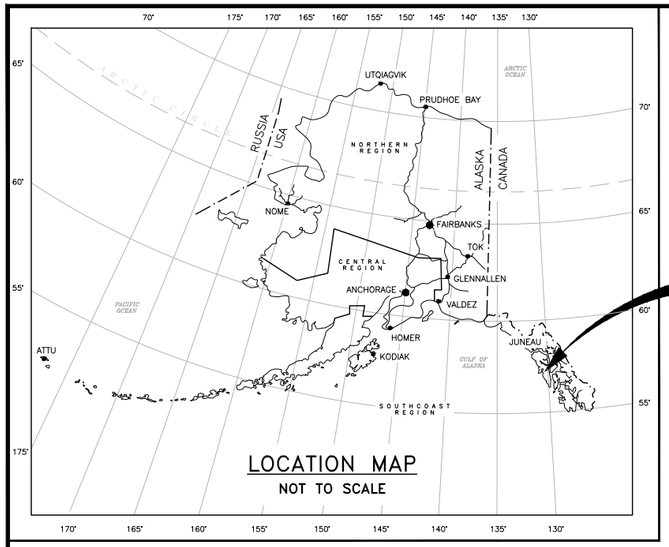


PROJECT LOCATION:
PRINCE OF WALES
ISLAND

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0924021/SFHWY00615	2026	A1	30
CDS ROUTE: 292000	MILEPOINT: 11.534 TO 11.667			

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
&
PUBLIC FACILITIES

PROPOSED HIGHWAY PROJECT

POW THREEMILE CREEK IMPROVEMENTS

PROJECT NO. 0924021/SFHWY00615

GRADING, DRAINAGE, PAVING, & NEW BRIDGE

DESIGN DESIGNATIONS	
PROJECT TYPE	NEW CONSTRUCTION
FUNCTIONAL CLASS	RURAL ARTERIAL
ADT (2023)	600
ADT (2035)	636
DHV (2023)	78
DHV (2035)	82
PERCENT TRUCKS (T)	6.02
DIRECTIONAL SPLIT (D)	54%
DESIGN SPEED (V)	50 MPH
EASLs	150,000

PROJECT SUMMARY	
WIDTH OF THREEMILE CREEK BRIDGE	30'
LENGTH OF THREEMILE CREEK BRIDGE	128'
TOTAL LENGTH OF PROJECT	706'
AREA OF DISTURBANCE	0.3 ACRES

PROJECT LOCATION
CRAIG/KLAWOCK/HOLLIS HIGHWAY

VICINITY MAP

0.25 0 0.25 0.5
GRAPHIC SCALE (MILES)

JOEL OSBURN, P.E., PROJECT MANAGER
THOMAS FAGNANT, DESIGNER

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
&
PUBLIC FACILITIES

APPROVED BY: 50% REVIEW DATE _____

Kirk Miller, P.E.
Preconstruction Engineer, Southcoast Region

ACCEPTED FOR CONSTRUCTION:

_____ DATE _____

Christopher Goins, P.E., C.M.
Regional Director, Southcoast Region

HWYS TITLE SHEET
Q:\Pow\SFHWY00615\RE\Planset\SFHWY00615_A1-A1 Wed, Feb/04/26 05:15pm

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	SFHWY00615 / 0924021	2026	A2	30

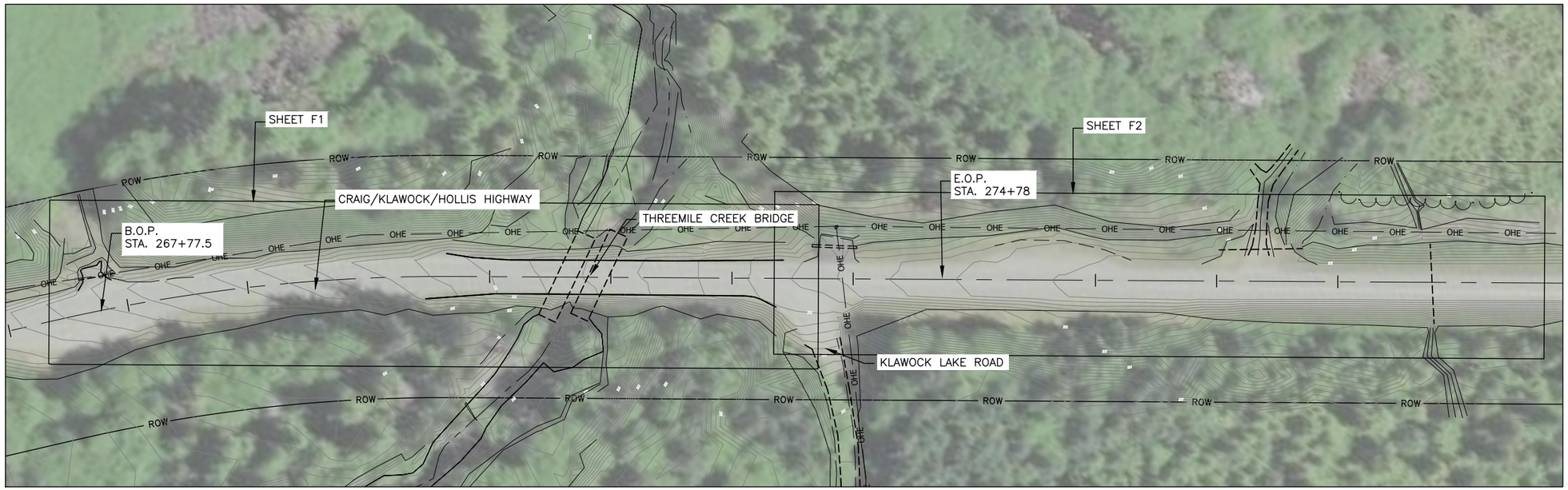
GENERAL NOTES:

1. THIS PROJECT HAS NO SURVEY. INFORMATION CONTAINED IN THESE DOCUMENTS HAS BEEN COMPILED FROM AS-BUILT DRAWINGS.
2. ROW IS FROM AS-BUILT DRAWINGS – AND IS 100-FT OFFSET EITHER SIDE OF CENTERLINE THRU THE PROJECT AREA.
3. CONTAIN ALL CONSTRUCTION WITHIN THE RIGHT-OF-WAY. DO NOT DISPOSE OF EXCESS MATERIAL WITHIN THE RIGHT-OF-WAY, UNLESS SPECIFICALLY CALLED FOR IN THE PLANS.

THE FOLLOWING ALASKA STANDARD PLANS APPLY TO THIS PROJECT:

C-06.00	G-10.21	G-29.01
G-00.05	G-14.01	I-81.00
G-05.11.S	G-20.12	

INDEX OF SHEETS



KEY MAP

50' 0 50' 100'
GRAPHIC SCALE (FT)

SHEET LAYOUT & INDEX

50% REVIEW

PLANS DEVELOPED BY: STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES, SOUTHCOAST REGION, 6860 GLACIER HWY, JUNEAU, AK 99801 (907)465-1763
\\dot\shared\SR_ProjectData\Pow\SFHWY00615\REV\Planset\SFHWY00615_A2-A2 Wed, Feb/04/26 05:15pm

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	SFHWY00615 / 0924021	2026	A3	30

	RECOVERED	SET
BLM MONUMENT	✠	
GLO MONUMENT	✠	
USC&GS MONUMENT	▲	
PRIMARY MONUMENT	✠	✠
CENTERLINE MONUMENT IN CASING	⊕	⊕
PRIMARY R.O.W. MONUMENT	⊕	⊕
BEARING OBJECT	✳	
MISCELLANEOUS MONUMENT	⊗	
LINE OF SIGHT MONUMENT		⊕
CONCRETE R.O.W. MONUMENT	■	
BENCHMARK		BM
REBAR AND CAP	⊙	⊙
REBAR	⊕	●
IRON PIPE	◉	
PK NAIL		▽
SPIKE		×
HUB AND TACK		⊡
CONSTRUCTION CENTERLINE		5+00
MISCELLANEOUS CENTERLINE		10+00
STATION EQUATION		"L"48+97.23 POT BK= "O"48+97.23 PC AHD
PROJECT RIGHT-OF-WAY LINE		R/W
EXISTING RIGHT-OF-WAY LINE		
EXISTING PROPERTY LINE		
CONTROLLED ACCESS LINE		C/A
UTILITY EASEMENT LINE		PUE
TEMPORARY EASEMENT LINE (TCP OR TCE)		TCP
ACCESS OR SECTION LINE EASEMENT		ACCESS EASEMENT
PROPOSED CUT SLOPE LIMIT		
PROPOSED FILL SLOPE LIMIT		
SECTION LINE		
1/4 SECTION LINE		
1/16 SECTION LINE		
TOWNSHIP & RANGE LINE		T. 2 N. / T. 1 N. — T. 1 E. / T. 2 E.

	EXISTING	PROPOSED
SANITARY SEWER (FLOW DIRECTION →)	—→—→—SS—	→→SS—
FUEL LINE	—→—→—O—	→→O—
GAS LINE	—→—→—G—	→→G—
WATER LINE	—→—→—W—	→→W—
METER, VALVE, FIRE HYDRANT	—→—→W—	→→W
EXISTING STORM DRAIN (FLOW DIRECTION →)	—→—→—SD—	
PROPOSED STORM DRAIN		S-10, S-11, P-11, P-10, MH
FIBER OPTIC LINE	———FO———	
DIRECT BURIAL TELEPHONE CABLE	———T———	——T——
DIRECT BURIAL ELECTRIC CABLE	———E———	——E——
ELECTRIC LINE (OVERHEAD)	----------	——
POWER POLE LINE		
JOINT USE POWER & TELEPHONE		
TELEPHONE POLE LINE		
POLE ANCHOR		
STUB POLE (POWER OR TELEPHONE)		
TELEPHONE DUCT	===T===	==T==
TELEPHONE PEDESTAL		
BURIED CABLE MARKER		
PIPELINE MARKER OR VALVE		
CATCH BASIN OR DROP INLET		
MANHOLE	MH	MH
SANITARY SEWER CLEAN OUT		
RIPRAP		
SPECIAL DITCH CENTERLINE		
HIGH TIDE LINE	HTL	HTL

	EXISTING	PROPOSED
ROADWAY/PAVEMENT EDGE		
FENCE	--X---X---X---X--	—X—X—X—X—
CURB AND GUTTER		
DETECTABLE WARNINGS		
GUARDRAIL		
CULVERT PIPE		
SIGN		
MAILBOX	MB	MB
RAILROAD TRACKS		
RAILROAD DEVICES	CROSS-BUCK, FLASHING LIGHT	CANTILEVER, SWITCH
TREE LINE		
WATER BOUNDARY		
ORDINARY HIGH WATER LINE		
FLOW CENTERLINE		
FLOW DIRECTION		
WETLANDS		
EXISTING BUILDINGS	H	H = HOUSE G = GARAGE M = MERCHANT/STORE B = BARN S = SHED P = PRIVY SS= SERVICE STATION W = WAREHOUSE
POST OR BOLLARD		
WELL OR MONITORING WELL	W, MW	
SEPTIC PIPE	S	
FUEL TANK FILL PIPE/VENT	P	
SATELLITE DISH		SAT. DISH
TEST HOLE	TH	
CONIFER TREE		
DECIDUOUS TREE		
GRAVE		
THERMOSIPHON		
PARKING METER		
VEHICLE PLUG-IN		
DELINEATOR/GUIDE MARKER		

	EXISTING	PROPOSED
JUNCTION BOX, TYPE IA		5
JUNCTION BOX, TYPE II		6
JUNCTION BOX, TYPE III		3
SIGNAL FACE, VEHICULAR	42	42
SIGNAL FACE, BACKPLATE	42	42
SIGNAL FACE, LEFT TURN, BACKPLATE	43	43
SIGNAL FACE, PEDESTRIAN		
LOOP DETECTOR	33	73
VIDEO DETECTOR	2	2
RADAR DETECTOR	4	4A
OPTICOM DETECTOR	1	1
PEDESTRIAN PUSH BUTTON	1	1
SIGNAL POST W/O MAST ARM		1
SIGNAL POLE W/MAST ARM		4
SIGNAL CONTROLLER		
LOAD CENTER		
LUMINAIRE		2
RIGID METAL CONDUIT		

ABBREVIATIONS:

ACP	ASPHALT CONCRETE PAVEMENT	TYP	TYPICAL
APPROX	APPROXIMATELY	W	WEST
AST	ASPHALT SURFACE TREATMENT	Ø	DIAMETER
CABC	CRUSHED ASPHALT BASE COURSE		
℄	CENTERLINE		
CY	CUBIC YARD		
E	EAST, EASTING		
ELEV	ELEVATION		
FT '	FOOT, FEET		
IN "	INCH, INCHES		
LT	LEFT		
MAX	MAXIMUM		
MIN	MINIMUM		
N	NORTH, NORTHING		
NO.	NUMBER		
NTS	NOT TO SCALE		
OC	ON CENTER		
PST	PERFORATED STEEL TUBE		
R	RADIUS		
RT	RIGHT		
S	SOUTH		
SQFT	SQUARE FOOT		
STA	STATION		
TCE	TEMPORARY CONSTRUCTION EASEMENT		
TS	TUBE STEEL		

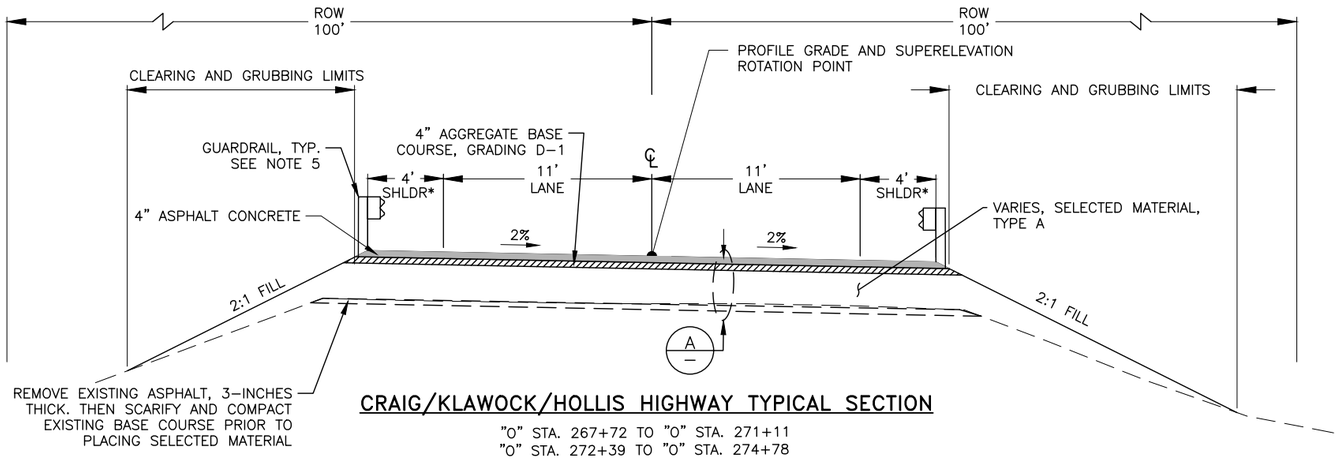
LEGEND

50% REVIEW

PLANS DEVELOPED BY: STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES, SOUTHCOAST REGION, 6860 GLACIER HWY, JUNEAU, AK 99801 (907)465-1763
Q:\Pow\SFHWY00615\RE\Planset\SFHWY00615_A3_LEGEND-A3 Wed, Feb/04/26 05:16pm

NO.	DATE	REVISION

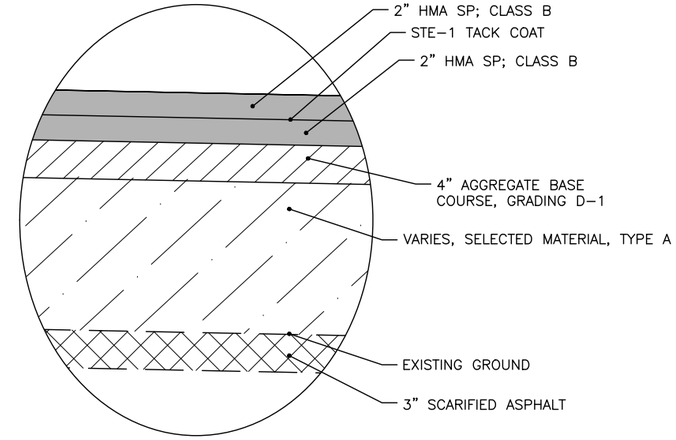
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	SFHWY00615 / 0924021	2026	B1	30



CRAIG/KLAWOCK/HOLLIS HIGHWAY TYPICAL SECTION

"0" STA. 267+72 TO "0" STA. 271+11
"0" STA. 272+39 TO "0" STA. 274+78

*CONSTRUCT A 50-FT TRANSITION FROM 3-FT SHOULDERS TO 4-FT SHOULDERS FROM "0" STA. 269+61 TO 270+11, AND A 50-FT TRANSITION FROM 4-FT SHOULDERS TO 3-FT FROM STA 272+39 TO 272+89.



A — STRUCTURAL SECTION
NEW PAVEMENT

NOTES:

1. CLEARING & GRUBBING LIMITS SHALL BE LOCATED 1' BEYOND TOP/TOE OF SLOPE AS ESTABLISHED BY THE GRADING LIMITS.
2. SEEDING AREA SHALL EXTEND FROM THE EDGE OF ASPHALT TO CLEARING & GRUBBING LIMIT AND SHALL INCLUDE ANY OTHER CONSTRUCTION DISTURBED AREAS OFF THE ROADWAY.
3. SEE "N" SHEET FOR BRIDGE TYPICAL SECTION.
4. REFER TO BRIDGE AND STREAM RESTORATION PLANS FOR DETAILS ON WORK.
5. GUARDRAIL IS LOCATED AT THE EDGES OF CRAIG/KLAWOCK/HOLLIS HIGHWAY NEXT TO THREEMILE CREEK BRIDGE. SEE F-SHEETS FOR LOCATIONS. REFER TO STANDARD PLANS FOR NEW GUARDRAIL.

TYPICAL SECTIONS

50% REVIEW

PLANS DEVELOPED BY: STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES, SOUTHCOAST REGION, 6860 GLACIER HWY, JUNEAU, AK 99801 (907)465-1763
Q:\Pow\SFHWY00615\RE\Planset\SFHWY00615_B_TYPICALS-B1 Wed, Feb/04/26 05:16pm

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	SFHWY00615 / 0924021	2026	C1	30

ESTIMATE OF QUANTITIES - BASIC BID

ITEM NO.	PAY ITEM	PAY UNIT	QUANTITY
201.0003.0000	CLEARING & GRUBBING	ACRE	0.22
201.2001.0000	INVASIVE PLANT SPECIES CONTROL, REMOVAL, AND DISPOSAL	SQUARE YARD	270
202.0002.0000	REMOVAL OF PAVEMENT	SQUARE YARD	1810
202.0018.0000	REMOVAL OF CULVERT PIPE, NO. 7177	LS	ALL REQ'D
203.0003.0000	UNCLASSIFIED EXCAVATION	CY	3650
203.0005.000A	BORROW, TYPE A	CY	1310
205.0006.0000	STRUCTURAL FILL	CY	1200
301.0001.00D1	AGGREGATE BASE COURSE, GRADING D-1	TON	392
303.2000.0000	LINEAR GRADING	STA	23
401.0001.002B	HMA, TYPE II; CLASS B	TON	410
401.0004.5828	ASPHALT BINDER, GRADE PG 58-28E	TON	25
401.0008.002B	HMA PRICE ADJUSTMENT, TYPE II; CLASS B	CS	ALL REQ'D
402.0001.STE1	STE-1 ASPHALT FOR TACK COAT	TON	0.8
501.0001.0000	CLASS A CONCRETE	LS	ALL REQ'D
501.0007.0000	PRECAST CONCRETE MEMBER, 122.5'X54" DECKED BULB-TEE	EACH	6
503.0001.0000	REINFORCING STEEL	LS	ALL REQ'D
503.0002.0000	EPOXY-COATED REINFORCING STEEL	LS	ALL REQ'D
505.0005.0001	FURNISH STRUCTURAL STEEL H PILES, HP 14X117	LINEAR FOOT	400
505.0006.0000	DRIVE STRUCTURAL STEEL H PILES, HP 14X117	EACH	10
507.0001.0003	STEEL BRIDGE RAILING, 3-TUBE	LINEAR FOOT	336
508.0001.0000	WATERPROOFING MEMBRANE, SPRAY-APPLIED	LS	ALL REQ'D
520.0001.0000	TEMPORARY CROSSINGS	LS	ALL REQ'D
606.0001.0000	W-BEAM GUARDRAIL	LINEAR FOOT	224
606.0006.0000	REMOVING AND DISPOSING OF GUARDRAIL	LINEAR FOOT	312
606.0013.0000	PARALLEL GUARDRAIL TERMINAL	EACH	2
606.0016.0000	TRANSITION RAIL	EACH	4
611.0001.0001	RIPRAP, CLASS I	CY	555
611.0001.0003	RIPRAP, CLASS III	CY	2400
615.0001.0000	STANDARD SIGN	SQUARE FEET	15
615.0007.0000	SALVAGE AND DISPOSE SIGN	EACH	2
618.0002.0000	SEEDING	POUND	14
620.0001.0000	TOPSOIL	SY	1050
640.0001.0000	MOBILIZATION & DEMOBILIZATION	LS	ALL REQ'D
640.0004.0000	WORKER MEALS AND LODGING, OR PER DIEM	LS	ALL REQ'D
642.0001.0000	CONSTRUCTION SURVEYING	LS	ALL REQ'D
642.0004.0000	SET PRIMARY MONUMENT	EACH	1
643.0002.0000	TRAFFIC MAINTENANCE	LS	ALL REQ'D
643.0003.0000	PERMANENT CONSTRUCTION SIGNS	LS	ALL REQ'D
643.0025.0000	TRAFFIC CONTROL	CS	ALL REQ'D
644.0001.0000	FIELD OFFICE	LS	ALL REQ'D
644.0006.0000	VEHICLE	LS	ALL REQ'D
644.0015.0000	NUCLEAR TESTING EQUIPMENT STORAGE SHED	EACH	1
644.2004.0000	ENGINEERING COMMUNICATIONS	CS	ALL REQ'D
658.0001.0000	EROSION, SEDIMENT, AND POLLUTION CONTROL WITHOUT CGP COVERAGE	LS	ALL REQ'D
658.0002.0000	ESCP CHANGES BY DIRECTIVE	CS	ALL REQ'D
660.0007.0000	TEMPORARY SIGNAL SYSTEM COMPLETE, CRAIG/KLAWOCK/HOLLIS HIGHWAY	LS	ALL REQ'D
670.0001.0000	PAINTED TRAFFIC MARKINGS	LS	ALL REQ'D

ESTIMATE OF QUANTITIES - ADD. ALT. 1

ITEM NO.	PAY ITEM	PAY UNIT	QUANTITY
201.0003.0000	CLEARING AND GRUBBING	ACRE	1
203.0001.0000	COMMON EXCAVATION	CY	270
203.0005.0000	BORROW	CY	530
621.2009.0000	VEGETATIVE MAT SALVAGE AND REPLANTING	LS	ALL REQ'D
640.0001.0000	MOBILIZATION AND DEMOBILIZATION	LS	ALL REQ'D
640.0004.0000	WORKER MEALS AND LODGING, OR PER DIEM	LS	ALL REQ'D
642.0001.0000	CONSTRUCTION SURVEYING	LS	ALL REQ'D
658.0001.0000	EROSION, SEDIMENT, POLLUTION CONTROL WITHOUT CGP COVERAGE	LS	ALL REQ'D
658.0002.0000	ESCP CHANGES BY DIRECTIVE	CS	ALL REQ'D
671.2003.0000	STREAM SUBSTRATE	TON	5000
671.2005.0000	STREAM DIVERSION AND DEWATERING	LS	ALL REQ'D
671.2010.0000	LARGE WOODY MATERIAL	LS	ALL REQ'D

BASIS OF ESTIMATE

ITEM NO.	ITEM DESCRIPTION	ESTIMATING FACTOR
202.0018.0000	REMOVAL OF CULVERT PIPE, NO. 7177	72 L.F.
301.0001.00D1	AGGREGATE BASE COURSE, GRADING D-1	1.94 TON/C.Y.
402.0001.STE1	STE-1 ASPHALT FOR TACK COAT	0.1 GAL/S.Y. & 240 GAL/TON
408.2004.5828	ASPHALT BINDER, GRADE PG 58-28E	5.8% OF ITEM 401.0001.002B
408.2006.000B	HMA, TYPE II; CLASS B	150 LB/C.F.
501.0001.0000	CLASS A CONCRETE	135 C.Y.
503.0001.0000	REINFORCING STEEL	30,000 LBS
503.0002.0000	EPOXY-COATED REINFORCING STEEL	22,000 LBS
508.0001.0000	WATERPROOFING MEMBRANE, SPRAY APPLIED	5,040 S.F.

