



State of Alaska
Department of Transportation & Public Facilities

STATE FUNDED PROJECTS ENVIRONMENTAL DOCUMENTATION FORM

I. Project Information

A. Project Name: Nenana-Totchaket Road – Existing Road Rehabilitation

B. State Project Number: NSHWY00657

C. Project Purpose and Need:

The purpose of this project is to rehabilitate and improve the existing 12.1 miles of Totchaket Road. The project is needed to improve the existing access for future agricultural development as well as access for hunting, fishing, and other recreation activities in the area.

D. Project Description:

The Nenana-Totchaket Road project (NSHWY00657) will be phased for construction in order to meet permit timelines. This document addresses the potential environmental impacts resulting **from rehabilitation of the Existing Totchaket Road**. Environmental impacts anticipated for new road construction will be addressed in a separate Nenana-Totchaket Road Extension environmental document.

Phasing of the overall project is as follows:

- **Phase 1(a)** – Construction of improvements to the existing 12-miles of Totchaket Road, including: re-grading and resurfacing. No wetland or in-water work is authorized during this phase of construction.
- **Phase 1(b)** - Replace/Rehabilitate the Little Nenana River, East Middle River, and West Middle River bridges. Construct new and rehabilitate existing drainage structures along the existing Totchaket Road. Construct a new drainage structure at 5-mile Slough on the existing Totchaket Road.
- **Phase 2** – Construct up to 20 miles of new road, extending from the terminus of the existing Totchaket Road, to terminate near the Kantishna River at a parking area and ramp down to the river.

The existing approximately 12.1 mile of Totchaket Road will undergo re-leveling in areas that have experienced settling, flattening of embankment side slopes, installation of new surface course, clearing of vegetation at slope toes, replacement/rehabilitation of three bridge crossings (East Middle, West Middle, and Little Nenana Rivers), construction of an armored high water crossing in a seasonal flood area, and some drainage improvements including culvert replacement and ditch work. Existing turnouts will also be improved, and new turnouts may be constructed as needed to support hauling materials during construction. No realignment of the existing roadway is anticipated.

Material Sites: There are established, commercially available sites (ADL 419389 & ADL 420464) along Totchaket Road and in the Nenana River that may be used by the contractor as well as a Doyon owned material site north of Nenana along the Parks Highway. There are also several existing material sites along the existing road which may be further utilized and expanded at the contractor's discretion.

E. List of Attachments: Nenana-Totchaket Road Project Checklist Appendices A-G

II. Environmental Consequences

➤ For each "yes," summarize the activity evaluated and the magnitude of impact.

- For any consequence category with an asterisk (*), attaching additional information is suggested, such as: an alternatives analysis, agency coordination or consultation, avoidance measures, public notices, or mitigation statement.

A. Land Use and Transportation Plans	<u>YES</u>	<u>NO</u>
<p>1. Identify land use plans for the project area. Include plan name, source/link, and date reviewed. (<i>Borough, Municipality, State, Federal</i>) <i>If no land use plan is available for the project area, skip to A.2.</i></p> <p>The proposed project will take place adjacent to the Nenana-Totchaket Agricultural Project, part of DNR’s Yukon Tanana Area Plan (YTAP). More information on the project can be found at http://dnr.alaska.gov/ag/nentot/. The YTAP was adopted January 3, 2014. The plan was reviewed on 7/22/2022.</p>		
<p>a. Is the project consistent with land use plan(s)?</p>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<p>2. Identify transportation plans for the project area. Include plan name, source/link, and date reviewed. (<i>Borough, Municipality, State</i>) <i>If no transportation plan is available for the project area, skip to A.3.</i></p> <p>DOT&PF Interior Alaska Transportation Plan https://dot.alaska.gov/stwdplng/areaplans/area_regional/assets/iatp/full-iatp.pdf Reviewed: 7/22/2022</p>		
<p>a. Is the project consistent with transportation plan(s)?</p>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<p>3. Would the project induce adverse indirect and cumulative effects on land use or transportation? <i>If yes, attach analysis.</i></p>	<input type="checkbox"/> *	<input checked="" type="checkbox"/>
<p>Summary</p> <p>Summarize how the project is consistent or inconsistent with land use and transportation plan(s).</p> <p>The proposed project will improve access to lands along the existing Totchaket Road that are planned for development under the Nenana-Totchaket Agricultural Project.</p> <p>The proposed project area is referred to in the DOT&PF Interior Alaska Transportation Plan as a potential area for oil and gas exploration, agricultural development, and forestry development. This transportation plan was authored prior to construction of the bridge across the Nenana River and the first 12 miles of Totchaket Road. It identifies the Nenana Basin as a primary focus when discussing resource development in Interior Alaska.</p>		

B. Right-of-Way Impacts	<u>YES</u>	<u>NO</u>
<p>1. Is additional permanent ROW required? <i>If no, skip to C.</i></p>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<p>a. Are there any full parcel acquisitions?</p>	<input type="checkbox"/>	<input type="checkbox"/>
<p>b. Are business or residential relocations required?</p>	<input type="checkbox"/> *	<input type="checkbox"/>
<p>2. Will the project involve temporary work outside of existing ROW?</p>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<p>3. Will there be property transfer from a local, state, or federal agency?</p>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<p>4. Will the project require an ANILCA Title XI approval? <i>If yes, attach evaluation.</i></p>	<input type="checkbox"/> *	<input checked="" type="checkbox"/>
<p>Summary</p> <p>Summarize ROW impacts, if any. Include the number of full and partial acquisitions, permanent easements and relocations. <i>Include any project-specific commitments or mitigative measures in Section V.</i></p>		

