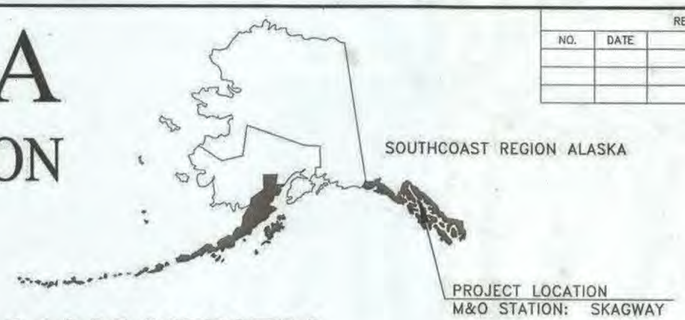
STATE OF ALASKA

DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES



REVISIONS		
NO.	DATE	DESCRIPTION

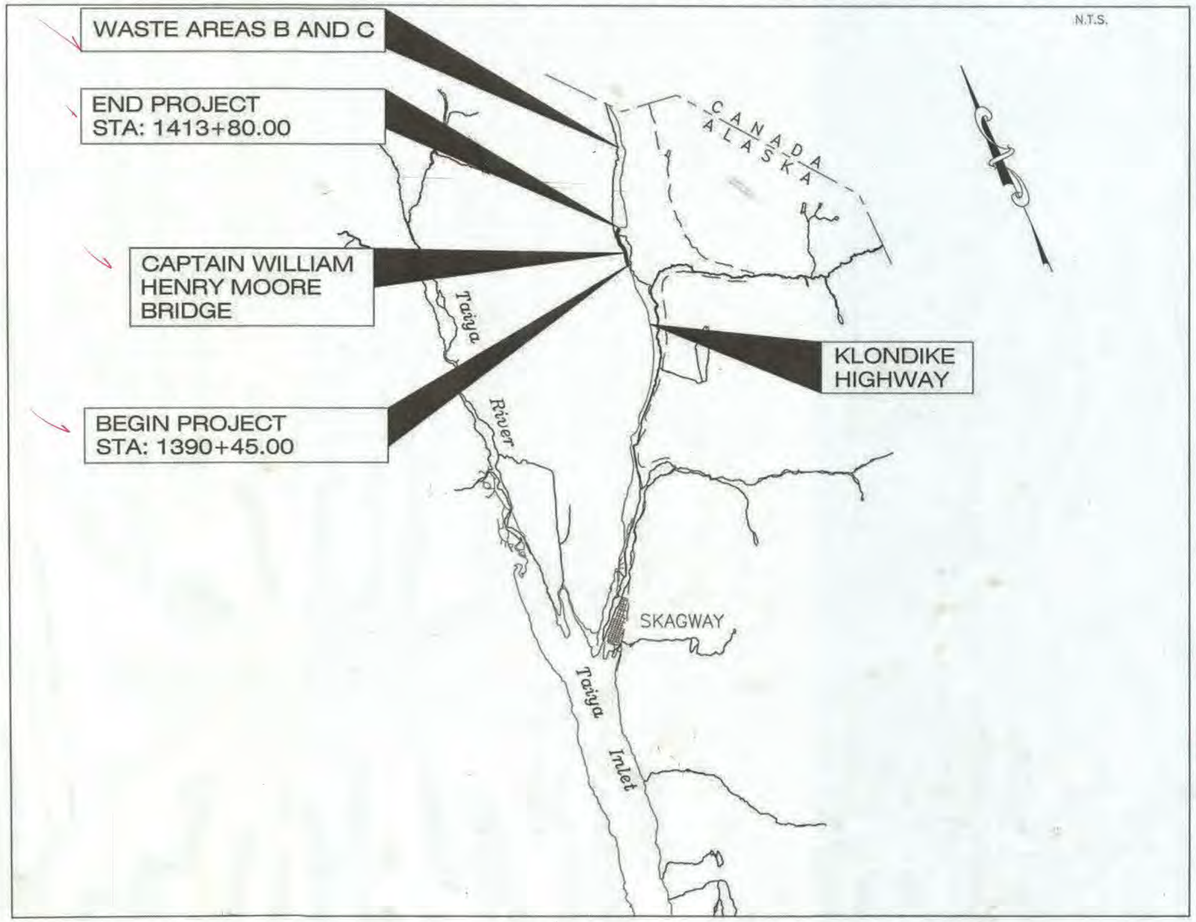
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL "A" SHEETS
ALASKA	0972016/Z684590000	2016	A1	4
			PLAN SET TOTAL	59

CDS ROUTE: 299500	MILEPOINT: 9.293 TO 9.800
LATITUDE: N 59° 35' 12"	LONGITUDE: W 135° 11' 52"

SKAGWAY - REPLACE CAPTAIN WILLIAM HENRY MOORE BRIDGE
PROJECT NO. 0972016/Z684590000

AS BUILTS

GRADING, DRAINAGE, PAVING, PARKING, SIGNING & STRIPING



VICINITY MAP

The undersigned hereby certifies that this duplicated document is an exact and true copy of the original.

Cody Stallman

March 30, 2017

JOHN WAISANEN, PROJECT ENGINEER R:M 2019 6/9/20

HAMILTON CONSTRUCTION

BEGIN WORK: 4/24/17

END WORK: 10/16/2019

ANDREW CONRAD ADOT/PF PROJECT ENGINEER 2017

EMILY DELANEY ADOT/PF PROJECT ENGINEER 2018

DESIGN DESIGNATIONS	
FUNCTIONAL CLASS	RURAL OTHER PRINCIPAL ARTERIAL
ADT (2014)	370
ADT (2028)	380
ADT (2038)	390
DHV (33.4%) EXISTING YEAR	120
DHV (33.4%) DESIGN YEAR (2028)	130
DHV (33.4%) DESIGN YEAR (2038)	130
PERCENT TRUCKS (T)	21.4%
DIRECTIONAL SPLIT (D)	55/45
DESIGN SPEED (V)	45 MPH
DESIGN ESAL'S (20 YEARS)	1,550,000

DESIGN DESIGNATIONS RCC	
FUNCTIONAL CLASS	RURAL OTHER PRINCIPAL ARTERIAL
ADT (2014)	370
ADT (2056)	410
ADT (2093)	450
DHV (33.4%) EXISTING YEAR	120
DHV (33.4%) DESIGN YEAR (2056)	140
DHV (33.4%) DESIGN YEAR (2093)	150
PERCENT TRUCKS (T)	21.4%
DIRECTIONAL SPLIT (D)	55/45
DESIGN SPEED (V)	45 MPH
DESIGN ESAL'S (75 YEARS) (RCC)	6,250,000

PROJECT SUMMARY	
KLONDIKE HIGHWAY MP 11 TO MP 11.5	
WIDTH OF PAVEMENT (WIDTH OF RCC)	36-FEET (40-FEET)
LENGTH OF GRADING	0.50 MILES
LENGTH OF PAVING	0.50 MILES
LENGTH OF PROJECT	0.50 MILES

USE THESE PLANS IN CONJUNCTION WITH THE STATE OF ALASKA STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, 2015 EDITION AND THE PROJECT SPECIAL PROVISIONS.

PLANS DEVELOPED BY: DOWL
5368 COMMERCIAL BLVD. - JUNEAU, AK 99801
907-780-3533 - #AECL848

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES

6/9/20
R:M CONSULTANTS PROJECT ENGINEER

APPROVED:

L. PAT CARROLL, P.E.
REGIONAL PRECONSTRUCTION ENGINEER
CONCUR:

DATE 8/17/16

MICHAEL J. COFFEY
DIRECTOR, SOUTHCOAST REGION

DATE 8/17/16

FOR

for

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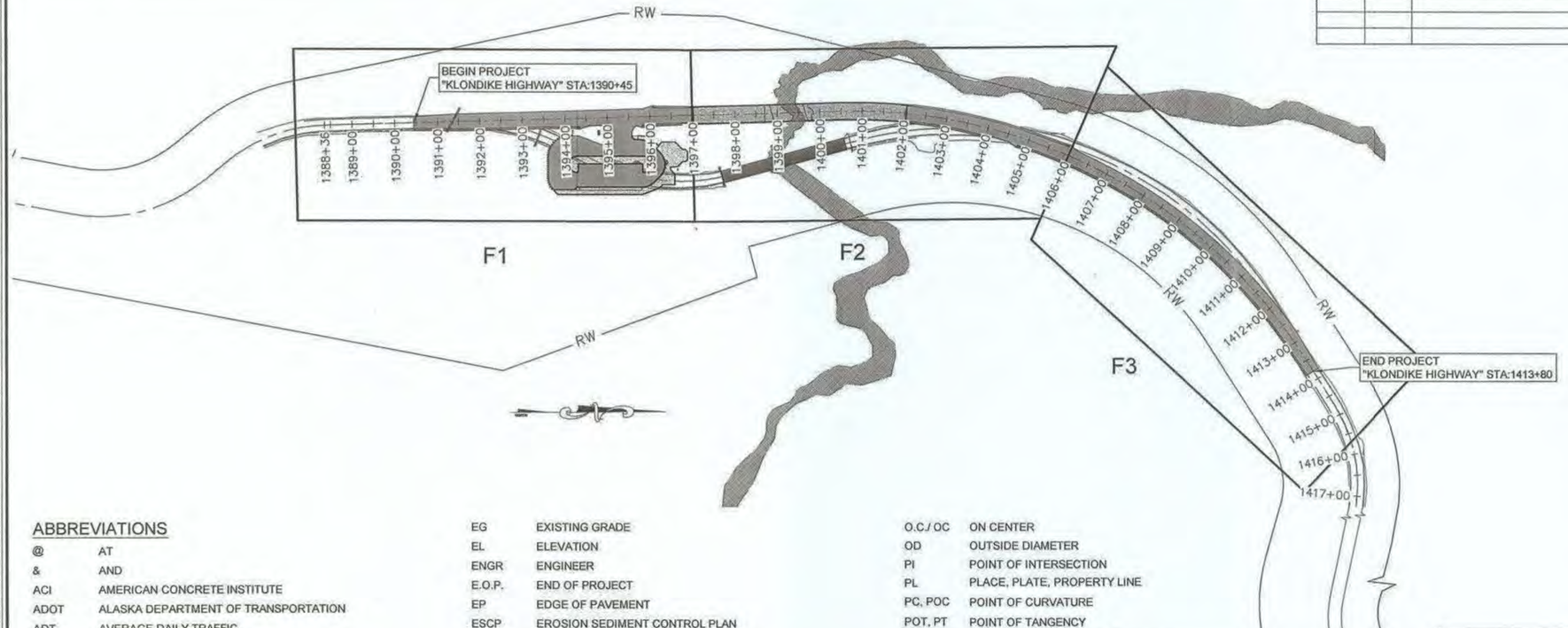
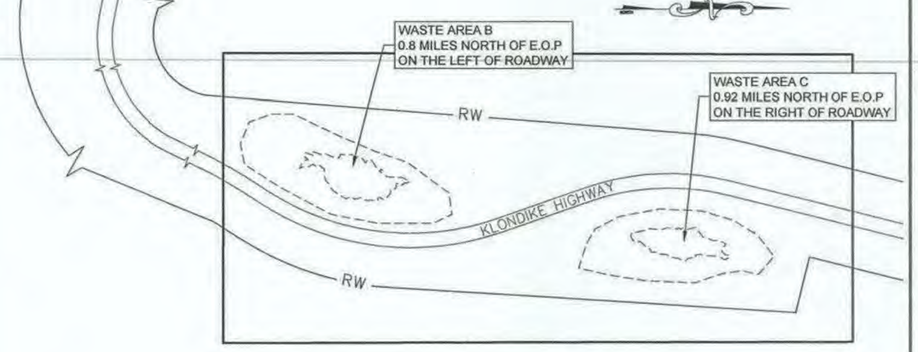
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0972016/Z684590000	2016	A2	59