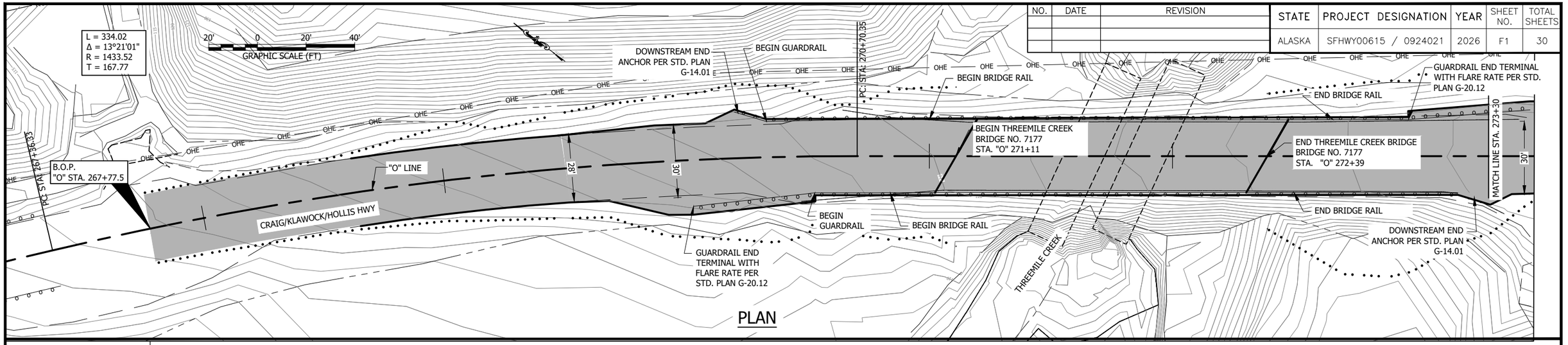
ESTIMATE OF QUANTITIES

50% REVIEW

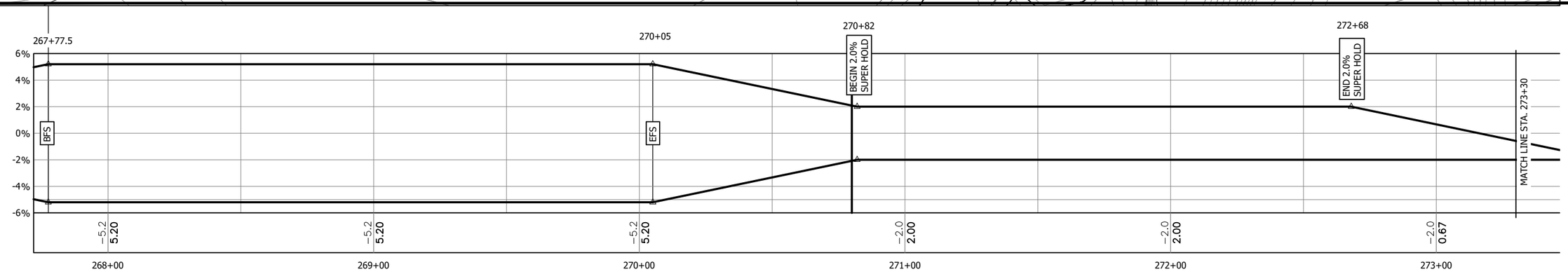
PLANS DEVELOPED BY: STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES, SOUTHCOAST REGION, 6860 GLACIER HWY, JUNEAU, AK 99801 (907)465-1763
Q:\Pow\SFHWY00615\RE\Planset\SFHWY00615_C_ESTIMATE OF QTYS-C1 Thu, Feb/05/26 04:29pm

NO.	DATE	REVISION

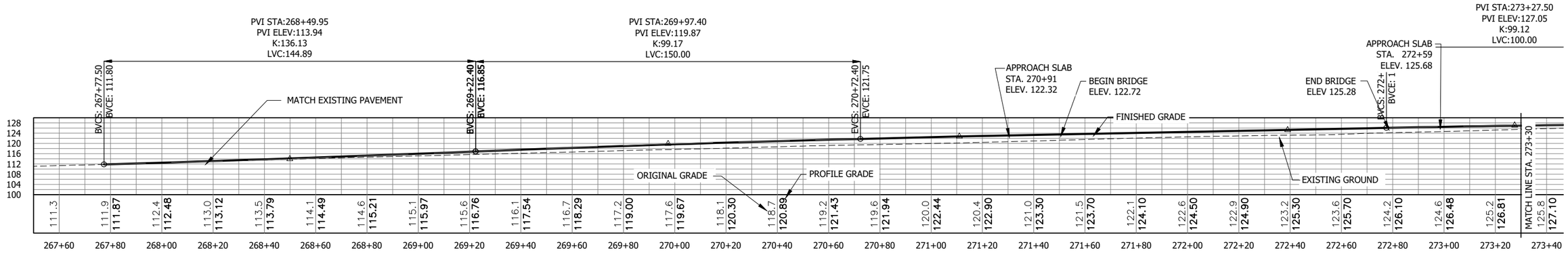
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	SFHWY00615 / 0924021	2026	F1	30



PLAN



SUPERELEVATION



PROFILE

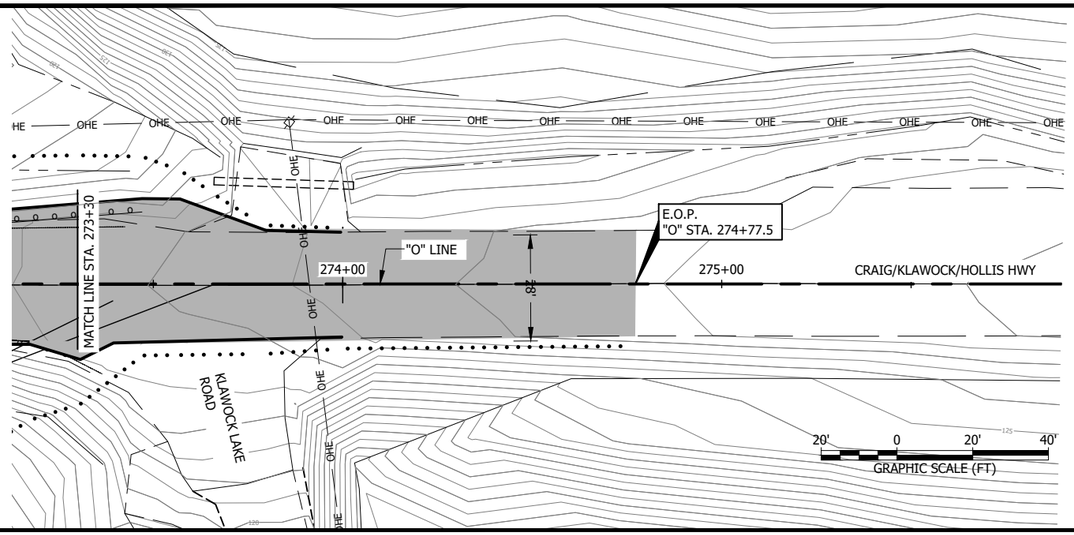
PLAN & PROFILE

50% REVIEW

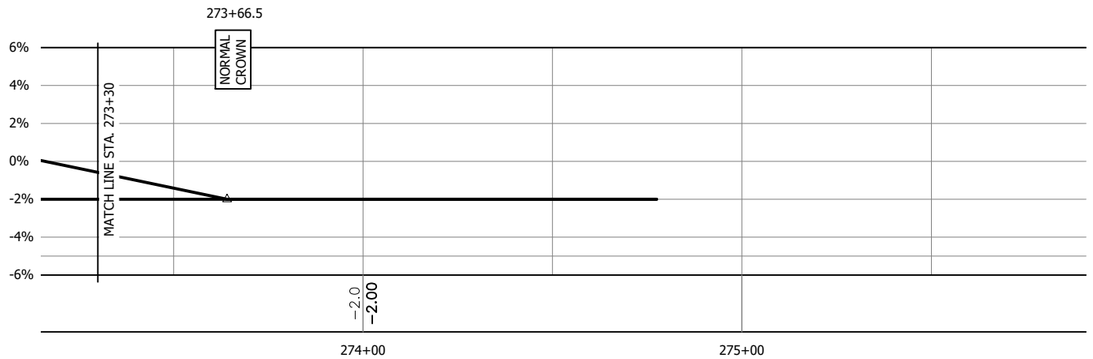
PLANS DEVELOPED BY: STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES, SOUTHCOAST REGION, 6860 GLACIER HWY, JUNEAU, AK 99801 (907)465-1763
\\dot\shared\SR_ProjectData\Pow\SFHWY00615\RE\Planset\SFHWY00615_F1-F1 Wed, Feb/04/26 05:24pm

NO.	DATE	REVISION

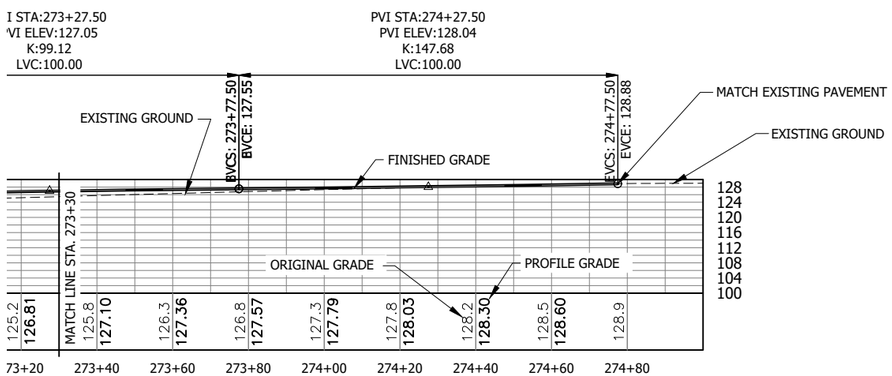
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	SFHWY00615 / 0924021	2026	F2	30



PLAN



SUPERELEVATION



PROFILE

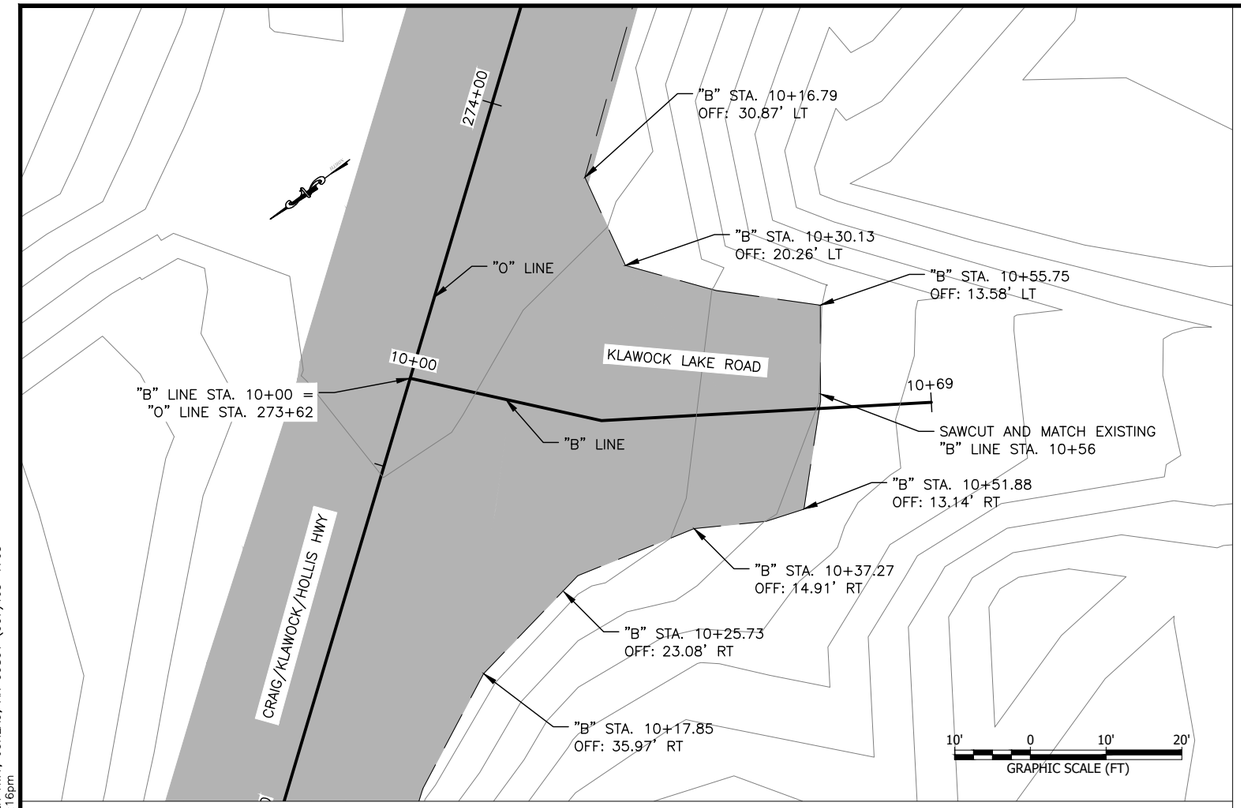
PLAN & PROFILE

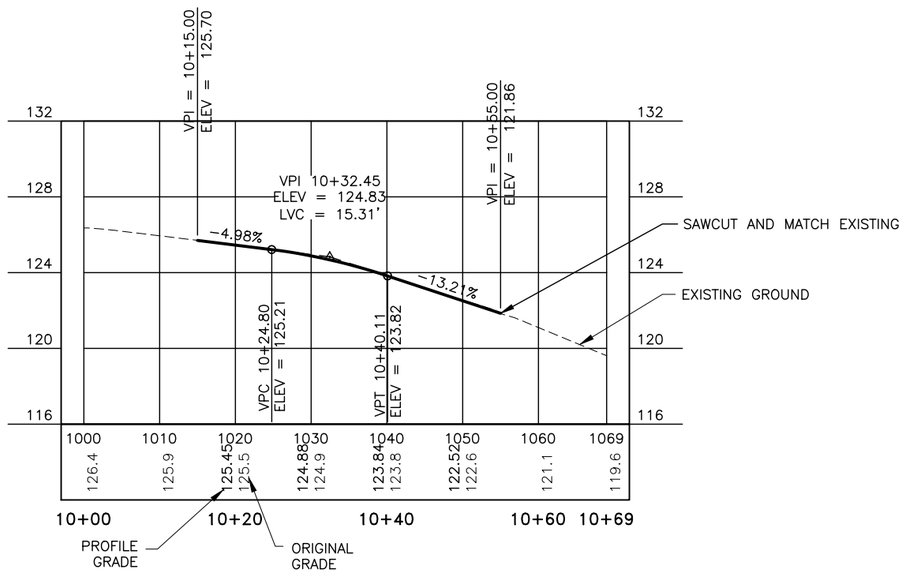
50% REVIEW

PLANS DEVELOPED BY: STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES, SOUTHCOAST REGION, 6860 GLACIER HWY, JUNEAU, AK 99801 (907)465-1763
\\dot\shared\SR_ProjectData\Pow\SFHWY00615\RE\Planset\SFHWY00615_F1_F2 Wed, Feb/04/26 05:16pm

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	SFHWY00615 / 0924021	2026	G1	30





INTERSECTION PLAN & PROFILE

50% REVIEW

PLANS DEVELOPED BY: STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES, SOUTHCOAST REGION, 6860 GLACIER HWY, JUNEAU, AK 99801 (907)465-1763
\\dot\shared\SR_ProjectData\Pow\SFHWY00615\REV\Planset\SFHWY00615_G1-INTERSECTION PLAN & PROFILE Wed, Feb/04/26 05:16pm

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	SFHWY00615 / 0924021	2026	J1	30

CONTRACTOR WILL DESCRIBE ALL BMP'S TO BE USED FOR TEMPORARY CROSSING DURING BRIDGE REPLACEMENT IN THE CONTRACTOR'S ESCP

"O" STA: 273+45 = "T" STA: 14+91
BEGIN TEMPORARY CROSSING
MATCH EXISTING ROAD

BEGIN THREEMILE CREEK
BRIDGE NO. 7177

END THREEMILE CREEK BRIDGE
BRIDGE NO. 7177

"O" LINE

CRAIG/KLAWOCK/HOLLIS HWY

SAWCUT & MATCH EXISTING

"T" LINE

"O" STA: 268+64 = "T" STA: 10+00
BEGIN TEMPORARY CROSSING
MATCH EXISTING ROAD

BEGIN TEMPORARY CROSSING
STA: "T" 12+50

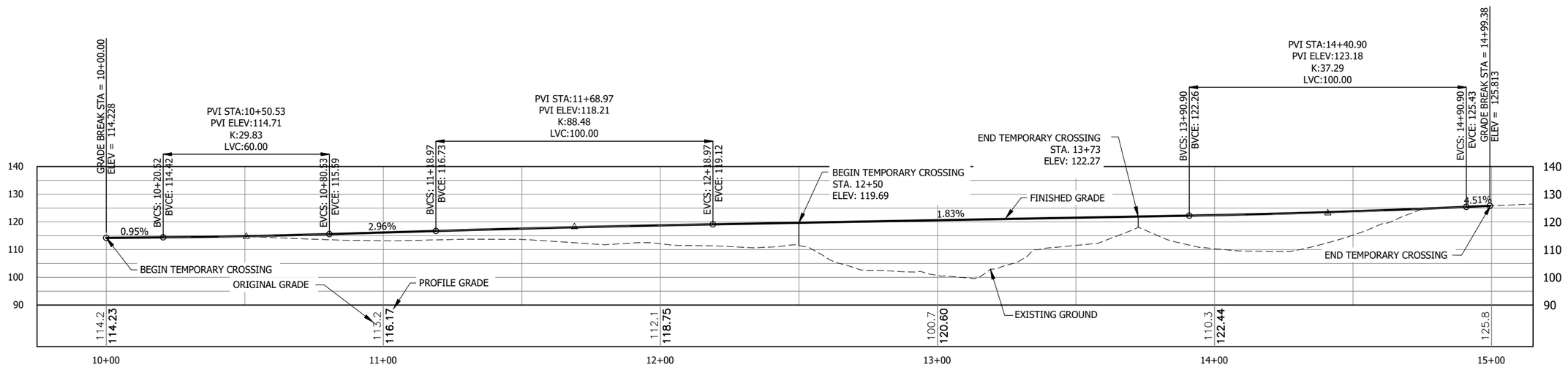
END TEMPORARY CROSSING
STA: "T" 13+73

THREEMILE CREEK

SAWCUT & MATCH EXISTING

20' 0 20' 40'
GRAPHIC SCALE (FT)

PLAN



PROFILE

THREEMILE CREEK
TEMPORARY BRIDGE
WIDTH = 14 FT.
LENGTH = 140 FT.

TEMPORARY CROSSING

50% REVIEW

PLANS DEVELOPED BY: STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES, SOUTHCOAST REGION, 6860 GLACIER HWY, JUNEAU, AK 99801 (907)465-1763
\\dot\shared\SR_ProjectData\Pow\SFHWY00615\RE\Planset\SFHWY00615_J1-TEMPORARY CROSSING Wed, Feb/04/26 05:16pm

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	SFHWY00615 / 092402	2026	L1	30

PLANS DEVELOPED BY: STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES, SOUTHCOAST REGION, 6860 GLACIER HWY, JUNEAU, AK 99801 (907)465-1763
HDR ENGINEERING INC. 582 E 36TH AVE. STE 500 ANCHORAGE, AK 99503-4169 (907) 644-2000 CERT. OF AUTH. AECC569
\\dot\shared\SR_ProjectData\Pow\SFHWY00615\RE\Planset\HDR_SAWC_USFWS\Draft 50% - Threemile Export_20260130\L1 STREAM_GRADING-L1 Wed, Feb/04/26 05:01pm

ROW LINE (TYP.)

PROPOSED STREAM CENTERLINE
(SEE SHEET C0.3 FOR PROFILE)

THREEMILE CREEK

EDGE OF STREAM GRADING

PROTECT EXISTING VEGETATED ISLAND

DISTURBANCE LIMITS

PROPERTY LINE (TYP.)

S-924 (HOLLIS ROAD)

DOWNSTREAM SECTION 1

DOWNSTREAM SECTION 2

UPSTREAM SECTION 1

TYPICAL SECTION THROUGH CROSSING

0 10 20 40
1"=20' 22x34
1"=40' 11x17

STREAM GRADING PLAN

50% REVIEW

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	SFHWY00615 / 092402	2026	L2	30

ROW LINE (TYP.)

