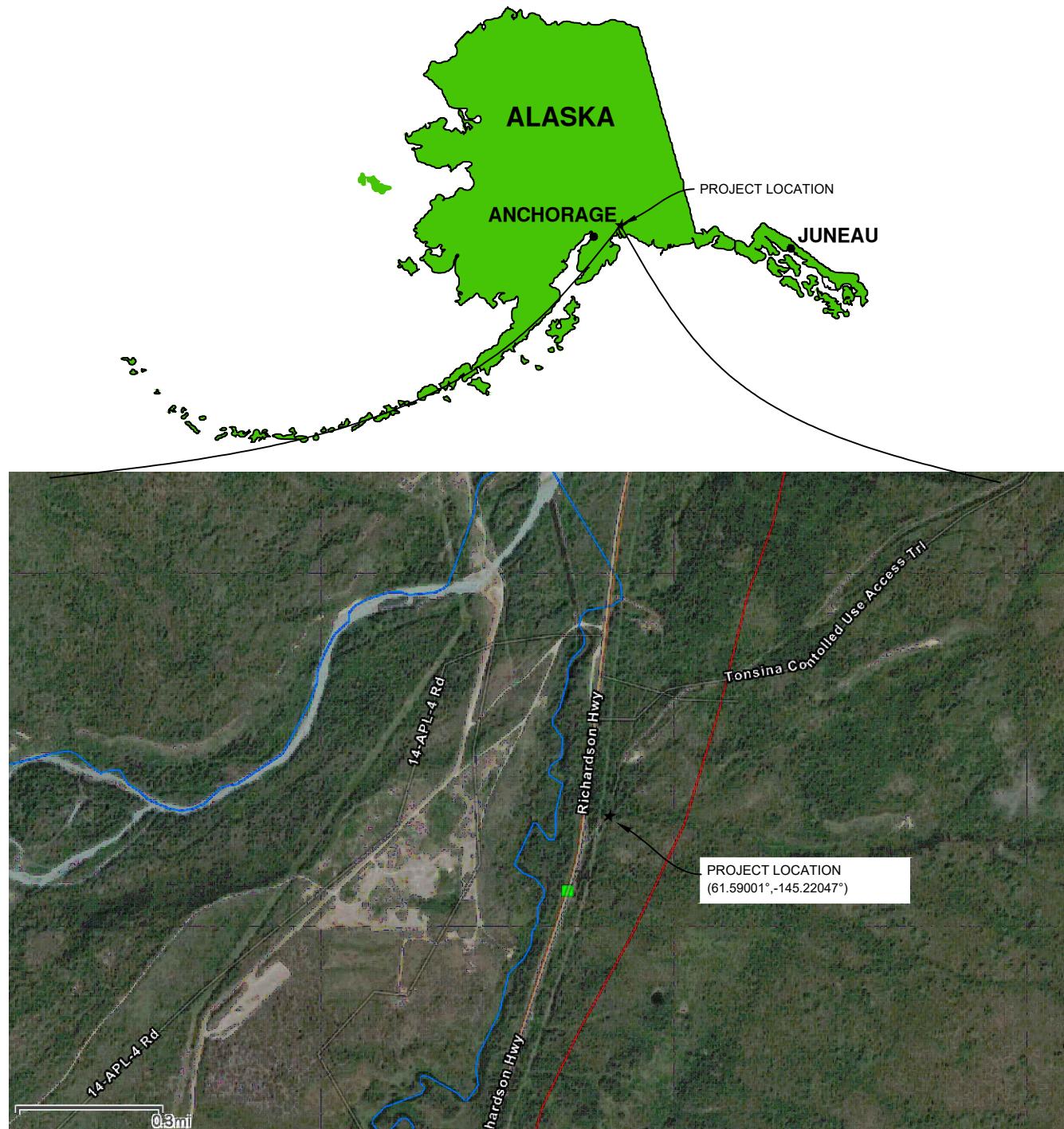


A

B

C

D



VICINITY MAP

LITTLE TONSINA TRIBUTARY- ATV CROSSING FISH PASSAGE IMPROVEMENT PROJECT

DRAWING INDEX	
SHEET NO.	TITLE
G-001	TITLE SHEET
G-002	QUANTITIES & GENERAL NOTES
V-001	SURVEY
C-101	SITE PLAN
C-102	CROSSING PLAN AND PROFILE
C-201	ATV TRAIL PLAN AND PROFILE
C-501	CROSS SECTION DETAILS



U.S. FISH AND WILDLIFE SERVICE
ANCHORAGE CONSERVATION OFFICE
4700 BLM ROAD
ANCHORAGE, AK 99507
907-271-2888

Revision No.	Description	Date	Designed J.STRAUB	Drawn J.STRAUB	Checked K. VALENTINE	Date 2/6/24
Project Partners:	CRWP, BLM					