B. <u>Right-of-Way Impacts</u>	<u>YES</u>	<u>NO</u>
<p>The existing Totchaket Road is located within a 500' R/W easement owned by the City of Nenana. This easement extends westwards to terminate at a bluff along the Kantishna River floodplain. All work proposed along the existing road will not include acquisition of ROW.</p> <p>ROW required for new road construction will be addressed in a separate Nenana-Totchaket Road Extension environmental document.</p>		

C. <u>Historic Properties and Cultural Impacts</u>	<u>YES</u>	<u>NO</u>
<p>Consider the February 2015 DOT&PF Cultural Resources Confidentiality Guidelines for cultural resource attachments.</p>		
1. Is a National Register of Historic Places listed or eligible property in the proposed Area of Potential Effect (APE)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
2. Was Alaska Historic Preservation Act (AHPA; AS 41.35) Consultation initiated? <i>Attach copies to this form.</i> See Appendix B	<input checked="" type="checkbox"/> *	<input type="checkbox"/>
a. Date Consultation Initiation Letters sent: 1/12/2022		
b. Were any comments received? If yes, list responding consulting parties, comment date, and summarize. Doyon was the sole formal commenter to the initiation letters sent out. On 1/12/2022, Doyon commented that they were “very interested in and supportive of this project”.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3. Was an AHPA “Finding of Effect” completed? <i>Attach copies to this form.</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
a. Date “Finding of Effect” Letters sent: 10/14/2022		
b. State “Finding of Effect”: No historic properties would be adversely affected		
c. Were there any changes to consulting parties? If yes, describe: Click here to enter text.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
d. Were any comments received? If yes, list responding consulting parties, comment date, and summarize: Click here to enter text.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
4. Date Chief, Office of History and Archaeology concurred with “Finding of Effect”: <i>Attach copy to this form.</i> OHA concurrence with the finding of “no historic properties would be adversely affected” and was received on 10/25/2022.		
5. Will there be an adverse effect on a historic property? <i>If yes, attach correspondence and any agreement documents (e.g., MOA).</i>	<input type="checkbox"/> *	<input checked="" type="checkbox"/>
6. Are there any unresolved issues with consulting parties, including project issues or concerns of a federally-recognized Indian Tribe [36 CFR 80016(m)]? <i>If yes, the AHPA consultation process may not be complete. Attach consultation with Statewide Cultural Resources Manager.</i>	<input type="checkbox"/> *	<input checked="" type="checkbox"/>
<p>Summary</p> <p>Summarize consultation process and impacts to historic properties and mitigation, if any. <i>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.</i></p>		

C. <u>Historic Properties and Cultural Impacts</u>	<u>YES</u>	<u>NO</u>
<p>Consultation regarding historic properties and cultural impacts for the proposed rehabilitation of Totchaket Road and the proposed extension of Totchaket Road was conducted at the same time. Addressing all proposed actions in the area was necessary to complete at the same time due to the linked nature of the proposed actions of rehabilitating the existing Totchaket road and extending Totchaket Road.</p> <p>On 1/12/2022, DOT&PF sent letters to initiate consultation with the Alaska Department of Natural Resources (DNR) Office of History and Archaeology (OHA), Doyon Limited, Toghoththele Village Corporation, City of Nenana, Tanana Chiefs Conference, and Nenana Natives Association. An official response to consultation initiation was received from Doyon Limited on 1/12/2022 and OHA on 1/28/2022.</p> <p>Starting 6/6/2022, Stantec Inc. archaeologists conducted pedestrian and aerial cultural resource surveys along the alignments of the existing and proposed road alignments within the 500' wide City of Nenana owned right of way. On 10/1/2022, Stantec Inc. archaeologists conducted further studies of the existing section of Totchaket Road, delineating a site (FAI-02808) identified in June 2022 by a Secretary of Interior (SOI) qualified archaeologist.</p> <p>On 8/18/2022, DOT&PF sent letters to OHA and other relevant agencies with the finding of no historic properties would be adversely affected by the proposed project. The findings letter further states that FAI-02808 is not eligible for inclusion in the National Register of Historic Places (NRHP). On 8/26/2022, OHA responded to the findings letter by providing conditional concurrence with the finding of no historic properties would be adversely affected for rehabilitation of the existing road segment. Further, OHA believed that insufficient information was gathered during field efforts centered around FAI-02808 and requested further studies of the site be conducted prior to final concurrence with DOT&PF's findings.</p> <p>Between 9/10/22 and 9/18/2022, further field studies were conducted along the existing and proposed road alignments by Stantec Inc. archaeologists as requested by and with guidance from OHA archaeologists.</p> <p>On 10/14/2022, DOT&PF submitted a follow-up findings letter to OHA and other relevant entities for the existing portion of Totchaket Road. DOT&PF found that no historic properties would be adversely affected by the proposed project on the existing portion of Totchaket Road. In this findings letter, DOT&PF also requested concurrence from the Alaska Chief of the OHA with a determination that FAI-02808 is eligible for inclusion in the NRHP. On 10/25/2022, OHA responded to the submitted follow-up findings letter, concurring with DOT&PF's finding that no historic properties would be adversely affected by the proposed project. OHA also concurred with DOT&PF's determination of eligibility for FAI-02808 in the NRHP.</p> <p>Findings and OHA concurrence for the proposed extension of Totchaket Road will be addressed in a separate Nenana-Totchaket Road Extension environmental document.</p> <p>Documentation of DOT&PF's analysis of historic properties and cultural impacts can be found in Appendix B. Due to the confidential nature of much of the information contained within these documents, many have been redacted from the public record.</p>		