INDEX OF SHEETS

ABBREVIATIONS

@	AT
&	AND
ACI	AMERICAN CONCRETE INSTITUTE
ADOT	ALASKA DEPARTMENT OF TRANSPORTATION
ADT	AVERAGE DAILY TRAFFIC
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
APPROX	APPROXIMATE
ATB	ASPHALT TREATED BASE
BFS	BEGIN FULL SUPERELEVATION
BM	BENCH MARK
B.O.P.	BEGINNING OF PROJECT
BOT	BOTTOM
BRG	BEARING
BVCE	BEGIN VERTICAL CURVE ELEVATION
BVCS	BEGIN VERTICAL CURVE STATION
CC	CENTER TO CENTER
C&G	CURB AND GUTTER
CJ	CONSTRUCTION JOINT
CL	CENTER LINE
CLR	CLEAR
CMP	CORRUGATED METAL PIPE
CSP	CORRUGATED STEEL PIPE
CMU	CONCRETE MASONRY UNIT
CONC	CONCRETE
CONN	CONNECTION
CONT	CONTINUOUS, CONTINUATION
CPP	CORRUGATED POLYETHYLENE PIPE, TYPE S
CSP	CORRUGATED STEEL PIPE
CTE	CONNECT TO EXISTING
CTR	CENTER
CY	CUBIC YARD
DET	DETAIL
DHV	DESIGN HOURLY VOLUME
DIA OR Ø	DIAMETER
DOT&PF	DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
DWG	DRAWING
E	EAST
EA	EACH
EFS	END FULL SUPERELEVATION
EG	EXISTING GRADE
EL	ELEVATION
ENGR	ENGINEER
E.O.P.	END OF PROJECT
EP	EDGE OF PAVEMENT
ESCP	EROSION SEDIMENT CONTROL PLAN
EXP	EXPOSED, EXPANSION
EXST, EX	EXISTING
FDN	FOUNDATION
FG	FINAL GRADE
FL	FLOW LINE (ELEV)
FT	FOOT OR FEET
FTG	FOOTING
GAL	GALLONS
GB	GRADE BREAK
GERCC	GROUT ENRICHED ROLLER COMPACTED CONCRETE
HDPE	HIGH DENSITY POLYETHYLENE
HMA	HOT MIX ASPHALT
HORIZ	HORIZONTAL
IN	INCH
INVT, INV	INVERT
J, JB	JUNCTION BOX
JT	JOINT
KIP	1000 POUNDS-FORCE
L	LEFT, LENGTH
LB	POUNDS
LF	LINEAR FOOT
LT	LEFT
LVC	LENGTH OF VERTICAL CURVE
MAX	MAXIMUM
ME	MATCH EXISTING
MEP	MATCH EXISTING PAVEMENT
MIN	MINIMUM
MISC	MISCELLANEOUS
MTE	MATCH TO EXISTING
MUTCD	MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES
MDC	DEPRESSED CURB
N	NORTH
NO, #	NUMBER, NUMBERING
NOM	NOMINAL
NTS	NOT TO SCALE
O.C./ OC	ON CENTER
OD	OUTSIDE DIAMETER
PI	POINT OF INTERSECTION
PL	PLACE, PLATE, PROPERTY LINE
PC, POC	POINT OF CURVATURE
POT, PT	POINT OF TANGENCY
PRC	POINT OF REVERSE CURVE
PST	PERFORATED STEEL TUBE
PVC	POLYVINYL CHLORIDE PLASTIC
PVI	POINT OF VERTICAL INTERSECTION
PVMT	PAVEMENT
R, RAD	RADIUS
RCC	ROLLER COMPACTED CONCRETE
RD	ROAD
REF	REFER OR REFERENCE
REINF	REINFORCED, REINFORCING, REINFORCED
REQD	REQUIRED
ROW, R/W	RIGHT-OF-WAY
RT	RIGHT
S	SOUTH
SCH	SCHEDULE
SH, SHT	SHEET
SHLD	SHOULDER
SPECS	SPECIFICATIONS
STA	STATION
STD	STANDARD
T	SQUARE STEEL TUBE
TBC	TOP BACK OF CURB
TBG	TOP BACK OF GUTTER
TSW	TOP OF SIDEWALK
TCE	TEMPORARY CONSTRUCTION EASEMENT
TW	TOP OF WALL
TYP	TYPICAL
VBS	VEGETATED BUFFER STRIP
VC	VERTICAL CURVE
VERT, VT	VERTICAL
VPI	VERTICAL POINT OF INTERSECTION
W	WEST



P5

THE FOLLOWING STANDARD DRAWINGS APPLY TO THIS PROJECT:

D-01.02	G-00.02	I-20.20	S-00.11	T-06.00
D-04.21	G-04.10S	I-22.10	S-05.01	T-20.03
	G-09.04S	I-30.10	S-20.10	T-21.03
	G-10.01	M-13.01	S-30.03	T-22.03
	G-20.11	M-16.01	S-31.01	
	G-28.00		S-32.00	
	G-31.01			

6/9/20

PLANS DEVELOPED BY:
DOWL
5368 COMMERCIAL BLVD.
JUNEAU, AK 99801
(907) 780-3533
#AECL848

STATE OF ALASKA
49TH
NAOMI R. HOBBS
CE 9959
REGISTERED PROFESSIONAL ENGINEER
8-17-2016

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SKAGWAY - REPLACE CAPTAIN WILLIAM HENRY MOORE BRIDGE

INDEX, SHEET LAYOUT, AND ABBREVIATIONS

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NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0972016/Z684590000	2016	A3	59

	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	
MICELLANEOUS CENTERLINE	10+00	
STATION EQUATION	"L"48+97.23 POT BK= "O"48+97.23 PC AHD	
PROJECT RIGHT-OF-WAY LINE	RW	
EXISTING RIGHT-OF-WAY LINE		
EXISTING PROPERTY LINE		
CONTROLLED ACCESS LINE	C/A	
EXISTING EASEMENT LINE		
PROPOSED EASEMENT LINE		
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.	
MEANDER LINE	M1 M2 M3	

	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, SD, MH, P-10	
FIBER OPTIC LINE		
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		
DITCH CENTERLINE		
TREE LINE		
WATER BOUNDARY		
ORDINARY HIGH WATER LINE		
FLOW CENTERLINE		
FLOW DIRECTION		

	EXISTING	PROPOSED
ROADWAY/PAVEMENT EDGE		
ROADWAY/PAVEMENT HATCH		
RCC HATCH		
FENCE		
CURB AND GUTTER		
DETECTABLE WARNINGS		
GUARDRAIL		
GUARDRAIL END SECTION		
CULVERT PIPE		
SIGN		
MAILBOX	MB	MB
RAILROAD TRACKS		
RAILROAD DEVICES	CROSS-BUCK, FLASHING LIGHT	CANTILEVER, SWITCH
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	F	
SATELLITE DISH	SAT. DISH	
TEST HOLE	TH	
CONIFER TREE		
DECIDUOUS TREE		
GRAVE		
THERMOSIPHON		
PARKING METER		
VEHICLE PLUG-IN		
DELINEATOR/GUIDE MARKER		
BOULDER		

	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		N
RIGID METAL CONDUIT		

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LAYOUT | A3
DESIGNED | HOBBS
CHECKED | NOBLE
DRAFTED | WESTPHAL

AJ 6/9/20

PLANS DEVELOPED BY:
DOWL
5368 COMMERCIAL BLVD,
JUNEAU, AK 99801
(907) 780-3533
#AECL848

STATE OF ALASKA 49TH — NAOMI R. HOBBS CE 9959 REGISTERED PROFESSIONAL ENGINEER
8-17-2016

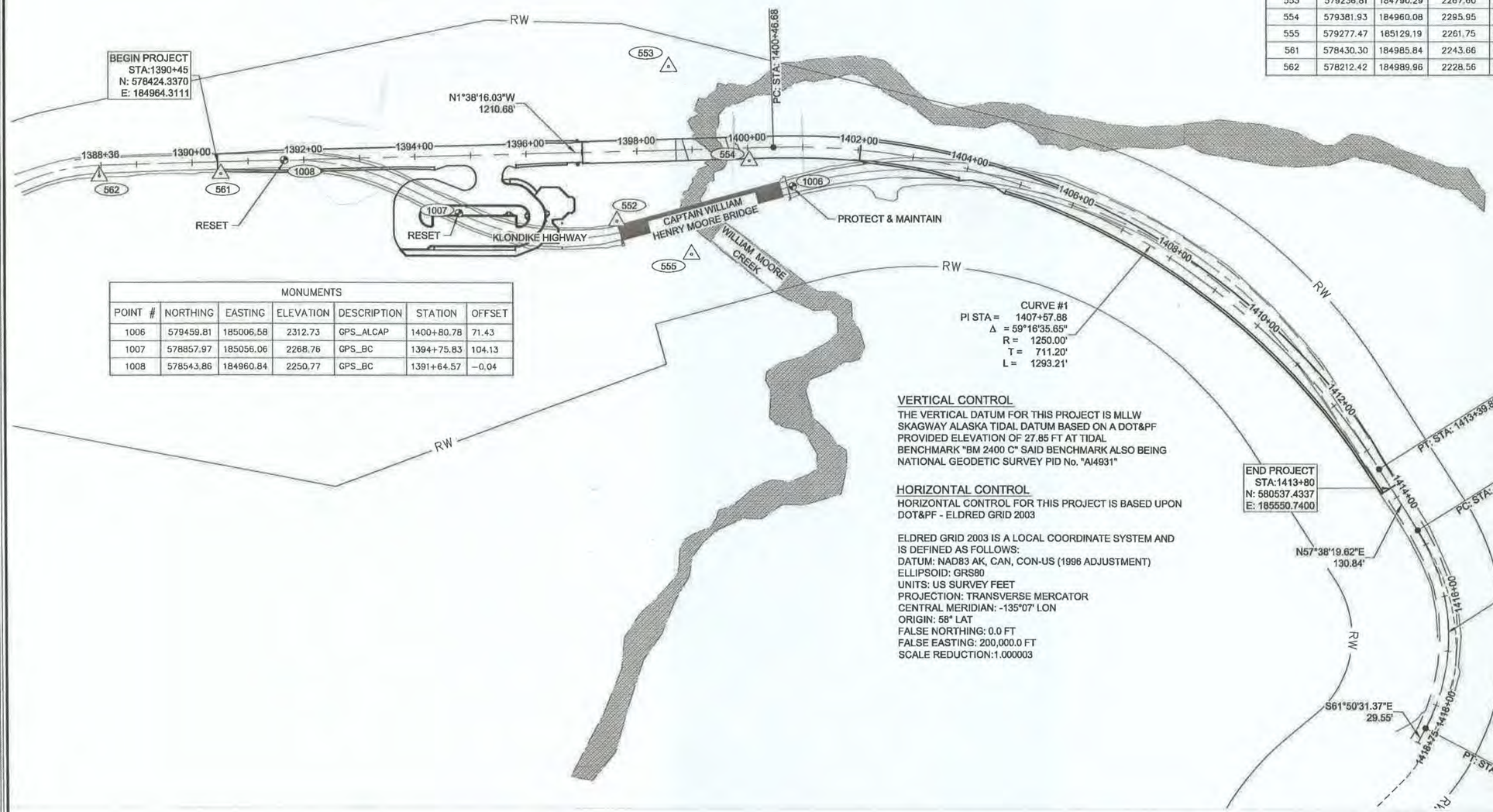
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SKAGWAY - REPLACE CAPTAIN WILLIAM HENRY MOORE BRIDGE

