MEMORANDUM

State of Alaska
Department of Transportation & Public Facilities
Northern Region
Design, Engineering, & Construction

TO: Name
Department of Natural Resources
Division of Mining, Land and Water

DATE: 10/06/2025

PHONE NO: (907)451-5483

FROM: Katie Champagne
DOT&PF - Northern Region
Right of Way Agent III

SUBJECT: Parks Hwy Nenana River Bridge at Rex #0216 Replacement
NFHWY00788/0A44023

Application for Easement

The State of Alaska Department of Transportation and Public Facilities (DOT&PF) is applying for a permanent easement (E-1) as part of a project to replace the existing Nenana River Bridge at Rex (#0216) located at MP 276 of the Parks Highway. The project will include drainage improvements, road reconstruction, roadside hardware, utilities and the roadside shoulder will be expanded from 3' to 8' providing safer accommodation for pedestrians and bike traffic.

The existing bridge, constructed in 1963, received a superstructure rating of 4 (poor) in 2022 and required emergency repairs for a cracked floor-beam in 2023. The existing bridge is reaching the end of its useful life and is at risk of being load-posted. DOT&PF is planning to replace the deteriorating truss bridge with a variable depth steel girder bridge while maintaining both the existing horizontal alignment and low cord. The new steel girder bridge will be longer and wider, consisting of 3 spans of 5 girders supported by 2 piers and will include steel bridge railings on both sides.

DOT&PF needs to acquire a permanent easement across 2.1 acres of DNR land to accommodate the construction of the replacement bridge and maintain access for future inspections and repairs. The exact location and size of your property necessary to complete this project is described in the attached legal description and parcel plat. Further details can be found in the included Environmental Document (Cat Ex).

The project is currently scheduled for the 2027 construction season; however, construction of a work trestle and traffic conversion is planned for 2026 therefore DOT&PF requests that this application be processed as quickly as possible in order to allow flexibility in planning the upcoming project construction efforts. Please let me know if you need any additional information to review this application or if there is anything I can do to help expedite the process. If you foresee any problems or have any questions, please contact me at (907) 451-5483 or by email at katie.champagne@alaska.gov.

Enclosure:

DNR Application for Easement
DNR Applicant Environmental Risk Questionnaire
Easement Legal Description & Plat (E-1)
Environmental Document (Cat Ex)
Project Plan Set

STATE OF ALASKA

DEPARTMENT OF NATURAL RESOURCES

Division of Mining, Land and Water

Northern Region Land Office,
Fairbanks
(907) 451-2740

Southcentral Region Land Office,
Anchorage
(907) 269-8503

Southeast Region Land Office,
Juneau
(907) 465-3400

The Department of Natural Resources (DNR) Division of Mining, Land and Water (DMLW) manages approximately 100 million acres of uplands and 65 million acres of tidelands, shorelands, and submerged lands on behalf of the public. DMLW is responsible for providing for the appropriate use and management of Alaska's state-owned land and water, in order to provide for maximum use of these resources consistent with the public interest.

Members of the public may research the location of DMLW-managed lands with DNR's online Alaska Mapper at https://mapper.dnr.alaska.gov. Activities that the public may engage in on DMLW-managed land without prior approval are referred to as Generally Allowed Uses (GAUs) and are listed under 11 AAC 96.020; DMLW may approve activities that exceed these uses with a range of authorizations that vary in degree of revocability and exclusivity. An easement is a grant that guarantees use within the authorized area without undue interruption but usually does not provide for exclusive use. Parties who are interested in obtaining an easement across DMLW-managed land may apply using the attached application form.

DMLW generally grants easements for the following activities:

- **Access infrastructure,** including roads, trails, airstrips and bridges.
- **Utilities**, generally encompassing electrical, telecommunications, water, sewer and natural gas infrastructure.
- **Industrial activities**, including commercial outfall lines and some pipelines.
- **Erosion control features**, including for bank armoring, dikes, jetties, and other revetment structures.

Easements may be granted to governmental entities, corporations, or individuals, and may be limited to private use or open to the public at large. DMLW precedent generally favors the creation of public access easements for access infrastructure. DMLW follows the guidelines for easement width established by 11 AAC 51.015 and generally grants utility easements at a 30 foot width and public access easements at a 60 or 100 foot width.

All easement application packages must include the following items in order to be eligible for review:

- Easement Application Form with signature.
- Written Development Plan that describes the proposed development of the easement, and a purpose and need statement for the proposed development. A map or sketch that depicts the location of the proposed development is also required. The Development Plan instructions and form can be found at https://dnr.alaska.gov/mlw/cdn/pdf/forms/Development-Plan.pdf .
- Environmental Risk Questionnaire with signature. This form can be found at https://dnr.alaska.gov/mlw/cdn/pdf/forms/Environmental-Risk-Questionnaire.pdf .
- Application fee set by 11 AAC 05.070 and applicable director's fee order at https://dnr.alaska.gov/mlw/pdf/DMLWFeeOrder3-v2.pdf.
- Power of Attorney for a project agent to act on behalf of the applicant, if applicable.

The act of filing an application is not approval for land use. If notified that an application is incomplete, applicants will have 30 days to provide the necessary information. If the applicant is not responsive the

application will be closed. Complete applications will be posted in their entirety to the DMLW public notice webpage for a period of 30 days. Following the close of this notice period DMLW will issue an appealable Regional Manager's Decision (RMD) that will either approve or deny the request. This decision may detail additional steps and/or modify the initial request as a condition of obtaining or holding an easement. Conditions may include, but are not limited to:

- **Survey of the easement boundaries**. A survey of the shoreline may be required prior to undertaking construction activities when working near riparian boundaries. A postconstruction as-built survey of constructed improvements may also be required.
- **Evidence of having applied for or received permission to utilize neighboring lands** or adjoining upland property, if such property is required for the overall project.
- **Dedication of reciprocal easement** over the applicant's land, at DMLW's determination.
- **Use fees** set by 11 AAC 05.070 and applicable director's fee order at https://dnr.alaska.gov/mlw/pdf/DMLWFeeOrder3-v2.pdf.
- **Performance guaranty** in the form of a cash bond, certificate of deposit or corporate surety bond. The minimum performance guaranty for an easement is $1,000 per acre or portion of an acre.
- **Proof of insurance** that covers the proposed activities.
- **Submission of an annual report** of activities that occurred within the easement and/or that are proposed to occur within the easement.

Applicants are encouraged to contact the appropriate regional land office listed above and/or apply for an easement a year in advance of their desired construction timeframe. DMLW regional land office contact information is listed at the beginning of this document. Applicants should also expect to retain surveyors or project agents for the full length of proposed construction activities as DMLW holds easements in a conditionally approved status until completion of an as-built survey and/or receipt of required deliverables. Failure to complete conditions of a RMD including the completion of an as-built survey will result in the termination of the authorization, and the applicant will be required to remove any improvements that were installed.

Applicants are encouraged to meet with a member of DMLW's staff to discuss proposed activities prior to filing an application**.**

Completed Easement Applications must be submitted electronically to an email address below or mailed to one of the following offices closest to the proposed use or activity on state lands:

Northern Region Land Office
3700 Airport Way
Fairbanks, AK 99709-4699
(907) 451-2740
nro.lands@alaska.gov

Southcentral Region Land Office
550 West 7th Ave, Suite 900C
Anchorage, AK 99501-3577
(907) 269-8503
dnr-pic@alaska.gov

Southeast Region Land Office
P. O. Box 111020
Juneau, AK 99811-1020
(907) 465-3400
sero@alaska.gov

Statewide TTY – 771 for Alaska Relay or 1-800-770-8973

STATE OF ALASKA

DEPARTMENT OF NATURAL RESOURCES

Division of Mining, Land and Water

APPLICATION FOR EASEMENT

AS 38.05.850

ADL# _____
(to be filled in by State)

Applications that are submitted with unfilled sections or inadequate explanation and/or without application fees, a location figure and/or a completed Division of Mining, Land and Water (DMLW) Environmental Risk Questionnaire will be deemed incomplete. Incomplete applications will be returned without review. See DMLW's current fee regulations (11 AAC 05) and associated Director's Fee Order for applicable non-refundable fee amounts. The filing of an application does not guarantee processing or approval of the requested authorization.

Applicant: State of Alaska DOT&PF Doing Business As: _____

Agent: (if applicable; attach record of authorization to represent) Katie Champagne

Mailing Address: 2301 Peger Road Email: katie.champagne@alaska.gov

City/State/Zip: Fairbanks, AK 99709

Primary Phone: (907)451-5483 Alternate Phone: _____

General Location: Parks Highway MP 276 Municipality: Denali Borough

Section(s): 14 Township: 8S Range: 9W Meridian: Fairbanks

Section(s): _____ Township: _____ Range: _____ Meridian: _____

Attach a location figure, plan drawing or survey that shows the detailed location of the requested easement in relation to adjoining property boundaries and reference points. All features must be labeled.

Dimensions requested (Complete line 1 for a lineal easement or line 2 for an easement with an irregular shape):

1. Length: (feet) See attached Exhibit Width: (feet) See attached Exhibit
2. Area: 2.1 Are units in ☐ square feet or ☒ acres? (check one)

Term requested and rationale: Perpetual

Are you applying for a ☒ public or a ☐ private easement? (check one) Rationale:

Easement is for a perpetual public right-of-way for all modes of public travel.

Development plan summary/specific purpose of easement: (e.g., electric utility, fiber-optic cable, road, bridge, airstrip/airport, driveway, trail, drainage). This information will be used to determine the scope of use of the easement.

This easement will support the replacement of the Nenana River Bridge at Rex Crossing (#0216) while maintaining both the existing allignment and low cord to improve safety. The existing bridge is reaching the end of it's useful life and is at risk of being load-posted. The truss bridge will be replaced with a variable depth steel girder bridge, and in order to maintain the existing low cord elevation, the approaches to each end of the bridge will require a grade-raise. The dike upstream of the bridge will also be repaired by bolstering the existing embankment's rip rap. An optional feature being considered is the construction of pullouts at the bridge to provide easier and safer access for bridge inspections, scenic viewing opportunities, and the potential for slower traffic to pull over and allow queued traffic to pass safely.

Is this an existing use? ☒ Yes ☐ No. If yes, explain extent and duration of use to date:

The Nenana River Bridge #0216 was originally constructed in 1963 and has been actively used since.

Describe plans for initial construction. Be detailed. Include a list of authorizations for portions of the project that are proposed for construction on adjoining lands, other permitting, and/or third-party non-objections: (Use extra sheets as needed)

The preferred design is for the deteriorated truss bridge to be replaced with a longer and wider steel girder bridge consisting of 3 spans of 5 girders supported by 2 piers and will include 2-tube steel bridge railing on both sides. The variable depth steel girder bridge allows us to use fewer piers with more optimal placement on a river that frequently experiences severe ice jams during break-up. Additionally, the variable depth alternative requires less of a grade raise than the fixed depth option by nearly 3 feet. A key safety improvement lies in the fundamental design of the bridge. The existing bridge relies on certain non-redundant steel tension members, meaning that should the member fail, sections of the bridge or even the entirety of the bridge may fail. An absence of non-redundant members in the new design will safeguard against catastrophic failure. There are multiple tangible and intangible variables such as reduction of in-water work, optimal pier placement, and reduced embankment foot print that affect both cost and environmental impacts and contribute to making this the most preferred option.
Replacement of the bridge will require a work trestle on the south side of the existing bridge and a temporary bridge as a detour route on the north side of the existing bridge.

Anticipated construction timeframe: Spring 2026 - Fall 2027

If this authorization is granted, I agree to construct and maintain the authorized improvements in an acceptable manner, and to keep the area in a neat and sanitary condition; to comply with all the laws, rules, and regulations pertaining thereto; and provided further that upon termination of the easement for which application is being made, I agree to remove or relocate the improvements and restore the area without cost to the State and to the satisfaction of DMLW.

