



**Miranda Buckmaster**  
Environmental Coordinator

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Environmental Sustainability & Permitting  
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November 16, 2023

Department of Natural Resources  
Division of Oil and Gas  
DOG Permitting  
550 West 7th Avenue, Suite 1100  
Anchorage, AK 99501-3563

*Submitted Electronically to:*  
[DOG.Permitting@alaska.gov](mailto:DOG.Permitting@alaska.gov)

**RE: CD1 Lakeshore Drive Gravel Addition  
Colville River Unit – LONS 97-007**

Dear Regulators:

ConocoPhillips, Alaska, Inc. (CPAI) requests authorization to place approximately 5,760 cubic yards of clean gravel fill into a total of 0.49 acres of jurisdictional wetlands to expand the west side of Colville Delta 1 (CD1) gravel pad. The gravel addition will support the installation of two water storage tanks and one smoke shack which will be located west of existing J1 Warehouse. The addition will also increase the safety of vehicle and equipment traffic and maintain the requisite space for rig movement across the pad.

The project is scheduled to begin on January 30, 2024.

Additional details are provided in the attached application form, project description and figures. Payment will be made to the State of Alaska via the permitting payments portal at <https://dog.dnr.alaska.gov/Payments/Index> in the amount of \$250 for the ADNR General Permit application fee.

If you have any questions or need additional information, please contact me at (907) 263-4868 or [miranda.buckmaster@conocophillips.com](mailto:miranda.buckmaster@conocophillips.com)

Sincerely,

A handwritten signature in blue ink, appearing to read "MBuckmaster", with a long horizontal flourish extending to the right.

Miranda Buckmaster

Enclosures



Affected ADL: 025558 Date Effective: 6/1/2004 Date Assigned: Enter Date.

Oil And Gas Lessee(s): CPAI  
 Surface Ownership: State of Alaska  
 Do you have, or anticipate having an Access Agreement:  Yes  No  
 Special Use Lands: None identified  
 Jointly Managed Lands: None identified  
 Other Considerations: None identified

Project Components	Meridian, Township, Range, And Section(s)	GPS Coordinates
Begin gravel mining, hauling, placement and compacting	T12NR5E Section 32	70.3454646 N, 150.9280772 W
Install two water storage tanks, smoke shack, and power cable	T12NR5E Section 32	70.3454646 N, 150.9280772 W
<a href="#">Click here to enter text.</a>	<a href="#">Click here to enter text.</a>	<a href="#">Click here to enter text.</a>

**2. State of Alaska Surface Lands:**

Are supplemental pages for land status included in Appendix C?  Yes  No

Oil And Gas Mineral Estate Owner: NA  
 Access Authorization(s): NA  
 Special Use Lands: ADL 50666  
 Jointly Managed Lands: None identified  
 Other Considerations: None identified

Project Components	Meridian, Township, Range, And Section(s)	GPS Coordinates
Begin gravel mining, hauling, placement and compacting	T12NR5E Section 32	70.3454646 N, 150.9280772 W
Install two water storage tanks, smoke shack, and power cable	T12NR5E Section 32	70.3454646 N, 150.9280772 W
<a href="#">Click here to enter text.</a>	<a href="#">Click here to enter text.</a>	<a href="#">Click here to enter text.</a>

**3. Private Lands:**

Are supplemental pages for land status included in Appendix C?  Yes  No

Oil And Gas Mineral Estate Owner: [Click here to enter text.](#)  
 Surface Ownership And Access Agreement(s): [Click here to enter text.](#)  
 Special Use Lands: [Click here to enter text.](#)  
 Jointly Managed Lands: [Click here to enter text.](#)  
 Other Considerations: [Click here to enter text.](#)

Project Components	Meridian, Township, Range, And Section(s)	GPS Coordinates
<a href="#">Click here to enter text.</a>	<a href="#">Click here to enter text.</a>	<a href="#">Click here to enter text.</a>
<a href="#">Click here to enter text.</a>	<a href="#">Click here to enter text.</a>	<a href="#">Click here to enter text.</a>
<a href="#">Click here to enter text.</a>	<a href="#">Click here to enter text.</a>	<a href="#">Click here to enter text.</a>

**SECTION VI: SEQUENCE AND SCHEDULE OF OPERATIONS**

Project Milestone #	Project Milestone	Proposed Start Date	Proposed End Date
1.	Gravel mining, hauling, placement and compacting	1/30/2024	4/30/2024
2.	Install two water storage tanks, smoke shack, and power cable	3/1/2024	12/31/2024
3.	<a href="#">Enter Milestone.</a>	<a href="#">Enter Date.</a>	<a href="#">Enter Date.</a>
4.	<a href="#">Enter Milestone.</a>	<a href="#">Enter Date.</a>	<a href="#">Enter Date.</a>

5.	Enter Milestone.	Enter Date.	Enter Date.
6.	Enter Milestone.	Enter Date.	Enter Date.
7.	Enter Milestone.	Enter Date.	Enter Date.
8.	Enter Milestone.	Enter Date.	Enter Date.
9.	Enter Milestone.	Enter Date.	Enter Date.
10.	Enter Milestone.	Enter Date.	Enter Date.

**SECTION VII: PROJECTED USE REQUIREMENTS**

1. Describe the proposed operations, including the location and design, of **Well Sites**:

N/A

2. Describe the proposed operations, including the location and design, of **Buildings**:

A new 40 foot long, 12 foot wide smoke shack will be installed on the west side of the CD1 gravel pad.

3. Describe the proposed operations, including the location and design, of **Fuel and Hazardous Substances**:

Diesel may be stored on site during construction operations. Other fluid storage during the operations phase includes wastes, such as used oil and other hydrocarbon products, methanol, and glycol.

4. Describe the proposed operations, including the location and design, of **Solid Waste Sites**:

N/A

5. Describe the proposed operations, including the location and design, of **Water Supplies**:

N/A

6. Describe the proposed operations, including the location and design, of **Utilities**:

CPAI also proposes to excavate one a trench in the new and existing gravel footprints to install a power and communications cable to support the new smoke shack. As shown in the figures, the trench will be approximately 90 feet long, 12 inches wide, and excavated to a maximum depth of four feet.

7. Describe the proposed operations, including the location and design, of **Material Sites**:

Gravel will be sourced from Kuparuk Mine Site C or other existing permitted sources in the Greater Kuparuk Area

8. Describe the proposed operations, including the location and design, of **Roads**:

N/A

9. Describe the proposed operations, including the location and design, of **Airstrips**:

N/A

10. Describe the proposed operations, including the location and design, of **All Other Facilities and Equipment**:

CPAI proposes to place approximately 5,760 cubic yards (cy) of clean gravel fill on to 0.49 acres of tundra to expand the west side of the CD1 gravel pad. The gravel addition will support the installation of two water tanks and one smoke shack west of the J1 warehouse as shown in the attached figures.

11. If another permit(s) is required for the above described Projected Use Requirements, provide the following information:

Agency	Permit Type	Permit Number	Application Status	Projected Use Requirement(s)
North Slope Borough	Development Permit	TBD	Preparing	2, 3, 6, 7, 10
North Slope Borough	Traditional Land Use Inventory Clearance	TBD	Preparing	2, 3, 6, 7, 10
United States Army Corps of Engineers	Nationwide Permit	TBD	Preparing	2, 3, 6, 7, 10
Enter Agency.	Enter Permit Type.	Enter Permit Number.	Enter Application Status.	Enter Projected Use Requirement(s).
Enter Agency.	Enter Permit Type.	Enter Permit Number.	Enter Application Status.	Enter Projected Use Requirement(s).
Enter Agency.	Enter Permit Type.	Enter Permit Number.	Enter Application Status.	Enter Projected Use Requirement(s).

**SECTION VIII: REHABILITATION PLAN**

1. Proposed Level of Infrastructure, Facilities and Equipment Removal:

At end of field life, CPAI would fully dismantle, remove, and restore all temporary and permanent improvements approved by the Plan of Operations unless the State of Alaska determines, at the time of rehabilitation, that different rehabilitation measures are necessary to deliver up the land in good order and condition.

2. Description of Restoration and Rehabilitation Activities for Vegetation, Habitat, Impacted Wildlife, and Other Applicable Resources:

The amended application does not change the rehabilitation plans outlined in the original authorization. Upon abandonment.

**SECTION IX: OPERATING PROCEDURES DESIGNED TO MINIMIZE ADVERSE EFFECTS**

Describe operating procedures designed to prevent or minimize adverse effects on other natural resources and other uses of the Lease area and adjacent areas including:

Fish and Wildlife Habitats: CPAI has a Wildlife Avoidance Interaction Plan designed to prevent or minimize adverse affects on fish and wildlife.

Historic and Archeological Sites: CPAI does not believe the proposed project would have any impacts to cultural resources.

Public Use Areas: This area is not open to the public.