LEGEND AND SYMBOLS

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0972016/Z684590000	2016	A4	59

SURVEY CONTROL						
POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION	STATION	OFFSET
552	579142.70	185069.40	2289.10	DOWL-1	1397+60.05	125.60
553	579236.81	184790.29	2267.60	DOWL-2	1398+62.11	-150.71
554	579381.93	184960.08	2295.95	DOWL-3	1400+02.32	23.17
555	579277.47	185129.19	2261.75	DOWL-4	1398+93.06	189.22
561	578430.30	184985.84	2243.66	DOWL-9	1390+50.34	21.71
562	578212.42	184989.96	2228.56	DOWL-10	N/A	N/A



MONUMENTS						
POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION	STATION	OFFSET
1006	579459.81	185006.58	2312.73	GPS_ALCAP	1400+80.78	71.43
1007	578857.97	185056.06	2268.76	GPS_BC	1394+75.83	104.13
1008	578543.86	184960.84	2250.77	GPS_BC	1391+64.57	-0.04

VERTICAL CONTROL

THE VERTICAL DATUM FOR THIS PROJECT IS MLLW SKAGWAY ALASKA TIDAL DATUM BASED ON A DOT&PF PROVIDED ELEVATION OF 27.85 FT AT TIDAL BENCHMARK "BM 2400 C" SAID BENCHMARK ALSO BEING NATIONAL GEODETIC SURVEY PID No. "AI4931"

HORIZONTAL CONTROL

HORIZONTAL CONTROL FOR THIS PROJECT IS BASED UPON DOT&PF - ELDRED GRID 2003

ELDRED GRID 2003 IS A LOCAL COORDINATE SYSTEM AND IS DEFINED AS FOLLOWS:
DATUM: NAD83 AK, CAN, CON-US (1996 ADJUSTMENT)
ELLIPSOID: GRS80
UNITS: US SURVEY FEET
PROJECTION: TRANSVERSE MERCATOR
CENTRAL MERIDIAN: -135°07' LON
ORIGIN: 58° LAT
FALSE NORTHING: 0.0 FT
FALSE EASTING: 200,000.0 FT
SCALE REDUCTION:1.000003

0 100' 200'
SCALE IN FEET

MONUMENT NOTES:

1. IF ANY PAIR OF CONTROL POINTS DISAGREES FROM PUBLISHED VALUE BY MORE THAN 1:10,000 HORIZONTALLY OR VERTICALLY THEN A THIRD NETWORK POINT MUST BE TIED TO ASCERTAIN WHICH POINT IS IN ERROR OR HAS BEEN DISTURBED.
2. WHETHER LISTED OR NOT, ALL PROPERTY MARKERS, OR ACCESSORIES THAT WILL BE DISTURBED OR BURIED SHALL BE REFERENCED PRIOR TO BEING DISTURBED, AND RE-ESTABLISHED IN THEIR ORIGINAL POSITION AND A RECORD OF MONUMENT FORM IN ACCORDANCE WITH A.S.34.65.040 SHALL BE SUBMITTED TO THE CONSTRUCTION ENGINEER FOR REVIEW PRIOR TO RECORDING. COORDINATE VALUES LISTED ARE FOR INFORMATIONAL PURPOSES, AND SHOULD ONLY BE USED AS A LAST RESORT FOR RESETTING MONUMENTS AND CORNERS.

6/9/20

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SKAGWAY - REPLACE CAPTAIN WILLIAM HENRY MOORE BRIDGE

SURVEY CONTROL

DATE 10/12/2016 15:05 | LAYOUT A4 | DESIGNED HOBBS | CHECKED NOBLE | DRAFTED WESTPHAL

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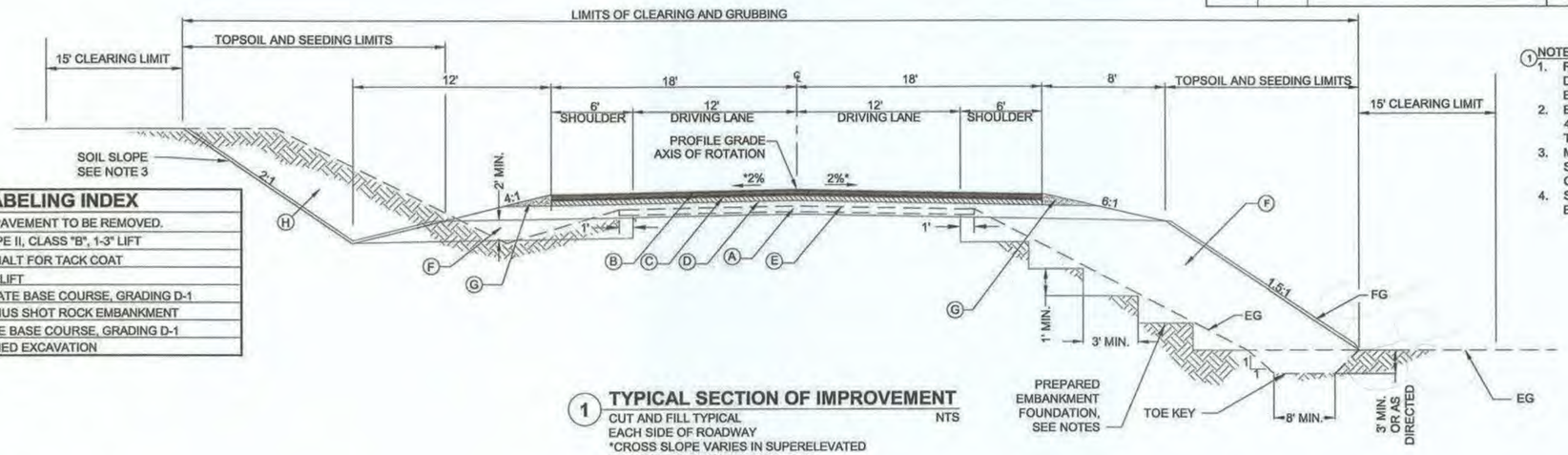
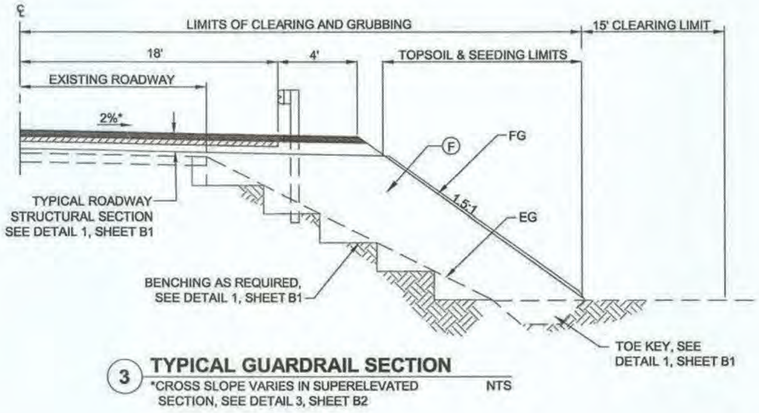


LABELING INDEX	
Ⓐ	EXISTING PAVEMENT TO BE REMOVED.
Ⓑ	3" HMA, TYPE II, CLASS "B", 1-3" LIFT
Ⓒ	STE-1 ASPHALT FOR TACK COAT
Ⓓ	2" ATB,1- 2" LIFT
Ⓔ	6" AGGREGATE BASE COURSE, GRADING D-1
Ⓕ	10-INCH MINUS SHOT ROCK EMBANKMENT
Ⓖ	AGGREGATE BASE COURSE, GRADING D-1
Ⓗ	UNCLASSIFIED EXCAVATION

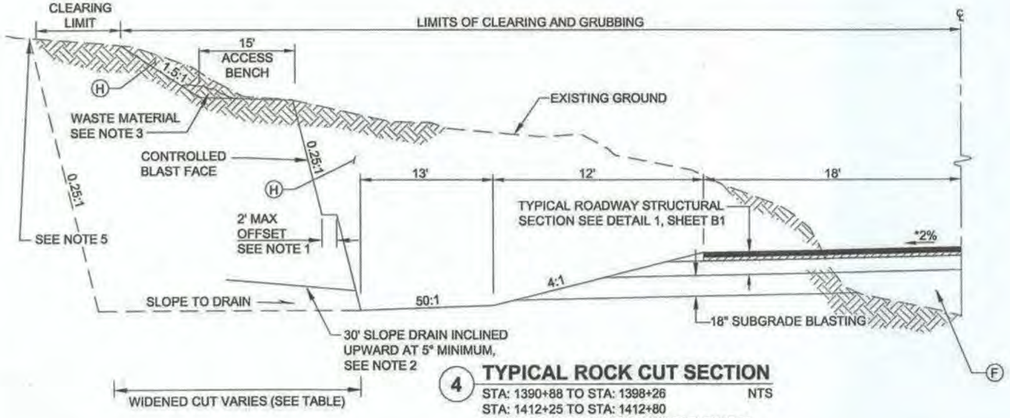
NOTES:
1. REMOVE ALL VEGETATION, LOOSE AND DELETERIOUS MATERIALS FROM SURFACE OF EMBANKMENT FOUNDATION.
2. BENCH ALL EXISTING SLOPES STEEPER THAN 4H:1V SUBJECT TO FILL AS INDICATED IN TYPICAL SECTION 1.
3. MINIMUM BENCH WIDTH SHOWN. PROVIDE SUFFICIENT WIDTH FOR PLACING AND COMPACTING OPERATIONS.
4. SLOPE ALL CUTS IN SOIL AT 2H:1V TO EXISTING GRADE.

