



FH# \_\_\_\_\_  
(Office Use Only)

**FISH HABITAT PERMIT APPLICATION**  
Alaska Department of Fish and Game - Habitat Section  
[Office Locations](#)

**A. APPLICANT**

Name: \_\_\_\_\_

Mailing Address: \_\_\_\_\_

Email Address: \_\_\_\_\_

Phone: \_\_\_\_\_ Alt Phone: \_\_\_\_\_

**AGENT / POINT OF CONTACT:**

Name: \_\_\_\_\_

Mailing Address: \_\_\_\_\_

Email Address: \_\_\_\_\_

Phone: \_\_\_\_\_ Alt Phone: \_\_\_\_\_

**B. PROJECT DESCRIPTION:**

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**C. PROJECT TIME FRAME:** \_\_\_\_\_ to \_\_\_\_\_

**D. PROJECT LOCATION:**

Water body name: \_\_\_\_\_

[Anadromous stream number:](#) \_\_\_\_\_

Latitude & longitude in decimal degrees: \_\_\_\_\_

Section \_\_\_\_\_ Township \_\_\_\_\_ Range \_\_\_\_\_ Meridian \_\_\_\_\_ USGS Quad \_\_\_\_\_

**E. WATERBODY CHARACTERISTICS:**

Water body width: \_\_\_\_\_ Water body depth: \_\_\_\_\_

Substrate type (Boulder, cobble, gravel, sand, mud): \_\_\_\_\_

Stream gradient: \_\_\_\_\_

**PLEASE COMPLETE THE APPLICABLE SECTIONS BELOW:**

A list of best practices for many commonly authorized activities can be found at our [Habitat Permits Website](#).

**F. IN-WATER WORK:**

Will you place a structure or any fill below [ordinary high water](#)?  Yes  No

Will you remove material from below ordinary high water?  Yes  No

Type and amount: \_\_\_\_\_

Will you alter the bed or banks of the water body?  Yes  No

How? \_\_\_\_\_

Will you use tracked or wheeled equipment below ordinary high water?  Yes  No

What type? \_\_\_\_\_

Will you drive piles below ordinary high water?  Yes  No

How many and what type? \_\_\_\_\_

Pile installation method:  vibratory hammer  impact hammer  drilled

other: \_\_\_\_\_

Will you divert the stream around the work area?  Yes  No

How long will the stream be diverted? \_\_\_\_\_

How will you divert the stream? \_\_\_\_\_

Will you be placing a coffer dam or silt fencing to isolate the work area?  Yes  No

Will you dewater the work area with a pump?  Yes  No

Who will trap fish and remove them from the work area? \_\_\_\_\_

*Capture and relocation of fish will require an [Aquatic Resource Permit](#) from the ADF&G Division of Sport Fish.*

**G. STREAM CROSSINGS:**

What type of vehicles or equipment will cross the stream or lake?

\_\_\_\_\_

How many crossings (one-way) will be required? \_\_\_\_\_

Will you build ice bridges for winter crossing?  Yes  No

**H. WATER WITHDRAWAL:**

Pump intake size (inches): \_\_\_\_\_ Maximum pumping rate (gpm): \_\_\_\_\_

Total daily amount (gal): \_\_\_\_\_ Total seasonal amount (gal): \_\_\_\_\_

*Water withdrawal from fish-bearing waterbodies will require appropriate intake screening to avoid impacts to fish. Screening criteria can vary by location depending on the species of fish and life stages present at the time of withdrawal. Contact the [Habitat Section](#) for more information on intake screens.*

Intake screening specifications (attach photos if available):

\_\_\_\_\_  
\_\_\_\_\_

**Please attach plans, specifications, aerial photographs, site rehabilitation plans, or other information in support of your application. Submit your completed application by postal mail, email, or in person at the appropriate [Habitat Section office](#).**

I certify all information provided in my application and supporting documents is true and complete to the best of my knowledge.

\_\_\_\_\_  
Applicant Signature

\_\_\_\_\_  
Date

# Alaska Department of Fish and Game

## Fish Habitat Permit Application – General Waterway/Waterbody

### Attachment A – Additional Information

#### **Step B: Type and Purpose of Project**

##### **PROPOSED PROJECT**

The Manokotak Road Rehabilitation Project will involve the rehabilitation of six (6) roads (0.9 total miles), the installation of new drainage features, and the construction of four on-street parking stalls and ramps along Third Street constructed with retaining walls and guardrails. Road improvements will include the placement of a woven geotextile material to stabilize all subgrades, placement of new fill material to establish proper road embankments, followed by the placement of a crushed aggregate surface course to widen and enhance the traveling surface.

The proposed drainage features include the placement of new appropriately sized culverts along existing roadways, replacement of existing failed culverts, the construction of roadside ditches along all streets, and the installation of rock-filled drainage channels with perforated pipe. The drainage channels will run between lots, perpendicular to First, Second, and Third Street. The new storm drainage features will improve drainage patterns and ensure water conveyance away from residential housing. Additionally, the proposed improvements will prevent ponding in existing roadways, which leads to erosion/rutting, washouts, and health concerns.

The roadway alignments, typical sections, and locations of drainage channels, culverts, and parking stalls are shown on the attached figures.