D. <u>Section 6(f) Impacts</u>	<u>YES</u>	<u>NO</u>
1. 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? <i>If no, skip to E.</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b. Will the action result in a conversion of a Section 6(f) property? <i>Attach the correspondence from the Alaska Department of Natural Resources (ADNR) 6(f) Grants Administrator.</i>	<input type="checkbox"/> *	<input checked="" type="checkbox"/>
Summary		

D. <u>Section 6(f) Impacts</u>	<u>YES</u>	<u>NO</u>
Summarize Section 6(f) involvement, if any. <i>Include any project-specific commitments or mitigative measures in Section V.</i>		
No section 6(f) properties are located within or adjacent to the project area.		

E. <u>Contaminated Sites and Hazardous Materials Impacts</u>	<u>YES</u>	<u>NO</u>
1. Identify information source(s), web link, and date accessed. DEC Contaminated Sites Webmap, https://dec.alaska.gov/spar/csp.aspx Accessed: 5/12/2022		
2. Are there known or potentially contaminated sites within or adjacent to the existing ROW? <i>If yes, attach Alaska Department of Environmental Conservation (ADEC) coordination correspondence.</i>	<input type="checkbox"/> *	<input checked="" type="checkbox"/>
3. Would a documented hazardous material site be acquired? <i>If yes, attached ADEC coordination correspondence.</i>	<input type="checkbox"/> *	<input checked="" type="checkbox"/>
4. Are there contaminated sites within 1,500 feet of where excavation dewatering is anticipated? <i>If yes, attach ADEC coordination correspondence.</i>	<input type="checkbox"/> *	<input checked="" type="checkbox"/>
Summary Summarize the contaminated site impacts and mitigation, if any. <i>Include any project-specific commitments or mitigative measure in Section V.</i> There are no known contaminated sites within or adjacent to the project area along the existing roadway.		

F. <u>Floodplain Impacts</u>	<u>YES</u>	<u>NO</u>
1. Does the project encroach into a mapped base (100 year) floodplain or a potential unmapped base floodplain? <i>If no, skip to G.</i>	<input checked="" type="checkbox"/> *	<input type="checkbox"/>
a. Does the project encroach into a regulatory floodway?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b. Would the proposed action increase the base flood elevation (BFE) one-foot or greater, or any rise in a regulatory floodway?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c. Is there a longitudinal encroachment into the 100-year floodplain?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
2. Does the project conform to local flood hazard requirements? <i>If there are no local flood hazard requirements, skip to summary.</i>	<input type="checkbox"/>	<input type="checkbox"/>
Summary Summarize floodplain impacts and any mitigation. Identify map source and date. <i>Include any project-specific commitments or mitigative measures in Section IV.</i> The project area in which the existing Totchaket Road is proposed to be rehabilitated currently encroaches on the potential unmapped base floodplains of the Little Nenana, East Middle, and West Middle Rivers. This project proposes to replace and rehabilitate the bridges crossing these streams. Replacement of bridges would result in longer structures, spanning the entirety of the channels at ordinary high water in order to reduce channel		

F. Floodplain Impacts	<u>YES</u>	<u>NO</u>
<p>constriction and flow velocity. The proposed project is not anticipated to result in any significant increase in base flood elevation.</p> <p>Floodplain impacts resulting from new road construction will be addressed in a separate Nenana-Totchaket Road Extension environmental document.</p>		

