Project Description
Sagavanirktok River Channel Maintenance
Modification to POA-2020-00147
Prudhoe Bay Unit

1. INTRODUCTION

Seasonal flooding in the Sagavanirktok (Sag) River occurs annually and impacts the Sag River vehicle and pipeline bridges. This flooding deposits large quantities of silt and gravel immediately upstream and downstream of the bridges and causes scour depressions around the bridges support structures. Hilcorp North Slope, LLC (Hilcorp) is requesting modification to the existing multi-year maintenance permit (POA-2020-00147) to excavate silt and gravel from the river channels and infill scour areas with recovered gravel.

The maintenance work is designed to support the integrity of the bridge supports and ensure adequate fish transport in the area surrounding the bridges. The maintenance is expected to decrease flood damage to infrastructure including pipelines, roads, and production pads on the Sag River flood plain. Endicott Road is a vital transportation corridor and is the only summer vehicle access route for the Duck Island Unit.

2. PROJECT DESCRIPTION

The scope of this project is to improve water flow under the Sag River vehicle bridge and pipe bridge by recontouring the river bottom to follow the natural slope of the riverbed. This will be done by excavating high areas down to the 4 ft above sea level elevation and filling low areas back up to the 4 ft elevation. Additional area downstream of the bridges will be scoured to remove gravel plugging the pump supplying water for PBOC. Without remediation, the pump will become unusable. The details of the execution are as follows:

2.1 Recontouring of Sag Riverbed

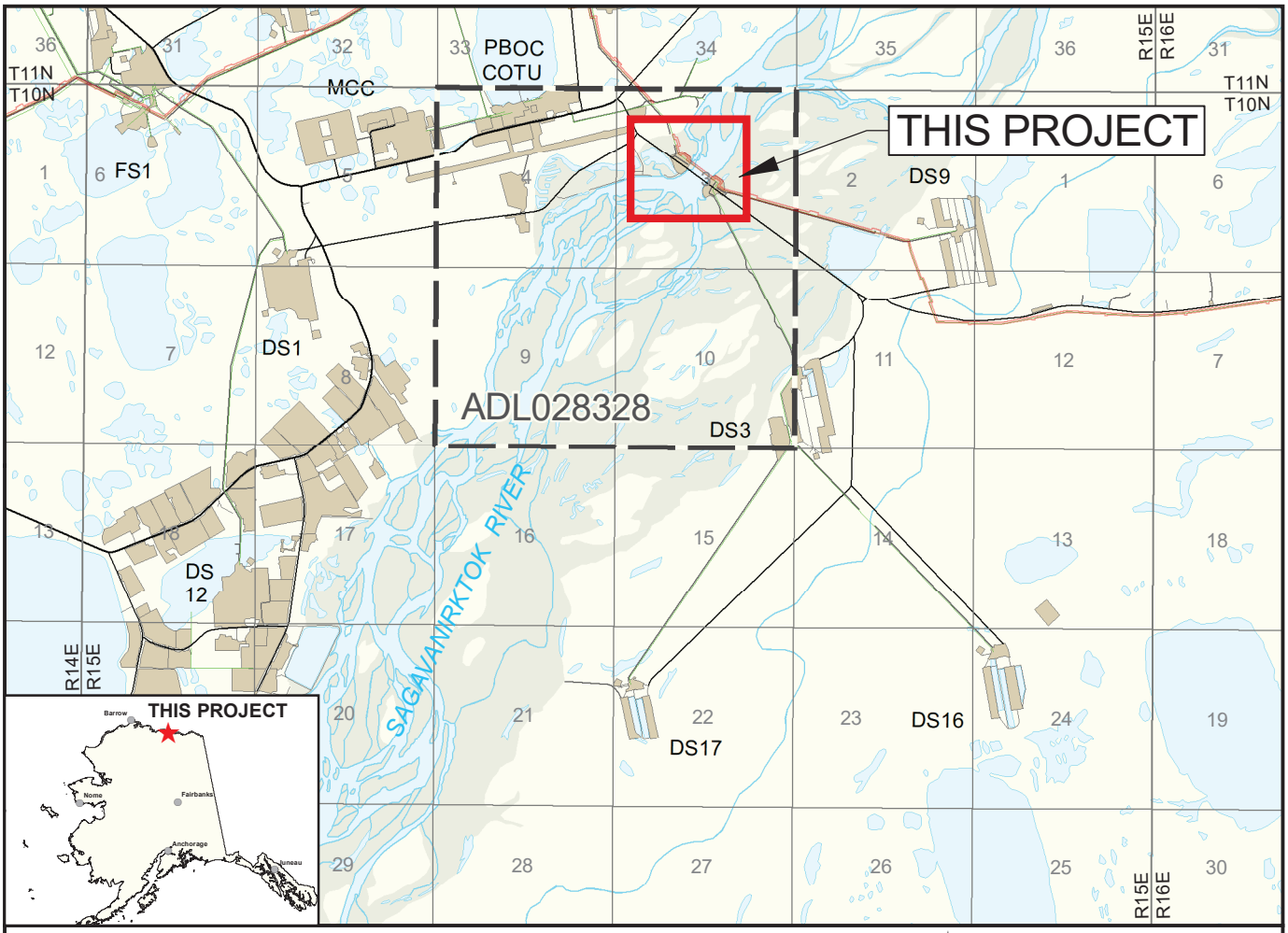
- Dredge approximately 13 acres of riverbed to remove approximately 45,000 cubic yards of gravel
- Dredged material will be spread over approximately 7 acres to flatten the river bottom
- Leftover material will also be placed on the opposite side of the vehicle and pipe bridges to replenish the bulkhead area of the east bank
- Typical equipment to be used for excavation and recontouring includes dozers and excavators of various sizes