THREEMILE CREEK

APPROXIMATE LOCATION OF EXISTING TREE (TYP.)

WEDGED LOG (TYP.)

S-924 (HOLLIS ROAD)

0 10 20 40
1"=20' 22x34
1"=40' 11x17

THREEMILE CREEK

GRADE CONTROL LOG

DEFLECTOR ELJ (TYP.)

LOG JACK ELJ (TYP.)

FLOODPLAIN ELJ (TYP.)

BANK ELJ (TYP.)

STREAMBED MATERIAL

EXCAVATE TO NATIVE STREAMBED MATERIAL UPSTREAM

PROPERTY LINE (TYP.)

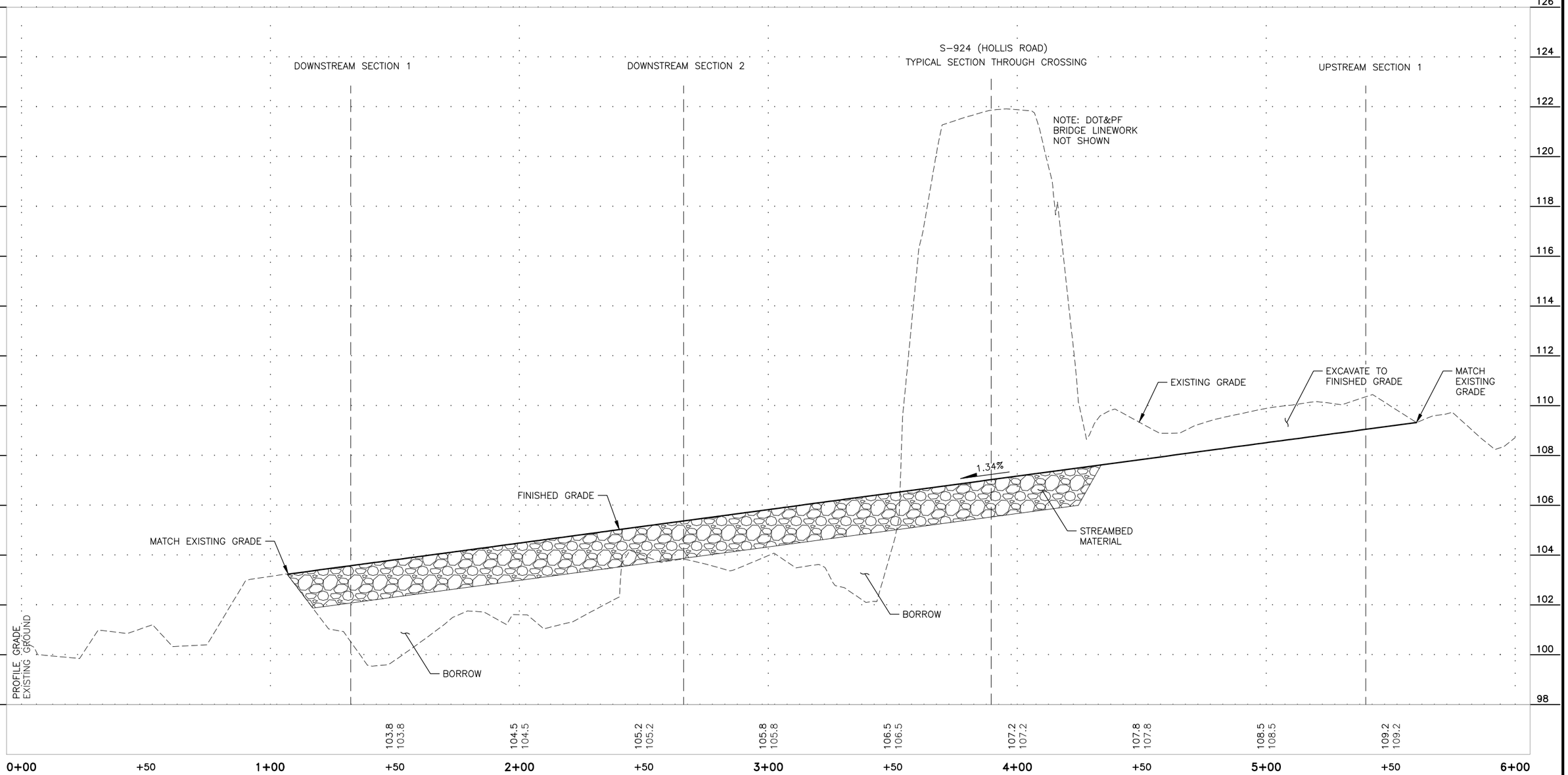
STREAM RESTORATION PLAN

50% REVIEW

PLANS DEVELOPED BY: STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES, SOUTHCOAST REGION, 6860 GLACIER HWY, JUNEAU, AK 99801 (907)465-1763
HDR ENGINEERING INC. 582 E 36TH AVE. STE 500 ANCHORAGE, AK 99503-4169 (907) 644-2000 CERT. OF AUTH. AECC569
\\dot\shared\SR_ProjectData\Pow\SFHWY00615\RE\Planset\HDR_SAWC_USFWS\Draft 50% - Threemile Export_20260130\L2 STREAM_PLAN-L2 Wed, Feb/04/26 05:01pm

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	SFHWY00615 / 092402	2026	L3	30



STREAM PROFILE

SCALE: H=1":20' V=1":2'

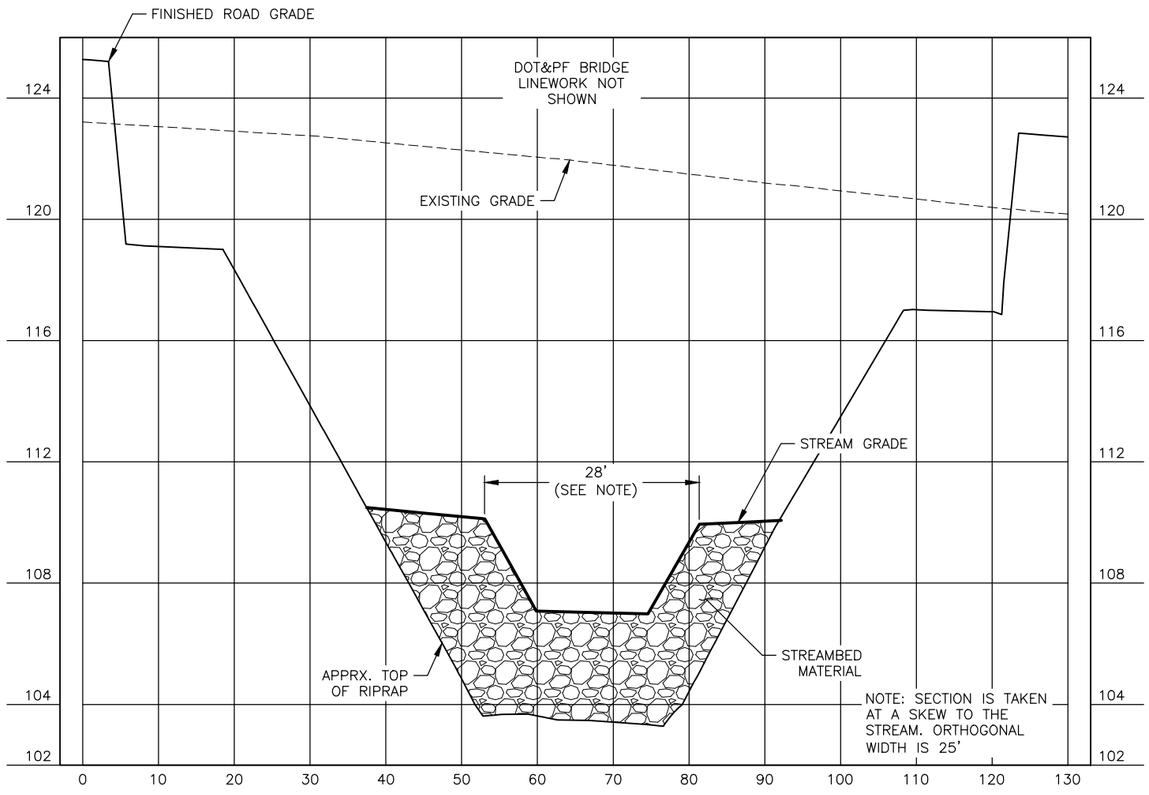
STREAM PROFILE

50% REVIEW

PLANS DEVELOPED BY: STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES, SOUTHCOAST REGION, 6860 GLACIER HWY, JUNEAU, AK 99801 (907)465-1763
HDR ENGINEERING INC. 582 E 36TH AVE. STE 500 ANCHORAGE, AK 99503-4169 (907) 644-2000 CERT. OF AUTH. AECC569
\\dot\shared\SR_ProjectData\Pow\SFHWY00615\RE\Planset\HDR_SAWC_USFWS\Draft 50% - Threemile Export_20260130\L3 STREAM_PROFILE-L3 Wed, Feb/04/26 05:01pm

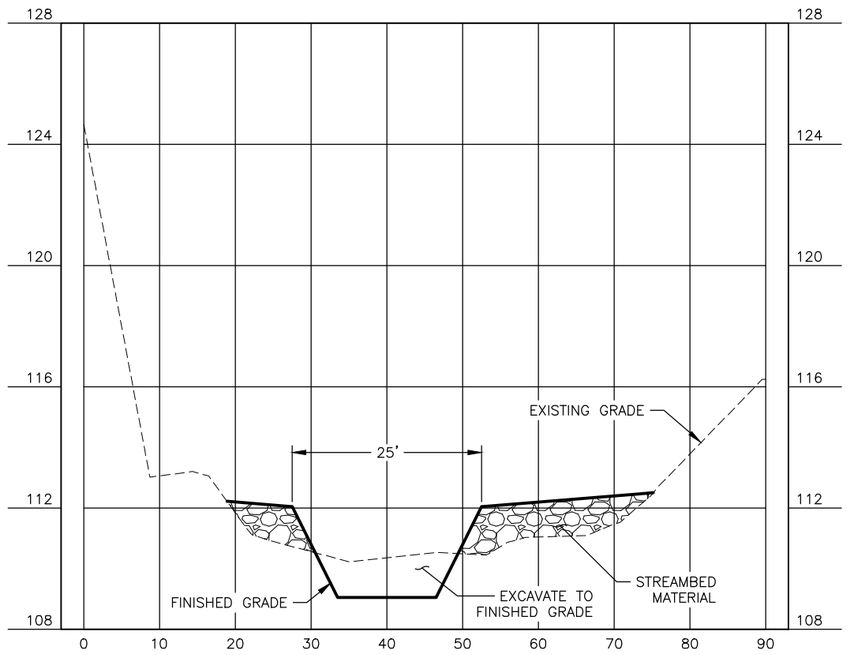
NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	SFHWY00615 / 092402	2026	L4	30



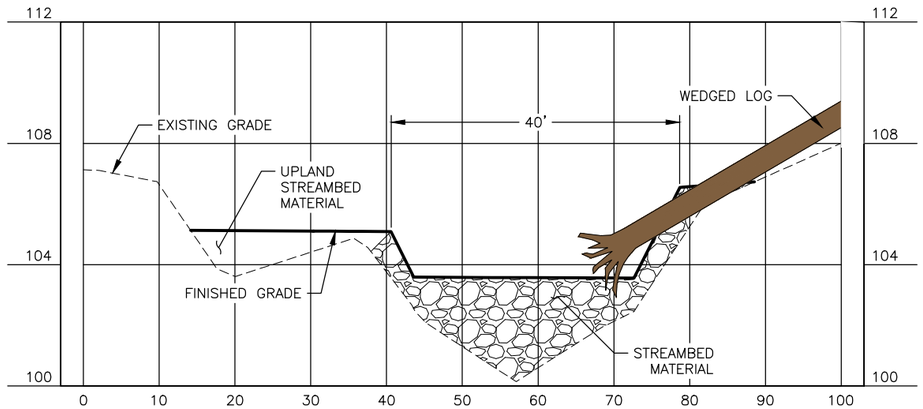
TYPICAL SECTION THROUGH CROSSING

SCALE: H=1":10' V=1":2'



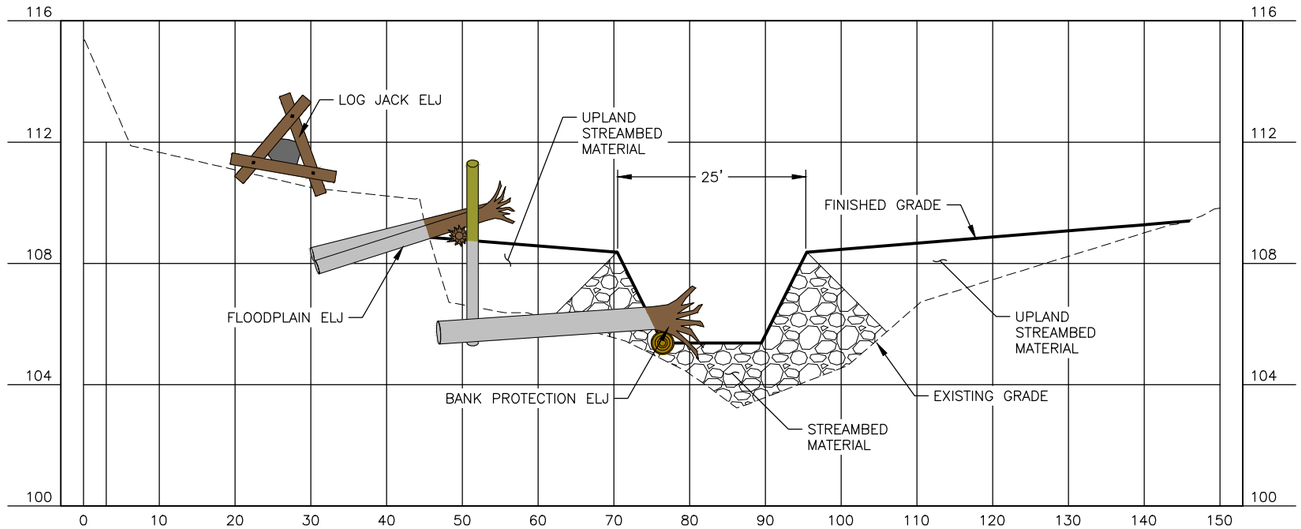
UPSTREAM SECTION 1

SCALE: H=1":20' V=1":2'



DOWNSTREAM SECTION 1

SCALE: H=1":10' V=1":2'



DOWNSTREAM SECTION 2

SCALE: H=1":10' V=1":2'

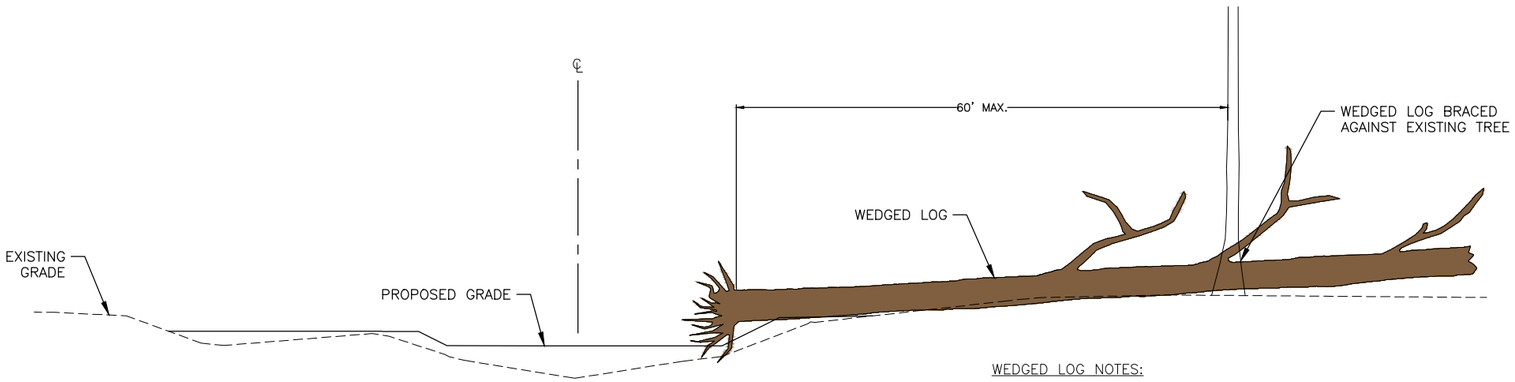
STREAM SECTIONS

50% REVIEW

PLANS DEVELOPED BY: STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES, SOUTHCOAST REGION, 6860 GLACIER HWY, JUNEAU, AK 99801 (907)465-1763
HDR ENGINEERING INC. 582 E 36TH AVE. STE 500 ANCHORAGE, AK 99503-4169 (907) 644-2000 CERT. OF AUTH. AECC569
\\dot\shared\SR_ProjectData\Pow\SFHWY00615\RE\Planset\HDR_SAWC_USFWS\Draft 50% - Threemile Export_20260130\L4 STREAM_SECTIONS-L4 Wed, Feb/04/26 05:02pm

NO.	DATE	REVISION

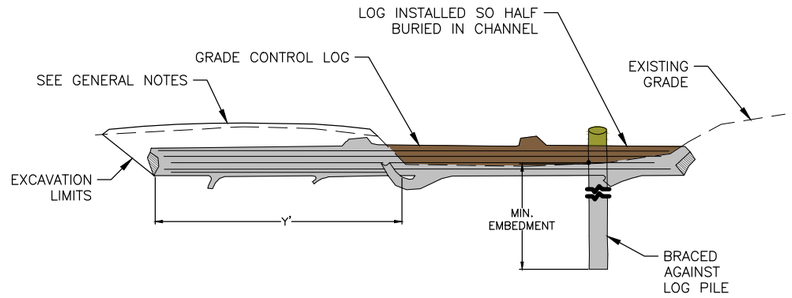
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	SFHWY00615 / 092402	2026	L5	30



WEDGED LOG NOTES:

1. EXCAVATE HOLE FOR ROOTWAD TO SIT IN.
2. TRIM BRANCHES ON GROUND SIDE OF LOG TO ALLOW LOG TRUNK TO CONTACT GROUND.

A / L6 WEDGED LOG SECTION
NTS



A / L6 GRADE CONTROL LOG SECTION
NTS

FLOODPLAIN ELJ NOTES:

1. EACH LOG ASSEMBLAGE CONSTRUCTED USING:
   - 1 LOG PILE (12" DIAM X 16' LONG)
   - 1 LOG TYPE A (12" DIAM X 16' LONG)
   - 1 LOG TYPE E (12" DIAM X 16' LONG)
2. GRAYED SECTION OF LOGS REPRESENTS PORTION OF LOG TO BE BURIED.

1 / L6 FLOODPLAIN ELJ PLAN
NTS

C / L6 FLOODPLAIN ELJ ELEVATION
NTS

D / L6 FLOODPLAIN ELJ ELEVATION
NTS

STREAM DETAILS 1

50% REVIEW

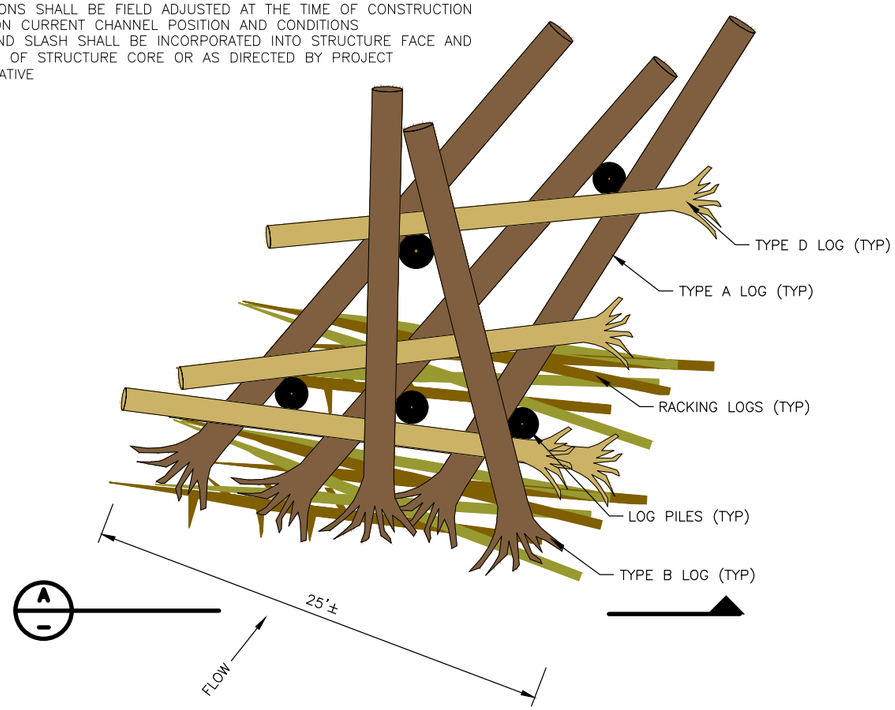
PLANS DEVELOPED BY: STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES, SOUTHCOAST REGION, 6860 GLACIER HWY, JUNEAU, AK 99801 (907)465-1763
HDR ENGINEERING INC. 582 E 36TH AVE. STE 500 ANCHORAGE, AK 99503-4169 (907) 644-2000 CERT. OF AUTH. AECC569
\\dot\shared\SR_ProjectData\Pow\SFHWY00615\RE\Planset\HDR_SAWC_USFWS\Draft 50% - Threemile Export_20260130\L5 STREAM_DETAILS-L5 Wed, Feb/04/26 05:02pm

NO.	DATE	REVISION

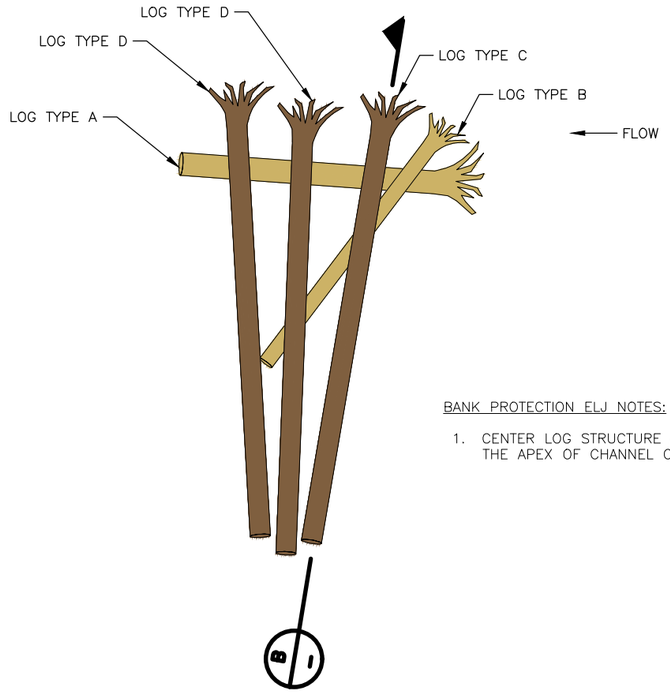
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	SFHWY00615 / 092402	2026	L6	30