**SECTION X: GLOSSARY OF TERMS**

Term #	Term	Term Definition
1.	CPAI	ConocoPhillips Alaska, Inc.
2.	CD1	Colville Delta No. 1
3.	cy	Cubic yards
4.	N/A	Not Applicable
5.	TBD	To Be Determined
6.	Enter Term.	Enter Term Definition.
7.	Enter Term.	Enter Term Definition.
8.	Enter Term.	Enter Term Definition.
9.	Enter Term.	Enter Term Definition.
10.	Enter Term.	Enter Term Definition.

**SECTION XI: CONFIDENTIALITY**

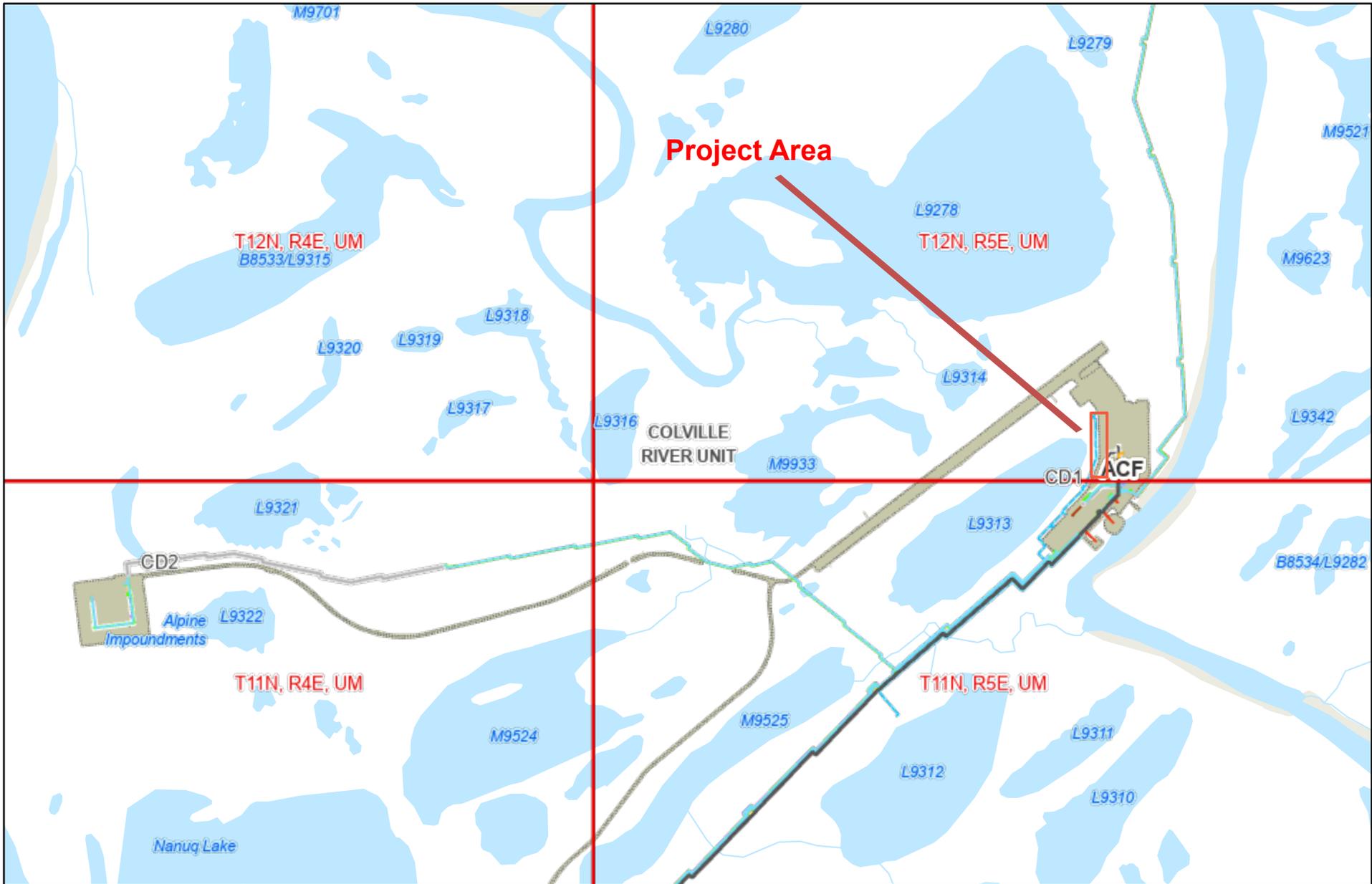
The undersigned hereby requests that each page/section of this application marked confidential be held confidential under AS 38.05.035(a)(8).

APPLICANT CONTACT:

Sign here. \_\_\_\_\_ Enter Name. \_\_\_\_\_ Enter Title. \_\_\_\_\_ Enter Date. \_\_\_\_\_  
 Signature Name Title Date



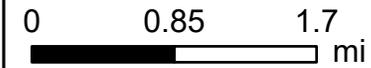
See attached.



**ConocoPhillips**  
Alaska, Inc.

**CD1 Lakeshore Drive Gravel Addition Vicinity**

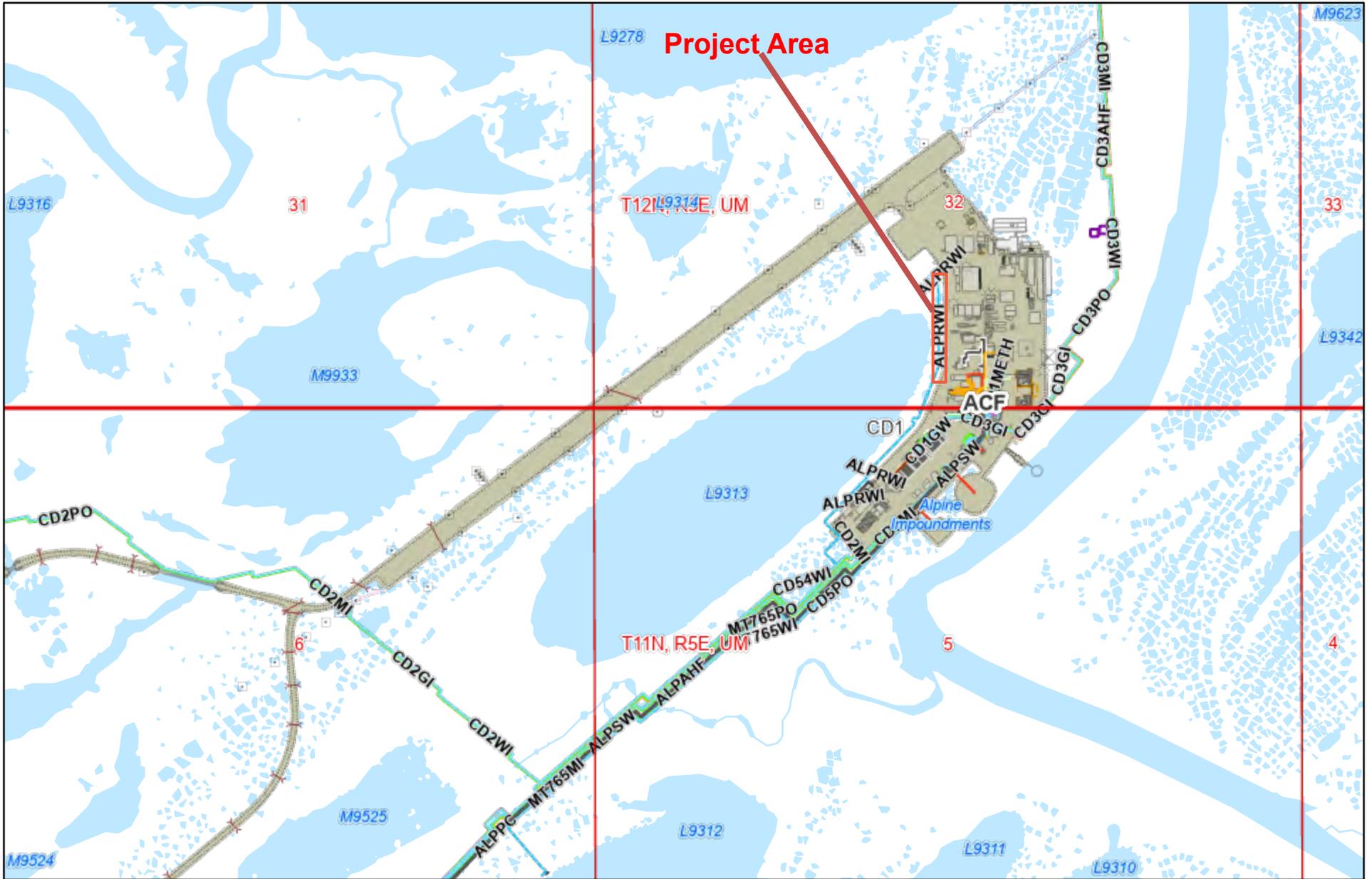
10/14/2023



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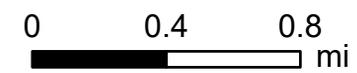
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Company Confidential