Project Title:
FP IMPROVEMENT PROJECT
Project Location:
LITTLE TONSINA TRIBUTARY

TITLE SHEET

SHEET NUMBER:
G-001

A

B

C

D

ITEM NO.	DESCRIPTION	UNIT	QUANTITY
201.0009.0000	Clearing and Grubbing	LS	0.07
202.0004.0000	Removal of Culvert Pipe	LF	52
203.0003.0000	Unclassified Excavation	CY	245
TBD	Abutment Material	CY	37
521.TBD	Structure- 48' long by 8' wide ATV Bridge	LS	1
TBD	2'x8' Bridge decking- pressure-treated wood	EA	30
TBD	Stream Substrate	CY	74
611.0001.0002	Riprap, Class II	CY	185
618.0002.000B	Seeding, Type B	LB	5
620.0001.0000	Topsoil	SY	136
640.0001.0000	Mobilization & Demobilization	LS	All Req'd
641.0005.0000	Temporary Erosion and Pollution Control	LS	All Req'd
642.0001.0000	Construction Surveying	LS	All Req'd
690.TBD	Live Willow Staking	LF	280
690.0002.0000	Vegetative Mat Salvage and Replanting	SY	94
690.TBD	Salvaged Vegetation and Slash	SY	529
690.TBD	Rootwads	LF	20
691.0001.0000	Stream Diversion and Dewatering	LS	All Req'd

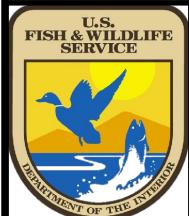
GENERAL NOTES:

1. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE EXACT LOCATION OF ALL SITE FEATURES. IF CONDITIONS OTHER THAN THOSE SHOWN ON THE PLANS ARE ENCOUNTERED, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER.
2. PLANS MAY NOT SHOW ALL EXISTING UTILITIES. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION.
3. EXERCISE EXTREME CAUTION AND OBSERVE ALL APPLICABLE OSHA REQUIREMENTS FOR WORKING IN CONFINED AREAS AND OPEN EXCAVATIONS.
4. EXCAVATION AND BACKFILL: REMOVE ALL ORGANIC OR OVER SATURATED SOFT MATERIAL WHICH CANNOT BE COMPACTION.
5. VERIFY TIE-IN ELEVATIONS OF CHANNEL PRIOR TO CONSTRUCTION. REPORT ANY DISCREPANCIES FROM PLANS IMMEDIATELY TO OWNER'S REPRESENTATIVE.
6. ALL VEGETATION IN AREAS NOT AFFECTED BY WORK SHALL BE PRESERVED AND PROTECTED BY THE CONTRACTOR. RESEED ALL DISTURBED AREAS IN CONFORMANCE WITH REVEGETATION PLAN ON SHEET L-101.
7. ALL DIMENSIONS ARE IN DECIMAL FEET UNLESS NOTED OTHERWISE.

ABBREVIATIONS	
ALBC	ALUMINUM BOX CULVERT
BMP	BEST MANAGEMENT PRACTICE
CFS	CUBIC FEET PER SECOND
CSP	CORRUGATED STEEL PIPE
CY	CUBIC YARDS
E	EASTING
EA	EACH
ELEV	ELEVATION
FT	FEET
GALV	GALVANIZED
IE	INVERT ELEVATION
IN	INCH
LF	LINEAL FEET
LS	LUMP SUM
MIN	MINIMUM
N	NORTHING
NTS	NOT TO SCALE
O.F.	OVER FLOW
OHW	ORDINARY HIGH WATER
PSF	POUNDS PER SQUARE FOOT
Q	FLOW
ROW	RIGHT OF WAY
STA	STATION
SY	SQUARE YARDS
TYP	TYPICAL

LEGEND

 STREAM SUBSTRATE
 VEGETATIVE MAT
 LIMIT OF DISTURBANCE
 PERIMETER CONTROL
 ORDINARY HIGH WATER MARK
 THALWEG
 FINISHED GRADE .5' CONTOUR LINES
 FINISHED GRADE 2.5' CONTOUR LINES
 EXISTING GRADE .5' CONTOUR LINES
 EXISTING GRADE 2.5' CONTOUR LINES



U.S. FISH AND WILDLIFE SERVICE
ANCHORAGE CONSERVATION OFFICE
4700 BLM ROAD
ANCHORAGE, AK 99507
907-271-2888

Revision No.
 Description
 Date
 Designed
 Drawn
 Checked
 Project Partners:
 CRWP, BLM

Project Title:
 FP IMPROVEMENT PROJECTS
 Project Location:
 LITTLE TONSINA TRIBUTARY
 Date
 2/6/24