DEFLECTOR ELJ NOTES:

1. ELJ LOCATIONS SHALL BE FIELD ADJUSTED AT THE TIME OF CONSTRUCTION BASED UPON CURRENT CHANNEL POSITION AND CONDITIONS
2. RACKING AND SLASH SHALL BE INCORPORATED INTO STRUCTURE FACE AND FRONT 1/3 OF STRUCTURE CORE OR AS DIRECTED BY PROJECT REPRESENTATIVE



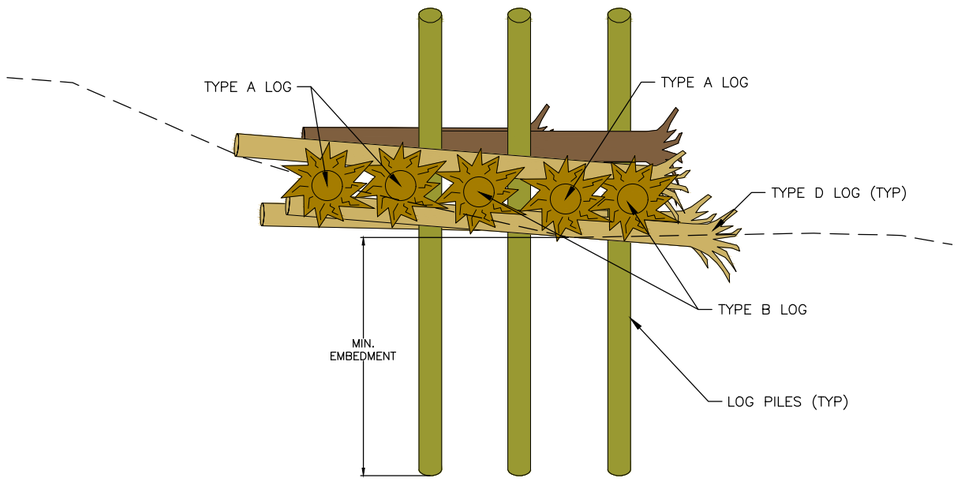
1 / L7 DEFLECTOR ELJ PLAN
NTS



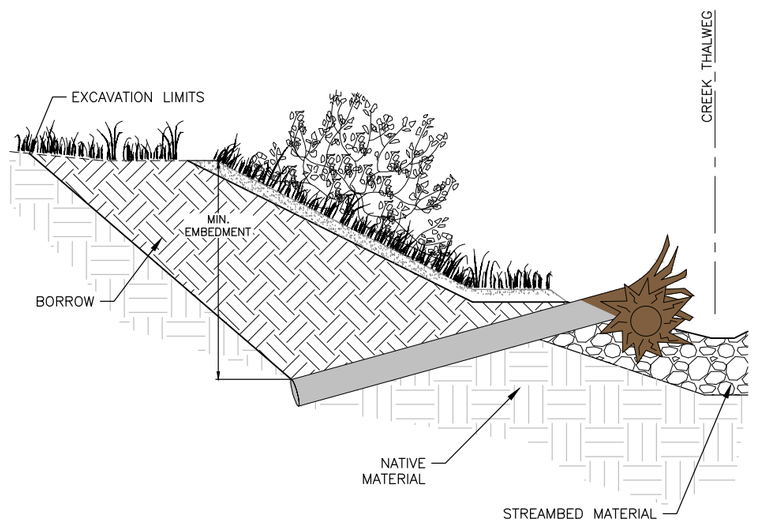
BANK PROTECTION ELJ NOTES:

1. CENTER LOG STRUCTURE AT THE APEX OF CHANNEL CURVE.

B / L7 BANK PROTECTION ELJ PLAN
NTS



A / L7 DEFLECTOR ELJ ELEVATION
NTS



B / L7 BANK PROTECTION ELJ SECTION
NTS

STREAM DETAILS 2

50% REVIEW

PLANS DEVELOPED BY: STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES, SOUTHCOAST REGION, 6860 GLACIER HWY, JUNEAU, AK 99801 (907)465-1763
HDR ENGINEERING INC. 582 E 36TH AVE. STE 500 ANCHORAGE, AK 99503-4169 (907) 644-2000 CERT. OF AUTH. AECC569
\\dot\shared\SR_ProjectData\Pow\SFHWY00615\RE\Planset\HDR_SAWC_USFWS\Draft 50% - Threemile Export_20260130\L6 STREAM_DETAILS-L6 Wed, Feb/04/26 05:02pm

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	SFHWY00615 / 092402	2026	L7	30

LOG JACK
DETAILS

LOG JACK
DETAILS

LOG JACK
DETAILS

LOG JACK
DETAILS

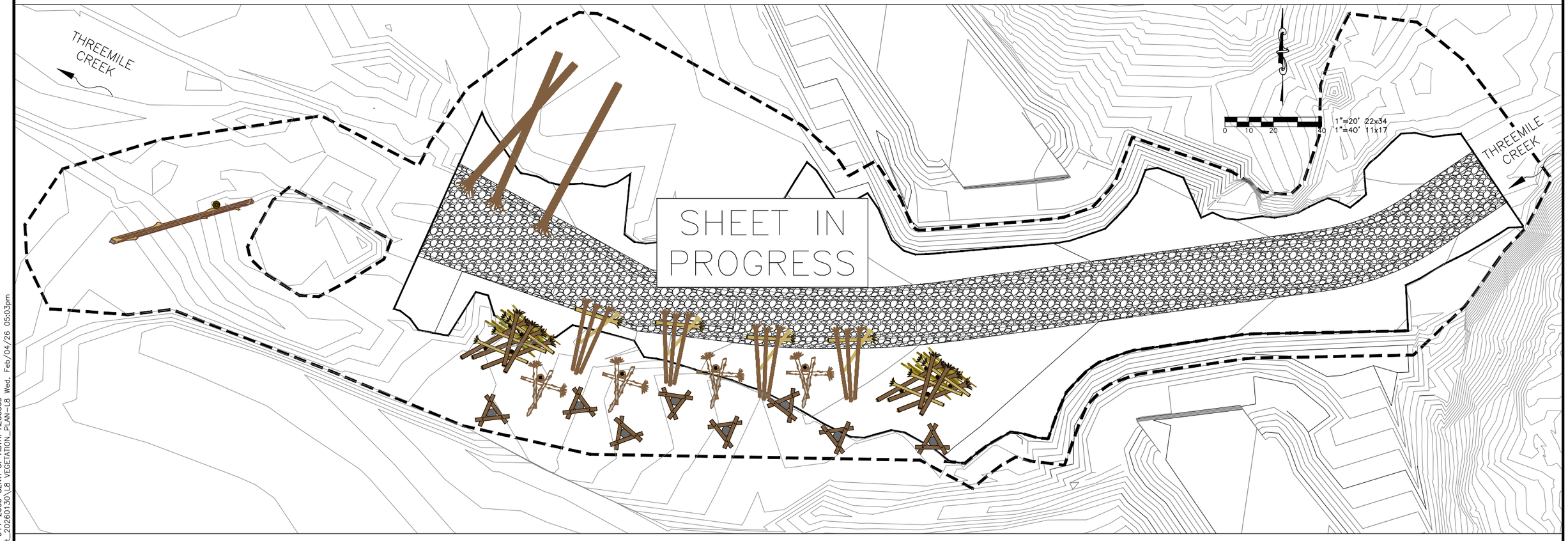
STREAM DETAILS 3

50%
REVIEW

PLANS DEVELOPED BY: STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES, SOUTHCOAST REGION, 6860 GLACIER HWY, JUNEAU, AK 99801 (907)465-1763
HDR ENGINEERING INC. 582 E 36TH AVE. STE 500 ANCHORAGE, AK 99503-4169 (907) 644-2000 CERT. OF AUTH. AECC569
\\dot\shared\SR_ProjectData\Pow\SFHWY00615\RE\Planset\HDR_SAWC_USFWS\Draft 50% - Threemile Export_20260130\L7 STREAM_DETAILS-L7 Wed, Feb/04/26 05:02pm

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	SFHWY00615 / 092402	2026	L8	30



VEG MAT DETAILS

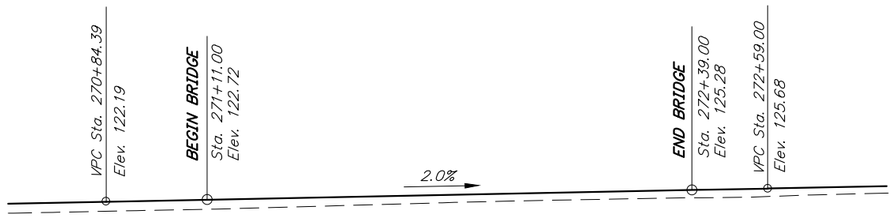
PLANTING DETAILS

SURFACE RESTORATION PLAN

50% REVIEW

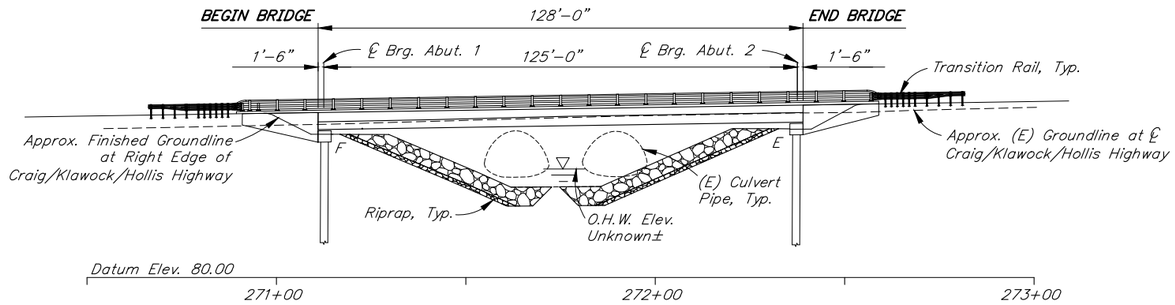
PLANS DEVELOPED BY: STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES, SOUTHCOAST REGION, 6860 GLACIER HWY, JUNEAU, AK 99801 (907)465-1763
HDR ENGINEERING INC. 582 E 36TH AVE. STE 500 ANCHORAGE, AK 99503-4169 (907) 644-2000 CERT. OF AUTH. AECC569
\\dot\shared\SR_ProjectData\Pow\SFHWY00615\RE\Planset\HDR_SAWC_USFWS\Draft 50% - Threemile Export_20260130\L8 VEGETATION_PLAN-L8 Wed, Feb/04/26 05:03pm

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0924021/SFHWY00615	2026	N1	30



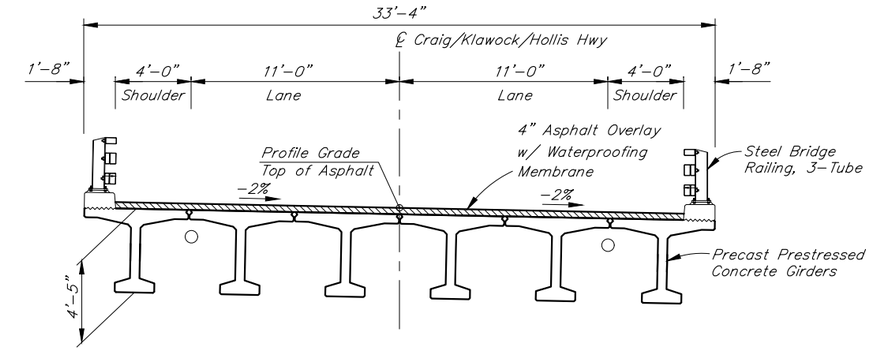
PROFILE GRADE DATA

No Scale



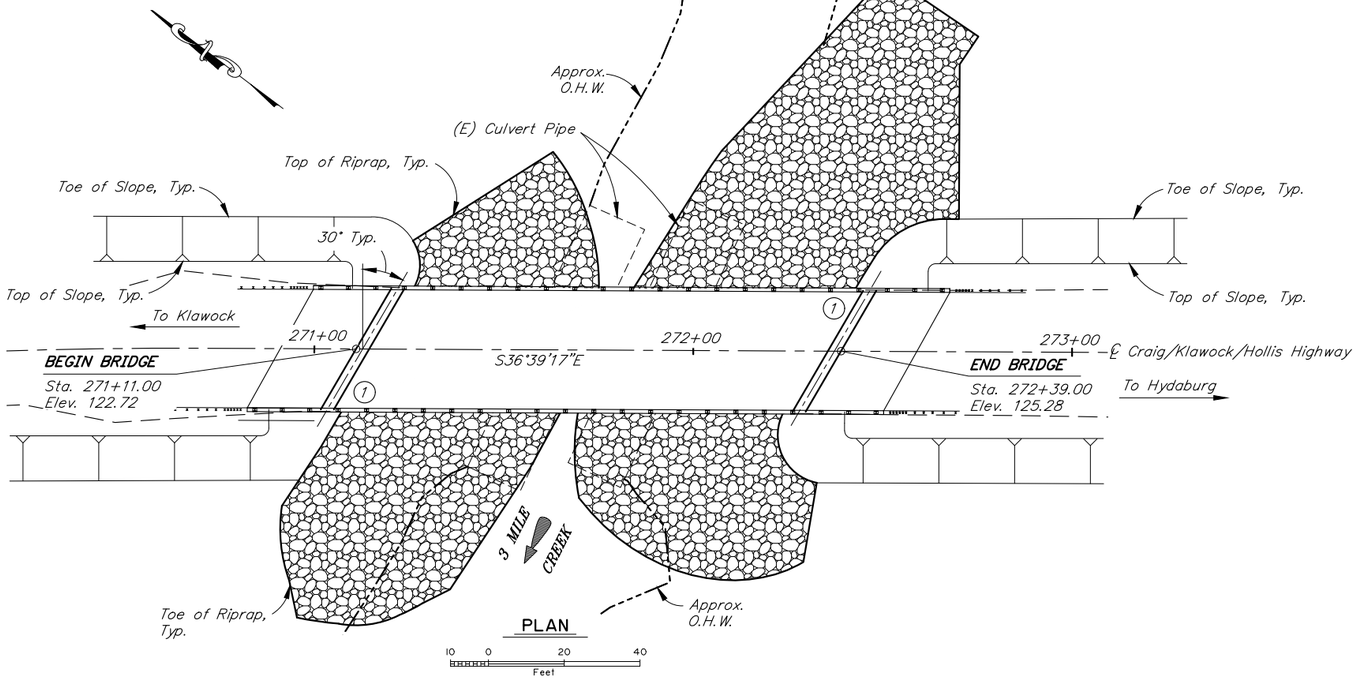
ELEVATION

10 0 20 40
Feet



TYPICAL SECTION

12 0 4 8
In. Feet



PLAN

10 0 20 40
Feet

BRIDGE DRAWING INDEX	
TITLE	DWG. NO.
GENERAL LAYOUT	1
SITE PLAN	2
RIPRAP LAYOUT	3
RIPRAP DETAILS	4
ABUTMENT 1	5
ABUTMENT 2	6
WINGWALLS	7
FRAMING PLAN AND TYPICAL SECTION	8
GIRDERS	9
GIRDER DETAILS	10
APPROACH SLABS	11
STEEL BRIDGE RAILING, 3-TUBE	12
TEST HOLE LOGS AND LOCATIONS	13-17

PRELIMINARY PLAN

NOTES:

(1) *Approximate location of Bridge Number Plate.*

DESIGNED BY: Julie Tibor	CHECKED: Nick Murray	LAYOUT BY: Julie Tibor	CHECKED BY: Nick Murray	
DRAWN BY: Rickie Grantham	CHECKED: Julie Tibor	SPECIFICATIONS BY: Julie Tibor	P S & E COMPARED: Nick Murray	
QUANTITIES BY: Julie Tibor	CHECKED: Nick Murray	APPROVAL RECOMMENDED BY: Leslie Daugherty		

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
BRIDGE SECTION
3132 Channel Drive
Juneau, Alaska 99801
907-465-2975

THREEMILE CREEK BRIDGE

CRAIG/KLAWOCK/HOLLIS HIGHWAY

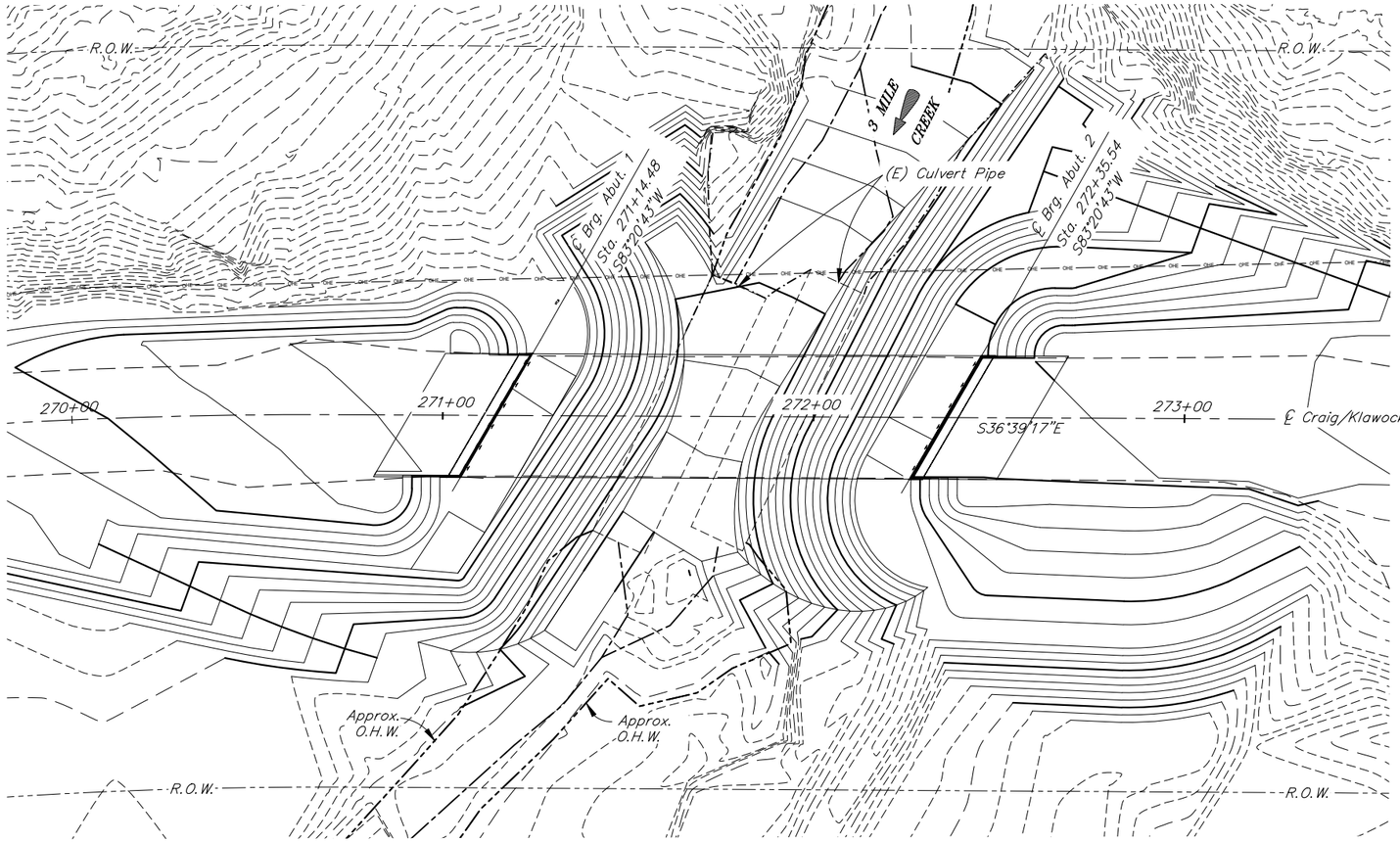
GENERAL LAYOUT

BRIDGE NO. 480

DWG. NO. 1

\\dot.soa.alaska.gov\shared\BRIDGE\cad\480\480-01-GEN Thu, Feb/05/26 10:30am

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0924021/SFHWY00615	2026	N2	30



SITE PLAN

10 0 20 40
Feet

GENERAL NOTES

DESIGN: AASHTO LRFD Bridge Design Specifications, 10th Edition, with latest interim revisions.

Seismic design per AASHTO Guide Specifications for LRFD Seismic Bridge Design, 2023 with latest interim revisions.

LIVE LOAD: HL-93

DEAD LOAD: Includes 50 psf for all wearing surfaces.

SEISMIC PARAMETERS: Seismic Design Category =
Site Class =
Liquefaction Potential =
AASHTO Risk-Targeted Ground Motions, 1.5% targeted risk in 75 years. Selected acceleration coefficients shown below:

SITE ADJUSTED SPECTRAL ACCELERATION COEFFICIENTS (S_a)			
PERIOD (SEC)	ACCELERATION (g)	PERIOD (SEC)	ACCELERATION (g)
0.00		1.00	
0.10		1.50	
0.25		2.00	
0.50		3.00	
0.75		4.00	

REINFORCEMENT: ASTM A706, Grade 60, Fy = 60,000 psi
ASTM A970 Headed bars, Class HA.
Space reinforcement evenly unless otherwise noted.

PRESTRESSED CONCRETE: See "GIRDERS" Dwg.

CONCRETE: Class A Concrete unless otherwise noted, f'c = 4,000 psi

STRUCTURAL STEEL: ASTM A709, Grade 36T3, Fy = 36,000 psi
Galvanize structural steel in accordance with AASHTO M111 unless noted otherwise.

STRUCTURAL STEEL PILING: ASTM A709, GR50T3, Fy = 50,000 psi.
Pile Tip reinforcing is required.

PILE DATA TABLE

LOCATION	PILE TYPE	DRIVING CRITERIA: MINIMUM PENETRATION (ft)	DRIVING CRITERIA: ESTIMATED PILE TIP ELEVATION (ft)	DRIVING CRITERIA: DRIVING RESISTANCE (K)	DESIGN DATA: STRENGTH I FACTORED LOAD (K)	DESIGN DATA: NOMINAL RESISTANCE (K)	DESIGN DATA: RESISTANCE FACTOR, ϕ
Abutment 1	HP14x117		73.00				
Abutment 2	HP14x117		75.00				

Difficult driving conditions are expected. Pilot bore hole required for each pile.