The proposed project will include the following route-specific improvements (See Figures):

- First Street (Route 1006-10) – First Street, from Salmon Street to Alder Street, will have a 15-foot wide traveling surface. An approximately 18-inch deep ditch will be constructed on the east side of the road.
  - Length – Approximately 820-ft.
- Second Street (Route 1007-10) – Second Street, from Salmon Street to C Street, will have a 15-foot wide traveling surface. An 18-inch deep ditch will be constructed on the east side of the road.
  - Length – Approximately 1,390-ft.
- Third Street (Route 1008-10) - Third Street, from Salmon Street to C Street, will have a 12-foot wide traveling surface. An 18-inch deep ditch will be constructed on the east side of the road, and four on-street parking areas will be constructed along the west side. The on-street parking areas will also include ramps to access residential properties (See Figure 5).
  - Length – Approximately 1,410-ft.

- Salmon Street (Route 1014-10) – Salmon Street, from First Street to Third Street, will have a 15-foot wide traveling surface. A 6-inch deep ditch will be constructed on the north side of the road.
  - Length – Approximately 470-ft.
- Alder Street (Route 1010-10) – Alder Street, from First Street to Third Street, will have a 15-foot wide traveling surface. An 18-inch deep ditch will be constructed on the south side of the road.
  - Length – Approximately 470-ft.
- C Street (Route 1012-10) – C Street, from Second Street to Third Street, will have a 15-foot wide traveling surface. An 18-inch deep ditch will be constructed on the south side of the road.
  - Length – Approximately 230-ft.

#### **PURPOSE AND NEED**

The existing Manokotak road infrastructure is deteriorating due to a lack of proper storm drainage and inferior roadside ditching unable to convey surface water to existing culverts. The proposed rehabilitation project will establish proper road embankments, create roadside ditching improve the storm drainage system, install new culverts at engineered locations, and install new drainage channels interconnecting First, Second, and Third Streets (See Figure 2). Additionally, the streets are very narrow, constricted by the existing 20-foot right-of-way, and parked cars along the shoulders create heavy congestion, especially along Third Street. The establishment of parking areas, proper road embankments, improved storm drainage systems, and appropriate street/stop signage will create safer traveling conditions for residents and enhance the overall road infrastructure in Manokotak.

## **Step F: Site Rehabilitation / Restoration Plan**

The following precautions and construction activities will be taken to ensure that fish and other aquatic organisms are protected from adverse impacts:

- A Temporary Water Use Permit will be acquired from the Alaska Department of Natural Resources (ADNR)-Division of Mining, Land and Water (MLW) for fresh water withdrawal from the Igushik River for compaction and dust suppression.
- The pump hose used to withdraw water from the Igushik River will be fitted with an appropriately sized fish screen.
- The installation of culverts, road-side ditches, and drainage channels will help mitigate flooding, erosion, and other storm water issues along the project corridor.
- Best Management Practices (BMPs) from the yet-to-be-determined project contractor will be used to maintain State Water Quality Standards in the event of a spill or other incident.

The project will not disturb more than one acre of undisturbed land. No channel or bank alterations of the Igushik River will occur as part of this project. There is no wastewater discharge associated with the proposed project. The project does not contain any waters of the US and will therefore not impact any wetlands habitat. The proposed action will not result in excessive levels of organic materials, inorganic nutrients, or heat, and is not anticipated to cause an adverse impact on essential fish habitat.