QUANTITIES AND
NOTES

SHEET NUMBER:
G-002

A

B

C

D

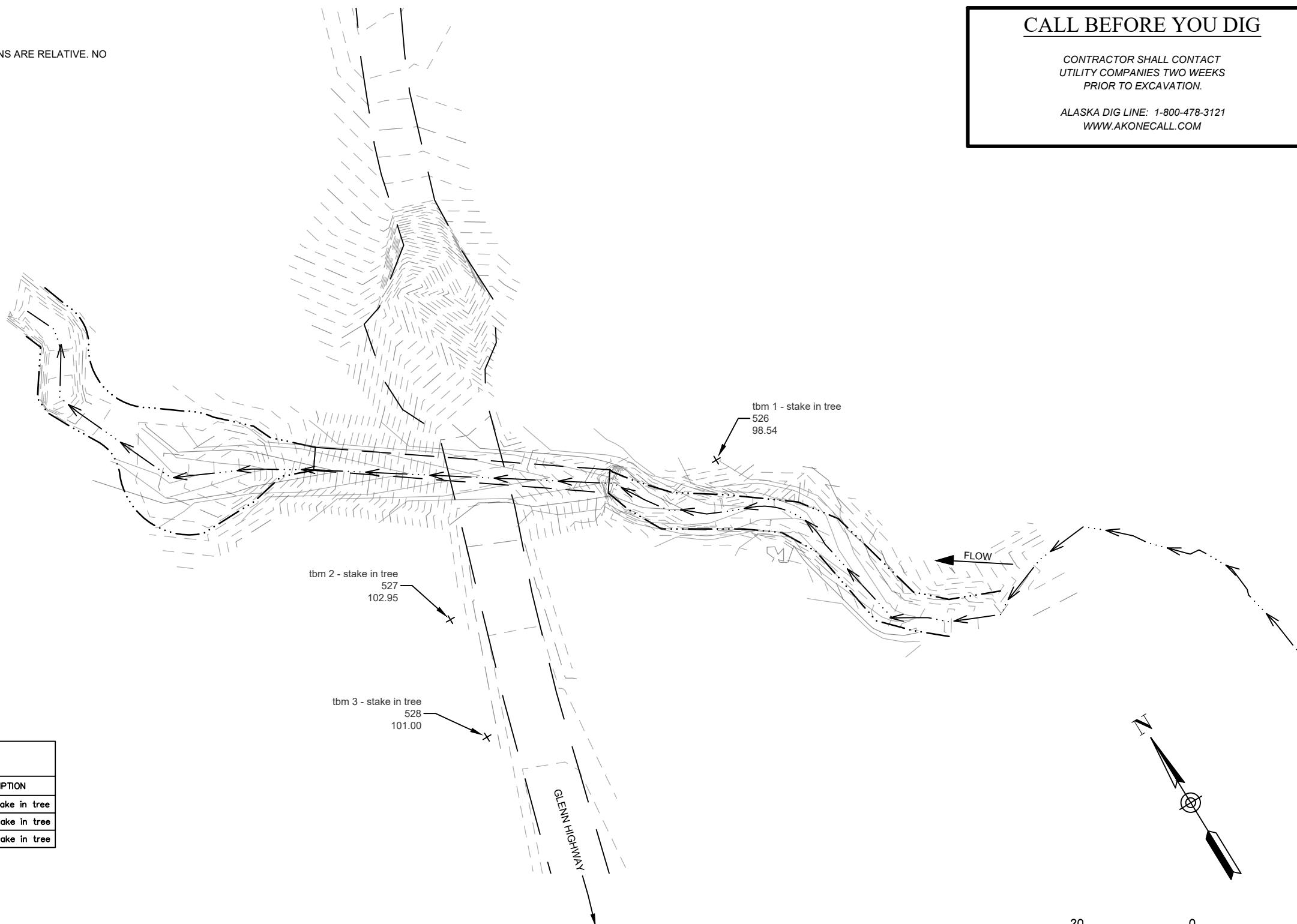
NOTES:

1. FIELD SURVEY IS UNOFFICIAL, UNLICENSED, AND ALL ELEVATIONS ARE RELATIVE. NO BASIS OF COORDINATES OR ELEVATIONS EXISTS.

CALL BEFORE YOU DIG

CONTRACTOR SHALL CONTACT
UTILITY COMPANIES TWO WEEKS
PRIOR TO EXCAVATION.