1 TYPICAL SECTION OF IMPROVEMENT
CUT AND FILL TYPICAL — NTS
EACH SIDE OF ROADWAY
*CROSS SLOPE VARIES IN SUPERELEVATED SECTION, SEE DETAIL 3, SHEET B2

2 WASTE AREA A SECTION
NTS



3 TYPICAL GUARDRAIL SECTION
*CROSS SLOPE VARIES IN SUPERELEVATED SECTION, SEE DETAIL 3, SHEET B2 — NTS



4 TYPICAL ROCK CUT SECTION
STA: 1390+88 TO STA: 1398+26 — NTS
STA: 1412+25 TO STA: 1412+80
*CROSS SLOPE VARIES IN SUPERELEVATED SECTION, SEE DETAIL 3, SHEET B2

WIDENED CUTS	
STATION TO STATION	WIDTH
1394+80 TO 1395+28	TRANSITION
1395+28 TO 1397+02	87.00'
1397+02 TO 1398+26	TRANSITION

NOTES:
1. MAXIMUM ALLOWABLE CONTROLLED BLAST FACE HEIGHT IS 40-FEET PER LIFT. LIMIT WIDTH OF OFFSET BENCHES AS SHOWN.
2. SLOPE DRAINS TO BE SPACED AT NOMINAL 30 FOOT CENTER -TO-CENTER SPACING ALONG ALIGNMENT. SPACING MAY BE MODIFIED BY THE ENGINEER DURING CONSTRUCTION WHERE CONCENTRATED WATER SOURCES ARE ENCOUNTERED.
3. FOLLOWING EXCAVATION, PLACE WASTE MATERIAL AGAINST TEMPORARY BACKSLOPE WHERE STEEPER THAN 1.5H:1V TO PREVENT RAVELING OR ROCK FALL GENERATION.
4. DO NOT CONSTRUCT ANY ROCK CUTS OUTSIDE THE AREAS INDICATED IN THE PLANS.
5. PROVIDE ACCESS BENCH AND CLEARING LIMIT BEYOND WIDENED CUT.

6/9/20

PLANS DEVELOPED BY:
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STATE OF ALASKA
49TH
NAOMI R. HOBBS
CE 9959
REGISTERED PROFESSIONAL ENGINEER
10-11-16

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

SKAGWAY - REPLACE CAPTAIN WILLIAM HENRY MOORE BRIDGE

TYPICAL SECTIONS

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DESIGNED | HOBBS
CHECKED | NOBLE
DRAFTED | WESTPHAL

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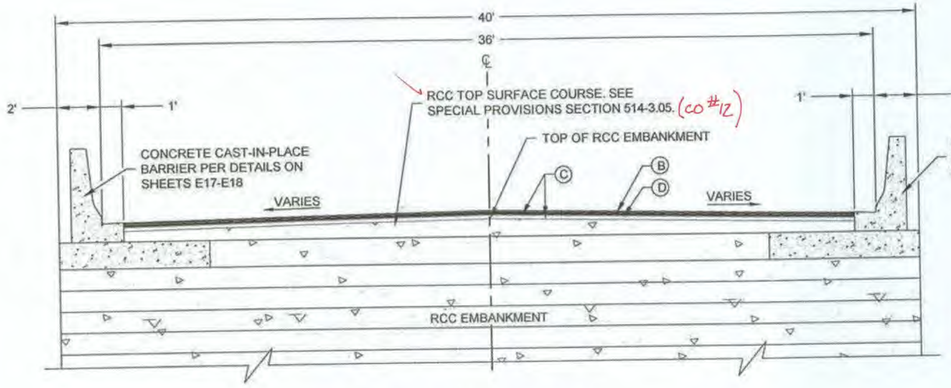
			ALASKA	0972016/Z684590000	2016	B2	59



1 TYPICAL RCC SECTION

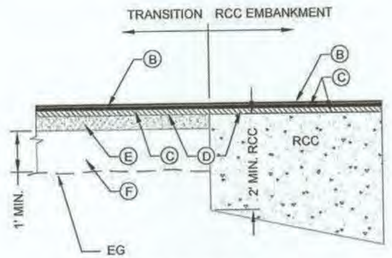
STA: 1397+02 TO STA: 1402+04 NTS

LABELING INDEX	
A	EXISTING PAVEMENT TO BE REMOVED.
B	3" HMA, TYPE II, CLASS "B", 1-3" LIFT
C	STE-1 ASPHALT FOR TACK COAT
D	~~2" ATB.1~~ 2" LIFT
E	6" AGGREGATE BASE COURSE, GRADING D-1
F	10-INCH MINUS SHOT ROCK EMBANKMENT
G	AGGREGATE BASE COURSE, GRADING D-1
H	UNCLASSIFIED EXCAVATION

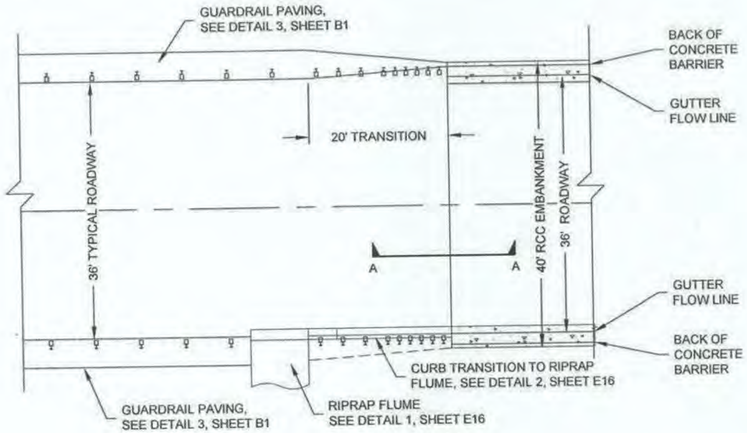
2" HMA, TYPE II CLASS "B", 1-2" LIFT CHANGE ORDER # 8

NOTE:

1. REFER TO DETAIL 2 THIS SHEET FOR TRANSITION FROM 36' TYPICAL ROADWAY SECTION TO 40' RCC EMBANKMENT SECTION.



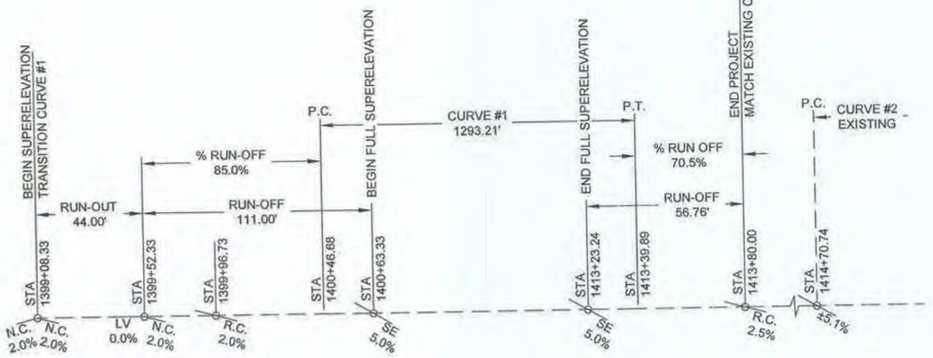
SECTION A-A



PLAN

2 36' TYPICAL ROADWAY TO 40' RCC EMBANKMENT TRANSITION

CURB AND RIPRAP FLUME ON SOUTHEAST SIDE ONLY NTS



SUPERELEVATION DESIGN CRITERIA:

SOUTH END
1. SUPERELEV. (C1=5.0%)
2. RUN-OUT (C1=44.00')
3. RUN-OFF (C1=111.00')
4. RUN-OFF% (C1=85.0%)

NORTH END
1. SUPERELEV. (C1=5.0%)
2. RUN-OUT NA
3. RUN-OFF (C1=56.76')
4. RUN-OFF% (C1=70.5%)

SUPERELEVATION NOTES:

1. BUILD SUPERELEVATION INTO SUBGRADE AND CARRY THROUGH SHOULDER.
2. % RUN-OFF = PORTION OF RUN-OFF ON TANGENT.
3. USE THE FOLLOWING DEFINITIONS FOR THE ABBREVIATED CROSS SLOPE CONDITIONS:
   - N.C. MEANS NORMAL CROWN (START=2.0%, END=NA)
   - LV MEANS LEVEL (0.0%)
   - SE MEANS SUPERELEVATED SECTION (5.0%)
   - R.C. MEANS ROTATED CROWN (START=2.0%, END=2.5%)

3 SUPERELEVATION TRANSITION

STA 1399+08.33 TO STA 1413+80.00

JD 6/9/20

PLANS DEVELOPED BY:
DOWL
5368 COMMERCIAL BLVD.
JUNEAU, AK 99801
(907) 780-3533
#AECL848

STATE OF ALASKA
49 TH
NAOMI R. HOBBS
CE 9959
REGISTERED PROFESSIONAL ENGINEER
8-17-2016

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

SKAGWAY - REPLACE CAPTAIN WILLIAM HENRY MOORE BRIDGE

TYPICAL SECTIONS

FILE | C:\Civil 3D Projects\247\70732-01\Civil\SA14-CT-B-TS-ONHW.dwg | DATE | 8/17/2016 11:20 | LAYOUT | B2 | DESIGNED | HOBBS | CHECKED | NOBLE | DRAFTED | WESTPHAL

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0972016/Z684590000	2016	C1	59