Applicant's Signature Katie Champagne Date: 10/06/2025

This form must be filled out completely and submitted with the applicable fees. Failure to do so will result in a delay in processing. AS 38.05.035(a) authorizes the director to decide what information is needed to process an application for the sale or use of state land and resources. This information is made a part of the state public land records and becomes public information under AS 40.25.110 and 40.25.120 (unless the information qualifies for confidentiality under AS 38.05.035(a)(8) and confidentiality is requested, AS 43.05.230, or AS 45.48). Public information is open to inspection by you or any member of the public. A person who is the subject of the information may challenge its accuracy or completeness under AS 44.99.310, by giving a written description of the challenged information, the changes needed to correct it, and a name and address where the person can be reached. False statements made in an application for a benefit are punishable under AS 11.56.210.

In submitting this form, the applicant certifies that he or she has not changed the original text of the form or any attached documents provided by the Division. In submitting this form, the applicant agrees with the Department to use "electronic" means to conduct "transactions" (as those terms are used in the Uniform Electronic Transactions Act, AS 09.80.010 – AS 09.80.195) that relate to this form and that the Department need not retain the original paper form of this record: the department may retain this record as an electronic record and destroy the original.

For Department Use Only
Application received date stamp

Receipt Types:
- ☐ **13A Pipeline Easement**
- ☐ **13 Other Easement**

STATE OF ALASKA

DEPARTMENT OF NATURAL RESOURCES

Division of Mining, Land and Water

Northern Region	Southcentral Region	Southeast Region
3700 Airport Way	550 W. 7th Ave, Suite 900C	P. O. Box 111020
Fairbanks, AK 99709-4699	Anchorage, AK 99501-3577	Juneau, AK 99811-1020
907-451-2740	907-269-8503	907-465-3400
nro.lands@alaska.gov	dnr.pic@alaska.gov	sero@alaska.gov

Statewide TTY – 771 for Alaska Relay or 1-800-770-8973

APPLICANT ENVIRONMENTAL RISK QUESTIONNAIRE

ADL # _____ *(assigned by DNR)* Date 10/06/2025

Applicant *(should match business license)* State of Alaska DOT&PF

Mailing Address 2301 Peger Road

City/State/Zip Fairbanks, AK 99709 Email katie.champagne@alaska.gov

Primary Phone (907)451-5483 Secondary Phone _____

Does the applicant have a current Alaska business license? ☐ Yes ☐ No License # _____

Type of license (partnership, LLC, corporation, etc.)? _____

Describe the proposed use of and activity on the state land:

The State of Alaska DOT&PF is planning to replace the Nenana River Bridge at Rex Crossing (#0216) with a variable depth steel girder bridge while maintaining both the existing allignment and low cord to improve safety and extend the life of the bridge. The Project will include drainage improvements, road reconstruction, roadside hardware and utilities.

In the course of your proposed activity will you generate, use, store, transport, dispose of, or otherwise come in contact with toxic and/or hazardous materials, and/or hydrocarbons? ☒ Yes ☐ No. If yes, please list the substances and the associated quantities. Use a separate sheet of paper if necessary.

Asphalt Binder Grade PG 52-28 - 83 Tons
Asphalt Binder Grade PG 52-40 - 157 Tons
STE 1 Asphalt – 3 Tons
Deisel – as needed - unknown quantity
Gasoline – as needed - unknown quantity

If the proposed activities involve any storage tanks, either above or below ground, address the following questions for each tank. Please use a separate sheet of paper, if necessary, and, where appropriate, include maps or plats:

a) Where will the tank be located?

Tank will likely be stored within the DOT Right of Way.

b) What will be stored in the tank?

The contractor hired to complete this project will be required to submit a Hazardous Materials Control Plan prior to the commencement of the project which will contain these details.

c) What will the tank's size be in gallons?

Unknown at this time

d) What will the tank be used for? (Commercial or residential purposes?)

The contractor hired to complete this project will be required to submit a Hazardous Materials Control Plan prior to the commencement of the project which will contain these details.

e) Will the tank be tested for leaks? ■ Yes ☐ No

f) Will the tank be equipped with secondary containment? ▣ Yes ☐ No. If yes, describe:

The contractor hired to complete this project will be required to submit a Hazardous Materials Control Plan prior to the commencement of the project which will contain these details.

g) Will the tank be equipped with leak detection devices? ☐ Yes ☐ No. If yes, describe:

The contractor hired to complete this project will be required to submit a Hazardous Materials Control Plan prior to the commencement of the project which will contain these details.

Do you know or have any reason to suspect that the site may have been previously contaminated? ☐ Yes ■ No.
If yes, please explain:

I certify that due diligence has been exercised and proper inquiries made in completing this questionnaire, and that the foregoing is true and correct to the best of my knowledge.

State of Alaska DOT&PF

Applicant Name

Katie Champagne 10/06/2025

Applicant Signature Date

State of Alaska DOT&PF, Right of Way Agent III

Agency, Municipality, or Organization and Position Title (if applicable)

In submitting this form, the applicant certifies that no changes have been made to the original text of the form or any attached documents provided by the Division.

AS 38.05.035(a) authorizes the director to decide what information is needed to process an application for the use of state land and resources. This information is made a part of the state public land records and becomes public information under AS 40.25.110 and 40.25.120, unless the information qualifies for confidentially under AS 38.05.035(a)(8) and confidentiality is requested, or qualifies for confidentiality under AS 43.05.230, AS 45.48, or other state or federal laws. Public information is open to inspection by you or any other member of the public. A person who is the subject of the personal information may challenge its accuracy or completeness under AS 40.25.310, by giving a written description of the challenged information, the changes needed to correct it, and a name and address where the person can be reached. False statements made in an application for a benefit are punishable under AS 11.56.210. In submitting this form, the applicant agrees with the Department to use "electronic" means to conduct "transactions" (as those terms are used in the Uniform Electronic Transactions Act, AS 09.80.010-AS 09.80.195) that relate to this form and that the Department need not retain the original paper form of this record: the Department may retain this record as an electronic record and destroy the original.

EXHIBIT A

PARCEL PLAT LEGAL DESCRIPTION FOR

PARCEL E1

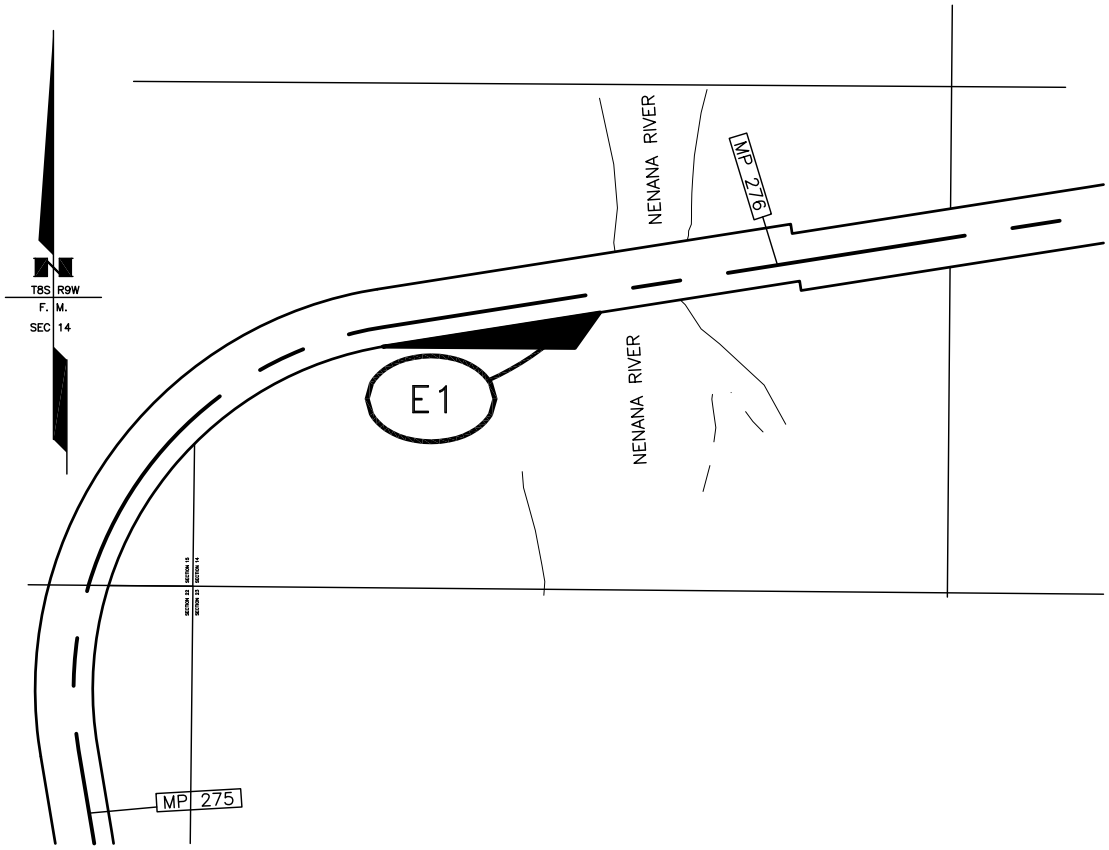
ALASKA PROJECT 0A44023/NFHWY00788
PARKS HWY NENANA RIVER BRIDGE AT REX #0216 REPLACEMENT

A portion of Lot 8, Section 14, Township 8 South, Range 9 West, Fairbanks Meridian, records of the Nenena Recording District, Fourth Judicial District, State of Alaska, said portion being depicted herein as Parcel Number E1 which is more particularly described on the remaining pages of this exhibit.

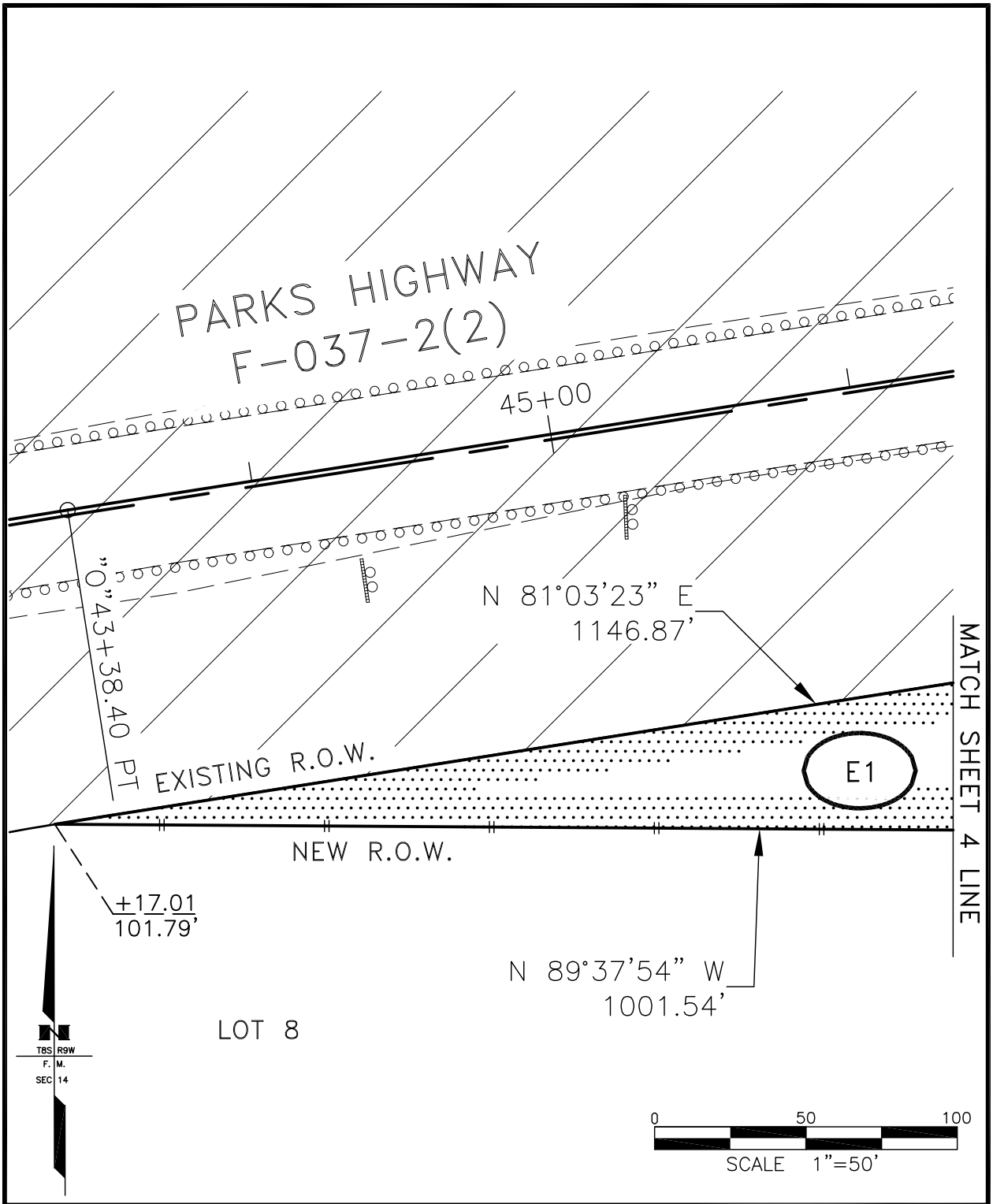
Developed by:
ALASKA DOT&PF
NORTHERN REGION
2301 PEGER ROAD
FAIRBANKS, AK 99709
(907) 451-5400