G. Wetland and Waterbody Impacts	<u>YES</u>	<u>NO</u>
<p>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)? <i>If yes, complete G.1.a through g. If no, skip to G.2.</i></p>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<p style="padding-left: 40px;">➤ Wetlands? <i>If yes, complete a through e. If no, skip to Waters.</i></p>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<p>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”?</p>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<p>b. Estimated area of permanent wetland impacts (acres): 1.1 acres</p>		
<p>c. Estimated area of temporary wetland impacts (acres): 6.7 acres</p>		
<p>d. Estimated fill quantity in wetlands (cubic yards): 1,800 cy</p>		
<p>e. Estimated dredge quantities in wetlands (cubic yards): <u>N/A</u></p>		
<p>f. Wetlands Finding: <i>Attach the following supporting documentation as appropriate:</i></p> <p style="padding-left: 40px;"><input checked="" type="checkbox"/> Wetlands Delineation.</p> <p style="padding-left: 40px;"><input type="checkbox"/> Preliminary Jurisdictional Determination.</p>		
<p>i. Are there practicable alternatives to the proposed construction in wetlands? <i>If yes, the project cannot be approved as proposed.</i></p>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<p>ii. Does the project include all practicable measures to minimize harm to wetlands? <i>If no, the project cannot be approved as proposed.</i></p>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<p>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. <i>If no, the project cannot be approved as proposed.</i></p>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<p style="padding-left: 40px;">➤ Waters? <i>If yes, complete g & h. If no, skip to G.2.</i></p>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<p>g. Estimated fill quantities in other Waters of the U.S. (WOTUS) below:</p> <p style="padding-left: 40px;">OHW (cubic yards): <u>1833 cy</u></p> <p style="padding-left: 40px;">MHW (cubic yards): <u>N/A</u></p> <p style="padding-left: 40px;">HTL (cubic yards): <u>N/A</u></p>		
<p>h. Estimated dredge quantities (cubic yards): <u>450 cy</u></p>		
<p>2. Does the project involve work within or over navigable waters as defined by the USACE (Section 10)?</p>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<p>3. Proposed waterbody involvement:</p>		

G. Wetland and Waterbody Impacts		<u>YES</u>	<u>NO</u>
<input checked="" type="checkbox"/> Bridge <input checked="" type="checkbox"/> Culvert <input checked="" type="checkbox"/> Embankment Fill <input type="checkbox"/> Relocation <input type="checkbox"/> Diversion <input checked="" type="checkbox"/> Temporary <input checked="" type="checkbox"/> Permanent <input type="checkbox"/> Other			
4.	Is a USACE authorization anticipated? If yes, identify type: <input type="checkbox"/> Nationwide Permit <input type="checkbox"/> General Permit <input checked="" type="checkbox"/> Individual Permit <input type="checkbox"/> Other	<input checked="" type="checkbox"/>	<input type="checkbox"/>
5.	Will the project involve navigable waters as defined by the U.S. Coast Guard (USCG) (Section 9)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
a.	Is a USCG Bridge permit required?	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Summary

Summarize wetland and waterbody impacts and mitigation, if any. *Include any project-specific commitments or mitigative measures in Section VI.*

The proposed project along the existing Totchaket Road is anticipated to permanently and temporarily impact approximately 7.7 acres of waters of the U.S. (WOTUS), transecting different wetland and waters types. For further description of the wetland and vegetation types found in the areas of the existing and proposed extension of Totchaket Road, refer to the attached Wetland Delineation completed by Stantec Inc. in July, 2022. The project proposes to place approximately 1,800 cubic yards (CY) of permanent fill in WOTUS as a result of the improvements to portions of the existing Totchaket Road, resulting in 1.1 acres of expected temporary impacts. A total of approximately 6.6 acres of temporary impacts to wetlands are anticipated from: temporary work areas associated with bridge replacement, temporary work areas around new and replacement culverts, and temporary work zones established at the toe of road embankments as necessary.

Impact to wetlands has primarily been mitigated through the design process and is undergoing approval by the US Army Corps of Engineers (USACE) via an Individual Section 404 Permit. Among the mitigated impacts are: proposed bridge replacement and rehabilitation resulting in reductions in channel constriction and flow velocity, proposal that the existing road maintain its current variable width to reduce impacts associated with standardization, and the addition of cross-drainage culverts to increase wetland connectivity and decrease road sedimentation into adjacent wetlands.

Wetland impacts for new road construction will be addressed in a separate Nenana-Totchaket Road Extension environmental document.

The wetland delineation performed by Stantec Inc. for the existing Totchaket Road, as well as the proposed extension of the road, can be found in **Appendix C**. Additional project-specific commitments can be found in Section VI.

H. Fish and Wildlife Impacts		<u>YES</u>	<u>NO</u>
1.	Anadromous and resident fish habitat. <i>Any activity or project that is conducted below the ordinary high water mark of an anadromous stream, river, or lake requires a Fish Habitat Permit.</i>		
a.	Identify information source(s), link, and date accessed. ADF&G Alaska Fish Resource Monitor, https://www.adfg.alaska.gov/sf/SARR/AWC/index.cfm?ADFG=main.interactive Reviewed: 8/16/2022 NOAA Essential Fish Habitat (EFH) Mapper https://www.habitat.noaa.gov/apps/efhmapper/		