ALASKA DIG LINE: 1-800-478-3121
WWW.AKONECALL.COM

**PLAN VIEW****POINT TABLE**

POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
526	2773911.829	1776196.035	98.54	tbm 1 - stake in tree
527	2773911.721	1776142.228	102.95	tbm 2 - stake in tree
528	2773890.958	1776137.215	101.00	tbm 3 - stake in tree



U.S. FISH AND WILDLIFE SERVICE
ANCHORAGE CONSERVATION OFFICE
4700 BLM ROAD
ANCHORAGE, AK 99507
907-271-2888

Revision No.	Description	Date	Designed J.STRaub	Drawn J.STRaub	Checked K. VALENTINE	Date 2/6/24

Project Partners:
CRWP, BLM

Project Title: FP IMPROVEMENT PROJECT
Project Location: LITTLE TONSINA TRIBUTARY

SURVEY**V-001**

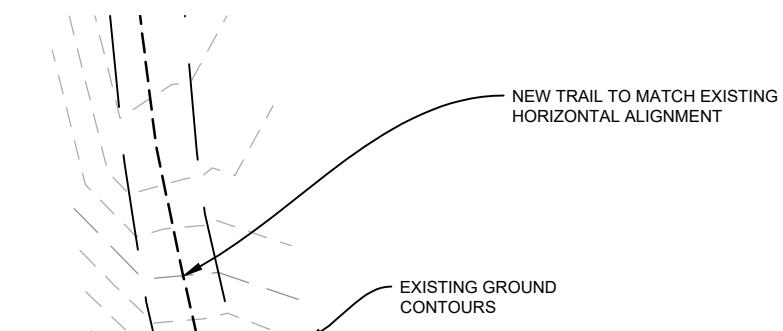
SHEET NUMBER:

A



INLET VIEW, LOOKING DOWNSTREAM

B



NEW TRAIL TO MATCH EXISTING HORIZONTAL ALIGNMENT

EXISTING GROUND CONTOURS

1

C



WASHOUT VIEW, LOOKING UPSTREAM

D



OUTLET VIEW, LOOKING UPSTREAM

OHW MARK

WASHOUT; ALTERNATE BRIDGE LOCATION FOR EVALUATION

ROOTWADS TO STABILIZE BANK AT WASHOUT LOCATION

NEW CHANNEL TO MATCH EXISTING HORIZONTAL ALIGNMENT

OHW MARK

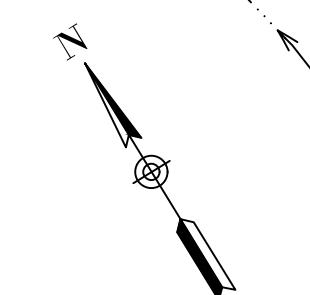
FLOW

REMOVE EXISTING CULVERT

NEW 48' LONG X 8' WIDE ATV BRIDGE

GLENN HIGHWAY

No Bridge, Trail will be rerouted



PLAN VIEW

20 0 20
Scale in feet

U.S. FISH AND WILDLIFE SERVICE
ANCHORAGE CONSERVATION OFFICE
4700 BLM ROAD
ANCHORAGE, AK 99507
907-271-2888

Revision No.	Description	Date	Designed J. STRAUB	Drawn J. STRAUB	Checked K. VALENTINE	Date 2/6/24
Project Partners:	CRWP, BLM					