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
&
PUBLIC FACILITIES

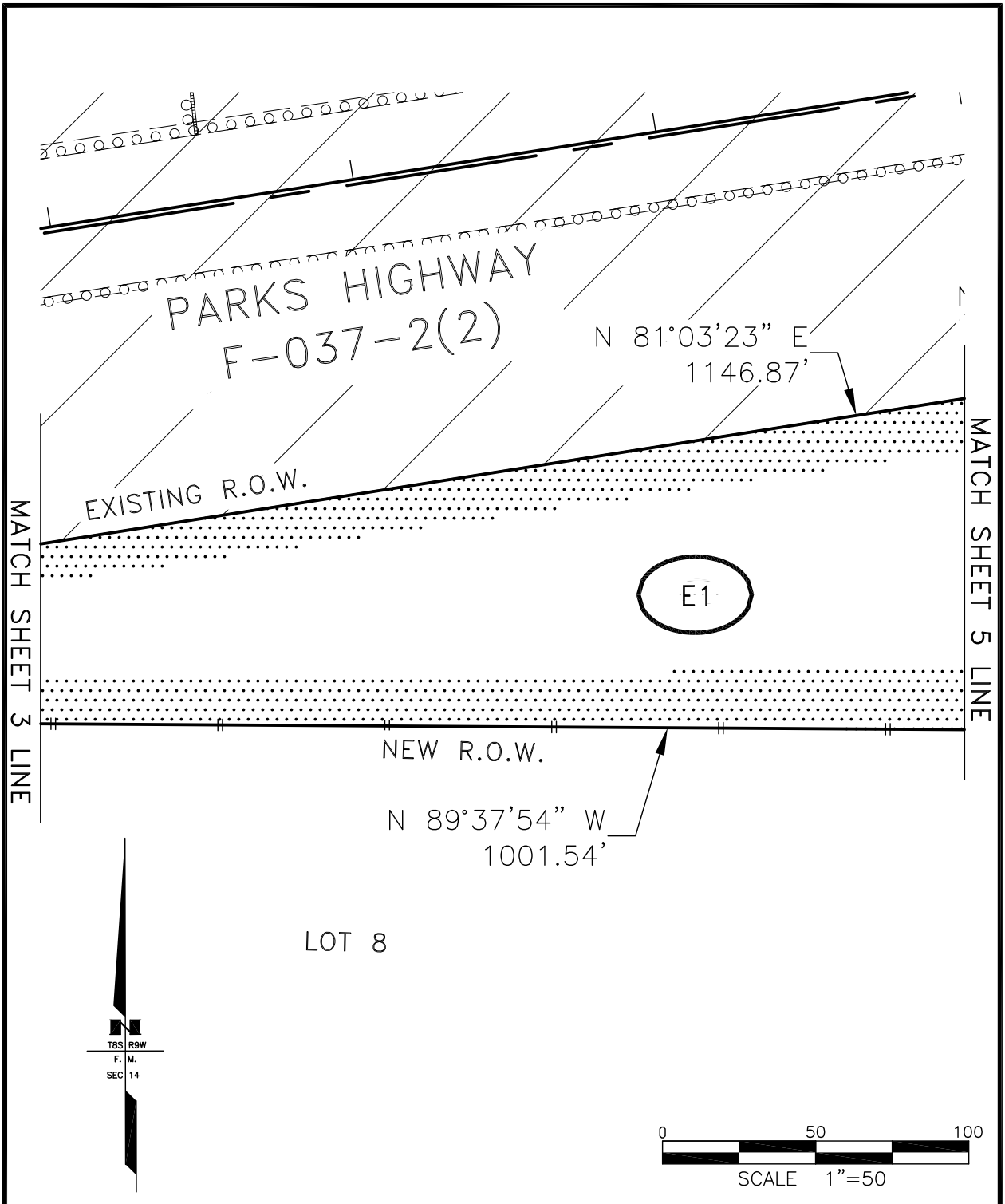
RIGHT OF WAY REQUIRED
0A44023/NFHWY00788
PARKS HWY NENANA RIVER BRIDGE AT REX #0216 REPLACEMENT



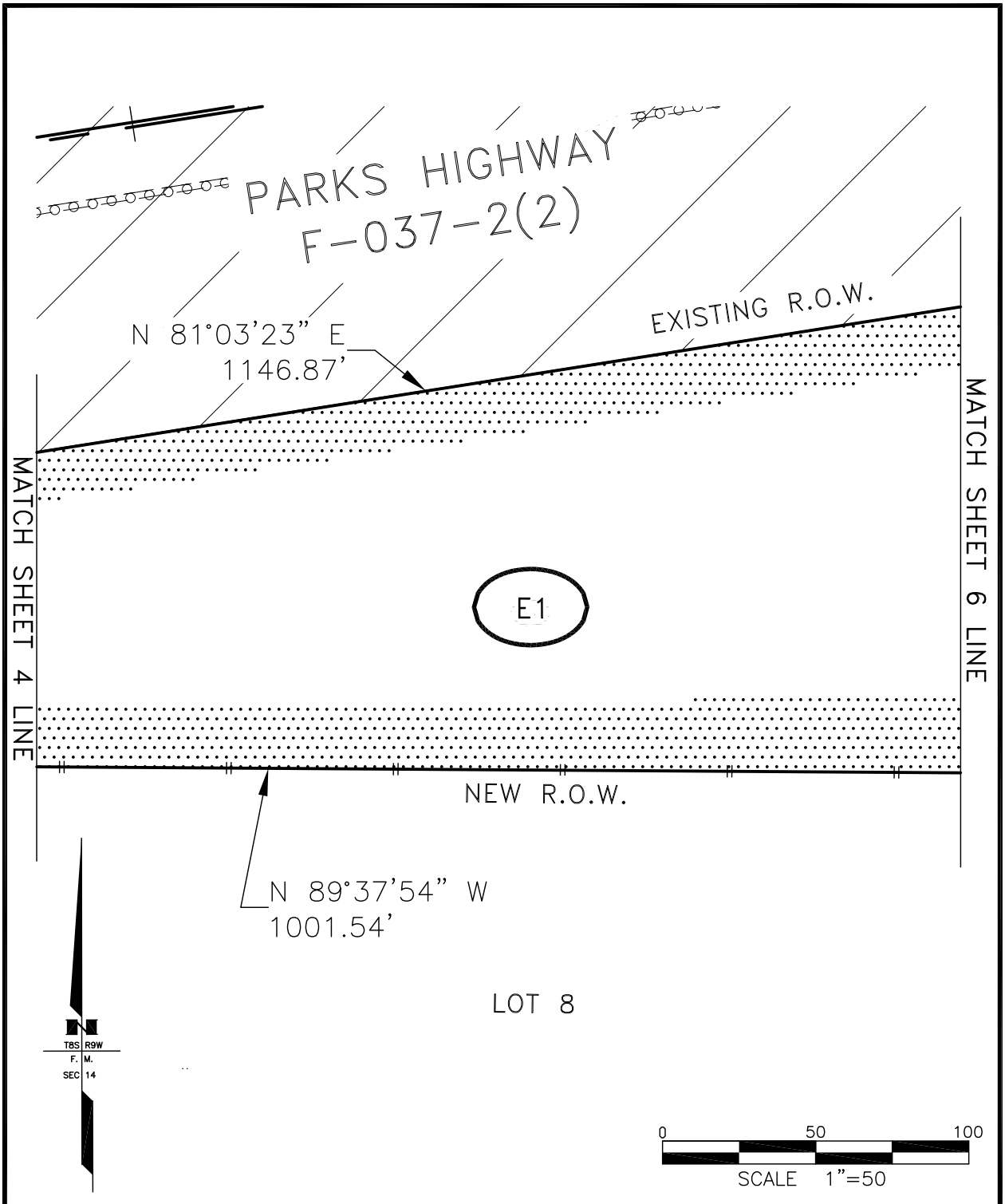
STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES	RIGHT OF WAY REQUIRED FOR: PARKS HWY NENANA RIVER BRIDGE AT REX #0216 REPLACEMENT PROJECT NO: 0A44023/NFHWY00788
EXHIBIT A, SHEET 2 OF 6 INITIALS:_____ DATE:_____	AREA 2.1 A.C. PARCEL NO. E1 SCALE 1" = 1000' DATE 9/17/2025



