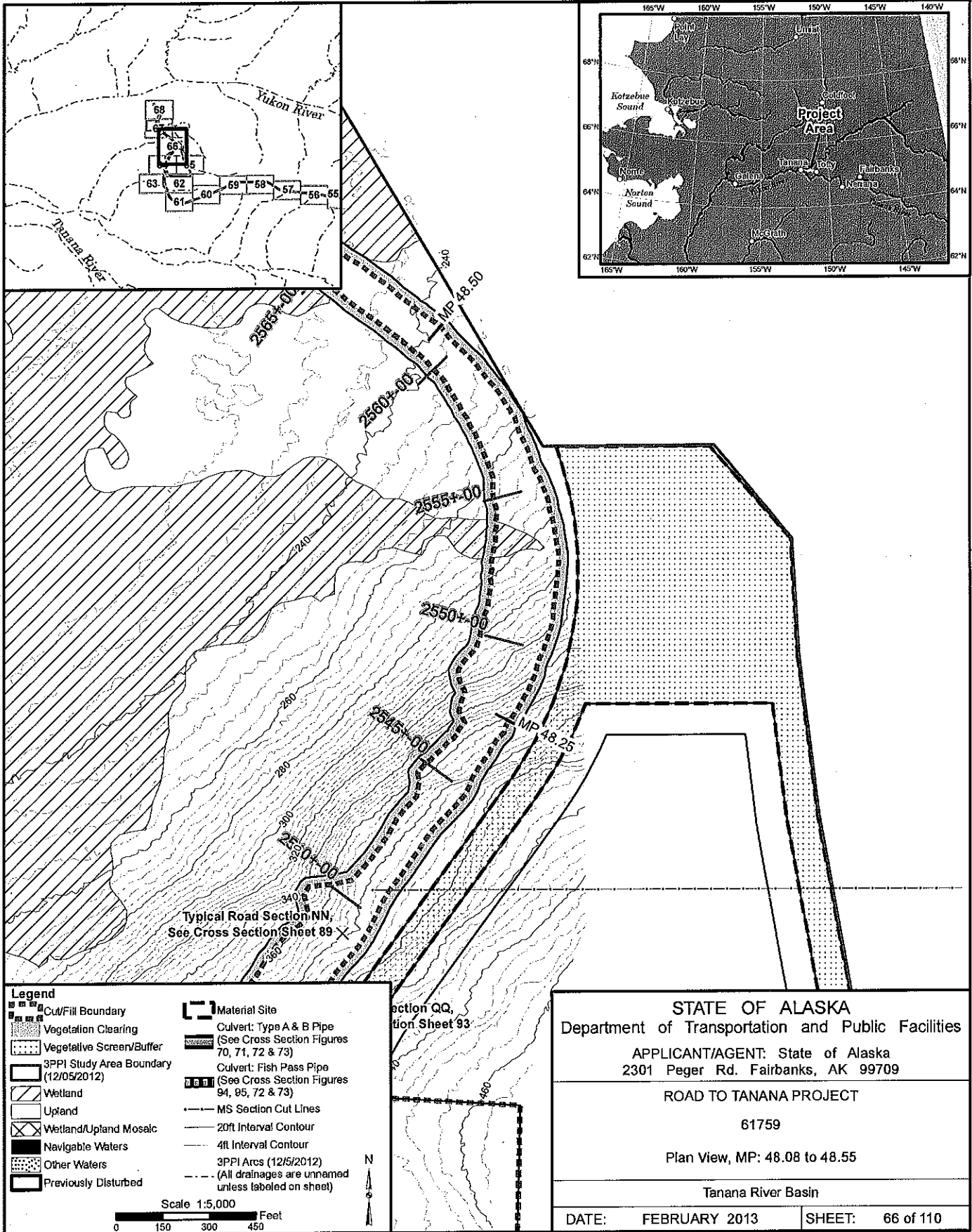
Plan View, MP: n/a

Tanana River Basin

DATE: FEBRUARY 2013	SHEET: 65 of 110
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C:\Projects\280_3PP\Tanana_2012\Wxds_404\RD1_Tanana_404_Corps_5K_8x11_1of66_v01.mxd 02/08/13 01:15 PM

POA-2013-50, Yukon River



C:\projects\280_3PPITanana_404\RD\Tanana_404_Corps_5K_Bx11_1of66_v01.mxd 02/08/13 01:15 PM

Legend

	Cut/Fill Boundary		Material Site
	Vegetation Clearing		Culvert: Type A & B Pipe (See Cross Section Figures 70, 71, 72 & 73)
	Vegetative Screen/Buffer		Culvert: Fish Pass Pipe (See Cross Section Figures 94, 95, 72 & 73)
	3PPI Study Area Boundary (12/05/2012)		MS Section Cut Lines
	Wetland		20ft Interval Contour
	Upland		4ft Interval Contour
	Wetland/Upland Mosaic		3PPI Arcs (12/5/2012)
	Navigable Waters		(All drainages are unnamed unless labeled on sheet)
	Other Waters		
	Previously Disturbed		

Scale 1:5,000
0 150 300 450 Feet

STATE OF ALASKA
Department of Transportation and Public Facilities

APPLICANT/AGENT: State of Alaska
2301 Peger Rd. Fairbanks, AK 99709

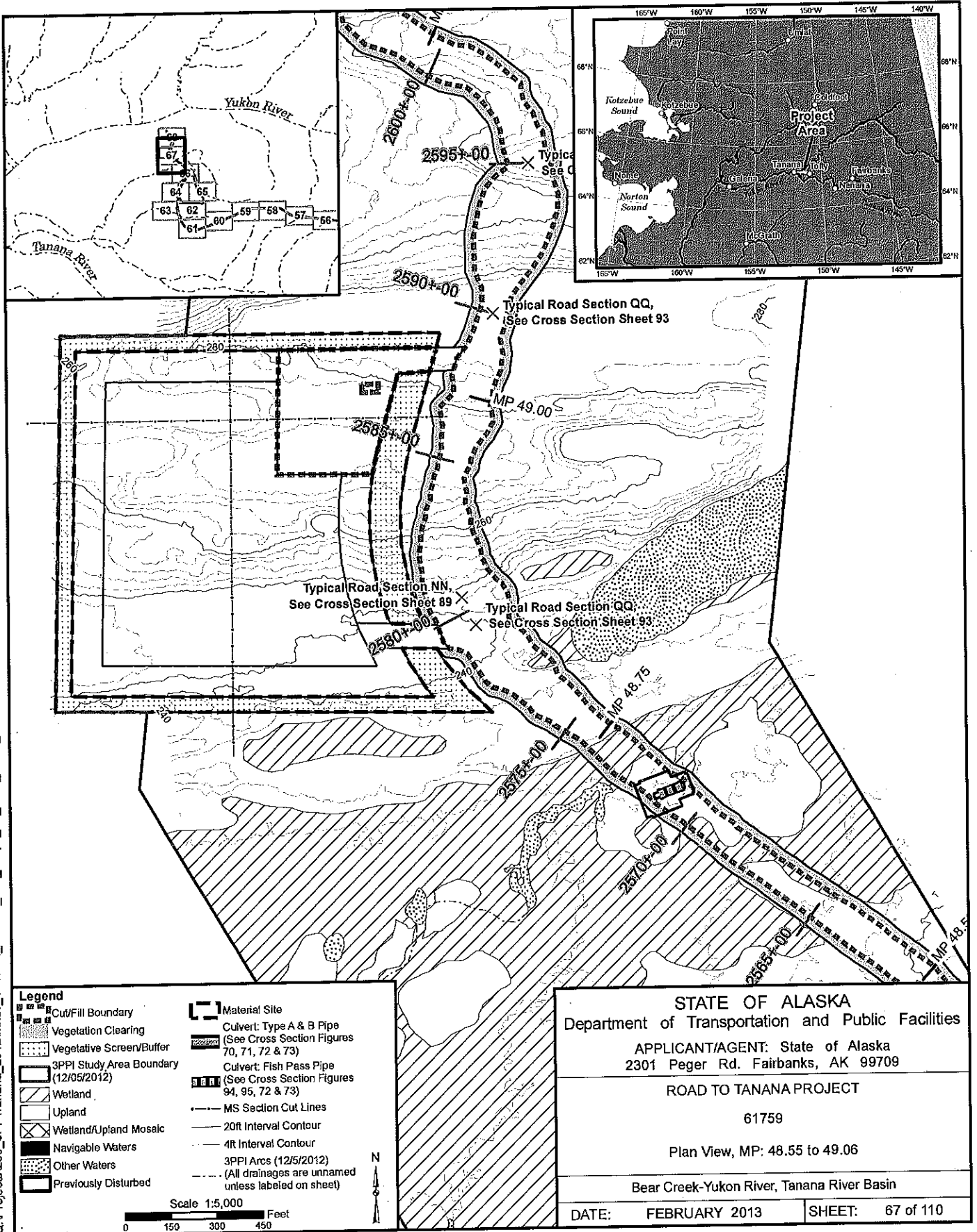
ROAD TO TANANA PROJECT

61759

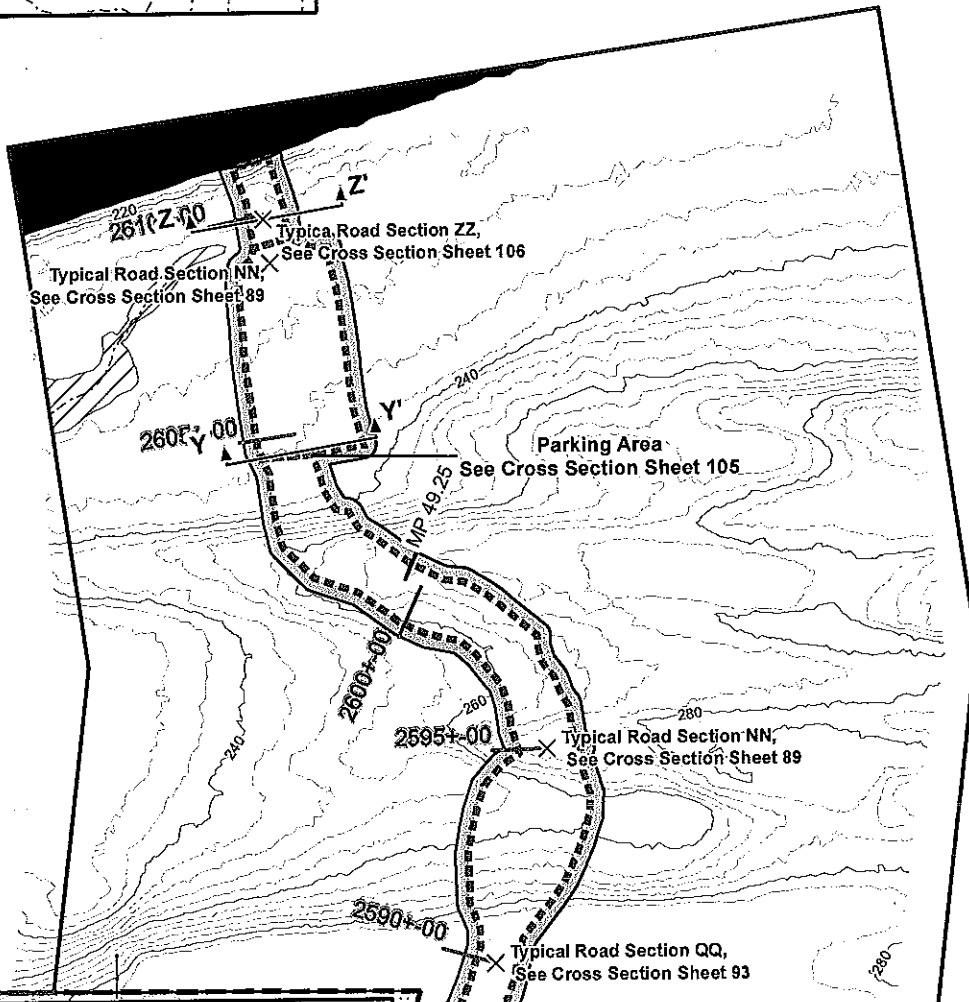
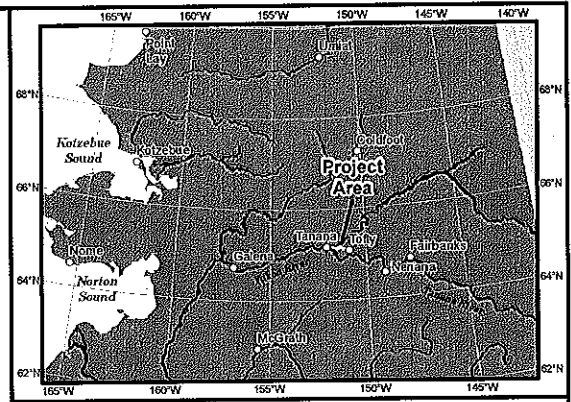
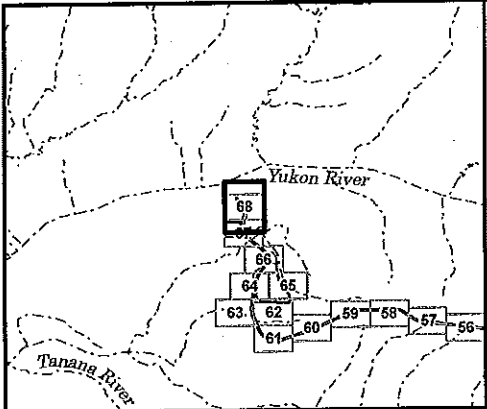
Plan View, MP: 48.08 to 48.55

Tanana River Basin

DATE: FEBRUARY 2013	SHEET: 66 of 110
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Q:\Projects\280_3PPI\Tanana_2012\MapDocs_404\RDJ_Tanana_404_Corps_5K_8x11_1of66_v01.mxd 02/08/13 01:15 PM



Legend

	Cut/Fill Boundary		Material Site
	Vegetation Clearing		Culvert: Type A & B Pipe (See Cross Section Figures 70, 71, 72 & 73)
	Vegetative Screen/Buffer		Culvert: Fish Pass Pipe (See Cross Section Figures 94, 95, 72 & 73)
	3PPI Study Area Boundary (12/05/2012)		MS Section Cut Lines
	Wetland		20R Interval Contour
	Upland		4ft Interval Contour
	Wetland/Upland Mosaic		3PPI Arcs (12/5/2012) (All drainages are unnamed unless labeled on sheet)
	Navigable Waters		
	Other Waters		
	Previously Disturbed		

Scale 1:5,000
0 150 300 450 Feet

STATE OF ALASKA
Department of Transportation and Public Facilities

APPLICANT/AGENT: State of Alaska
2301 Peger Rd. Fairbanks, AK 99709

ROAD TO TANANA PROJECT

61759

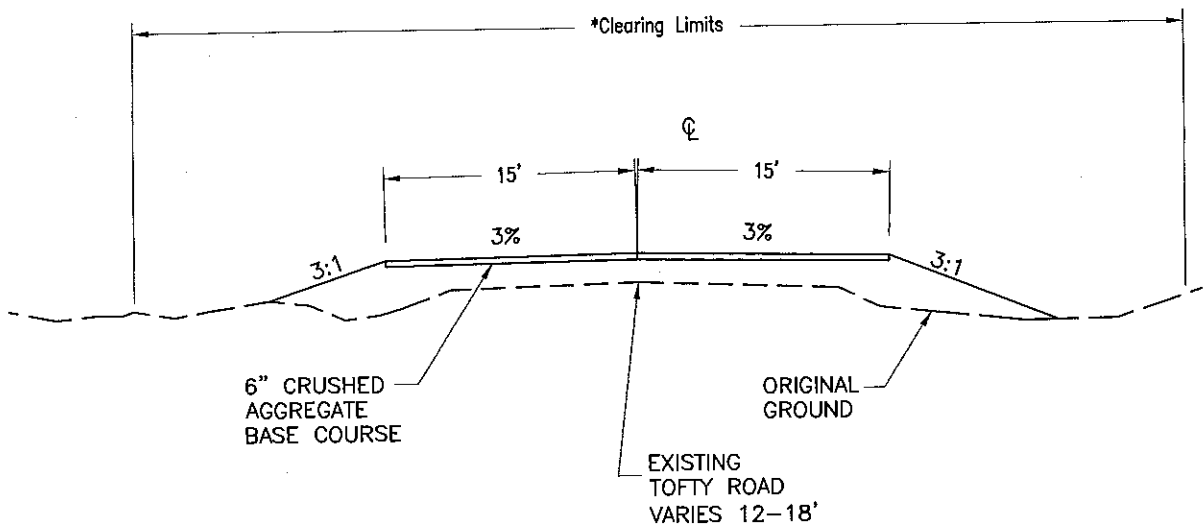
Plan View, MP: 49.06 to 49.45

Bear Creek-Yukon River, Tanana River Basin

DATE: FEBRUARY 2013	SHEET: 68 of 110
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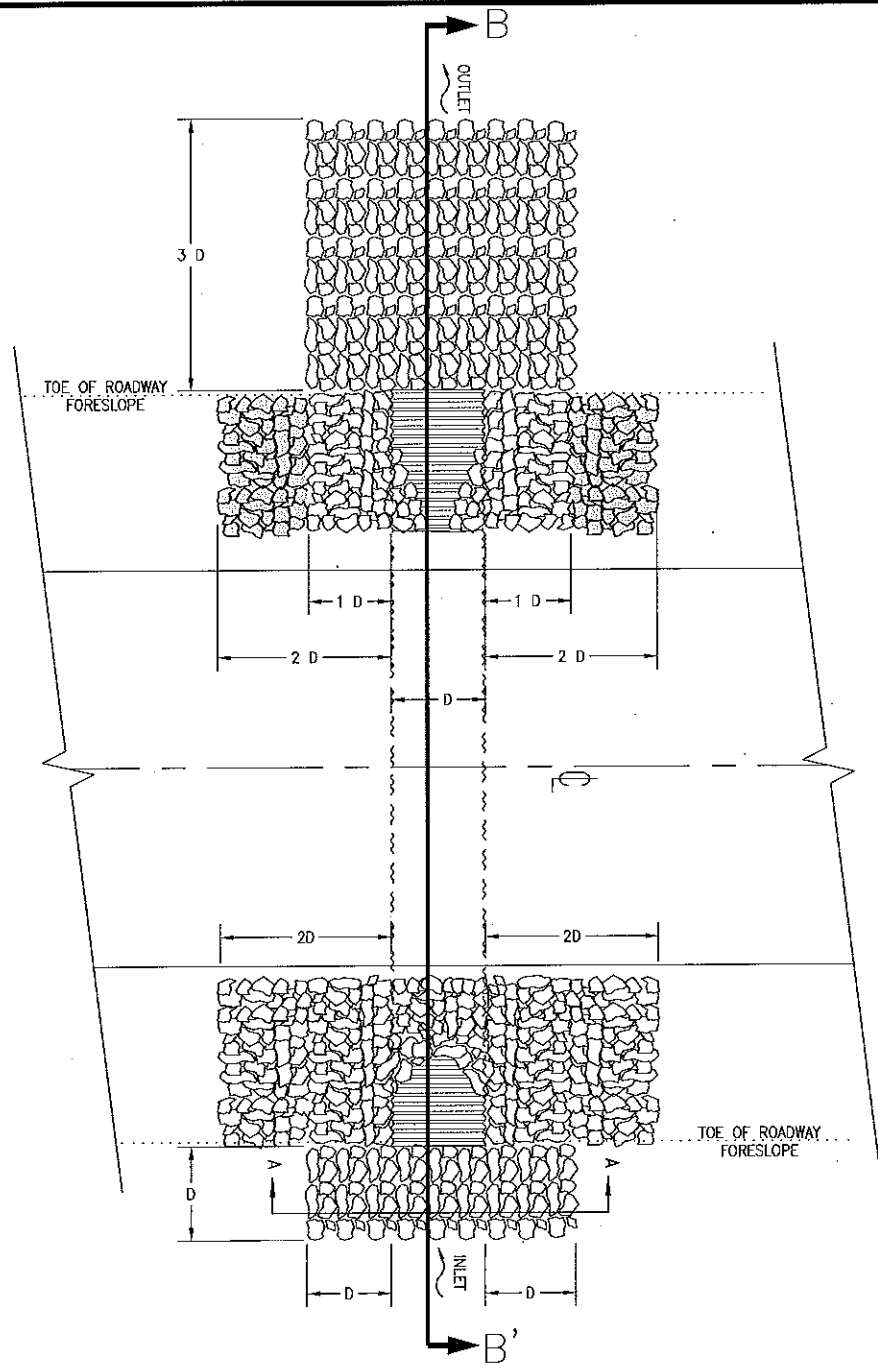
TYPICAL ROAD SECTION
SECTION A-A'
NTS



Notes:
* Clearing limits extend 10' beyond the tow

C:\Industrial Roads Project Files\Tanana Road\04_P&E\DELIVERABLES TO 3PP\Deliverables\Typical-existing road Wed, 19/Dec/12 10:07am

STATE OF ALASKA Department of Transportation and Public Facilities APPLICANT/AGENT: State of Alaska 2301 Peger Rd. Fairbanks, Ak 99709	
ROAD TO TANANA 61759 TYPICAL ROAD SECTION, SECTION A-A'	
DATE: 12/21/2012	SHEET: 69 OF 110

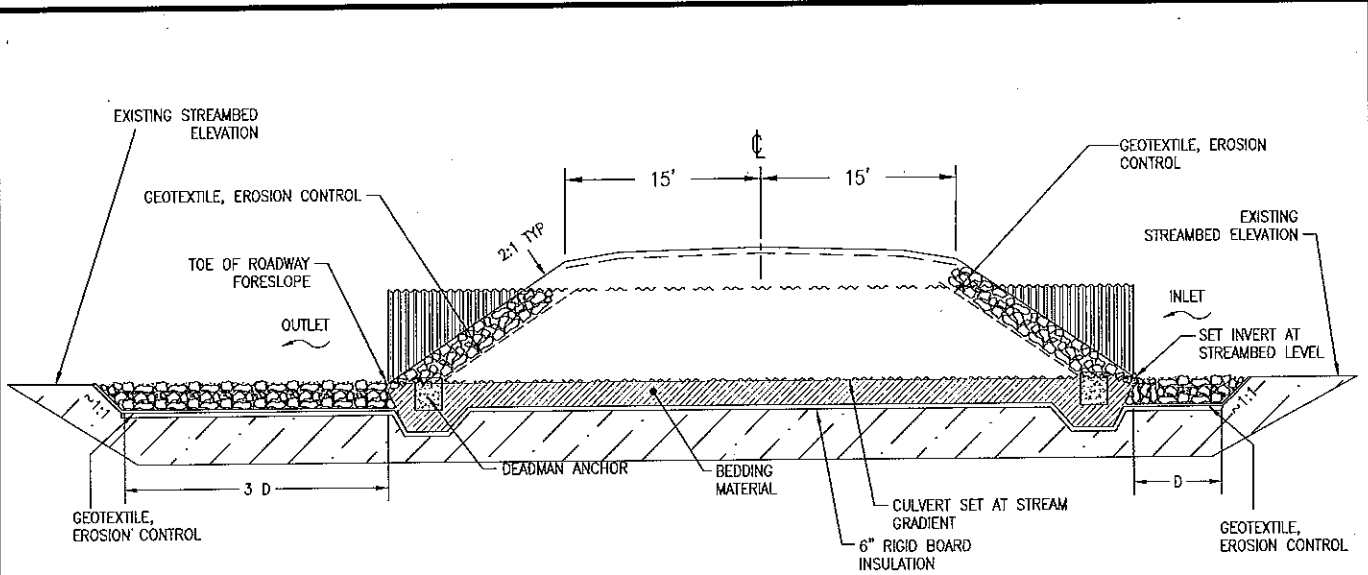


TYPE A & B PIPE PLAN VIEW
NOT TO SCALE

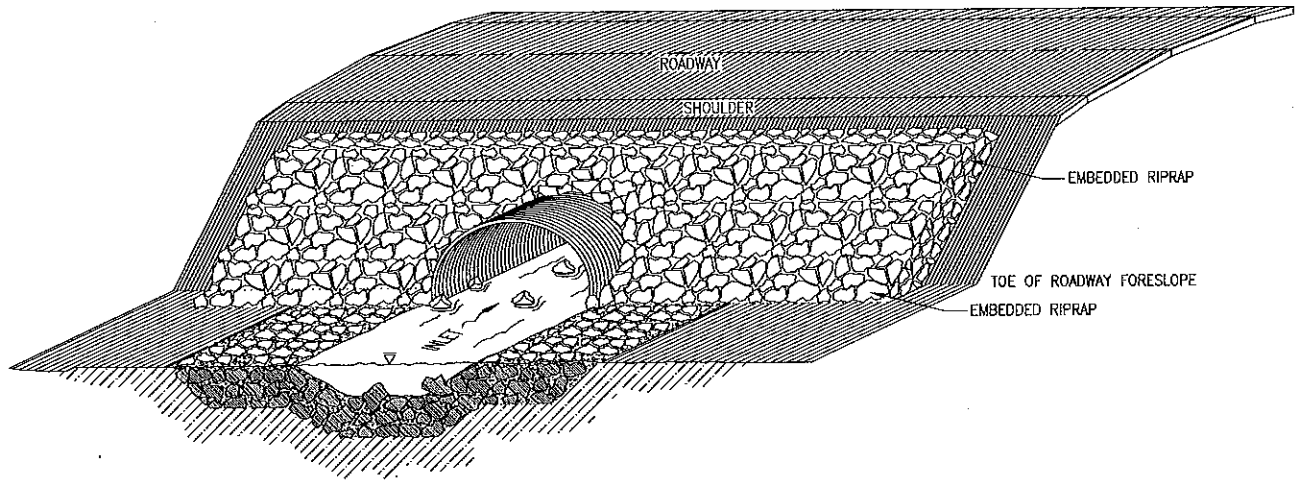
PRELIMINARY

STATE OF ALASKA Department of Transportation and Public Facilities APPLICANT/AGENT: State of Alaska 2301 Peġer Rd. Fairbanks, AK 99709	
ROAD TO TANANA 61759	
TYPE A&B PIPE PLAN VIEW, SECTION B-B'	
DATE: 12/21/2012	SHEET: 70 OF 110

I:\Industrial Roads Project Files\Tanana Road\04_PSA\DELIVERABLES TO JPP\Deliverables\Culverts\CULVERT TYPICALS-Horiz.st2 Tue, 18/Dec/12 04:12pm



TYPE A & B PIPE TYPICAL SECTION
SECTION B-B'
NOT TO SCALE



TYPE A & B PIPE OBLIQUE VIEW
NOT TO SCALE

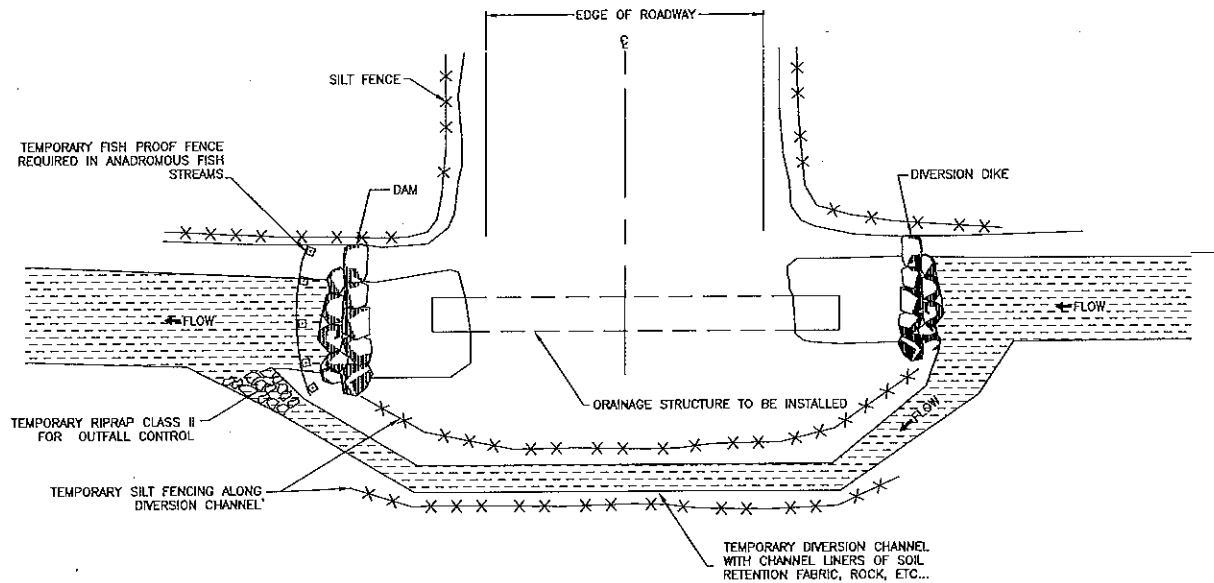
NOTE:

1. EROSION CONTROL STRUCTURES ARE APPROXIMATE AND MAY BE FIELD ADJUSTED BY THE ENGINEER TO TAKE ADVANTAGE OF EXISTING CHANNEL FEATURES. SHAPE INLET AND OUTLET APRONS TO MATCH EXISTING CHANNEL CROSS SECTION.
2. FOR 48" OR SMALLER CULVERT INSTALLATIONS REFER TO ALASKA DOT STANDARD DRAWINGS D-01.02, D-04.21, D-06.10, D-07.00, AND D-09.00.

PRELIMINARY

STATE OF ALASKA Department of Transportation and Public Facilities APPLICANT/AGENT: State of Alaska 2301 Peger Rd. Fairbanks, AK 99709	
ROAD TO TANANA 61759	
TYPE A&B PIPE PLAN & OBLIQUE VIEW, SECTION B-B'	
DATE: 12/21/2012	SHEET: 71 OF 110

T:\Industrial Roads Project Files\tanana Road\04 PS&C\DELIVERABLES TO 3PP\Generables\Culverts\CULVERT TYPICALS-NORTH TIE, 18 Dec 12 04:12pm

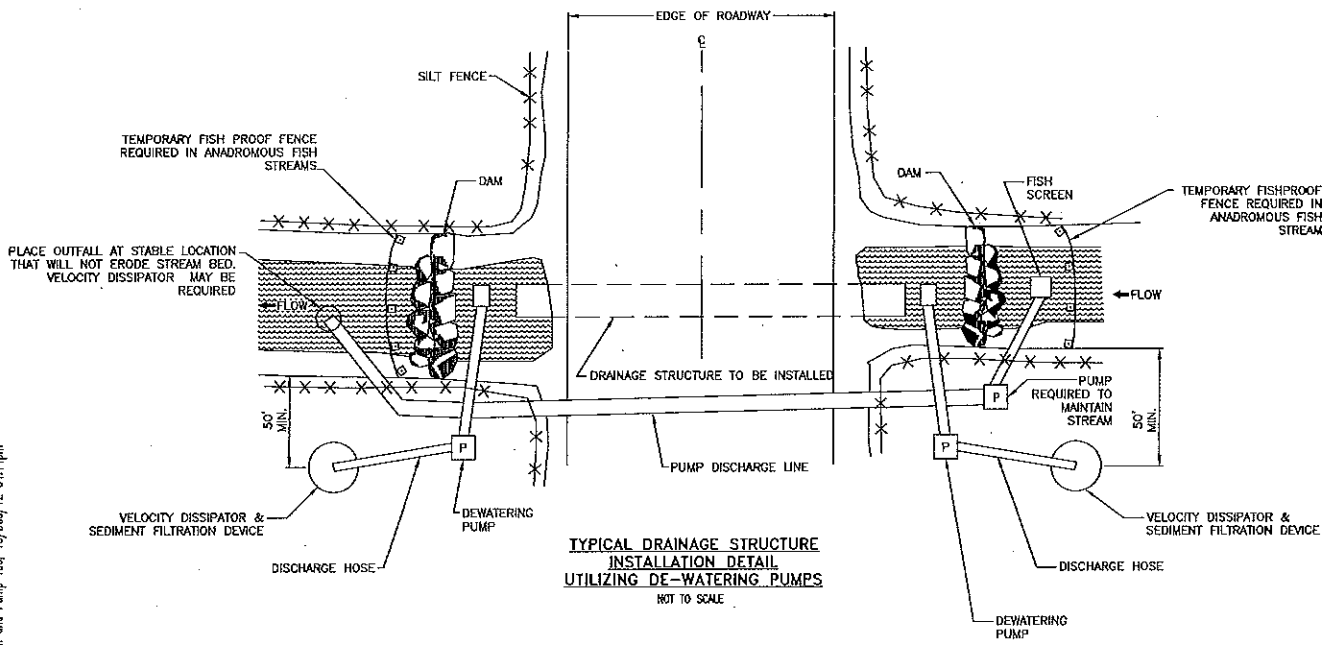


TYPICAL DRAINAGE STRUCTURE
INSTALLATION DETAIL UTILIZING
DIVERSION CHANNEL
NOT TO SCALE

I:\Industrial Roads Project Files\tanana Road\4 PS&E\DELIVERABLES TO 3PP\Deliverables\Currents\CULVERT TYPICALS-Diversion Channel Title 12/Dec/12 04:14pm