CD1 Lakeshore Drive Gravel Addition Project Area

10/14/2023

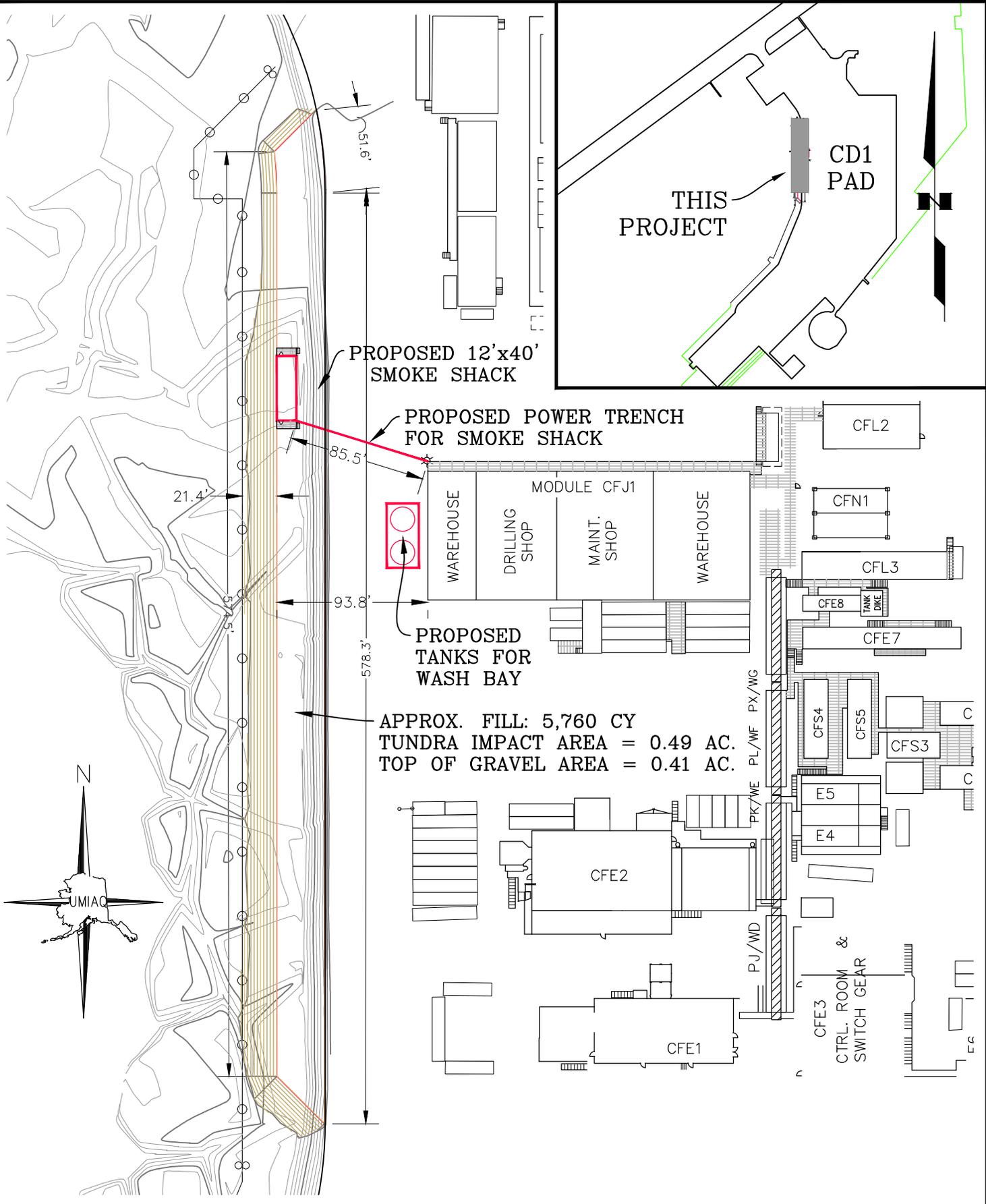


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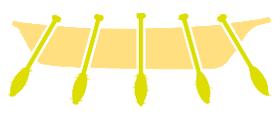
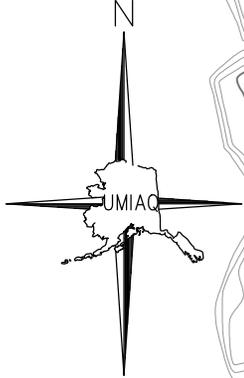
Map Datum: WGS84

Company Confidential

AUTOCAD DRAWING NAME: 20-09-20-1 Wash Bay 30' Gravel Expansion REVISION DATE: 10/14/2023 2:58 PM



APPROX. FILL: 5,760 CY  
 TUNDRA IMPACT AREA = 0.49 AC.  
 TOP OF GRAVEL AREA = 0.41 AC.



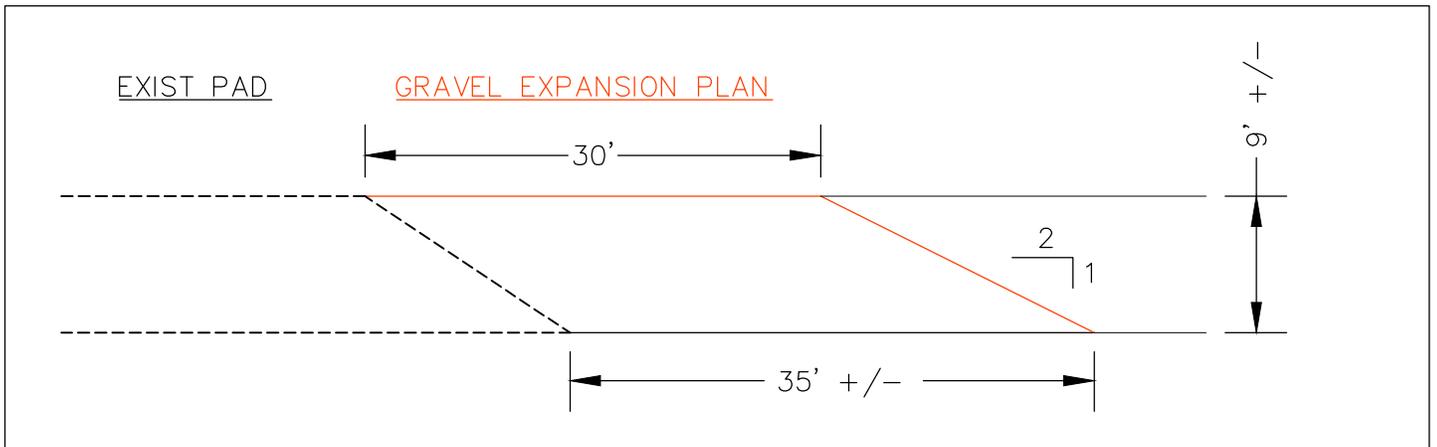
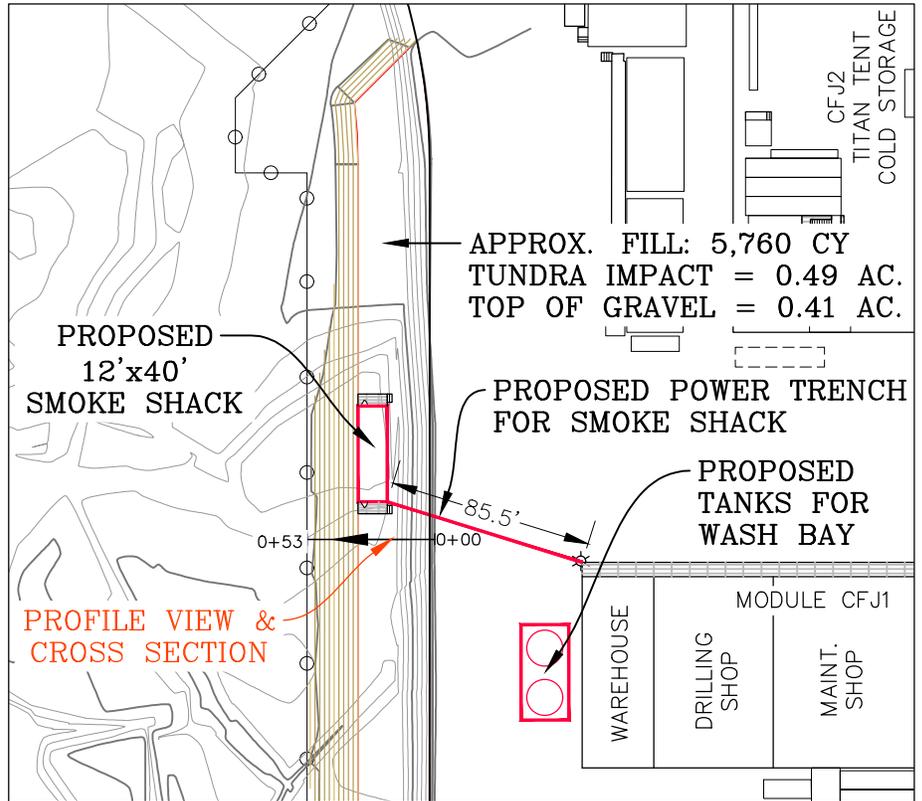
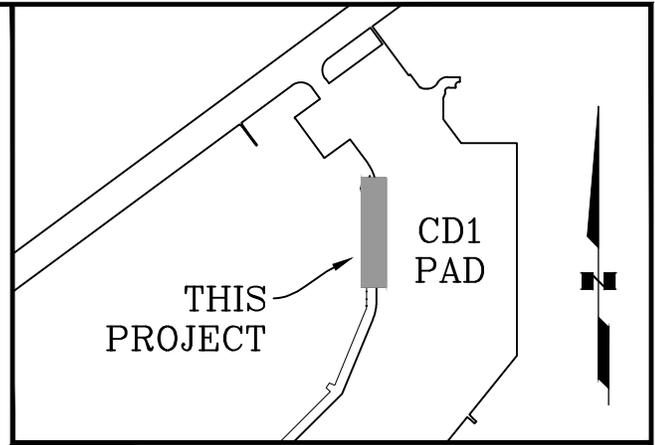
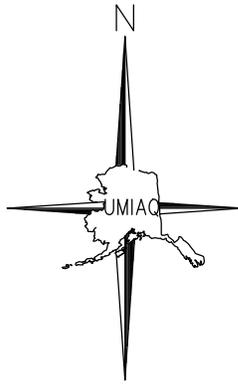
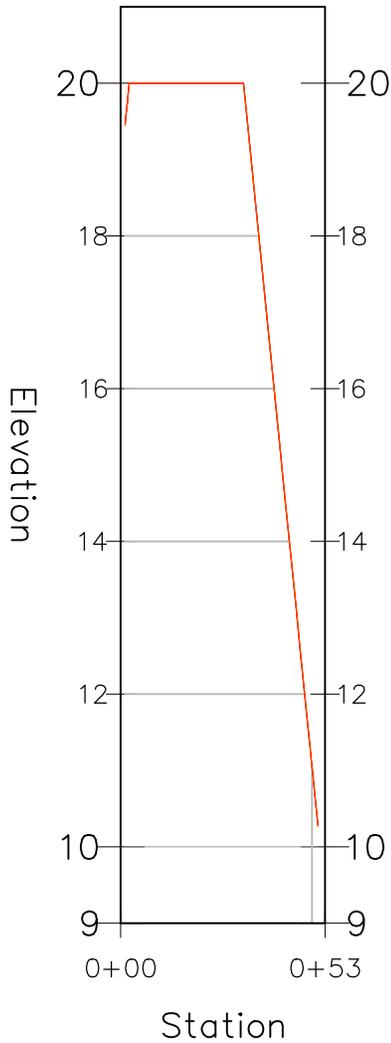
**UMIAQ**  
**Design**.llc  
 ALPINE SURVEY OFFICE  
 PHONE : 907-670-4739