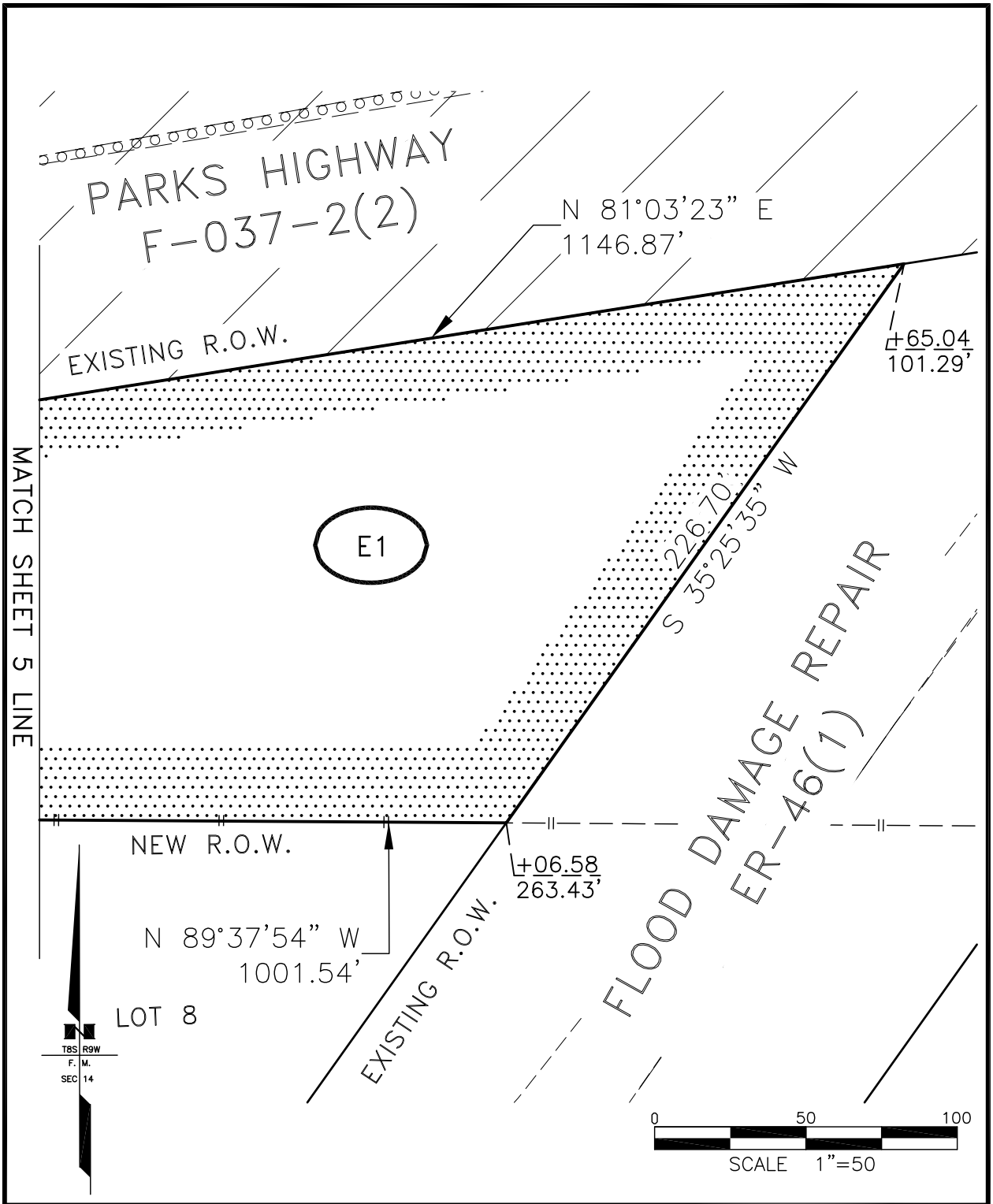
STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES	RIGHT OF WAY REQUIRED FOR: PARKS HWY NENANA RIVER BRIDGE AT REX #0216 REPLACEMENT PROJECT NO: 0A44023/NFHWY00788
EXHIBIT A, SHEET 3 OF 6 INITIALS:_____ DATE:_____	AREA 2.1 ACRES PARCEL NO. E1 SCALE 1" = 50' DATE 9/17/2025



STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES	RIGHT OF WAY REQUIRED FOR: PARKS HWY NENANA RIVER BRIDGE AT REX #0216 REPLACEMENT PROJECT NO: 0A44023/NFHWY00788
EXHIBIT A, SHEET 4 OF 6 INITIALS:_____ DATE:_____	AREA 2.1 ACRES PARCEL NO. E1 SCALE 1" = 50' DATE 9/17/2025



STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES	RIGHT OF WAY REQUIRED FOR: PARKS HWY NENANA RIVER BRIDGE AT REX #0216 REPLACEMENT PROJECT NO: 0A44023/NFHWY00788
EXHIBIT A, SHEET 5 OF 6 INITIALS:_____ DATE:_____	AREA 2.1 ACRES PARCEL NO. E1 SCALE 1" = 50' DATE 9/17/2025



STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES	RIGHT OF WAY REQUIRED FOR: PARKS HWY NENANA RIVER BRIDGE AT REX #0216 REPLACEMENT PROJECT NO: 0A44023/NFHWY00788
EXHIBIT A, SHEET 6 OF 6 INITIALS:_____ DATE:_____	AREA 2.1 ACRES PARCEL NO. E1 SCALE 1" = 50' DATE 9/17/2025

State of Alaska
Department of Transportation & Public Facilities

CATEGORICAL EXCLUSION DOCUMENTATION FORM

(NEPA Assignment Program Projects)

The environmental review, consultation, and other actions required by the applicable Federal environmental laws for this project are being, or have been carried out by the DOT&PF pursuant to 23 U.S.C. 327 and a Memorandum of Understanding dated April 13, 2023 and executed by FHWA and DOT&PF.

I. Project Information

A. Project Name: Parks Hwy Nenana River Bridge at Rex #0216 Replacement

B. State Project Number: NFHWY00788

C. Federal Project Number: Pending

D. Primary/Ancillary Project Connections: N/A

E. COA Determination: 23 CFR 771.117(d)(13)

F. Project Scope:

TIP or STIP: STIP

Need ID: PENDING

Project Scope:

Replace the Nenana River Bridge at Rex (#0216) located on the Parks Highway at MP 276. Project will include drainage improvements, road reconstruction, roadside hardware, and utilities.

G. Project Purpose And Need:

The purpose of this project is to replace the Nenana River Bridge at Rex Crossing (#0216) on the Parks Highway near MP 276 as the bridge is reaching the end of its useful life and is at risk of being load-posted. The need for the bridge replacement is to improve safety and extend the life of the bridge.

H. Project Description:

This project will be replacing the Nenana River Bridge at Rex Crossing (#0216) on the Parks Highway near MP 276. Replacement of the bridge will require a work trestle on the south side of the existing bridge and a temporary bridge as a detour route on the north side of the existing bridge. Other project activities include paving and striping, replacement of signs, replacement of guardrails, vegetation clearing and grubbing, and potential TCEs/TCPs.

Attachments

Environmental Consequences

Project Plans & Location Information

- Project Plans and Location Info NFHWY00788.pdf

Environmental Justice Impacts (E.O. 12898)

- Denali Borough, Alaska - Census Bureau Search.pdf NFHWY00788.pdf

Historic Properties and Cultural Impacts

- NFHWY00788 Parks HWY Nenana River Bridge at Rex Replacement DTF 11152024.pdf NFHWY00788.pdf
- Section106 NFHWY00788 - Update.pdf NFHWY00788.pdf
- NFHWY00788_Parks Hwy Nenana River Bridge at Rex (#0216) Replacement_Findings_ALL.pdf NFHWY00788.pdf
- 3130-1R 2024-01130 NFHWY00788 Parks Highway Nenana River Bridge at Rex #0215 Replacement concurrence.pdf NFHWY00788.pdf

Floodplain Impacts (23 CFR 650, Subpart A)

- LHS NFHWY00788.pdf
- Public Involvement Documentation NFHWY00788.pdf

Comments and Coordination

Public Involvement

- Daily News Miner Ad.pdf NFHWY00788.pdf
- NFHWY00788 OPN.pdf NFHWY00788.pdf
- NFHWY00788 OPN NFHWY00788 (1).pdf

Agency Involvement

- NFHWY00788 Agency Scoping Letter Signed.pdf NFHWY00788.pdf
- NFHWY00788 Agency Coment Response Summary.pdf NFHWY00788.pdf
- USCG - Clint Scott.pdf NFHWY00788.pdf

II. Environmental Consequences

A. Land Use and Transportation Plans	Yes	No
1. Were land use plans for this area reviewed? If yes, include source, link, and date accessed.	☑	☐

Yukon Tanana Area Plan (2014), https://dnr.alaska.gov/mlw/planning/areaplans/ytap/pdf/ytap_2014_complete.pdf, 5/5/2025

Denali Borough Land Use and Economic Development Plan (2018), https://www.denaliborough.org/vertical/sites/%7B63112C6F-13FC-4147-831D-8F3F0E33EC53%7D/uploads/FINAL_Denali_Borough_LandUse__Economic_Development_Plan(1).pdf, 5/5/2025

a. Is the project consistent with land use plan(s)?	☑	☐
2. Were transportation plans for this area reviewed?	☑	☐

Alaska Statewide Long-Range Transportation Plan - Let's Keep Moving 2036: Policy Plan (2016), https://dot.alaska.gov/stwdplng/areaplans/lrtpp2016/docs/LRTPpolicyplan_finalsigned_12-16.pdf, 5/5/2025

Interior Alaska Transportation Plan (2010), https://dot.alaska.gov/stwdplng/areaplans/area_regional/assets/iatp/full-iatp.pdf, 5/5/2025

a. Is the project consistent with transportation plan(s)?	☑	☐
3. Would the project induce adverse indirect and cumulative effects on land use or transportation?	☐	☑

Summary
Summarize how the project is consistent or inconsistent with land use and transportation plan(s).

Yukon Tanana Area Plan (2014):

- Public Health and Safety: Maintain or enhance public health and safety for users of state and land resources.
- Public Use: Provide, plan, enhance, and manage diverse opportunities for the public use of state lands, including using such as hunting, fishing, boating and other types of recreation.

Denali Borough Land Use and Economic Development Plan (2018):

- Transportation: Support effective, easy to use, connected transportation options that benefit everyone who lives in, works in, or visits Denali Borough.

Let's Keep Moving 2036: Policy Plan (2016):

- Plan Priorities:
  - Bridge and pavement projects that preserve the current road system with an emphasis on the Interstate and National Highway System.
  - Modernizing the system to reduce risks to safety and reliability.

Interior Alaska Transportation Plan (2010):

- Goal 2: Improve the overall Interior Regional Transportation System to promote the health, safety and security of residents and visitors for all motorized and non-motorized users.

- Goal 4: Emphasize preservation of the existing transportation facilities.
    - Objective A: Implement programs to ensure that deficient highways and bridges are brought into compliance with standards.

B. Right-of-Way Impacts	**Yes**	**No**
1. Are there any temporary right-of-way (ROW) impacts (e.g., Temporary Construction Easements (TCEs), Temporary Construction Permits (TCPs), utility relocates, construction staging area)?	☑	☐
2. Is additional permanent ROW required?	☐	☑

Summary
Summarize ROW impacts, if any. Include any project-specific commitments or mitigative measures in Section V.

No additional ROW will be acquired; however, TCPs/TCEs may be needed to construct the detour bridge during construction.

C. Environmental Justice Impacts (E.O. 12898)	**Yes**	**No**
1. Is there potential to affect environmental justice (EJ) populations?	☐	☑

Summary
Summarize EJ population impacts and mitigation, if any. Include any project-specific commitments or mitigative measures in Section V.

This project is not anticipated to have any adverse impacts on environmental justice populations within the project area.

U.S. Census Bureau,https://data.census.gov/all?q=Denali+Borough,+Alaska, 5/5/2025

Attachments

- Denali Borough, Alaska - Census Bureau Search.pdf NFHWY00788.pdf

D. Historic Properties and Cultural Impacts	**Yes**	**No**
1. Is a National Register of Historic Places listed or eligible property in the proposed Area of Potential Effect (APE)?	☑	☐
2. Was a programmatic allowance processed for the project under the Section 106 Programmatic Agreement?	☑	☐

Attachments

- Section106 NFHWY00788 - Update.pdf NFHWY00788.pdf

3. Was Section 106 consultation initiated or a Direct to Findings worksheet completed?	☑	☐
a. Was a direct to findings worksheet completed?	☑	☐

Attachments

- NFHWY00788 Parks HWY Nenana River Bridge at Rex Replacement DTF 11152024.pdf NFHWY00788.pdf

D. Historic Properties and Cultural Impacts

	Yes	No
4. Was a Section 106 "Finding of Effect" completed?	☑	☐

Attachments

- NFHWY00788_Parks Hwy Nenana River Bridge at Rex (#0216) Replacement_Findings_ALL.pdf NFHWY00788.pdf

a. Date "Finding of Effect" Letters sent:

11/15/24

b. State "Finding of Effect":

- No Effect

c. Were there any changes to consulting parties?	☐	☑
d. Were any comments received?	☐	☑

5. Date State Historic Preservation Officer (SHPO) concurred with "Finding of Effect":

12/12/2024

Attachments

- 3130-1R 2024-01130 NFHWY00788 Parks Highway Nenana River Bridge at Rex #0215 Replacement concurrence.pdf NFHWY00788.pdf

6. Will there be an adverse effect on a historic property?	☐	☑

Summary
Summarize impacts to historic properties and mitigation, if any. List affected sites (by AHRS number only) and any commitments or mitigative measures. Also include any project-specific commitments or mitigative measures in Section V.