PRELIMINARY

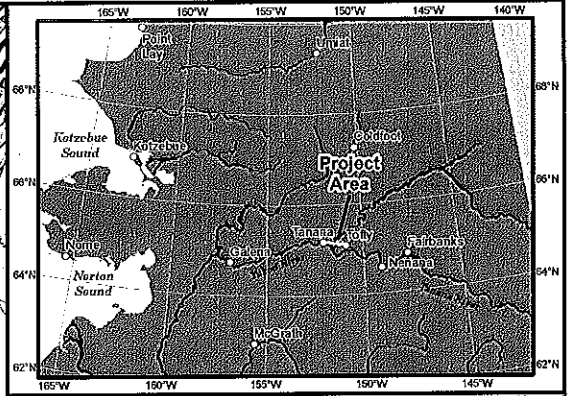
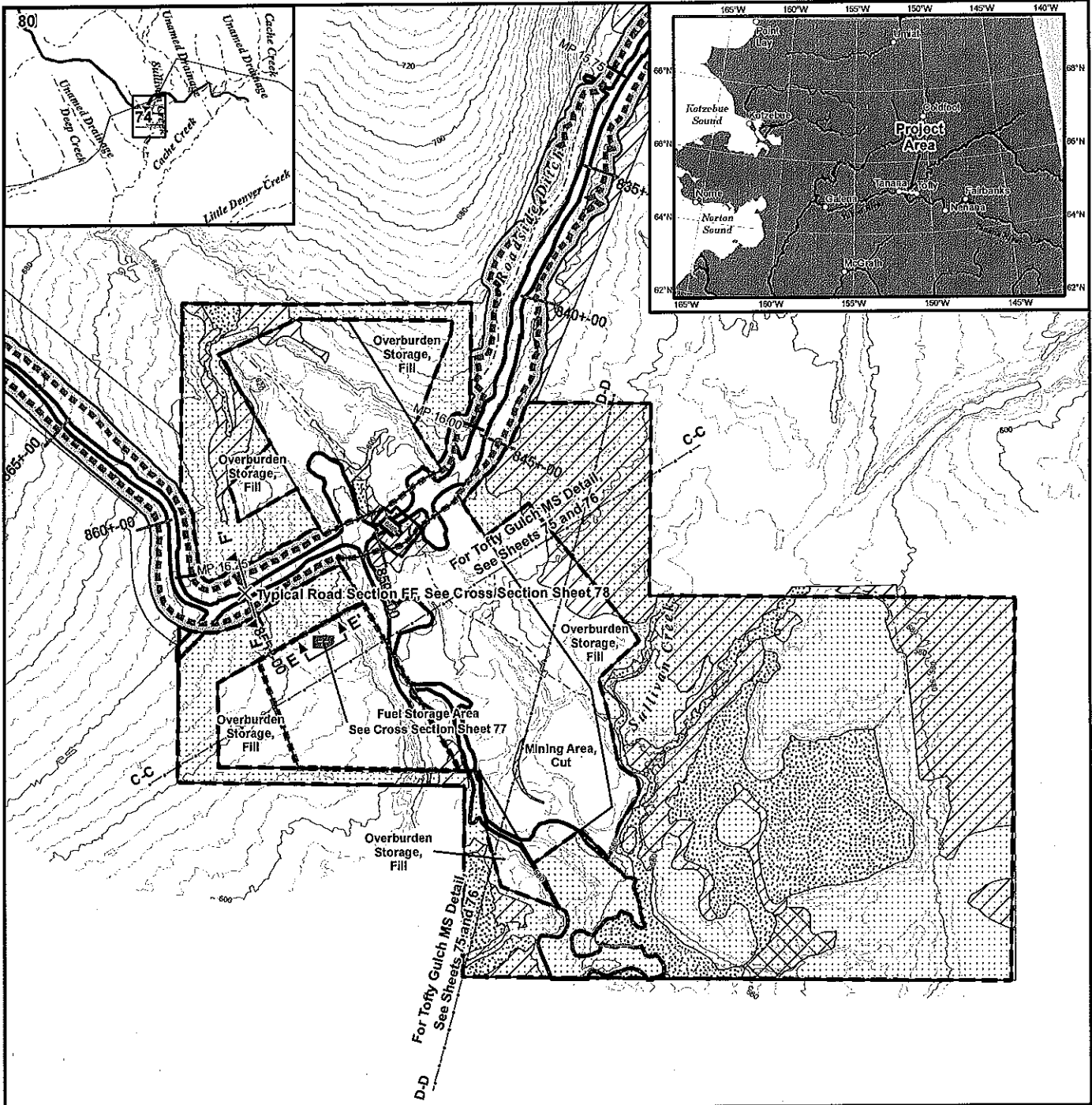
STATE OF ALASKA Department of Transportation and Public Facilities APPLICANT/AGENT: State of Alaska 2301 Peger Rd. Fairbanks, AK 99709	
ROAD TO TANANA 61759	
TYPICAL DRAINAGE STRUCTURE INSTALLATION DETAIL UTILIZING DIVERSION CHANNEL	
DATE: 12/21/2012	SHEET: 72 OF 110



PRELIMINARY

STATE OF ALASKA Department of Transportation and Public Facilities APPLICANT/AGENT: State of Alaska 2301 Peger Rd. Fairbanks, AK 99709	
ROAD TO TANANA 61759 TYPICAL DRAINAGE STRUCTURE INSTALLATION DETAIL UTILIZING DEWATERING PUMPS	
DATE: 12/21/2012	SHEET: 73 OF 110

T:\Industrial Roads\Project Files\Tanana Road\04_P&S\DELIVERABLES TO SPR\Deliverables\Culverts\Culverts-Dam and Pump Tie_18/Dec/12_04.rvt



C:\Projects\280_3PP\Tanana_2012\Mxds_404\RD\Tanana_404_Corps_MS_8x11_1of7_v01.mxd 02/08/13 01:14 PM

Legend

	Cut/Fill Boundary		Culvert: Type A & B Pipe (See Cross Section Figures 70, 71, 72 & 73)
	Vegetation Clearing		Culvert: Fish Pass Pipe (See Cross Section Figures 94, 95, 72 & 73)
	Vegetative Screen/Buffer		Typical Road Section Change
	3PPI Study Area Boundary (12/17/2012)		MS Section Cut Lines
	Material Site		20ft Interval Contour
	Wetland		4ft Interval Contour
	Upland		3PPI Arcs (12/5/2012) (All drainages are unnamed unless labeled on sheet)
	Wetland/Upland Mosaic		
	Navigable Waters		
	Other Waters		
	Previously Disturbed		

Scale 1:6,000

0 350 700 1,050 Feet

N

STATE OF ALASKA
Department of Transportation and Public Facilities

APPLICANT/AGENT: State of Alaska
2301 Peger Rd. Fairbanks, AK 99709

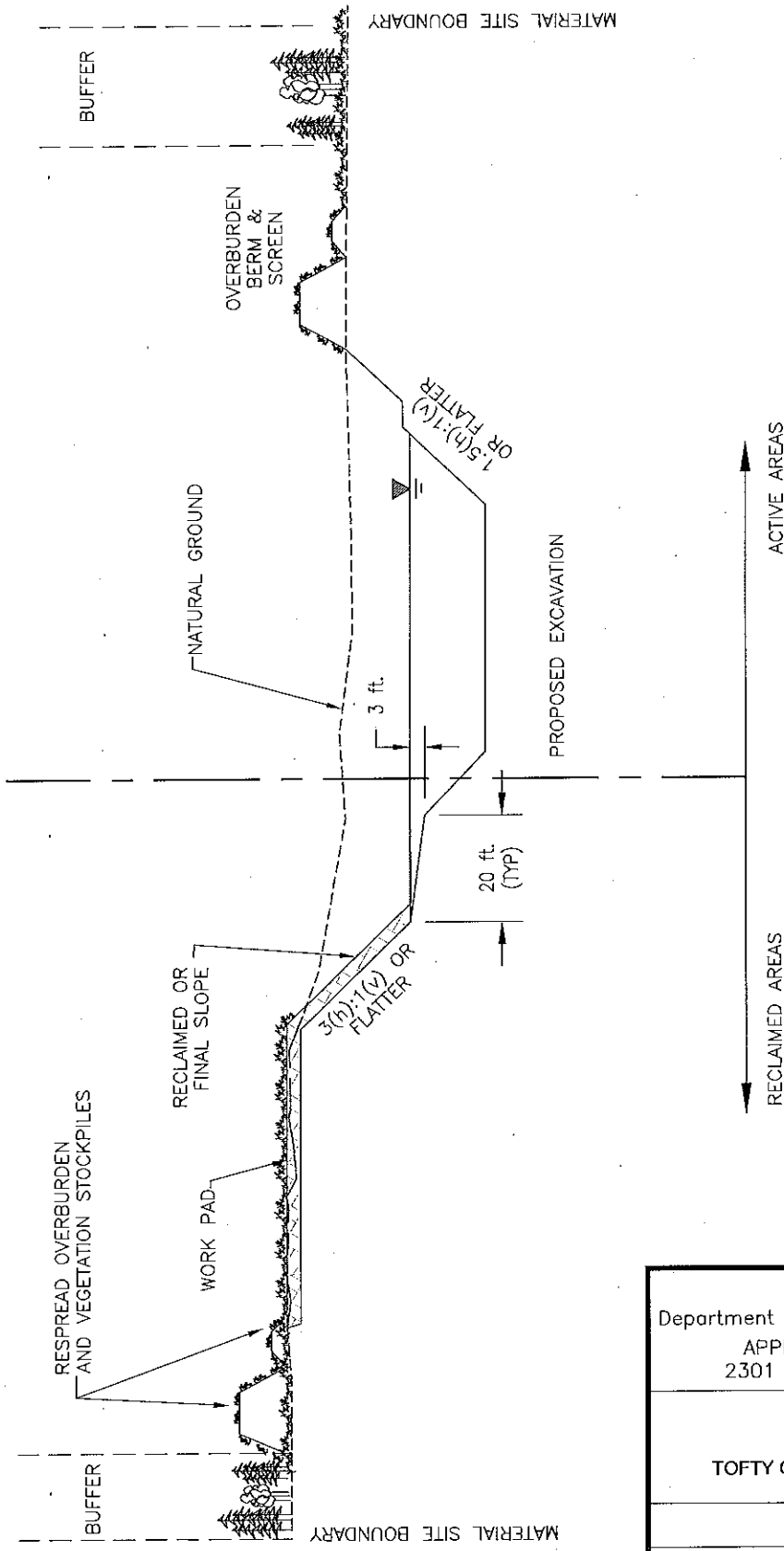
TANANA ROAD PROJECT
61759

Material Site Plan View, MP 15.88 to 16.42
Tofty Gulch Material Site

Patterson Creek Basin

DATE: FEBRUARY 2013 SHEET: 74 of 110

PRELIMINARY

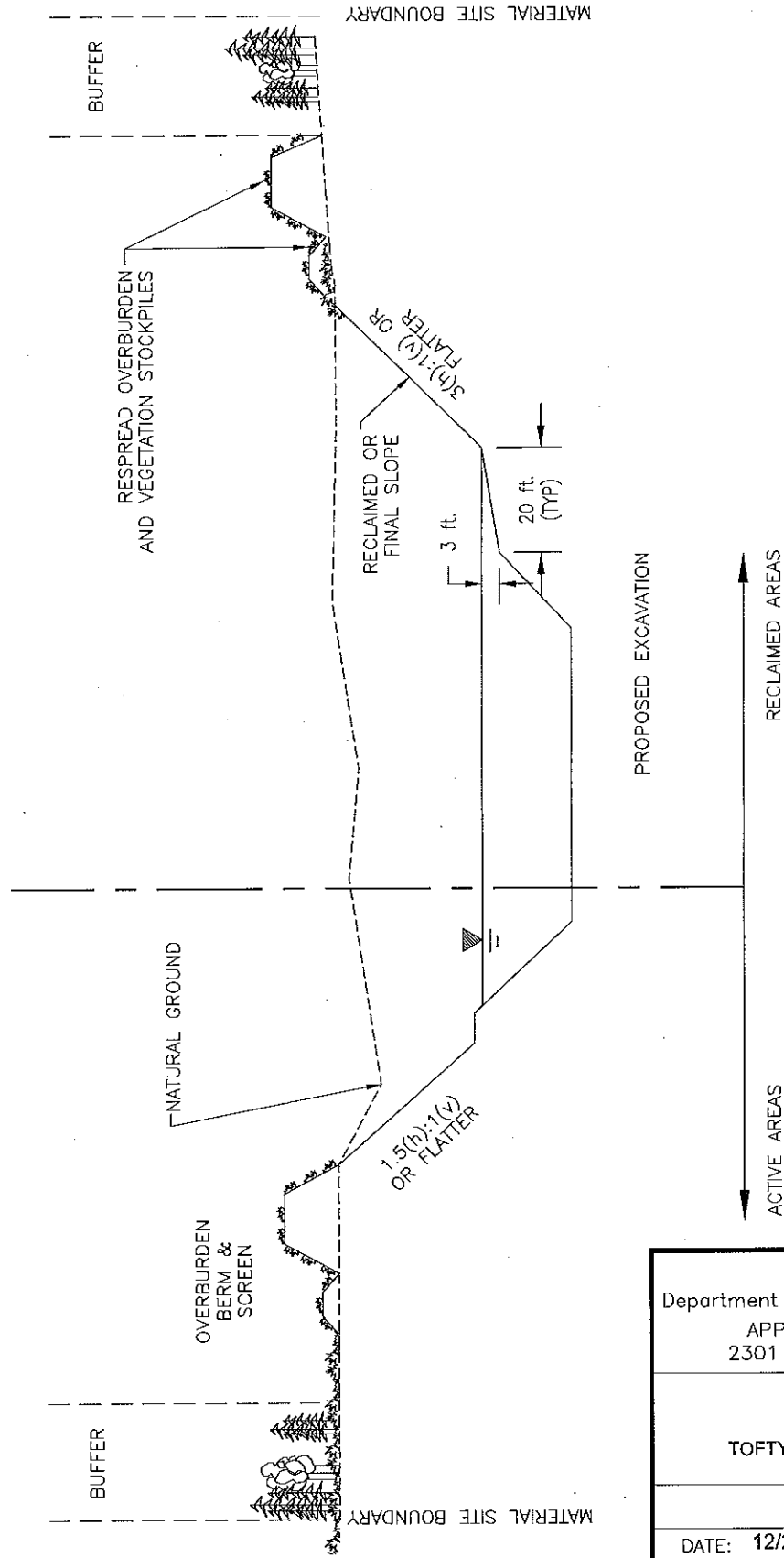


TOFTY GULCH MATERIAL SITE
SECTION C-C'
NOT TO SCALE

STATE OF ALASKA Department of Transportation and Public Facilities APPLICANT/AGENT: State of Alaska 2301 Peger Rd. Fairbanks, AK 99709	
ROAD TO TANANA 61759 TOFTY GULCH MATERIAL SITE SECTION C-C'	
DATE: 12/21/21012	SHEET: 75 OF 110

I:\Industrial Roads Project Files\Tanana Road\04-PS&E\DELIVERABLES TO 3PP\Deliverables\Material Site Permit Drawing-Tofty Section Tue, 19/Dec/12 04:43pm

PRELIMINARY

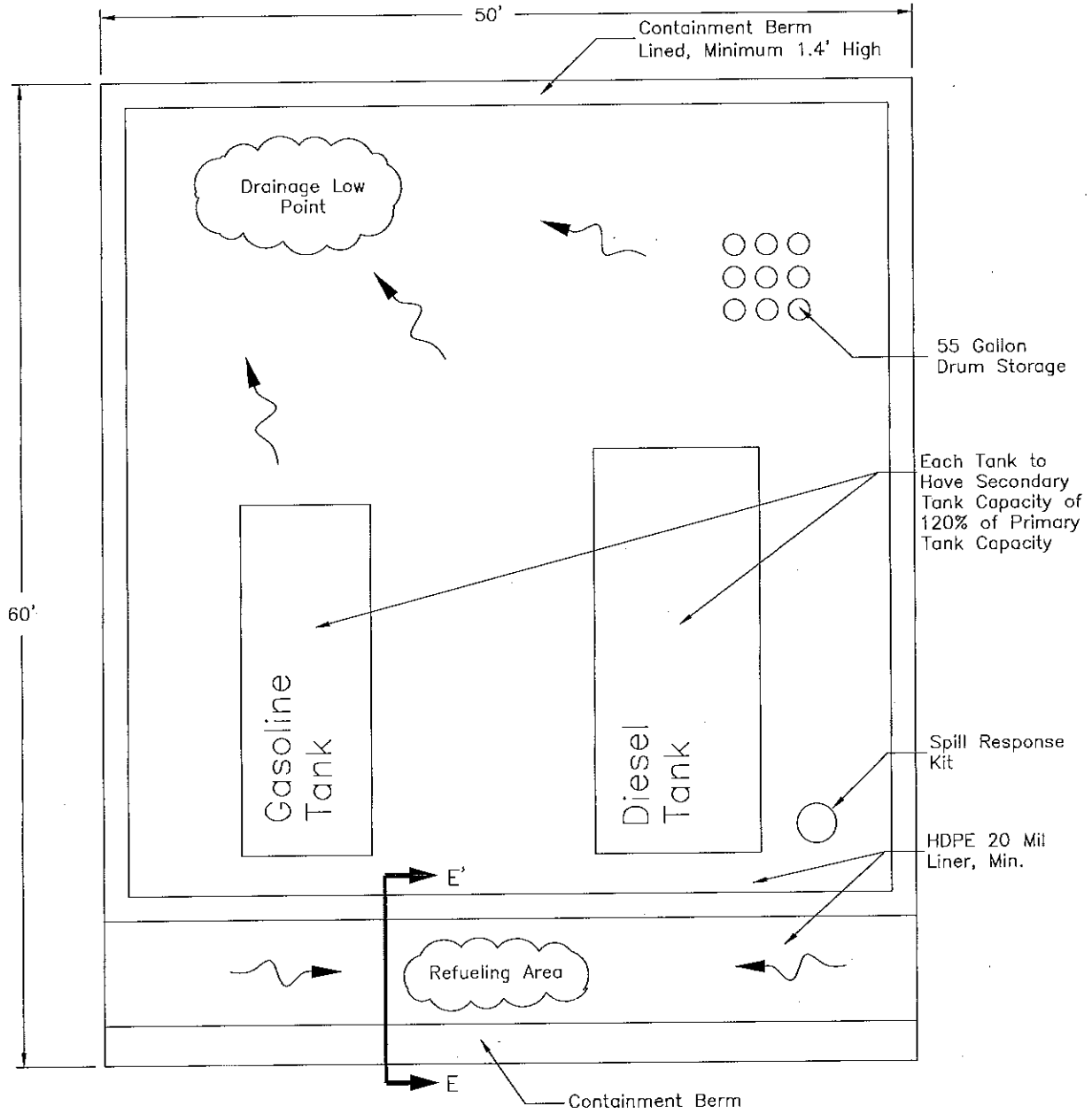


TOFTY GULCH MATERIAL SITE
SECTION D-D
NOT TO SCALE

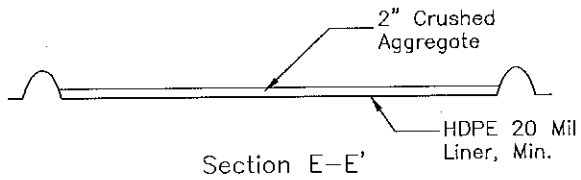
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STATE OF ALASKA Department of Transportation and Public Facilities APPLICANT/AGENT: State of Alaska 2301 Peger Rd. Fairbanks, AK 99709	
ROAD TO TANANA 61759 TOFTY GULCH MATERIAL SITE SECTION D-D	
DATE: 12/21/2012	SHEET: 76 OF 110

PRELIMINARY



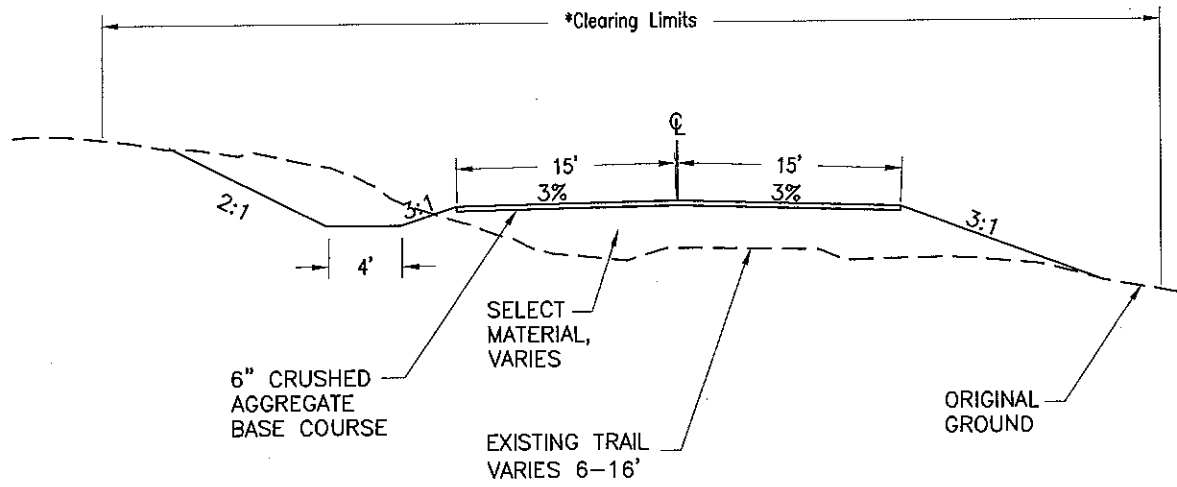
NOTE:
 Fuel storage area to be placed on staging area gravel pad.



STATE OF ALASKA Department of Transportation and Public Facilities APPLICANT/AGENT: State of Alaska 2301 Peger Rd. Fairbanks, AK 99709	
ROAD TO TANANA 61759	
TYPICAL FUEL STORAGE CONTAINMENT, SECTION E-E'	
DATE: 12/21/2012	SHEET: 77 OF 110

T:\Industrial Roads Project Files\Tanana Road\04_PSSA\DELIVERABLES TO 3PR\Fuel Storage Typical-CORPS FUEL CONTAINMENT AREA, Tue, 18/Dec/12, 04:37pm

TYPICAL ROAD SECTION
SECTION F-F'
NTS

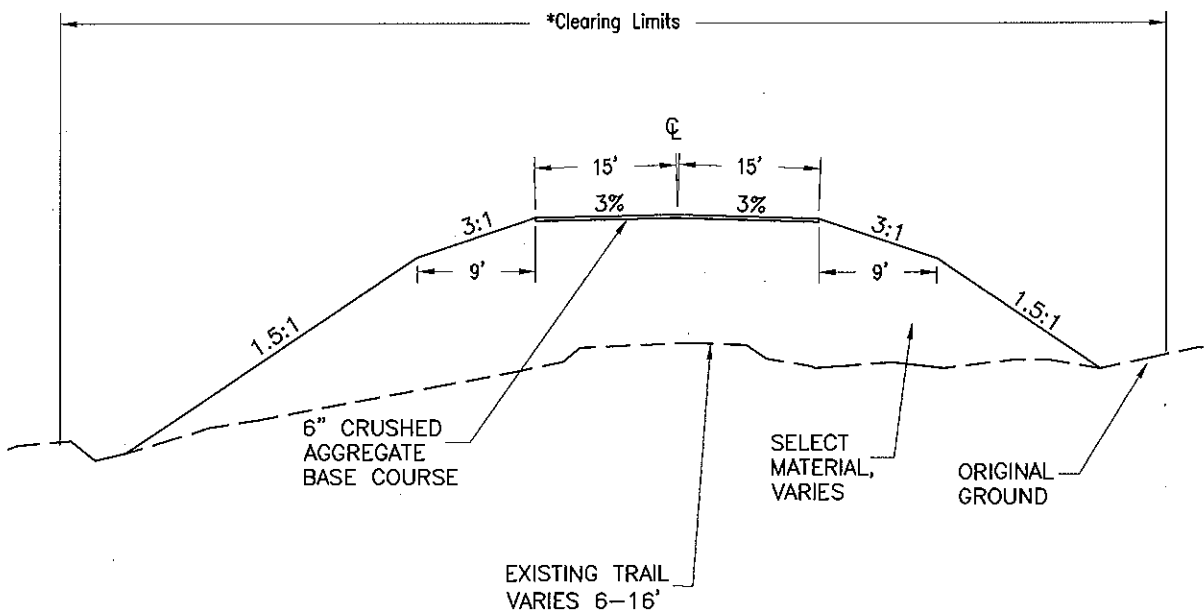


Notes:
* Clearing limits extend 10' beyond the tow

E:\Industrial Roads Project Files\Tanana Road\04_P&E\DELIVERABLES TO 3P\Deliverables\Typical-existing trail Mod. 19/Dec/12 10:08am

STATE OF ALASKA Department of Transportation and Public Facilities APPLICANT/AGENT: State of Alaska 2301 Peger Rd. Fairbanks, Ak 99709	
ROAD TO TANANA 61759 TYPICAL ROAD SECTION, SECTION F-F'	
DATE: 12/21/2012	SHEET: 78 OF 110

TYPICAL ROAD SECTION
SECTION G-G'
NTS

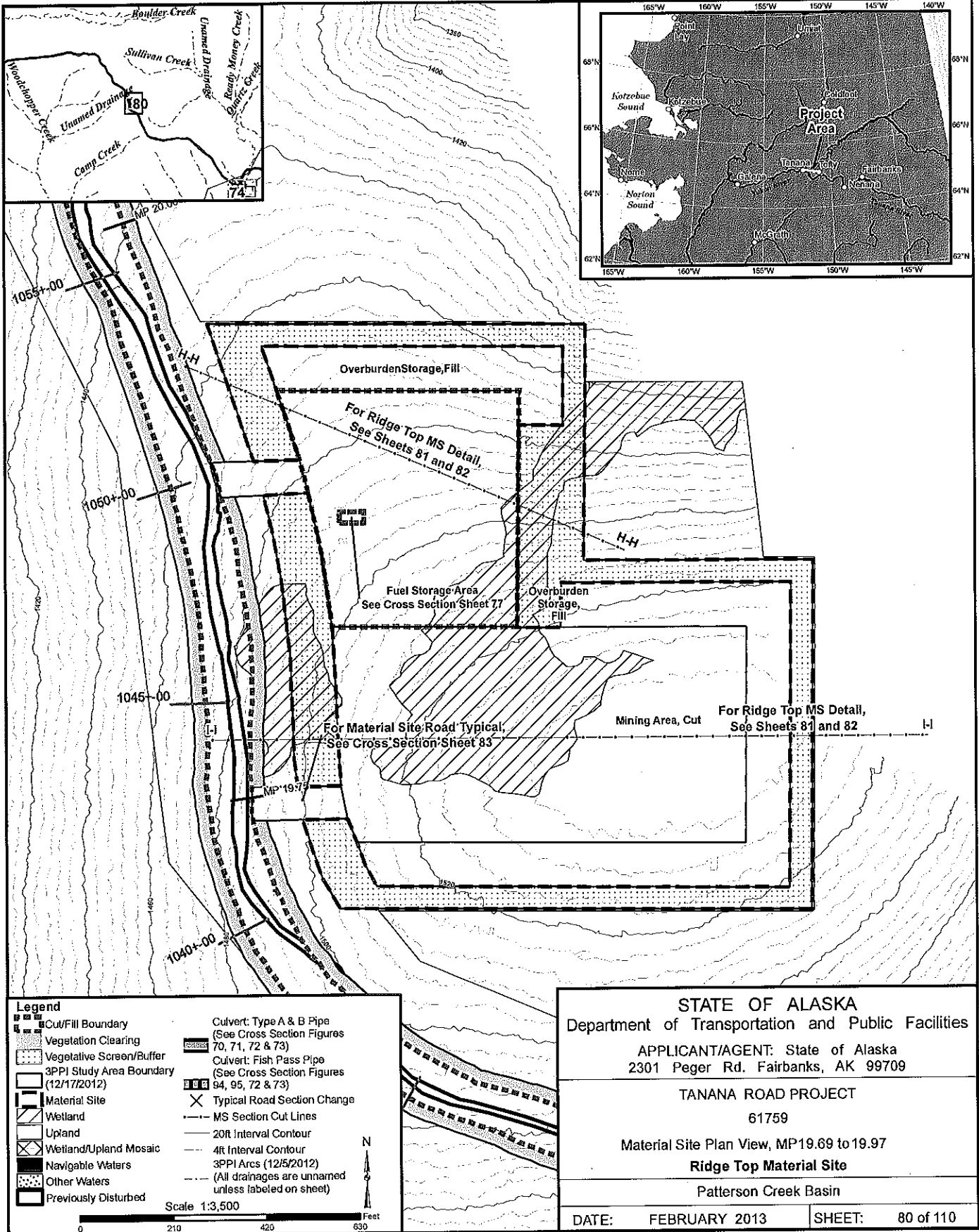


Notes:

- * Clearing limits extend 10' beyond the tow
- Typical Section G-G is typical for fill sections exceeding 10'

STATE OF ALASKA Department of Transportation and Public Facilities APPLICANT/AGENT: State of Alaska 2301 Peger Rd. Fairbanks, Ak 99709	
ROAD TO TANANA 61759 TYPICAL ROAD SECTION, SECTION G-G'	
DATE: 12/21/2012	SHEET: 79 OF 110

I:\Industrial Roads Project Files\Tanana Road\04_P&SE\02\REVIEWS TO APP\Drawings\road-casting\road large.dwg, 19/Dec/12 10:09am



C:\Projects\280_3PP\Tanana_404\RD1_Tanana_404_Corps_MS_8x11_1of7_v01.mxd 02/08/13 01:14 PM

	Cut/Fill Boundary		Culvert: Type A & B Pipe (See Cross Section Figures 70, 71, 72 & 73)
	Vegetation Clearing		Culvert: Fish Pass Pipe (See Cross Section Figures 94, 95, 72 & 73)
	Vegetative Screen/Buffer		Typical Road Section Change
	3PPI Study Area Boundary (12/17/2012)		MS Section Cut Lines
	Material Site		20ft Interval Contour
	Wetland		4ft Interval Contour
	Upland		3PPI Arcs (12/5/2012)
	Wetland/Upland Mosaic		(All drainages are unnamed unless labeled on sheet)
	Navigable Waters		
	Other Waters		
	Previously Disturbed		

Scale 1:3,500

0 210 420 630 Feet

STATE OF ALASKA
 Department of Transportation and Public Facilities

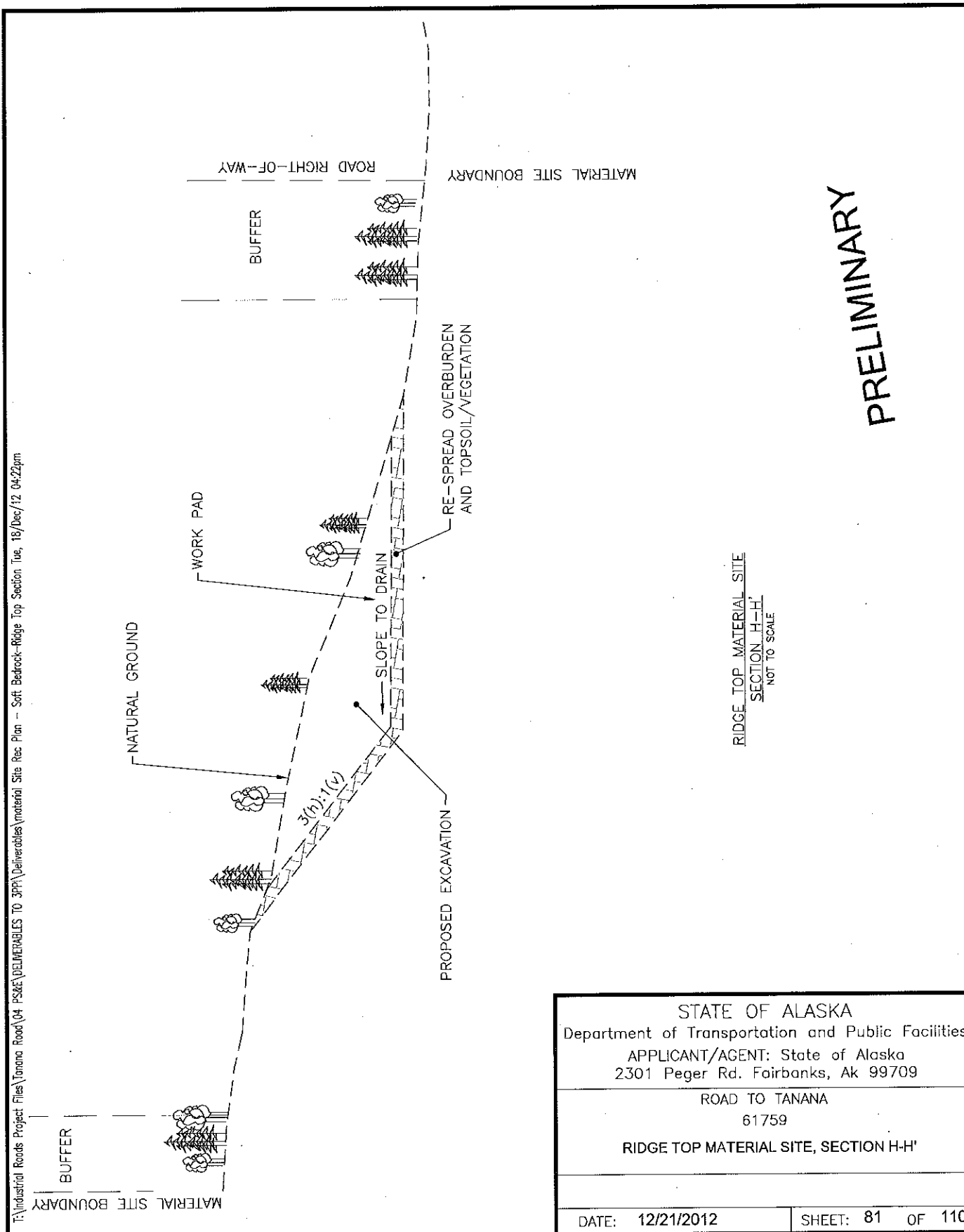
APPLICANT/AGENT: State of Alaska
 2301 Peger Rd. Fairbanks, AK 99709

TANANA ROAD PROJECT
 61759

Material Site Plan View, MP19.69 to 19.97
Ridge Top Material Site

Patterson Creek Basin

DATE: FEBRUARY 2013	SHEET: 80 of 110
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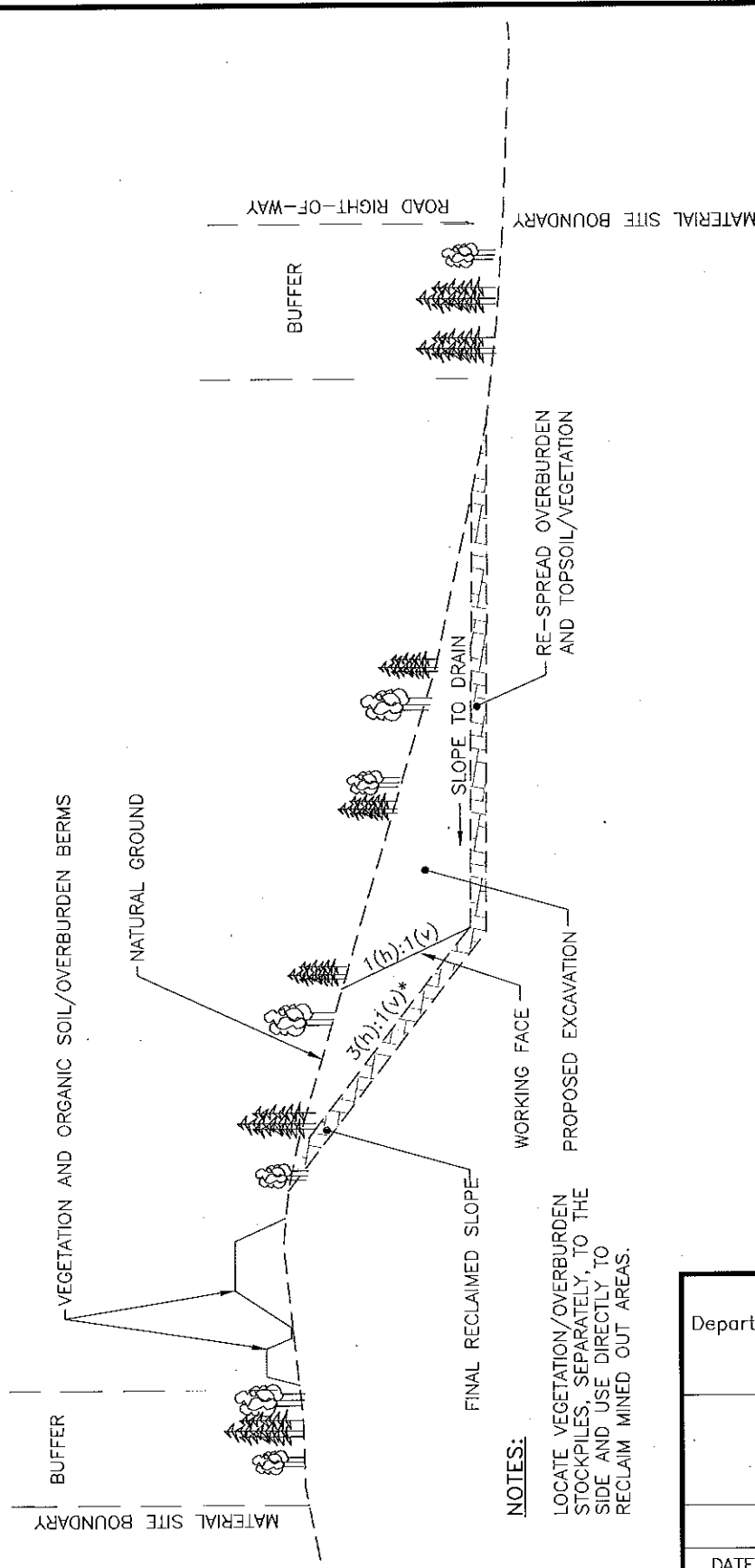
T:\Industrial Roads Project Files\Tanana Road\04 PS&E\DELIVERABLES TO 3PP\Deliverables\material Site Rec Plan - Sort Bedrock-Ridge Top Section Tue, 18/Dec/12 04:22pm

PRELIMINARY

RIDGE TOP MATERIAL SITE
SECTION H-H'
NOT TO SCALE

STATE OF ALASKA Department of Transportation and Public Facilities APPLICANT/AGENT: State of Alaska 2301 Peger Rd. Fairbanks, Ak 99709	
ROAD TO TANANA 61759 RIDGE TOP MATERIAL SITE, SECTION H-H'	
DATE: 12/21/2012	SHEET: 81 OF 110

T:\Industrial Roads Project Files\Tanana Road\04 PS&E\DELIVERABLES TO 3PP\Deliverables\material Site Rec Plan - Soft Backrock-Ridge Top Section (2). Tue, 18/Dec/12 04:22pm



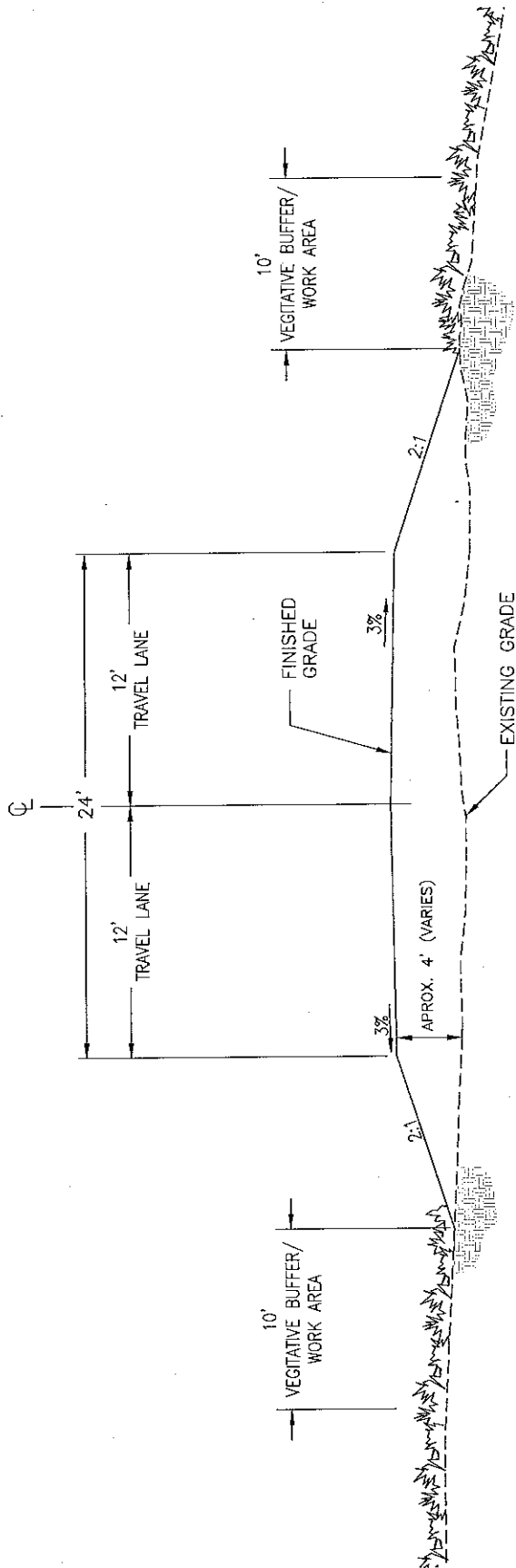
NOTES:

LOCATE VEGETATION/OVERBURDEN STOCKPILES, SEPARATELY, TO THE SIDE AND USE DIRECTLY TO RECLAIM MINED OUT AREAS.