**CONOCOPHILLIPS OF ALASKA, INC.**  
 CD1 LAKESHORE DRIVE  
 GRAVEL EXPANSION  
 ALPINE, ALASKA

DATE: 09/19/2023	DRAWN BY: CZ	SHEET: 1
SCALE: 1" = 100'	CHECKED BY: TD	W.O. No: 23-09-20-

AUTOCAD DRAWING NAME: 20-09-20-1 Wash Bay 30' Gravel Expansion REVISION DATE: 10/14/2023 3:31 PM

Profile View of 30' Gravel Expansion



**UMIAQ**  
Design LLC  
ALPINE SURVEY OFFICE  
PHONE : 907-670-4739

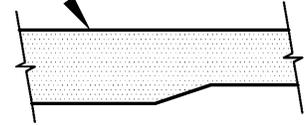
**CONOCOPHILLIPS OF ALASKA, INC.**  
CD1 LAKESHORE DRIVE  
GRAVEL EXPANSION PROFILE & X-SECTION VIEW  
ALPINE, ALASKA

DATE: 10/14/2023	DRAWN BY: BGS	SHEET: 3
SCALE: N.T.S.	CHECKED BY:	W.O. No: 23-09-20-

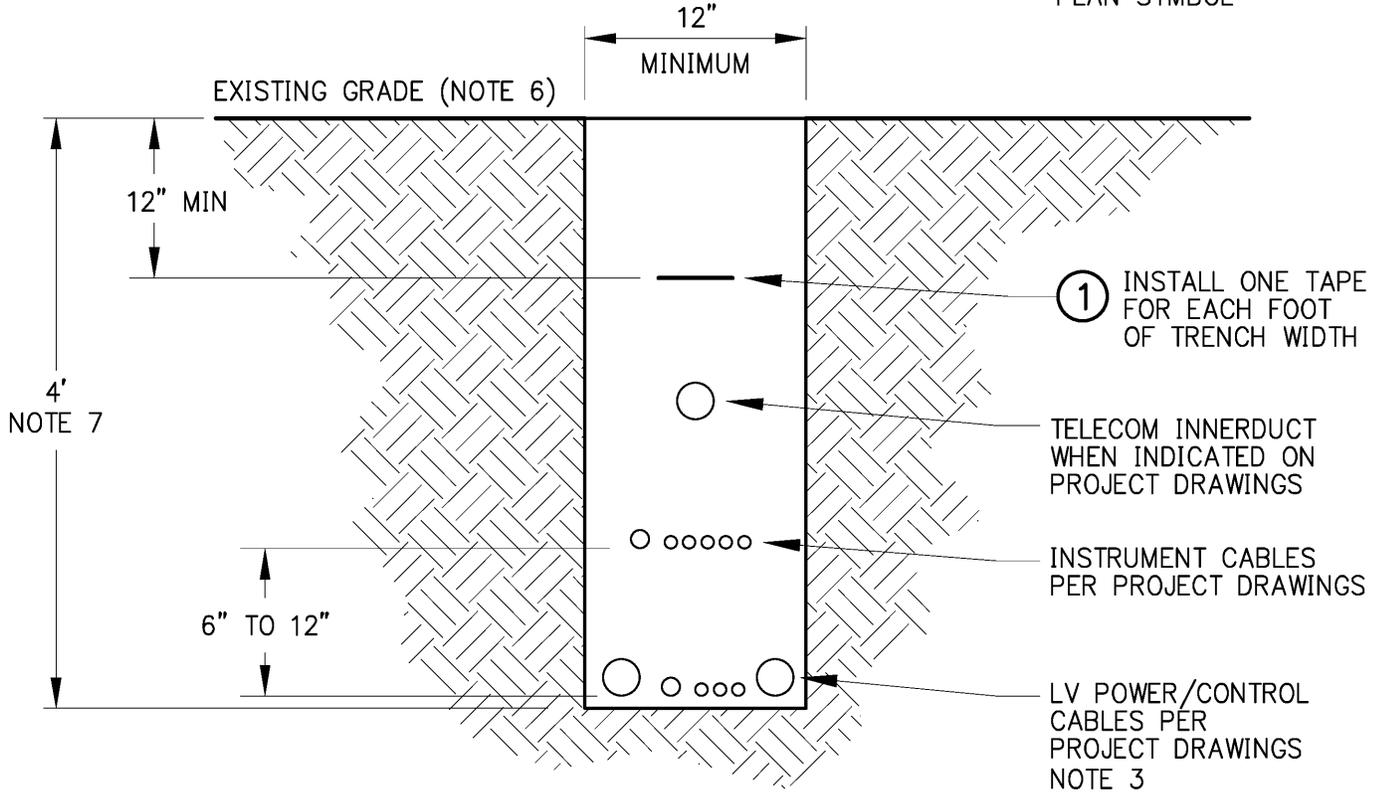
REV	DATE	BY	CK	APP	DESCRIPTION	REV	DATE	BY	CK	APP	DESCRIPTION
5	04/13	JWH	SJR	BH	REVISED PER K100039AEI	6	12/19	LJK	SJR	ML	REV PER K190014AEI

GENERAL STANDARD ARRANGE AS NEEDED

EE - 981A -



PLAN SYMBOL



**TRENCH SECTION**

**NOTES:**

1. CABLES UNDER 600 VOLTS SHALL BE BURIED IN COMPLIANCE WITH NEC 310 AND NEC 300.5.
2. CABLES OVER 600 VOLTS SHALL BE BURIED IN COMPLIANCE WITH NEC 300.50.
3. IF SHOWN ON THE PROJECT DRAWINGS, CONTRACTOR SHALL INSTALL BARE COPPER #4/0 IN THE TRENCH.
4. WORK SHALL COMPLY WITH THE ALASKA SAFETY HANDBOOK (ASH), AND SHALL NOT BE STARTED BEFORE OBTAINING A CIVIL WORK PERMIT.
5. THE TRENCH SHALL BE AS-BUILT SURVEYED TO COPA BEFORE IT IS REFILLED.
6. TRENCHING IN GRAVEL PADS SHALL BE BACKFILLED AND COMPACTED PER COPA CIVIL STANDARDS, TO ACHIEVE A LEVEL FLUSH WITH EXISTING PAD AFTER SETTLING. TRENCHING IN TUNDRA SHALL INCLUDE MOUNDING OF BACKFILL MATERIAL ABOVE THE EXISTING GRADE, TO ALLOW FOR SETTLING. BACKFILL AND MOUNDING OVERBURDEN MATERIALS SHALL BE AS FREE OF ICE AND SNOW AS POSSIBLE.
7. ANY DEVIATIONS FROM INDICATED TRENCH DEPTHS REQUIRE PRIOR ENGINEERING REVIEW AND APPROVAL.