ESTIMATE OF QUANTITIES

ITEM NO.	ITEM DESCRIPTION	PAY UNIT	TOTAL QUANTITY
201(3B)	CLEARING AND GRUBBING	LUMP SUM	ALL REQUIRED
201(7)	INVASIVE PLANT SPECIES CONTROL, REMOVAL, AND DISPOSAL	SQUARE YARD	833 ~~697~~
202(2)	REMOVAL OF PAVEMENT	SQUARE YARD	7478 ~~7,348~~
202(4)	REMOVAL OF CULVERT PIPE	LINEAR FOOT	28 ~~101~~
203(2A)	ROCK EXCAVATION – SOUTH TRANSITION	CUBIC YARD	9,818 ~~8,760~~
203(2B)	ROCK EXCAVATION – SOUTH ABUTMENT	CUBIC YARD	7,392 ~~8,120~~
203(2C)	ROCK EXCAVATION – NORTH ABUTMENT	CUBIC YARD	830 ~~348~~
203(2D)	ROCK EXCAVATION – NORTH TRANSITION	CUBIC YARD	1,745 ~~300~~
203(3)	UNCLASSIFIED EXCAVATION	CUBIC YARD	106,649 ~~93,400~~
203(9)	OBLITERATION OF ROADWAY	SQUARE YARD	693 ~~669~~
203(10A)	CONTROLLED BLASTING – SOUTH APPROACH AND TRANSITION	LINEAR FOOT	20,368 ~~58,400~~
203(10B)	CONTROLLED BLASTING – SOUTH ABUTMENT	LINEAR FOOT	2,537 ~~6,200~~
203(10C)	CONTROLLED BLASTING – NORTH ABUTMENT	LINEAR FOOT	0 ~~1,050~~
203(11)	DITCHLINE/SUBGRADE BLASTING	SQUARE YARD	600 ~~3,640~~
203(12)	DRAIN HOLES	LINEAR FOOT	570 ~~900~~
203(19)	10–INCH MINUS SHOT ROCK EMBANKMENT	CUBIC YARD	86,750
206(1)	FILTER BLANKET	CUBIC YARD	19 ~~206~~
207(1)	ROCK SLOPE SCALING	SCALER–HOUR	17 ~~275~~
208(1)	STABILIZATION – ROCK BOLT	LINEAR FOOT	2255 ~~2,100~~
208(2)	STABILIZATION – FOUNDATION ROCK BOLT	LINEAR FOOT	921 ~~875~~
208(3)	STABILIZATION – ROCK DOWEL	LINEAR FOOT	33 ~~300~~
209(1)	TEMPORARY ROCKFALL PROTECTION	LUMP SUM	ALL REQUIRED
301(1)	AGGREGATE BASE COURSE, GRADING D–1	TON	6670 ~~5,040~~
306(1)	ATB (HMA, TYPE II; CLASS B)	TON	1569 ~~1,320~~
401(1B)	HMA, TYPE II; CLASS B	TON	~~2552~~ ~~2,260~~
401(4)	ASPHALT BINDER, GRADE PG 58–34	TON	233 ~~185~~
401(8)	HMA PRICE ADJUSTMENT, TYPE II; CLASS B	CONTINGENT SUM	ALL REQUIRED
401(9)	LONGITUDINAL JOINT DENSITY PRICE ADJUSTMENT	CONTINGENT SUM	ALL REQUIRED
402(1)	STE–1 ASPHALT FOR TACK COAT	TON	2.87 ~~5.32~~
507(6)	BRIDGE NUMBER PLATE	EACH	2
514(4)	RCC TEST SECTION	LUMP SUM	ALL REQUIRED
514(5)	AGGREGATE FOR RCC AND BEDDING MORTAR	TON	42,317 ~~39,027~~
514(6)	CEMENT FOR RCC, GROUT, AND BEDDING MORTAR	TON	2,591 ~~2,125~~
514(7)	FLY ASH FOR RCC, GROUT, AND BEDDING MORTAR	TON	1,275 ~~1,071~~
514(8)	ADMIXTURES FOR RCC, GROUT, AND BEDDING MORTAR	FLUID OUNCE	175,779 ~~542,560~~
514(9)	RCC IN PLACE	CUBIC YARD	22,959 ~~22,171~~
602(4)	STRUCTURAL PLATE ARCH 75' SPAN, 25' RISE, 1 GAGE	LUMP SUM	ALL REQUIRED
603(1–36)	36 INCH CSP	LINEAR FOOT	0 ~~65~~
606(1)	W–BEAM GUARDRAIL	LINEAR FOOT	1,695
606(6)	REMOVING AND DISPOSING OF GUARDRAIL	LINEAR FOOT	2,394 ~~2,337~~
606(13)	PARALLEL GUARDRAIL TERMINAL	EACH	6
606(16)	TRANSITION RAIL	EACH	4
607(5)	DRIVE GATE	EACH	2

6/9/20

PLANS DEVELOPED BY:
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(907) 780-3533
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STATE OF ALASKA 49TH
NAOMI R. HOBBS
CE 9959
REGISTERED PROFESSIONAL ENGINEER
9-16-16

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SKAGWAY - REPLACE CAPTAIN
WILLIAM HENRY MOORE BRIDGE

ESTIMATE OF QUANTITIES

FILE C:\Civil 3D Projects\24\70732-01\Civil\SA14-CT-C-QT-CWHM.dwg | DATE 9/16/2016 13:52 | LAYOUT C1 | DESIGNED HOBBS | CHECKED NOBLE | DRAFTED WESTPHAL

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0972016/Z684590000	2016	C2	59

ESTIMATE OF QUANTITIES

ITEM NO.	ITEM DESCRIPTION	PAY UNIT	TOTAL QUANTITY
608(1A)	CONCRETE SIDEWALK, 4 INCHES THICK	SQUARE YARD	540.83 ~~540~~
608(6)	CURB RAMP	EACH	3
608(9)	COLORED CONCRETE SIDEWALK, 4 INCHES THICK	SQUARE YARD	791 ~~790~~
609(2)	CURB AND GUTTER, TYPE 1	LINEAR FOOT	936 ~~931~~
611(1A)	RIPRAP, CLASS I	CUBIC YARD	390 ~~563~~
611(1B)	RIPRAP, CLASS II	CUBIC YARD	517 ~~36~~
614(1)	CONCRETE BARRIER	LINEAR FOOT	1,003
615(1)	STANDARD SIGN	SQUARE FOOT	150.25 ~~151~~
615(7)	OVERHEAD SNOW POLE	EACH	22
618(1)	SEEDING	ACRE	8.11
620(1)	TOPSOIL	SQUARE YARD	39,202
622(15)	BENCH	EACH	5
622(16)	BARRIER BOULDER	EACH	30 ~~35~~
622(17)	BIKE RACK	EACH	2
622(18)	INTERPRETIVE SIGN SUPPORT – TYPE MASONRY	EACH	4
622(19)	CMU BLOCK WALL	LINEAR FOOT	550 ~~545~~
622(20)	HISTORIC BRONZE PLAQUE	LUMP SUM	ALL REQUIRED
622(21)	WAYSIDE SIGN	LUMP SUM	ALL REQUIRED
629(1)	GUARDRAIL PAVING	LINEAR FOOT	2207 ~~2,092~~
640(1)	MOBILIZATION AND DEMOBILIZATION	LUMP SUM	ALL REQUIRED
640(4)	WORKER MEALS AND LODGING, OR PER DIEM	LUMP SUM	ALL REQUIRED
641(1)	EROSION, SEDIMENT AND POLLUTION CONTROL ADMINISTRATION	LUMP SUM	ALL REQUIRED
641(3)	TEMPORARY EROSION, SEDIMENT AND POLLUTION CONTROL	LUMP SUM	ALL REQUIRED
641(5)	TEMPORARY EROSION SEDIMENT AND POLLUTION CONTROL BY DIRECTIVE	CONTINGENT SUM	ALL REQUIRED
641(6)	WITHHOLDING	CONTINGENT SUM	ALL REQUIRED
641(7)	SWPPP MANAGER	LUMP SUM	ALL REQUIRED
642(1)	CONSTRUCTION SURVEYING	LUMP SUM	ALL REQUIRED
642(3)	THREE PERSON SURVEY PARTY	HOUR	40.24 ~~100~~
642(4)	SET PRIMARY MONUMENT	EACH	2
642(8)	ADJUST EXISTING MONUMENT	EACH	1
642(10)	MOUNUMENT CASE	EACH	2
643(2)	TRAFFIC MAINTENANCE	LUMP SUM	ALL REQUIRED
643(3)	PERMANENT CONSTRUCTION SIGNS	LUMP SUM	ALL REQUIRED
643(15)	FLAGGING	CONTINGENT SUM	ALL REQUIRED
643(23)	TRAFFIC PRICE ADJUSTMENT	CONTINGENT SUM	ALL REQUIRED
643(25)	TRAFFIC CONTROL	CONTINGENT SUM	ALL REQUIRED
644(1)	FIELD OFFICE	LUMP SUM	ALL REQUIRED
644(2)	FIELD LABORATORY	LUMP SUM	ALL REQUIRED
644(15)	NUCLEAR TESTING EQUIPMENT STORAGE SHED	EACH	1
645(1)	TRAINING PROGRAM, TWO TRAINEES/APPRENTICES	HOUR	1,000
670(1)	PAINTED TRAFFIC MARKINGS	LUMP SUM	ALL REQUIRED
670(8)	RECESSED PAVEMENT MARKER	EACH	49

ITEMS ADDED BY CHANGEORDER

CO#2	208(2A)	FOUNDATION FILL	ALL REQ'D
CO#3	501(1A)	MIX DESIGN ADJUSTMENT	ALL REQ'D
CO#4	208(2B)	FOUNDATION FILL PRICE REDUCTION	ALL REQ'D
CO#4	604(4A)	SPA PRE-WASH PRICE REDUCTION	ALL REQ'D
CO#4	604(4B)	SPA POST-WASH PRICE REDUCTION	ALL REQ'D
CO#5	514(10)	ELEVATION 2227' TO 2229 CONCRETE	ALL REQ'D
CO#7	203(2E)	SOUTH CREEK CHANNEL EXCAVATION	ALL REQ'D
CO#7	611(1C)	SOUTH CREEK CHANNEL RIP RAP	ALL REQ'D
CO#9	603(21-24)	24-INCH CPP	70.5 LF
CO#10	614(2)	CONCRETE BARRIER REFLECTOR	ALL REQ'D
CO#11	607(6)	4-FOOT CHAIN LINK FENCE	ALL REQ'D
CO#13	208(4)	NONCONFORMING STABILIZATION/GROUT PRICE REDUCTION	

BASIS OF ESTIMATE

ITEM NO.	ITEM DESCRIPTION	ESTIMATING FACTOR
201(3B)	CLEARING	1.57 ACRE
	CLEARING AND GRUBBING	8.39 ACRE
301(1)	AGGREGATE BASE COURSE, GRADING D-1	2.18 TON/CY
306(1)	ATB	119 LB/SY PER INCH DEPTH
401(1B)	HOT MIX ASPHALT, TYPE II; CLASS B	119 LB/SY PER INCH DEPTH
401(4)	ASPHALT BINDER, GRADE PG 58-34	4.5% OF ITEM 306(1), 5.5% OF ITEM 401(1B)
402(1)	STE-1 ASPHALT FOR TACK COAT	0.00042 TON/SY
514(5)	AGGREGATE FOR RCC AND BEDDING MORTAR	2.13 TON/CY
602(4)	STRUCTURAL PLATE ARCH 75' SPAN, 25' RISE, 1 GAGE	520 CY (CLASS A CONCRETE)
		1,253 CY (RCC IN PLACE)

Change Order 14 514(10) Nonconforming RCC Quality Control Plan - Missing Test Results, Reduced Price JSK 6/16/2023
Change Order 15 111(1) Credit for Added Construction Engineering Costs until Substantial Completion

6/9/20

PLANS DEVELOPED BY:
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STATE OF ALASKA
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NAOMI R. HOBBS
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REGISTERED PROFESSIONAL ENGINEER
10-11-16

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
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SKAGWAY - REPLACE CAPTAIN
WILLIAM HENRY MOORE BRIDGE

ESTIMATE OF QUANTITIES

FILE C:\Civil 3D Projects\24\70732-01\Civil\SA14-CT-C-QT-QWHM.dwg | DATE 10/11/2016 | LAYOUT C2 | DESIGNED HOBBS | CHECKED NOBLE | DRAFTED WESTPHAL

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0972016/Z684590000	2016	D1	59