RIDGE TOP MATERIAL SITE
SECTION I-I'
NOT TO SCALE

PRELIMINARY

STATE OF ALASKA Department of Transportation and Public Facilities APPLICANT/AGENT: State of Alaska 2301 Peger Rd. Fairbanks, Ak 99709	
ROAD TO TANANA 61759 RIDGE TOP MATERIAL SITE, SECTION I-I'	
DATE:	12/21/2012
SHEET:	82 OF 110



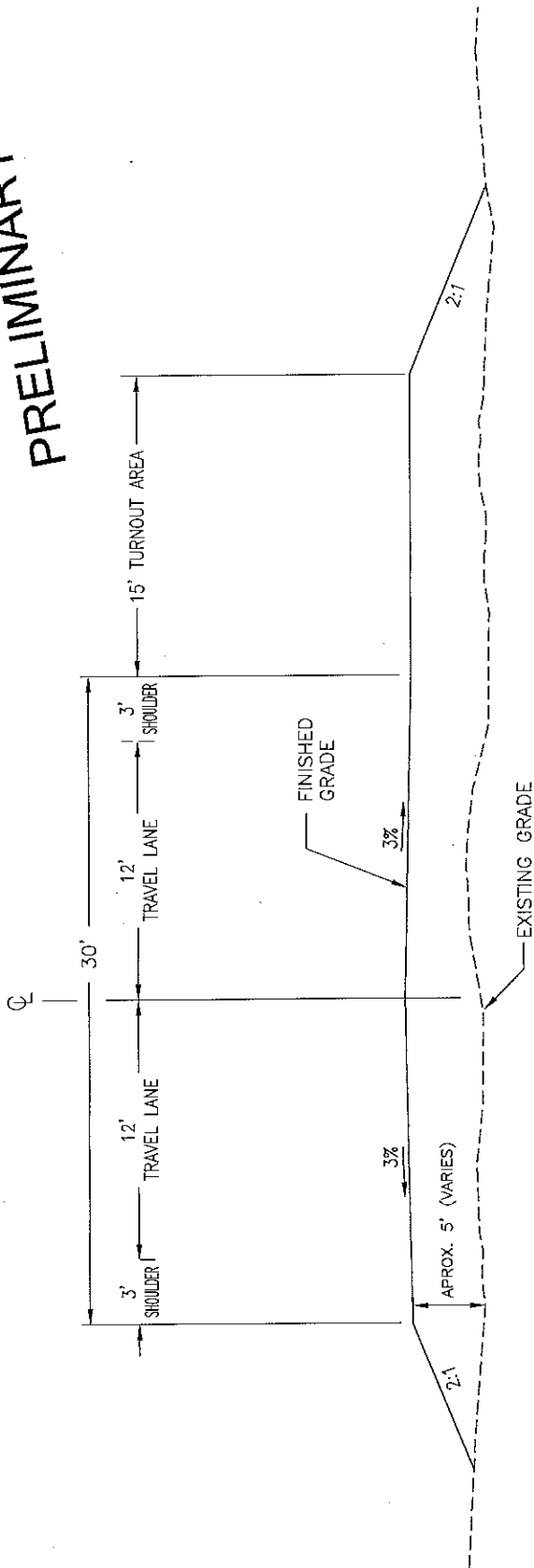
TYPICAL SECTION
SECTION J-J'
NOT TO SCALE

PRELIMINARY

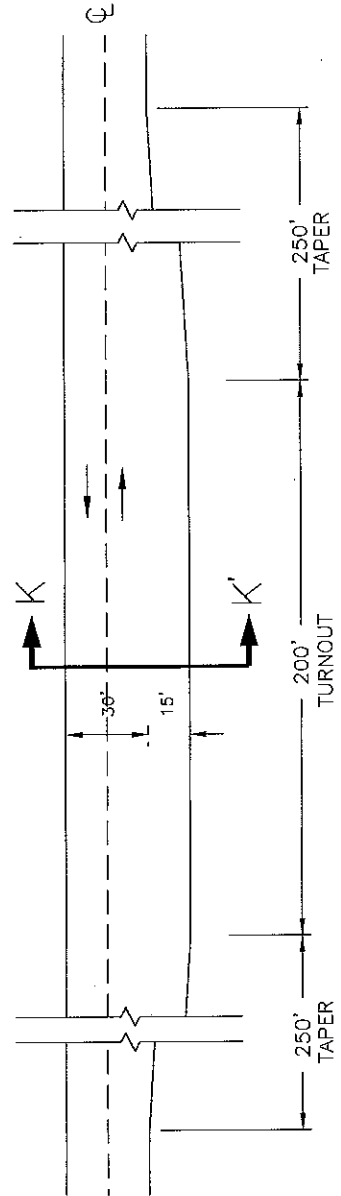
T:\Industrial Roads Project Files\tanana Road\04_P&E\DELIVERABLES TO 3PP\Material Site Road Typical-Typical Tus_18/Dec/12_04:38pm

STATE OF ALASKA Department of Transportation and Public Facilities APPLICANT/AGENT: State of Alaska 2301 Peger Rd. Fairbanks, AK 99709	
ROAD TO TANANA 61759	
MATERIAL SITE ROAD TYPICAL, SECTION J-J'	
DATE: 12/21/2012	SHEET: 83 OF 110

PRELIMINARY



TYPICAL SECTION
SECTION K-K'
NTS



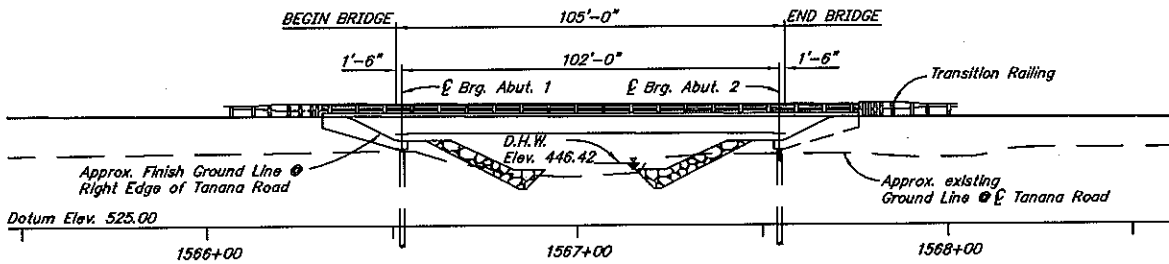
PLAN
NTS

STATE OF ALASKA Department of Transportation and Public Facilities APPLICANT/AGENT: State of Alaska 2301 Peger Rd. Fairbanks, AK 99709	
ROAD TO TANANA 61759 TYPICAL ROAD TURNOUT, SECTION K-K'	
DATE: 12/21/2012	SHEET: 84 OF 110

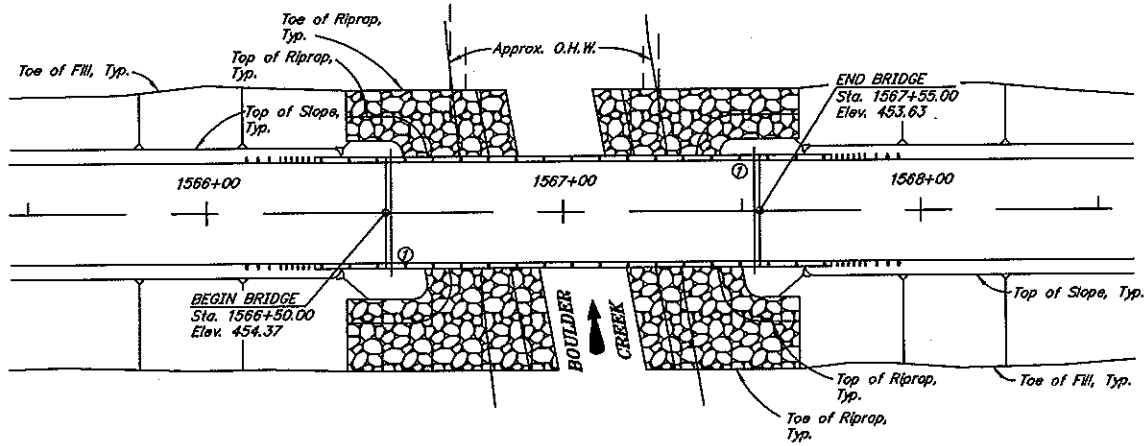
F:\Industrial_Roads Project_Files\Tanana Road\04_P&E\02\DWG\FILES TO 3P\04\Drawables\Turnout_Typical-Turnout Mod_19/Dec/12 10:17am

PRELIMINARY

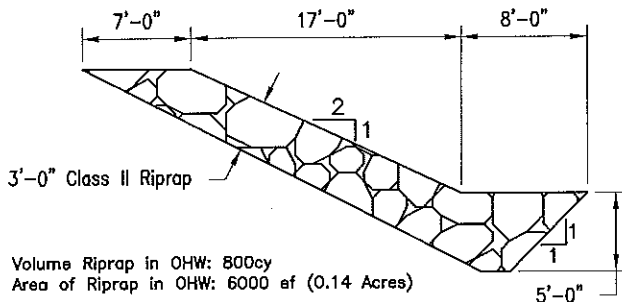
BOULDER CREEK BRIDGE PROFILE VIEW
NTS



BOULDER CREEK BRIDGE PLAN VIEW
NTS

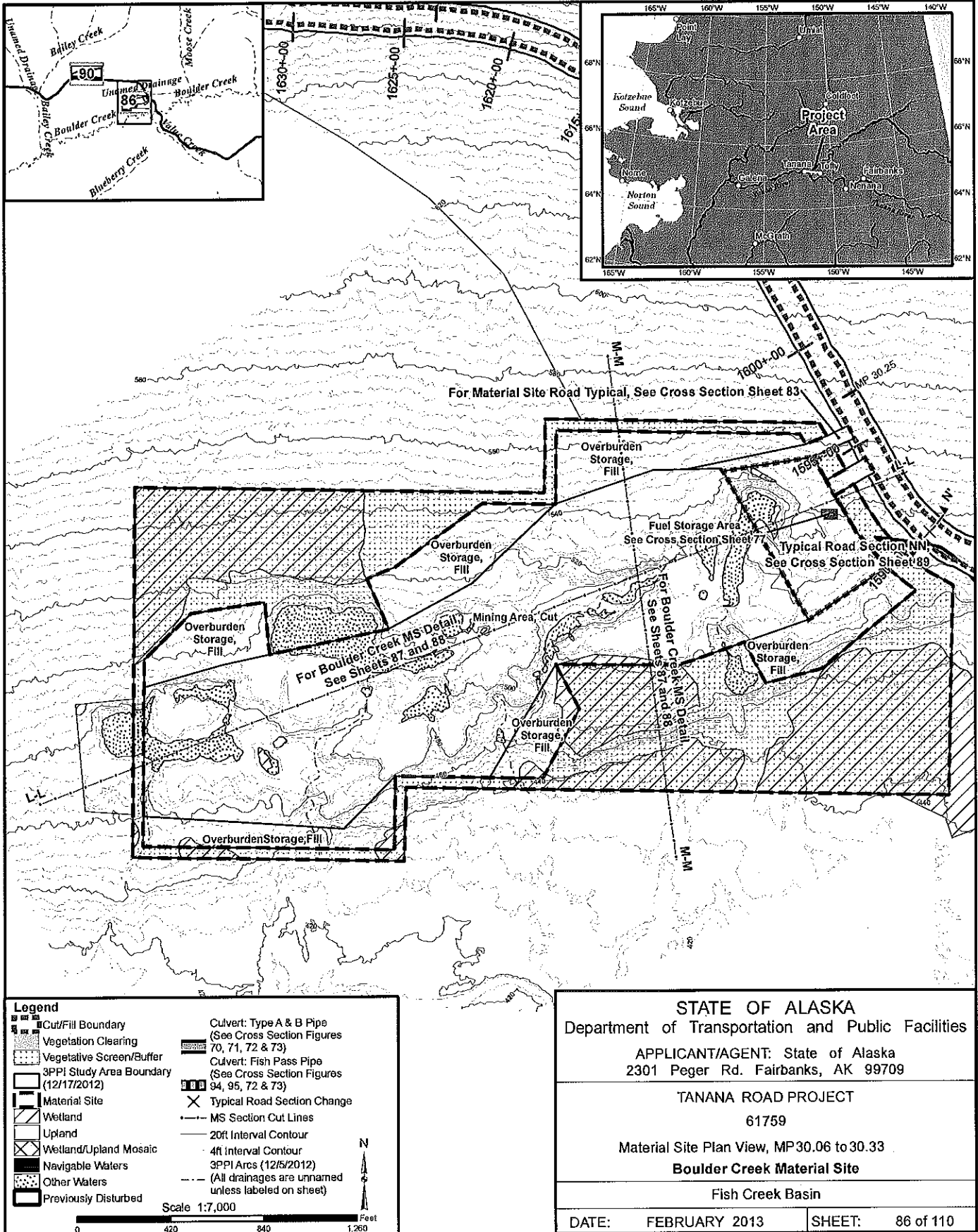


RIPRAP SECTION DETAIL
NTS



STATE OF ALASKA Department of Transportation and Public Facilities APPLICANT/AGENT: State of Alaska 2301 Peger Rd. Fairbanks, Ak 99709	
ROAD TO TANANA 61759 BOULDER CREEK BRIDGE PLAN AND PROFILE	
DATE: 12/21/2012	SHEET: 85 OF 110

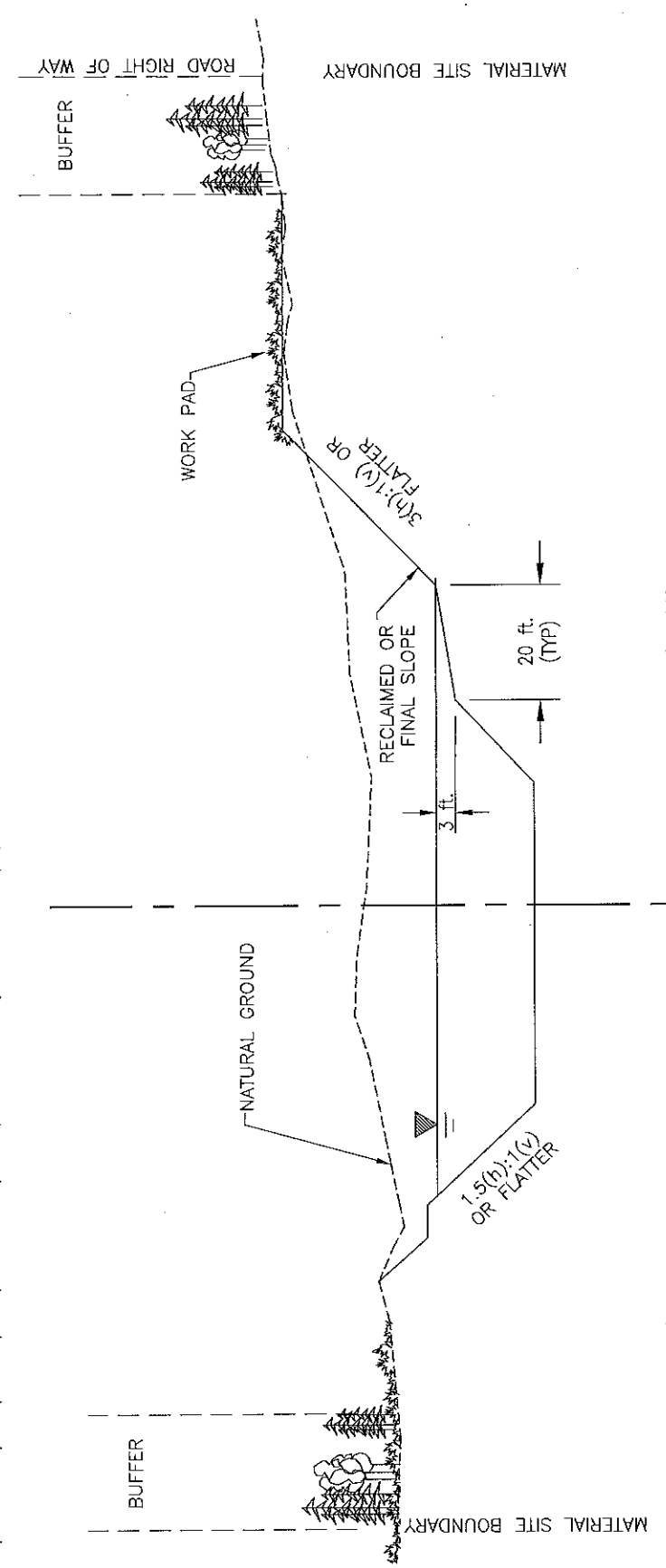
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Q:\Projects\280_3PPI\Tanana_2012\Xmxds_404\RD\Tanana_404_Corps_MS_8x11_1077_v01.mxd 02/08/13 01:14 PM

<p>STATE OF ALASKA Department of Transportation and Public Facilities</p>	
<p>APPLICANT/AGENT: State of Alaska 2301 Peger Rd. Fairbanks, AK 99709</p>	
<p>TANANA ROAD PROJECT 61759</p>	
<p>Material Site Plan View, MP30.06 to 30.33 Boulder Creek Material Site</p>	
<p>Fish Creek Basin</p>	
DATE: FEBRUARY 2013	SHEET: 86 of 110

PRELIMINARY

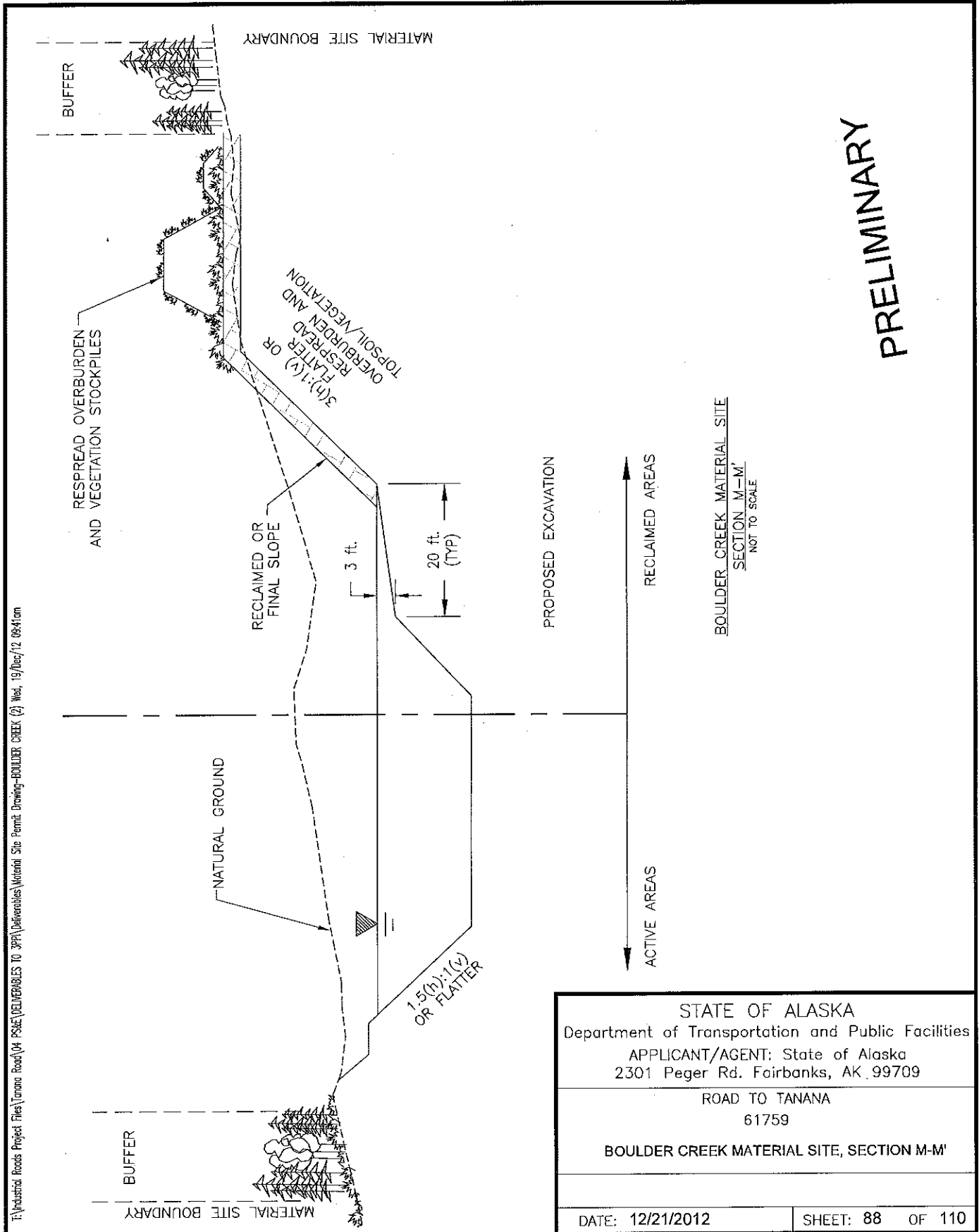


BOULDER CREEK MATERIAL SITE
SECTION L-L'
NOT TO SCALE

T:\Industrial Roads Project Files\Tanana Road\04 PS&E\DELIVERABLES TO 3PP\Deliverables\Material Site Permit Drawing-BOULDER CREEK Med, 19/Dec/12 08:41am

STATE OF ALASKA Department of Transportation and Public Facilities APPLICANT/AGENT: State of Alaska 2301 Peger Rd. Fairbanks, AK 99709	
ROAD TO TANANA 61759 BOULDER CREEK MATERIAL SITE, SECTION L-L'	
DATE: 12/21/2012	SHEET: 87 OF 110

PRELIMINARY

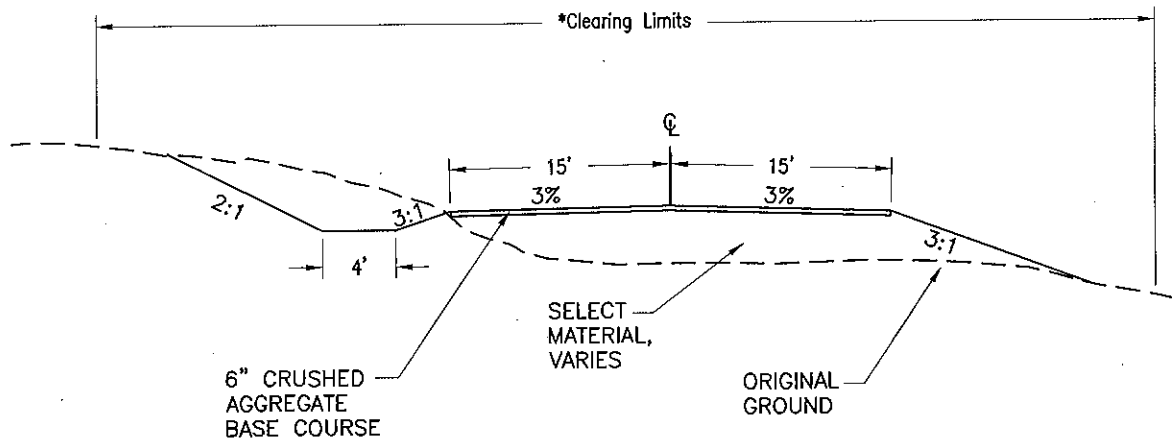


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BOULDER CREEK MATERIAL SITE
SECTION M-M'
NOT TO SCALE

STATE OF ALASKA Department of Transportation and Public Facilities APPLICANT/AGENT: State of Alaska 2301 Peger Rd. Fairbanks, AK 99709	
ROAD TO TANANA 61759 BOULDER CREEK MATERIAL SITE, SECTION M-M'	
DATE: 12/21/2012	SHEET: 88 OF 110

TYPICAL ROAD SECTION
SECTION N-N'
NTS

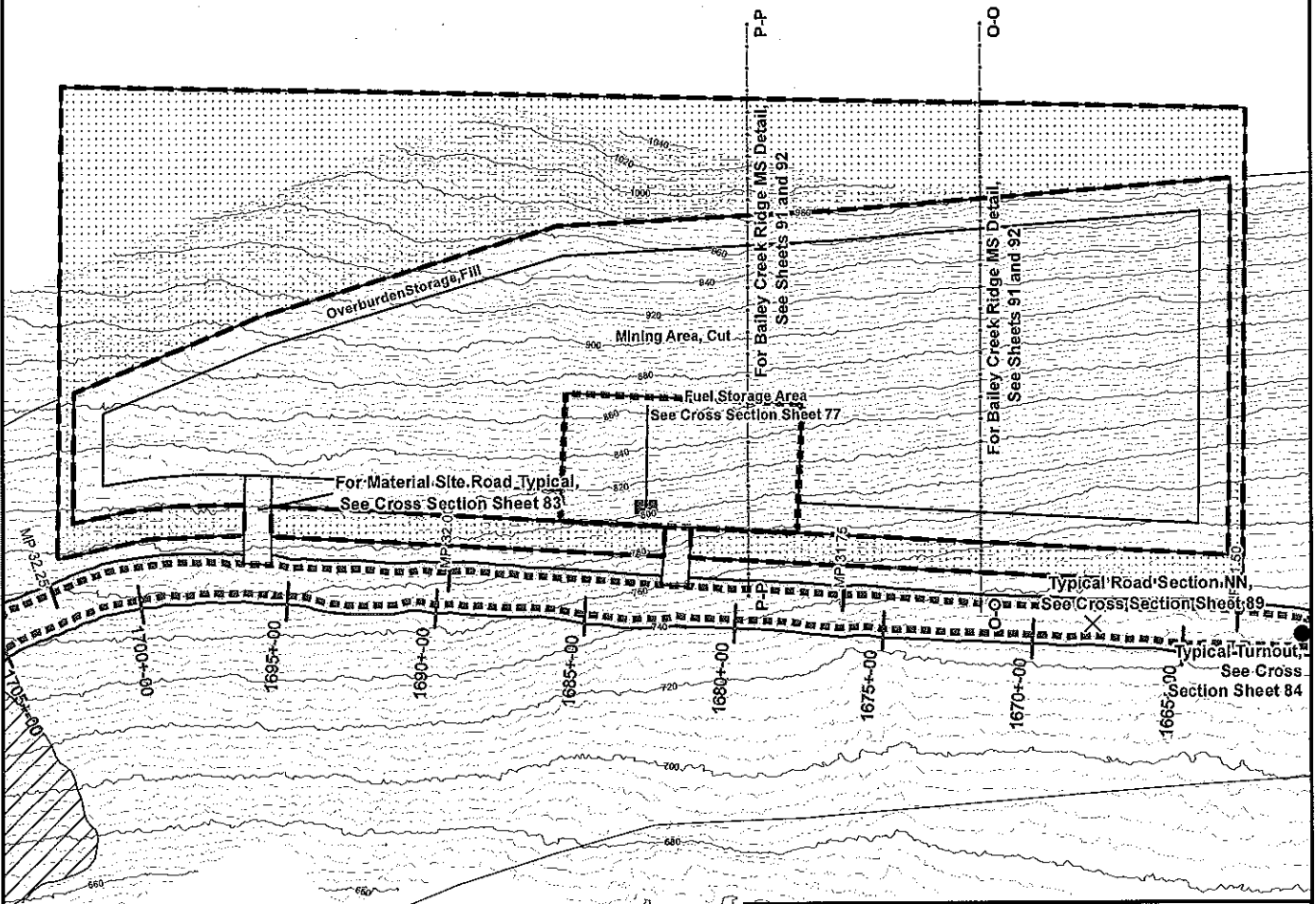
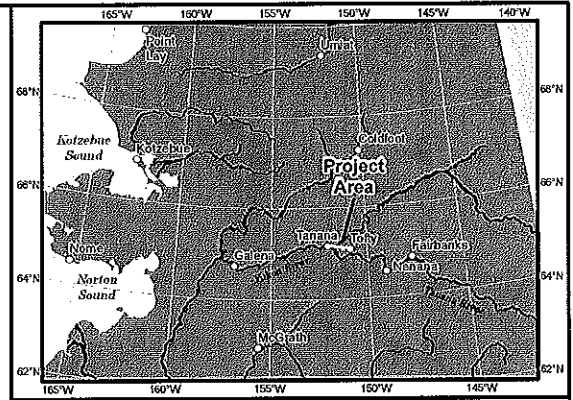
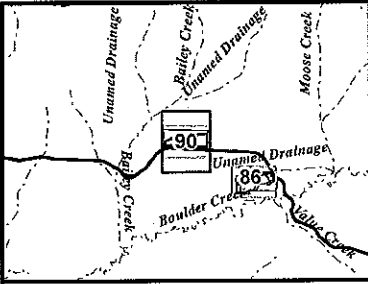


Notes:

- * Clearing limits extend 10' beyond the tow

I:\Industrial_Roads_Project_Files\Tanana_Road\04_PSS&L\DELIVERABLES_TO_3PP\Deliverables\typical-new road Mod_19/dec/12 10:10am

STATE OF ALASKA Department of Transportation and Public Facilities APPLICANT/AGENT: State of Alaska 2301 Peger Rd. Fairbanks, Ak 99709	
ROAD TO TANANA 61759 TYPICAL ROAD SECTION, SECTION N-N'	
DATE: 12/21/2012	SHEET: 89 OF 110



Legend

	Cut/Fill Boundary		Culvert: Type A & B Pipe (See Cross Section Figures 70, 71, 72 & 73)
	Vegetation Clearing		Culvert: Fish Pass Pipe (See Cross Section Figures 94, 95, 72 & 73)
	Vegetative Screen/Buffer		Typical Road Section Change
	3PPI Study Area Boundary (12/17/2012)		MS Section Cut Lines
	Material Site		20R Interval Contour
	Wetland		4ft Interval Contour
	Upland		3PPI Arcs (12/5/2012)
	Wetland/Upland Mosaic		(All drainages are unnamed unless labeled on sheet)
	Navigable Waters		
	Other Waters		
	Previously Disturbed		

Scale 1:7,000

0 425 850 1,275 Feet

STATE OF ALASKA
 Department of Transportation and Public Facilities

APPLICANT/AGENT: State of Alaska
 2301 Peger Rd. Fairbanks, AK 99709

TANANA ROAD PROJECT
 61759

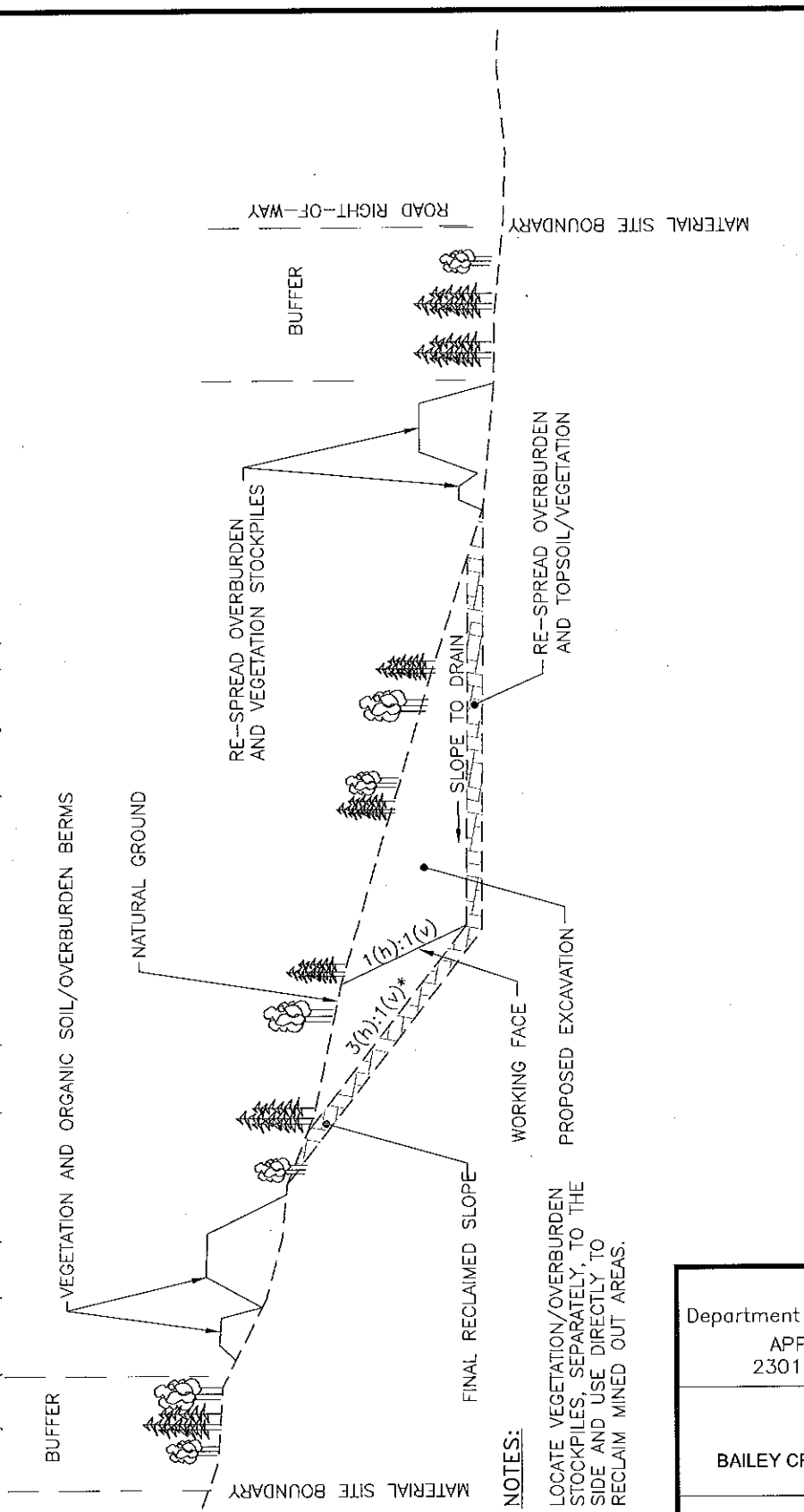
Material Site Plan View, MP31.46 to 32.27
Bailey Creek Ridge Material Site

Fish Creek Basin

DATE: FEBRUARY 2013	SHEET: 90 of 110
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C:\Projects\280_3PPI\Tanana_2012\Mxds_404\RD\Tanana_404_Corps_MS_8x11_1c77_v01.mxd 02/08/13 01:14 PM

T:\Industrial Roads Project Files\Tanana Road\04 PS&E\DELIVERABLES TO 3PP\Deliverables\Material Site Rec Plan - Soft Bedrock-Bailey Creek Ridge West, 19/Dec/12 09:42am



NOTES:
 LOCATE VEGETATION/OVERBURDEN STOCKPILES, SEPARATELY, TO THE SIDE AND USE DIRECTLY TO RECLAIM MINED OUT AREAS.