ESTIMATE OF QUANTITIES

ITEM NO.	ITEM	PAY UNIT	ESTIMATING UNIT	SUBST.	SUPERST.	TOTAL QUANTITY
202.0018.0000	Removal of Culvert, No. 7177	LS	LF	---	---	72
203.0003.0000	Unclassified Excavation	CY	CY	3,650	---	3,650
205.0006.0000	Structural Fill	CY	CY	---	1,200	1,200
501.0001.0000	Class A Concrete	LS	CY	52	83	135
501.0007.0000	Precast Concrete Member, 126'-6" Decked Bulb-Tee	EA	EA	---	6	6
503.0001.0000	Reinforcing Steel	LS	LBS	9,155	---	9,155
503.0002.0000	Epoxy-Coated Reinforcing Steel	LS	LBS	---	3,137	3,137
505.0005.0001	Furnish Structural Steel Piles, HP14x117	LF	LF	400	---	400
505.0006.0001	Drive Structural Steel Piles, HP14x117	EA	EA	10	---	10
507.0001.0003	Steel Bridge Railing, 3-Tube	LF	LF	---	336	336
508.0001.0000	Waterproofing Membrane, Spray-Applied	SF	SF	---	5,040	5,040
520.0001.0000	Temporary Crossings	LS	LS	---	---	1
606.0016.0000	Transition Rail	EA	EA	---	4	4
611.0001.0001	Riprap, Class I	CY	CY	555	---	555
611.0001.0003	Riprap, Class III	CY	CY	2,400	---	2,400

Item numbers are for reference only. Quantities shown are not necessarily the pay quantities nor the total quantity of the particular item.

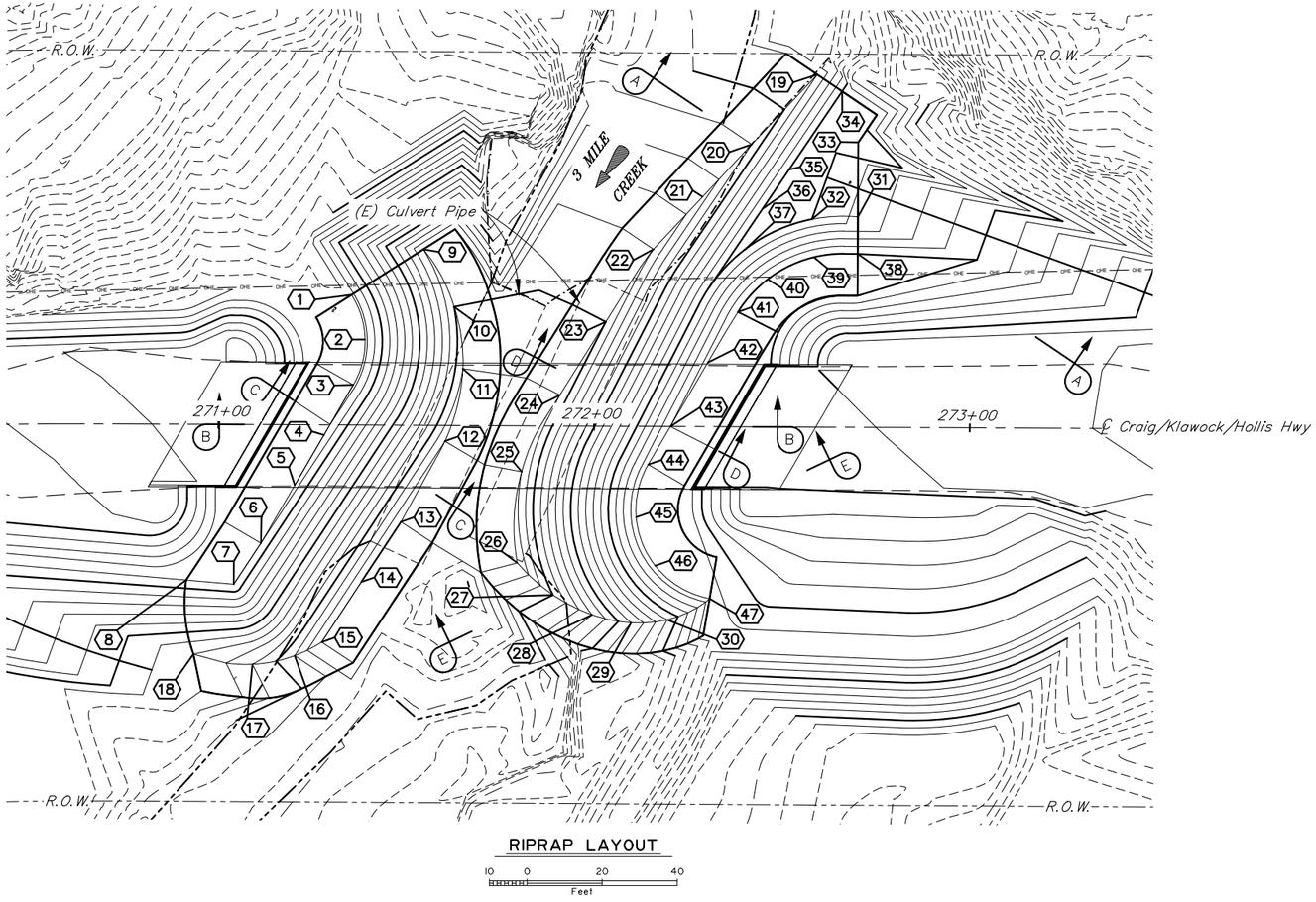
ABBREVIATIONS:

℄	= centerline	e.f.	= each face	min.	= minimum
℗	= plate	e.w.	= each way	n.f.	= near face
&	= and	Ext.	= exterior	No.	= number
@	= at	F	= fixed	o.c.	= center
ø	= diameter	f.a.	= front/air face	O.H.W.	= ordinary high water
±	= approximate	f'c	= specified concrete compressive strength	pcf	= pounds per cubic foot
Abut.	= abutment			psf	= pounds per square foot
Approx.	= approximate	f'ci	= specified concrete compressive strength at release	psi	= pounds per square inch
b.f.	= back/dirt face			R	= radius
bot.	= bottom	Ft.	= feet	R.O.W.	= right of way
Br.	= bridge	Fy	= yield stress	RT.	= right
btwn.	= between	Galv.	= galvanize	Rd.	= road
Brg.	= bearings	H.S.	= high strength	spcs.	= space, spaces
C.G.	= center of gravity	Hwy.	= highway	Sta.	= station
C.I.P.	= cast in place	ID	= internal diameter	SF	= square feet
CJP	= complete joint penetration	Int.	= interior	SY	= square yard
Clr.	= clear, clearance	Jt.	= joint	Std.	= standard
CMP	= corrugated metal pipe	K	= kips	Symm.	= symmetric
CY	= cubic yard	ksf	= 1000 pounds per square foot	Typ.	= typical
Dia.	= diameter	ksi	= 1000 pounds per square inch	UT	= ultrasonic testing
Dwg.	= drawing	LBS or lb	= pounds	VPC	= point of vertical curve
E	= expansion	LF	= linear foot	VPI	= point of vertical intersection
(E)	= existing	LS	= lump sum	VPT	= point of vertical tangent
EA	= each	LT.	= left	w/	= with
Elev.	= elevation	max.	= maximum		

DESIGNED BY: Julie Tibor	CHECKED: Nick Murray	FOUNDATIONS REVIEWED BY: Dave Hemstreet	STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES BRIDGE SECTION 3132 Channel Drive Juneau, Alaska 99801 907-465-2975		THREEMILE CREEK BRIDGE CRAIG/KLAWOCK/HOLLIS HIGHWAY SITE PLAN
DRAWN BY: Rickie Grantham	CHECKED: Julie Tibor	PRELIMINARY PLAN			BRIDGE NO. 480 DWG. NO. 2
QUANTITIES BY: Julie Tibor	CHECKED: Nick Murray				

\\dot.soa.alaska.gov\shared\BRIDGE\cad\480\480-02-SITE Thu, Feb/05/26 10:30am

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0924021/SFHWY00615	2026	N3	30



RIPRAP LAYOUT

10 0 20 40
Feet

RIPRAP TABLE

POINT	STATION	OFFSET	ELEVATION	POINT	STATION	OFFSET	ELEVATION
1	271+35.3	34.6' Left	117.3'	25	271+80.8	12.2' Right	103.0'
2	271+38.9	22.8' Left	117.3'	26	271+79.7	36.5' Right	102.0'
3	271+35.8	10.7' Left	117.3'	27	271+89.3	45.0' Right	105.0'
4	271+28.1	2.7' Right	116.9'	28	271+99.7	50.3' Right	108.0'
5	271+20.4	16.1' Right	116.5'	29	272+10.1	52.3' Right	111.0'
6	271+11.5	31.6' Right	116.0'	30	272+19.7	51.5' Right	114.0'
7	271+04.3	42.6' Right	116.0'	31	272+70.0	56.0' Left	115.0'
8	270+91.6	41.5' Right	116.0'	32	272+57.7	55.3' Left	115.0'
9	271+54.3	46.9' Left	106.0'	33	272+70.0	75.9' Left	115.0'
10	271+62.6	31.6' Left	105.0'	34	272+65.6	89.4' Left	115.0'
11	271+65.0	15.1' Left	104.0'	35	272+51.6	68.5' Left	115.0'
12	271+60.3	4.2' Right	103.0'	36	272+44.5	58.0' Left	115.0'
13	271+48.7	25.7' Right	102.0'	37	272+39.9	47.2' Left	115.0'
14	271+38.2	41.8' Right	102.0'	38	272+70.0	46.2' Left	120.0'
15	271+27.7	57.9' Right	102.0'	39	272+58.3	45.2' Left	120.0'
16	271+20.6	61.5' Right	104.0'	40	272+46.1	39.3' Left	120.0'
17	271+09.3	63.9' Right	106.0'	41	272+38.2	30.6' Left	120.0'
18	270+93.6	61.2' Right	108.0'	42	272+30.2	17.0' Left	119.6'
19	272+59.0	93.9' Left	111.0'	43	272+20.3	0.0' Left	119.0'
20	272+41.6	75.2' Left	109.0'	44	272+14.4	10.2' Right	118.5'
21	272+28.6	61.2' Left	107.5'	45	272+11.3	24.2' Right	118.5'
22	272+15.6	47.2' Left	106.0'	46	272+16.4	37.1' Right	118.5'
23	272+03.0	27.8' Left	105.0'	47	272+31.0	45.8' Right	118.5'
24	271+90.8	8.2' Left	104.0'				

HYDRAULIC & HYDROLOGIC SUMMARY, BRIDGE NO. 480

Flood Frequency (Yr.)		
Exceedance Probability (%)		
Discharge (cfs)		
Water Surface Elevation (ft)		
Anticipated Add'l Backwater (ft)		
Contraction Scour (ft)		
Pier Scour (ft)		
Abutment Scour (ft)		
Long-Term Degradation (ft)		

Drainage Area: 51.6 square miles
The hydraulic capacity is roughly 7,600 cfs in an ice-free channel condition.

RIPRAP NOTES:

1. Details show a 6" fill depth of salvaged streambed material over the top of riprap, but should be interpreted as the filling of interstitial voids. Final fill depths and acceptance of any boulder "protrusions" through the salvaged streambed fill layer are at the discretion of the Engineer.
2. Toe of riprap elevation to change at a consistent slope during transition from one elevation contour to the next.

NOTES:

See "RIPRAP DETAILS" Dwg. for "SECTION A-A", "SECTION B-B", "SECTION C-C" Details.

DESIGNED BY: Michael Knapp	CHECKED: Luke Boles	PRELIMINARY PLAN	STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES BRIDGE SECTION 3132 Channel Drive Juneau, Alaska 99801 907-465-2975
DRAWN BY: Rickie Grantham	CHECKED: Michael Knapp		
QUANTITIES BY: Michael Knapp	CHECKED: Luke Boles		

THREEMILE CREEK BRIDGE

CRAIG/KLAWOCK/HOLLIS HIGHWAY

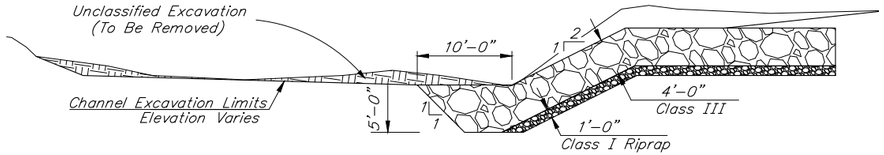
RIPRAP LAYOUT

BRIDGE NO. 480

DWG. NO. 3

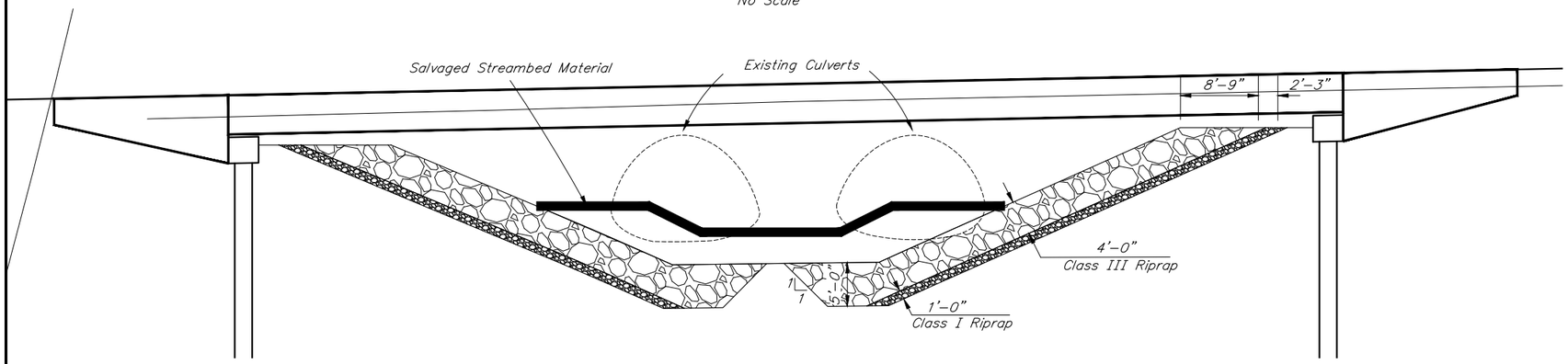
\\dot.soa.alaska.gov\shared\BRIDGE\cad\480\480-03-RIP Thu, Feb/05/26 10:30am

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0924021/SFHWY00615	2026	N4	30



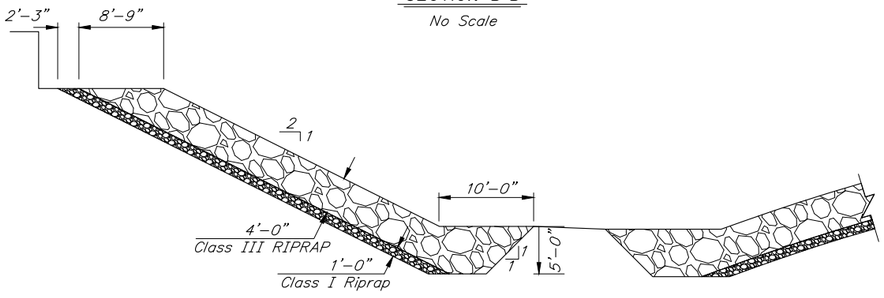
SECTION A-A

No Scale



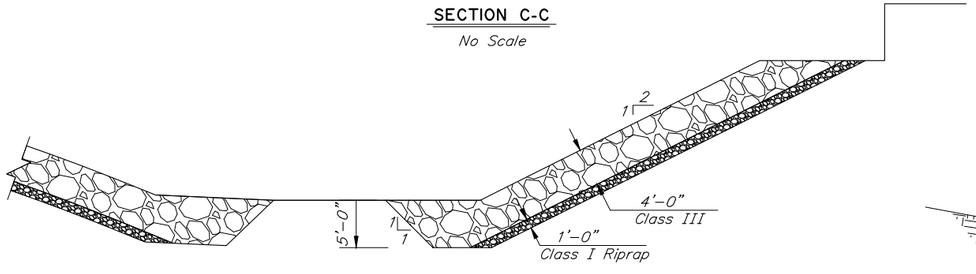
SECTION B-B

No Scale



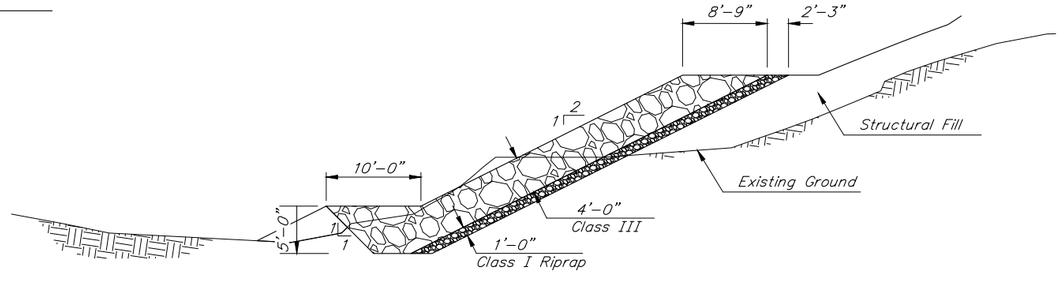
SECTION C-C

No Scale



SECTION D-D

No Scale



SECTION E-E

No Scale

DESIGNED BY: *Michael Knapp*	CHECKED: *Luke Boles*	**PRELIMINARY PLAN**	STATE OF ALASKA **DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES** BRIDGE SECTION 3132 Channel Drive Juneau, Alaska 99801 907-465-2975
DRAWN BY: *Rickie Grantham*	CHECKED: *Michael Knapp*		
QUANTITIES BY: *Michael Knapp*	CHECKED: *Luke Boles*		

THREEMILE CREEK BRIDGE

CRAIG/KLAWOCK/HOLLIS HIGHWAY

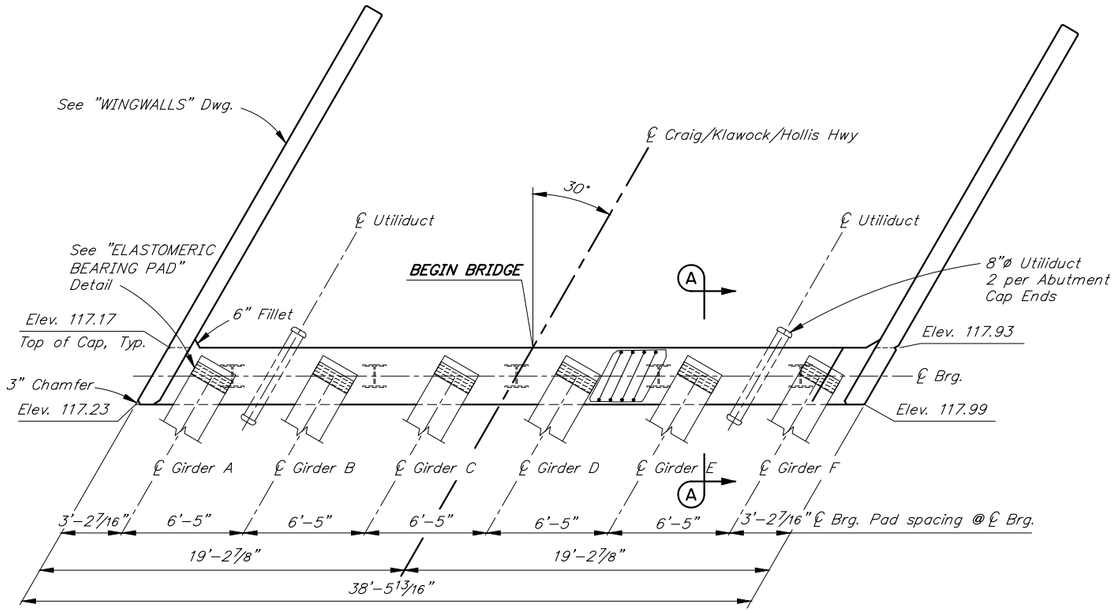
RIPRAP DETAILS

BRIDGE NO. 480

DWG. NO. 4

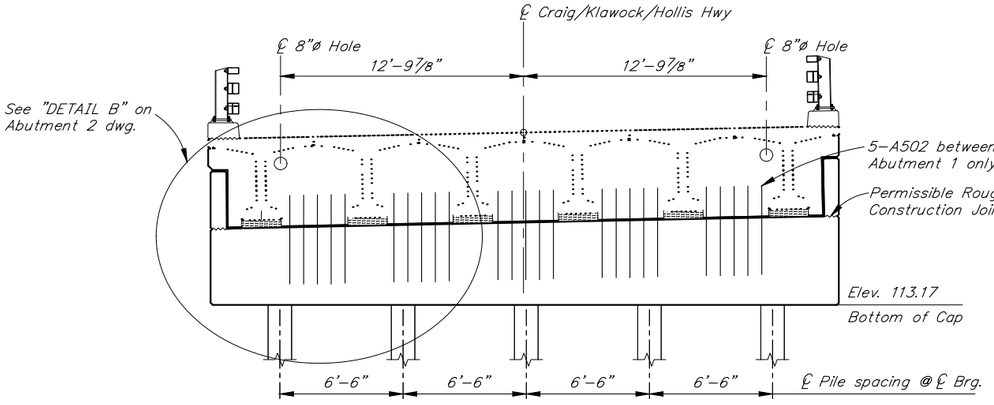
\\dot.soa.alaska.gov\shared\BRIDGE\cad\480\480-04-RIP DET Thu, Feb/05/26 10:30am

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0924021/SFHWY00615	2026	N5	30



PLAN

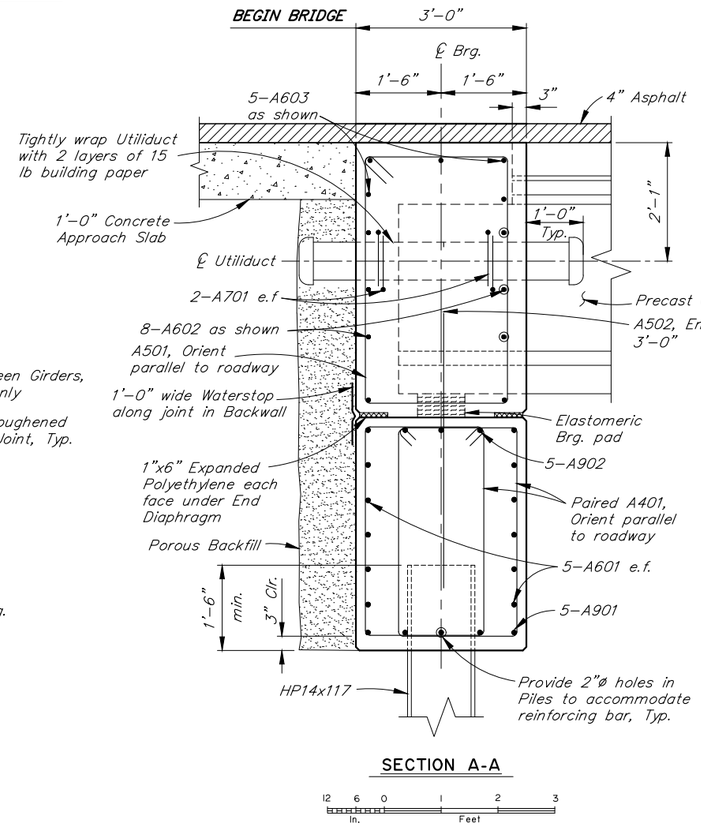
12 0 4 8
In. Feet



ELEVATION

(Looking back on Station)