Findings Letters were distributed by the Statewide PQI on 11/15/2024 and with a Direct to Findings worksheet completed of No Historic Properties Affected for the project. SHPO concurred on 12/12/2024.

An update to the project was made with a 106 PA to accommodate for minor utility relocations within the existing ROW on 2/27/2025.

E. Section 4(f)/6(f) Impacts

	Yes	No
1. Section 4(f) (23 CFR 774)		
a. Was detailed Section 4(f) resource identification conducted for this project, other than that required for Section 106 compliance?	☑	☐
b. Does a Section 4(f) resource exist within or adjacent to the project area?	☐	☑
2. Section 6(f) (36 CFR 59)		
a. Does a Section 6(f) Land and Water Conservation Fund Act (LWCFA) resource exist within or adjacent to the project area?	☐	☑

Summary
Summarize Section 4(f)/6(f) involvement, if any.

There are no Section 4(f) resources within or adjacent to the project area therefore the requirements of Section 4(f) do not apply.

F. Contaminated Sites and Hazardous Materials Impacts	Yes	No
1. Include source, link, and date accessed of databases used.		
DEC Contaminated Sites, https://www.arcgis.com/home/item.html?id=315240bfbaf84aa0b8272ad1cef3cad3, 5/5/2025		
2. Are there known or potentially contaminated sites within or adjacent to the existing ROW?	☐	☑
3. Would a documented hazardous material site be acquired?	☐	☑
4. Are there contaminated sites within 1,500 feet of where excavation dewatering is anticipated?	☐	☑

Summary
Summarize the contaminated site impacts and mitigation, if any.

No contaminated or hazardous sites are located within or adjacent to the project area therefore no impacts are anticipated as a result of this project.

G. Floodplain Impacts (23 CFR 650, Subpart A)	Yes	No
1. Does the project encroach into a mapped base floodplain or a potential unmapped base floodplain?	☑	☐

Attachments

- LHS NFHWY00788.pdf
- Public Involvement Documentation NFHWY00788.pdf

a. Does the project encroach into a regulatory floodway?	☑	☐
b. Would the proposed action increase the base flood elevation (BFE) one-foot or greater, or cause any rise in a regulatory floodway?	☐	☑
c. Is there a longitudinal encroachment into the 100-year floodplain?	☐	☑
d. Is there significant encroachment as defined by 23 CFR 650.105(q)?	☐	☑
2. Does the project conform to local flood hazard requirements?	☑	☐
3. Is the project consistent with E.O. 11988 (Floodplain Protection)?	☑	☐

Summary
Describe any encroachments into mapped and unmapped floodplains and summarize impacts. For c(26, 27, or 28) CE classifications describe whether encroachments are functionally dependent.

The risks associated with the replacement bridge are considered low for ice-free discharges. The introduction of the piers to the channel increases flooding risk during spring breakup. Additional mitigation of the risks associated with ice jam flooding will be considered as part of the project. However, the proposed project would not involve a significant encroachment, nor would it include elements that support incompatible floodplain development, permanently impact floodplain values, nor increase the likelihood of flooding to adjacent property. The project will not likely cause an interruption or termination of a transportation facility needed for emergency vehicles or as an evacuation route. The natural and beneficial floodplain values that are present today will not be adversely impacted as a result of the new bridge.

H. **Wetland and Waterbody Impacts**	Yes	No
1. Would the project affect wetlands or other Waters of the U.S. (WOTUS), as defined by the U.S. Army Corps of Engineers (USACE) (Section 404).	☑	☐
2. Wetlands?	☑	☐
a. Are the wetlands delineated in accordance with the "Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Alaska Region (Version 2.0) Sept. 2007"?	☑	☐
b. Estimated area of wetland involvement (acres): 1.5		
c. Estimated fill quantity: 3500 cubic yards		
d. Estimated dredge quantities: ___ cubic yards		
e. Wetlands Finding		
i. Are there practicable alternatives to the proposed construction in wetlands?	☐	☑
ii. Does the project include all practicable measures to minimize harm to wetlands?	☑	☐
iii. Only practicable alternative: Based on the evaluation of avoidance and minimization alternatives, there are no practicable alternatives that would avoid the project's impacts on wetlands. The project includes all practicable measures to minimize harm to the affected wetlands as a result of construction.	☑	☐
3. Waters?	☑	☐
a. Estimated fill quantities below:		
OHW: 5000 cubic yards		
MHW: 0 cubic yards		
HTL: 0 cubic yards		
b. Estimated dredge quantities: 0 cubic yards		
4. Does the project involve work within or over navigable waters as defined by the USACE (Section 10)?	☑	☐
5. Proposed waterbody involvement:	☑	☐
• Bridge • Embankment Fill • Permanent		
6. Is a USACE authorization anticipated?	☑	☐
• Nationwide Permit		
7. Will the project involve navigable waters as defined by the U.S. Coast Guard (USCG) (Section 9)?	☑	☐
a. Does a 144(c) exception apply?	☐	☑
b. Is a USCG Bridge permit required?	☑	☐

H. Wetland and Waterbody Impacts	Yes	No
8. Will the project affect a designated Wild and Scenic River or land adjacent to a Wild and Scenic River, including those on the Nationwide Rivers Inventory?	☐	☑

Summary
Summarize wetland and waterbody impacts and mitigation, if any.

The proposed project will impact approximately 1.5 acres of wetlands and waters of the U.S. for embankment repairs and replacement of the bridge.

This portion of the Nenana River is considered a USCG Navigable Waterway. This project is proposing a full bridge replacement and will require an Advanced Approval from USCG. A USACE NWP permit is also anticipated for placement of fill in the river and within the project corridor.

I. Fish and Wildlife Impacts	Yes	No
1. Anadromous and resident fish habitat.		
a. Include source, link, and date accessed of databases used.		
ADF&G Anadromous Waters Catalog, https://experience.arcgis.com/experience/1a4eb07b42ff4ebb8c71ba45adaedf0c/, 5/5/2025		
b. Is anadromous or resident fish habitat present in project area (Title 16.05.841 and 16.05.871)?	☑	☐
c. Are there adverse effects on spawning habitat?	☐	☑
d. Are there adverse effects on rearing habitat?	☐	☑
e. Are there adverse effects on migration corridors?	☐	☑
f. Are there adverse effects on subsistence species?	☐	☑
g. Are there temporary impacts to fish habitat?	☑	☐
2. Essential Fish Habitat (EFH).		
a. Include source, link, and date accessed of databases used.		
NOAA Alaska EFH Mapper, https://noaa.maps.arcgis.com/apps/webappviewer/index.html?id=66d51e1a1c34468bb766f6ec1b6f58d9, 5/5/2025		
b. Is EFH present in project area?	☐	☑
3. Threatened and Endangered (T&E) Species		
a. Include source, link, and date accessed of databases used.		
USFWS IPaC, https://ipac.ecosphere.fws.gov/location/NATFKRJU45CNTDLDZXNADCFLWE/resources#endangered-species, 5/5/2025		
b. Are listed threatened or endangered species present in the project area?	☐	☑

I. Fish and Wildlife Impacts	Yes	No
4. Marine Mammals.		
a. Is the project located in the marine environment?	☐	☑
b. Enter beginning and ending dates of MMPA consultation.		
5. Wildlife Resources:		
a. Is the project in an area of high wildlife/vehicle accidents?	☐	☑
b. Would the project bisect migration corridors?	☐	☑
c. Would the project segment habitat?	☐	☑
6. Bald and Golden Eagle Protection Act.		
a. Include source, link, and date accessed of databases used.		

USFWS IPaC, https://ipac.ecosphere.fws.gov/location/NATFKRJU45CNTDLDZXNADCFLWE/resources#endangered-species, 5/5/2025

b. Is the project visible from an eagle nesting tree?	☐	☑
c. Is the project within 330 feet of an eagle nesting tree?	☐	☑
d. Is the project within 660 feet of an eagle nesting tree?	☐	☑
e. Will the project require blasting or other activities that produce extreme loud noises within 1/2 a mile from an active nest?	☐	☑
f. Is an eagle permit required?	☐	☑
7. Is the project consistent with the Migratory Bird Treaty Act?	☑	☐

If project is not likely to adversely affect or likely to adversely affect, enter beginning and ending dates of ESA consultation.

Summary
Summarize fish and wildlife impacts and mitigation, if any.

Since this stream is considered anadromous, an ADFG Fish Habitat Permit will be required due to the replacement of the bridge.

Bald and golden eagles may occur within the project area, USFWS recommends that if eagles are present within the project area to avoid construction during their nesting season (March 1 to August 31) and that if there are any eagle nests that occur during construction within a half mile of the project activities to use methods that reduce impacts on eagles.

Mechanized vegetation/land clearing activities will be avoided during the migratory bird nesting season (May 1-July 15) unless a mitigative work plan is submitted by the contractor and approved by DOT&PF.

J. **Invasive Species Impacts**	Yes	No
1. Include source, link, and date accessed of databases used.		
AKEPIC, https://akepic.portal.axds.co/#map, 5/5/2025		
2. Are invasive species present in project area?	☑	☐
3. Does the project include all practicable measures to minimize the introduction or spread of invasive species, making the project consistent with E.O. 13112 (Invasive Species)?	☑	☐

Summary
Summarize invasive species impacts and mitigation, if any.

The following invasive species are within the project area: white sweetclover, yellow sweetclover, smooth brome, and common plantain.

Practicable measures to minimize the introduction or spread invasive species would include: 1) Avoiding the use of listed noxious species for landscaping and erosion control purposes, 2) Sequencing construction activities to minimize disturbed areas, 3) Timely seeding of project disturbed areas with non-invasive species providing adequate cover. With implementation of these practicable measures, the project is expected to result in no substantial invasive species impacts.

K. **Water Quality Impacts**	Yes	No
1. Will there be temporary degradation of water quality?	☑	☐
2. Is a public or private drinking water source or protection area within or adjacent to the project?	☐	☑
3. Would the project result in a discharge of storm water to a WOTUS? [40 CFR 230.3(o)]	☑	☐
4. Would the project discharge storm water into or affect an ADEC-designated Impaired Waterbody?	☐	☑
5. Will the project involve more than one (1) acre of ground-disturbing activities?	☑	☐
6. Is there a Municipal Separate Storm Sewer System (MS4) APDES permit, or will runoff be mixed with discharges from an APDES permitted industrial facility?	☐	☑

Summary
Summarize the water quality impacts and mitigation, if any.

Project storm water will discharge into the Nenana River in the project area. Sedimentation is expected to be minimal and best management practices (BMPs) will be implemented for the purpose of meeting state and federal water quality standards. A project-specific Erosion and Sediment Control Plan (ESCP) will be developed prior to construction initiation. A Storm Water Pollution Prevention Plan (SWPPP) will be developed and implemented by the construction contractor. The SWPPP will comply with the Alaska Pollution Discharge Elimination System (APDES) Genal Permit for Construction Activities.

L. **Air Quality Impacts**	Yes	No
1. Will there be temporary degradation of air quality?	☑	☐
2. Is the project located in an air quality maintenance area or nonattainment area (CO or PM-10 or PM-2.5)?	☐	☑

Summary
Summarize air quality impacts and mitigation, if any.

The project is not located within a nonattainment area. Temporary degradation of air quality may occur from the use of the heavy equipment through emissions and airborne particulates. To mitigate for air quality, the contractor will provide watering of dust prone areas during construction.