Project Title:
FP IMPROVEMENT PROJECT
Project Location:
LITTLE TONSINA TRIBUTARY

SITE PLAN

SHEET NUMBER:
C-101

A

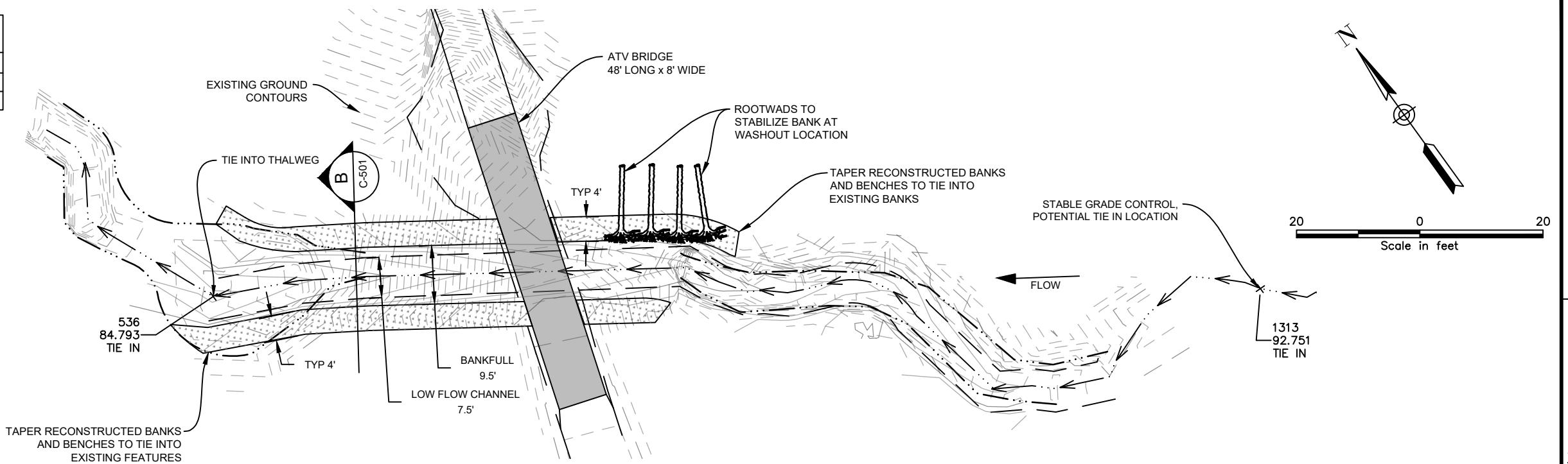
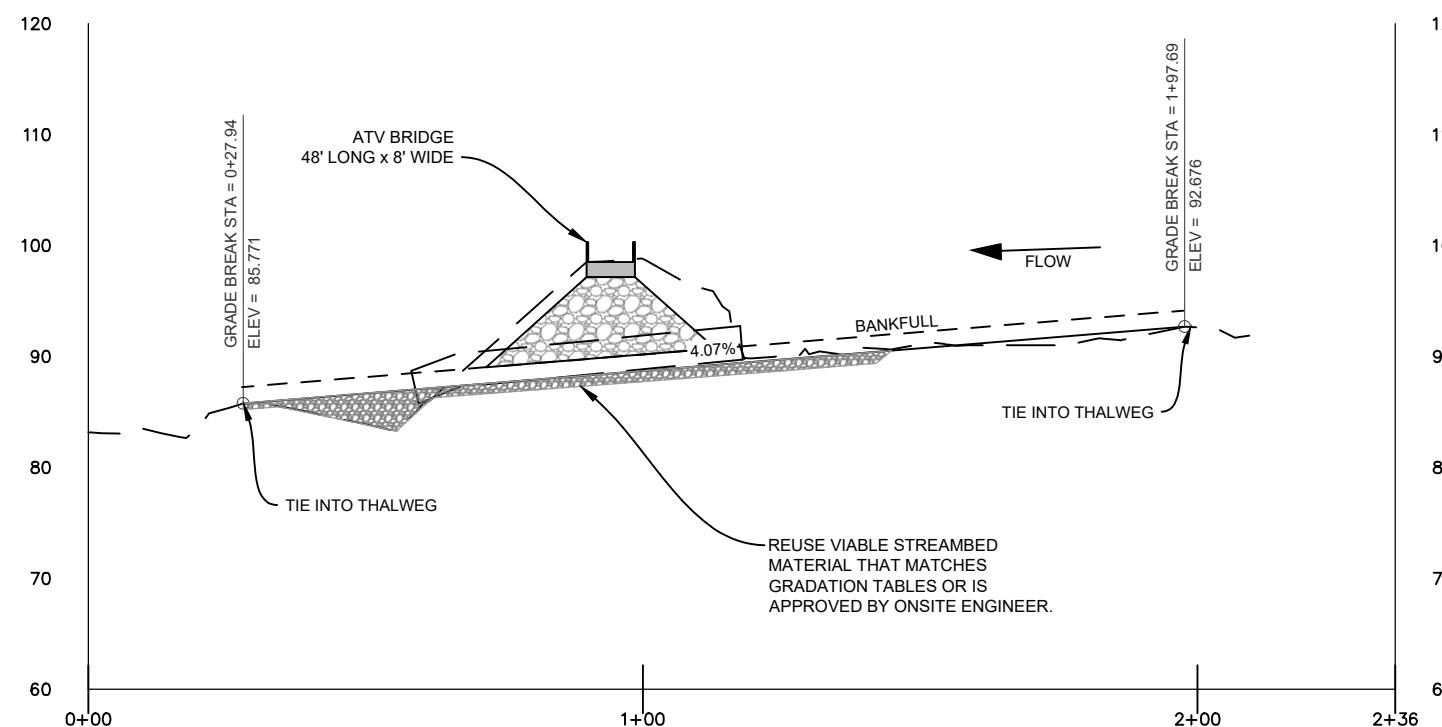
B

C

D

POINT TABLE

POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
536	2773957.719	1776113.254	84.79	TIE IN
1313	2773861.142	1776252.910	92.75	TIE IN