12 0 4 8
In. Feet

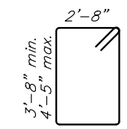


SECTION A-A

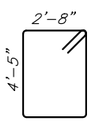
12 6 0 1 2 3
In. Feet

REINFORCING STEEL - ABUTMENT 1

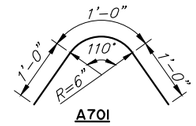
MARK	NOTE	SIZE	NO.	LENGTH	TYPE	BENDING DIAGRAM
A401		4	100	VARIES	STIRRUP	
A501	E	5	34	15'-1"	STIRRUP	
A502	E	5	25	5'-4"	---	
A601		6	10	33'-0"	---	
A602	E	6	8	31'-0"	---	
A603	E	6	5	33'-0"	---	
A701	E	7	8	3'-0"	BENT	
A901		9	5	33'-0"	---	
A902	H	9	5	33'-0"	HEADED	



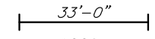
A401



A501

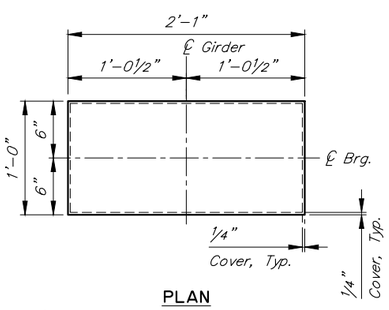


A701

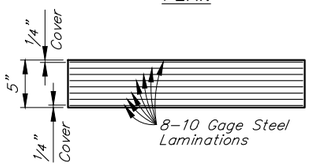


A902

E – Epoxy-Coated
H – Headed reinforcing steel



PLAN



ELEVATION

ELASTOMERIC BEARING PAD

Grade 5
Max. Dead Load = 88 k
Max. Live Load = 83 k
Shear Modulus = 115 psi

12 6 0 1
In. Feet

DESIGNED BY: Julie Tibor	CHECKED: Nick Murray	**PRELIMINARY PLAN**	STATE OF ALASKA **DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES** BRIDGE SECTION 3132 Channel Drive Juneau, Alaska 99801 907-465-2975
DRAWN BY: Rickie Grantham	CHECKED: Julie Tibor		
QUANTITIES BY: Julie Tibor	CHECKED: Nick Murray		

THREEMILE CREEK BRIDGE

CRAIG/KLAWOCK/HOLLIS HIGHWAY

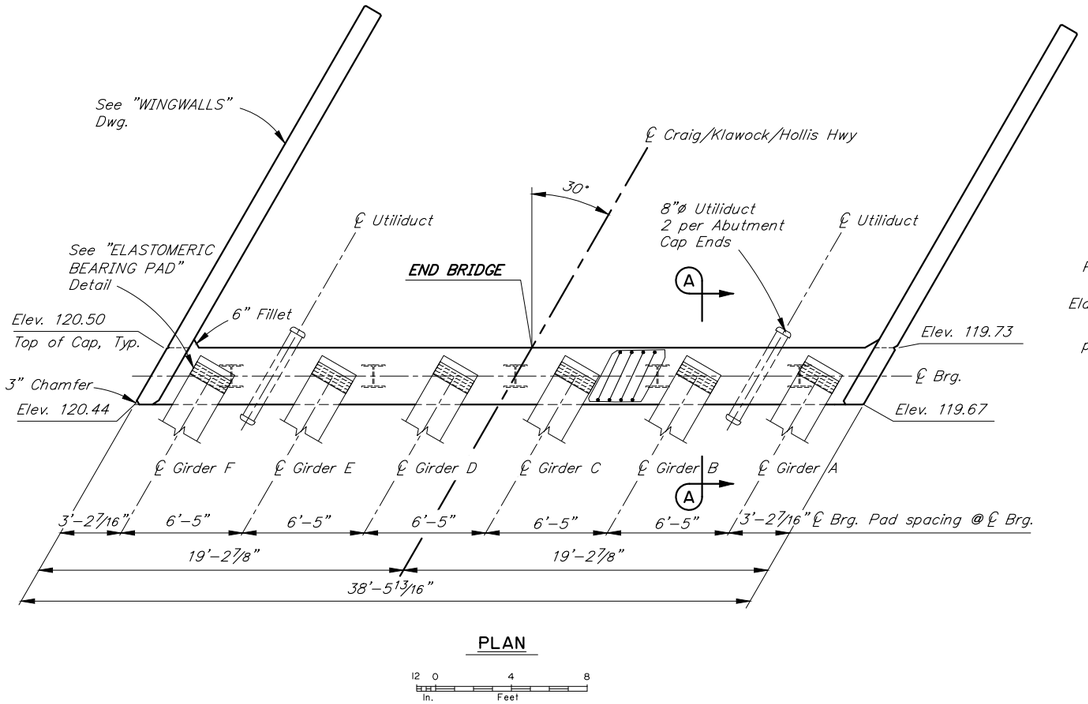
ABUTMENT 1

BRIDGE NO. 480

DWG. NO. 5

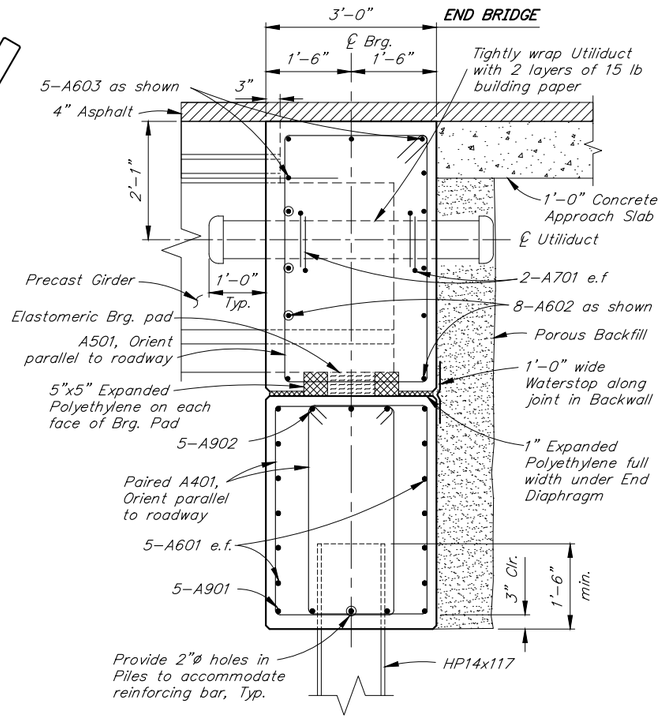
\\dot.soa.alaska.gov\shared\BRIDGE\cad\480\480-1-05-ABUT 1 Thu, Feb/05/26 10:30am

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0924021/SFHWY00615	2026	N6	30



PLAN

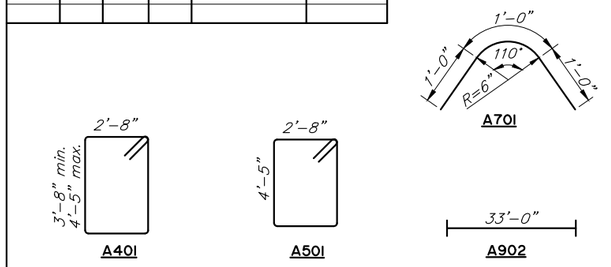
12 0 4 8
In. Feet



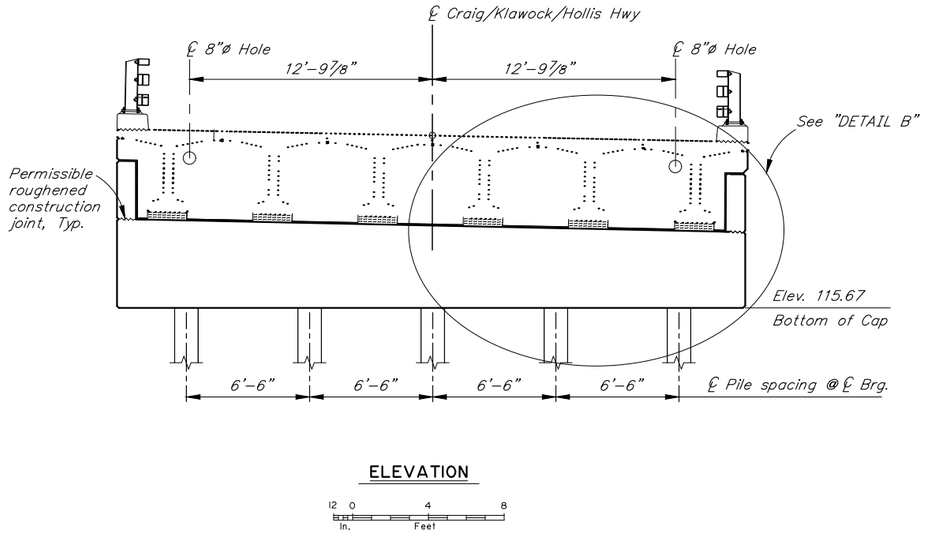
SECTION A-A

12 6 0 1 2 3
In. Feet

REINFORCING STEEL - ABUTMENT 2						
MARK	NOTE	SIZE	NO.	LENGTH	TYPE	BENDING DIAGRAM
A401		4	100	VARIES	STIRRUP	
A501	E	5	34	15'–1"	STIRRUP	
A601		6	10	33'–0"	---	
A602	E	6	8	31'–0"	---	
A603	E	6	5	33'–0"	---	
A701	E	7	8	3'–0"	BENT	
A901		9	5	33'–0"	---	
A902	H	9	5	33'–0"	HEADED	

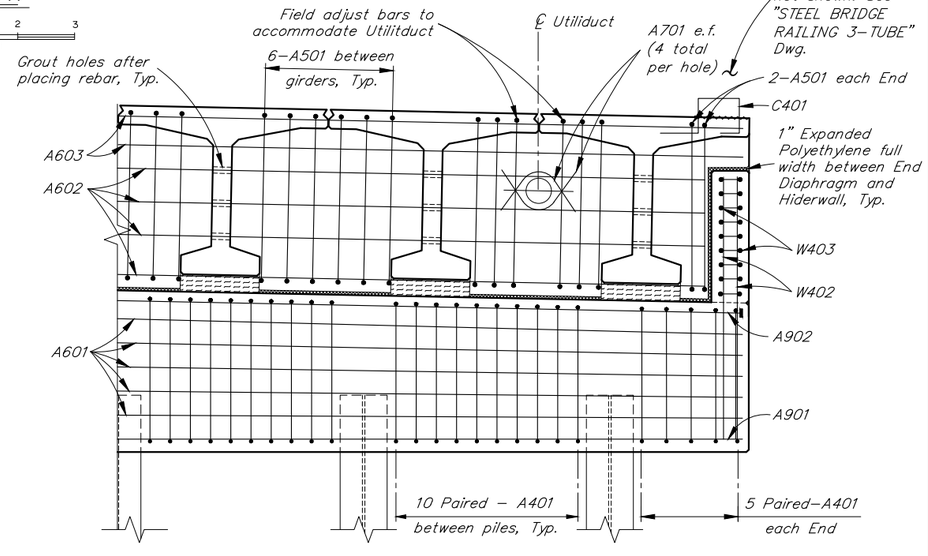


E – Epoxy–Coated
H – Headed reinforcing steel



ELEVATION

12 0 4 8
In. Feet



DETAIL B

(Abutment 2 shown, Abutment 1 similar)

12 6 0 1 2 3 4
In. Feet

DESIGNED BY: Julie Tibor	CHECKED: Nick Murray		
DRAWN BY: Rickie Grantham	CHECKED: Julie Tibor	**PRELIMINARY PLAN**	
QUANTITIES BY: Julie Tibor	CHECKED: Nick Murray		

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
BRIDGE SECTION
3132 Channel Drive
Juneau, Alaska 99801
907–465–2975

THREEMILE CREEK BRIDGE

CRAIG/KLAWOCK/HOLLIS HIGHWAY

ABUTMENT 2

BRIDGE NO. 480

DWG. NO. 6

\\dot.soa.alaska.gov\shared\BRIDGE\cad\480\480-1-06-ABUT 2 Thu, Feb/05/26 10:30am

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0924021/SFHWY00615	2026	N7	30

REINFORCING STEEL - ONE ABUTMENT

MARK	NOTE	SIZE	NO.	LENGTH	TYPE	BENDING DIAGRAM
W401		4	84	VARIES	---	
W402		4	16	8'-2"	---	
W403		4	18	8'-5"	BENT	
W501		5	24	VARIES	---	
W901		9	4	24'-8"	BENT	
W902		9	24	VARIES	---	
W903		9	4	21'-2"	BENT	
C404	E	4	28	7'-7"	STIRRUP	
C405	E	4	6	19'-6"	---	
C406	E	4	6	1'-3"	---	

C404

W401

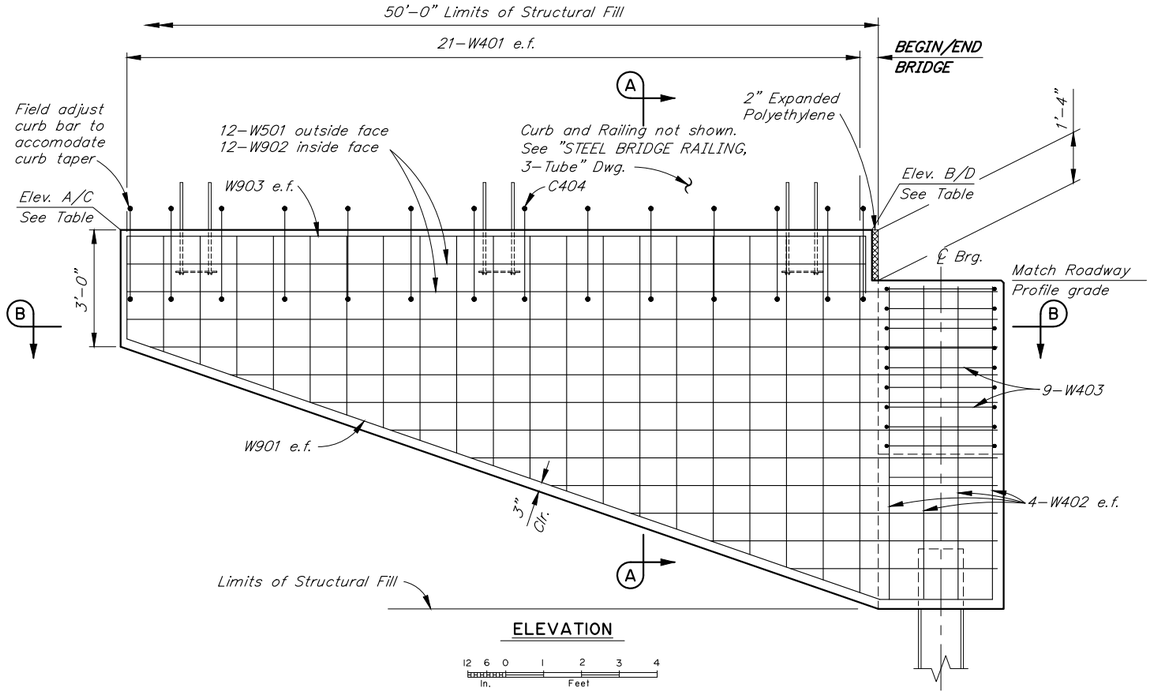
W501, W902

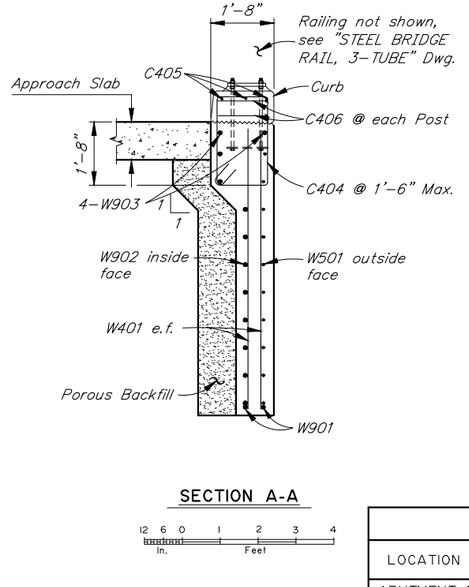
W403

W901

W903

E = Epoxy-Coated

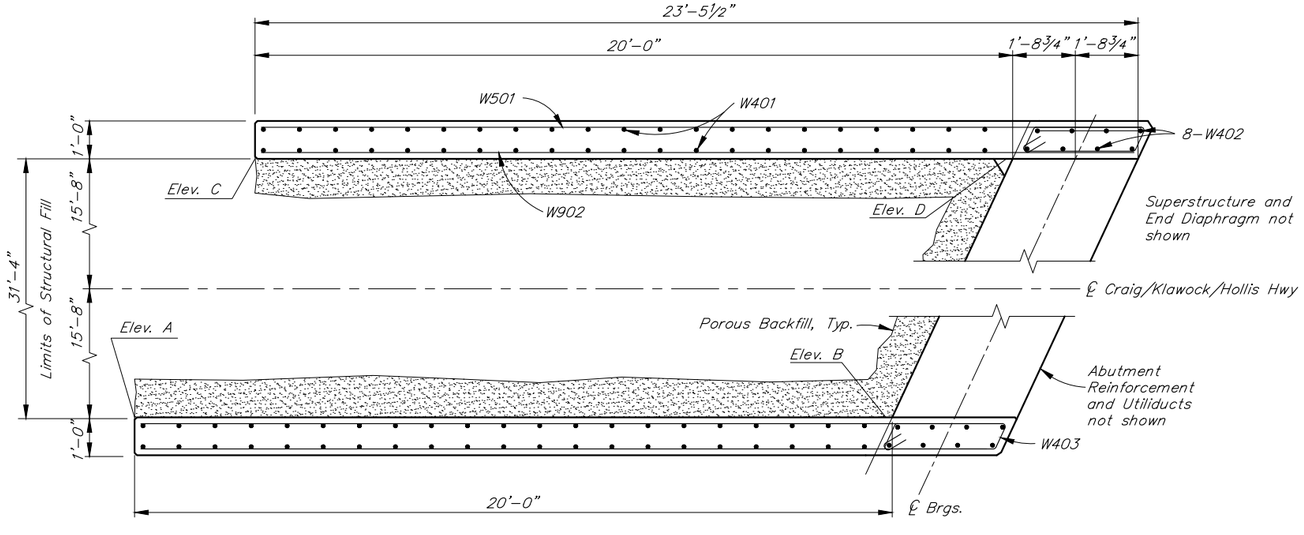




SECTION A-A

12 6 0 1 2 3 4
In. Feet

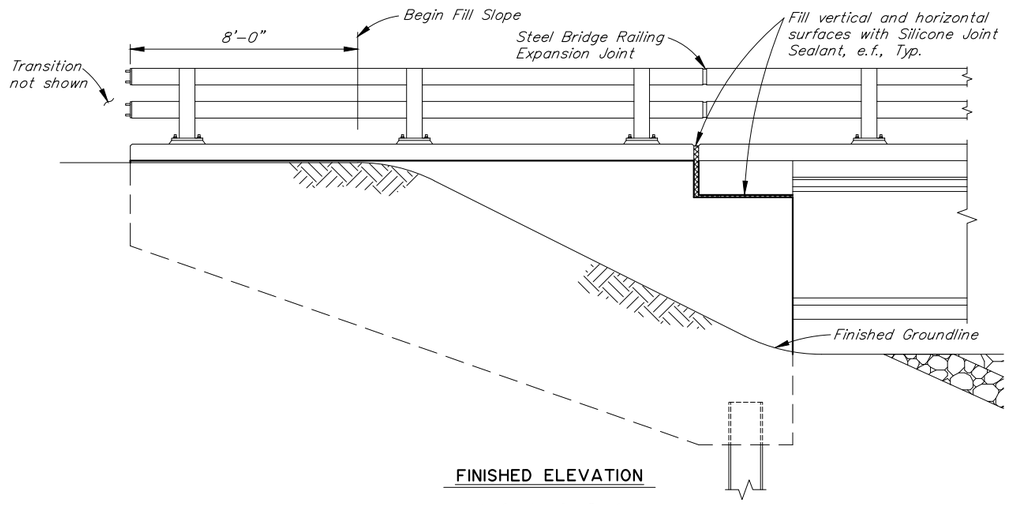
TOP OF WINGWALL ELEVATION TABLE (FT)				
LOCATION	A DOWNSTREAM	B DOWNSTREAM	C UPSTREAM	D UPSTREAM
ABUTMENT 1	121.95	122.35	122.68	123.08
ABUTMENT 2	125.32	124.92	126.05	125.65



SECTION B-B

(Abutment 1 shown, Abutment 2 similar)

12 6 0 1 2 3 4
In. Feet



FINISHED ELEVATION

12 0 1 2 3 4
In. Feet

DESIGNED BY: Julie Tibor	CHECKED: Nick Murray	**PRELIMINARY PLAN**	STATE OF ALASKA **DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES** BRIDGE SECTION 3132 Channel Drive Juneau, Alaska 99801 907-465-2975
DRAWN BY: Rickie Grantham	CHECKED: Julie Tibor		
QUANTITIES BY: Julie Tibor	CHECKED: Nick Murray		