M. Noise Impacts (23 CFR 772)	**Yes**	**No**
1. Will there be temporary noise impacts?	☑	☐
2. Does the project involve any of the following Type I project actions listed below (23 CFR 772.5)?	☐	☑

Summary
Summarize noise impacts and mitigation, if any.

The proposed project is not a Type 1 project therefore, a noise analysis is not required. Noise impacts during construction of the road will be minimal and temporary.

N. Social and Economic Impacts	**Yes**	**No**
1. Would the project affect neighborhoods or community cohesion?	☐	☑
2. Would the project affect school boundaries, recreation areas, churches, businesses, police and fire protection, etc.?	☑	☐
3. Would the project affect the elderly, handicapped, non-drivers, transit-dependent, minority and ethnic groups, or the economically disadvantaged?	☐	☑
4. Would the project affect travel patterns and accessibility (e.g., vehicular, commuter, bicycle, or pedestrian)?	☑	☐
a. Would the project include temporary delays and detours of traffic?	☑	☐
5. The project will have adverse economic impacts on the regional and/or local economy, such as effects on development, tax revenues and public expenditures, employment opportunities, accessibility, and retail sales.	☐	☑
6. The project will adversely affect established businesses or business districts.	☐	☑
a. Would the project have temporary impacts on businesses?	☑	☐

Summary
Summarize social and economic impacts and mitigation, if any.

The Tatlanika Trading Company and RV Park are adjacent to the project area and may experience congestion during temporary delays of traffic and increase in noise during construction.

The project will not have adverse social or economic impacts to the surrounding community or businesses. During construction, short term traffic delays and interruptions may occur throughout the project but access to businesses and recreation areas will remain open. To minimize delays, the contractor will provide DOT&PF with a traffic control plan prior to construction. In the long term, the project will maintain existing travel patterns and improve accessibility by providing an improved roadway surface and associated features that extend the life of the roadway.

III. Comments and Coordination

A. Public Involvement	Yes	No
1. Was public involvement for project completed?	☑	☐
2. Was the project public noticed?	☑	☐
a. Newspaper name and date of notice:	☑	☐

Daily Newsminer, 8/25/2024 & 9/4/2024

Attachments

- Daily News Miner Ad.pdf NFHWY00788.pdf

b. Alaska Online Public Notice date:	☑	☐

8/14/2024

Attachments

- NFHWY00788 OPN.pdf NFHWY00788.pdf

c. Were public notices completed for specific resource impacts (e.g., floodplain, Section 4(f))?	☑	☐

Attachments

- NFHWY00788 OPN NFHWY00788 (1).pdf

3. Was a public meeting held?	☐	☑
4. Is there any unresolved controversy on human, natural, or economic grounds?	☐	☑

Summary
Summarize public comments and coordination efforts for this project. Discuss pertinent issues raised.

No comments were received during the public scoping period, see attached OPN for resource specific impacts.

B. Agency Involvement	Yes	No
1. Was an agency scoping conducted?	☑	☐

A scoping letter was sent to agencies on August 12, 2024.

Attachments

- NFHWY00788 Agency Scoping Letter Signed.pdf NFHWY00788.pdf

2. Was an agency scoping meeting held?	☐	☑
3. Was a field review completed with agencies?	☐	☑

Summary
Summarize agency coordination efforts for this project.

Agency scoping letters were sent on August 12, 2024. Comments received during the scoping period were received from DEC Contaminated Sites, USACE, and the Denali Borough. Comments received were confirming no contaminated sites, USACE permit requirements, and recommendations from the borough. Full comment summary is attached.

Comments received from USCG suggest that an Advanced Approval may be applicable to this project. Correspondence with USCG is attached.

Attachments

- NFHWY00788 Agency Coment Response Summary.pdf NFHWY00788.pdf
- USCG - Clint Scott.pdf NFHWY00788.pdf

IV. Permits and Authorizations

A. Permits and Authorizations	Yes	No
1. USACE, Section 404/10 Includes Abbreviated Permit Process, Nationwide Permit, and General Permit	☑	☐
2. Coast Guard, Section 9	☐	☑
3. ADF&G Fish Habitat Permit (Title 16.05.871 and Title 16.05.841)	☑	☐
4. Flood Hazard	☐	☑
5. ADEC Non-domestic Wastewater Plan Approval	☐	☑
6. Requires 401 Cert	☐	☑
7. ADEC APDES	☑	☐
8. Eagle Permit	☐	☑
9. Incidental Take Authorization	☐	☑
10. Local (Borough or City) permit (e.g., noise)	☐	☑
10. Other Permits	☐	☑

Summary

A USACE NWP, USCG Advanced Approval, and ADFG Fish Habitat permits are anticipated for this project.

V. Environmental Commitments

A. Environmental Commitments and Mitigation Measures [23 CFR 771.109(b)]	Yes	No
1. Are there project-specific environmental commitments for this project?	☑	☐

Summary
List all environmental commitments and mitigation measures included in the project.

DOT&PF and their Contractor(s) shall:

- Mechanized land/vegetation clearing activities will be avoided during the migratory bird nesting season (May 1-July 15) unless a mitigative work plan is submitted by the contractor and approved by DOT&PF.

- Contractors will maintain access to the Tatlanika Trading Company & RV Park during construction.

VI. Environmental Documentation Approval

A. Environmental Documentation Approval	Yes	No
1. Do any unusual circumstances exist, as described in 23 CFR 771.117(b)?	☐	☑
2. Does the project meet the criteria of one of the following DOT&PF Programmatic Approvals authorized in the Nov. 13, 2017 "Chief Engineer Directive - Programmatic Categorical Exclusions"?	☑	☐

- Programmatic Approval 2

Summary

This project qualifies as a PCE.

Environmental Documentation Approval Signatures

Prepared by:  Date: 6/4/2025

Zoe Petersen

Environmental Impact Analyst III

Reviewed by:  Date: 6/4/2025

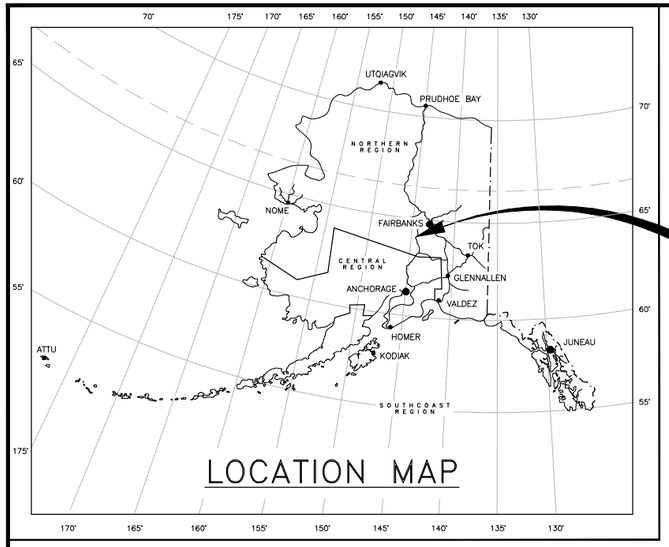
John J Netardus

Engineer/Architect III

Approved by:  Date: 6/4/2025

Kerri Martin

Regional Environmental Manager



LOCATION MAP

PROJECT LOCATION

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0A44023/NFHWY00788	2026	A1	78
CDS ROUTE: 170000	MILEPOINT: 237.824 TO 241.228			

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
&
PUBLIC FACILITIES

PROPOSED HIGHWAY PROJECT

0A44023/NFHWY00788

PARKS HWY NENANA RIVER BRIDGE REPLACEMENT #0216 AT REX

GRADING, DRAINAGE, PAVING, BRIDGE(S)

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
A1	TITLE SHEET
A2	LEGEND & SHEET LAYOUT INDEX
A3 – A4	SURVEY CONTROL
A5	ALIGNMENT INDECES
B1–B2	TYPICAL SECTIONS
C1	ESTIMATE OF QUANTITIES
D1	SUPERELEVATION SUMMARY
D2–D3	GUARDRAIL SUMMARY & DETAILS
F1–F5	PLAN & PROFILE
G1	DRIVEWAY SUMMARY
G2	EAST PULLOUT DETAIL SHEET
G3	ACCESS DETAILS
H1	SIGNING SUMMARY
N1–N35	BRIDGE PLANS
Q1–3	EROSION SEDIMENT CONTROL PLANS
V1–V20	STANDARD PLANS

THE FOLLOWING STANDARD PLANS APPLY TO THIS PROJECT:
C–06.00
G–00.05, G–04.00, G–05.11, G–10.21, G–20.12, G–33.01
M–25.00
S–00.12, S–01.02, S–05.02, S–20.11, S–31.02, S–32.02

DESIGN DESIGNATIONS

ADT (2024)	1,240
ADT (2036)	1,314
DHV (52%)	171
PERCENT TRUCKS (T)	19.15%
DIRECTIONAL SPLIT (D)	52%/48%
DESIGN SPEED (V)	65 MPH
DESIGN ESALS (20 YEARS)	788,801

PROJECT SUMMARY

WIDTH OF PAVEMENT	40'
LENGTH OF GRADING	0.4 MILES
LENGTH OF PAVING	0.5 MILES
LENGTH OF PROJECT	0.6 MILES

JOHN NETARDUS, P.E., PROJECT MANAGER
ETHAN MAHONEY, DESIGNER

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
&
PUBLIC FACILITIES

APPROVED BY:

_____ DATE _____

Albert Beck, P.E.
Preconstruction Engineer, Northern Region

ACCEPTED FOR CONSTRUCTION:

_____ DATE _____

Lauren Little, P.E.
Acting Regional Director, Northern Region

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0A44023/NFHWY00788	2026	A2	A5

	RECOVERED	SET
BLM MONUMENT	✠	
GLO MONUMENT	✠	
USC&GS MONUMENT	▲	
PRIMARY MONUMENT	✠	✠
CENTERLINE MONUMENT IN CASING	⊕	⊕
PRIMARY R.O.W. MONUMENT	⊕	◕
BEARING OBJECT	✳	
MISCELLANEOUS MONUMENT	⊗	
LINE OF SIGHT MONUMENT		⊕
CONCRETE R.O.W. MONUMENT	■	
BENCHMARK		BM
REBAR AND CAP	⊙	⊙
REBAR	⊕	●
IRON PIPE	◉	
PK NAIL		▽
SPIKE		✕
HUB AND TACK		⊡
CONSTRUCTION CENTERLINE	5+00	
MISCELLANEOUS CENTERLINE	10+00	
STATION EQUATION	"L"48+97.23 POT BK= "O"48+97.23 PC AHD	
PROJECT RIGHT-OF-WAY LINE	R/W	
EXISTING RIGHT-OF-WAY LINE		
EXISTING PROPERTY LINE		
CONTROLLED ACCESS LINE	C/A	
UTILITY EASEMENT LINE	PUE	
TEMPORARY EASEMENT LINE (TCP OR TCE)	TCP	
ACCESS OR SECTION LINE EASEMENT	ACCESS EASEMENT	
PROPOSED CUT SLOPE LIMIT		
PROPOSED FILL SLOPE LIMIT		
SECTION LINE		
1/4 SECTION LINE		
1/16 SECTION LINE		
TOWNSHIP & RANGE LINE	T. 2 N. / T. 1 N. ; T. 1 E. / T. 2 E.	