**Alaska Department of Fish and Game**  
**Fish Habitat Permit Application – General Waterway/Waterbody**

Attachment B – Figures

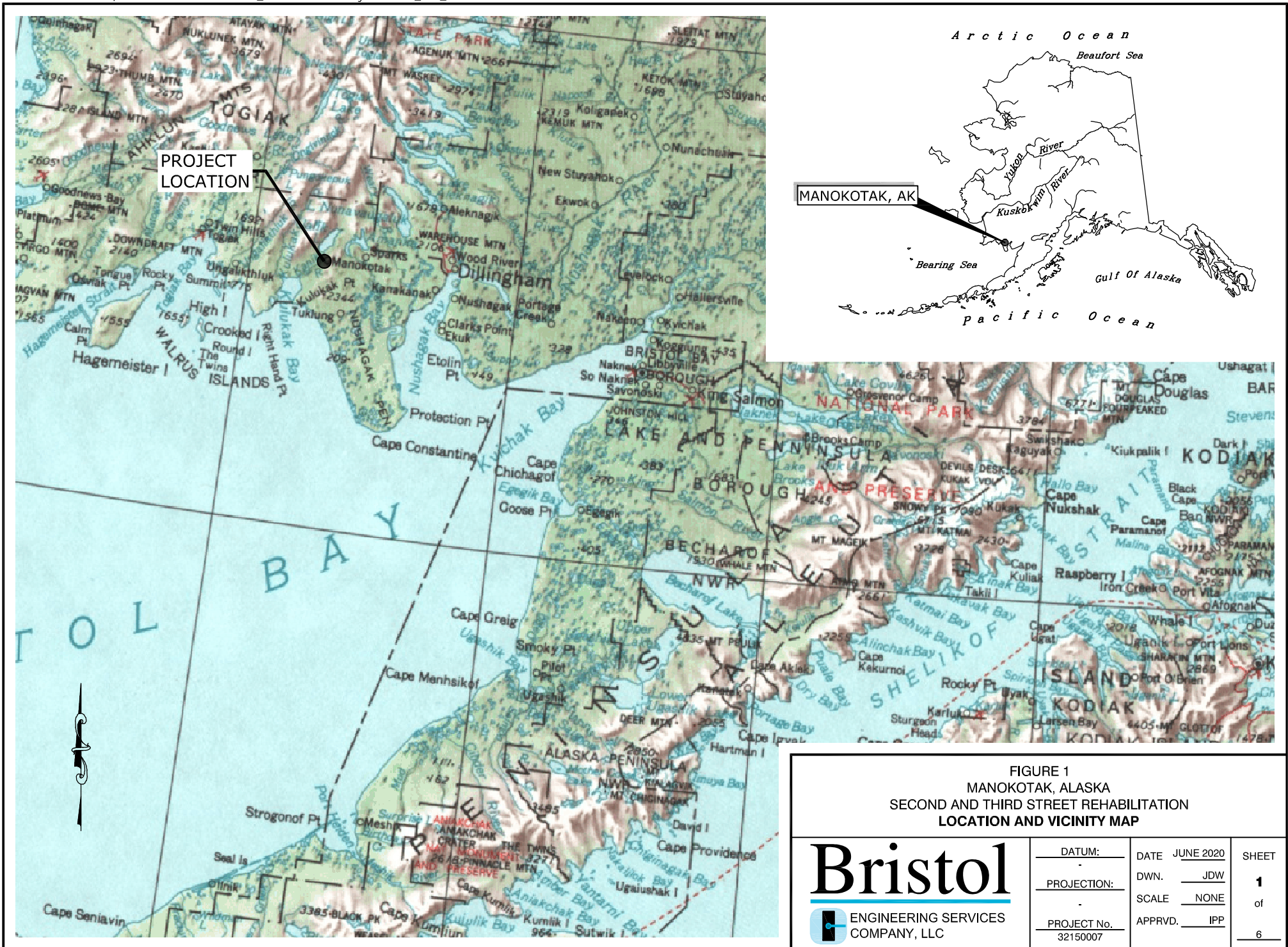
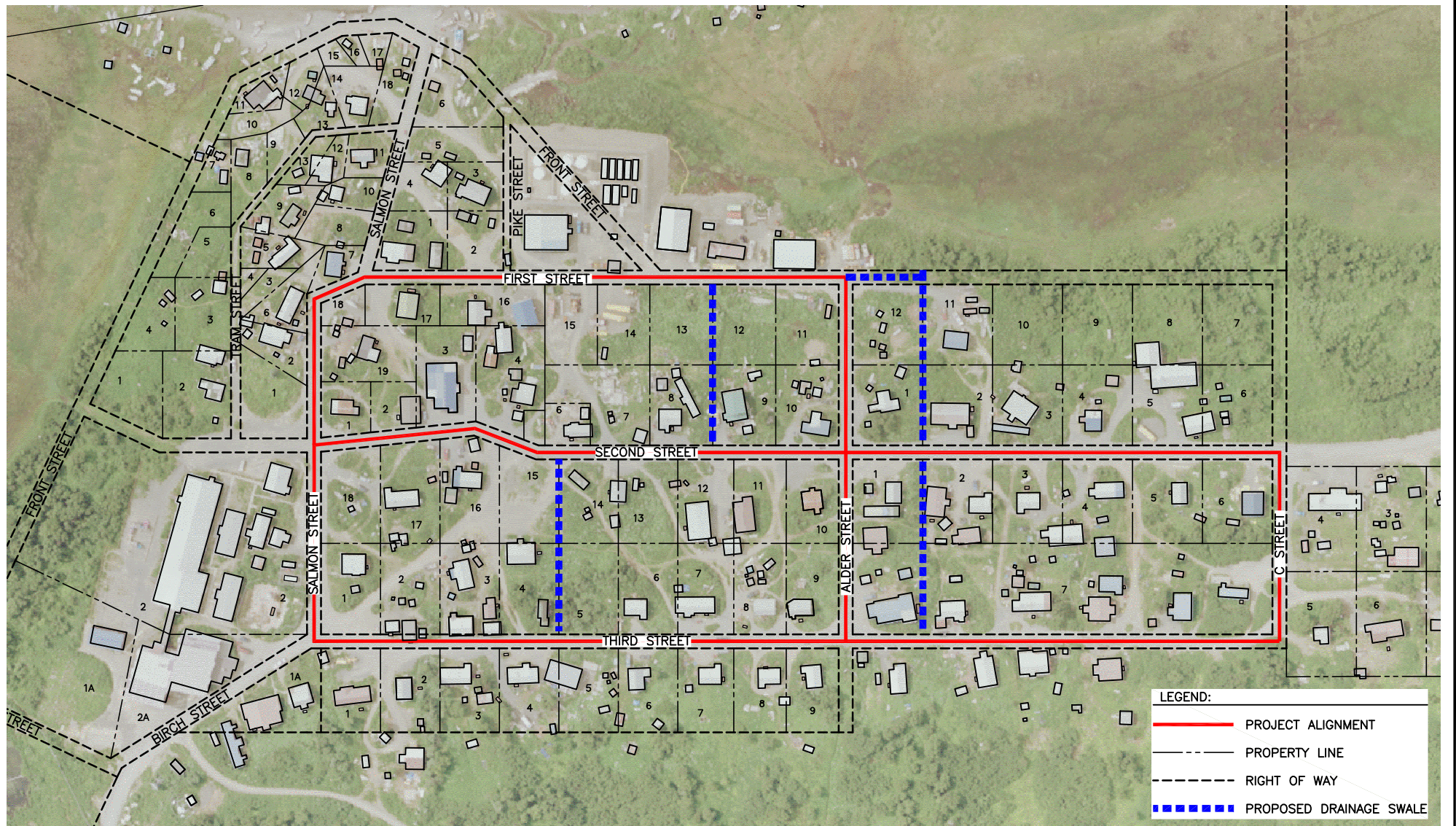