ITEM	QTY	UNIT	CPA NO	DESCRIPTION
1	A/R	FT	10568234	TAPE, BURIED CABLE MARKER, THOR TOOL CORP, 22-205, 6 IN WIDE, 1000 FT ROLL, 1 3/4 IN HGT, YELLOW W/BLACK LETTERING



STANDARD DETAIL  
**MISCELLANEOUS  
 DIRECT BURIAL OF METAL CLAD CABLE  
 0 TO 2000 VOLTS**

DRAWING NO: <b>STD-EE-NS-40981A</b>	PART: 001 OF	REV: <b>6</b>	DETAIL NUMBER <b>EE-981A</b>
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**APPENDIX B: MITIGATION MEASURES**

See attached.

## **MITIGATION MEASURE ANALYSIS: NORTH SLOPE**

**The following instructions are provided for guidance to adequately complete the Mitigation Measure Analysis form.**

1. The applicant shall respond to each Mitigation Measure, and all subsets of mitigation measures; i.e. K.2.d.i should be addressed and K.2.d.ii, and so forth.
2. The applicant's response shall begin by clearly indicating if the **mitigation measure is satisfied**, an **exception is requested**, or if the mitigation measure is **not applicable**.
3. The applicants' response shall then address how the proposed project clearly satisfies the mitigation measure, meets the intent of the mitigation measure, is not practicable, or is not applicable.
4. The applicant shall verify working 'in consultation with' parties other than Department of Natural Resources (DNR), Division of Oil and Gas (DO&G) by reporting meeting dates and parties present for Mitigation Measures which require consultation with parties other than DNR, DO&G; i.e. Mitigation Measure 1.b.

**Please note that this form, along with the Plan of Operations Application form and the Plan of Operations, must be adequately completed before DNR DO&G will review an application for potential approval.**

NORTH SLOPE	Company Response
K. Mitigation Measures	
<b>1. Facilities and Operations</b>	
<p>a. Oil and gas facilities, including pipelines, shall be designed using industry-accepted engineering codes and standards. Technical submittals to the Division of Oil and Gas (DO&amp;G) that reflect the “practice of engineering,” as defined by AS 08.48.341, must be sealed by a professional engineer registered in the State of Alaska.</p>	<p>K.1.a. Satisfied.            The proposed project will be designed using industry-accepted engineer codes and standards. The sealed project drawings are available upon request.</p>
<p>b. A plan of operations shall be submitted and approved before conducting exploration, development, or production activities in accordance with 11 AAC 83.</p>	<p>K.1.b. Satisfied.            A Unit Plan of Operations Amendment approval will be obtained prior to construction.</p>
<p>c. Facilities shall be designed and operated to minimize sight and sound impacts in areas of high residential, recreational, and subsistence use and important wildlife habitat.</p>	<p>K.1.c. Satisfied.            The proposed project is not in an area of high residential, recreational or subsistence use. The project is located within the existing Alpine Oil Field. CPAI has dedicated community relations resources focused on providing project information to Nuiqsut, the closest community to the North Slope operations.</p>
<p>d. The siting of facilities, including roads, airstrips, and pipelines, is prohibited within one-half mile of the coast as measured from the mean high water mark and 500 feet of all fish bearing waterbodies.</p>	<p>K.1.d. Satisfied.            The proposed project does not involve any new roads or airstrips and will not be located within one-half mile of the coast. There are no lakes within 500 feet of the project area.</p>
<p>e. Notwithstanding (d) above, the siting of facilities is prohibited within one-half mile of the banks of the Colville, Canning, Sagavanirktok, Kavik, Shavirovik, Kadleroshilik, Echooka, Ivishak, Kuparuk, Toolik, Anaktuvuk and Chandler Rivers as measured from the ordinary high water mark. Facilities may be sited, on a case-by-case basis, within the one-half mile buffer if the lessee demonstrates that siting of such facilities outside this buffer zone is not feasible or prudent, or that a location within the buffer is environmentally preferable.</p>	<p>K.1.e. Satisfied.            The proposed project will not be within one-half mile of the banks of the Colville, Canning, Sagavanirktok, Kavik, Shavirovik, Kadleroshilik, Echooka, Ivishak, Kuparuk, Toolik, Anaktuvuk and Chandler Rivers. The proposed project is within one-half mile of the Sagoonang Channel of the Colville River on the west side of the established Alpine Operations Center (AOC). Siting of the new gravel addition at the established gravel pad is functionally and environmentally preferable to establishing a new location outside the buffer zone.</p>

<p>f. No facilities will be sited within one-half mile of identified Dolly Varden overwintering and/or spawning areas on the Canning, Shaviovik, and Kavik rivers. Notwithstanding the previous sentence, road and pipeline crossings may only be sited within these buffers if the lessee demonstrates to the satisfaction of the Director and Alaska Department of Fish and Game (ADF&amp;G) in the course of obtaining their respective permits, that either</p> <p>(1) the scientific data indicate the proposed crossing is not within an overwintering or spawning area; or (2) the proposed road or pipeline crossing will have no significant adverse impact to Dolly Varden overwintering or spawning habitat.</p>	<p>K.1.f. Satisfied.</p> <p>The proposed project is not within one half mile of any Dolly Varden overwintering or spawning areas on the Canning, Shaviovik, and Kavik rivers.</p>
<p>g. Impacts to important wetlands shall be minimized to the satisfaction of the Director, in consultation with ADF&amp;G and Alaska Department of Environmental Conservation (ADEC). The Director will consider whether facilities are sited in the least sensitive areas.</p>	<p>K.1.g. Satisfied.</p> <p>CPAI has already avoided and minimized impacts to the maximum extent possible. Although these wetlands are located within a region considered unique to resource agencies, the small size of proposed impacts and their proximity and relationship to an existing development project do not lift their values to a level that would require special consideration.</p> <p>The total wetlands impacted by this project as proposed is 0.49 acres.</p>
<p>h. Exploration roads, pads, and airstrips shall be temporary and constructed of ice. Use of gravel roads, pads, and airstrips may be permitted on a case-by-case basis by the Director, in consultation with Division of Mining, Land, and Water (DMLW) and ADF&amp;G.</p>	<p>K.1.h. Not Applicable.</p> <p>The proposed project is not an exploration program.</p>
<p>i. Road and pipeline crossings shall be aligned perpendicular or near perpendicular to watercourses.</p>	<p>K.1.i. Not Applicable.</p> <p>The proposed project is not a road or pipeline crossing.</p>
<p>j. Pipelines</p>	<p>K.1.j. Not Applicable.</p> <p>The proposed project does not require any additional pipelines.</p>
<p>i. Shall use existing transportation corridors and be buried where soil and geophysical conditions permit.</p>	<p>K.1.h.i. Not Applicable.</p> <p>The proposed project does not require any additional pipelines.</p>

<p>ii. In areas with above ground placement, pipelines shall be designed, sited, and constructed to allow for the free movement of wildlife and to avoid significant alteration of caribou and other large ungulate movement and migration patterns.</p>	<p>K.1.j. ii. Not Applicable.          The proposed project does not require any additional pipelines.</p>
<p>iii. At a minimum, above ground pipelines shall be elevated seven feet, as measured from the ground to the bottom of the pipeline, except where the pipeline intersects a road, pad, or a ramp installed to facilitate wildlife passage. A lessee shall consider snow depth in relation to pipe elevation to ensure adequate clearance for wildlife.</p>	<p>K.1.j.iii. Not Applicable.          The proposed project does not require any additional pipelines.</p>
<p>iv. Pipelines and gravel pads shall facilitate the containment and cleanup of spilled fluids.</p>	<p>K1.j. iv. Not Applicable.          The proposed project does not require any additional pipelines.</p>
<p>k. Causeways and docks shall not be located in river mouths or deltas. Approved causeways shall be designed, sited, and constructed to prevent significant changes to nearshore oceanographic circulation patterns and water quality characteristics (e.g., salinity, temperature, suspended sediments) that result in exceedances of water quality criteria, and must maintain free passage of marine and anadromous fish.</p>	<p>K.1.k. Not Applicable.          The proposed project does not require any causeways or docks.</p>
<p>l. Artificial gravel islands and bottom founded structures shall not be located in river mouths or active stream channels on river deltas, except as provided for in (m) below.</p>	<p>K.1.l. Not Applicable.          The proposed project does not require any artificial gravel islands or bottom founded structures.</p>
<p>m. Each proposed structure will be reviewed on a case-by-case basis. Causeways, docks, artificial gravel islands and bottom founded structures may be permitted if the Director, in consultation with ADF&amp;G and ADEC, determines that a causeway or other structures are necessary for field development and that no practicable alternatives exist. A monitoring program may be required to address the objectives of water quality and free passage of fish, and mitigation shall be required where significant deviation from objectives occurs.</p>	<p>K.1.m. Not Applicable.          The proposed project does not require any causeways, docks, artificial gravel islands or bottom founded structures.</p>