	EXISTING	PROPOSED
SANITARY SEWER (FLOW DIRECTION →)	SS	SS
FUEL LINE	O	O
GAS LINE	G	G
WATER LINE	W	W
METER, VALVE, FIRE HYDRANT	W	W
EXISTING STORM DRAIN (FLOW DIRECTION →)	SD	
PROPOSED STORM DRAIN		S-10, S-11, P-11, P-10, MH
FIBER OPTIC LINE	FO	
DIRECT BURIAL TELEPHONE CABLE	T	T
DIRECT BURIAL ELECTRIC CABLE	E	E
ELECTRIC LINE (OVERHEAD)		
POWER POLE LINE		
JOINT USE POWER & TELEPHONE		
TELEPHONE POLE LINE		
POLE ANCHOR		
STUB POLE (POWER OR TELEPHONE)		
TELEPHONE DUCT	T	T
TELEPHONE PEDESTAL		
BURIED CABLE MARKER		
PIPELINE MARKER OR VALVE		
CATCH BASIN OR DROP INLET		
MANHOLE	MH	MH
SANITARY SEWER CLEAN OUT		

	EXISTING	PROPOSED
ROADWAY/PAVEMENT EDGE		
FENCE		
CURB AND GUTTER		
DETECTABLE WARNINGS		
GUARDRAIL		
CULVERT PIPE		
SIGN		
MAILBOX	MB	MB
RAILROAD TRACKS		
RAILROAD DEVICES	CROSS-BUCK, FLASHING LIGHT	CANTILEVER, SWITCH
TREE LINE		
WATER BOUNDARY		
ORDINARY HIGH WATER LINE		
FLOW CENTERLINE		
FLOW DIRECTION		
WETLANDS		
EXISTING BUILDINGS	H = HOUSE, G = GARAGE, M = MERCHANT/STORE, B = BARN, S = SHED, P = PRIVY, SS = SERVICE STATION, W = WAREHOUSE	
POST OR BOLLARD		
WELL OR MONITORING WELL	W	
SEPTIC PIPE	S, MW	
FUEL TANK FILL PIPE/VENT	P	
SATELLITE DISH	SAT. DISH	
TEST HOLE	TH	
CONIFER TREE		
DECIDUOUS TREE		
GRAVE		
THERMOSIPHON		
PARKING METER		
VEHICLE PLUG-IN		
DELINEATOR/GUIDE MARKER		

	EXISTING	PROPOSED
JUNCTION BOX, TYPE IA		5
JUNCTION BOX, TYPE II		6
JUNCTION BOX, TYPE III		3
SIGNAL FACE, VEHICULAR	42	42
SIGNAL FACE, BACKPLATE	42	42
SIGNAL FACE, LEFT TURN, BACKPLATE	43	43
SIGNAL FACE, PEDESTRIAN		
LOOP DETECTOR	33	73
VIDEO DETECTOR	2	2
RADAR DETECTOR	4	4A
OPTICOM DETECTOR	1	1
PEDESTRIAN PUSH BUTTON	1	1
SIGNAL POST W/O MAST ARM		1
SIGNAL POLE W/MAST ARM		4
SIGNAL CONTROLLER		
LOAD CENTER		
LUMINAIRE		22
RIGID METAL CONDUIT		

ABBREVIATIONS:

APPROX	APPROXIMATLY
℄	CENTERLINE
CY	CUBIC YARD
E	EAST, EASTING
ELE, ELEV	ELEVATION
FT. '	FOOT, FEET
H	HORIZONTAL
HW/D	HEADWATER TO DIAMETER RATIO
IE	INVERT ELEVATION
IN, "	INCH, INCHES
L	LENGTH OF CURVE
L.C.L	LEFT OF CENTERLINE
LT	LEFT
LVC	LENGTH OF VERTICAL CURVE
MAX	MAXIMUM
MIN	MINIMUM
N	NORTH, NORTHING
NO.	NUMBER
NTS	NOT TO SCALE
O.C.	ON CENTER
PC	POINT OF CURVATURE
POT	POINT ON TANGENT
PST	PERFORATED STEEL TUBE
PT	POINT OF TANGENCY
PVI	POINT OF VERTICAL INTERSECTION
R	RADIUS
R.C.L	RIGHT OF CENTERLINE
RT	RIGHT
RWIS	ROAD WEATHER INFORMATION SYSTEM
S	SOUTH
SQ. FT.	SQUARE FOOT
STA	STATION
T	TANGENT
TCE	TEMPORARY CONSTRUCTION EASEMENT
TS	TUBE STEEL
TYP	TYPICAL
V	VERTICAL
VPC	VERTICAL POINT OF CURVATURE
VPI	VERTICAL POINT OF INTERSECTION
VPT	VERTICAL POINT OF TANGENCY
W	WEST
WWR	WELDED WIRE REINFORCEMENT
Ø	DIAMETER

STATE OF ALASKA 49TH
JOHN JARO NETARDUS
NO. CE 124494
REGISTERED PROFESSIONAL ENGINEER

LEGEND & ABBREVIATIONS

PLANS DEVELOPED BY: STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES, NORTHERN REGION, 2301 PEGER ROAD, FAIRBANKS, AK 99709 (907)451-2200
H:\Projects\Parks_Hwy\NFHWY00788 Nenana River Bridge at REX Replacement\6 Design\4 C3D\2 Drawings\00788_A-A2 LEGEND & ABBREVIATIONS Thu, Sep/25/25 02:23pm

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0A44023/NFHWY00788	2026	F2	F5

MATCH "O" 52+50 LINE

MATCH "O" 67+00 LINE

R/W

R/W

R/W

R/W

R/W

54+68 (10) REMOVE

"Flood Control" 10+00.00 POT

+37.00, 20.00' LT END TAPER

4"W

4"DY

55+00

60+00

65+00

11 59+93 REMOVE

12 59+98 REMOVE

+84.00, 20.00' LT BEGIN TAPER

+16.44, 20.10' LT BEGIN TAPER

61+28 (15) REMOVE

+33.96, 22.00' LT END TAPER

+66.44, 22.10' LT END TAPER

DISCONNECT AND REMOVE RWIS

N 81°05'12" E ~ 4872.07'

+40.00, 20.00' RT BEGIN TAPER

8' SHOULDER
12' LANE
12' LANE
8' SHOULDER

54+28 (07) D9-3, D9-12

54+51 (08) I-3

54+66 (09) REMOVE

BEGIN BRIDGE STA 54+60.00

END BRIDGE STA 60+28.00

16 61+75 D7-100

17 61+98 REMOVE

18 62+47 I-225

19 63+84 D10-103 (2)

TCE

TCE

60+00 (13) REMOVE

14 60+55 I-3

REALIGN ACCESS TO BRIDGE AND TATLANIKA DRIVEWAY

STATE OF ALASKA 49TH
JOHN JARO NETARDUS
NO. CE 124494
REGISTERED PROFESSIONAL ENGINEER

VPI 55+36.00
ELEV = 745.38
LVC = 1000.00'

VPT 60+36.00
ELEV = 740.38

PROFILE GRADE

VPC 63+50.00
ELEV = 737.23

-1.00%

VPI 66+00.00
ELEV = 734.73
LVC = 500.00'

EXISTING GROUND

PROFILE GRADE
EXISTING GROUND

750 740 730 720 710

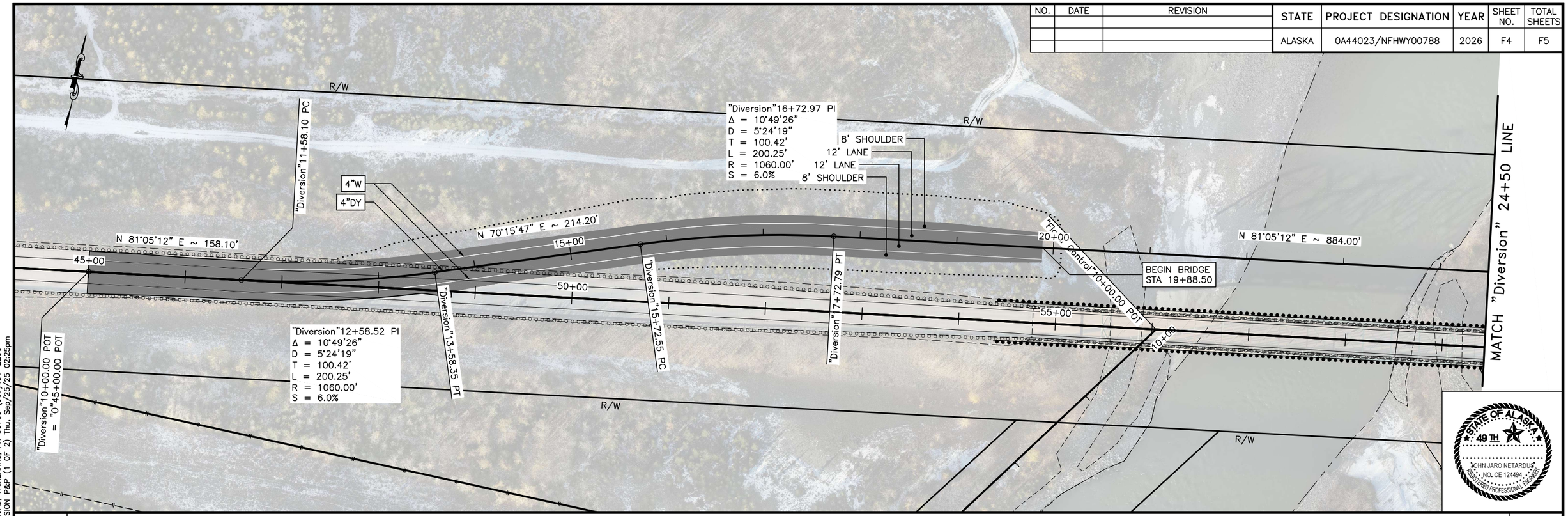
737.43	738.26	739.66	740.71	741.41	741.76	741.76	741.41	740.71	739.73	738.73	737.73	736.81	736.41	736.61	737.41
737.4	738.3	739.7	740.7	741.4	741.8	741.8	741.4	740.7	739.7	738.7	737.7	736.8	736.4	736.6	737.4

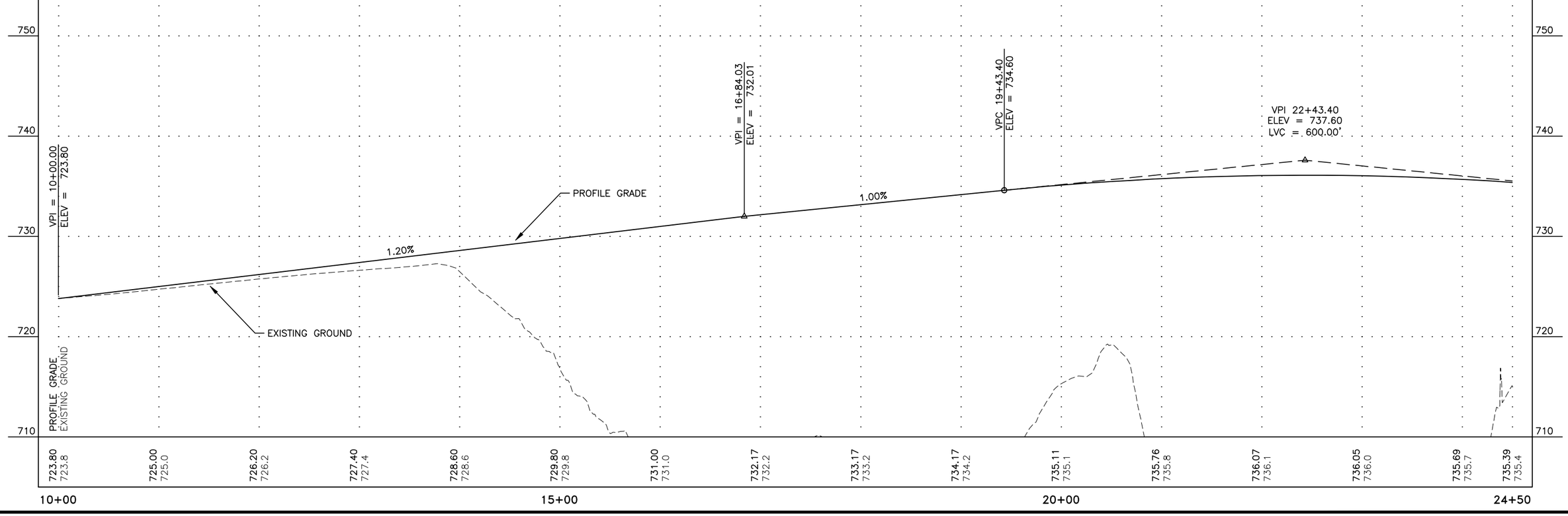
52+50 55+00 60+00 65+00 67+00

PLANS DEVELOPED BY: STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES, NORTHERN REGION, 2301 PEGER ROAD, FAIRBANKS, AK 99709 (907)451-2200
H:\Projects\Parks_Hwy\NFHWY00788 Nenana River Bridge at REX Replacement\6 Design\4 C3D\2 Drawings\00788_P&P-F2 P&P (2 OF 3) Thu, Sep/25/25 02:24pm