FIGURE 1  
 MANOKOTAK, ALASKA  
 SECOND AND THIRD STREET REHABILITATION  
 LOCATION AND VICINITY MAP

**Bristol**  
 ENGINEERING SERVICES  
 COMPANY, LLC

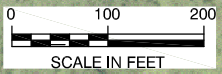
DATUM:	DATE	JUNE 2020	SHEET
PROJECTION:	DWN.	JDW	<b>1</b>
PROJECT No.	SCALE	NONE	of
32150007	APPRVD.	IPP	6





**LEGEND:**

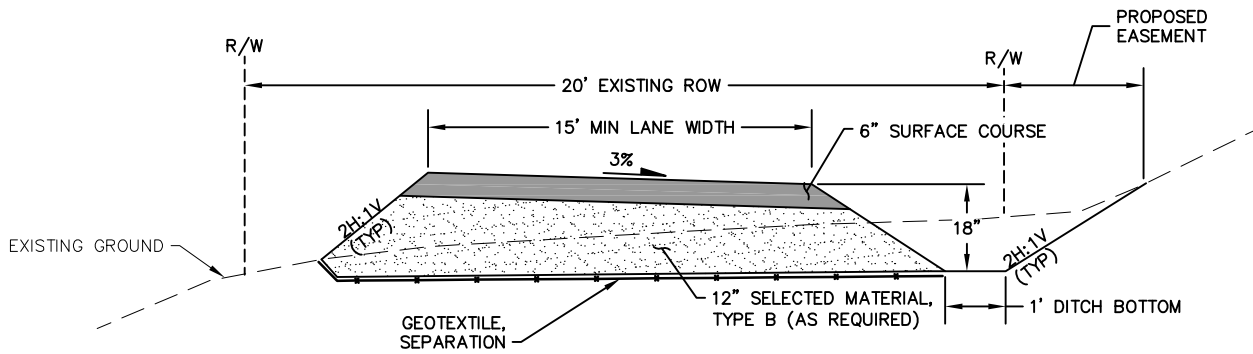
	PROJECT ALIGNMENT
	PROPERTY LINE
	RIGHT OF WAY
	PROPOSED DRAINAGE SWALE



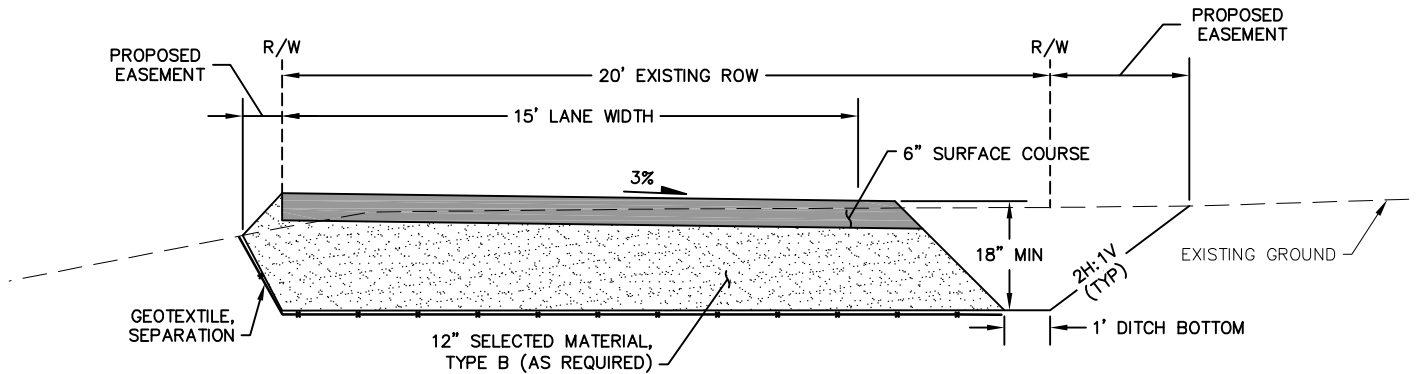
**FIGURE 2**  
**MANOKOTAK, ALASKA**  
**SECOND AND THIRD STREET REHABILITATION**  
**SITE PLAN**