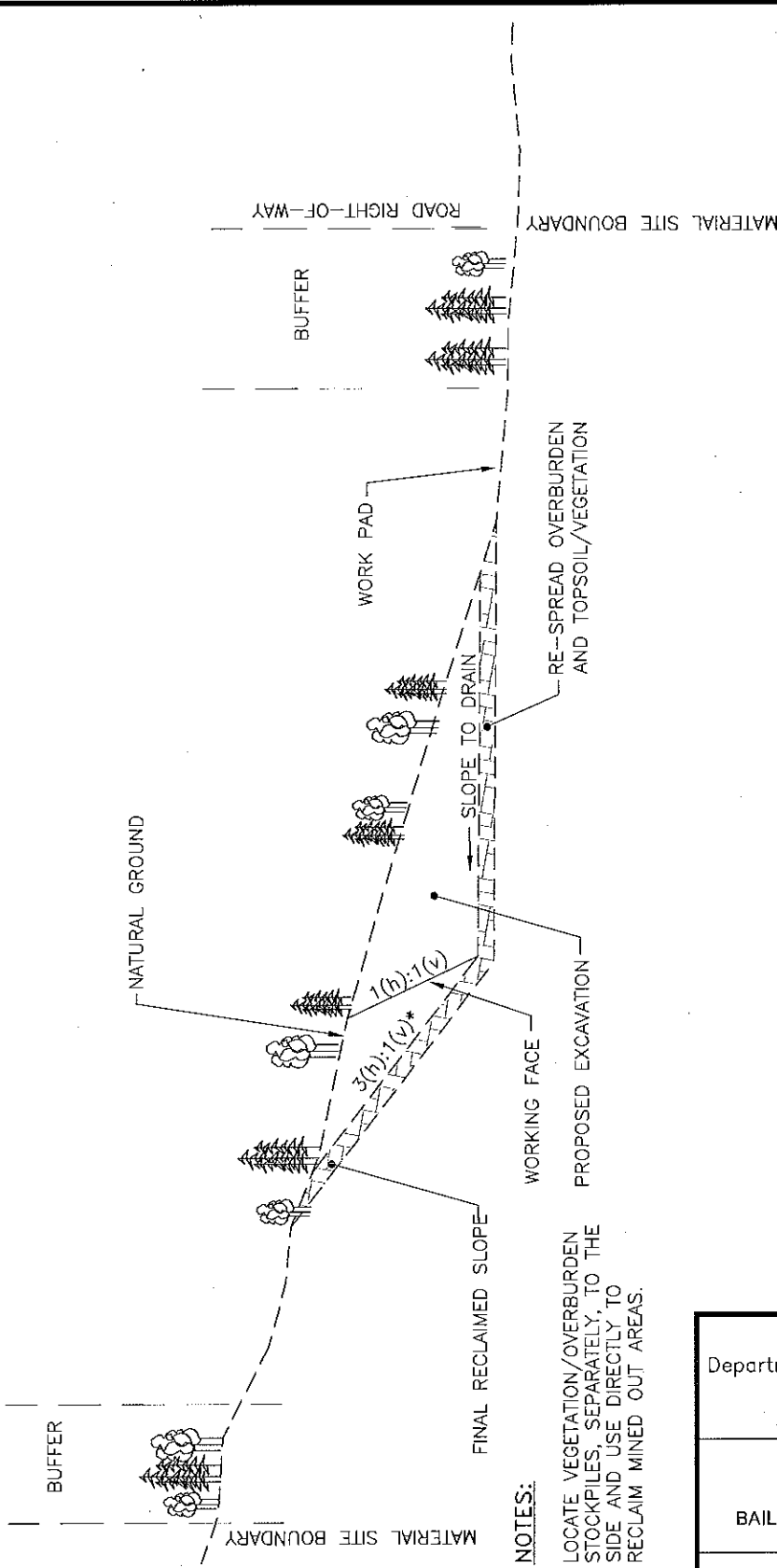
BAILEY CREEK RIDGE MATERIAL SITE
 SECTION O-O'
 NOT TO SCALE

PRELIMINARY

STATE OF ALASKA Department of Transportation and Public Facilities APPLICANT/AGENT: State of Alaska 2301 Peger Rd. Fairbanks, Ak 99709	
ROAD TO TANANA 61759 BAILEY CREEK RIDGE MATERIAL SITE, SECTION O-O'	
DATE: 12/21/2012	SHEET: 91 OF 110

PRELIMINARY

F:\Industrial Roads Project Files\Tanana Road\04 PS&E\DELIVERABLES TO 3PP\Deliverables\material Site Rec Plan - Soft Berrook-Bailey Creek Ridge (2).Wed, 19/Dec/12 09:42am



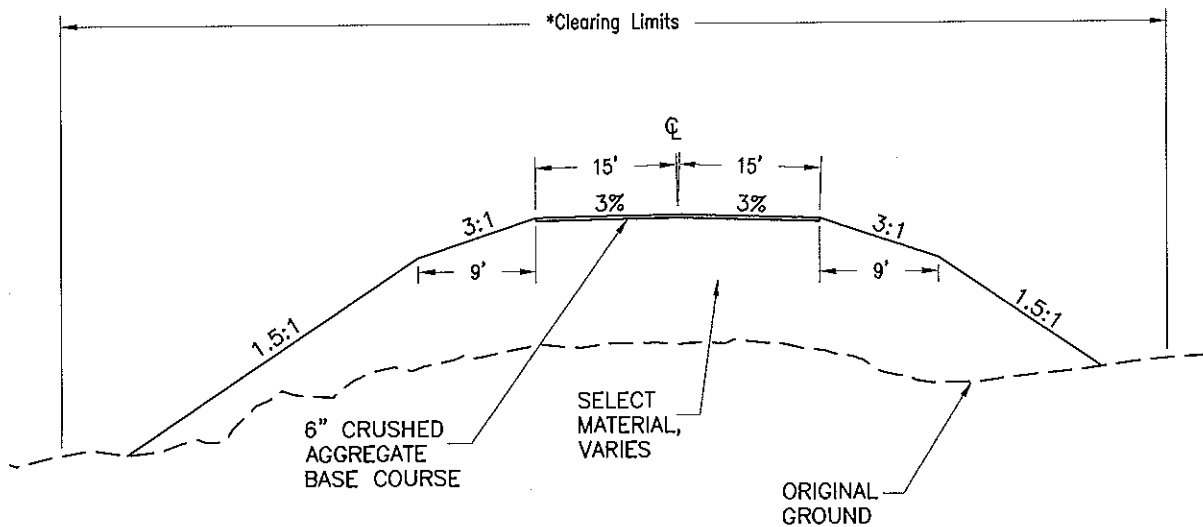
NOTES:

LOCATE VEGETATION/OVERBURDEN STOCKPILES, SEPARATELY, TO THE SIDE AND USE DIRECTLY TO RECLAIM MINED OUT AREAS.

BAILLEY CREEK RIDGE MATERIAL SITE
SECTION P-P
NOT TO SCALE

STATE OF ALASKA Department of Transportation and Public Facilities APPLICANT/AGENT: State of Alaska 2301 Peger Rd. Fairbanks, Ak 99709	
ROAD TO TANANA 61759 BAILLEY CREEK RIDGE MATERIAL SITE, SECTION P-P	
DATE: 12/21/2012	SHEET: 92 OF 110

TYPICAL ROAD SECTION
SECTION Q-Q'
NTS

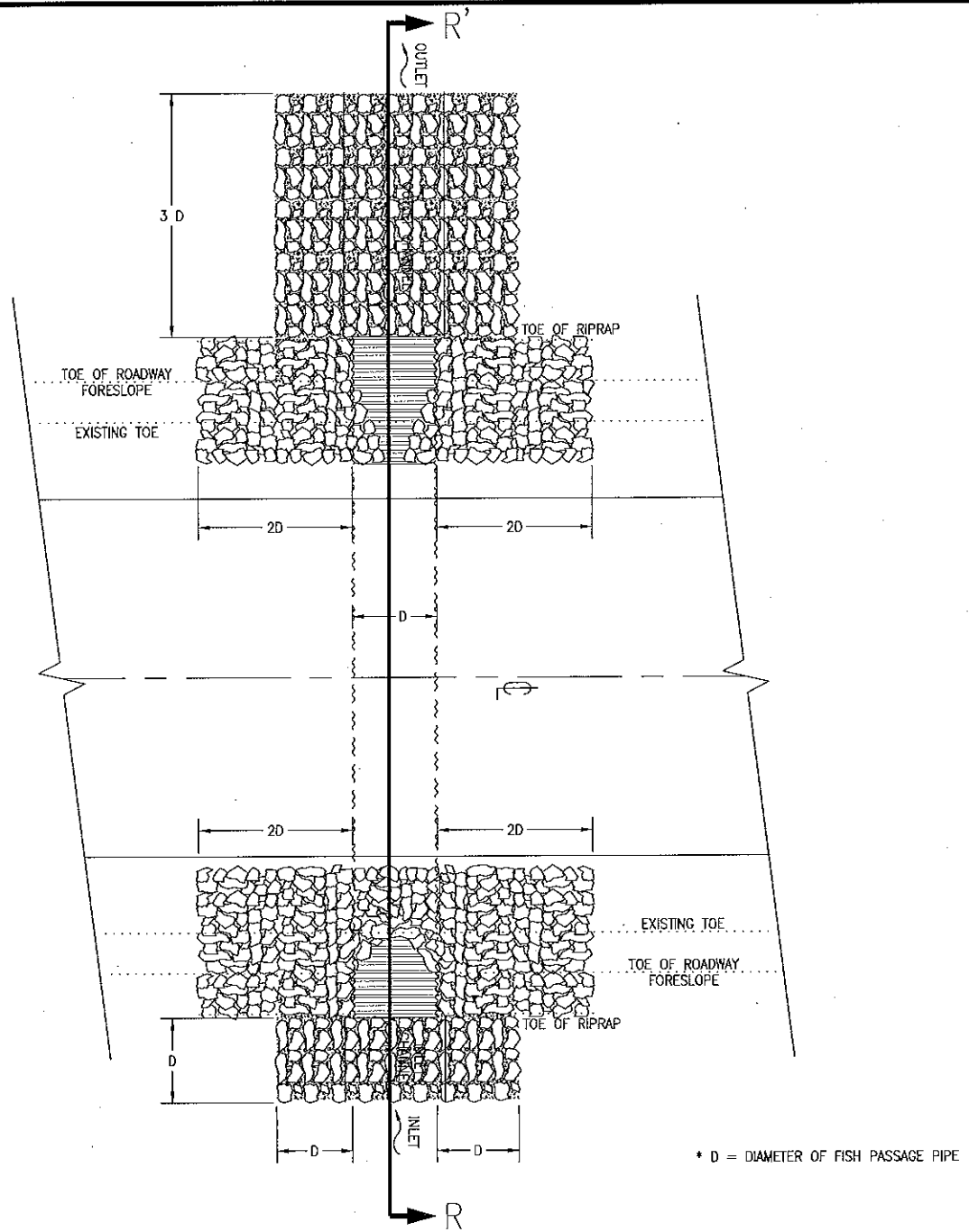


Notes:

- * Clearing limits extend 10' beyond the tow
- Typical Section 'Q-Q' is typical for fill sections exceeding 10'

T:\Industrial Roads Project Files\Tanana Road\04_P&E\DELIVERABLES TO 3PP\Deliverables\Typical-new road large fill West_19/Dec/12_10:16am

STATE OF ALASKA Department of Transportation and Public Facilities APPLICANT/AGENT: State of Alaska 2301 Peger Rd. Fairbanks, Ak 99709	
ROAD TO TANANA 61759 TYPICAL ROAD SECTION, SECTION Q-Q'	
DATE: 12/21/2012	SHEET: 93 OF 110

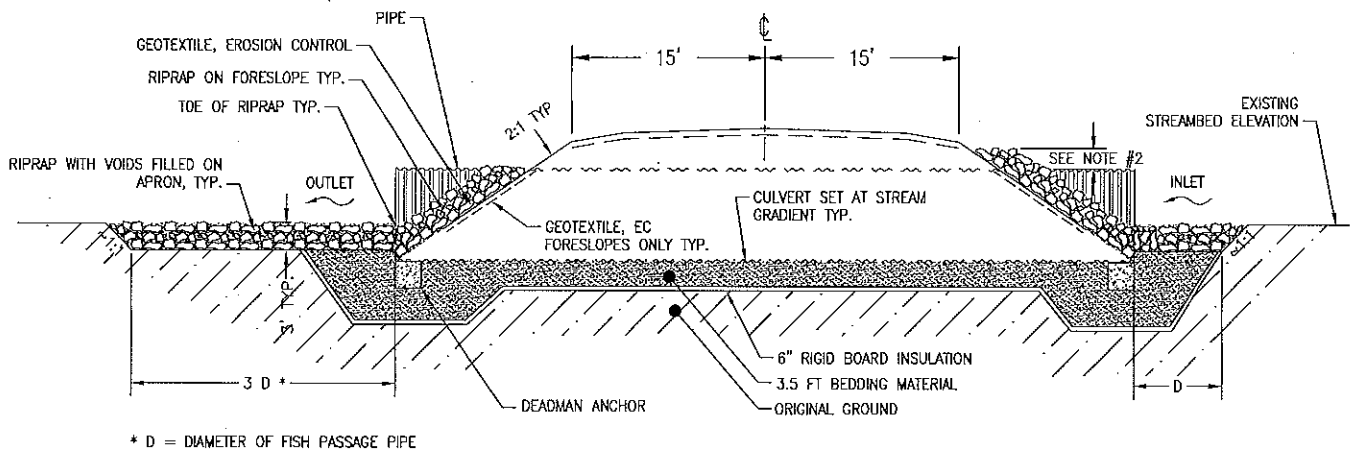


FISH PASSAGE PIPE PLAN VIEW
NOT TO SCALE

PRELIMINARY

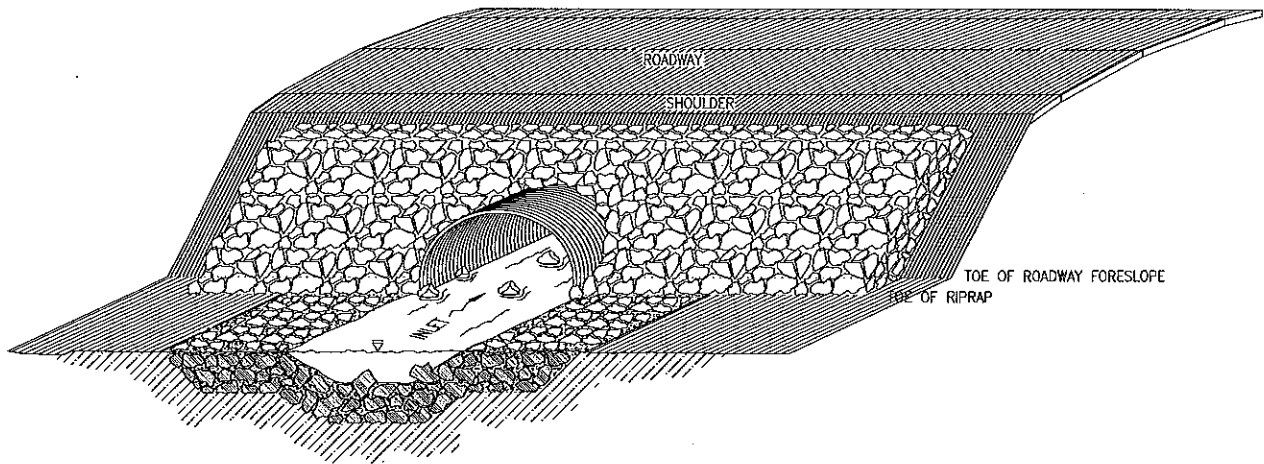
STATE OF ALASKA Department of Transportation and Public Facilities APPLICANT/AGENT: State of Alaska 2301 Peger Rd. Fairbanks, AK 99709	
ROAD TO TANANA 61759 FISH PASS PIPE PLAN VIEW, SECTION R-R'	
DATE: 12/21/2012	SHEET: 94 OF 110

T:\Industrial Roads Project Files\tanana Road\04_P3&E\DELIVERABLES TO SPH\Deliverables\Chairs\COLVERT TYPICALS-Fairb-197.dwg/12 05:44am



* D = DIAMETER OF FISH PASSAGE PIPE

FISH PASSAGE PIPE TYPICAL
SECTION R-R'
NOT TO SCALE



FISH PASSAGE PIPE OBLIQUE VIEW
NOT TO SCALE

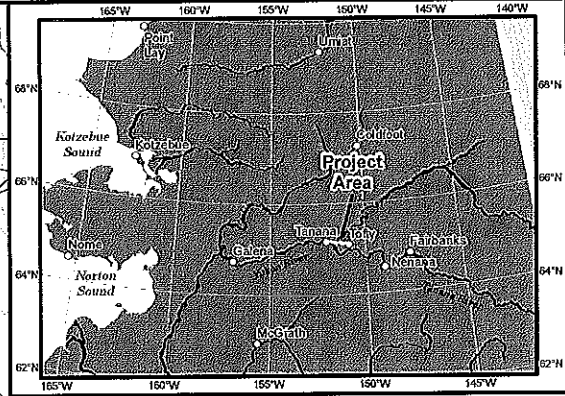
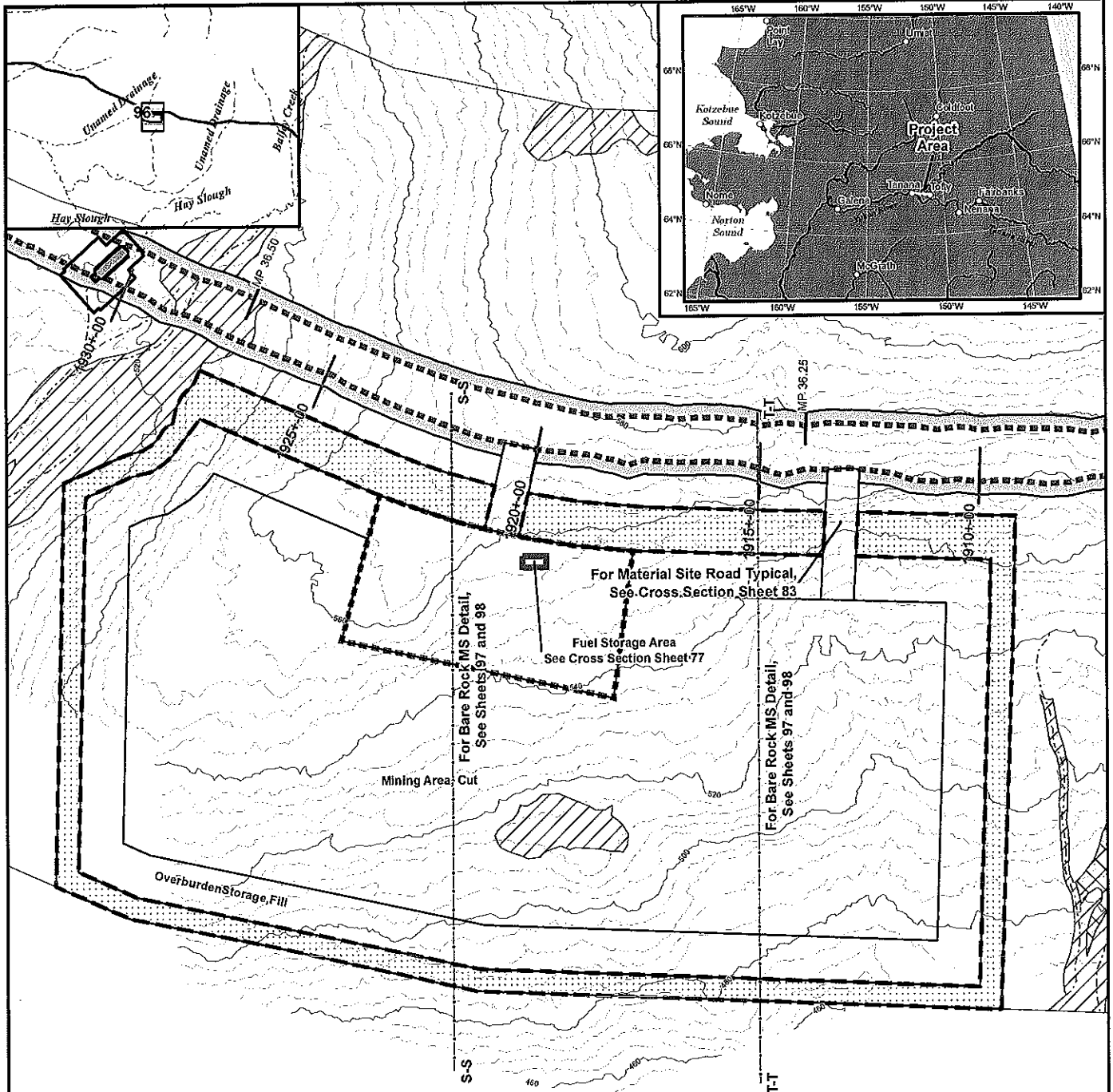
NOTES:

1. EROSION CONTROL STRUCTURES ARE APPROXIMATE AND MAY BE FIELD ADJUSTED BY THE ENGINEER TO TAKE ADVANTAGE OF EXISTING CHANNEL FEATURES.
2. EXTEND RIPRAP 3 FEET ABOVE THE PIPE ON THE INLET SIDE OR TO EDGE OF SHOULDER, WHICHEVER IS LESS. ON THE OUTLET SIDE, THE RIPRAP SHALL EXTEND TO THE TOP OF THE PIPE.
3. GEOTEXTILE IS NEEDED ON ROADWAY FORESLOPE ONLY.
4. FILL VOIDS IN THE INLET AND OUTLET CHANNEL BOTTOM RIPRAP APRONS WITH GRAVEL.

PRELIMINARY

STATE OF ALASKA Department of Transportation and Public Facilities APPLICANT/AGENT: State of Alaska 2301 Peger Rd. Fairbanks, AK 99709	
ROAD TO TANANA 61759	
FISH PASS PIPE PLAN AND OBLIQUE VIEW, SECTION R-R'	
DATE: 12/21/2012	SHEET: 95 OF 110

I:\Industrial Roads Project Files\Tanana Road\04-FS&E\DELIVERABLES TO JPR\Deliverables\Culvert\CULVERT TYPICALS-Fish Web_19/Dec/12_09:44am



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Legend

	Cut/Fill Boundary		Culvert: Type A & B Pipe (See Cross Section Figures 70, 71, 72 & 73)
	Vegetation Clearing		Culvert: Fish Pass Pipe (See Cross Section Figures 94, 95, 72 & 73)
	Vegetative Screen/Buffer		Typical Road Section Change
	3PPI Study Area Boundary (12/17/2012)		MS Section Cut Lines
	Material Site		20ft Interval Contour
	Wetland		4ft Interval Contour
	Upland		3PPI Arcs (12/5/2012)
	Wetland/Upland Mosaic		(All drainages are unnamed unless labeled on sheet)
	Navigable Waters		
	Other Waters		
	Previously Disturbed		

Scale 1:4,000

0 250 500 750 Feet

N

STATE OF ALASKA
Department of Transportation and Public Facilities

APPLICANT/AGENT: State of Alaska
2301 Peger Rd. Fairbanks, AK 99709

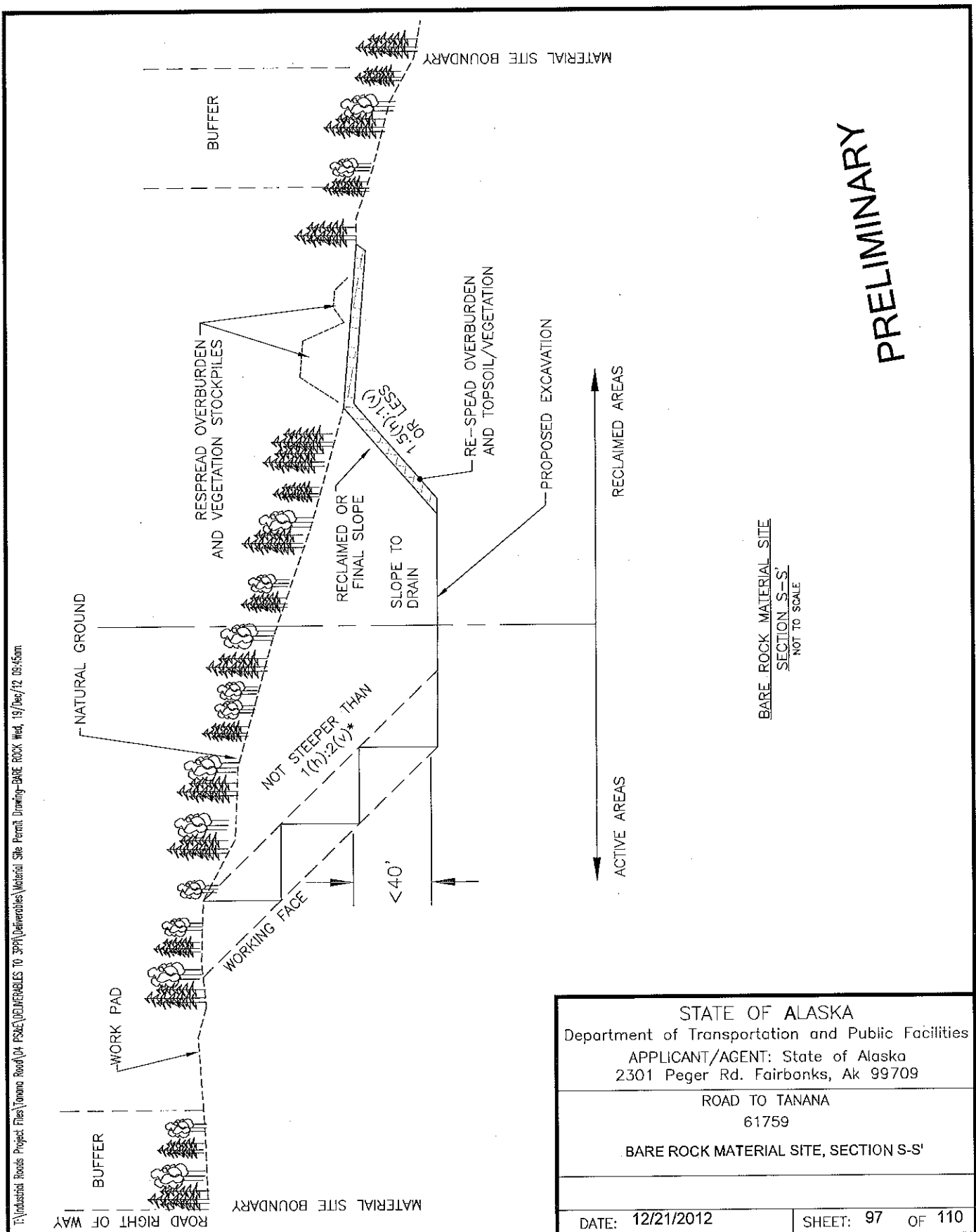
TANANA ROAD PROJECT
61759

Material Site Plan View, MP36.13 to 36.56
Bare Rock Material Site

Tanana River Basin

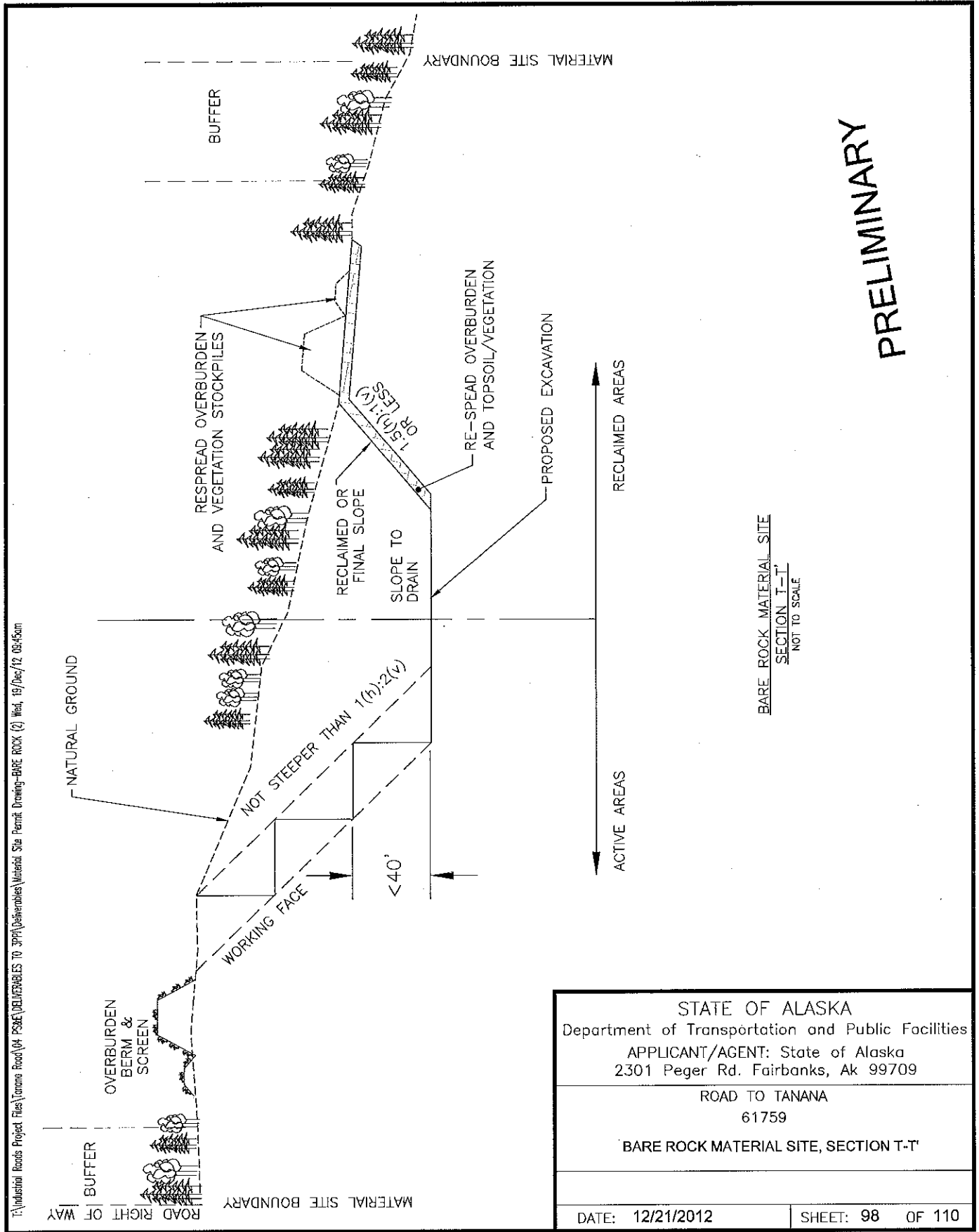
DATE: FEBRUARY 2013	SHEET: 96 of 110
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PRELIMINARY