THREEMILE CREEK BRIDGE

CRAIG/KLAWOCK/HOLLIS HIGHWAY

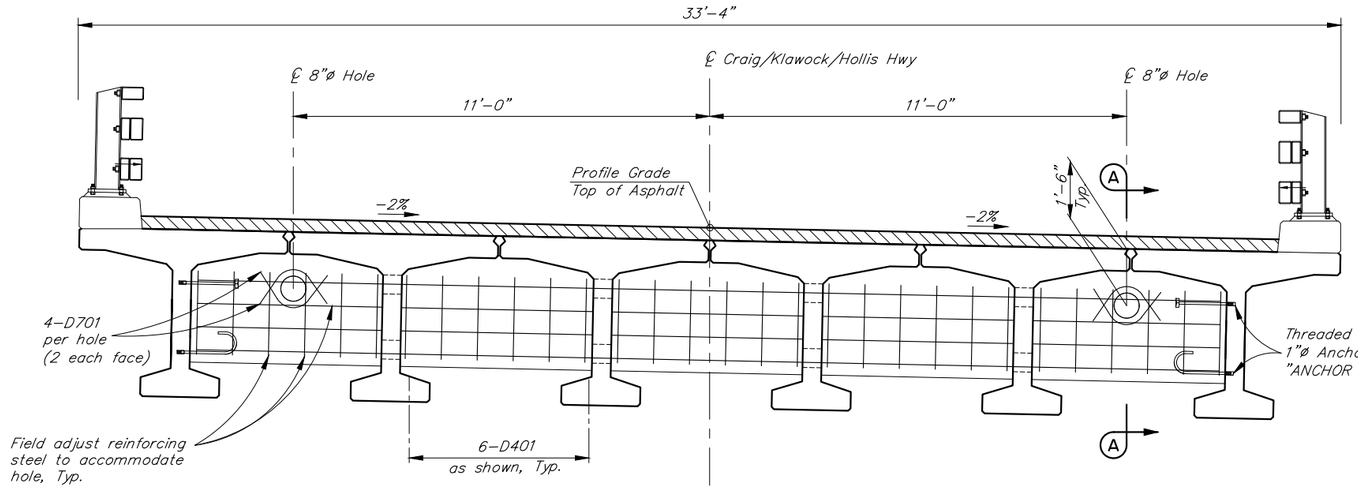
WINGWALLS

BRIDGE NO. 480

DWG. NO. 7

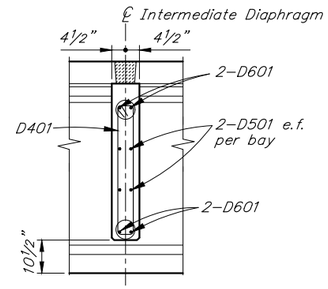
\\dot.soa.alaska.gov\shared\BRIDGE\cad\480\480-1-07-WING Thu, Feb/05/26 10:30am

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0924021/SFHWY00615	2026	N8	30



TYPICAL SECTION

12 6 0 1 2 3 4
In. Feet



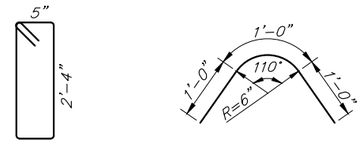
SECTION A-A

12 6 0 1 2 3 4
In. Feet

REINFORCING STEEL - ONE DIAPHRAGM

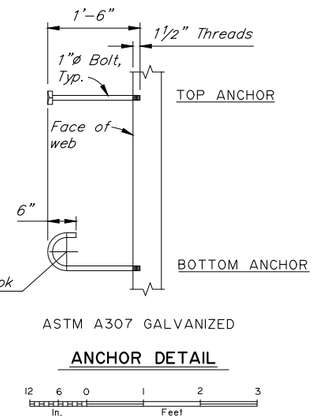
MARK	NOTE	SIZE	NO.	LENGTH	TYPE
D401	E	4	30	6'-3"	STIRRUP
D501	E	5	20	4'-8"	---
D601	E	6	4	27'-0"	---
D701	E	7	8	3'-0"	BENT

BENDING DIAGRAM



D401 D701

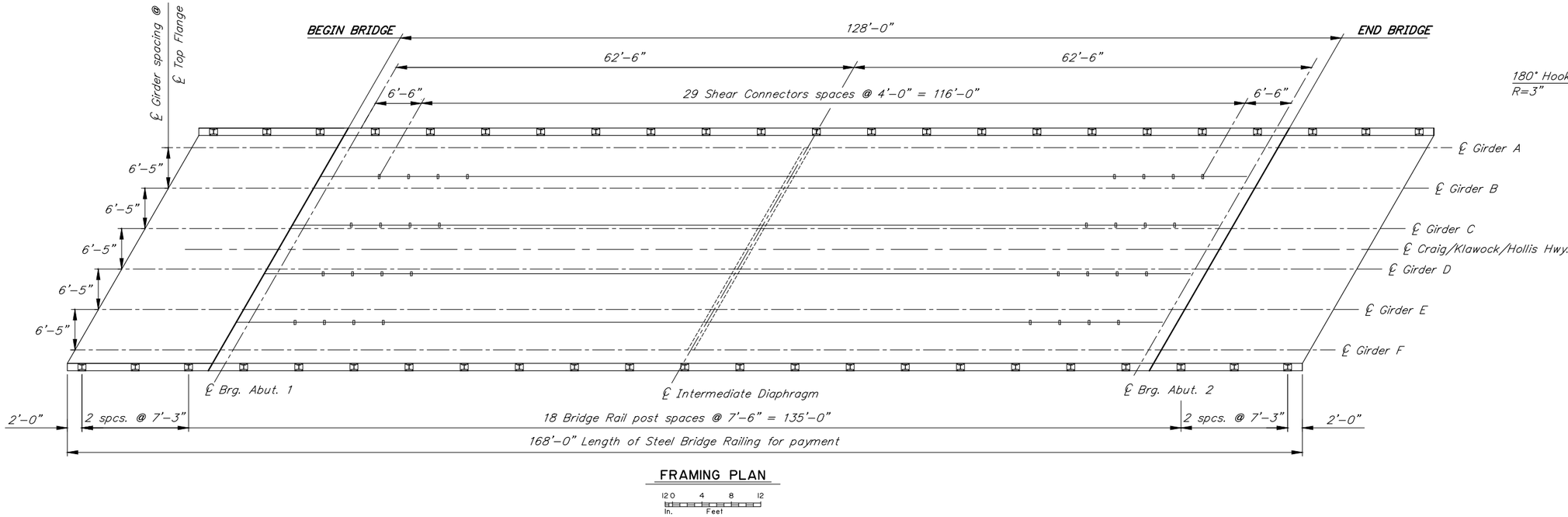
E - Epoxy-Coated



ASTM A307 GALVANIZED

ANCHOR DETAIL

12 6 0 1 2 3
In. Feet



FRAMING PLAN

12 0 4 8 12
In. Feet

DESIGNED BY: Julie Tibor	CHECKED: Nick Murray	**PRELIMINARY PLAN**	STATE OF ALASKA **DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES** BRIDGE SECTION 3132 Channel Drive Juneau, Alaska 99801 907-465-2975
DRAWN BY: Rickie Grantham	CHECKED: Julie Tibor		
QUANTITIES BY: Julie Tibor	CHECKED: Nick Murray		

THREEMILE CREEK BRIDGE

CRAIG/KLAWOCK/HOLLIS HIGHWAY

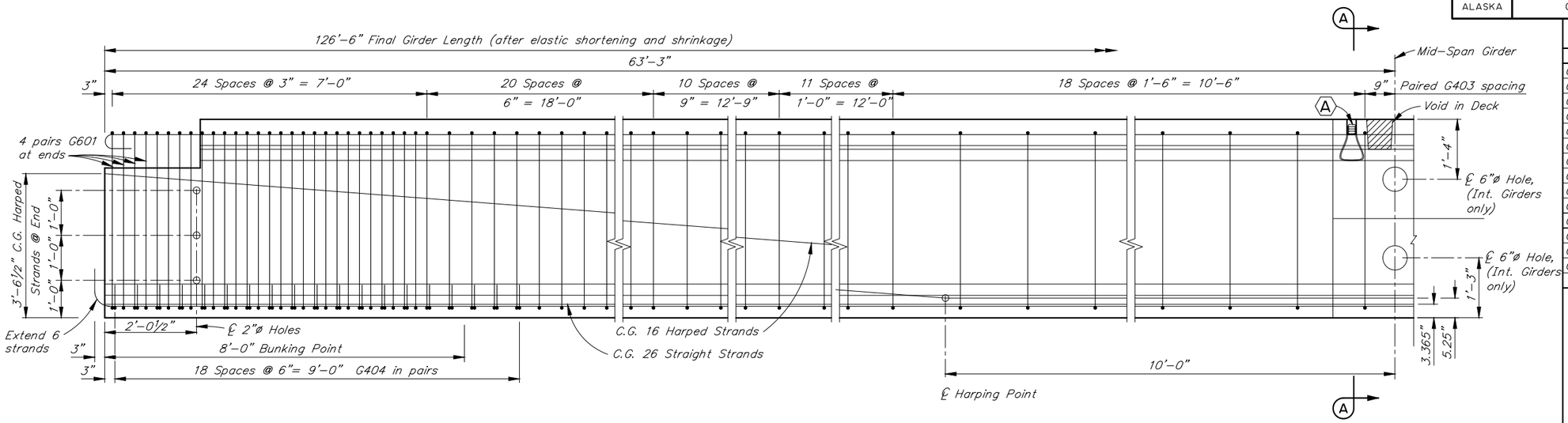
FRAMING PLAN AND TYPICAL SECTION

BRIDGE NO. 480

DWG. NO. 8

\\dot.soa.alaska.gov\shared\BRIDGE\cad\480\480-1-08-FRM Thu, Feb/05/26 10:30am

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0924021/SFHWY00615	2026	N9	30



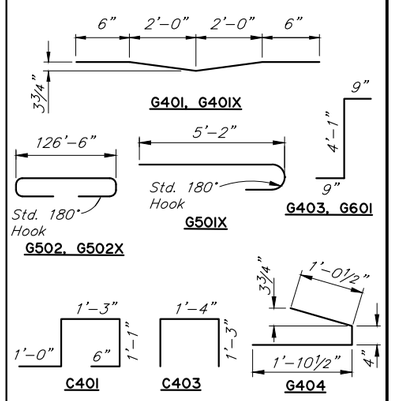
ELEVATION

12 6 0 1 2 3
In. Feet

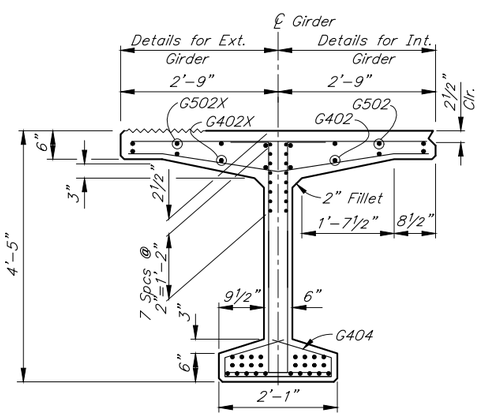
REINFORCING STEEL-ONE GIRDER

MARK	NOTE	SIZE	NO.	LENGTH	TYPE
G401	E	4	184	5'-0"	BENT
G401X	E	4	210	5'-0"	BENT
G402	E,S	4	8	126'-6"	---
G402X	E,S	4	8	126'-6"	---
G403	E	4	336	5'-7"	BENT
G404	E	4	76	3'-3"	BENT
G501	E	5	184	5'-9"	---
G501X	E	5	210	5'-9"	BENT
G502	E,S	5	8	127'-10	BENT
G502X	E,S	5	8	127'-10"	BENT
G601	E	6	16	5'-7"	BENT
C401	E,L,X	4	87	4'-11"	BENT
C402	E,S,X	4	3	127-8"	---
C403	E,X	4	34	3-10"	BENT

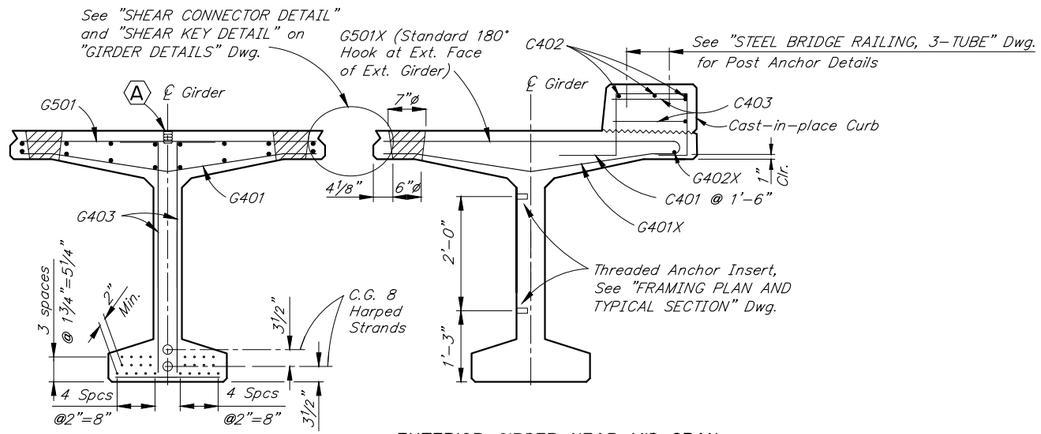
BENDING DIAGRAM



E – Epoxy-Coated
L – Ship 4 loose for diaphragm
S – Length does not include splices. Minimum lap splice length for splice: 2'-0" for #4 bars, 2'-6" for #5 bars.
X – Exterior Girders only



END VIEW



SECTION A-A

EXTERIOR GIRDER NEAR MID SPAN
(Unrelated Reinforcement not shown)

GIRDER NOTES:

Class P Concrete: at Stress Transfer.....f'ci = 7,000 psi
at 28 Days.....f'c = 8,000 psi

½"ø low-relaxation prestressing strands with an ultimate strength of 270 ksi and a cross sectional area of 0.217 in².

Steel stresses: Pretensioning – Jacking Stress 189 ksi
After initial losses 175 ksi
After all losses 145 ksi

One inch clear cover on reinforcing steel unless otherwise noted.

See "FRAMING PLAN AND TYPICAL SECTION" Dwg. for Shear Connector spacing.

Deflect forms to compensate for camber and roadway profile grade.

Galvanize structural steel embedded in girders except for shear connectors.

Omit Shear Key, Shear Key Connector and Deck Void in exterior face of exterior girders.

Cast ends of girders plumb with respect to roadway grade. Install web holes and web anchor inserts parallel to ℄ bearing.

Finish top flange with heavy broom. Roughen the surface under the Curb.

Ⓐ 1"X1'-0" Coil Anchor Insert for vertical adjustment of girders. Recess 2". Prevent concrete from filling hole.

DESIGNED BY: Julie Tibor	CHECKED: Nick Murray		
DRAWN BY: Rickie Grantham	CHECKED: Julie Tibor	**PRELIMINARY PLAN**	
QUANTITIES BY: Julie Tibor	CHECKED: Nick Murray		

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
BRIDGE SECTION
3132 Channel Drive
Juneau, Alaska 99801
907-465-2975

THREEMILE CREEK BRIDGE

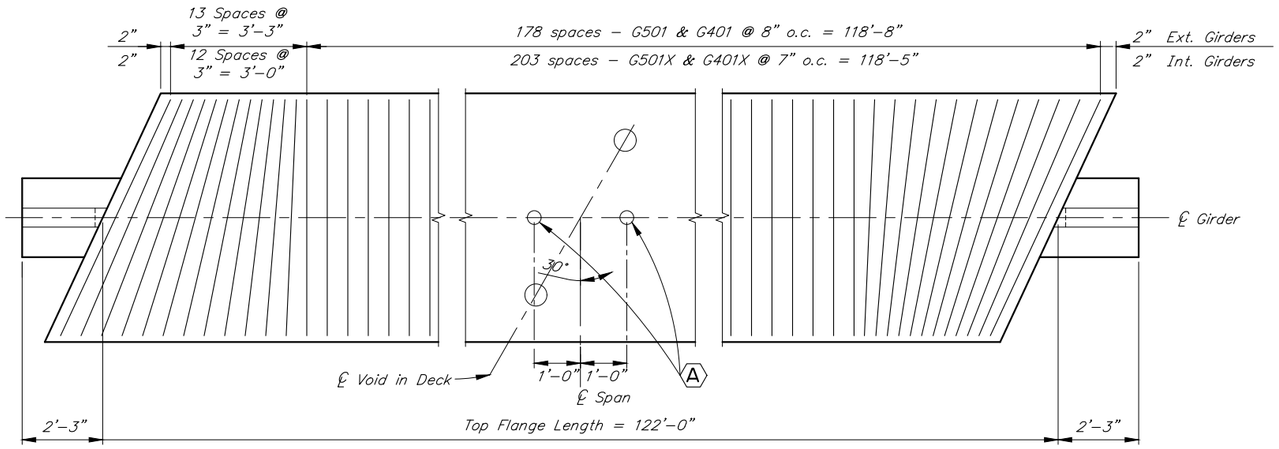
CRAIG/KLAWOCK/HOLLIS HIGHWAY

GIRDERS

BRIDGE NO. 480
DWG. NO. 9

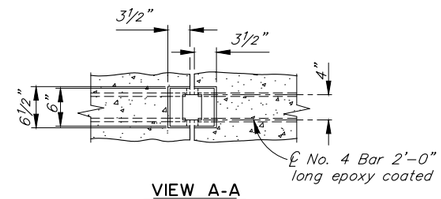
\\dot.soa.alaska.gov\shared\BRIDGE\cad\480\480-1-9-GIR Thu, Feb/05/26 10:31am

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0924021/SFHWY00615	2026	N10	30

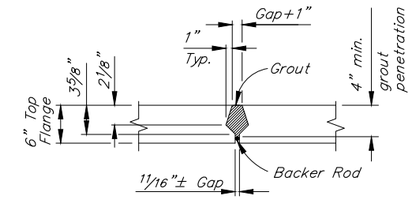


PLAN

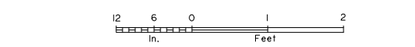
No Scale

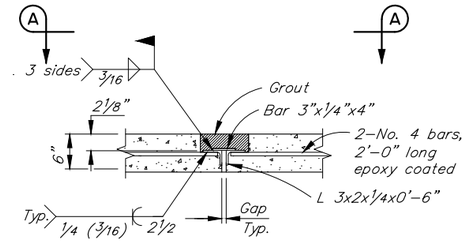


VIEW A-A



SHEAR KEY DETAIL





SHEAR CONNECTOR DETAIL

DESIGNED BY: Julie Tibor	CHECKED: Nick Murray	**PRELIMINARY PLAN**	STATE OF ALASKA **DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES** BRIDGE SECTION 3132 Channel Drive Juneau, Alaska 99801 907-465-2975
DRAWN BY: Rickie Grantham	CHECKED: Julie Tibor		
QUANTITIES BY: Julie Tibor	CHECKED: Nick Murray		

THREEMILE CREEK BRIDGE

CRAIG/KLAWOCK/HOLLIS HIGHWAY

GIRDER DETAILS

BRIDGE NO. 480

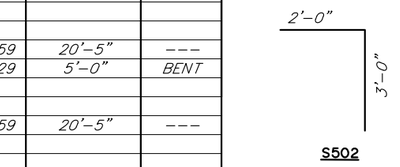
DWG. NO. 10

\\dot.soa.alaska.gov\shared\BRIDGE\cad\480\480-1-10-GIR DET Thu, Feb/05/26 10:31am

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0924021/SFHWY00615	2026	N11	30

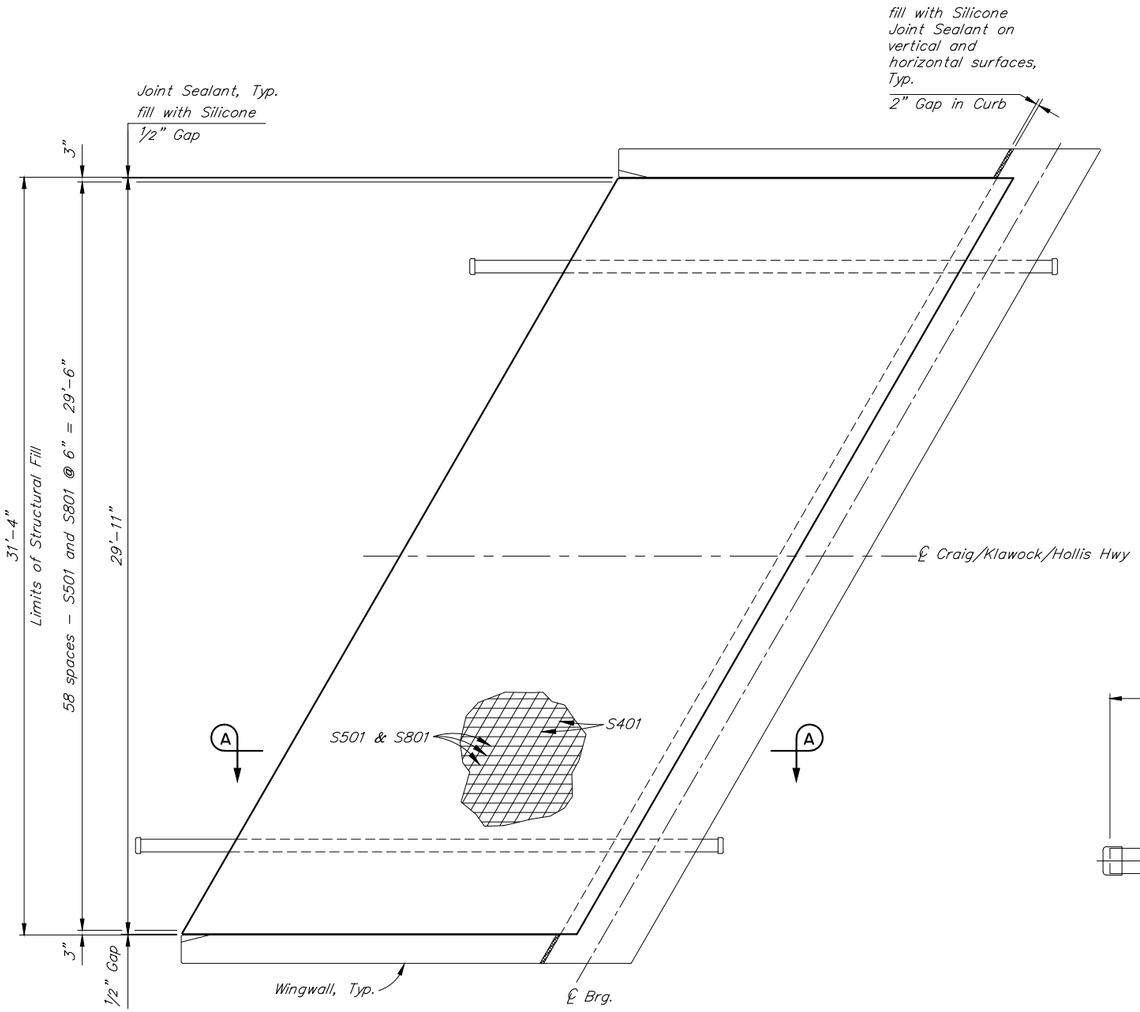
REINFORCING STEEL - ONE SLAB

MARK	NOTE	SIZE	NO.	LENGTH	TYPE	BENDING DIAGRAM
S401	M,S	4	64	34'-7 11/16"	---	
S501		5	59	20'-5"	---	
S502		5	29	5'-0"	BENT	
S801		8	59	20'-5"	---	