**Bristol**  
 ENGINEERING SERVICES  
 COMPANY, LLC

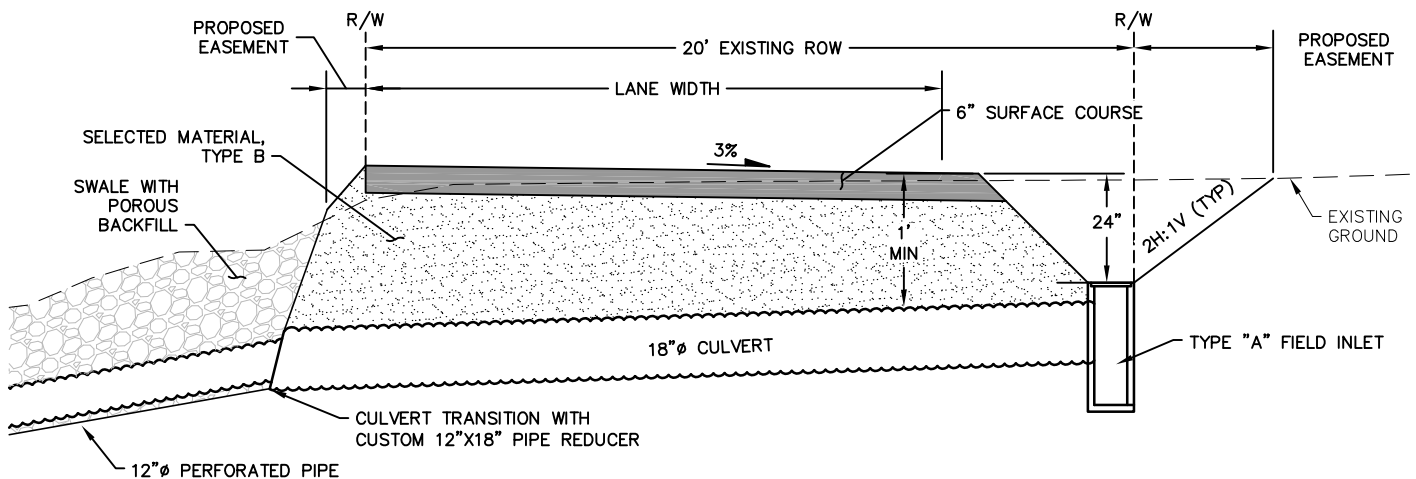
DATUM: -	DATE <u>JUNE 2020</u>	SHEET
PROJECTION: -	DWN. <u>JDW</u>	<b>2</b>
PROJECT No. 32150007	SCALE <u>SHOWN</u>	of
	APPRVD. <u>IPP</u>	6



**(A) TYPICAL ROAD SECTION - THIRD STREET**  
SCALE: NTS



**(B) TYPICAL ROAD SECTION - ALL OTHER ROADS**  
SCALE: NTS



**(C) TYPICAL CULVERT SECTION**  
SCALE: NTS

FIGURE 3  
MANOKOTAK, ALASKA  
SECOND AND THIRD STREET REHABILITATION PROJECT  
TYPICAL SECTIONS



DATUM:	DATE	JUNE 2020	SHEET
PROJECTION:	DWN.	JDW	<b>3</b>
PROJECT No.	SCALE	SHOWN	of
32150007	APPRVD.	IPP	6

Drawing: K:\JOBS\32150007\_KMO\_REHAB\ACAD-DESIGN\DESIGN\_STUDY\_REPORT\_FINAL\32150007\_DSR\_FIG\_4.DWG -- Layout: FIG4  
 User: JWANDER Jun 23, 2020 -- 11:22am Xrefs: BR\_85X11P.DWG -- Images: FINAL\LOGO.PNG