**PLAN VIEW****PROFILE VIEW**

U.S. FISH AND WILDLIFE SERVICE
ANCHORAGE CONSERVATION OFFICE
4700 BLM ROAD
ANCHORAGE, AK 99507
907-271-2888

Revision No.	Description	Date	Designed J. STRAUB	Drawn J. STRAIN	Project Title: FP IMPROVEMENT PROJECT	Project Location: LITTLE TONSINA TRIBUTARY	Sheet Number: C-102
Project Partners:	CRWP, BLM		Checked K. VALENTINE	Date 2/6/24			

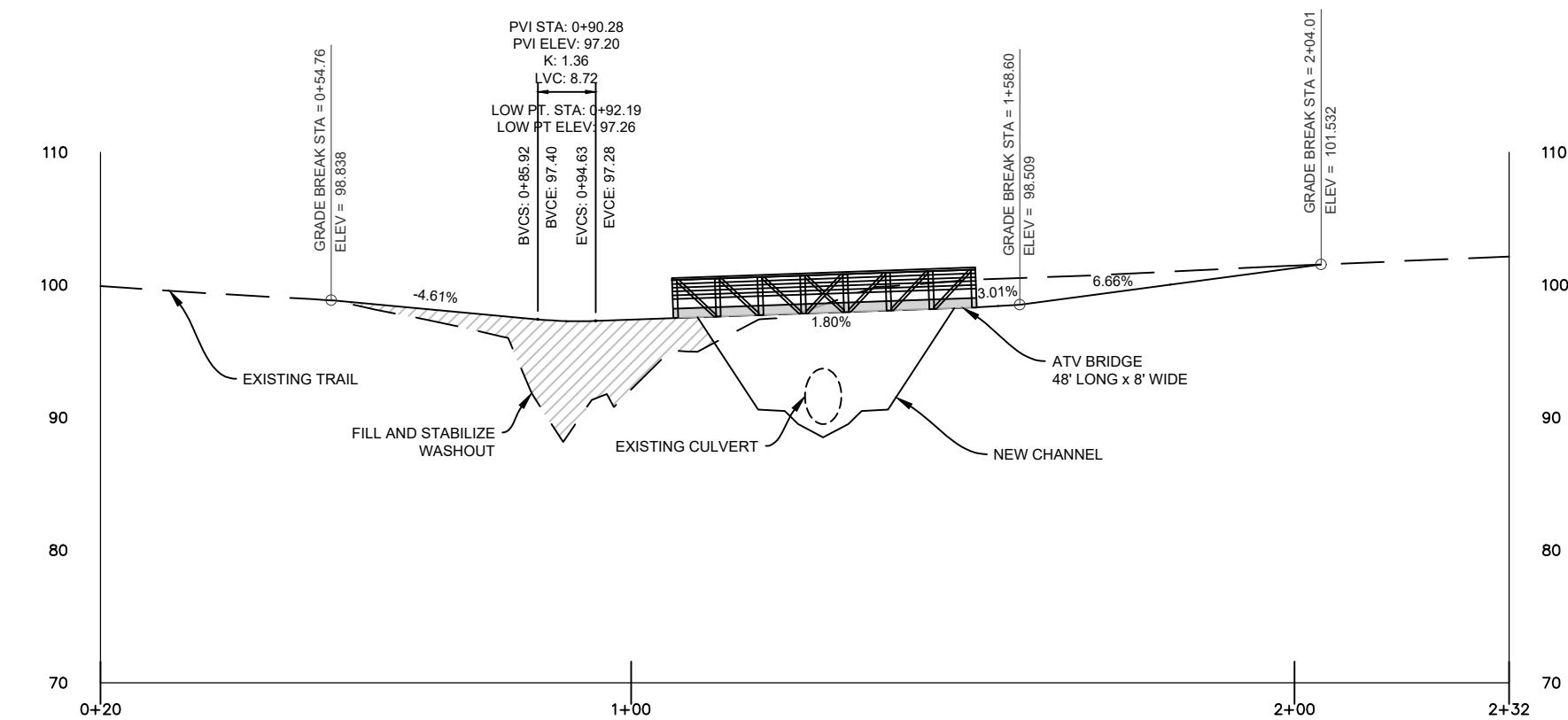
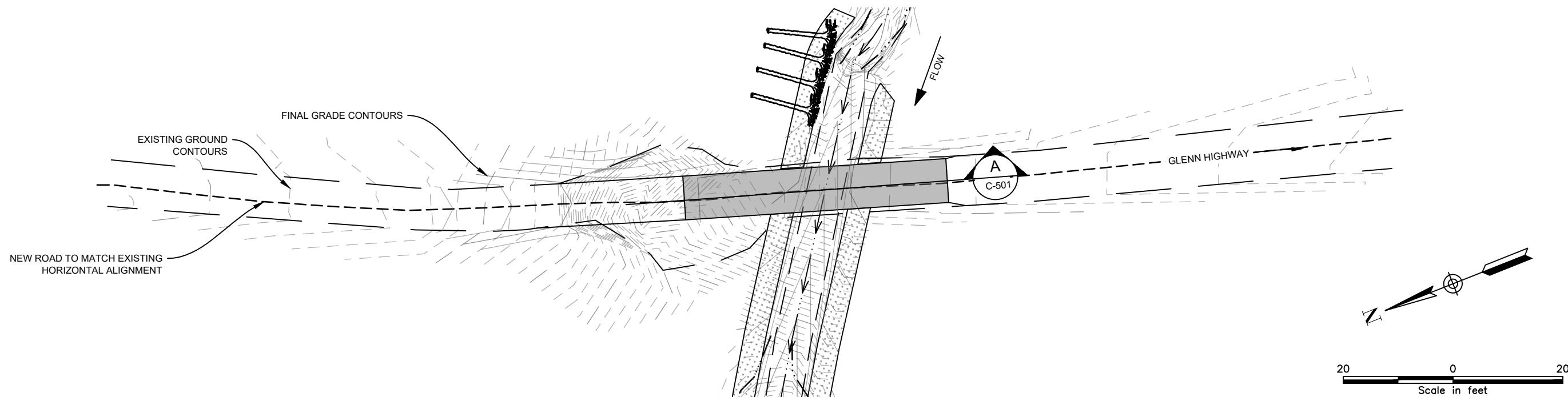
CROSSING PLAN AND PROFILE