H. Fish and Wildlife Impacts	<u>YES</u>	<u>NO</u>
Reviewed: 8/16/2022 Critical Habitat Areas established by Alaska State Legislature (AS 16.20.500) https://www.adfg.alaska.gov/index.cfm?adfg=habitatregulations.critical Reviewed: 8/16/2022		
b. Is anadromous or resident fish habitat present in project area (Title 16.05.841 and 16.05.871)? <i>If no, skip to H.2.</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
c. Are there adverse effects on spawning/rearing habitat or migration corridors?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
d. Are there temporary impacts to fish habitat?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. Are there adverse effects on fish and wildlife subsistence species?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
3. Threatened and Endangered (T&E) Species		
a. Identify information source(s), link, and date accessed. USFWS Information for Planning and Consultation (IPaC) Mapper https://ipac.ecosphere.fws.gov/ Reviewed: 8/16/2022		
b. Are listed threatened or endangered species present in or do they migrate through the project area? .	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c. Is there designated critical habitat in the project area?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
d. Are there Proposed or Candidate species or proposed critical habitat present in the project area?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
4. Marine Mammals. <i>Includes any species protected under the Marine Mammal Protection Act (MMPA)</i>		
a. Is the project located in the marine environment? <i>If no, skip to H.5.</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b. Identify information source(s), link, and date accessed. Click here to enter text.		
c. Are MMPA species in project area? <i>If no, skip to H.5.</i>	<input type="checkbox"/>	<input type="checkbox"/>
d. Is the project anticipated to result in an incidental take?	<input type="checkbox"/>	<input type="checkbox"/>
e. Is an Incidental Take Authorization anticipated? If yes, identify. <input type="checkbox"/> Incidental Harassment Authorization <input type="checkbox"/> Letter of Authorization	<input type="checkbox"/>	<input type="checkbox"/>
5. Wildlife Resources:		
a. Is the project in an area of high wildlife/vehicle accidents?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b. Would the project bisect migration corridors or segment habitat?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
6. Bald and Golden Eagle Protection Act. <i>If yes to any below, consult with USFWS and attach documentation of consultation.</i>		
a. Identify information source(s), link, and date accessed. USFWS Information for Planning and Consultation (IPaC) Mapper https://ipac.ecosphere.fws.gov/ Reviewed: 8/16/2022		

H. Fish and Wildlife Impacts	<u>YES</u>	<u>NO</u>
Stantec Consulting Services Eagle/Raptor Nest Survey (Appendix D) Performed: 6/7/2022		
b. Is the project visible from an eagle nesting tree?	<input type="checkbox"/> *	<input checked="" type="checkbox"/>
c. Is the project within 330 feet of an eagle nesting tree?	<input type="checkbox"/> *	<input checked="" type="checkbox"/>
d. Is the project within 660 feet of an eagle nesting tree?	<input type="checkbox"/> *	<input checked="" type="checkbox"/>
e. Will the project require blasting or other activities that produce extreme loud noises within 1/2 a mile from an active nest?	<input type="checkbox"/> *	<input checked="" type="checkbox"/>
f. Is an eagle permit required?	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Summary

Summarize fish and wildlife impacts and mitigation, if any. *Include any project-specific commitments or mitigative measures in Section VI.*

Anadromous and Resident fish species and habitats are not anticipated to be adversely affected by the proposed rehabilitation of the existing Totchaket Road or the proposed extension of Totchaket Road. Temporary impacts may occur as a result of replacement/rehabilitation of bridges that cross the Little Nenana, East Middle, and West Middle Rivers. New bridges will be constructed longer than existing bridges, spanning the entire channel of each at ordinary high water (OHW). This measure will reduce channel constriction and flow velocity by widening the floodplain. An in-road high water crossing is also proposed along a seasonally flooded area that is anticipated to contain resident fish species. This project proposes to replace the existing 4' culvert at the site with two approximately 7' EHD culverts and to reinforce the road with armor stone to prevent washouts. These measures will improve continuity of wetlands on each side of the road and prevent sedimentation of the wetlands due to seasonal flooding in the area. Further design of the bridges and water crossing is underway and Alaska Department of Fish & Game (ADF&G) is being consulted. Before any in-water work occurs, a Fish Habitat Permit will be obtained.

According to a search of the USFWS IPaC database, no T&E species or critical habitat are present in or migrate through the project area. The project will take place in Interior Alaska, no marine mammals will be affected.

To prevent incidental take of migratory birds during project construction, no mechanized vegetation clearing during USFWS recommended bird nesting timeframe of May 1-July 15 unless otherwise approved by a mitigative work plan. See **Section VI** for environmental commitments.

According to a search of the USFWS IPaC database, Bald and Golden Eagles may be present in the project area. On June 7, 2022, Stantec Consulting Services performed an aerial survey via helicopter to look for Eagle/Raptor nests in the project areas of the rehabilitation of the existing Totchaket Road and the proposed extension area of Totchaket Road. No nests were observed as part of the survey, further detail on the survey can be found in **Appendix D**. In addition, field crews were present along the project area from May 31, 2022 to June 7, 2022 and no nests or Eagles were observed during daily helicopter flights to field targets. One Bald Eagle was seen along the existing roadway approximately 4.5 miles west of the Nenana River during wetland field work, but no nest was observed in the project area during the nest survey.

I. Invasive Species Impacts	<u>YES</u>	<u>NO</u>
1. Identify information source(s), link, and date accessed. Alaska Exotic Plants Information Clearinghouse (AKEPIC) https://accs.uaa.alaska.edu/invasive-species/non-native-plants/ Accessed: 8/16/2022		

I. <u>Invasive Species Impacts</u>	<u>YES</u>	<u>NO</u>
2. Are invasive species present in project area?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3. Does the project include practicable measures to minimize the introduction or spread of invasive species? <i>If yes, list measures in summary.</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Summary Summarize invasive species impacts and mitigation, if any. <i>Include any project-specific commitments or mitigative measures in Section VI.</i> Areas adjacent to the existing Totchaket Road and other surface roads within to the City of Nenana have been observed to contain multiple non-native invasive weeds including white sweet clover (<i>Melilotus alba</i>) and bird vetch (<i>Vicia cracca</i>) among others. See Section VI for project-specific commitments regarding invasive species.		