201(3B) CLEARING AND GRUBBING

SHEET	FROM STATION	TO STATION	OFFSET	CLEARING AREA (ACRE)	CLEARING AND GRUBBING AREA (ACRE)	REMARKS
F1–F2	1390+44	1398+34	LT	0.32	---	
F1–F2	1390+46	1398+24	LT/RT	---	3.02	
F1	1390+49	1392+69	RT	---	0.04	
F1–F2	1390+50	1398+34	RT	0.51	---	
F1	1391+43	1396+46	RT	---	3.11	
F2–F3	1401+93	1413+80	LT	0.39	---	
F2–F3	1401+93	1413+80	RT	0.35	---	
F2	1402+04	1404+98	LT/RT	---	0.25	
F2–F3	1403+00	1413+80	RT	---	1.88	
F2–F3	1405+01	1406+65	LT	---	0.01	
F3	1409+84	1413+80	LT	---	0.08	
			TOTAL:	1.57	8.39	ACRE

201(7) INVASIVE PLANT SPECIES CONTROL, REMOVAL AND DISPOSAL

SHEET	FROM STATION	TO STATION	OFFSET	AREA (SY)	REMARKS
P2	1391+00	1391+03	18' RT	1	
P2	1393+06	1394+73	85' RT	121	
P2–P3	1395+34	1397+52	157' RT	262	
P2–P3	1396+05	1397+55	128' RT	72	
P3	1400+76	1400+82	45' RT	2	
P3	1400+97	1401+01	87' RT	1	
P3	1402+37	1402+44	79' RT	5	
P4	1411+41	1411+45	40' LT	1	
P4	1412+18	1413+06	31' LT	226	
P4	1412+67	1412+78	13' RT	6	
			TOTAL:	~~697~~ 833	SY

202(2) REMOVAL OF PAVEMENT

SHEET	FROM STATION	TO STATION	AREA (SY)	REMARKS
F1	1390+45	1396+59	1,919	SOUTH END OF ROADWAY
F2–F3	1400+59	1413+80	5,429	NORTH END OF ROADWAY
		TOTAL:	~~7,348~~ 7478	SY

202(4) REMOVAL OF CULVERT PIPE

SHEET	FROM STATION	OFFSET	TO STATION	OFFSET	LENGTH (LF)	REMARKS
F1	1393+48	12' RT	1393+27	63' RT	55	
F3	1412+91	23' LT	1412+79	21' RT	46	
				TOTAL:	~~101~~ 28	LF

203(2A) ROCK EXCAVATION – SOUTH TRANSITION

SHEET	FROM STATION	TO STATION	VOLUME (CY)	REMARKS
F2	1397+00	1398+75	8,760	
		TOTAL:	8,760	CY

203(2B) ROCK EXCAVATION – SOUTH ABUTMENT

SHEET	FROM STATION	TO STATION	VOLUME (CY)	REMARKS
F2	1398+50	1399+30	7,320	
F2	---	---	800	CONTINGENCY FOR ADDITIONAL REMOVAL
		TOTAL:	~~8,120~~ 7384	CY

203(2C) ROCK EXCAVATION – NORTH ABUTMENT

SHEET	FROM STATION	TO STATION	VOLUME (CY)	REMARKS
F2	1399+50	1399+80	348	
		TOTAL:	348	CY

203(2D) ROCK EXCAVATION – NORTH TRANSITION

SHEET	FROM STATION	TO STATION	VOLUME (CY)	REMARKS
F2	1400+00	1402+00	300	
		TOTAL:	300	CY

203(3) UNCLASSIFIED EXCAVATION

SHEET	FROM STATION	TO STATION	VOLUME (CY)	REMARKS
F1–F2	1390+45	1397+02	75,360	SOUTH OF RCC
F2–F3	1402+04	1413+80	14,860	NORTH OF RCC
F1	---	---	2,540	WAYSIDE
F2–F3	1403+75	1408+55	180	RIGHT SHOULDER IN CUT
F3	1413+70	1413+80	0	RIGHT SHOULDER IN CUT
F1–F2	1390+88	1397+02	160	LEFT SHOULDER IN CUT
F2	1402+04	1404+20	60	LEFT SHOULDER IN CUT
F2–F3	1404+60	1413+80	240	LEFT SHOULDER IN CUT
		TOTAL:	93,400	CY

203(9) OBLITERATION OF ROADWAY

SHEET	FROM STATION	TO STATION	OFFSET	AREA (SY)	REMARKS
F1	1392+92	1393+77	RT	302	
F1–F2	1396+55	1397+65	RT	367	
			TOTAL:	669 693 SY	SY

203(10A) CONTROLLED BLASTING – SOUTH APPROACH AND TRANSITION

SHEET	LOCATION	LENGTH (LF)	REMARKS
F1	SOUTH APPROACH	46,000	PRE-SPLIT AND BUFFER HOLES
F1	SOUTH TRANSITION	4,000	PRE-SPLIT AND BUFFER HOLES
F1	SOUTH STAGING AREA	8,400	PRE-SPLIT AND BUFFER HOLES
	TOTAL:	~~58,400~~ 203,968	LF

203(10B) CONTROLLED BLASTING – SOUTH ABUTMENT

SHEET	LOCATION	LENGTH (LF)	REMARKS
F1–F2	SOUTH ABUTMENT	6,200	PRE-SPLIT AND BUFFER HOLES
	TOTAL:	~~6,200~~ 2537	LF

203(10C) CONTROLLED BLASTING – NORTH ABUTMENT

SHEET	LOCATION	LENGTH (LF)	REMARKS
F2	NORTH ABUTMENT	1,050	PRE-SPLIT AND BUFFER HOLES
	TOTAL:	~~1,050~~ 0	LF

203(11) DITCHLINE/SUBGRADE BLASTING

SHEET	FROM STATION	TO STATION	AREA (SY)	REMARKS
F1	1390+45	1397+00	1,820	SOUTH APPROACH
F2–F3	1402+00	1408+55	1,820	NORTH APPROACH
		TOTAL:	~~3,640~~ 600	SY

203(12) DRAIN HOLES

SHEET	FROM STATION	TO STATION	LENGTH (LF)	REMARKS
F1	1391+00	1397+00	900	SOUTH APPROACH DRAINS
		TOTAL:	~~900~~ 570	LF

203(19) 10-INCH MINUS SHOT ROCK EMBANKMENT

SHEET	FROM STATION	TO STATION	VOLUME (CY)	REMARKS
F1–F2	1390+45	1397+02	290	SOUTH OF RCC
F2–F3	1402+04	1413+80	5,970	NORTH OF RCC
F1	---	---	80,490	WAYSIDE PARKING AREA
		TOTAL:	~~86,750~~ 86,792	CY

206(1) FILTER BLANKET

SHEET	FROM STATION	OFFSET	TO STATION	OFFSET	VOLUME (CY)	REMARKS
F1	1391+23	21' RT	1391+64	471' RT	188	
F1	1396+78	18' RT	1396+95	70' RT	18	
				TOTAL:	~~206~~ 20	CY

208(1) STABILIZATION – ROCK BOLT

SHEET	LOCATION	LENGTH (LF)	REMARKS
F1	SOUTH ABUTMENT	940	
F2	NORTH ABUTMENT	1,160	
	TOTAL:	~~2,100~~ 2255	LF

208(2) STABILIZATION – FOUNDATION ROCK BOLT

SHEET	LOCATION	LENGTH (LF)	REMARKS
F1	SOUTH	625	
F2	NORTH	250	
	TOTAL:	~~875~~ 921	LF

208(3) STABILIZATION – ROCK DOWEL

SHEET	LOCATION	LENGTH (LF)	REMARKS
F1	SOUTH ABUTMENT	300	25x25 PATTERN, 15-FOOT DOWELS
	TOTAL:	~~300~~ 33	LF

301(1) AGGREGATE BASE COURSE, GRADING D-1

SHEET	FROM STATION	TO STATION	WEIGHT (TON)	REMARKS
F1–F2	1390+45	1397+02	1,230	
F2–F3	1402+04	1413+80	2,200	
F1	---	---	1,610	WAYSIDE PARKING AREA
		TOTAL:	~~5,040~~ 6670	TON

306(1) ATB

SHEET	FROM STATION	TO STATION	WEIGHT (TON)	REMARKS
F1–F2	1390+45	1397+02	240	SOUTH OF RCC
F2	1397+02	1402+04	270	RCC
F2–F3	1402+04	1413+80	440	NORTH OF RCC
F1	---	---	370	WAYSIDE PARKING AREA
		TOTAL:	~~1,320~~ 1568	TON

401(1B) HMA, TYPE II; CLASS B

SHEET	FROM STATION	TO STATION	WEIGHT (TON)	REMARKS
F1–F2	1390+45	1397+02	470	SOUTH OF RCC
F2	1397+02	1402+04	400	RCC
F2–F3	1402+04	1413+80	840	NORTH OF RCC
F1	---	---	550	WAYSIDE PARKING AREA
		TOTAL:	~~2,260~~ 2551	TON

6/9/20

PLANS DEVELOPED BY:
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SKAGWAY - REPLACE CAPTAIN WILLIAM HENRY MOORE BRIDGE

SUMMARY TABLES

FILE | C:\Civil 3D Projects\24\70732-01\Civil\SA14-CT-D-SM-CMH.dwg | DATE | 8/17/2016 11:28 | LAYOUT | D1 | DESIGNED | HOBBS | CHECKED | NOBLE | DRAFTED | WESTPHAL

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0972016/Z684590000	2016	D2	59

401(4) ASPHALT BINDER, GRADE PG 58-34

SHEET	ASPHALT TYPE	WEIGHT (TON)	REMARKS
F1-F3	ATB	60	
F1-F3	HMA, TYPE II; CLASS B	125	
	TOTAL:	~~185~~ 232.62	TON

402(1) STE-1 ASPHALT FOR TACK COAT

SHEET	FROM STATION	TO STATION	WEIGHT (TON)	REMARKS
F1-F2	1390+45	1397+02	1.10	SOUTH OF RCC
F2	1397+02	1402+04	0.94	RCC
F2-F3	1402+04	1413+80	1.98	NORTH OF RCC
F1	---	---	1.30	WAYSIDE PARKING AREA
	TOTAL:		~~5.32~~ 2.97	TON

507(6) BRIDGE NUMBER PLATE

SHEET	STATION	OFFSET	QUANTITY (EA)	REMARKS
F2	1397+02	RT	1	PLACED AT THE END OF THE PROPOSED BRIDGE
F2	1402+04	LT	1	PLACED AT THE END OF THE PROPOSED BRIDGE
	TOTAL:		2	EA

514(5) AGGREGATE FOR RCC AND BEDDING MORTAR

SHEET	FROM STATION	TO STATION	WEIGHT (TON)	REMARKS
F2	1397+00	1402+00	39,850	AGGREGATE FOR IN-PLACE RCC
F2	1397+00	1402+00	77	FLY ASH FOR IN-PLACE BEDDING MORTAR
	TOTAL:		~~39,927~~ 42,316.61	TON