T:\Industrial Routes Project Files\Tanana Road\04_FS&E\DELIVERABLES TO 3PTA\Deliverables\Material Site Permit\Drawing-BARE ROCK West_19\Dec/12 09:56am

STATE OF ALASKA Department of Transportation and Public Facilities APPLICANT/AGENT: State of Alaska 2301 Peger Rd. Fairbanks, Ak 99709	
ROAD TO TANANA 61759 BARE ROCK MATERIAL SITE, SECTION S-S	
DATE: 12/21/2012	SHEET: 97 OF 110

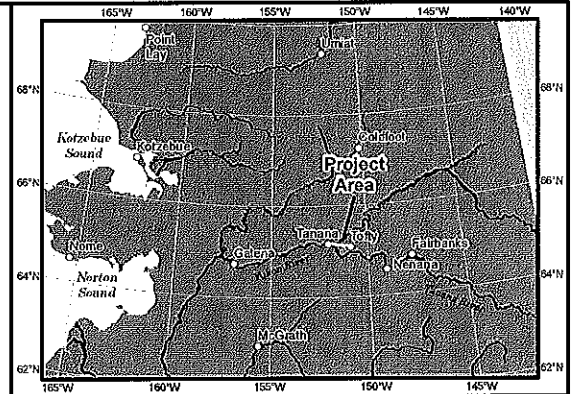
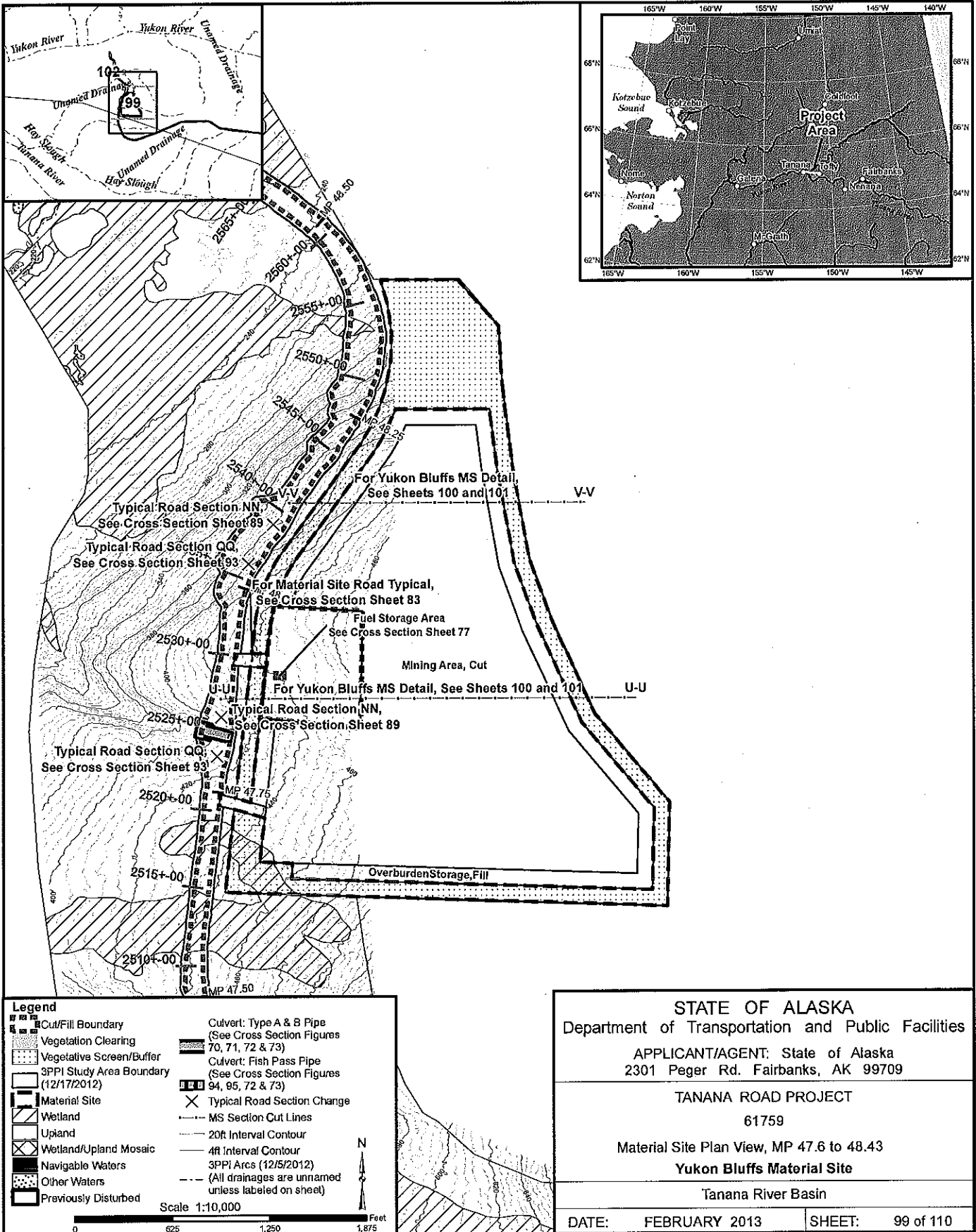


PRELIMINARY

BARE ROCK MATERIAL SITE
SECTION T-T'
NOT TO SCALE

STATE OF ALASKA Department of Transportation and Public Facilities APPLICANT/AGENT: State of Alaska 2301 Peger Rd. Fairbanks, Ak 99709	
ROAD TO TANANA 61759 'BARE ROCK MATERIAL SITE, SECTION T-T'	
DATE: 12/21/2012	SHEET: 98 OF 110

T:\Industrial Roads Project Files\tanana Road\04 FS&E\DELIVERABLES TO 3PP\Deliverables\Material Site Permit Drawing-BARE ROCK (2) West, 19/Dec/12 09:45am



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Legend

	Cut/Fill Boundary		Culvert: Type A & B Pipe (See Cross Section Figures 70, 71, 72 & 73)
	Vegetation Clearing		Culvert: Fish Pass Pipe (See Cross Section Figures 94, 95, 72 & 73)
	Vegetative Screen/Buffer		Typical Road Section Change
	3PPI Study Area Boundary (12/17/2012)		MS Section Cut Lines
	Material Site		20ft Interval Contour
	Wetland		4ft Interval Contour
	Upland		3PPI Arcs (12/5/2012)
	Wetland/Upland Mosaic		(All drainages are unnamed unless labeled on sheet)
	Navigable Waters		
	Other Waters		
	Previously Disturbed		

Scale 1:10,000

0 625 1,250 1,875 Feet

STATE OF ALASKA
Department of Transportation and Public Facilities

APPLICANT/AGENT: State of Alaska
2301 Peger Rd. Fairbanks, AK 99709

TANANA ROAD PROJECT
61759

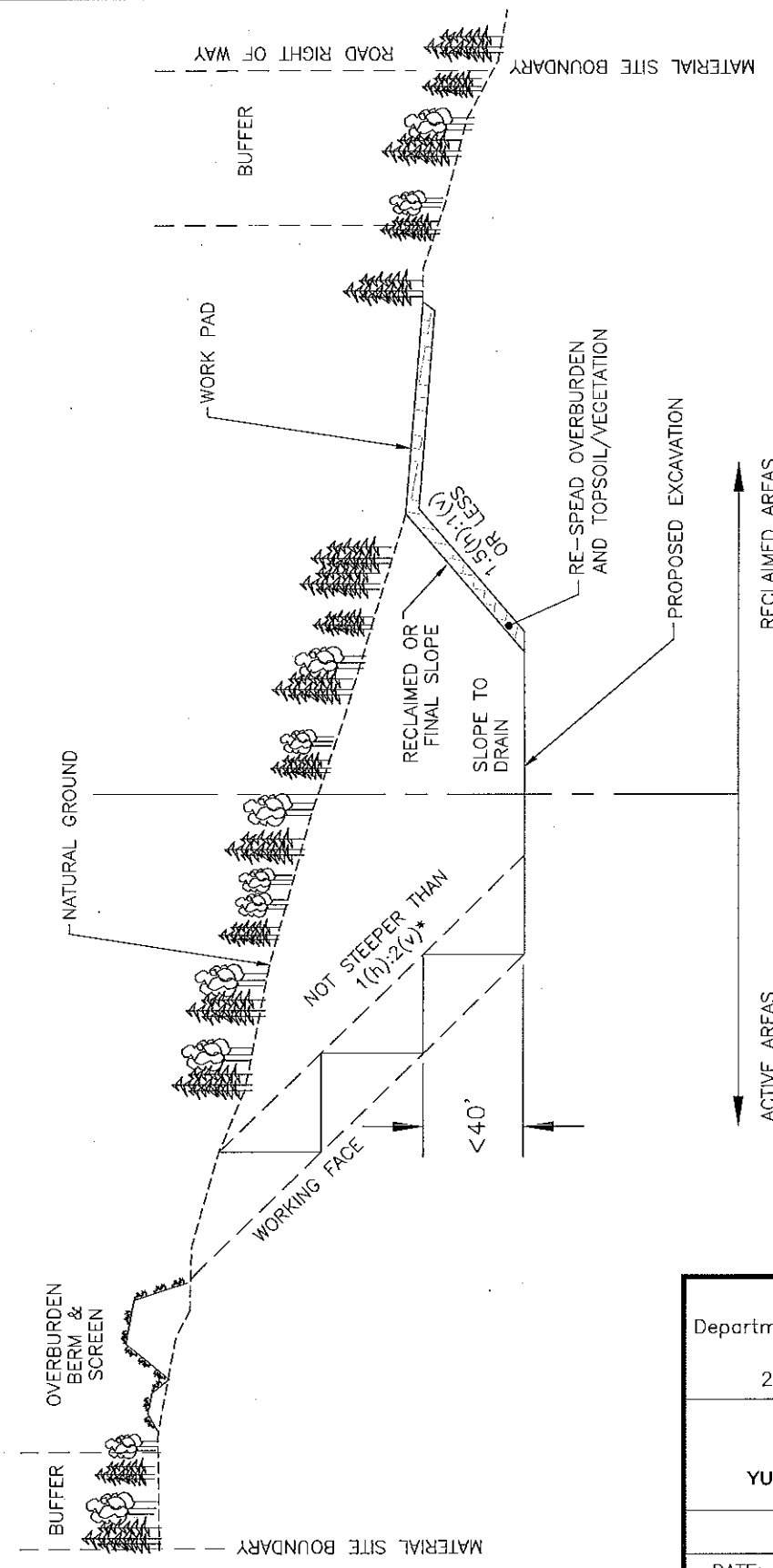
Material Site Plan View, MP 47.6 to 48.43
Yukon Bluffs Material Site

Tanana River Basin

DATE: FEBRUARY 2013	SHEET: 99 of 110
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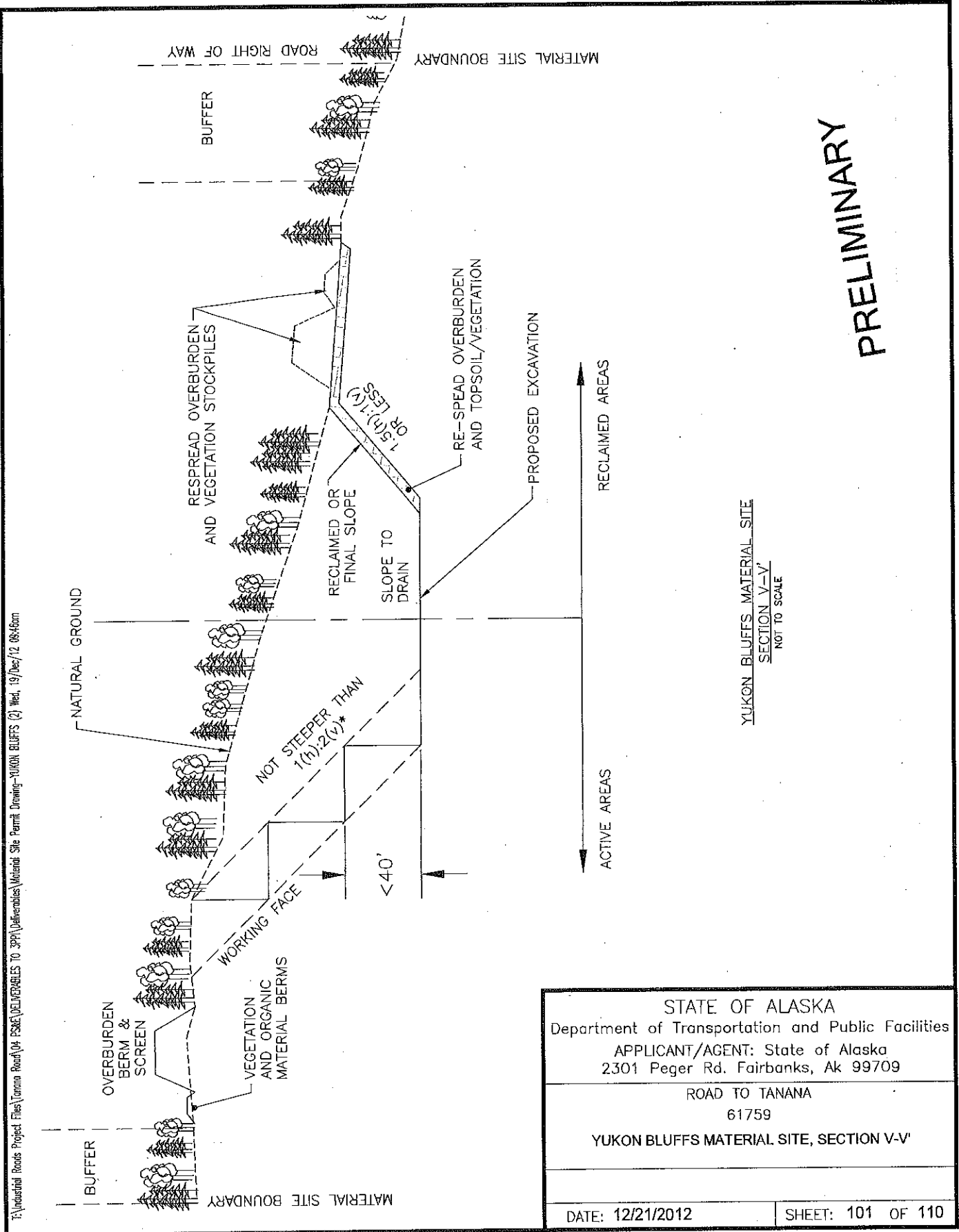
PRELIMINARY

YUKON BLUFFS MATERIAL SITE
SECTION U-U'
NOT TO SCALE



T:\Industrial Roads Project Files\Tanana Road\04 PS&E\DELIVERABLES TO 3PP\Deliverables\Material Site Permit Drawing-YUKON BLUFFS West, 19/Dec/12 08:46am

STATE OF ALASKA Department of Transportation and Public Facilities APPLICANT/AGENT: State of Alaska 2301 Peger Rd. Fairbanks, Ak 99709	
ROAD TO TANANA 61759 YUKON BLUFFS MATERIAL SITE, SECTION U-U'	
DATE: 12/21/2012	SHEET: 100 OF 110



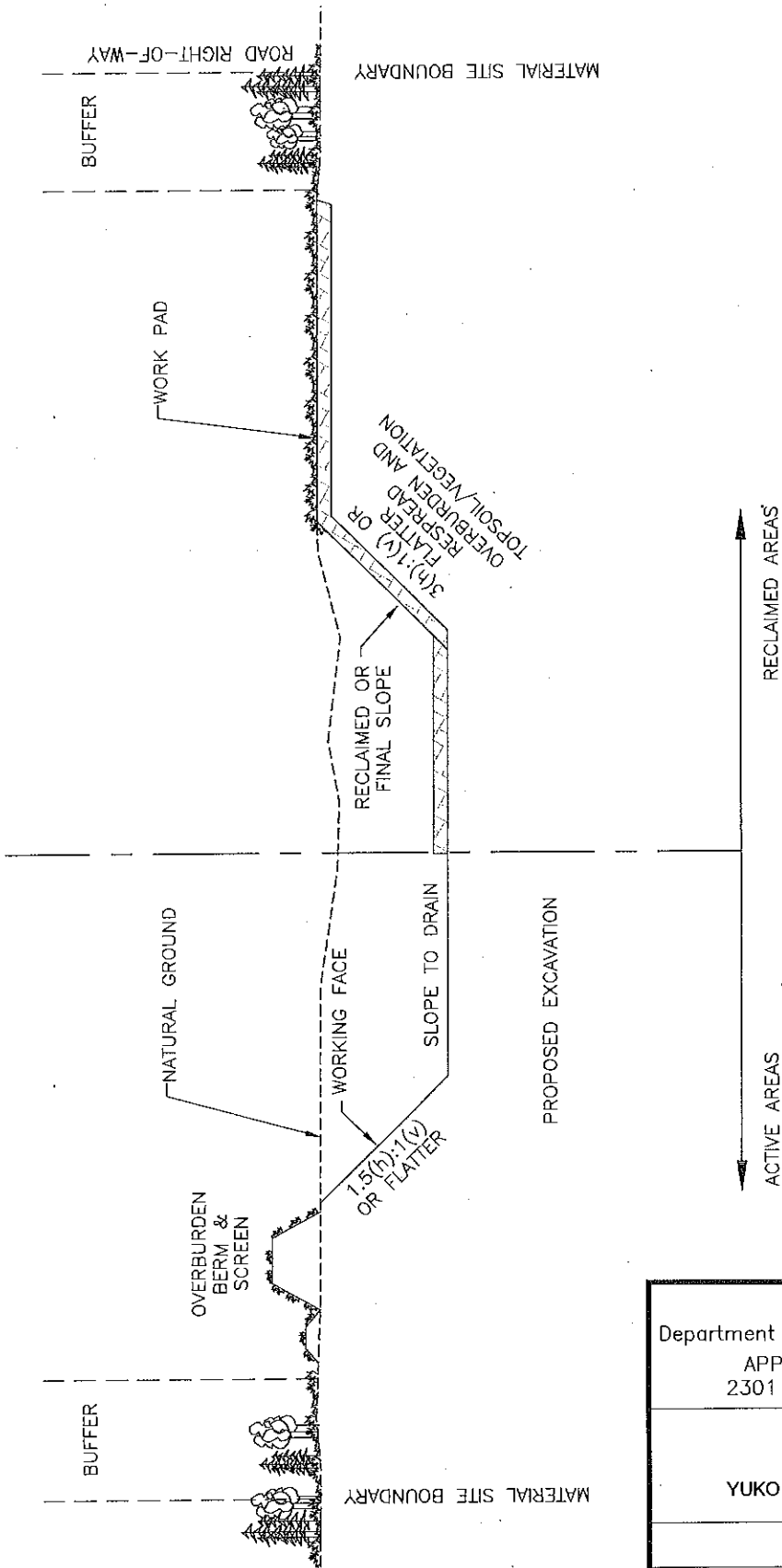
PRELIMINARY

YUKON BLUFFS MATERIAL SITE
SECTION V-V'
NOT TO SCALE

STATE OF ALASKA Department of Transportation and Public Facilities APPLICANT/AGENT: State of Alaska 2301 Peger Rd. Fairbanks, Ak 99709	
ROAD TO TANANA 61759 YUKON BLUFFS MATERIAL SITE, SECTION V-V'	
DATE: 12/21/2012	SHEET: 101 OF 110

T:\Industrial Roads Project Files\tanana Road\04-ES&E\DELIVERABLES TO 3PP\Deliverables\Material Site Permit Drawing-YUKON BLUFFS (2) West_19 Dec'12 08:46am

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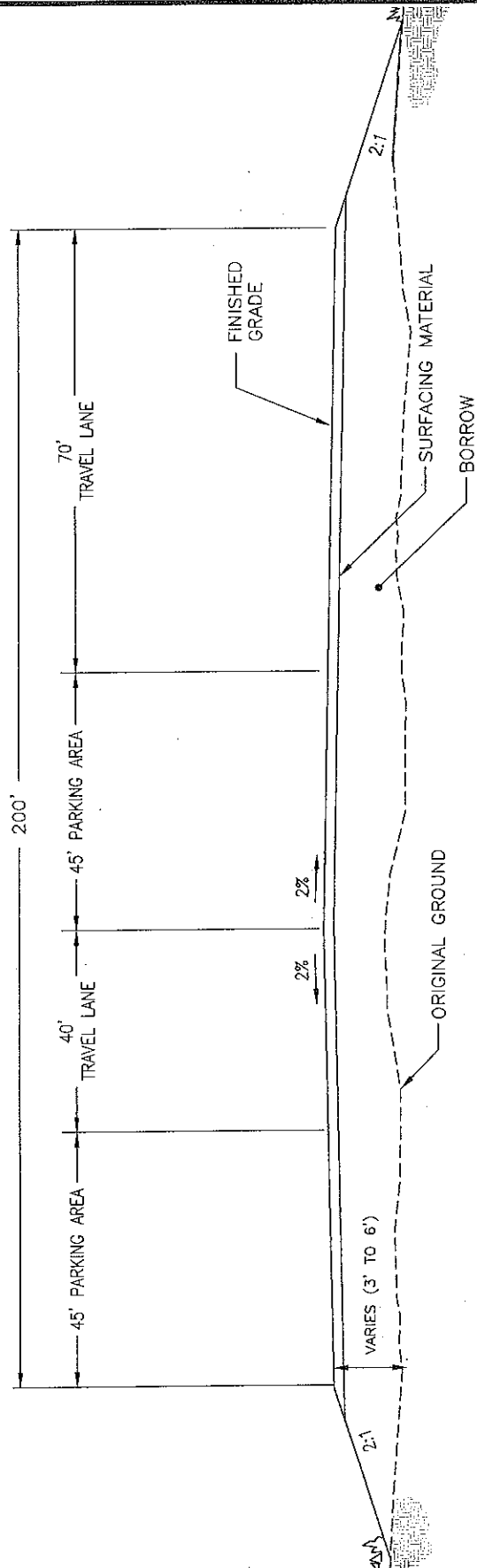


YUKON RIVER MATERIAL SITE
 SECTION X-X'
 NOT TO SCALE

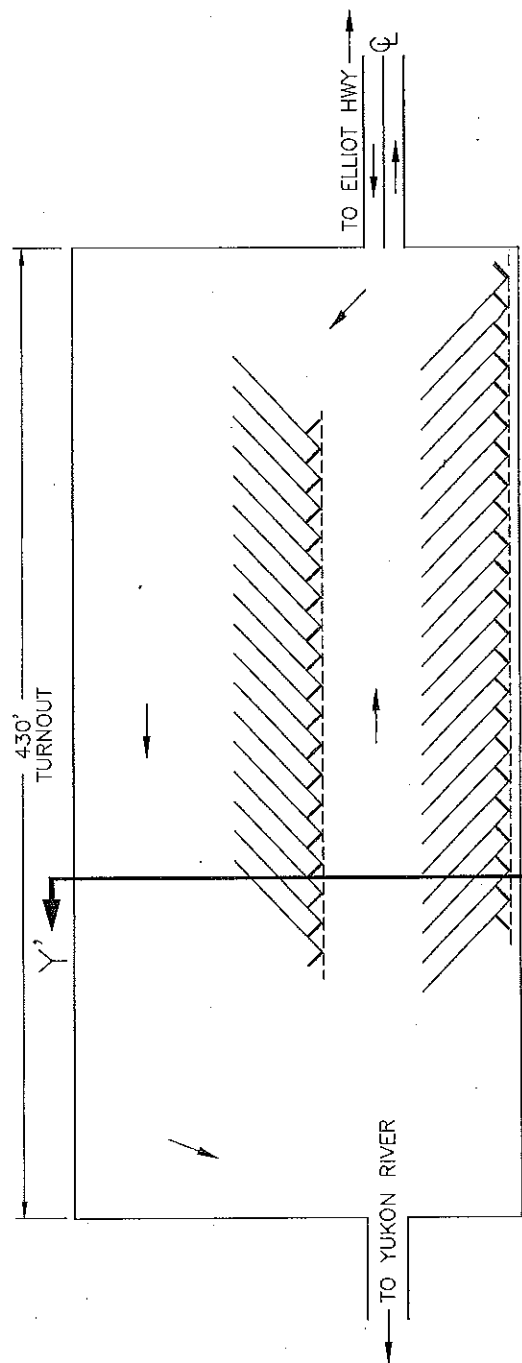
PRELIMINARY

STATE OF ALASKA Department of Transportation and Public Facilities APPLICANT/AGENT: State of Alaska 2301 Peger Rd. Fairbanks, Ak 99709	
ROAD TO TANANA 61759 YUKON RIVER MATERIAL SITE, SECTION X-X'	
DATE: 12/21/2012	SHEET: 104 OF 110

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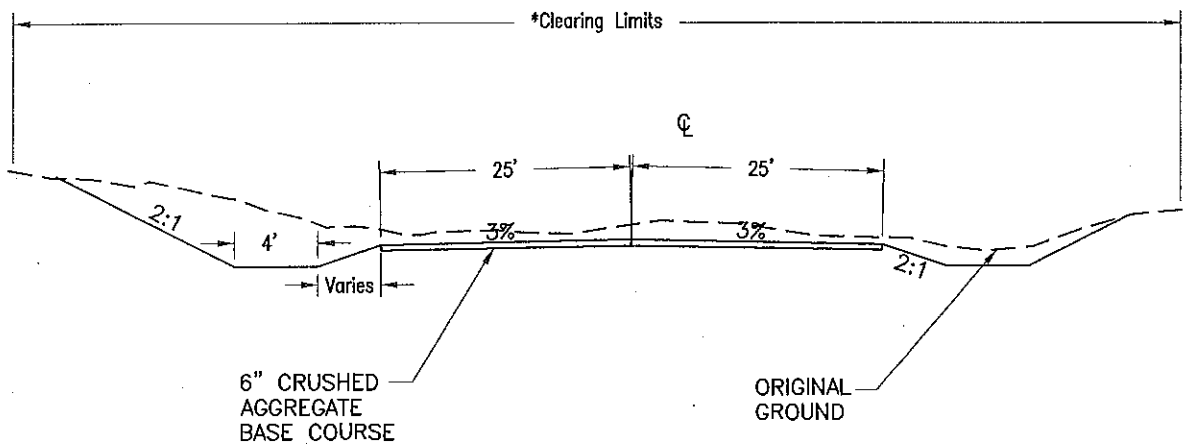
TYPICAL SECTION
SECTION Y-Y'
NOT TO SCALE



PLAN
NOT TO SCALE

STATE OF ALASKA Department of Transportation and Public Facilities APPLICANT/AGENT: State of Alaska 2301 Peger Rd. Fairbanks, AK 99709	
ROAD TO TANANA 61759	
YUKON RIVER MATERIAL SITE, SECTION Y-Y'	
DATE: 12/21/2012	SHEET: 105 OF 110

TYPICAL ROAD SECTION
SECTION Z-Z'
NTS

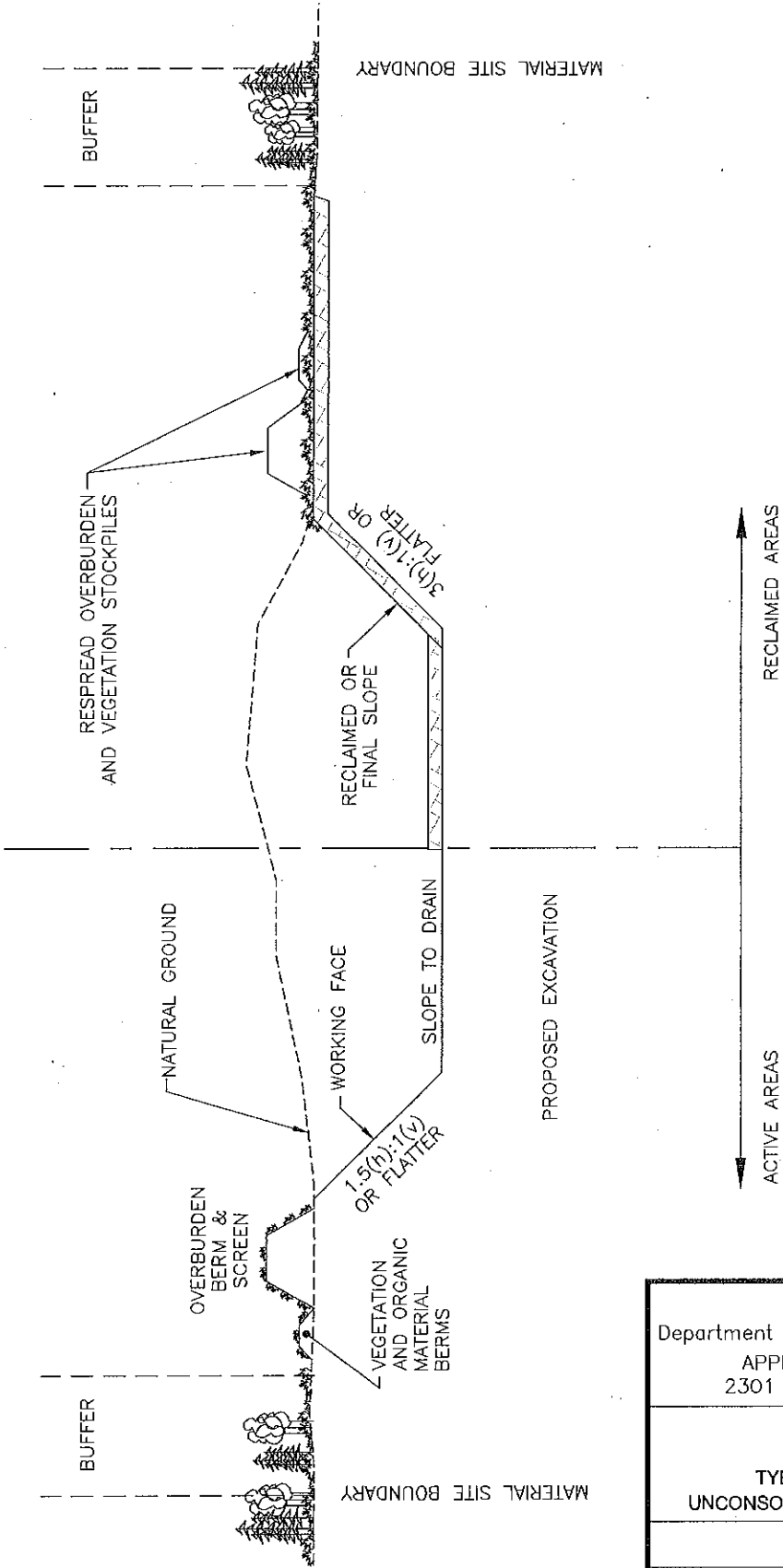


Notes:
* Clearing limits extend 10' beyond the tow

T:\Industry\Roads Project Files\Tanana Road\04_POA\DELIVERABLES TO 3PA\Deliverables\Typed-yukon terminus Wed, 19/Dec/12 10:08am

STATE OF ALASKA Department of Transportation and Public Facilities APPLICANT/AGENT: State of Alaska 2301 Peger Rd. Fairbanks, Ak 99709	
ROAD TO TANANA 61759 TYPICAL ROAD SECTION, SECTION Z-Z'	
DATE: 12/21/2012	SHEET: 106 OF 110

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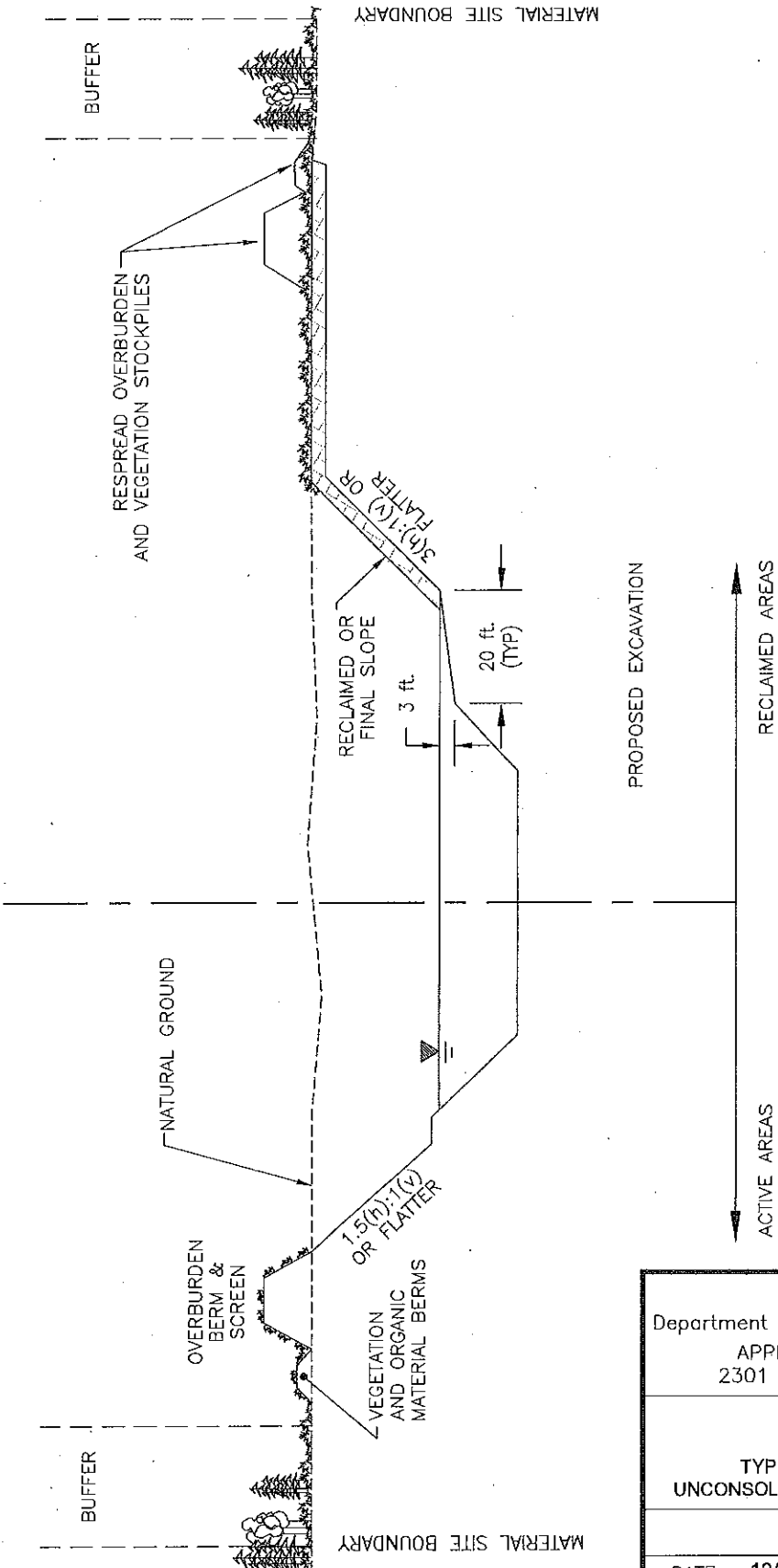
TYPICAL CROSS SECTION IN UNCONSOLIDATED MATERIAL ABOVE WATER TABLE
NOT TO SCALE

NOTE: MATERIAL SITE DIMENSIONS VARY BY SITE. SEE TABLE FOR ACREAGE BY SITE.