<p>n. Upon abandonment of material sites, drilling sites, roads, buildings or other facilities, such facilities must be removed and the site rehabilitated to the satisfaction of the Director, unless the Director and any non-state surface owner, determines that such removal and rehabilitation is not in the state's interest.</p>	<p>K.1.n. Satisfied.</p> <p>At end of field life, CPAI would fully dismantle, remove, and restore all temporary and permanent improvements approved by the Plan of Operations unless the State of Alaska determines, at the time of rehabilitation, that different rehabilitation measures are necessary to deliver up the land in good order and condition.</p>
<p>o. Material sites required for exploration and development activities shall be:</p> <ul style="list-style-type: none"> <li>i. restricted to the minimum necessary to develop the field efficiently and with minimal environmental damage,</li> <li>ii. where practicable, designed and constructed to function as water reservoirs for future use, and</li> <li>iii. located outside active floodplains of a watercourse unless the Director DMLW, after consultation with ADF&amp;G, determines that there is no practicable alternative, or that a floodplain site would enhance fish and wildlife habitat after mining operations are completed and the site is closed.</li> </ul>	<p>K.1.o. Not Applicable.</p> <p>The proposed project does not require new material sites.</p> <p>K.1.o.i. Not Applicable.</p> <p>The proposed project does not require new material sites.</p> <p>K.1.o. ii. Not Applicable.</p> <p>The proposed project does not require new material sites.</p> <p>K.1.o.iii. Not Applicable.</p> <p>The proposed project does not require new material sites.</p>
<p>p. The Director may include plan stipulations if necessary to reduce or eliminate adverse impacts to fish and wildlife or to protect the environment.</p>	<p>K.1.p. Satisfied.</p> <p>The proposed project will not impact fish and has been designed to utilize existing infrastructure, where practicable, while meeting project needs and protecting wildlife and the environment.</p>
<p><b>2. Fish and Wildlife Habitat</b></p>	
<p>a. The lessee shall consult with the North Slope Borough (NSB) before proposing the use of explosives for seismic surveys. The Director may approve the use of explosives for seismic surveys after consultation with the NSB.</p>	<p>K.2.a. Not Applicable</p> <p>The proposed project does not include the use of explosives and is not a seismic project.</p>

<p>b. Any water intake structures in fish bearing or non-fish bearing waters shall be designed, operated, and maintained to prevent fish entrapment, entrainment, or injury. All water withdrawal equipment must be equipped and must use fish screening devices approved by ADF&amp;G.</p>	<p>K.2.b. Not Applicable.          CPAI uses ADF&amp;G approved fish screens for all water withdrawal.</p>
<p>c. Removal of snow from fish-bearing rivers, streams, and natural lakes shall be subject to prior written approval by ADF&amp;G. Compaction of snow cover overlying fish-bearing waterbodies is prohibited except for approved crossings. If ice thickness is not sufficient to facilitate a crossing, then ice or snow bridges may be required.</p>	<p>K.2.c. Not Applicable.          The proposed project does not include the use of ice roads or ice pads. CPAI will obtain written approval by ADF&amp;G if removal of snow from fish-bearing rivers, streams or natural lakes is required to support the proposed project.</p>
<p>d. Bears:</p>	<p>K.2.d. Satisfied.</p>
<p>i. Brown bears</p>	<p>K.2.d.i. Satisfied.</p>
<p>A. A lessee must consult with ADF&amp;G before commencing any activities to identify the locations of known brown bear den sites that are occupied in the season of proposed activities.</p>	<p>K.2.d.i.A. Satisfied.          CPAI will consult with ADF&amp;G prior to the start of activities to identify any known brown bear den sites that are occupied during the proposed activity season. All brown bear dens encountered by project personnel will be reported to ADF&amp;G within 24 hours. If deviation from the requirement is necessary, ADF&amp;G personnel will be contacted for approval.</p>
<p>B. Exploration and production activities shall not be conducted within one-half mile of occupied brown bear dens unless alternative mitigation measures are approved by ADF&amp;G.</p>	<p>K.2.d.i.B. Not Applicable.          The proposed project is not an exploration and production program.</p>
<p>C. A lessee who encounters an occupied brown bear den not previously identified by ADF&amp;G shall report it to the Division of Wildlife Conservation, ADF&amp;G, within 24 hours. The lessee will avoid conducting mobile activities one-half mile from discovered occupied dens unless alternative mitigation measures are approved by the Director, with concurrence from ADF&amp;G. Non-mobile facilities will not be required to relocate.</p>	<p>K.2.d.i.C. Satisfied.          All brown bear dens encountered by project personnel will be reported to ADF&amp;G within 24 hours. If deviation from the requirement is necessary, ADF&amp;G personnel will be contacted for approval.</p>
<p>ii. Polar bears</p>	<p>K.2.d. ii. Satisfied.          CPAI <i>Polar Bear/Personnel Encounter Plan</i> is an attachment to the Wildlife Avoidance</p>

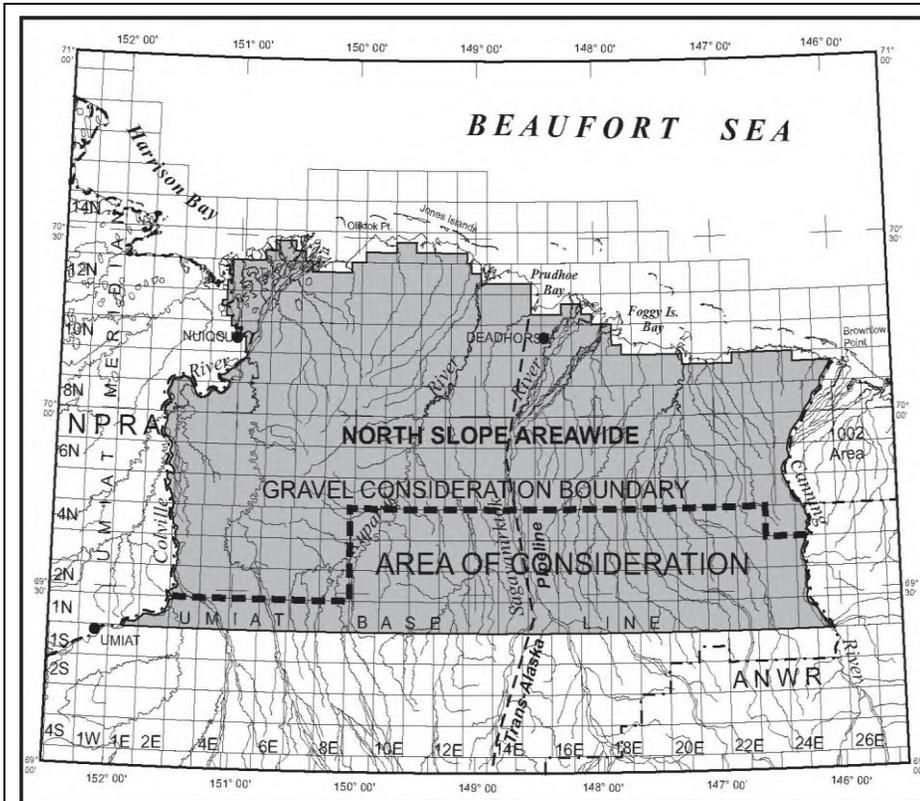
	and Interaction Plan.
A. Consultation with the US Fish and Wildlife Service (USFWS) is required prior to commencement of any activities as required by the Endangered Species Act, and also to identify the locations of known polar bear den sites.	K.2.d.ii.A. Satisfied. CPAI will consult with USFWS prior to activity beginning and will identify the location of known polar bear den sites.
B. Operations shall avoid known polar bear dens by at least one mile.	K.2.d.ii.B. Satisfied. CPAI will avoid known polar bear dens.
C. A lessee who encounters an occupied polar bear den not previously identified by USFWS shall report it to the USFWS within 24 hours and subsequently avoid the new den by at least one mile.	K.2.d.ii.C. Satisfied. All polar bear dens encountered by project personnel will be reported to USFWS within 24 hours.
D. If a polar bear should den within an existing development, off-site activities shall be restricted to minimize disturbance.	K.2.d.ii.D. Satisfied. If a polar boar should den near the proposed project area, the off-site activity will be restricted to minimize disturbance.
iii. For projects in proximity to areas frequented by bears, the lessee is required to prepare and implement a human-bear interaction plan designed to minimize conflicts between bears and humans. The plan shall include measures to:	K.2.d.iii. Satisfied. CPAI has a Wildlife Avoidance and Interaction Plan to minimize conflicts between bears and humans. The plan discusses the proper handling of food and food waste, infrastructure design, grizzly and polar bear alert system, deterrence guidelines, and reporting.
A. minimize attraction of bears to facility sites;	K.2.d.iii.A. Satisfied. See response for K.2.d.iii.
B. organize layout of buildings and work areas to minimize interactions between humans and bears;	K.2.d.iii.B. Satisfied. See response for K.2.d.iii.
C. warn personnel of bears near or on facilities and the proper actions to take;	K.2.d.iii.C. Satisfied. See response for K.2.d.iii.
D. if authorized, deter bears from the drill site;	K.2.d.iii.D. Satisfied.