J. <u>Water Quality Impacts (18 AAC 70)</u>	<u>YES</u>	<u>NO</u>
1. Is a public or private drinking water source or protection area within or adjacent to the project? <i>If yes, attach consultation with ADEC as applicable and explain in summary.</i>	<input type="checkbox"/> *	<input checked="" type="checkbox"/>
2. Would the project result in a discharge of storm water to a water body as defined at AS 46.03.900(37)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3. Would the project discharge storm water into or affect an ADEC-designated Impaired Waterbody. <i>If any of the Impaired Waterbodies have an approved or established Total Maximum Daily Load, describe project impacts in summary and coordination with ADEC.</i>	<input type="checkbox"/> *	<input checked="" type="checkbox"/>
a. List name(s), location(s), and pollutant(s) causing impairment: Click here to enter text.		
4. Will the project involve more than one (1) acre of ground-disturbing activities?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
5. Is there a Municipal Separate Storm Sewer System (MS4) APDES permit? <i>If no, skip to summary.</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
a. List APDES permit number and type: Click here to enter text.		
6. Will the project require ADEC Non-domestic Wastewater Plan Approval?	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Summary Summarize the water quality impacts and mitigation, if any. <i>Include any project-specific commitments or mitigative measures in Section V.</i> Water in the City of Nenana is provided via groundwater well that is then distributed via the Nenana Municipal Water system (AK2390065). The drinking water protection area for this water system encircles most of downtown Nenana and a portion of the area south of downtown, ending approximately 120 feet north of the Parks Highway and 10 th Avenue intersection. For the Nenana Municipal Water system location and water quality protection area boundaries, see Appendix E . The proposed project does not fall within the drinking water protection area. The easternmost extents of the project area lie approximately 3000 feet to the west of the drinking water protection area. Construction traffic may utilize the Parks Highway, a section of which does fall within the drinking water protection area, when transporting material and equipment to the project location, but no construction activities are anticipated within the area.		
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J. <u>Water Quality Impacts (18 AAC 70)</u>	<u>YES</u>	<u>NO</u>
Construction Contractor(s) will be required to obtain an Alaska Construction General Permit (ACGP), as well as implement a Storm Water Pollution Prevention Plan (SWPPP) in order to mitigate impacts of storm water runoff resulting from construction activities.		

K. <u>Air Quality Impacts (18 AAC 50)</u>	<u>YES</u>	<u>NO</u>
1. Is the project located in an air quality maintenance area or nonattainment area (CO or PM-10 or PM-2.5)? <i>If yes, identify below. If no, skip to L.</i> <input type="checkbox"/> CO <input type="checkbox"/> PM-10 <input type="checkbox"/> PM-2.5	<input type="checkbox"/>	<input checked="" type="checkbox"/>
2. Is the project exempt from an air quality analysis per 18 AAC 50.750 (Exempt Projects)? <i>If no, skip to L.</i>	<input type="checkbox"/>	<input type="checkbox"/> *
3. Is the project regionally significant (18 AAC 50.705)? <i>If no, skip to L.</i>	<input type="checkbox"/> *	<input type="checkbox"/>
4. Was a project-level conformity determination required? <i>Attach documentation of agency coordination and summarize the process and findings in Summary.</i>	<input type="checkbox"/> *	<input type="checkbox"/>

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

The project area is not located in an air quality maintenance or nonattainment area. Impacts to air quality during construction are anticipated to be minimal and temporary. Air quality impacts will be further mitigated using water trucks to reduce dust pollution caused by construction equipment in the summer months.

L. <u>Noise Impacts</u>	<u>YES</u>	<u>NO</u>
1. Does the project involve any of the following project actions? <i>If yes, identify all and consult with REM and Project Manager to determine whether a noise analysis is necessary. If no, a noise analysis is not required. Skip to section M.</i> <input type="checkbox"/> Construction of highway on a new location. <input type="checkbox"/> Substantial alteration in vertical or horizontal alignment as defined in 23 CFR 772.5 . <input type="checkbox"/> An increase in the number of through lanes. <input type="checkbox"/> Addition of an auxiliary lane (except a turn lane). <input type="checkbox"/> Addition or relocation of interchange lanes or ramps added to a quadrant to complete an existing partial interchange. <input type="checkbox"/> Restriping existing pavement for the purpose of adding a through-traffic lane or an auxiliary lane. <input type="checkbox"/> Addition of a new or substantial alteration of a weigh station, rest stop, ride-share lot or toll plaza.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
2. Does the noise analysis identify a noise impact? <i>If yes, explain in summary.</i>	<input type="checkbox"/>	<input type="checkbox"/>

Summary

L. <u>Noise Impacts</u>	<u>YES</u>	<u>NO</u>
Summarize noise impacts and mitigation, if any. <i>Include any project-specific commitments or mitigative measures in Section V.</i>		
No noise analysis is required for the proposed project along the existing Totchaket Road.		
Potential noise impacts for new road construction will be addressed in a separate Nenana-Totchaket Road Extension environmental document.		