PRELIMINARY

STATE OF ALASKA Department of Transportation and Public Facilities APPLICANT/AGENT: State of Alaska 2301 Peger Rd. Fairbanks, Ak 99709	
ROAD TO TANANA 61759 TYPICAL MINING RECLAMATION PLAN: UNCONSOLIDATED MATERIAL ABOVE WATER TABLE	
DATE: 12/21/2012	SHEET: 107 OF 110

F:\Industrial Roads Project Files\Tanana Road\04_PSAE\DELIVERABLES TO SPA\DELIVERABLES Material Site Permit Drawing-MET Title 18/Dec/12 04:39pm



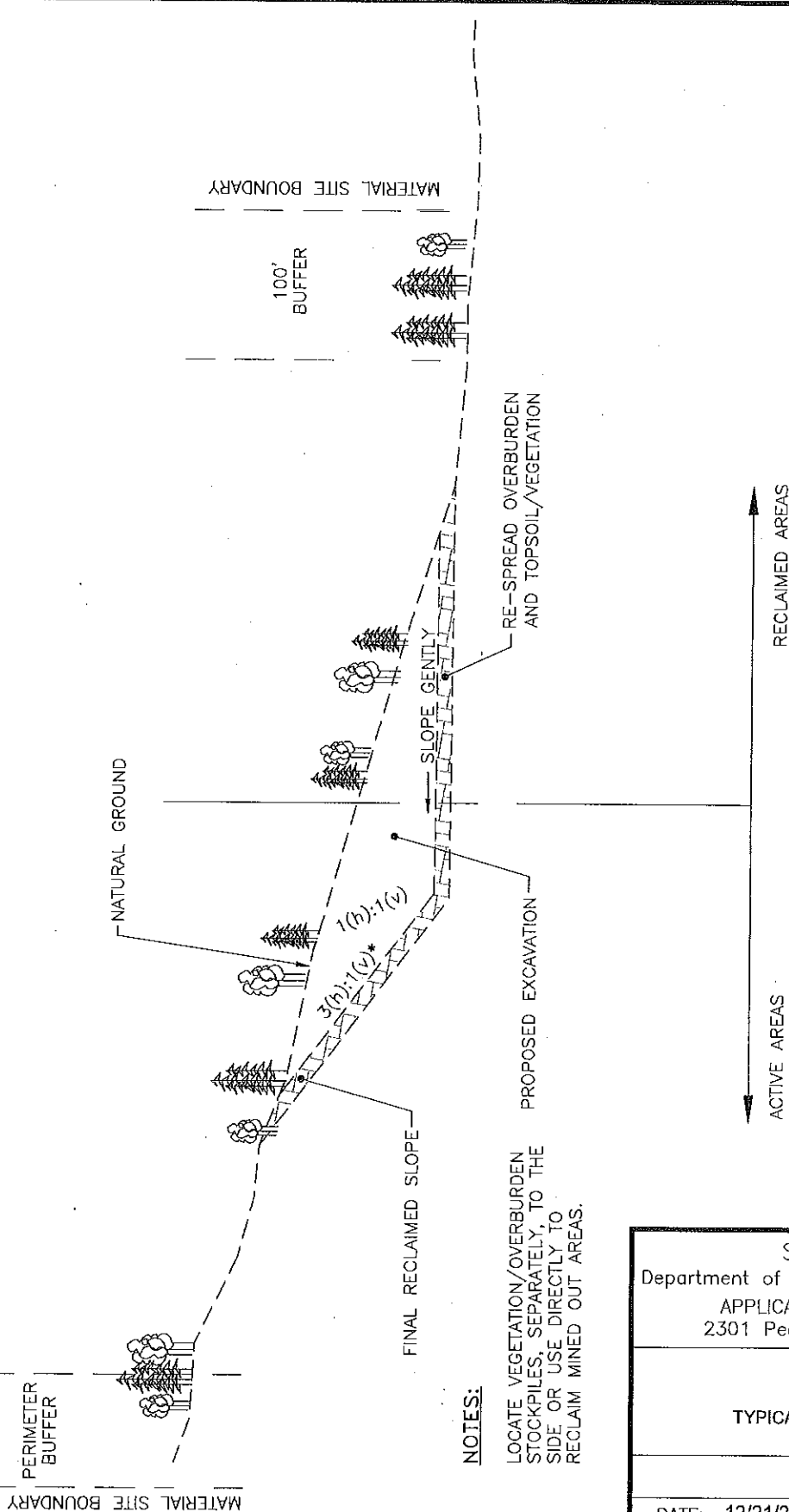
TYPICAL CROSS SECTION IN UNCONSOLIDATED MATERIAL BELOW WATER TABLE
NOT TO SCALE

NOTE: MATERIAL SITE DIMENSIONS VARY BY SITE. SEE TABLE FOR ACREAGE BY SITE.

PRELIMINARY

STATE OF ALASKA Department of Transportation and Public Facilities APPLICANT/AGENT: State of Alaska 2301 Peger Rd. Fairbanks, AK 99709	
ROAD TO TANANA 61759 TYPICAL MINING RECLAMATION PLAN: UNCONSOLIDATED MATERIAL BELOW WATER TABLE	
DATE: 12/21/2012	SHEET: 108 OF 110

T:\Industrial Roads\Project Files\Tanana Road\04 PS&E\DELIVERABLES TO 3PP\Deliverables\Material Site Rec Plan - Soft Bedrock-1 Tue, 18/Dec/12 04:41pm



NOTES:

LOCATE VEGETATION/OVERBURDEN STOCKPILES, SEPARATELY, TO THE SIDE OR USE DIRECTLY TO RECLAIM MINED OUT AREAS.

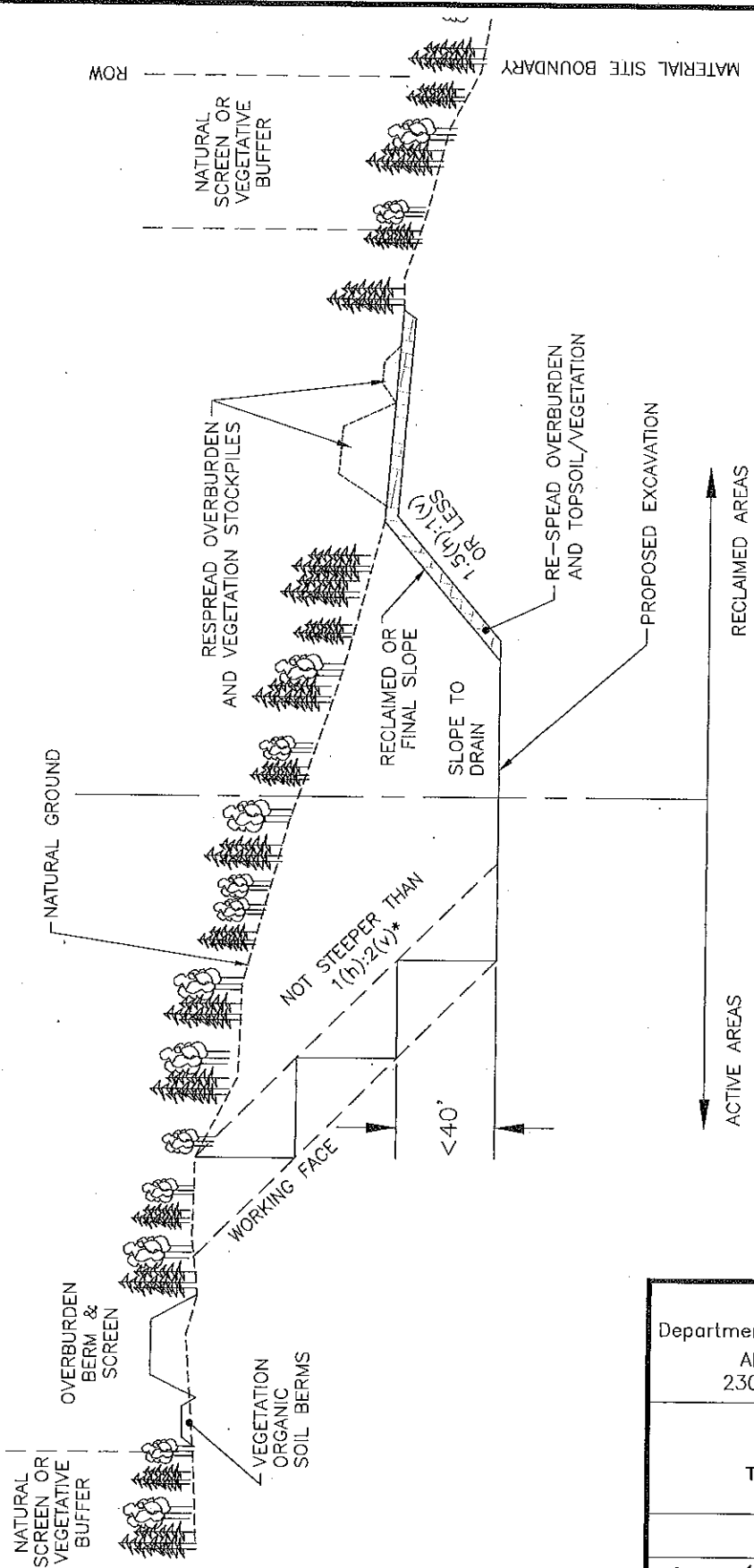
TYPICAL CROSS SECTION FOR EXCAVATION IN SOFT BEDROCK ON HILLSIDE
NOT TO SCALE

PRELIMINARY

NOTE: MATERIAL SITE DIMENSIONS VARY BY SITE. SEE TABLE FOR ACREAGE BY SITE.

STATE OF ALASKA Department of Transportation and Public Facilities APPLICANT/AGENT: State of Alaska 2301 Peger Rd. Fairbanks, Ak 99709	
ROAD TO TANANA 61759 TYPICAL MINING RECLAMATION PLAN: SOFT BEDROCK	
DATE: 12/21/2012	SHEET: 109 OF 110

T:\Industrial Roads Project Files\tanana Road\04_PSAE\DELIVERABLES TO 3PT\Deliverables\Material Site Permit Drawing-QUARRY_Tue, 18/Dec/12, 04:40pm



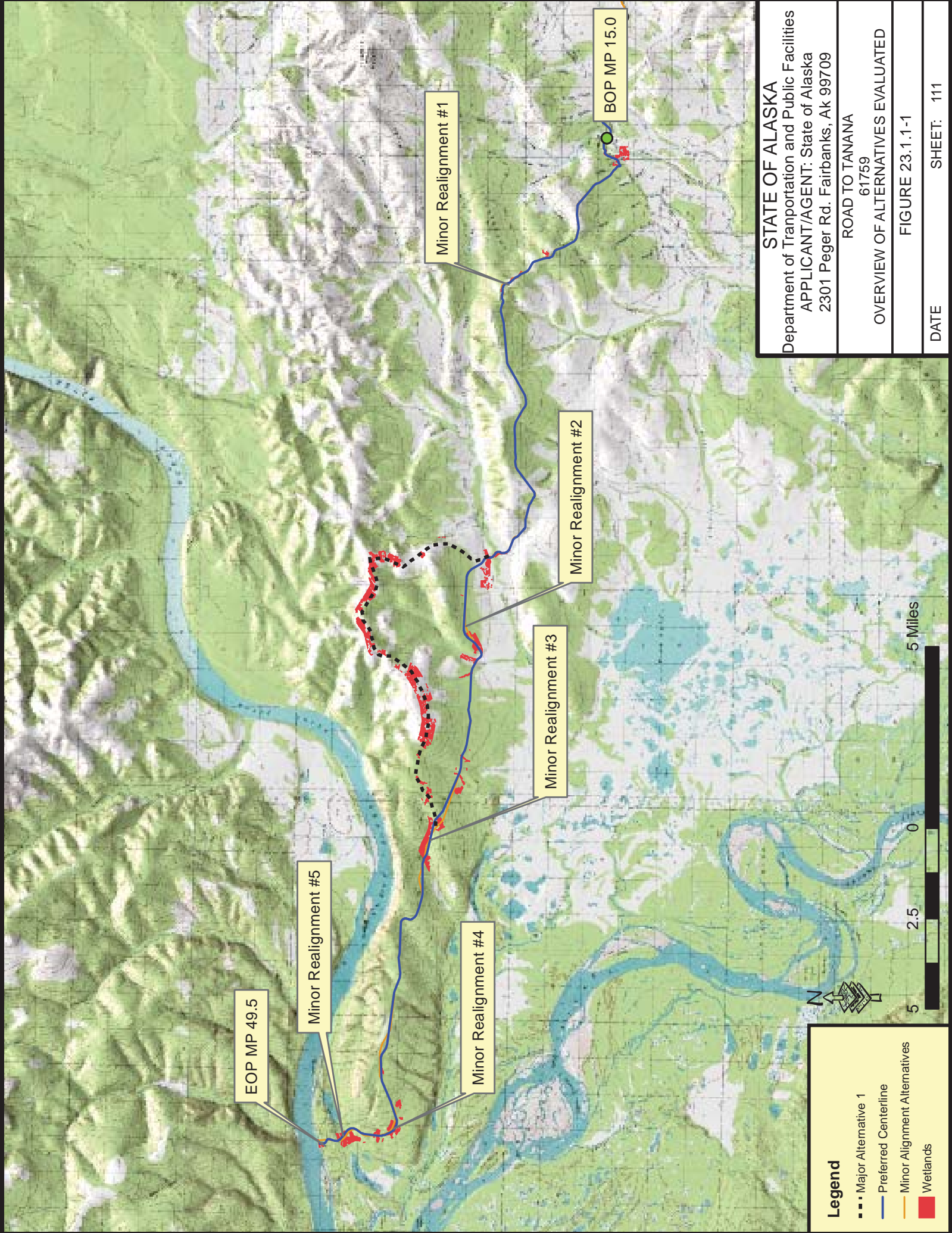
* MAXIMUM SLOPE ANGLE DEPENDS ON SITE-SPECIFIC PARAMETERS AND SHOULD BE DETERMINED FOR INDIVIDUAL SITES.

TYPICAL CROSS SECTION FOR QUARRY SITE
NOT TO SCALE

NOTE: MATERIAL SITE DIMENSIONS VARY BY SITE. SEE TABLE FOR ACREAGE BY SITE.

PRELIMINARY

STATE OF ALASKA Department of Transportation and Public Facilities APPLICANT/AGENT: State of Alaska 2301 Peger Rd. Fairbanks, Ak 99709	
ROAD TO TANANA 61759 TYPICAL MINING RECLAMATION PLAN: QUARRY SITES	
DATE: 12/21/2012	SHEET: 110 OF 110



EOP MP 49.5

Minor Realignment #5

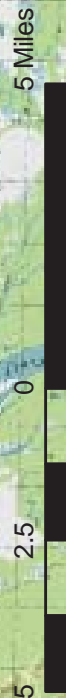
Minor Realignment #4

Minor Realignment #3

Minor Realignment #2

Minor Realignment #1

BOP MP 15.0



- Legend**
- - - Major Alternative 1
 - Preferred Centerline
 - Minor Alignment Alternatives
 - Wetlands

STATE OF ALASKA
 Department of Transportation and Public Facilities
 APPLICANT/AGENT: State of Alaska
 2301 Peger Rd. Fairbanks, Ak 99709

ROAD TO TANANA
 61759

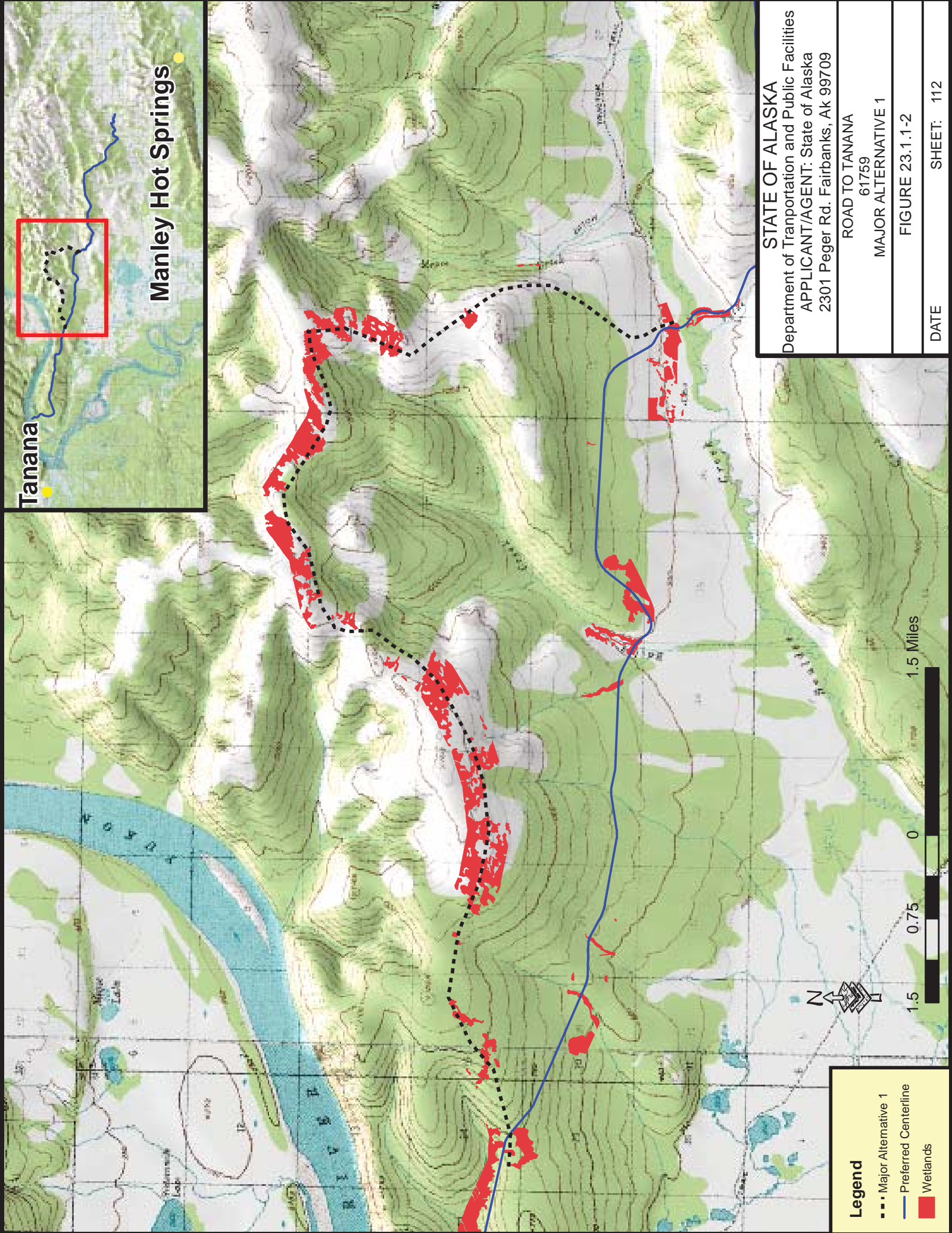
OVERVIEW OF ALTERNATIVES EVALUATED

FIGURE 23.1.1-1

DATE SHEET: 111

Tanana

Manley Hot Springs



Legend

- Major Alternative 1
- Preferred Centerline
- Wetlands

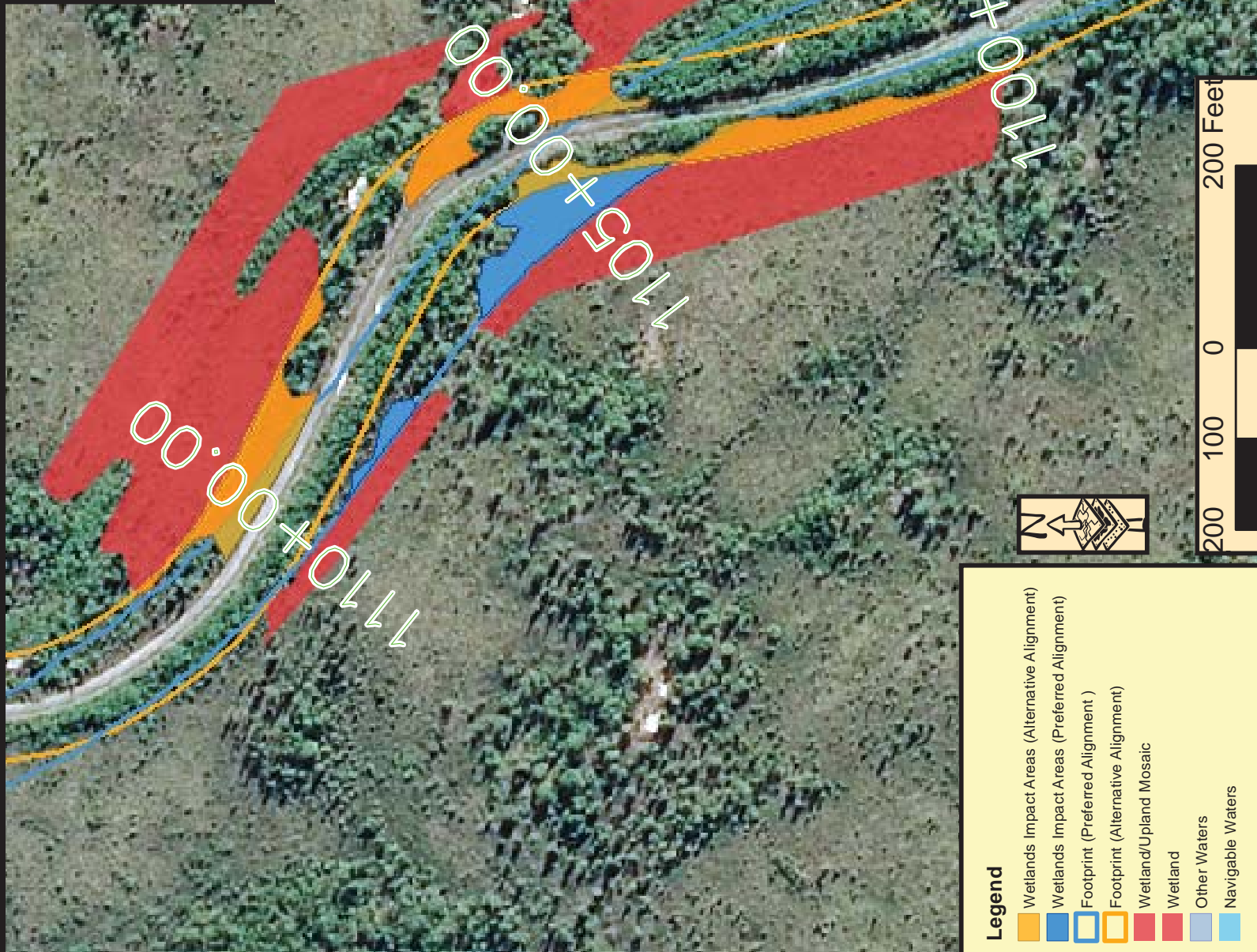


STATE OF ALASKA
 Department of Transportation and Public Facilities
 APPLICANT/AGENT: State of Alaska
 2301 Peger Rd. Fairbanks, Ak 99709

ROAD TO TANANA
 61759
 MAJOR ALTERNATIVE 1

FIGURE 23.1.1-2

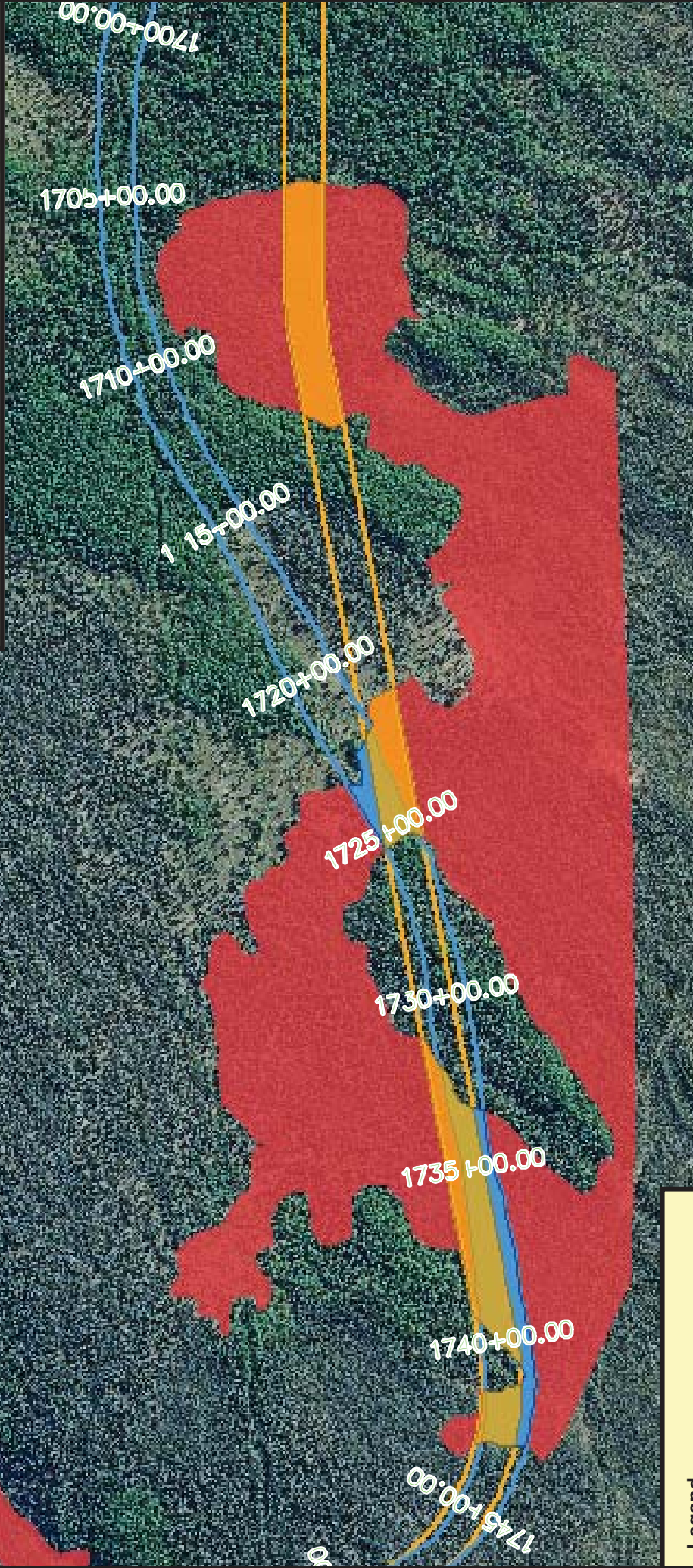
DATE SHEET: 112



Legend

	Wetlands Impact Areas (Alternative Alignment)
	Wetlands Impact Areas (Preferred Alignment)
	Footprint (Preferred Alignment)
	Footprint (Alternative Alignment)
	Wetland/Upland Mosaic
	Wetland
	Other Waters
	Navigable Waters

STATE OF ALASKA Department of Transportation and Public Facilities APPLICANT/AGENT: State of Alaska 2301 Peger Rd. Fairbanks, Ak 99709
ROAD TO TANANA 61759 MINOR ALTERNATIVE 1
FIGURE 23.1.1-3
DATE SHEET: 113

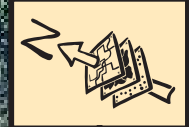


STATE OF ALASKA
 Department of Transportation and Public Facilities
 APPLICANT/AGENT: State of Alaska
 2301 Peger Rd. Fairbanks, Ak 99709

ROAD TO TANANA
 61759
 MINOR ALTERNATIVE 2

FIGURE 23.1.1-4

DATE SHEET: 114



Legend

- Wetlands Impact Areas (Alternative Alignment)
- Wetlands Impact Areas (Preferred Alignment)
- Footprint (Preferred Alignment)
- Footprint (Alternative Alignment)
- Wetland/Upland Mosaic
- Wetland
- Other Waters
- Navigable Waters



Legend

- Wetlands Impact Areas (Alternative Alignment)
- Wetlands Impact Areas (Preferred Alignment)
- Footprint (Preferred Alignment)
- Footprint (Alternative Alignment)
- Wetland/Upland Mosaic
- Wetland
- Other Waters
- Navigable Waters



STATE OF ALASKA
 Department of Transportation and Public Facilities
 APPLICANT/AGENT: State of Alaska
 2301 Peger Rd. Fairbanks, Ak 99709

ROAD TO TANANA
 61759
 MINOR ALTERNATIVE 3

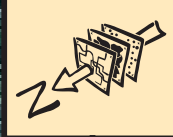
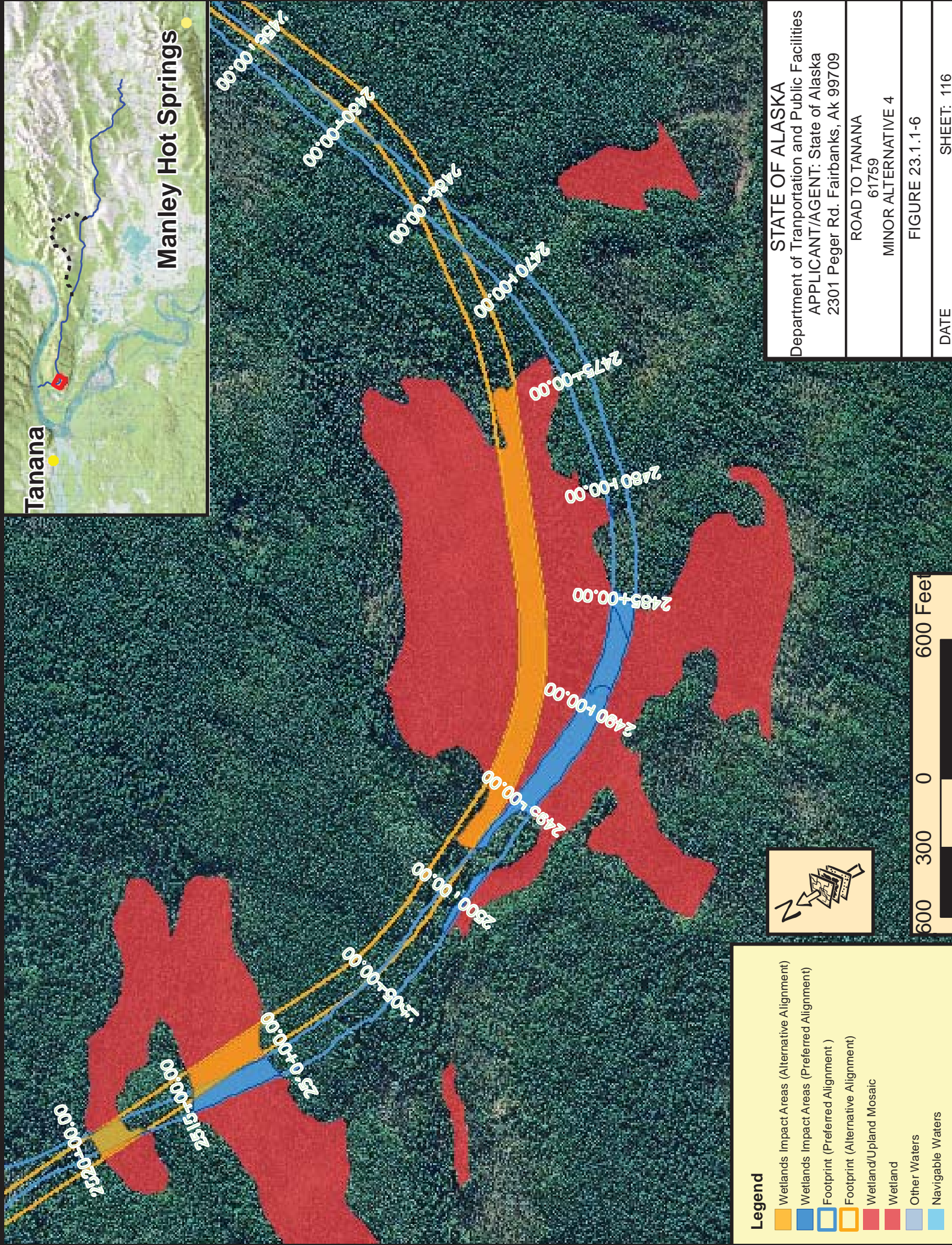
FIGURE 23.1.1-5

DATE SHEET: 115



Tanana

Manley Hot Springs



Legend

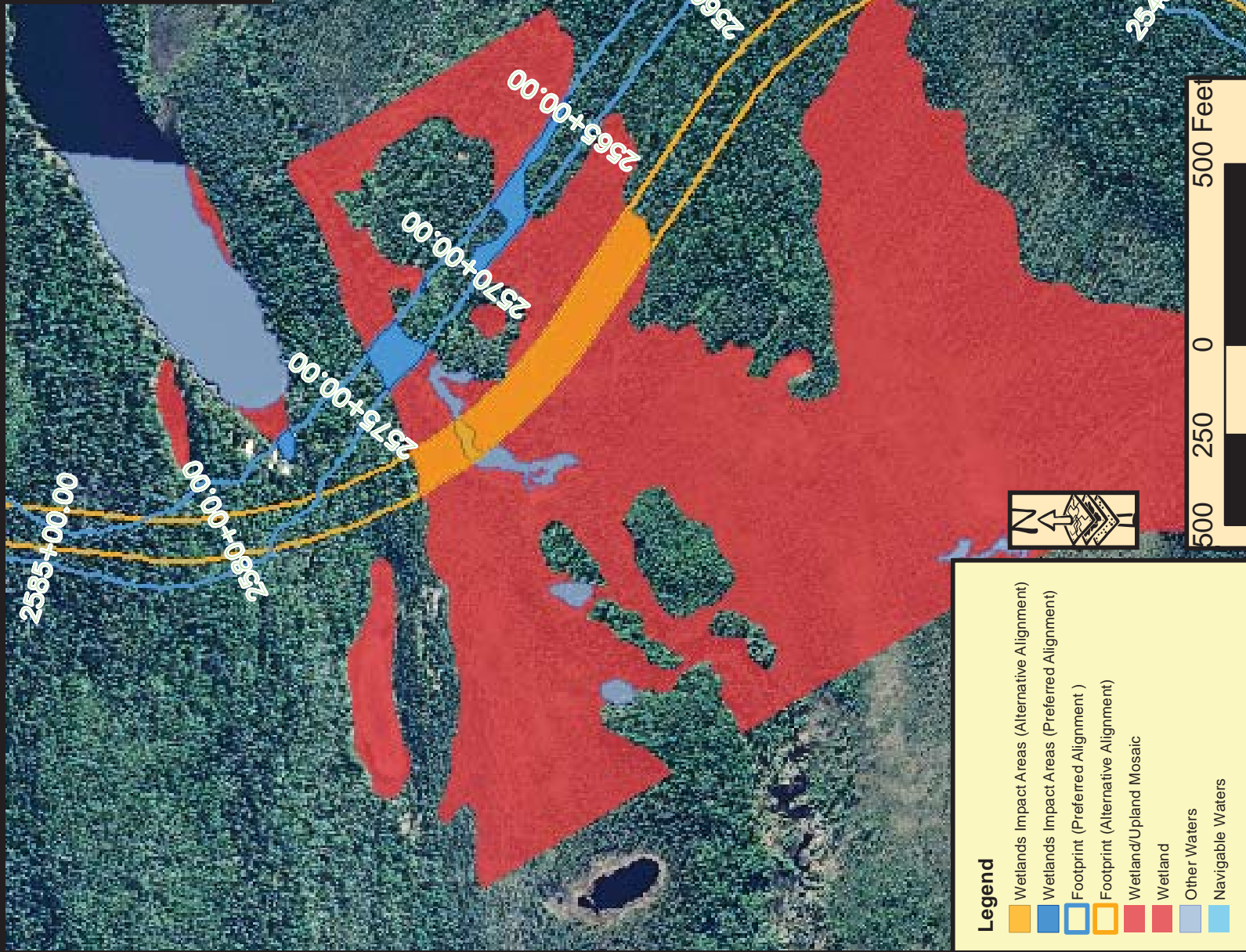
- Wetlands Impact Areas (Alternative Alignment)
- Wetlands Impact Areas (Preferred Alignment)
- Footprint (Preferred Alignment)
- Footprint (Alternative Alignment)
- Wetland/Upland Mosaic
- Wetland
- Other Waters
- Navigable Waters