2.2 Access Ramps

- Construct a 100-foot by 50-foot temporary gravel ramp on the west bank of the Sag River using approximately 200 cubic yards of gravel
- Construct an additional 100-foot by 50-foot temporary gravel ramp on the east bank using approximately 200 cubic yards of gravel
- Gravel ramps will be used to remove material from the excavation area and manage water flow to protect the work area during project execution

3. SCHEDULE

This project is scheduled to begin in October 2025 and will be executed during the period of lowest flow volume in the river. The anticipated timeline for the project is 45 days, with some variability depending on flow. This channel maintenance activity will be required annually through the duration of the existing ten-year maintenance permit for dredging of the Sag River.



This map is based on U.S.G.S quad Beechey Point (A-3)
and on the Unit Operator's Facility Maps.

NORTH

PROJECT LOCATION:

PRUDHOE BAY UNIT - SAG RIVER BRIDGES

NAD83
LAT. = 70° 14' 59.461" / DD 70.249850
LONG. = -148° 18' 17.799" / DD -148.304944

ALASKA STATE PLANE ZONE 4, NAD83
X = 1,850,190.54 FEET
Y = 5,943,715.24 FEET

ADL028328 SEC. 3 T10N, R15E UMIAT M.

DATUM: MEAN SEA LEVEL

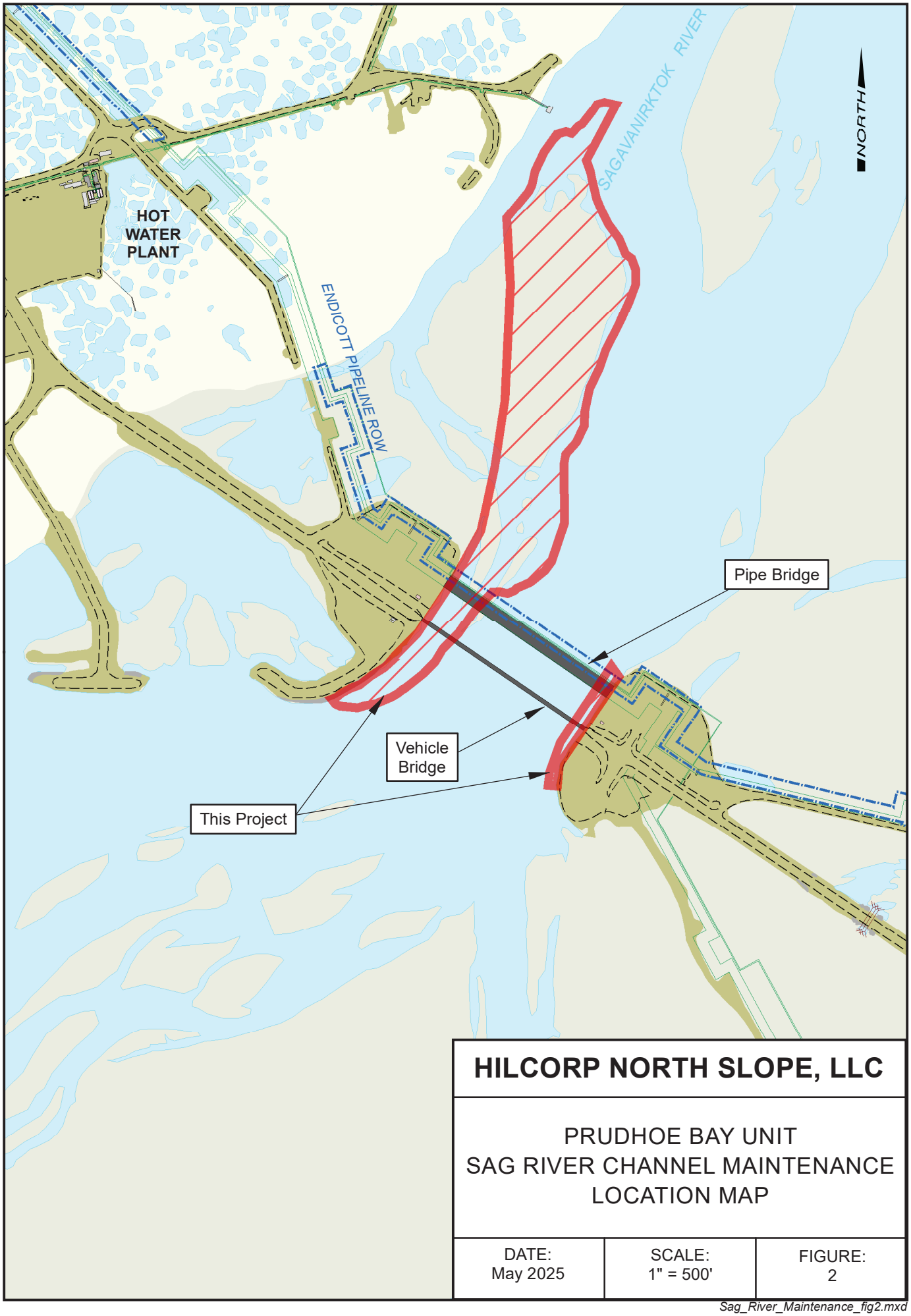
ADJACENT PROPERTY OWNER:
STATE OF ALASKA