A

B

C

D



U.S. FISH AND WILDLIFE SERVICE
ANCHORAGE CONSERVATION OFFICE
4700 BLM ROAD
ANCHORAGE, AK 99507
907-271-2888

Revision No.	Description	Date	Designed J. STRAUB	Drawn J. STRAUB	Checked K. VALENTINE	Date 2/6/24
Project Partners:	CRWP, BLM					

Project Title:
FP IMPROVEMENT PROJECT
Project Location:
LITTLE TONSINA TRIBUTARY

ATV TRAIL PLAN AND
PROFILE

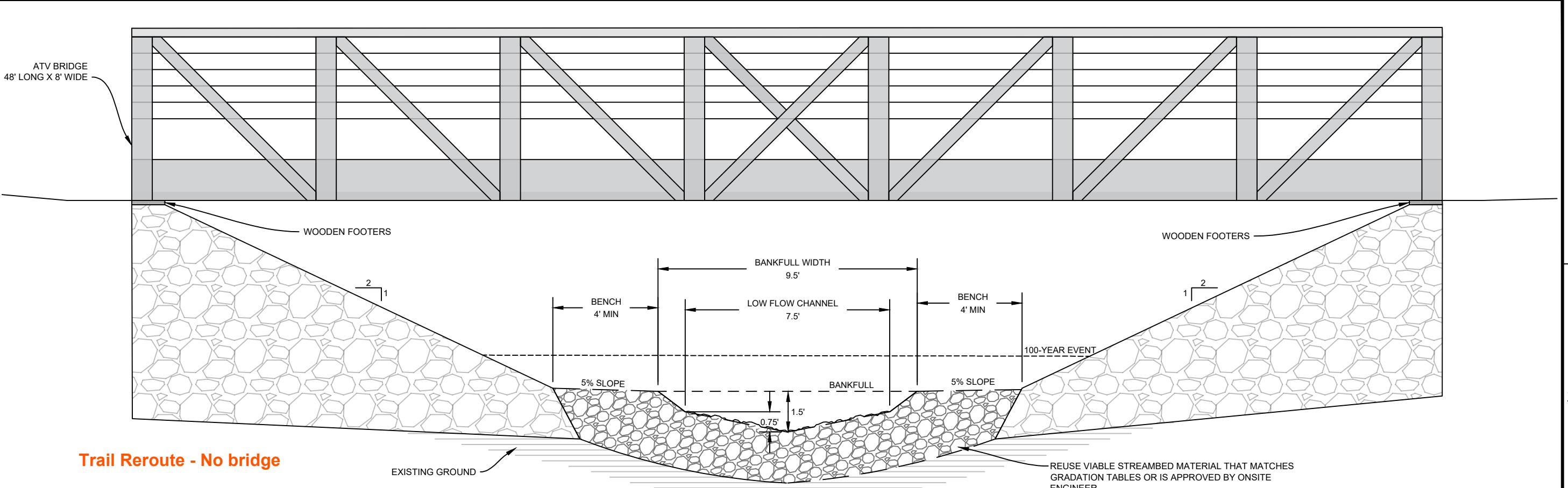
SHEET NUMBER:
C-201

A

B

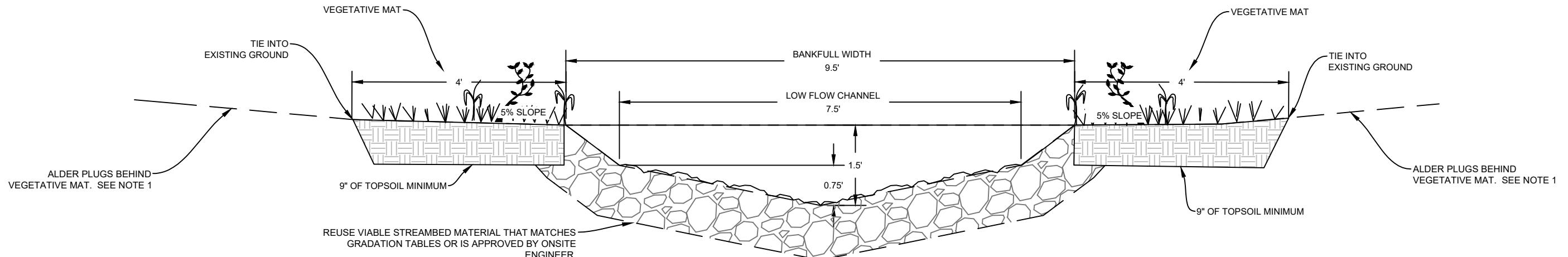
C

D



SECTION A: CROSSING CROSS SECTION VIEW

NOT TO SCALE



SECTION B: CHANNEL CROSS SECTION VIEW

NOT TO SCALE

NOTES:

1. INSTALL IN ACCORDANCE WITH THE ALASKA DEPARTMENT OF FISH AND GAME STREAMBANK RESTORATION GUIDE. <https://www.adfg.alaska.gov/index.cfm?adfg=streambankprotection.main>.



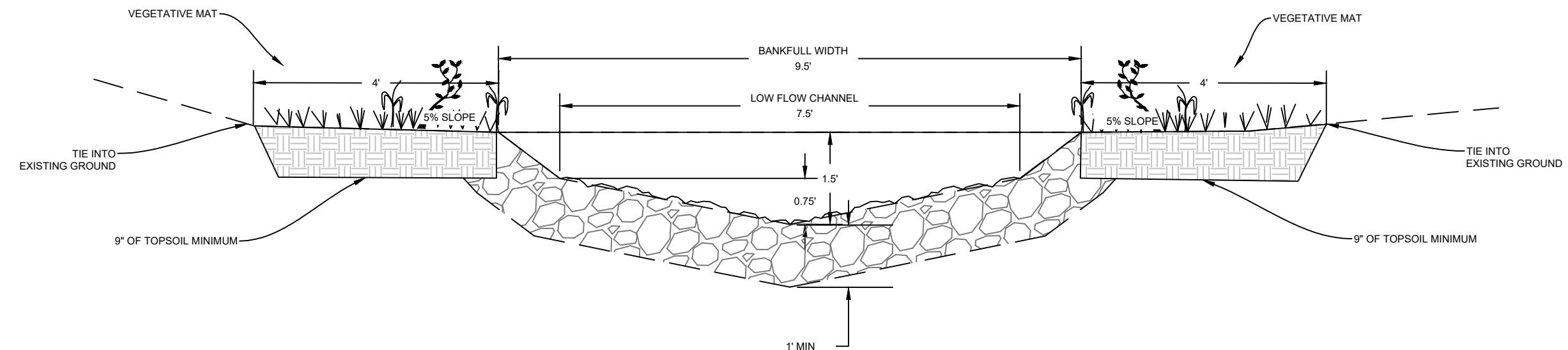
U.S. FISH AND WILDLIFE SERVICE
ANCHORAGE CONSERVATION OFFICE
4700 BLM ROAD
ANCHORAGE, AK 99507
907-271-2888

Revision No.	Description	Date	Designed J.STRAUB	Drawn J.STRAUB	Checked K. VALENTINE	Date 2/6/24
	Project Partners:	CRWP, BLM				

Project Title:
FP IMPROVEMENT PROJECT
Project Location:
LITTLE TONSINA TRIBUTARY

CROSS SECTION DETAILS

SHEET NUMBER:
C-501



SECTION B: CHANNEL CROSS SECTION VIEW

NOT TO SCALE



U.S. FISH AND WILDLIFE SERVICE
ANCHORAGE CONSERVATION OFFICE
4700 BLM ROAD
ANCHORAGE, AK 99507
907-271-2888

Revision No.	Description	Date	Designed J.STRABAU
			Drawn J.STRABAU
			Checked K. VALENTIN
Project Partners:			Date 2/6/24
CRWP, BLM			

E

Project Title:	FP IMPROVEMENT PROJECT
Project Location:	LITTLE TONSINA TRIBUTARY

CHANNEL SECTION AND DETAILS

SHEET NUMBER:
C-502