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ROAD TO TANANA
 61759
 MINOR ALTERNATIVE 4

FIGURE 23.1.1-6

DATE SHEET: 116

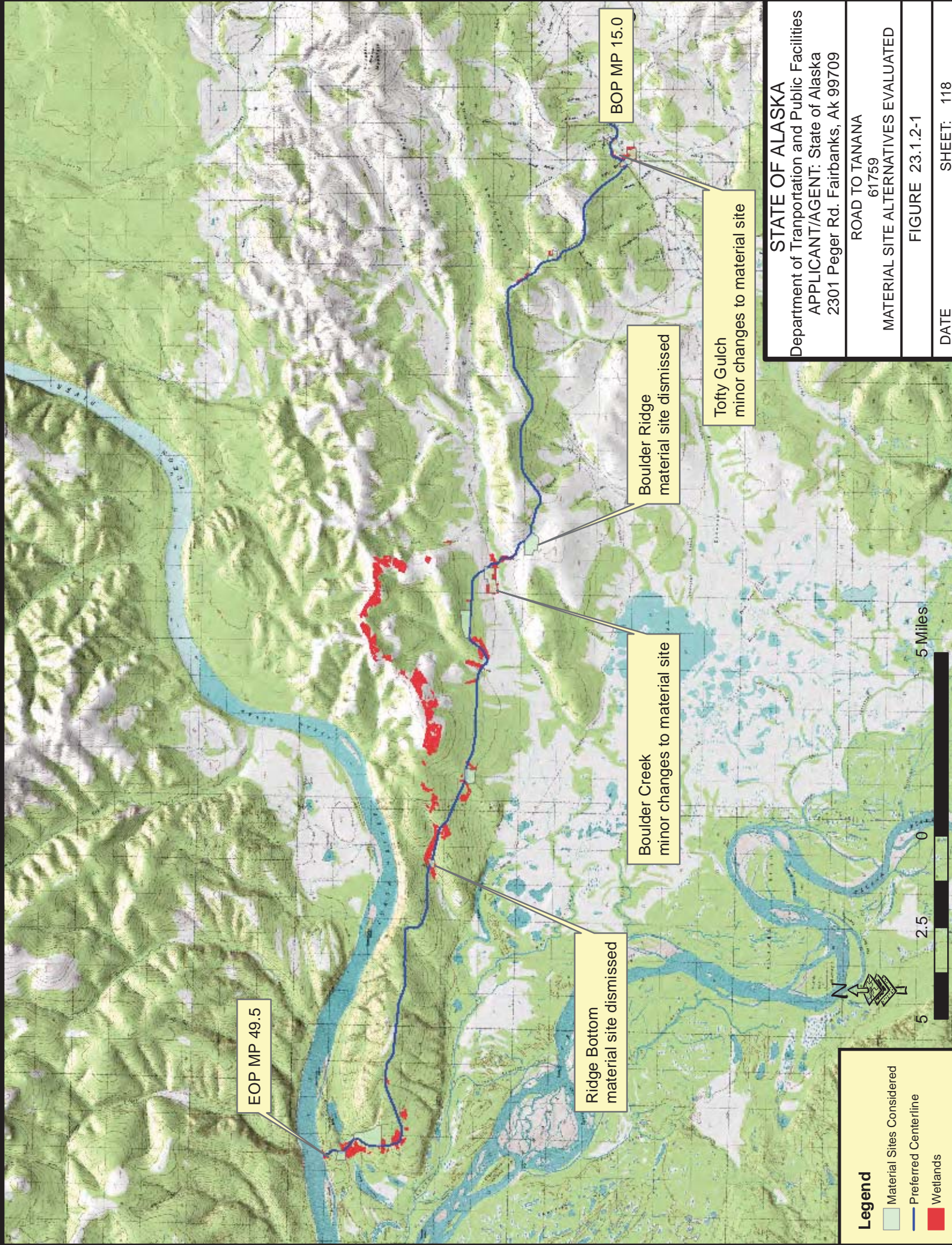


Legend

- Wetlands Impact Areas (Alternative Alignment)
- Wetlands Impact Areas (Preferred Alignment)
- Footprint (Preferred Alignment)
- Footprint (Alternative Alignment)
- Wetland/Upland Mosaic
- Wetland
- Other Waters
- Navigable Waters



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ROAD TO TANANA 61759 MINOR ALTERNATIVE 5
FIGURE 23.1.1-7
DATE SHEET: 117



EOP MP 49.5

Ridge Bottom
material site dismissed

Boulder Creek
minor changes to material site

Boulder Ridge
material site dismissed

Tofty Gulch
minor changes to material site

BOP MP 15.0

Legend

- Material Sites Considered
- Preferred Centerline
- Wetlands



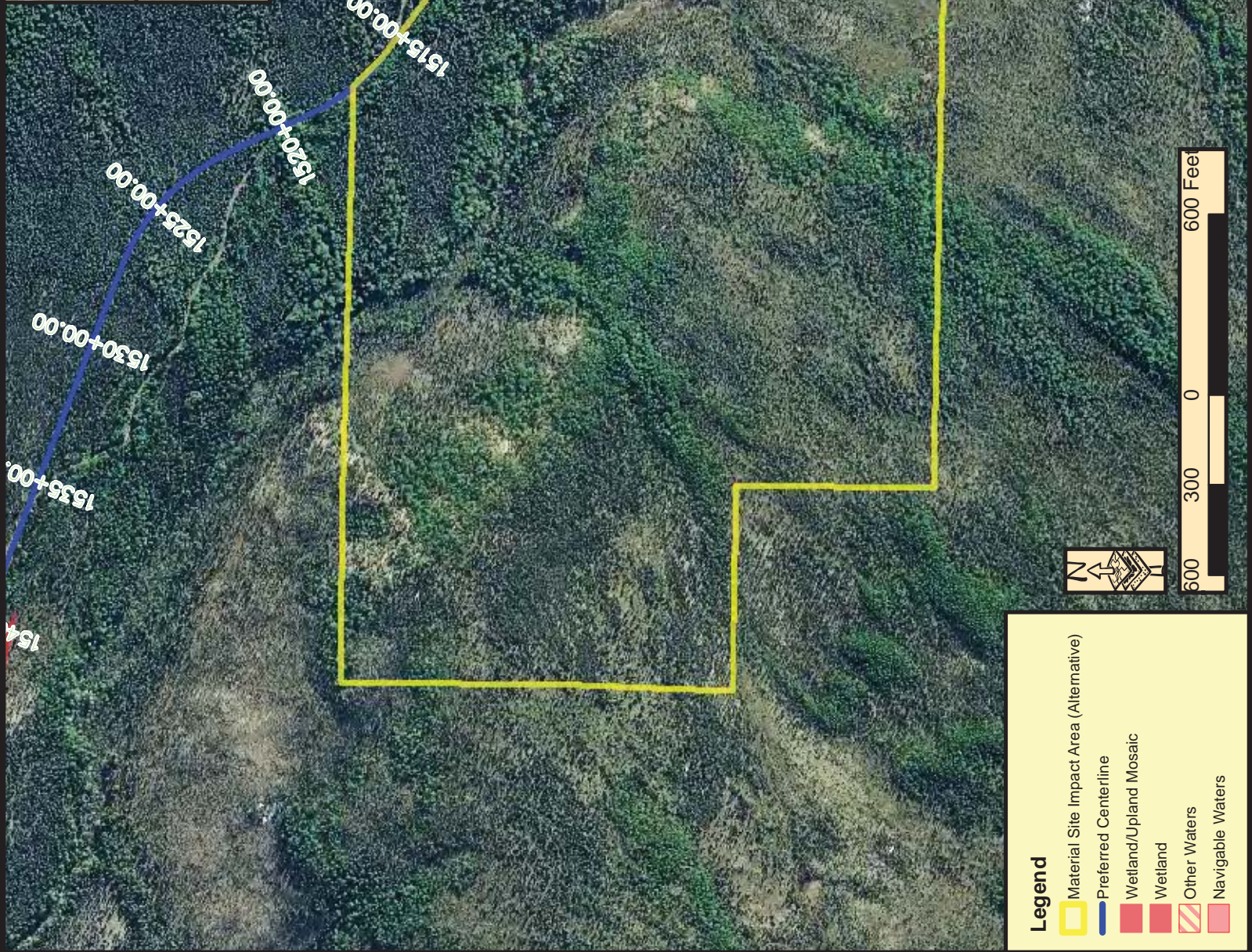
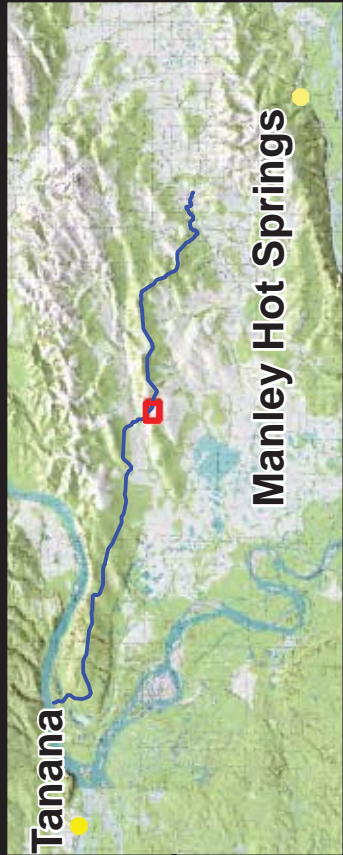
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ROAD TO TANANA
 61759

MATERIAL SITE ALTERNATIVES EVALUATED

FIGURE 23.1.2-1

DATE SHEET: 118



- Legend**
- Material Site Impact Area (Alternative)
 - Preferred Centerline
 - Wetland/Upland Mosaic
 - Wetland
 - Other Waters
 - Navigable Waters



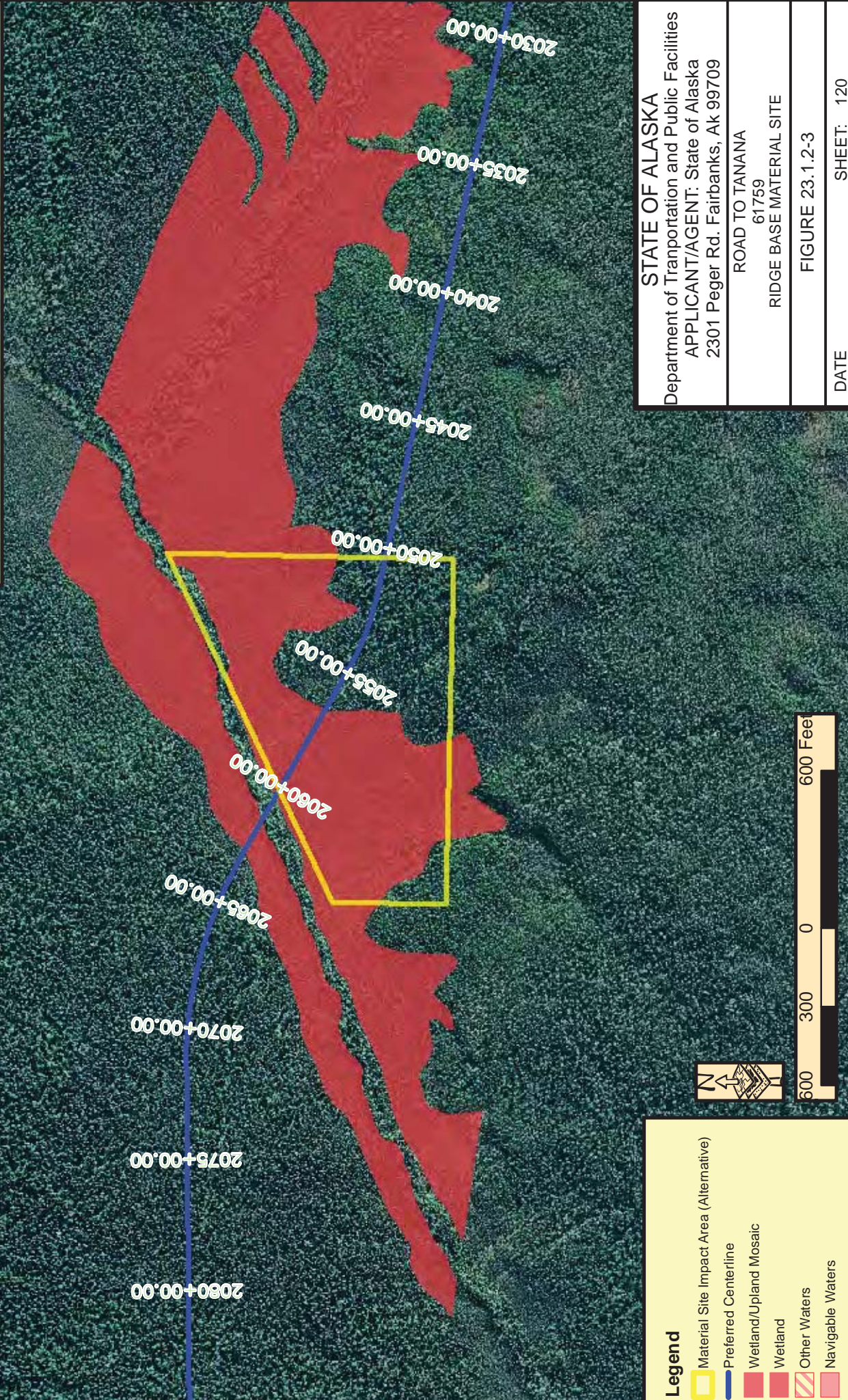
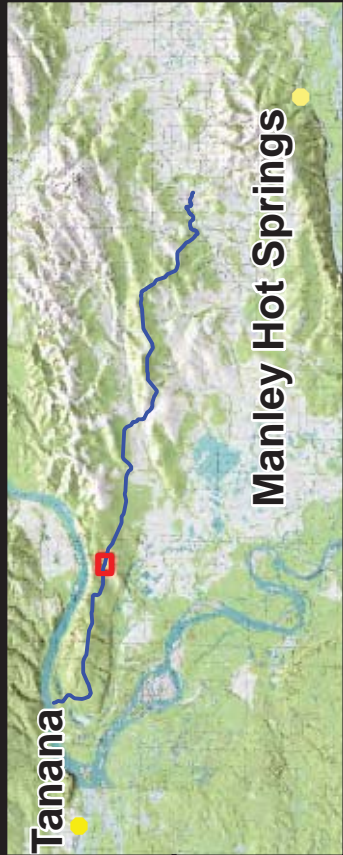
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ROAD TO TANANA
 61759

BOULDER RIDGE MATERIAL SITE

FIGURE 23.1.2-2

DATE SHEET: 119



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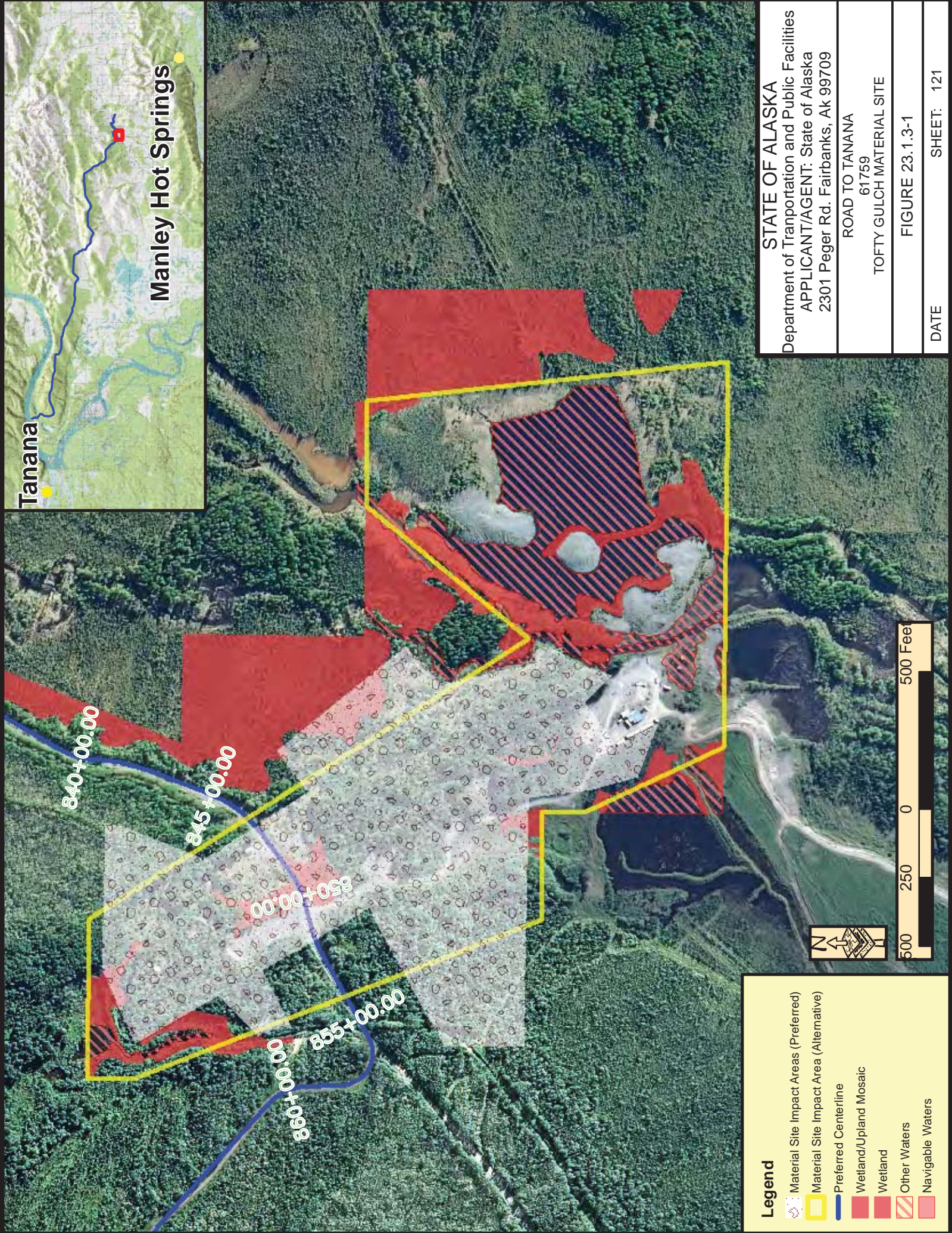
ROAD TO TANANA
 61759
 RIDGE BASE MATERIAL SITE

FIGURE 23.1.2-3

DATE SHEET: 120

Legend

- Material Site Impact Area (Alternative)
- Preferred Centerline
- Wetland/Upland Mosaic
- Wetland
- Other Waters
- Navigable Waters



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 ROAD TO TANANA
 61759
 TOFTY GULCH MATERIAL SITE
 FIGURE 23.1.3-1
 DATE SHEET: 121

Legend

- Material Site Impact Areas (Preferred)
- Material Site Impact Area (Alternative)
- Preferred Centerline
- Wetland/Upland Mosaic
- Wetland
- Other Waters
- Navigable Waters



Tanana

Manley Hot Springs

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



ROAD TO TANANA
 61759

BOULDER CREEK MATERIAL SITE

FIGURE 23.1.3-2

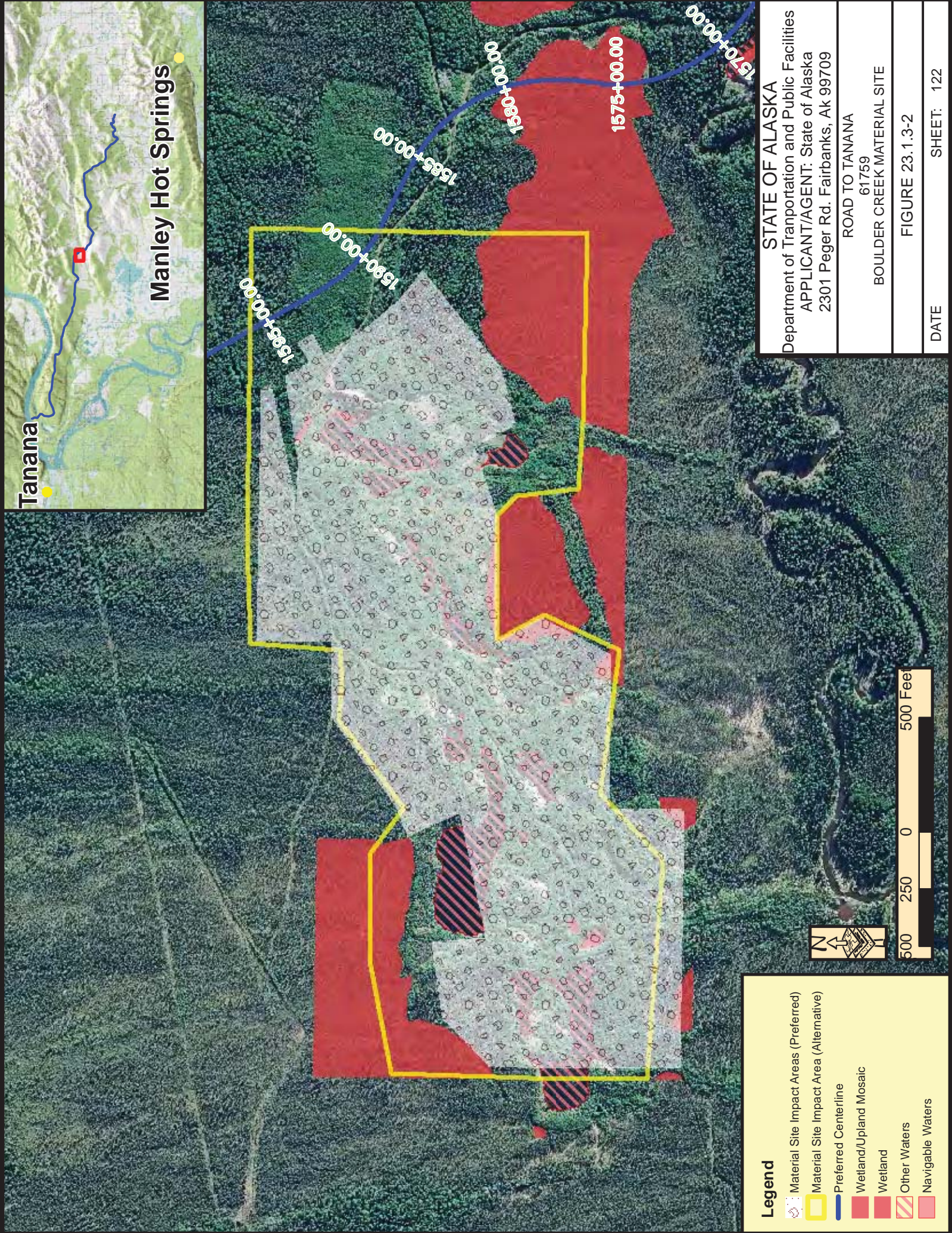
DATE SHEET: 122

Legend

-  Material Site Impact Areas (Preferred)
-  Material Site Impact Area (Alternative)
-  Preferred Centerline
-  Wetland/Upland Mosaic
-  Wetland
-  Other Waters
-  Navigable Waters



500 250 0 500 Feet



Introduction

This supplemental information document is provided to augment information found in the attached Engineering Form 4335, a permit application by the Alaska Department of Transportation and Public Facilities (ADOT&PF) to upgrade and extend a northwest-southeast access corridor from the existing Tofty Road, from northwest of Manley Hot Springs to the Yukon River, Alaska.

Information presented below is organized by the numbered block on the permit application for those blocks where insufficient room was available to answer the question. Sheets 1-110, which follow, are also an integral part of the application.

Application Block 15: Location of Project

Latitude and longitude in North American Datum 1983 (NAD83) for major facilities associated with the Road to Tanana Project (hereafter, Project) is presented in Table 15.1. Sheet 1 shows the general vicinity of the Project. Sheet 2 shows the Project Layout including the proposed alignment of the roads, material pads, turnouts, bridges, and parking facilities that will be constructed.

To facilitate review of the road and facilities, the plan view maps move sequentially along the alignment. Sheets 2A and 2B show the plan view sheet numbers that correspond to specific sections of the alignment and related facilities. To access a particular sheet along the alignment, the sheet labels on Sheet 2A and 2B are also hyperlinked to their respective plan view maps.

TABLE 15.1 Project Features by Latitude and Longitude, Decimal Degrees (DD)

Mile Post	Facility Type	Drawing Type(s)	Stream Type	Station Feet (Begin/End)	Latitude	Longitude	Sheet number
15.05	Begin – Existing Road Drainage Improvements	Road Typical A-A		79500 to 85500	65.089142	-150.825793	3, 4, 5
15.59	Sullivan Creek Crossing	Culvert Typical B-B	Non-Fish	82318.0	65.090761	-150.893828	4
16.09	Tofty Gulch Crossing	Culvert Typical B-B	Non-Fish	84950.0	65.085757	-150.902994	5
16.10	Tofty Gulch Material Site	Cross Sections C-C, D-D, E-E (Typical Fuel)		84997.1	65.085716	-150.903310	5
16.19	Construct New Road Over Existing Trail	Road Typical F-F		85500 to 92000	65.085126	-150.906235	5, 6, 7, 8
17.42	Construct New Road Over Existing Trail	Road Typical G-G		92000 to 93500	65.097726	-150.933808	8
17.71	Construct New Road Over Existing Trail	Road Typical F-F		93500 to 98000	65.100407	-150.941169	8, 9, 10
18.56	Construct New Road Over Existing Trail	Road Typical G-G		98000 to 99300	65.101275	-150.969199	10
18.81	Construct New Road Over Existing Trail	Road Typical F-F		99300 to 101600	65.102120	-150.977387	10, 11

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Mile Post	Facility Type	Drawing Type(s)	Stream Type	Station Feet (Begin/End)	Latitude	Longitude	Sheet numbers
19.24	Construct New Road Over Existing Trail	Road Typical G-G		101600 to 102500	65.107288	-150.985420	11, 12
19.41	Construct New Road Over Existing Trail	Road Typical F-F		102500 to 107000	65.109592	-150.987461	12, 13
19.83	Ridge Top Material Site	Cross Sections H-H, I-I, J-J (Typical Access) & E-E (Typical Fuel)		104712.5	65.113981	-150.995626	12
20.27	Construct New Road Over Existing Trail	Road Typical G-G		107000 to 108000	65.119492	-151.001796	13, 14
20.45	Construct New Road Over Existing Trail	Road Typical F-F		108000 to 111400	65.120820	-151.007466	14, 15, 16
21.10	Turnout #1	Typical K-K		111400 to 112100	65.128278	-151.019663	15
21.23	Construct New Road Over Existing Trail	Road Typical F-F		112100 to 114000	65.130066	-151.021181	15, 16
21.59	Construct New Road Over Existing Trail	Road Typical G-G		114000 to 115700	65.131251	-151.032705	16
21.91	Construct New Road Over Existing Trail	Road Typical F-F		115700 to 116200	65.131366	-151.043408	16, 17
22.01	Turnout #2	Typical K-K		116200 to 116900	65.131533	-151.046598	17
22.14	Construct New Road Over Existing Trail	Road Typical F-F		116900 to 119200	65.131087	-151.051018	17, 18
22.58	Construct New Road Over Existing Trail	Road Typical G-G		119200 to 120600	65.129996	-151.065694	18
22.84	Construct New Road Over Existing Trail	Road Typical F-F		120600 to 125800	65.129574	-151.074729	18, 19, 20
23.83	Construct New Road Over Existing Trail	Road Typical G-G		125800 to 127400	65.126058	-151.106778	20
24.13	Turnout #3	Typical K-K		127400 to 128100	65.123831	-151.115718	20
24.26	Construct New Road Over Existing Trail	Road Typical F-F		128100 to 141500	65.122857	-151.119629	20-25
25.29	American Creek Crossing	Culvert Typical B-B	Non-Fish	133540.0	65.124708	-151.151560	22
26.80	Turnout #4	Typical K-K		141500 to 142200	65.122359	-151.201136	25
26.93	Construct New Road Over Existing Trail	Road Typical F-F		142200 to 150800	65.121168	-151.204692	25-27
28.56	Construct New Road Over Existing Trail	Road Typical G-G		150800 to 151000	65.121514	-151.254398	27, 28
28.60	Construct New Road	Road Typical F-F		151000 to	65.121835	-151.255449	28, 29

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Mile Post	Facility Type	Drawing Type(s)	Stream Type	Station Feet (Begin/End)	Latitude	Longitude	Sheet numbers
	Over Existing Trail			156400			28,29
29.62	Construct New Road Over Existing Trail	Road Typical G-G		156400 to 156650	65.131899	-151.275843	29
29.67	Boulder Creek Bridge	Bridge Sheet 85	Fish	156650 to 156755	65.132333	-151.277093	29
29.69	Construct New Road Over Existing Trail	Road Typical G-G		156755 to 157200	65.132506	-151.277637	29,30
29.77	Construct New Road Over Existing Trail	Road Typical F-F		157200 to 159000	65.133371	-151.279624	30
30.11	New Road Bed	New Road Typical N-N		159000 to 166800	65.133371	-151.279624	30-34
30.16	Boulder Creek Material Site	Cross Sections L-L, M-M, J-J (Typical Access) & E-E (Typical Fuel)		159230.1	65.137655	-151.286127	30
31.46	Turnout #5	Typical K-K		166100 to 166800	65.143679	-151.324176	34
31.59	New Road Bed	New Road Typical Q-Q		166800 to 173900	65.143744	-151.328720	34, -37
31.85	Bailey Creek Ridge Material Site	Cross Sections O-O, P-P, J-J (Typical Access) & E-E (Typical Fuel)		168162.4	65.143870	-151.337566	34
32.94	New Road Bed	New Road Typical Q-Q		173900 to 174300	65.137124	-151.368277	37,38
33.30	Bailey Creek Crossing	Culvert Typical R-R	Fish Passage	175810.0	65.138752	-151.378494	38
33.65	Bailey Creek Tributary Crossing	Culvert Typical B-B	Non-Fish	177660.0	65.140639	-151.389454	39
34.41	Turnout #6	Typical K-K		181700 to 182400	65.140889	-151.415756	40
34.55	New Road Bed	New Road Typical N-N		182400 to 185400	65.141167	-151.420248	40,41
34.65	East Long Lake Tributary Crossing	Culvert Typical B-B	Non-Fish	182976.0	65.141283	-151.424002	40
35.11	Turnout #7	Typical K-K		185400 to 186100	65.140587	-151.439480	41
35.25	New Road Bed	New Road Typical Q-Q		186100 to 187000	65.140885	-151.443971	41,42
36.34	Bare Rock Material Site	Cross Sections S-S, T-T, J-J (Typical Access) & E-E (Typical Fuel)		191869.0	65.143853	-151.480279	43

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Mile Post	Facility Type	Drawing Type(s)	Stream Type	Station Feet (Begin/End)	Latitude	Longitude	Sheet numbers
36.56	Middle Long Lake Tributary Crossing	Culvert Typical B-B	Non-Fish	193055.0	65.144876	-151.487536	44
39.03	West Long Lake Tributary Crossing	Culvert Typical R-R	Fish Passage	206095.0	65.157476	-151.565764	48
44.34	New Road Bed	New Road Typical Q-Q		234100 to 234500	65.169968	-151.734680	57
44.41	New Road Bed	New Road Typical N-N		234500 to 252300	65.170076	-151.737268	57-64
47.36	Unnamed Creek Crossing #1	Culvert Typical B-B	Non-Fish	250080.0	65.170020	-151.828486	63
47.79	New Road Bed	New Road Typical Q-Q		252350 to 252600	65.176129	-151.829388	64
47.82	Unnamed Creek Crossing #2	Culvert Typical B-B	Non-Fish	252485.0	65.176517	-151.829448	64
47.84	New Road Bed	New Road Typical N-N		252600 to 253600	65.176810	-151.829251	64
48.03	New Road Bed	New Road Typical Q-Q		253600 to 253900	65.179499	-151.828293	64
48.05	Yukon Bluffs Material Site	Cross Sections U-U, V-V, J-J (Typical Access) & E-E (Typical Fuel)		253721.5	65.179793	-151.827925	64,66
48.09	New Road Bed	New Road Typical N-N		253900 to 257900	65.180198	-151.827279	66,67
48.70	Twelve-mile Lake Creek Crossing	Culvert Typical R-R	Fish Passage	257110.0	65.187082	-151.831245	67
48.85	New Road Bed	New Road Typical Q-Q		257950 to 258050	65.188597	-151.835310	67
48.87	New Road Bed	New Road Typical N-N		258050 to 259000	65.188836	-151.835627	67
48.92	Yukon River Material Site	Cross Sections W-W, X-X, J-J (Typical Access) & E-E (Typical Fuel)		258294.3	65.189406	-151.836137	67
49.05	New Road Bed	New Road Typical Q-Q		259000 to 259500	65.191363	-151.835173	67
49.15	New Road Bed	New Road Typical N-N		259500 to 260460	65.192698	-151.834541	67,68
49.32	Parking Area	Typical Y-Y		260460 to 260890	65.195665	-151.838842	68
49.41	New Road Bed	New Road Typical N-N		260890 to 260990	65.195665	-151.838842	68

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Mile Post	Facility Type	Drawing Type(s)	Stream Type	Station Feet (Begin/End)	Latitude	Longitude	Sheet number
49.42	End of Project to Yukon River Access	New Road Typical Z-Z		260990 to 261121	65.195665	-151.838842	68

Application Block 16: Other Location Descriptions, if Known

The project area is located on the U.S. Geological Survey (USGS) quadrangle maps:

- Tanana 1:250,000
- Tanana 1:63,360 A-2, A-3, A-4

Starting at the junction of the Elliott Highway, the road is located within Section 16, 9, 4, and 3, Township 2 North, Range 15 West; it then crosses into Sections 34, 33, 28, 21, 20, 18, and 19, Township 3 North, Range 15 West; it then crosses into Sections 13, 14, 15, 16, 17, 8, and 18, Township 3 North, Range 16 West; it then crosses into sections 13, 12, 11, 10, 3, and 4, Township 3 North, Range 17 West; it then crosses into section 33, 32, and 31, Township 4 North, Range 17 West; it then crosses into Section 36, Township 4 North, Range 18 West; it then crosses into Sections 1 and 2, Township 3 North, Range 18 West; it then crosses into Sections 35 and 34, Township 4 North, Range 18 West; it then crosses into Sections 3, 4, and 5, Township 3 North, Range 18 West; it then crosses into Sections 32, 31, and 30, Township 4 North, Range 18 West; it then crosses into Sections 25, 26, 35, 27, 28, 29, and 30 Township 4 North, Range 19 West; it then crosses into Sections 25, 24, 23, 22, 21, 20, 17, and 18, Township 4 North, Range 20 West; it then crosses into Sections 13, 14, 15, 22, 21, 16, 9, and 4. Township 4 North, Range 21 West.