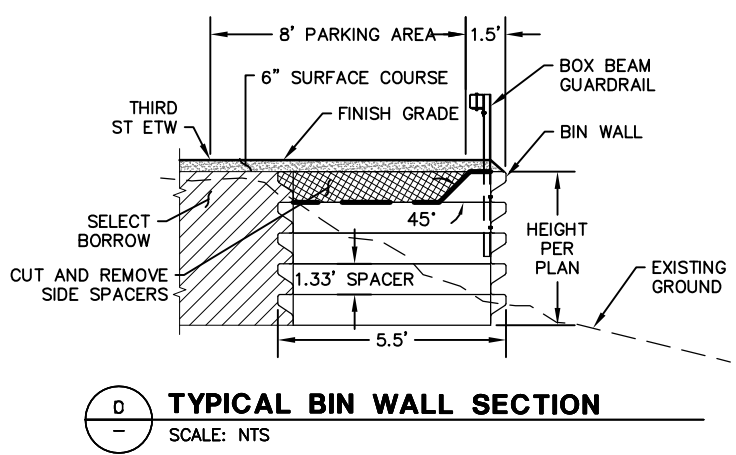
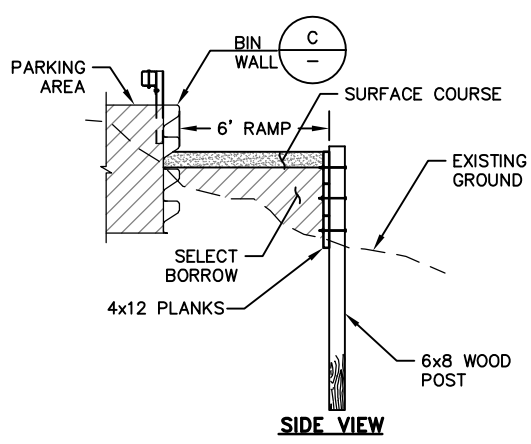
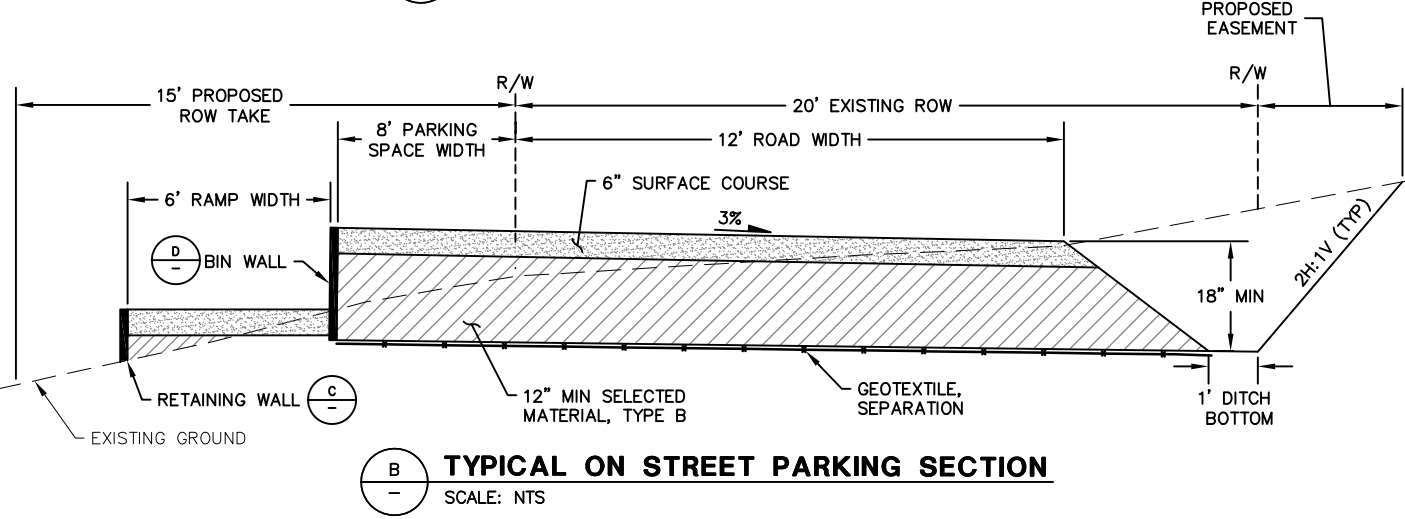