514(6) CEMENT FOR RCC, GROUT, AND BEDDING MORTAR

SHEET	FROM STATION	TO STATION	WEIGHT (TON)	REMARKS
F2	1397+00	1402+00	1,993	CEMENT FOR IN-PLACE RCC
F2	1397+00	1402+00	14	CEMENT FOR IN-PLACE BEDDING MORTAR
F2	1397+00	1402+00	118	CEMENT FOR IN-PLACE GROUT
	TOTAL:		~~2,125~~ 2591.20	TON

514(7) FLY ASH FOR RCC, GROUT, AND BEDDING MORTAR

SHEET	FROM STATION	TO STATION	WEIGHT (TON)	REMARKS
F2	1397+00	1402+00	1,004	FLY ASH FOR IN-PLACE RCC
F2	1397+00	1402+00	8	FLY ASH FOR IN-PLACE BEDDING MORTAR
F2	1397+00	1402+00	59	FLY ASH FOR IN-PLACE GROUT
	TOTAL:		~~1,071~~ 1275	TON

514(8) ADMIXTURES FOR RCC, GROUT, AND BEDDING MORTAR

SHEET	DESCRIPTION	VOLUME (FL OZ)	REMARKS
F2	RCC ADMIXTURE	531,240	
F2	GROUT ADMIXTURE	3,720	
F2	MORTAR ADMIXTURE	7,600	
	TOTAL:	~~542,560~~ 975,779.31	FL OZ

514(9) RCC IN PLACE

SHEET	FROM STATION	TO STATION	VOLUME (CY)	REMARKS
F2	1397+02	1402+04	22,171	RCC ABOVE ELEVATION 2,227' TO FG
	TOTAL:		~~22,171~~ 23276	CY

603(1-36) 36 INCH CSP

SHEET	FROM STATION	OFFSET	TO STATION	OFFSET	LENGTH (LF)	REMARKS
F1	1391+54	32' LT	1391+23	23' RT	65	
				TOTAL:	65	LF

606(1) W-BEAM GUARDRAIL

SHEET	FROM STATION	TO STATION	OFFSET	LENGTH (LF)	REMARKS
F1	1390+45	1393+82	18' RT	337	MATCH TO EXISTING GUARDRAIL
F1	1396+34	1396+84	18' RT	50	CONNECT TO TRANSITION RAIL
F1	1396+59	1396+84	18' LT	25	CONNECT TO TRANSITION RAIL
F2	1402+22	1405+42	18' LT	320	CONNECT TO TRANSITION RAIL
F2	1402+23	1403+37	18' RT	114	CONNECT TO TRANSITION RAIL
F2-F3	1405+31	1413+80	18' RT	849	MATCH TO EXISTING GUARDRAIL
			TOTAL:	1,695	LF

606(6) REMOVING AND DISPOSING OF GUARDRAIL

SHEET	FROM STATION	TO STATION	OFFSET	LENGTH (LF)	REMARKS
F1-F2	1390+45	1397+70	RT	756	
F1-F2	1394+52	1397+64	RT	327	
F2	1400+55	1405+72	LT/RT	526	
F2	1400+62	1402+33	RT	165	
F3	1408+19	1413+80	RT	563	
			TOTAL:	~~2,337~~ 2394	LF

606(13) PARALLEL GUARDRAIL TERMINAL

SHEET	FROM STATION	OFFSET	TO STATION	OFFSET	QUANTITY (EA)	REMARKS
F1	1393+82	18' RT	1394+35	20' RT	1	
F1	1395+81	20' RT	1396+34	18' RT	1	
F1	1396+06	20' LT	1396+59	18' LT	1	
F2	1403+37	18' RT	1403+90	20' RT	1	
F2	1404+78	20' RT	1405+31	18' RT	1	
F2	1405+42	18' LT	1405+91	20' LT	1	
				TOTAL:	6	EA

606(16) TRANSITION RAIL

SHEET	FROM STATION	OFFSET	TO STATION	OFFSET	QUANTITY (EA)	REMARKS
F1	1396+84	18' RT	1397+05	18' RT	1	20.75' IN LENGTH
F1	1396+84	18' LT	1397+05	18' LT	1	20.75' IN LENGTH
F2	1402+02	18' RT	1402+23	18' RT	1	20.75' IN LENGTH
F2	1402+02	18' LT	1402+22	18' LT	1	20.75' IN LENGTH
				TOTAL:	4	EA

607(5) DRIVE GATE

SHEET	STATION	OFFSET	QUANTITY (EA)	REMARKS
F2	1397+65	RT	1	
F2	1400+71	RT	1	
	TOTAL:		2	EA

608(1A) CONCRETE SIDEWALK, 4 INCHES THICK

SHEET	FROM STATION	TO STATION	AREA (SY)	REMARKS
G9	1394+06	1396+02	440	WAYSIDE MEDIAN
G9	1394+17	1395+76	100	WAYSIDE BUS DROPOFF
		TOTAL:	540	SY

608(6) CURB RAMP

SHEET	STATION	OFFSET	QUANTITY (EA)	REMARKS
G9	1395+66	111' RT	1	WAYSIDE PARKING AREA
G9	1395+95	113' RT	1	WAYSIDE PARKING AREA
G9	1396+36	108' RT	1	WAYSIDE PARKING AREA
		TOTAL:	3	EA

608(9) COLORED CONCRETE SIDEWALK, 4 INCHES THICK

SHEET	FROM STATION	TO STATION	AREA (SY)	REMARKS
G9	1393+69	1396+84	790	WAYSIDE PARKING AREA
		TOTAL:	~~790~~ 791	SY

609(2) CURB AND GUTTER, TYPE 1

SHEET	FROM STATION	TO STATION	LENGTH (LF)	REMARKS
G9	1394+06	1396+02	469	WAYSIDE PARKING AREA - MEDIAN
G9	1393+69	1396+33	434	WAYSIDE PARKING AREA
G9	1396+74	1397+02	28	CURB TRANSITION TO RIPRAP FLUME
		TOTAL:	~~931~~ 936	LF

611(1A) RIPRAP, CLASS I

SHEET	FROM STATION	OFFSET	TO STATION	OFFSET	VOLUME (CY)	REMARKS
F1	1391+23	21' RT	1391+64	471' RT	563	
				TOTAL:	~~563~~ 389.6	CY

611(1B) RIPRAP, CLASS II

SHEET	FROM STATION	OFFSET	TO STATION	OFFSET	VOLUME (CY)	REMARKS
F1	1396+78	18' RT	1396+95	70' RT	36	
				TOTAL:	~~36~~ 516.8	CY

614(1) CONCRETE BARRIER

SHEET	FROM STATION	TO STATION	OFFSET	LENGTH (LF)	REMARKS
F2	1397+02	1402+04	18' LT	502	
F2	1397+02	1402+04	18' RT	501	
			TOTAL:	1,003	LF

jp 6/9/16

PLANS DEVELOPED BY:
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#AECL848

STATE OF ALASKA 49TH
NAOMI R. HOBBS
CE 9959
REGISTERED PROFESSIONAL ENGINEER
8-17-2016

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SKAGWAY - REPLACE CAPTAIN
WILLIAM HENRY MOORE BRIDGE

SUMMARY TABLES

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NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0972016/Z684590000	2016	D3	59

615(7) OVERHEAD SNOW POLE

SHEET	STATION	OFFSET	QUANTITY (EA)	REMARKS
H1	1390+50	LT	1	NO BARRIER
H1	1391+56	RT	1	BEHIND BARRIER
H1	1392+41	LT	1	NO BARRIER
H1	1393+00	RT	1	BEHIND BARRIER
H1	1394+32	LT	1	NO BARRIER
H1	1394+33	RT	1	BEHIND BARRIER
H1	1395+90	RT	1	BEHIND BARRIER
H1	1396+23	LT	1	BEHIND BARRIER
H1	1397+00	RT	1	BEHIND BARRIER
H1	1402+18	LT	1	BEHIND BARRIER
H1	1403+20	RT	1	BEHIND BARRIER
H1	1403+91	LT	1	BEHIND BARRIER
H1	1405+11	RT	1	BEHIND BARRIER
H1	1405+63	LT	1	BEHIND BARRIER
H1	1407+02	RT	1	BEHIND BARRIER
H1	1407+54	LT	1	NO BARRIER
H1	1408+93	RT	1	BEHIND BARRIER
H1	1409+45	LT	1	NO BARRIER
H1	1410+84	RT	1	BEHIND BARRIER
H1	1411+36	LT	1	NO BARRIER
H1	1412+75	RT	1	BEHIND BARRIER
H1	1413+27	LT	1	NO BARRIER
		TOTAL:	22	EA

618(1) SEEDING

SHEET	FROM STATION	TO STATION	OFFSET	AREA (ACRE)	REMARKS
F1–F2	1390+45	1398+24	LT	3.25	
F1–F2	1390+49	1398+24	RT	3.04	
F1–F2	1402+04	1413+80	LT	0.54	
F2	1402+04	1413+80	RT	1.28	
			TOTAL:	~~8.11~~ 3.6	ACRE

620(1) TOPSOIL

SHEET	FROM STATION	TO STATION	OFFSET	AREA (SY)	REMARKS
F1–F2	1390+45	1398+24	LT	15,709	
F1–F2	1390+49	1398+24	RT	14,691	
F1–F2	1402+04	1413+80	LT	2,613	
F2	1402+04	1413+80	RT	6,189	
			TOTAL:	~~39,202~~ 13,725	SY

622(15) BENCH

SHEET	STATION	OFFSET	QUANTITY (EA)	REMARKS
G9	1394+47	173' RT	1	WAYSIDE PARKING AREA
G9	1395+46	176' RT	1	WAYSIDE PARKING AREA
G9	1396+37	145' RT	1	WAYSIDE PARKING AREA
G9	1396+49	83' RT	1	WAYSIDE PARKING AREA
G9	1396+58	99' RT	1	WAYSIDE PARKING AREA
		TOTAL:	5	EA

622(16) BARRIER BOULDER

SHEET	FROM STATION	OFFSET	TO STATION	OFFSET	QUANTITY (EA)	REMARKS
G9	1393+65	166' RT	1394+19	24' RT	35	
				TOTAL:	~~35~~ 30	EA

622(17) BIKE RACK

SHEET	STATION	OFFSET	QUANTITY (EA)	REMARKS
G9	1396+49	69' RT	1	
G9	1396+33	69' RT	1	
		TOTAL:	2	EA

622(18) INTERPRETIVE SIGN SUPPORT – TYPE MASONRY

SHEET	STATION	OFFSET	QUANTITY (EA)	REMARKS
G9	1394+97	176' RT	1	WAYSIDE PARKING AREA
G9	1396+50	150' RT	1	WAYSIDE PARKING AREA
G9	1396+66	109' RT	1	WAYSIDE PARKING AREA
G9	1396+80	94' RT	1	WAYSIDE PARKING AREA
		TOTAL:	4	EA