**TABLE 16.1 Road to Tanana Project Major Facility Locations
(Fairbanks Meridian – Township, Range, and Sections)**

Facility	Township	Range	Sections
Existing and New Road Construction	2N	15W	3, 4, 9, 16
	3N	15W	18, 19, 20, 21, 28, 33, 34
	3N	16W	8, 13, 14, 15, 16, 17, 18
	3N	17W	3, 4, 10, 11, 12, 13
	4N	17W	31, 32, 33
	4N	18W	36
	3N	18W	1, 2
	4N	18W	34, 35
	3N	18W	3, 4, 5
	4N	18W	30, 31, 32
	4N	19W	25, 26, 27, 28, 29, 30, 35
	4N	20W	16, 17, 18, 20, 21, 22, 23, 24, 25
Tofty Gulch Material Site	4N	21W	4, 9, 13, 14, 15, 16, 21, 22
	3N	17W	13
	3N	16W	18

Facility	Township	Range	Sections
Ridge Top Material Site	3N	17W	3
Boulder Creek Material Site	4N	18W	30, 31
Boulder Creek Bridge	4N	18W	31
Bailey Creek Ridge Material Site	4N	19W	25, 26
Bare Rock Material Site	4N	19W	29, 30
Yukon Bluffs Material Site	4N	21W	9, 10, 15, 16
Yukon River Material Site	4N	21W	9

Application Block 18: Nature of Activity (Description of project, includes all features)

The project consists of:

- Upgrade the last two miles of the existing Tofty Road, as well as an additional 14.5 miles of existing roads and trails that extend past the current terminus of Tofty Road (beginning at approximately mile post 15)
- Install a new bridge at Boulder Creek (#2297)
- Construct 19.34 miles of new road beginning at mile post 29.5
- Expand two existing material sites
- Create five new material sites
- Install 3 new fish passage pipes
- Drainage improvements
- Vegetation clearing
- Construct a public parking area near the road terminus at the Yukon River
- Construct a barge landing approach to OHW limits of the Yukon River.
- Acquire approximately 620 acres for road right-of-way.

Application Block 19: Project Purpose

The *purpose* of the Road to Tanana Project is to extend the existing highway system to the Yukon River near Tanana. The project would improve approximately 16.5 miles of existing road and unimproved trails, and construct 19.34 miles of new road across undeveloped terrain to provide an all-season link to the south bank of the Yukon River.

The following project *needs* have been identified:

Extending the highway to the Yukon River would provide the opportunity for residents of Tanana to enjoy more affordable and efficient year-round transportation for passengers, commodities and public safety support. Nearby road access would lower the cost of living in Tanana as well as support economic growth through increased business and employment opportunity for its residents. As Tanana is an historic hub for Yukon and Tanana River barge transportation and commerce, other Yukon River communities may also benefit economically by a reduction of fuel and freight costs to and from Tanana.

Application Block 20: Reason for Discharge

As noted in Application Block 19, there are several purposes and needs an all-season road in this area will support or fulfill. To build an all-season road in this region of Alaska, the deposition of dredged or fill material into waters of the US to construct sections of roadway embankment, turnouts, material sites, equipment staging and maintenance areas and appurtenant crossing structures is unavoidable. Fill material will be placed to construct the roadway embankment, turnouts, and appurtenant structures along the last two miles of the existing Tofty Road to the south bank of the Yukon River, near the village of Tanana (located on the north bank).

Several waterways along the proposed road are tributaries of navigable waters. One, Boulder Creek, will be crossed by a new bridge. Others crossings will use appropriately designed structures to maintain flows. No fill is anticipated in navigable waters of the U.S.

Application Block 21: Types of Material Being Discharged & the Amount of Each Type in Cubic Yards

Sheets 1-110 include site maps, plan views, and cross-sections for all gravel structures, including the roads, turnouts, material sites, and the structural components (bridges and culvert crossings). Estimates of cubic yards of fill are shown in Table 21.1 below. All fill will be native rock (clean) from local sources.

TABLE 21.1 Discharge Amounts by Major Facility

Facility Name	Total Footprint (acres)	Total Footprint in Waters of the US or Wetlands (acres)	Total Cubic Yards of Fill (cyds)	Cubic Yards of Fill in Water of the US or Wetlands (cyds)	Sheet number
Existing Road – Drainage Improvements: <u>Includes:</u> <i>Sullivan Creek Crossing</i> <i>Tofty Gulch Crossing</i>	18.4	3.0	41,000 397 75	6,500 88 17	4, 5
Existing Road – Drainage Improvements ROW Vegetation Clearing (30' Buffer)	7.2	1.5	Incidental Fallback Only	N/A	N/A
Existing Road – New Road Bed Over Existing Roads/Trails: <u>Includes:</u> <i>American Creek Crossing</i>	188.4	4.8	705,000 48	38,500 11	20-25
Existing Road – New Road Over Existing Roads/Trails ROW Vegetation Clearing (30' Buffer)	101.4	4.2	Incidental Fallback Only	N/A	N/A
New Road Bed/Parking Area:	258.2	13.5	954,000	52,500	30-68

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Facility Name	Total Footprint (acres)	Total Footprint in Waters of the US or Wetlands (acres)	Total Cubic Yards of Fill (cyds)	Cubic Yards of Fill in Water of the US or Wetlands (cyds)	Sheet numbers
<u>Includes:</u> Bailey Creek Crossing Bailey Creek Tributary East Long Lake Tributary Middle Long Lake Trib. West Long Lake Tributary Unnamed Creek #1 Unnamed Creek #2 Twelve-Mile Lake Creek			397 48 48 75 192 27 25 108	121 11 11 17 50 6 5 24	38 39 40 44 48 63 64 67
New Road Bed/Parking Area Vegetation Clearing (30' Buffer)	141.4	8.2	Incidental Fallback Only	N/A	N/A
Material Sites Combined: <u>Includes:</u> Access Roads Fuel Storage Areas Mining Areas Overburden Storage Work Pad	414.5 5.3 0.2 273.8 92.1 43.1	13.3 0.0 0.0 10.6 1.6 1.1	See Table 21.2	See Table 21.2	5, 12, 30, 34, 43, 64, 66, 67
TOTALS	1,131.1	48.5	1,718,864	99,895	
Bridge Over Waters of the U.S. (Abutments included in road bed estimates above)	0.2	0.2	See Table 21.2	See Table 21.2	N/A
Retained Vegetative Screens/Buffers within Planned Right-of-Way	231.5	67.7 (Retained, not filled/cleared)	N/A	N/A	N/A
PROJECT TOTAL	1,131.1	48.5	1,718,864	99,895	

TABLE 21.2 Discharge by Material Site

Facility Name	Total Footprint (acres)	Total Footprint in Waters of the US or Wetlands (acres)	Total Cubic Yards of Fill (cyds)	Cubic Yards of Fill in Water of the US or Wetlands (cyds)	Sheet numbers
Tofty Gulch Material Site (No Dedicated Access Roads)	34.3	1.8	N/A - Cut	N/A - Cut	5
Ridge Top Material Site North Access Road South Access Road	22.8	3.9	N/A - Cut 593 1,244	N/A - Cut 0 0	12
Boulder Creek Material Site	78.2	6.8	N/A - Cut	N/A - Cut	30

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Facility Name	Total Footprint (acres)	Total Footprint in Waters of the US or Wetlands (acres)	Total Cubic Yards of Fill (cyds)	Cubic Yards of Fill in Water of the US or Wetlands (cyds)	Sheet numbers
North Access Road South Access Road			3,562 620	0 0	30
Boulder Creek Bridge Excavated from Floodplain Fill in Floodplain Cut Below OHWM Fill Below OHWM Rip Rap Below OHWM	0.02	0.0 (Elevated Above)	639 84 511 11 800	639 84 511 11 800	29
Bailey Creek Ridge Material Site East Access Road West Access Road	83.5	0.0	N/A - Cut 587 1,719	N/A - Cut 0 0	34
Bare Rock Material Site East Access Road West Access Road	47.4	0.7	N/A - Cut 1,813 695	N/A - Cut 0 0	43
Yukon Bluffs Material Site North Access Road South Access Road	121.5	0.2	N/A - Cut 616 1,785	N/A - Cut 0 0	64,66
Yukon River Material Site North Access Road South Access Road	27.0	0.0	N/A - Cut 527 1,618	N/A - Cut 0 0	67

Application Block 22: Surface Area in Acres of Wetlands or Other Waters Filled

The Preliminary Jurisdictional Determination, Road to Tanana Project (Three Parameters Plus, Inc. 2012) contains additional maps, data, and descriptions of the wetland and non-wetland natural resources in the project area. Of the area evaluated, approximately 13% were mapped as wetlands or other potentially regulated Waters of the U.S. As shown in Table 21.1, the project footprint in wetlands and other waters of the U.S. is just over 5% of the total project footprint. Sheets 1-109 show the locations and types of fills and structures needed to build the proposed all-season road.

Impacts from the existing road improvements and new road bed are shown in Table 21.1 above with additional detail on material sites and the Boulder Creek Bridge shown in Table 21.2. USACE reviews of material sites require additional information, which is shown in Table 22.1 below. This table shows ADOT&PF's current expectations for site specific impacts at each of the material sites designated on the attached sheets.

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TABLE 22.1 Expected Material Site Impacts By Type of Impact

Material Site Name	Miles to/from Manley Hot Springs (Straight Line to Center-point)	Approx. Mile Post Tofty Road	Material Type (Dry is above water table; wet is below water table)	Total Impact Area (acres) ^a	Wetland or Waters of the US Impact Area (acres) ^a	Plan View & Cross Section Sheet Numbers	Reclamation Plan Typical Sheet Number(s)
Tofty Gulch Material Site	9.7	15.91	Dry/Wet; gravel tailings for surfacing	34.3	1.8	Sheet 74 Sheet 75 Sheet 76	Sheet 107 Sheet 108
Ridge Top Material Site	13.1	19.7	Dry; Quarry, Soft Bedrock; embankment material	22.8	3.9	Sheet 80 Sheet 81 Sheet 82 Sheet 83	Sheet 107 Sheet 109 Sheet 110
Boulder Creek Material Site	21.5	29.92	Dry/Wet; gravel tailings for surfacing	78.2	6.8	Sheet 83 Sheet 86 Sheet 87 Sheet 88	Sheet 107 Sheet 108
Bailey Creek Ridge Material Site	22.9	31.82	Dry; Soft Bedrock; embankment material	83.5	0.0	Sheet 83 Sheet 90 Sheet 91 Sheet 92	Sheet 108 Sheet 109
Bare Rock Material Site	26.7	36.17	Dry/Wet; Quarry; embankment material & crushed aggregate for surfacing	47.4	0.7	Sheet 83 Sheet 96 Sheet 97 Sheet 98	Sheet 107 Sheet 108 Sheet 110
Yukon Bluffs Material Site	36.8	47.73	Dry/Wet; embankment material	121.5	0.2	Sheet 83 Sheet 99 Sheet 100 Sheet 101	Sheet 107 Sheet 108
Yukon River Material Site	37.6	48.67	Dry/Wet; Silty Sand and Sandy Silt	27.0	0.0	Sheet 83 Sheet 102 Sheet 103 Sheet 104	Sheet 107 Sheet 108 Sheet 109
TOTALS	N/A	N/A	N/A	414.5	13.3	N/A	N/A

Notes: a. Rounding errors may result in subtotal/total discrepancies.

Two of the material sites that will involve wetland/waters impacts have been historically influenced by prior placer mining and related activity. Figure 22.1 shows the general perimeter of the Boulder Creek Material Site in yellow over aerial photography, with the proposed mining/disturbance area highlighted in green. Figure 22.2 shows the Tofty Material Site, which has also been historically disturbed.

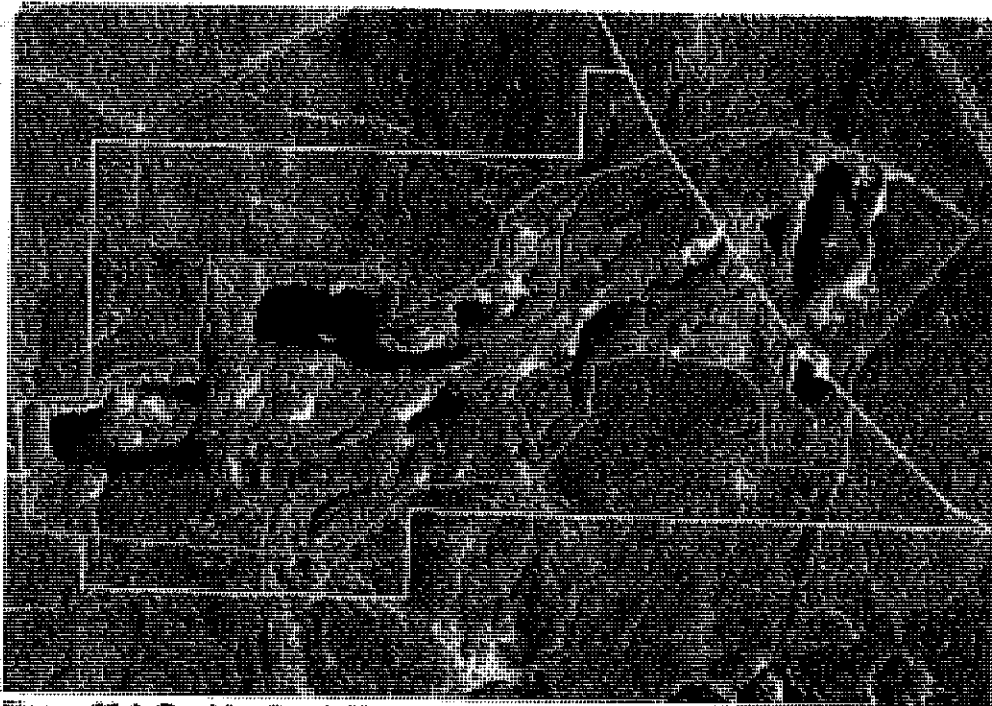


Figure 22.1 Boulder Creek Material Site

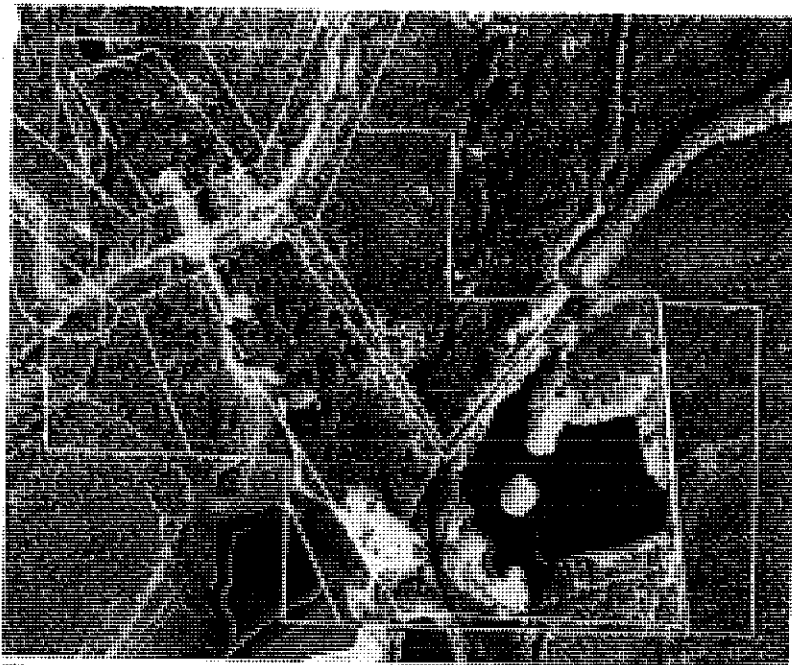


Figure 22.2 Tofty Material Site

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Wetland and waterbody impacts anticipated from the project have been evaluated by wetland scientists using two classification systems. The first, used by the US Fish and Wildlife Service (USFWS) as the classification system of National Wetlands Inventory (NWI) program, is referred to as the Cowardin Classification. Table 22.2 below reflects the maximum anticipated impacts to each of these types by the project as currently proposed.

TABLE 22.2 Maximum Impacts to Wetland and Waters by Cowardin Classification (NWI)

	NWI (Cowardin) Classification	Maximum Wetland Impacts (acres) ^a
Existing Road – Drainage Improvements (Cut/Fill)	PEM1C	-
	PFO1/4A	-
	PF01/SS1A	-
	PFO1/SS1B	-
	PFO1B	-
	PFO4/1B	-
	PFO4/SS1B	-
	PFO4/SS4B	-
	PFO4B	-
	PSS1/4B	-
	PSS1/EM1C	0.0 ^b
	PSS1/EM1F	-
	PSS1A	0.3
	PSS1B	0.1
	PSS1C	0.2
	PSS4/1B	0.2
	PSS4/FO4B	-
	PSS4B	0.1
	PUBH	0.0
	PUBHx	1.9
R2UBH	0.1	
R3UBS	-	
U ^c	-	
Existing Road – Drainage Improvements (Vegetation Clearing)	PEM1C	-
	PFO1/4A	-
	PF01/SS1A	-
	PFO1/SS1B	-
	PFO1B	-
	PFO4/1B	-
	PFO4/SS1B	-
	PFO4/SS4B	-
	PFO4B	-
	PSS1/4B	0.2
	PSS1/EM1C	-
	PSS1/EM1F	-
PSS1A	0.1	

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	NWI (Cowardin) Classification	Maximum Wetland Impacts (acres) ^a
	PSS1B	0.0
	PSS1C	-
	PSS4/1B	0.9
	PSS4/FO4B	-
	PSS4B	0.3
	PUBH	-
	PUBHx	-
	R2UBH	-
	R3UBS	-
	U ^c	-
<i>Subtotal Existing Road – Drainage Improvements</i>		<i>4.4</i>
Existing Road – New Road Bed Over Existing Roads/Trails (Cut/Fill)	PEM1C	-
	PFO1/4A	-
	PFO1/SS1A	0.3
	PFO1/SS1B	-
	PFO1B	-
	PFO4/1B	-
	PFO4/SS1B	1.2
	PFO4/SS4B	-
	PFO4B	-
	PSS1/4B	0.7
	PSS1/EM1C	-
	PSS1/EM1F	-
	PSS1A	-
	PSS1B	0.2
	PSS1C	-
	PSS4/1B	0.2
	PSS4/FO4B	-
	PSS4B	2.2
	PUBH	-
	PUBHx	-
R2UBH	-	
R3UBS	-	
U ^c	-	
Existing Road – New Road Bed Over Existing Roads/Trails (Vegetation Clearing)	PEM1C	-
	PFO1/4A	-
	PFO1/SS1A	0.2
	PFO1/SS1B	0.8
	PFO1B	-
	PFO4/1B	-
	PFO4/SS1B	-
PFO4/SS4B	-	

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	NWI (Cowardin) Classification	Maximum Wetland Impacts (acres) ^a
	PFO4B	-
	PSS1/4B	0.7
	PSS1/EM1C	0.0
	PSS1/EM1F	-
	PSS1A	-
	PSS1B	0.4
	PSS1C	-
	PSS4/1B	0.5
	PSS4B	1.6
	PUBHx	-
	R2UBH	-
	R3UBH	-
	U ^c	-
Subtotal – New Road Bed Over Existing Roads/Trails		9.0
New Road Bed/Parking Area (Cut/Fill)	PEM1C	0.0
	PFO1/4A	0.9
	PF01/SS1A	0.3
	PFO1/SS1B	-
	PFO1B	0.5
	PFO4/1B	0.7
	PFO4/SS1B	0.2
	PFO4/SS4B	1.1
	PFO4B	1.1
	PSS1/4B	0.1
	PSS1/EM1C	-
	PSS1/EM1F	0.1
	PSS1A	-
	PSS1B	0.4
	PSS1C	0.3
	PSS4/1B	2.3
	PSS4/FO4B	0.1
	PSS4B	5.4
	PUBH	-
	PUBHx	-
R2UBH	-	
R3UBS	-	
	U ^c	0.1
New Road Bed/Parking Area (Vegetation Clearing)	PEM1C	0.0
	PFO1/4A	0.4
	PF01/SS1A	0.1
	PFO1/SS1B	-
	PFO1B	0.3

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	NWI (Cowardin) Classification	Maximum Wetland Impacts (acres) ^a
	PFO4/1B	0.5
	PFO4/SS1B	0.2
	PFO4/SS4B	1.1
	PFO4B	0.7
	PSS1/4B	0.2
	PSS1/EM1C	-
	PSS1/EM1F	0.0
	PSS1A	-
	PSS1B	0.2
	PSS1C	0.2
	PSS4/1B	1.3
	PSS4/FO4B	0.1
	PSS4B	2.7
	PUBHx	-
	R2UBH	-
	R3UBH	-
	U ^e	0.0
Subtotal New Road Bed		21.6
Material Sites (Cut/Fill – No Vegetation Clearing)	PEM1C	0.3
	PEM1H	-
	PFO1A	0.1
	PFO1C	-
	PFO4B	-
	PFO4/SS1B	1.1
	PSS1/4B	1.8
	PSS1/EM1C	0.0
	PSS4/FO4B	-
	PSS1A	0.3
	PSS1B	1.1
	PSS1C	0.2
	PSS4/1B	1.0
	PSS4B	1.8
	PUBH	0.1
	PUBHb	0.0
	PUBHx	5.4
	PUSCb	-
	PUSCx	0.1
	R3UBH	-
R3UBHb	-	
Subtotal Material Sites		13.3
TOTAL		48.5
Notes: a. Rounding errors may result in subtotal/total discrepancies.		

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	NWI (Cowardin) Classification	Maximum Wetland Impacts (acres) ^a
b. A value of 0.0 in the table infers impacts less than .01 acres are expected.		
c. Expected to include wetland inclusions.		

The second classification system used by wetland scientists to better understand potential impacts to wetlands and waters on a function by function basis is referred to as the Hydrogeomorphic (HGM) Classification method. This method classifies wetlands according to their primary water (hydrologic) source. Table 22.3 below reflects the anticipated impacts to each HGM class by the project as currently proposed.

TABLE 22.3 : Maximum Impacts to Wetlands and Waters By HGM Type

	HGM Classification	Maximum Impact (Acres)
Existing Road – Drainage Improvements (Cut/Fill)	DEPRESSIONAL	1.9
	FLAT	0.4
	RIVERINE	0.6
	RIVERINE CHANNEL	0.1
	SLOPE	0.0
<i>Subtotal Impacts from Cut/Fills</i>		3.0
Existing Road – Drainage Improvements (Vegetation Clearing – 30' Buffer)	FLAT	1.4
	RIVERINE	0.1
<i>Subtotal Impacts from Vegetation Clearing</i>		1.5
Subtotal Existing Road Drainage Improvements		4.5
Existing Road – Construct New Road Bed Over Existing Road/Trails (Cut/Fill)	DEPRESSIONAL	0.1
	FLAT	4.4
	SLOPE	0.3
<i>Subtotal Impacts from Cut/Fills</i>		4.8
Existing Road – Construct New Road Bed Over Existing Road/Trails (Vegetation Clearing – 30' Buffer)	FLAT	3.9
	SLOPE	0.3
<i>Subtotal Impacts from Vegetation Clearing</i>		4.2
Subtotal Existing Road – Construct New Road Over Existing Road/Trails		9.0
New Road Bed & Parking Area Construction (Cut/Fill)	DEPRESSIONAL	0.1
	FLAT	5.0
	RIVERINE	2.3
	SLOPE	6.0
<i>Subtotal Impacts from Cut/Fills</i>		13.5
New Road Bed Construction (Vegetation Clearing – 30' Buffer)	DEPRESSIONAL	0.0
	FLAT	3.7
	RIVERINE	1.3

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	HGM Classification	Maximum Impact (Acres)
		SLOPE
<i>Subtotal Impacts from Vegetation Clearing</i>		8.2
Subtotal New Road Bed Construction		21.7
Material Sites/Access Roads (Cuts, Fills, Cut/Fills – No Vegetation Clearing Impacts)	DEPRESSIONAL	6.1
	FLAT	6.6
	RIVERINE	0.6
Subtotal Material Sites/Access Roads		13.3
PROJECT TOTAL		48.5
Notes: a. Rounding errors may result in subtotal/total discrepancies. b. A value of 0.0 in the table infers impacts less than .01 acres are expected.		

Wetland impacts by the predominant land cover types are shown in Table 22.4 while more detailed vegetation types are shown in Table 22.5.

TABLE 22.4 Predominant Land Cover Type Impacts (EROS)

Landcover Type	Land Cover Classification	Total (acres)	Waters of the U.S./Wetlands (acres)
Forest Types	Deciduous Forest	350.8	5.9
	Evergreen Forest	294.5	23.8
	Mixed Forest	116.1	3.4
Miscellaneous Types	Barren Land (Rock/Sand/Clay)	1.7	0.2
	Developed, Low Intensity	1.6	0.0
	Open Water	6.2	1.3
Shrub Types	Dwarf Shrub	5.7	0.0
	Shrub/Scrub	322.6	9.9
Wetland Types	Woody Wetlands	32.0	4.0
Grand Total		1,131.1	48.5

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TABLE 22.5 Predominant Vegetation Type Impacts

	Vegetation Type Classification	Total Impacts (acres)	Wetland Impacts (acres)
Existing Road – Drainage Improvements (Cut/Fill)	Bare Ground	4.8	-
	Bluejoint Tall Grass	0.8	-
	Closed Alder Shrub	0.2	0.2
	Closed Alder Willow Shrub	0.5	0.0
	Closed Black Spruce Forest	-	-
	Closed Deciduous Forest	5.5	-
	Closed Mixed Forest	0.1	-
	Closed White Spruce Forest	-	-
	Closed Willow Shrub	0.4	0.2
	Low Shrub Bog	-	-
	Mesic Herbaceous (Inv)	0.1	-
	Open Alder Shrub	-	-
	Open Alder Willow Shrub	0.9	0.1
	Open Black Spruce Forest	0.4	0.4
	Open Deciduous Forest	0.2	-
	Open Deciduous Forest -Shrub	-	-
	Open Mixed Forest	0.7	-
	Open Mixed Forest - Shrub	-	-
	Open Water	2.0	2.0
	Open Willow Shrub	2.0	0.2
	Open White Spruce Forest	-	-
Partially Vegetated	-	-	
Spruce Woodland	-	-	
Woodland Deciduous Forest	-	-	
Woodland Mixed Forest	-	-	
Subtotal		18.4	3.0
Existing Road – Drainage Improvements (Vegetation Clearing)	Bare Ground	0.0	-
	Bluejoint Tall Grass	0.2	-
	Closed Alder Shrub	-	-
	Closed Alder Willow Shrub	0.0	-
	Closed Black Spruce Forest	-	-
	Closed Deciduous Forest	3.4	-
	Closed Mixed Forest	0.1	-
	Closed White Spruce Forest	-	-
	Closed Willow Shrub	0.2	0.1
	Low Shrub Bog	-	-

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	Vegetation Type Classification	Total Impacts (acres)	Wetland Impacts (acres)
	Mesic Herbaceous (Inv)	-	-
	Open Alder Shrub	-	-
	Open Alder Willow Shrub	0.1	-
	Open Black Spruce Forest	1.2	1.2
	Open Deciduous Forest	0.2	-
	Open Deciduous Forest -Shrub	-	-
	Open Mixed Forest	1.1	-
	Open Mixed Forest - Shrub	0.1	-
	Open Water	-	-
	Open Willow Shrub	0.3	0.0
	Open White Spruce Forest	-	-
	Partially Vegetated	-	-
	Spruce Woodland	0.2	0.2
	Woodland Deciduous Forest	-	-
	Woodland Mixed Forest	0.1	-
	Subtotal	7.2	1.5
Existing Road – New Road Over Existing Roads/Trails (Cut/Fill)	Bare Ground	30.6	-
	Bluejoint Tall Grass	0.1	-
	Closed Alder Shrub	2.8	0.1
	Closed Alder Willow Shrub	1.2	-
	Closed Black Spruce Forest	2.7	2.2
	Closed Deciduous Forest	47.8	-
	Closed Mixed Forest	30.9	-
	Closed White Spruce Forest	0.2	-
	Closed Willow Shrub	-	-
	Low Shrub Bog	-	-
	Mesic Herbaceous (Inv)	1.2	-
	Open Alder Shrub	0.7	-
	Open Alder Willow Shrub	1.1	-
	Open Black Spruce Forest	13.1	1.3
	Open Deciduous Forest	14.7	0.3
	Open Deciduous Forest -Shrub	-	-
	Open Mixed Forest	36.5	-
	Open Mixed Forest - Shrub	0.1	-
	Open Water	-	-
	Open Willow Shrub	0.3	-
	Open White Spruce Forest	0.3	-
	Partially Vegetated	0.3	-

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	Vegetation Type Classification	Total Impacts (acres)	Wetland Impacts (acres)
	Spruce Woodland	0.3	0.1
	Woodland Deciduous Forest	0.2	0.1
	Woodland Mixed Forest	3.5	0.7
Subtotal		188.4	4.8
Existing Road – New Road Over Existing Roads/Trails (Vegetation Clearing)	Bare Ground	1.7	-
	Bluejoint Tall Grass	0.1	-
	Closed Alder Shrub	1.0	-
	Closed Alder Willow Shrub	0.6	-
	Closed Black Spruce Forest	2.1	1.6
	Closed Deciduous Forest	27.8	-
	Closed Mixed Forest	20.4	-
	Closed White Spruce Forest	0.2	-
	Closed Willow Shrub	-	-
	Low Shrub Bog	-	-
	Mesic Herbaceous (Inv)	0.1	-
	Open Alder Shrub	0.0	-
	Open Alder Willow Shrub	0.2	-
	Open Black Spruce Forest	10.0	1.3
	Open Deciduous Forest	10.1	0.2
	Open Deciduous Forest -Shrub	-	-
	Open Mixed Forest	21.7	-
	Open Mixed Forest - Shrub	-	-
	Open Water	-	-
	Open Willow Shrub	0.1	0.0
	Open White Spruce Forest	0.6	-
Partially Vegetated	0.2	-	
Spruce Woodland	0.3	-	
Woodland Deciduous Forest	0.4	0.4	
Woodland Mixed Forest	4.0	0.7	
Subtotal		101.4	4.2
New Road Bed (Cut/Fill)	Bare Ground	0.0	0.0
	Bluejoint Tall Grass	-	-
	Closed Alder Shrub	-	-
	Closed Alder Willow Shrub	0.4	0.4
	Closed Black Spruce Forest	11.4	5.3
	Closed Deciduous Forest	85.7	-
	Closed Mixed Forest	57.9	-
	Closed White Spruce Forest	4.3	-

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	Vegetation Type Classification	Total Impacts (acres)	Wetland Impacts (acres)
	Closed Willow Shrub	-	-
	Low Shrub Bog	0.3	0.3
	Mesic Herbaceous (Inv)	-	-
	Open Alder Shrub	-	-
	Open Alder Willow Shrub	-	-
	Open Black Spruce Forest	14.3	3.9
	Open Deciduous Forest	8.1	0.8
	Open Deciduous Forest -Shrub	1.5	-
	Open Mixed Forest	54.2	2.8
	Open Mixed Forest - Shrub	1.1	-
	Open Water	-	-
	Open Willow Shrub	-	-
	Open White Spruce Forest	11.7	-
	Partially Vegetated	-	-
	Spruce Woodland	1.8	0.1
	Woodland Deciduous Forest	3.4	-
	Woodland Mixed Forest	3.3	-
Subtotal		259.4	13.5
New Road Bed/Parking Area (Vegetation Clearing)	Bare Ground	-	-
	Bluejoint Tall Grass	0.0	0.0
	Closed Alder Shrub	-	-
	Closed Alder Willow Shrub	0.2	0.2
	Closed Black Spruce Forest	6.1	2.8
	Closed Deciduous Forest	48.5	-
	Closed Mixed Forest	29.3	-
	Closed White Spruce Forest	2.3	-
	Closed Willow Shrub	-	-
	Low Shrub Bog	0.2	0.2
	Low Shrub Tundra	0.0	-
	Mesic Herbaceous (Inv)	-	-
	Open Alder Shrub	-	-
	Open Alder Willow Shrub	-	-
	Open Black Spruce Forest	9.2	2.7
	Open Deciduous Forest	4.6	0.5
	Open Deciduous Forest -Shrub	1.2	-
	Open Mixed Forest	28.5	1.6
	Open Mixed Forest - Shrub	0.7	0.0
	Open Water	-	-

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	Vegetation Type Classification	Total Impacts (acres)	Wetland Impacts (acres)
	Open Willow Shrub	-	-
	Open White Spruce Forest	6.3	-
	Partially Vegetated	0.0	-
	Spruce Woodland	1.3	0.2
	Woodland Deciduous Forest	1.9	-
	Woodland Mixed Forest	1.3	0.0
Subtotal		141.5	8.2
Material Sites (Cut/Fill – No Vegetation Clearing Impacts)	Bare Ground	2.8	-
	Bluejoint Tall Grass	-	-
	Closed Alder Shrub	26.7	0.2
	Closed Alder Willow Shrub	0.8	0.0
	Closed Black Spruce Forest	0.5	-
	Closed Deciduous Forest	116.4	0.1
	Closed Mixed Forest	64.5	-
	Closed White Spruce Forest	4.7	-
	Closed Willow Shrub	0.6	-
	Dwarf Birch Low Shrub	1.6	-
	Low Shrub Bog	0.2	0.2
	Low Shrub Tundra	-	-
	Mesic Herb Invasives	1.1	-
	Open Alder Shrub	1.6	-
	Open Alder Willow Shrub	2.5	0.2
	Open Black Spruce Forest	25.4	3.9
	Open Deciduous Forest	49.3	-
	Open Deciduous Forest - Shrub	4.0	-
	Open Mixed Forest	73.9	-
	Open Mixed Forest - Shrub	0.3	-
	Open Water	5.6	5.6
	Open Willow Shrub	0.2	0.2
	Partially Vegetated	1.0	-
Spruce Woodland	10.2	1.8	
Wet Herbaceous	0.3	0.3	
Woodland Deciduous Forest	13.4	0.7	
Woodland Mixed Forest	7.0	-	
Subtotal		414.6	13.2
TOTAL		1,131.1	48.5
Notes: a. Rounding errors may result in subtotal/total discrepancies. b. A value of 0.0 in the table infers impacts less than .01 acres are expected.			