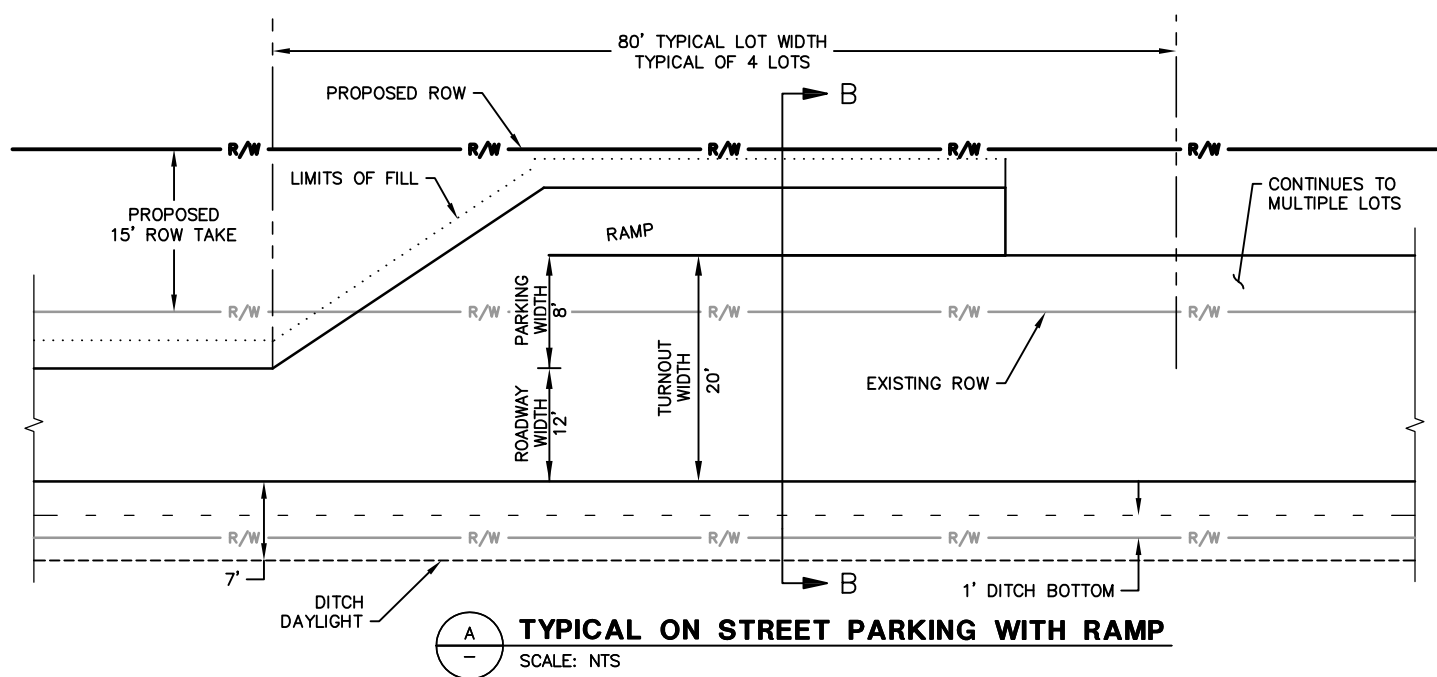
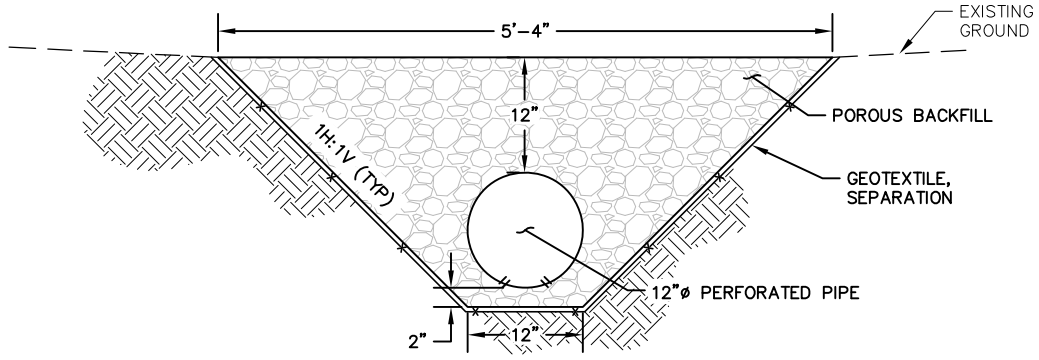
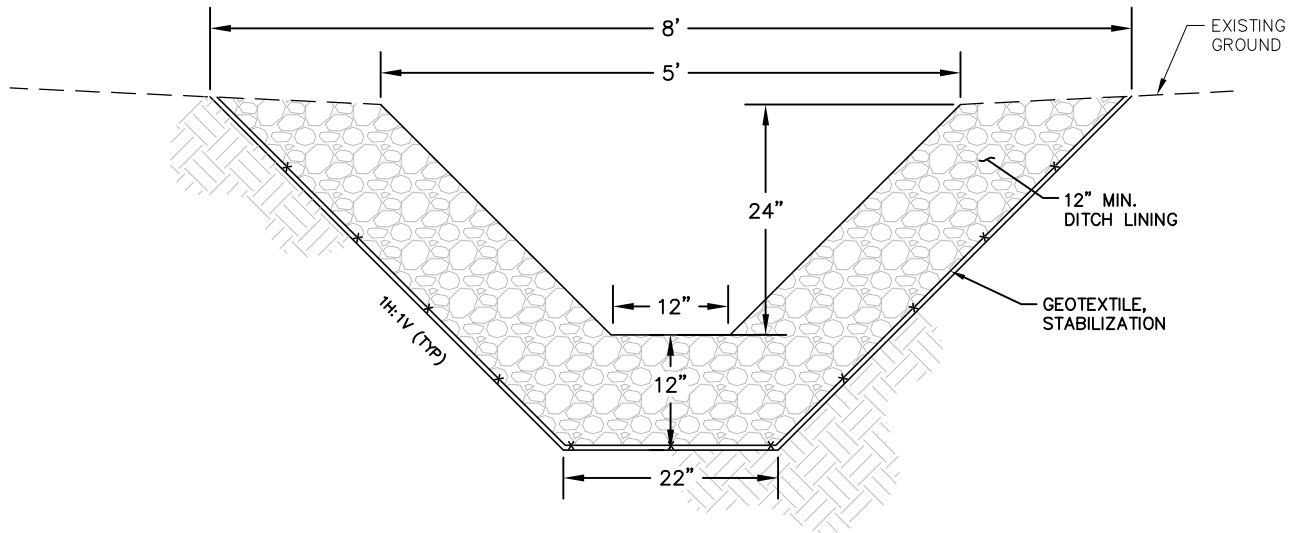