S502

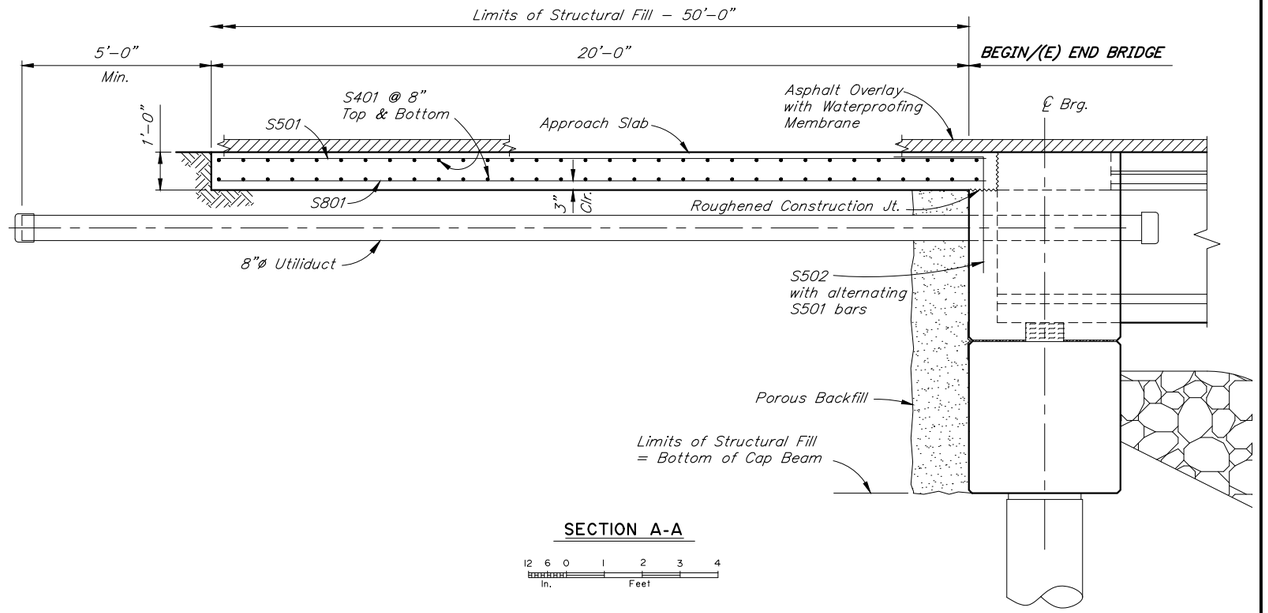
M – Match cross slope
S – Splice permitted. Splice length not included



PLAN

(Abutment 1 shown Abutment 2 similar)

12 0 4 8
In. Feet



SECTION A-A

12 6 0 1 2 3 4
In. Feet

DESIGNED BY: Julie Tibor	CHECKED: Nick Murray	PRELIMINARY PLAN	STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES BRIDGE SECTION 3132 Channel Drive Juneau, Alaska 99801 907-465-2975
DRAWN BY: Rickie Grantham	CHECKED: Julie Tibor		
QUANTITIES BY: Julie Tibor	CHECKED: Nick Murray		

THREEMILE CREEK BRIDGE

CRAIG/KLAWOCK/HOLLIS HIGHWAY

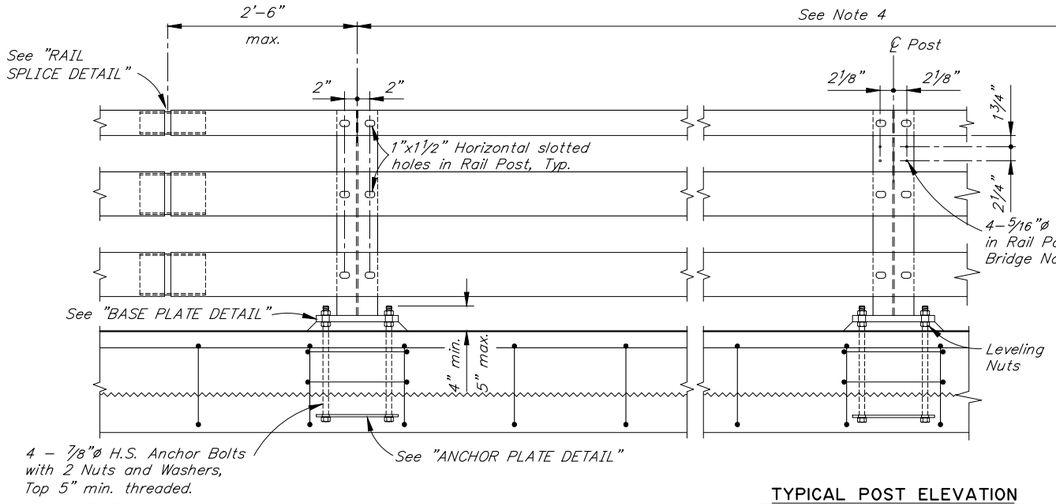
APPROACH SLABS

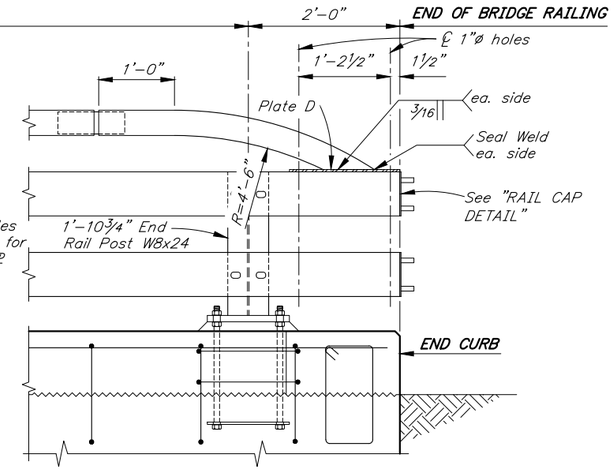
BRIDGE NO. 480

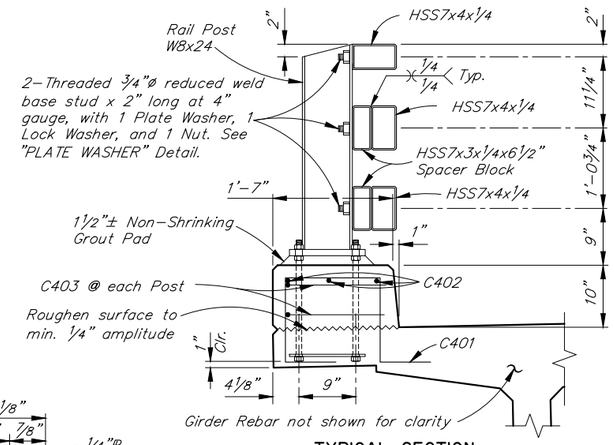
DWG. NO. 11

\\dot.soa.alaska.gov\shared\BRIDGE\cad\480\480-1-11-APPR Thu, Feb/05/26 10:31am

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0924021/SFHWY00615	2026	N12	30

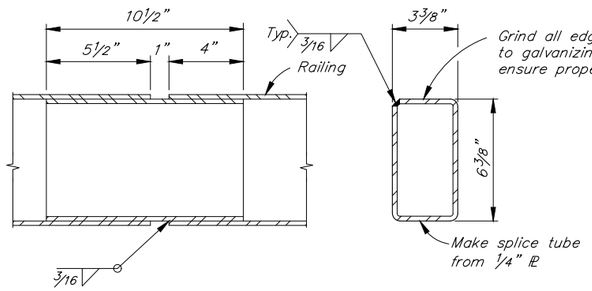




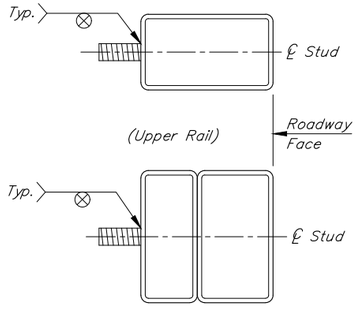


TYPICAL SECTION

EXPANSION JOINT



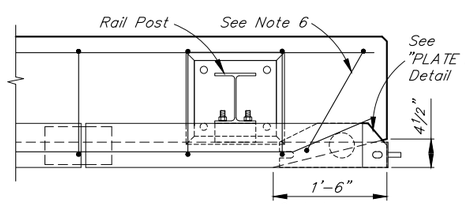
TYPICAL POST ELEVATION



RAILING STUD DETAIL

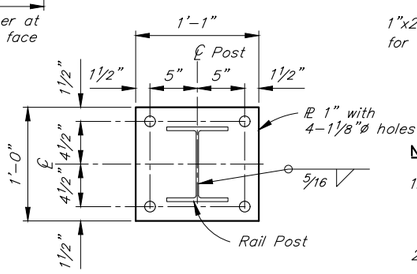
(Lower and Middle Rail)
No Scale

ELEVATION

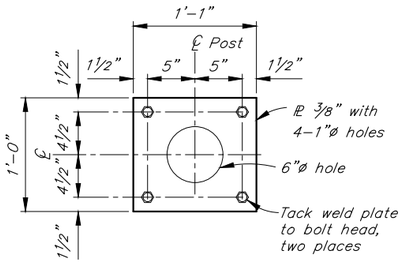


PLAN

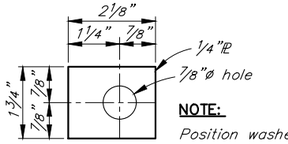
END POST DETAIL



BASE PLATE DETAIL



ANCHOR PLATE DETAIL



NOTE:
Position washer to completely cover slotted hole.

PLATE WASHER

No Scale

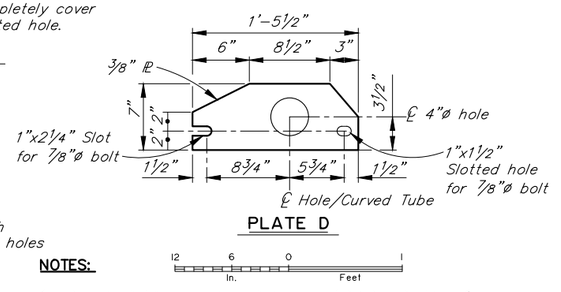
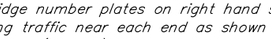


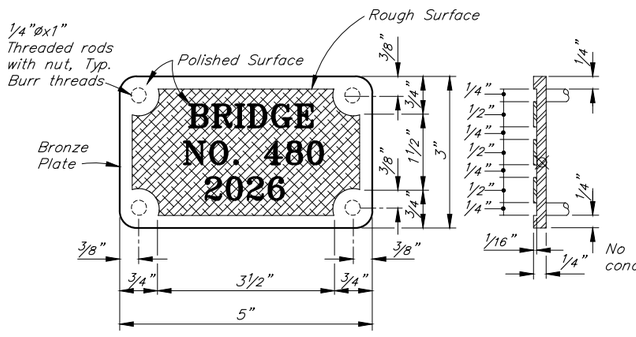
PLATE D



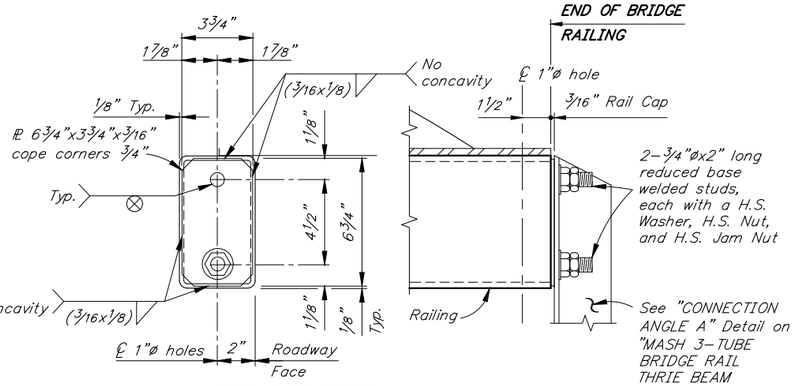
NOTES:

1. Locate bridge number plates on right hand side of approaching traffic near each end as shown on "GENERAL LAYOUT" Dwg. (2 total).
2. Furnish bridge number plates. Use "Century" type style lettering. Use studs and nuts that conform to UNS C65100 or C65500. Braze ¼"ø threaded rod to back of plate with nut – 4 required. Use tamper proof nuts.
3. Provide railing expansion joints at 50'–0" maximum intervals. Railing shall be continuous over 2 posts minimum. Railing expansion joints are required in rail panels that span bridge expansion joints.
4. See "FRAMING PLAN AND TYPICAL SECTION" Dwg. for rail post spacing.
5. Install bridge rail posts plumb.
6. Adjust reinforcing to accommodate curb taper.
7. Conform to G–33.01 for "MASH 3–TUBE BRIDGE RAIL THRIE BEAM TRANSITION" Dwg. of the Standard Plans for the Thrie Beam Transition details.
8. Steel Bridge Railing, 3–Tube is designed to MASH TL–4 and crash tested per the 2020 publication.

RAIL SPLICE DETAIL



BRONZE BRIDGE NO. PLATE



RAIL CAP DETAIL

DESIGNED BY: Julie Tibor	CHECKED: Nick Murray	**PRELIMINARY PLAN**	STATE OF ALASKA **DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES** BRIDGE SECTION 3132 Channel Drive Juneau, Alaska 99801 907–465–2975
DRAWN BY: Rickie Grantham	CHECKED: Julie Tibor		
QUANTITIES BY: Julie Tibor	CHECKED: Nick Murray		

THREEMILE CREEK BRIDGE

CRAIG/KLAWOCK/HOLLIS HIGHWAY

STEEL BRIDGE RAILING, 3–TUBE

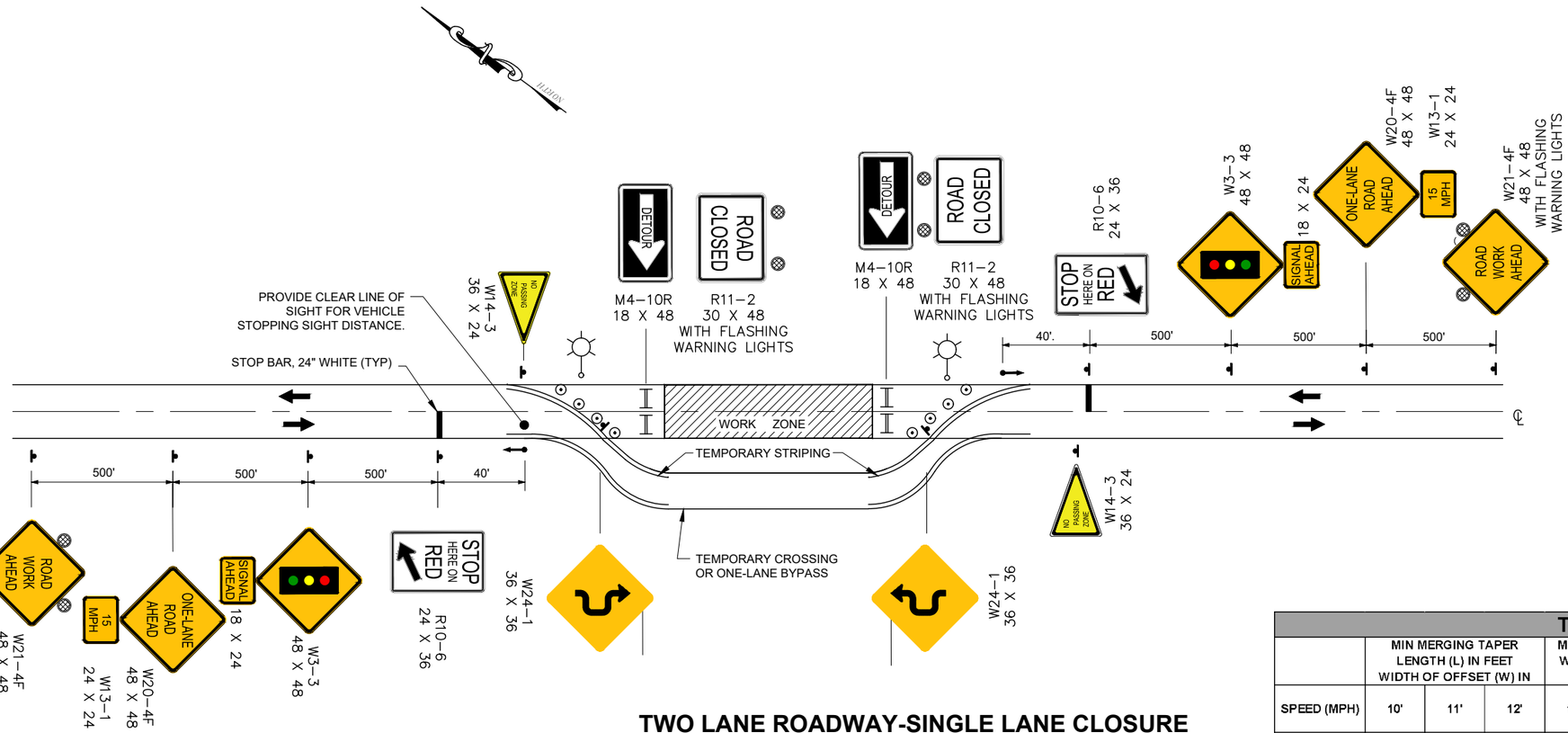
BRIDGE NO. 480

DWG. NO. 12

\\dot.soa.alaska.gov\shared\BRIDGE\cad\480_480-1-12-RAIL Thu, Feb/05/26 10:31am

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	SFHWY00615 / 0924021	2026	T1	30



LEGEND

- SIGN
- CONE
- DRUM, WITH WARNING LIGHT
- TYPE III BARRICADE
- FLAGGING STATION
- TEMPORARY TRAFFIC SIGNAL
- BALLOON LIGHT
- WARNING LIGHT

TWO LANE ROADWAY-SINGLE LANE CLOSURE SIGNAL CONTROL

NTS

NOTE:
SEE SHEET M1 FOR TEMPORARY BRIDGE PLAN & PROFILE.

TRAFFIC CONTROL NOTES

1. MINIMUM OF ONE LANE SHALL REMAIN OPEN AT ALL TIMES IN WORK AREAS.
2. TEMPORARY DRIVING LANES SHALL HAVE A MINIMUM WIDTH OF 10'-0".
3. CONSTRUCTION SIGNING SHALL BE IN PLACE ONLY WHEN THE CONDITIONS EXIST FOR WHICH THE SIGNS ARE INTENDED.
4. WARNING LIGHTS SHALL BE USED TO MARK BARRICADES, PORTABLE BARRIERS OR ANY OTHER CHANNELIZING DEVICE AT NIGHT AS DIRECTED BY THE ENGINEER. THE FIRST DEVICE FACING THE DIRECTION OF TRAFFIC SHALL BE EQUIPPED WITH A FLASHING WARNING LIGHT, ALL OTHERS SHALL BE EQUIPPED WITH STEADY-BURN WARNING LIGHTS.
5. IT IS THE INTENT OF THIS TRAFFIC CONTROL PLAN (TCP) TO ILLUSTRATE SOME, NOT ALL, OF THE TRAFFIC CONTROL SETUPS WHICH WILL BE REQUIRED ON THIS PROJECT. PLANS FOR CONFIGURATIONS NOT COVERED BY THIS TCP SHALL BE CREATED BY THE CONTRACTOR AND SUBMITTED TO THE ENGINEER FOR APPROVAL. WHERE APPROPRIATE, THEY SHALL INCORPORATE APPLICABLE DETAILS FROM THESE SHEETS.
6. ALL TRAFFIC CONTROL PLANS SUBMITTED BY THE CONTRACTOR SHALL BE NUMBERED. ALL TRAFFIC CONTROL PLANS WHICH REFERENCE A TYPICAL APPLICATION AS DESCRIBED IN THE MUTCD SHALL REFERENCE THE TYPICAL APPLICATION. EXAMPLE: TCP 3, MUTCD TA-10. TRAFFIC CONTROL PLANS SUBMITTED BY THE CONTRACTOR SHALL CONFORM TO THE REQUIREMENTS OF THE ALASKA TRAFFIC MANUAL AND BE SITE SPECIFIC.
7. THE CONTRACTOR SHALL PROVIDE ACCESS THROUGH THE PROJECT TO EMERGENCY VEHICLES AT ALL TIMES.
8. THE TEMPORARY SIGNAL LIGHT SHALL BE SET UP TO CONFORM TO ALASKA STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, SECTION 660.
9. STAGED EQUIPMENT, MATERIAL STOCKPILES, AND TRAFFIC CONTROL DEVICES SHALL BE PLACED IN LOCATIONS WHICH MINIMIZE LINE-OF-SIGHT OBSTRUCTIONS BETWEEN TEMPORARY STOP BARS AND APPROACHING VEHICLES.
10. USE 15' SPACING FOR DRUMS.
11. ALL TRAFFIC CONTROL AND TRAFFIC MAINTENANCE SHOWN ON THIS SHEET SHALL BE CONSIDERED WITHIN THE LIMITS OF TEMPORARY CROSSING.

TCP SETUP TABLE

	MIN MERGING TAPER LENGTH (L) IN FEET WIDTH OF OFFSET (W) IN			MIN NUMBER OF DEVICES WIDTH OF OFFSET (W) IN FEET			MAX DEVICE SPACING IN FEET		BUFFER SPACE	BUFFER SPACE PER THE ATTSA GUIDE
SPEED (MPH)	10'	11'	12'	10'	11'	12'	ALONG TAPER	ALONG TANGENT	(FT)	(FT)
										35 FT FOR 20 MPH
25 OR BELOW	105	115	125	6	6	6	25	50	155	55
30	150	165	180	6	7	7	30	60	200	85
35	205	225	245	7	8	8	35	70	250	120
40	270	295	320	8	9	9	40	80	305	170
45	450	495	540	11	12	13	45	90	360	220
50	500	550	600	11	12	13	50	100	425	280
55	550	605	660	11	12	13	55	110	495	335
60	600	660	720	11	12	13	60	120	570	415

TRAFFIC CONTROL PLAN

50% REVIEW

PLANS DEVELOPED BY:: STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES, SOUTHCOAST REGION, 6860 GLACIER HWY, JUNEAU, AK 99801 (907)465-1763
Q:\Pow\SFHWY00615\RE\Planset\SFHWY00615_T1-T1 Wed, Feb/04/26 05:16pm