M. <u>Social and Economic Impacts</u>	<u>YES</u>	<u>NO</u>
1. Would the project affect neighborhoods or community cohesion?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
2. Would the project affect school boundaries, recreation areas, churches, businesses, police and fire protection, etc.?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
3. Would the project have a disproportionate or adverse effect on the elderly, handicapped, non-drivers, transit-dependent, minority and ethnic groups, or the economically disadvantaged?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
4. Would the project affect travel patterns and accessibility (e.g., vehicular, commuter, bicycle, or pedestrian)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
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.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
6. The project will adversely affect established businesses or business districts.	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Summary

Summarize social and economic impacts and mitigation, if any. *Include project-specific any commitments or mitigative measures in Section V.*

The purpose of rehabilitating the existing Totchaket Road is to improve accessibility to the valley west of Nenana for agricultural plot owners, hunters, fishers, subsistence users, and other recreational users.

An agricultural project in the area has been proposed by Alaska DNR, see <http://dnr.alaska.gov/ag/nentot/> for more information. This project has the potential to introduce expanded commercial activities to the Nenana area. This road project would affect access to the land plots that are part of this agriculture project, improving roadways and water crossings to accommodate operational needs.

The area is primarily used for hunting, trapping, berry picking, and firewood collection by the local population of Nenana. Improving access to the area could potentially lead to people from surrounding areas using the area in the same way locals do, leading to greater pressure on the surrounding environment and on the likelihood of successful take by residents of Nenana.

III. Temporary Construction Impacts

A. <u>Temporary Construction Impacts</u>	<u>YES</u>	<u>NO</u>
1. Will there be temporary waterbody involvement or stream diversion?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. Will there be temporary degradation of water quality?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3. Will there be temporary impacts to fish habitat?	<input checked="" type="checkbox"/>	<input type="checkbox"/>

A. <u>Temporary Construction Impacts</u>	<u>YES</u>	<u>NO</u>
4. Will there be temporary degradation of air quality?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
5. Will there be temporary delays and detours of traffic?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6. Will there be temporary impacts on businesses?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
7. Will there be temporary noise impacts?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
8. Will there be temporary right-of-way impacts?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
9. Will there be other temporary construction impacts (e.g. – utility relocates, TCEs, or TCPs)? <i>If yes, list below.</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<p>Summary</p> <p>Summarize temporary construction impacts and mitigation, if any. <i>Include project-specific any commitments or mitigative measures in Section VI.</i></p> <p>There will be a number of temporary impacts involved in rehabilitating the existing Totchaket Road including but not limited to: temporary diversion of water for culvert replacement/installation, controlled sedimentation of adjacent wetlands and waterbodies, temporary impacts to air quality caused by construction traffic, delays to traffic travelling along Totchaket Road, temporary noise impacts caused by construction traffic.</p> <p>Temporary impacts will be mitigated to the furthest practicable extent by following ACGP, SWPPP, and USACE Individual Permit guidelines and environmental commitments/mitigation measures made in Section VI of this document.</p>		

IV. Comments and Coordination

A. <u>Public Involvement</u>	<u>YES</u>	<u>NO</u>
1. Was public involvement for project completed? <i>If no, explain in summary.</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. Was the project public noticed? <i>If no, provide justification in summary and skip to A.3.</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
a. Newspaper name and date of notice: <i>Attach certified affidavit of public notice.</i>	<input type="checkbox"/> *	<input checked="" type="checkbox"/>
b. Alaska Online Public Notice date: <i>Attach copies.</i> Nenana-Totchaket Agriculture Event Noticed: 6/7/2022 Official Public Meeting Noticed: 9/8/2022	<input checked="" type="checkbox"/> *	<input type="checkbox"/>
3. Was a public meeting held?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
a. Date(s), time(s), and location(s): Nenana-Totchaket Agriculture Event: 6/10/2022 DOT&PF Public Meeting: 9/10/2022		
<p>Summary</p> <p>Summarize public comments and coordination efforts for this project. Discuss pertinent issues raised and how they were addressed. <i>Attach correspondence that demonstrates coordination and that there are no unresolved issues.</i></p> <p>Public Involvement for the proposed rehabilitation of Totchaket Road and the proposed extension of Totchaket Road was conducted at the same time. Addressing public comments on proposed actions in the area was necessary to complete at the same time due to the linked nature of the proposed actions of rehabilitating the existing Totchaket road and extending Totchaket Road.</p>		

A. <u>Public Involvement</u>	<u>YES</u>	<u>NO</u>
<p>One official public meeting has been held in Nenana. In addition, employees of DOT&PF attended a public meeting held by Alaska DNR as part of a two-day Nenana-Totchaket Agricultural Event.</p> <p>Alaska DNR’s agriculture event was advertised on 6/7/2022. The public event was held on 6/10/2022.</p> <p>DOT&PF’s public meeting was publicly noticed on 9/8/2022 and the meeting was held on 9/10/2022. A Facebook post was made by the City of Nenana announcing the public meeting on 9/7/2022. DOT&PF also made a Facebook post on 9/7/2022 announcing the meeting.</p> <p>As part of the public meeting a public comment period was opened and set to close on 9/30/2022. Comments were received by the project team, sorted, and commenters with concerns about the project received responses written by the project team.</p> <p>Any future public involvement for new road construction will be addressed in a separate Nenana-Totchaket Road Extension environmental document.</p> <p>See Appendix F for documentation of public involvement.</p>		