	See response for K.2.d.iii.
E. provide contingencies in the event bears do not leave the site;	K.2.d.iii.E. Satisfied. See response for K.2.d.iii.
F. discuss proper storage and disposal of materials that may be toxic to bears; and	K.2.d.iii.F. Satisfied. See response for K.2.d.iii.
G. provide a systematic record of bears on the site and in the immediate area.	K.2.d.iii.G. Satisfied. See response for K.2.d.iii.
e. Permanent, staffed facilities shall be sited to the extent practicable outside identified brant, white-fronted goose, snow goose, tundra swan, king eider, common eider, Steller's eider, spectacled eider, and yellow-billed loon nesting and brood rearing areas.	K.2.e. Not applicable. The proposed project does not include a permanent staffed facility.
f. The Director, in consultation with ADF&G, may impose additional and seasonal restrictions on activities located in, or requiring travel through or overflight of, important caribou or other large ungulate calving and wintering areas during the plan of operations approval stage.	K.2.f. Satisfied. This project is adjacent to an existing drill site and does not include travel through or overflight of important caribou or other large ungulate calving and wintering areas.
<b>3. Subsistence, Commercial and Sport Harvest Activities</b>	
a. Lease-related use will be restricted if necessary to prevent unreasonable conflicts with subsistence, commercial, or sport fish and wildlife harvest activities. Traditional and customary access to subsistence areas will be maintained unless reasonable alternative access is provided to subsistence users. "Reasonable access" is access using means generally available to subsistence users. Lessees will consult the NSB, nearby communities, and native organizations for assistance in identifying and contacting local subsistence users.	K.3.a. Satisfied. The proposed project is adjacent to an existing drill site. There are few or no adverse impacts expected from this project to subsistence users. Subsistence Advisors will be hired to help avoid impacting subsistence resources during project construction. These local personnel will work with CPAI to monitor off-pad activities in the Alpine Development Area.
b. Before submitting a plan of operations that has the potential to disrupt subsistence activities, the lessee will consult with the potentially affected subsistence communities and the NSB (collectively "parties") to discuss the siting, timing, and methods of proposed operations and safeguards or mitigating measures that could be	K.3.b. Satisfied. CPAI has dedicated community relations resources focused on providing project information to Nuiqsut, the closest community to the North Slope operations.

<p>implemented by the operator to prevent unreasonable conflicts. The parties will also discuss the reasonably foreseeable effect on subsistence activities of any other operations in the area that they know will occur during the lessee's proposed operations. Through this consultation, the lessee will make reasonable efforts to ensure that exploration, development, and production activities are compatible with subsistence hunting and fishing activities and will not result in unreasonable interference with subsistence harvests.</p>	<p>CPAI will contact the Native Village of Nuiqsut, Kuukpik Corporation, and the City of Nuiqsut with the project description and maps of the project area as part of the NSB Traditional Land Use Inventory (TLUI) cultural clearance procedure.</p> <p>The majority of the proposed activity will take place adjacent to an existing drill site at CD1. There are few or no adverse impacts expected from this project to subsistence users.</p>
<p><b>4. Fuel, Hazardous Substances and Waste</b></p>	
<p>a. The lessee will ensure that secondary containment is provided for the storage of fuel or hazardous substances and sized as appropriate to container type and according to governing regulatory requirements in 18 AAC 75 and 40 CFR 112. Containers with an aggregate storage capacity of greater than 55 gallons that contain fuel or hazardous substances will not be stored within 100 feet of a waterbody, or within 1,500 feet of a current surface drinking water source.</p>	<p>K.4.a. Satisfied.</p> <p>Diesel may be stored on site during construction operations. Other fluid storage during the operations phase includes construction wastes, such as used oil and other hydrocarbon products, methanol, and glycol. Oil storage will comply with state and federal oil pollution prevention requirements, according to the Alpine Oil Discharge Prevention and Contingency plan (ODPCP) and Spill Prevention, Control, and Countermeasure (SPCC) Plan. Secondary containment for regulated oil storage tanks would be sized appropriately to the container type and according to governing regulatory requirements in 18 Alaska Administrative Code (AAC) 75 and 40 Code of Federal Regulations (CFR) 112.</p>
<p>b. During equipment storage or maintenance, the site must be protected from leaking or dripping fuel and hazardous substances by the placement of drip pans or other surface liners designed to catch and hold fluids under the equipment, or by creating an area for storage or maintenance using an impermeable liner or other suitable containment mechanism.</p>	<p>K.4.b. Satisfied.</p> <p>All fueling and transfer operations will be performed in accordance with the Fieldwide Standard Operation Procedure (Kuparuk and Alpine) for Fluid Transfers (CPAI-005) and liners will be used as required by the Fieldwide Standard Operating Procedures for Liners and Drip Pan Use (F-006). Drip pans will be placed under parked vehicles or equipment to capture fluids.</p>
<p>c. During fuel or hazardous substance transfer, secondary containment or a surface liner must be placed under all container or vehicle fuel tank inlet and outlet points, hose connections, and hose ends. Appropriate spill response equipment, sufficient to respond to a spill of up to five gallons, must be on hand during any transfer or handling of fuel or hazardous substances.</p>	<p>K.4.c. Satisfied.</p> <p>Fuel and hazardous substance transfers will be performed in accordance with CPAI Fieldwide Standard Operating Procedure for Fluid Transfers. Spill response equipment will be on hand during any transfer or handling of fuel or hazardous substances sufficient to respond to a spill of up to five gallons. CPAI will provide training to employees on preventing oil or hazardous materials.</p>

<p>d. Vehicle refueling will not occur within the annual floodplain, except as addressed and approved in the plan of operations. This measure does not apply to water-borne vessels.</p>	<p>K.4.d. Not applicable          The proposed project is outside of the floodplain.</p>
<p>e. All independent fuel and hazardous substance containers must be marked with the contents and the lessee's or contractor's name using paint or a permanent label.</p>	<p>K.4.e. Not applicable.          The proposed project does not involve additional fuel and hazardous substance containers.</p>
<p>f. A freshwater aquifer monitoring well, and quarterly water quality monitoring, is required down gradient of a permanent storage facility, unless alternative acceptable technology is approved by ADEC.</p>	<p>K.4.f. Not Applicable.          The project does not include a freshwater aquifer monitoring well.</p>
<p>g. Waste from operations must be reduced, reused, or recycled to the maximum extent practicable. Garbage and domestic combustibles must be incinerated whenever possible or disposed of at an approved site in accordance with 18 AAC 60.</p>	<p>K.4.g. Satisfied.          Garbage and domestic combustibles will be stored in enclosed wildlife proof Conex containers or will be incinerated as allowable.</p>
<p>h. Proper disposal of garbage and putrescible waste is essential to minimize attraction of wildlife. The lessee must use the most appropriate and efficient method to achieve this goal. The primary method of garbage and putrescible waste is prompt, on-site incineration in compliance with State of Alaska air quality regulations. The secondary method of disposal is on-site frozen storage in animal-proof containers with backhaul to an approved waste disposal facility. The tertiary method of disposal is on-site non-frozen storage in animal proof containers with backhaul to an approved waste disposal facility. Daily backhauling of non-frozen waste is required unless safety considerations prevent it.</p>	<p>K.4.h. Satisfied.          Solid, non-burnable waste will be deposited in large dumpsters located at the site. These containers will be backhauled to the NSB landfill at Prudhoe Bay. Food waste that could attract wildlife will be placed in a secured wildlife proof container while waiting for pickup.</p>
<p>i. New solid waste disposal sites, other than for drilling waste, will not be approved or located on state property for exploration.</p>	<p>K.4.i. Not Applicable          No new solid waste disposal sites will be developed as part of the proposed project.</p>
<p>j. The preferred method for disposal of muds and cuttings from oil and gas activities is by underground injection. Drilling mud and cuttings will not be discharged into lakes, streams, rivers, or wetlands. On-pad temporary cuttings storage may be allowed as necessary to facilitate annular injection and backhaul operations. Injection of non-hazardous oilfield wastes is regulated by Alaska Oil and Gas Conservation Commission through its Underground Injection Control Program for oil and gas wells.</p>	<p>K.4.j. Not Applicable.          The proposed project does not involve the disposal of muds or cuttings.</p>