HILCORP NORTH SLOPE, LLC

PRUDHOE BAY UNIT
SAG RIVER CHANNEL MAINTENANCE
VICINITY MAP

DATE:	SCALE:	FIGURE:
August 2024	1" = 1 Mile	1

Sag_River_Maintenance_fig1.mxd

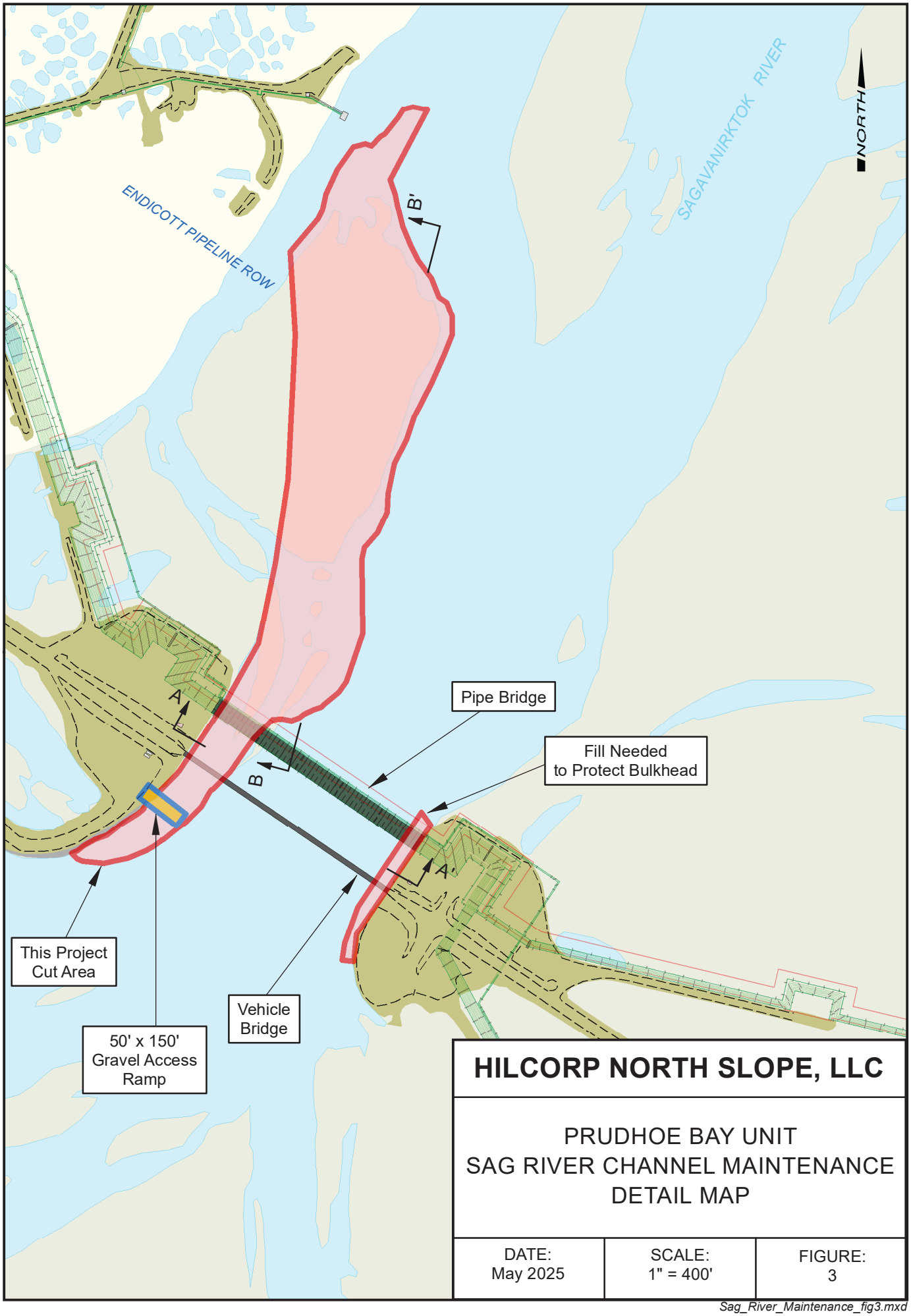


HILCORP NORTH SLOPE, LLC

PRUDHOE BAY UNIT
SAG RIVER CHANNEL MAINTENANCE
LOCATION MAP

DATE:	SCALE:	FIGURE:
May 2025	1" = 500'	2

Sag_River_Maintenance_fig2.mxd



HILCORP NORTH SLOPE, LLC

PRUDHOE BAY UNIT
SAG RIVER CHANNEL MAINTENANCE
DETAIL MAP

DATE:	SCALE:	FIGURE:
May 2025	1" = 400'	3

Sag_River_Maintenance_fig3.mxd