B. <u>Agency Involvement</u>	<u>YES</u>	<u>NO</u>
<p>1. Was agency scoping conducted? <i>If no, provide justification in summary.</i></p>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<p>a. Date letters sent: <i>Attach a copy.</i> 12/23/2021</p>		
<p>2. Was an agency scoping meeting held? <i>If no, skip to B.3.</i></p>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<p>a. Date: <i>Click here to enter text.</i></p>		
<p>3. Was a field review completed with agencies?</p>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<p>a. Date: <i>Click here to enter text.</i></p>		

Summary

Summarize agency coordination efforts for this project. Discuss pertinent issues raised and how they were addressed. *Agency comment(s) and response(s) should be included in the applicable sections in III.*

Agency involvement for the proposed rehabilitation of Totchaket Road and the proposed extension of Totchaket Road was conducted at the same time. Addressing agency comments on proposed actions in the area was necessary to complete at the same time due to the linked nature of the proposed actions of rehabilitating the existing Totchaket road and extending Totchaket Road.

Agency scoping letters were sent on 12/23/2021. Comments were received from ADF&G, ARRC, the City of Nenana, Alaska DEC, Alaska DNR, FSWCD, USCG, and USFWS. Comments with questions or concerns about the project were responded to by the project team.

Any future agency involvement for new road construction will be addressed in a separate Nenana-Totchaket Road Extension environmental document.

See **Appendix G** for documentation of agency involvement.

V. Permits and Authorizations


A. <u>Permits and Authorizations</u>	<u>YES</u>	<u>NO</u>
<p>1. USACE, Section 404/10 Includes Individual Permit, Letter of Permission, Nationwide Permit, and General Permit</p>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

A. <u>Permits and Authorizations</u>		<u>YES</u>	<u>NO</u>
2.	U.S. Coast Guard, Section 9 Bridge Permit or Advanced Approval	<input type="checkbox"/>	<input checked="" type="checkbox"/>
3.	ADF&G Fish Habitat Permit (Title 16.05.871 and/or Title 16.05.841)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
4.	Local Floodplain Permit (Flood Hazard)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
5.	ADEC Non-domestic Wastewater Plan Approval	<input type="checkbox"/>	<input checked="" type="checkbox"/>
6.	Project-specific ADEC 401 Certification	<input checked="" type="checkbox"/>	<input type="checkbox"/>
7.	ADEC APDES-CGP	<input checked="" type="checkbox"/>	<input type="checkbox"/>
8.	Eagle Permit	<input type="checkbox"/>	<input checked="" type="checkbox"/>
9.	Incidental Take Authorization	<input type="checkbox"/>	<input checked="" type="checkbox"/>
10.	Local (Borough or City) permit (e.g., land development or noise) <i>If yes, identify in summary.</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
11.	Other. <i>If yes, identify in summary.</i>	<input type="checkbox"/>	<input type="checkbox"/>
<p>Summary</p> <p>Summarize status of permit applications and identify permits from A.10 and 11.</p> <p>USACE 404 Individual Permit – Application Submitted 8/18/22</p> <p>Alaska DEC 401 Water Quality Certification – Application Submitted 8/18/22</p> <p>Alaska DF&G Title 16 Fish Habitat Permit – Planned for application early 2023</p> <p>Alaska DNR-DMLW Designation of Material Sites MS 37-1-165-2 & MS 37-1-166-2 – Approved 9/16/22</p>			

VI. Environmental Commitments

<u>Environmental Commitments and Mitigation Measures</u>
List all environmental commitments and mitigation measures included in the project.
<p>In addition to any guidelines provided in the ACGP, SWPPP, and USACE Individual Permit, DOT&PF and their Contractor(s) shall ensure:</p> <ul style="list-style-type: none"> • Vegetation clearing in wetland areas outside of the proposed footprint will be accomplished while soils are frozen or by hand using only low ground-pressure, wheeled ATVs for access to minimize temporary wetland impacts. • Construction vehicles will be cleaned of vegetative debris before entering the limits of construction in order to limit the spread of invasive species. • Temporary fencing will be installed along toe of existing road, approximately from stations 515+00 to 525+00. Operation of construction equipment or performance of any activities whatsoever outside of the fenced road area is prohibited. Temporary fencing will be removed upon work completion. • No mechanized vegetation clearing during USFWS recommended bird nesting timeframe of May 1-July 15 unless otherwise approved by a mitigative work plan.

VII. Environmental Documentation Approval

A. <u>Environmental Documentation Approval Signatures</u>	
Prepared by:	Date: 10/27/2022
<u>William Sexton</u> Environmental Impact Analyst	
<u>William Sexton</u> Environmental Impact Analyst	
Reviewed by:	Date: 10/27/22
<u></u> Engineering Manager	
<u>Jonathan Hutchinson</u> Engineering Manager	
Approved by:	Date: 10/27/2022
<u>Brett D Nelson</u> Regional Environmental Manager	
<u>Brett Nelson</u> Regional Environmental Manager	