FIGURE 4  
 MANOKOTAK, ALASKA  
 SECOND AND THIRD STREET REHABILITATION PROJECT  
 ON-STREET PARKING DETAILS

	DATUM:	DATE	JUNE 2020	SHEET	
	PROJECTION:	DWN.	JDW		4
	PROJECT No.	SCALE	SHOWN		of
	32150007	APPRVD.	IPP		6



**A** **TYPICAL SWALE TRENCH SECTION WITH PIPE**  
SCALE: NTS



**B** **TYPICAL OPEN CHANNEL SWALE SECTION**  
SCALE: NTS

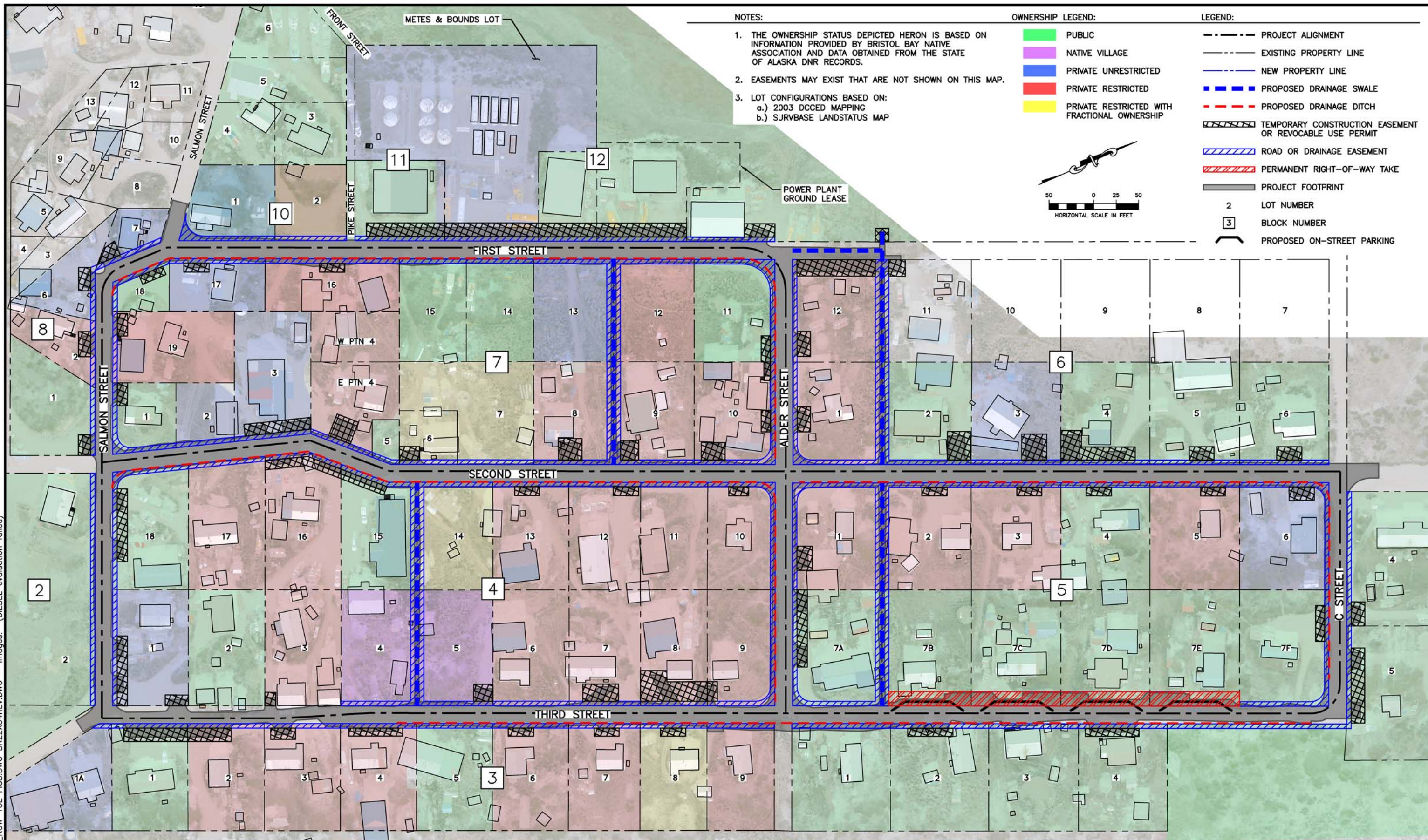
FIGURE 5  
MANOKOTAK, ALASKA  
SECOND AND THIRD STREET REHABILITATION PROJECT  
TYPICAL SWALE SECTIONS

**Bristol**

ENGINEERING SERVICES  
COMPANY, LLC

DATUM: -	DATE: JUNE 2020	SHEET
PROJECTION: -	DWN: JDW	<b>5</b>
PROJECT No. 32150007	SCALE: SHOWN	of
	APPRVD: IPP	6

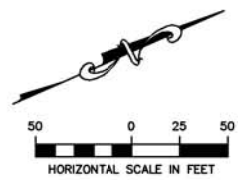
User: JWANDER Jun 23, 2020 - 11:25am  
 Drawing: K:\JOBS\32150007 KMO REHAB\ACAD-DESIGN\DESIGN STUDY REPORT\_FINAL\32150007\_DSR\_FIG\_6.DWG - Layout: FIG 6  
 Xrefs: 32150007\_BASE\_ROW-TCE\_FIGS.DWG BR22X34REV.DWG - Images: (DIESEL evaluation failed)



- NOTES:
1. THE OWNERSHIP STATUS DEPICTED HERON IS BASED ON INFORMATION PROVIDED BY BRISTOL BAY NATIVE ASSOCIATION AND DATA OBTAINED FROM THE STATE OF ALASKA DNR RECORDS.
  2. EASEMENTS MAY EXIST THAT ARE NOT SHOWN ON THIS MAP.
  3. LOT CONFIGURATIONS BASED ON:
    - a.) 2003 DCCED MAPPING
    - b.) SURVBASE LANDSTATUS MAP

- OWNERSHIP LEGEND:
- PUBLIC
  - NATIVE VILLAGE
  - PRIVATE UNRESTRICTED
  - PRIVATE RESTRICTED
  - PRIVATE RESTRICTED WITH FRACTIONAL OWNERSHIP

- LEGEND:
- PROJECT ALIGNMENT
  - EXISTING PROPERTY LINE
  - NEW PROPERTY LINE
  - PROPOSED DRAINAGE SWALE
  - PROPOSED DRAINAGE DITCH
  - TEMPORARY CONSTRUCTION EASEMENT OR REVOCABLE USE PERMIT
  - ROAD OR DRAINAGE EASEMENT
  - PERMANENT RIGHT-OF-WAY TAKE
  - PROJECT FOOTPRINT
  - LOT NUMBER
  - BLOCK NUMBER
  - PROPOSED ON-STREET PARKING



REVISIONS				REVISIONS			
NO.	DATE	BY	DESCRIPTION	NO.	DATE	BY	DESCRIPTION

**Bristol**  
 ENGINEERING SERVICES COMPANY, LLC  
 111 W. 16th Avenue, Third Floor  
 Anchorage, AK 99501  
 Phone (907) 563-0013 Fax (907) 563-6713  
 License Number: AECC697

SECOND AND THIRD STREET REHABILITATION PROJECT  
 MANOKOTAK, ALASKA

TEMPORARY AND PERMANENT  
 RIGHT-OF-WAY ACQUISITION

SCALE: DESIGNED: JDW CHECKED: IPP DRAWN: JDW DATE: JUNE 2020