<b>5. Access</b>	
<p>a. Exploration activities must be supported only by ice roads, winter trails, existing road systems, or air service. Wintertime off-road travel across tundra and wetlands may be approved in areas where snow and frost depths are sufficient to protect the ground surface</p>	<p>K.5.a. Not Applicable.          The proposed project is not an exploration program.</p>
<p>b. Summertime off-road travel across tundra and wetlands may be authorized subject to time periods and vehicle types approved by DMLW.</p>	<p>K.5.b. Not Applicable.          CPAI does not plan to conduct any off-road travel for this project.</p>
<p>c. Emergency exceptions may be granted by the Director of DMLW, and the Director, if it is determined that travel can be accomplished without damaging vegetation or the ground surface on a site-specific basis.</p>	<p>K.5.c. Not Applicable.          CPAI does not plan to conduct any off-road travel for this project.</p>
<p>d. Gravel use may be authorized on a site-specific basis if it is determined, after consulting with ADF&amp;G and DMLW, that no practicable alternatives exist for constructing an exploration road or pad in the area south of the boundary described below and depicted in the map below:</p> <p>Beginning at the NPR-A boundary, from the northeast corner of T 1N, R 2E, then east to the northwest corner of T 1N, R 9E, then north to the northwest corner of T 4N, R 9E, then east to the northwest corner of T 4N, R 23E, then south to the southwest corner of T 4N, R 23E, and then east along the top of T 3N to the ANWR boundary.</p>	<p>K.5.d. Not Applicable.          The proposed project is not an exploration program.</p>



**Figure 0.1.— Gravel Consideration Boundary**

e. Public access to, or use of, the lease area may not be restricted except within the immediate vicinity of drill sites, buildings, and other related structures. Areas of restricted access must be identified in the plan of operations.

K.5.e. Satisfied.

The proposed project is adjacent to the existing CD1 drill site therefore public access is restricted due to safety purposes. Site visits by government agency personnel for purposes other than impromptu inspections should be arranged through the CPAI Alpine Field Environmental Coordinator (phone number 907-670-4200).

**6. Prehistoric, Historic, and Archeological Sites**

<p>a. Before the construction or placement of any structure, road, or facility supporting exploration, development, or production activities, the lessee must conduct an inventory of prehistoric, historic, and archeological sites within the area, including a detailed analysis of the effects that might result from that construction or placement.</p>	<p>K.6.a. Not Applicable.</p> <p>The proposed project area has been examined in part by previous cultural resource efforts, during surveys for proposed exploration drilling and development projects. CPAI has reviewed the databases of TLUI and Alaska Heritage Resource Survey locations and there are no sites within 500 feet of the proposed project area.</p>
<p>b. The inventory of prehistoric, historic, and archeological sites must be submitted to the Director and the Office of History and Archeology (OHA) who will coordinate with the NSB for review and comment. If a prehistoric, historic, or archeological site or area could be adversely affected by a lease activity, the Director, after consultation with OHA and the NSB, will direct the lessee as to the course of action to take to avoid or minimize adverse effects.</p>	<p>K.6.b. Not Applicable.</p> <p>The area has been examined for cultural resources and historical artifacts by Reanier and Associates. Village leaders from Nuiqsut will be consulted and a request for NSB TLUI clearance will be submitted. US Army Corps of Engineers will conduct a Section 106 consultation for this project as part of their review.</p> <p>Cultural or archaeological resources are not expected to be affected by this project.</p>
<p>c. If a site, structure, or object of prehistoric, historic, or archaeological significance is discovered during lease operations, the lessee shall report the discovery to the Director as soon as possible. The lessee shall make all reasonable efforts to preserve and protect the discovered site, structure, or object from damage until the Director, after consultation with the State Historic Preservation Office and the NSB, has directed the lessee on the course of action to take for its preservation.</p>	<p>K.6.c. Satisfied.</p> <p>Should any sites or objects of prehistoric, historic, or archeological significance be discovered, the find will be reported to the Director, State Historic Preservation Office and the NSB and reasonable efforts made to preserve the site or objects.</p>
<p><b>7. Hiring Practices</b></p>	
<p>a. The lessee is encouraged to employ local and Alaska residents and contractors, to the extent they are available and qualified, for work performed in the lease area. Lessees shall submit, as part of the plan of operations, a hiring plan that shall include a description of the operator's plans for partnering with local communities to recruit, hire, and train local and Alaska residents and contractors. As a part of this plan, the lessee is encouraged to coordinate with employment and training services offered by the State of Alaska and local communities to train and recruit employees from local communities.</p>	<p>K.7.a. Satisfied.</p> <p>CPAI is committed to continuing its partnership with local contractors and business in the construction of the proposed project through competitive bid contracting opportunities.</p> <p>When reasonably foreseeable to do so, CPAI is committed to hire and where appropriate, to provide training to Kuukpik Shareholders, Nuiqsut residents, and Alaska Natives.</p> <p>When appropriate, local resident hire will be coordinated through the Kuukpik employment coordinator to identify and place qualified individuals interested in working on the project.</p> <p>In addition, CPAI and its contractors assist with scholarships, career training and</p>



<ul style="list-style-type: none"> <li>iii. using methods to ensure personnel understand and use techniques necessary to preserve geological, archeological, and biological resources; and</li> <li>iv. designed to help personnel increase their sensitivity and understanding of community values, customs, and lifestyles in areas where they will be operating.</li> </ul>	<p>training for Alpine.</p> <p>K.7.d.iii. Satisfied. See response for K.7.d. ii</p> <p>K.7.d. iv. Satisfied. See response for K.7.d. ii</p>
<p><b>8. Definitions</b></p>	
<p>a. In this document:</p> <ul style="list-style-type: none"> <li>i. <b>Facilities</b> – Any structure, equipment, or improvement to the surface, whether temporary or permanent, including, but not limited to, roads, pads, pits, pipelines, power lines, generators, utilities, airstrips, wells, compressors, drill rigs, camps, and buildings.</li> <li>ii. <b>Hazardous substance</b> – As defined under 42 USC 9601 – 9675 (Comprehensive Environmental Response, Compensation, and Liability Act of 1980).</li> <li>iii. <b>Important wetlands</b> – Those wetlands that are of high value to fish, waterfowl, and shorebirds because of their unique characteristics or scarcity in the region or that have been determined to function at a high level using the hydrogeomorphic approach.</li> <li>iv. <b>Minimize</b> – To reduce adverse impacts to the smallest amount, extent, duration, size, or degree reasonable in light of the environmental, social, or economic costs of further reduction.</li> <li>v. <b>Plan of operations</b> – A lease plan of operations under 11 AAC 83.158 and a unit plan of operations under 11 AAC 83.346.</li> <li>vi. <b>Practicable</b> – Feasible in light of overall project purposes after considering cost, existing technology, and logistics of compliance with the mitigation measure.</li> <li>vi. <b>Secondary containment</b> – An impermeable diked area, portable impermeable containment structure, or integral containment space capable of containing the volume of the largest independent container. The containment shall, in the case of external</li> </ul>	

containment, have enough additional capacity to allow for local precipitation.

vi. **Temporary** – No more than 12 months.



**APPENDIX C: OTHER**

See attached project description.



## **CD1 Lakeshore Drive Gravel Addition Project Description**

ConocoPhillips Alaska, Inc. (CPAI) proposes to place approximately 5,760 cubic yards of clean gravel fill into a total of 0.49 acres of tundra to expand the west side of Colville Delta 1 (CD1) gravel pad. The gravel addition will support the installation of two water storage tanks and one smoke shack which will be located west of the existing J1 Warehouse. The addition will also increase the safety of vehicle and equipment traffic and maintain the requisite space for rig movement across the pad.

The proposed project will provide space on the west side, or Lakeshore Drive area, of the existing CD1 gravel pad for the installation of two 400-barrel (bbl) water tanks and a new smoke shack. The tanks will be placed in secondary containment outside of the existing J1 Warehouse, as shown in the attached figures, and will be used to store water for pressure washing and/or steaming cleaning equipment in the existing J1 wash bay. Additionally, a new smoke shack will be installed to provide a designated smoking area. A trench will be excavated to install power cables to the smoke shack.

Space on the CD1 gravel pad is limited and the project is needed to maintain the safe and reliable operation of existing North Slope infrastructure and to support ongoing and planned activities. The proposed gravel fill provides both a foundation for the proposed building and maintains the driving surface needed for safe rig movement on the pad.

The project will be located east of the National Petroleum Reserve – Alaska (NPR-A), between the Nigliq Channel and the Colville River Main Channel. Work will occur within the Umiat meridian, Township 12N, Range 5E, Section 32.

Construction activities are planned to begin January 30, 2024.

Equipment used for this project includes, but is not limited to, standard heavy-duty equipment such as dump trucks, loaders, excavators, bulldozers, graders, and compactors.

Minor site-specific variations are likely to occur due to field conditions. All activities will be conducted in accordance with federal, state, and local regulations, permit stipulations and general concurrence stipulations as appropriate.