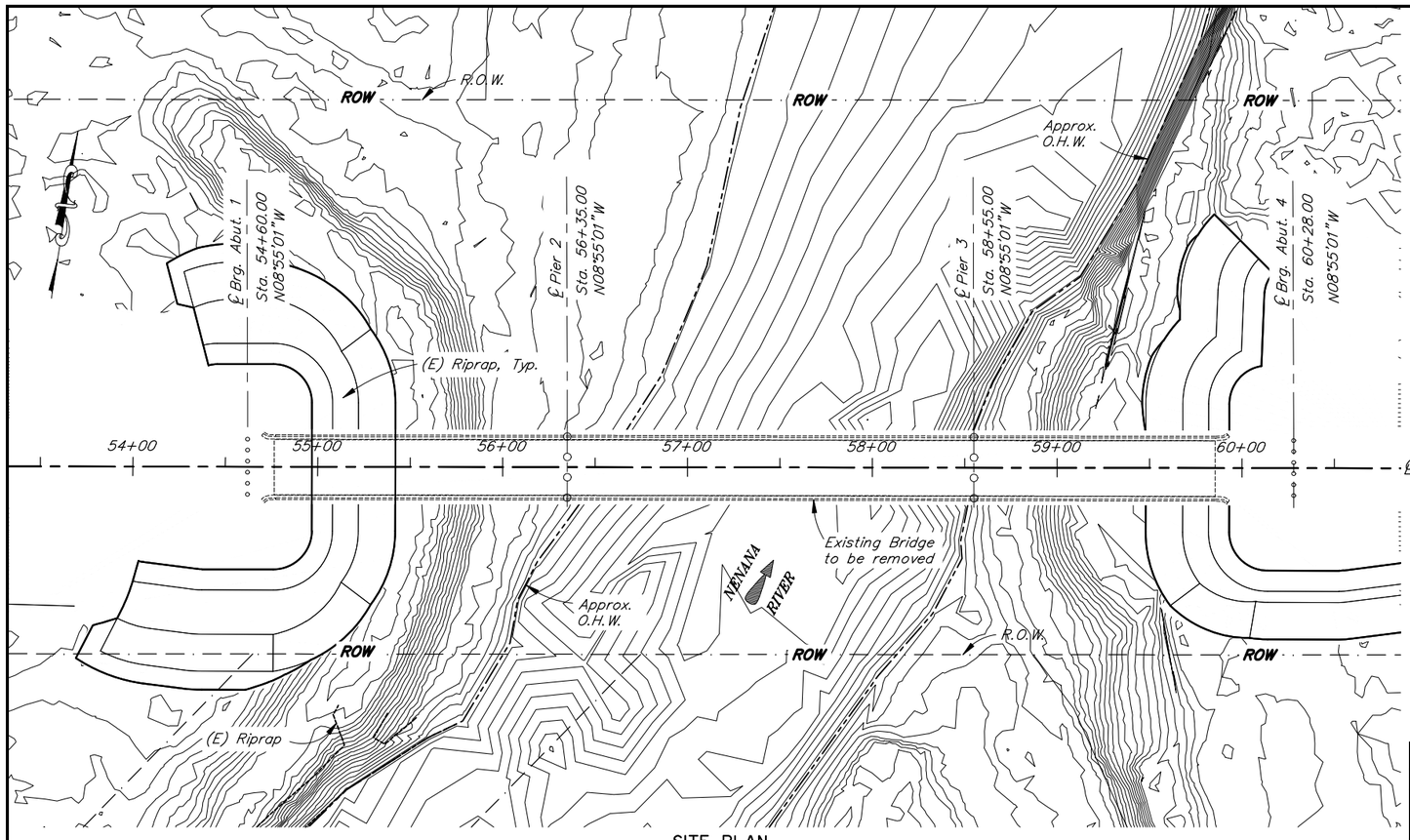
NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0A44023/NFHWY00788	2026	F4	F5





PLANS DEVELOPED BY: STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES, NORTHERN REGION, 2301 PEGER ROAD, FAIRBANKS, AK 99709 (907)451-2200
H:\Projects\Parks_Hwy\NFHWY00788 Nenana River Bridge at REX Replacement\6 Design\4 C3D\2 Drawings\00788_P&P-F4 DIVERSION P&P (1 OF 2) Thu, Sep/25/25 02:25pm



SITE PLAN

10 0 40 80
Feet

GENERAL NOTES

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	NFHWY00788	2026	N2	TtlShts

DESIGN: AASHTO LRFD Bridge Design Specifications, 2020 Edition, with latest interim specifications.

Seismic design per AASHTO Guide Specifications for LRFD Seismic Bridge Design, 2011 with latest interim revisions.

LIVE LOAD: HL-93

DEAD LOAD: Includes 50 psf for all wearing surfaces.

SEISMIC PARAMETERS: Seismic Design Category = D
Site Class = D
Liquefaction Potential = High
AASHTO Risk – Targeted Ground Motions, 1.5% targeted risk in 75 years.
Selected acceleration coefficients shown below:

SITE ADJUSTED SPECTRAL ACCELERATION COEFFICIENTS (S_a)			
PERIOD (SEC)	ACCELERATION (g)	PERIOD (SEC)	ACCELERATION (g)
0.00	0.51	1.00	0.83
0.10	0.72	1.50	0.62
0.25	1.10	2.00	0.49
0.50	1.17	3.00	0.32
0.75	0.97	4.00	0.23

REINFORCEMENT: ASTM A706, Grade 60, Fy = 60,000 psi
ASTM A970 Headed bars, Class HA.
Space reinforcement evenly unless otherwise noted.

PRESTRESSED CONCRETE: See "GIRDERS" Dwg.

CONCRETE: Class A Concrete unless otherwise noted, f'c = 4000 psi

STRUCTURAL STEEL: ASTM A709, Grade 36T3, Fy = 36,000 psi
Galvanize structural steel in accordance with AASHTO M111 unless shown otherwise.

STRUCTURAL STEEL PILING: API 5L X52 PSL2, Fy = 52,000 psi. or
ASTM A709, GR50T3, Fy = 50,000 psi.
Pile Tip reinforcing is required.

PILE DATA TABLE

LOCATION	PILE TYPE	DRIVING CRITERIA: MINIMUM PENETRATION (ft)	DRIVING CRITERIA: ESTIMATED PILE TIP ELEVATION (ft)	DRIVING CRITERIA: DRIVING RESISTANCE (K)	DESIGN DATA: STRENGTH I FACTORED LOAD (K)	DESIGN DATA: NOMINAL RESISTANCE (K)	DESIGN DATA: RESISTANCE FACTOR, ϕ
Abutment 1							
Pier 2							
Pier 3							
Abutment 4							

ESTIMATE OF QUANTITIES

ITEM NO.	ITEM	PAY UNIT	ESTIMATING UNIT	SUBSTRUCTURE	SUPERSTRUCTURE	TOTAL QUANTITY
202.0023.0000	Removal of Bridge No. 216	LS	SF	All Req'd		All Req'd
205.0006.0000	Structural Fill	CY	CY	1,315		1,315
501.0001.0000	Class A Concrete	LS	CY	754.3	56.1	810.4
501.0002.0000	Class A-A Concrete	LS	CY		752.6	752.6
503.0001.0000	Reinforcing Steel	LS	LBS	134,430		134,430
503.0002.0000	Epoxy-Coated Reinforcing Steel	LS	LBS		117,009	117,009
504.0001.0000	Structural Steel	LS	LBS		1,188,970	1,188,970
505.0005.0000	Furnish Structural Steel Piles, 2'-0" Dia. x 1/2" Pipe Pile	LF	LF	1,800		1,800
505.0005.0000	Furnish Structural Steel Piles, 4'-0" Dia. x 1" Pipe Pile	LF	LF	1,720		1,720
505.0006.0000	Drive Structural Steel Piles, 2'-0" Dia. x 1/2" Pipe Pile	EACH	EA	12		12
505.0006.0000	Drive Structural Steel Piles, 4'-0" Dia. x 1" Pipe Pile	EACH	EA	8		8
507.0001.0002	Steel Bridge Railing, 2-Tube	LF	LF		1,228	1,228
508.0001.0000	Waterproofing Membrane, Spray-Applied	LS	SF		24,560	24,560
520.0001.0000	Temporary Crossings	LS	SF		All Req'd	All Req'd
606.0016.0000	Transition Rail	EACH	EA		4	4
611.0001.0001	Riprap, Class I	CY	CY	1,575		1,575
611.0001.0003	Riprap, Class III	CY	CY	9,175		9,175

Item numbers are for reference only. Quantities shown are not necessarily the pay quantities nor the total quantity of the particular item.

ABBREVIATIONS:

℄	= centerline	e.w.	= each way	max.	= maximum
℗	= plate	Ext.	= exterior	min.	= minimum
&	= and	F	= fixed	MSE	= mechanically stabilized earth
@	= at	f.f.	= front/air face	n.f.	= near face
ø	= diameter	f'c	= specified concrete compressive strength	No.	= 216ber
±	= approximate	f'ci	= specified concrete compressive strength at release	o.c.	= on center
Abut.	= abutment	Ft.	= feet	pcf	= pounds per cubic foot
Approx.	= approximate	Fy	= yield stress	psf	= pounds per square foot
b.f.	= back/dirt face	Galv.	= galvanize	psi	= pounds per square inch
bot.	= bottom	H.S.	= high strength	R	= radius
Br.	= bridge	Hwy.	= highway	R.O.W.	= right of way
btwn.	= between	ID	= internal diameter	RT.	= right
Brg.	= bearings	Int.	= interior	Rd.	= road
C.A.	= center of gravity	Jt.	= joint	spcs.	= space, spaces
C.I.P.	= cast in place	K	= kips	Sta.	= station
CJP	= complete joint penetration	ksf	= 1000 pounds per square foot	SF	= square feet
Clr.	= clear, clearance	ksi	= 1000 pounds per square inch	SY	= square yard
CY	= cubic yard	LBS or lb	= pounds	Std.	= standard
Dia.	= diameter	LF	= linear foot	Symm.	= symmetric
Dwg.	= drawing	LS	= lump sum	Typ.	= typical
E	= expansion	LT.	= left	UT	= ultrasonic testing
EA	= each			VPC	= point of vertical curve
Elev.	= elevation			VPI	= point of vertical intersection
e.f.	= each face			VPT	= point of vertical tangent
				w/	= with

DESIGNED BY: Designer	CHECKED: Checker	FOUNDATIONS REVIEWED BY: Dave Hernstreet	STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES BRIDGE SECTION 3132 Channel Drive Juneau, Alaska 99801 907-465-2975		NENANA RIVER BRIDGE AT REX PARKS HIGHWAY SITE PLAN
DRAWN BY: Rick Grantham	CHECKED: Designer	**PRELIMINARY PLAN**			BRIDGE NO. 216 DWG. NO. 2
QUANTITIES BY: Designer	CHECKED: Checker				

R:\cad\216\216-02 Thu, Sep/25/25 02:39pm