622(19) CMU BLOCK WALL

SHEET	FROM STATION	TO STATION	LENGTH (LF)	REMARKS
G9	1393+70	1396+85	545	WAYSIDE PARKING AREA
		TOTAL:	~~545~~ 550	LF

629(1) GUARDRAIL PAVING

SHEET	FROM STATION	TO STATION	OFFSET	LENGTH (LF)	REMARKS
F1	1390+45	1394+35	RT	390	
F1	1395+81	1397+05	RT	124	
F1	1396+06	1397+05	LT	99	
F2	1402+02	1405+91	LT	389	
F2	1402+02	1403+90	RT	188	
F2–F3	1404+78	1413+80	RT	902	
			TOTAL:	~~2,092~~ 2207	~~EA~~ LF

642(4) SET PRIMARY MONUMENT

SHEET	STATION	OFFSET	QUANTITY (EA)	REMARKS
F1	1394+75.83	104.13' RT	1	POINT #1007
F2	1400+80.78	71.43' RT	1	POINT #1006
		TOTAL:	2	EA

642(8) ADJUST EXISTING MONUMENT

SHEET	STATION	OFFSET	QUANTITY (EA)	REMARKS
F1	1391+64.57	0.04' LT	1	POINT #1008
		TOTAL:	1	EA

642(10) MONUMENT CASE

SHEET	STATION	OFFSET	QUANTITY (EA)	REMARKS
F1	1394+75.83	104.13' RT	1	POINT #1007
F2	1400+80.78	71.43' RT	1	POINT #1006
		TOTAL:	2	EA

670(1) PAINTED TRAFFIC MARKINGS

SHEET	FROM STATION	TO STATION	OFFEST	TYPE	LENGTH (MI)	AREA (SF)	QUANTITY (EA)	REMARKS
H1	1390+45	1413+80	LT	4" W	0.44	---	---	EDGE OF TRAVELED WAY
H1	1390+45	1413+80	CL	2 – 4" Y	0.44	---	---	DOUBLE STRIPE CENTERLINE
H1	1390+45	1413+80	RT	4" W	0.44	---	---	EDGE OF TRAVELED WAY
H1	---	---	RT	4" W	0.15	---	---	PARKING AREA
H1	---	---	RT	4" B	0.02	---	---	HANDICAP SYMBOL
H1	1395+33	1395+65	RT	24" W	---	66	---	STOP BAR
H1	1396+01	1396+32	RT	24" W	---	62	---	CROSSWALK/STOP BAR
H1	1396+01	1396+33	RT	24" W	---	62	---	CROSSWALK/STOP BAR
H1	1395+57	---	RT	---	---	---	1	HANDICAP SYMBOL
H1	1395+75	---	RT	---	---	---	1	HANDICAP SYMBOL
				TOTAL:	1.49	190	2	

670(8) RECESSED PAVEMENT MARKER

SHEET	STATION	OFFSET	QUANTITY (EA)	REMARKS
H1	1390+69	CL	1	
H1	1391+49	CL	1	
H1	1392+29	CL	1	
H1	1393+09	CL	1	
H1	1393+89	CL	1	
H1	1394+29	CL	1	
H1	1394+69	CL	1	
H1	1395+09	CL	1	
H1	1395+57	CL	1	
H1	1395+97	CL	1	
H1	1396+37	CL	1	
H1	1396+77	CL	1	
H1	1397+57	CL	1	
H1	1398+37	CL	1	
H1	1399+17	CL	1	
H1	1399+97	CL	1	
H1	1400+47	CL	1	
H1	1400+87	CL	1	
H1	1401+27	CL	1	
H1	1401+67	CL	1	
H1	1402+07	CL	1	
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H1	1403+67	CL	1	
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H1	1409+67	CL	1	
H1	1410+07	CL	1	
H1	1410+47	CL	1	
H1	1410+87	CL	1	
H1	1411+27	CL	1	
H1	1412+07	CL	1	
H1	1412+47	CL	1	
H1	1412+87	CL	1	
H1	1413+27	CL	1	
H1	1413+67	CL	1	
			TOTAL	49	EA

6/9/20

PLANS DEVELOPED BY:
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STATE OF ALASKA
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8-17-2016

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
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SKAGWAY - REPLACE CAPTAIN
WILLIAM HENRY MOORE BRIDGE

SUMMARY TABLES

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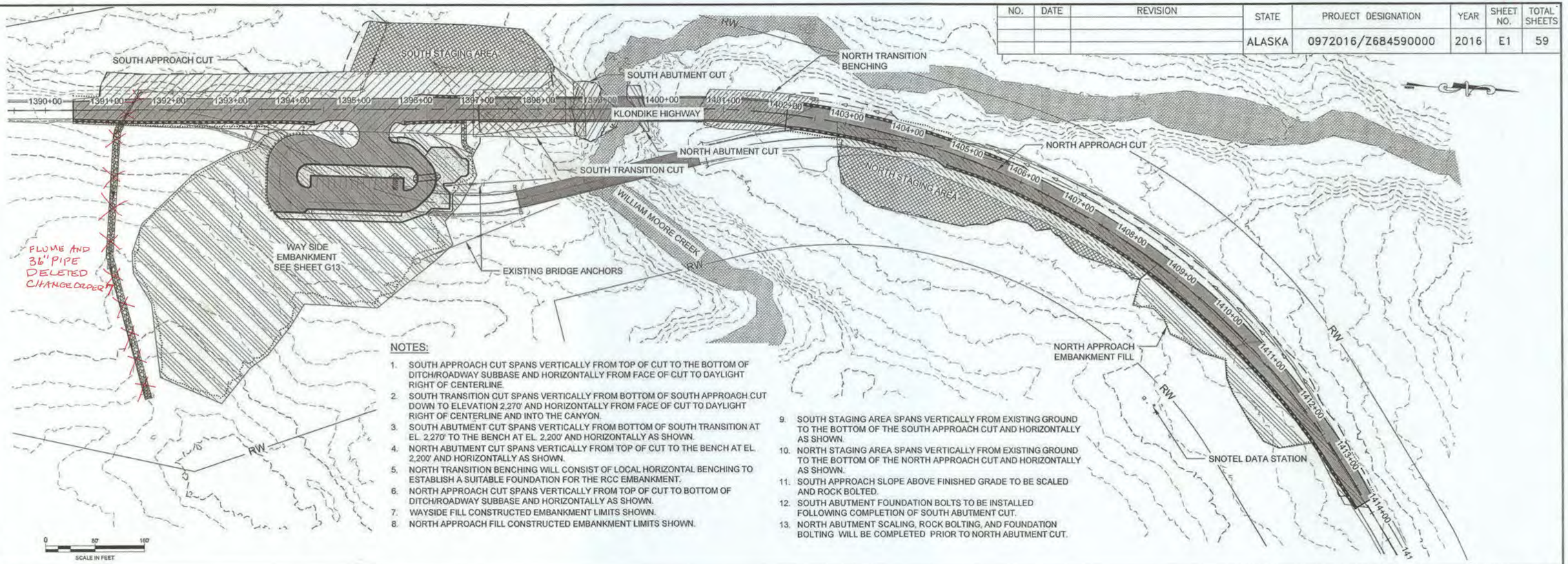
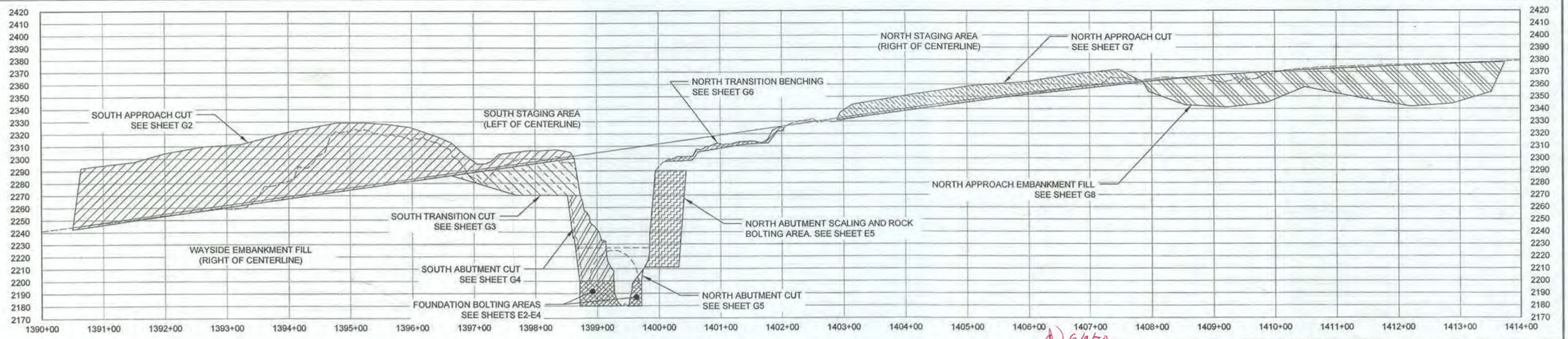


NOTES:

1. SOUTH APPROACH CUT SPANS VERTICALLY FROM TOP OF CUT TO THE BOTTOM OF DITCH/ROADWAY SUBBASE AND HORIZONTALLY FROM FACE OF CUT TO DAYLIGHT RIGHT OF CENTERLINE.
2. SOUTH TRANSITION CUT SPANS VERTICALLY FROM BOTTOM OF SOUTH APPROACH CUT DOWN TO ELEVATION 2,270' AND HORIZONTALLY FROM FACE OF CUT TO DAYLIGHT RIGHT OF CENTERLINE AND INTO THE CANYON.
3. SOUTH ABUTMENT CUT SPANS VERTICALLY FROM BOTTOM OF SOUTH TRANSITION AT EL. 2,270' TO THE BENCH AT EL. 2,200' AND HORIZONTALLY AS SHOWN.
4. NORTH ABUTMENT CUT SPANS VERTICALLY FROM TOP OF CUT TO THE BENCH AT EL. 2,200' AND HORIZONTALLY AS SHOWN.
5. NORTH TRANSITION BENCHING WILL CONSIST OF LOCAL HORIZONTAL BENCHING TO ESTABLISH A SUITABLE FOUNDATION FOR THE RCC EMBANKMENT.
6. NORTH APPROACH CUT SPANS VERTICALLY FROM TOP OF CUT TO BOTTOM OF DITCH/ROADWAY SUBBASE AND HORIZONTALLY AS SHOWN.
7. WAYSIDE FILL CONSTRUCTED EMBANKMENT LIMITS SHOWN.
8. NORTH APPROACH FILL CONSTRUCTED EMBANKMENT LIMITS SHOWN.
9. SOUTH STAGING AREA SPANS VERTICALLY FROM EXISTING GROUND TO THE BOTTOM OF THE SOUTH APPROACH CUT AND HORIZONTALLY AS SHOWN.
10. NORTH STAGING AREA SPANS VERTICALLY FROM EXISTING GROUND TO THE BOTTOM OF THE NORTH APPROACH CUT AND HORIZONTALLY AS SHOWN.
11. SOUTH APPROACH SLOPE ABOVE FINISHED GRADE TO BE SCALED AND ROCK BOLTED.
12. SOUTH ABUTMENT FOUNDATION BOLTS TO BE INSTALLED FOLLOWING COMPLETION OF SOUTH ABUTMENT CUT.
13. NORTH ABUTMENT SCALING, ROCK BOLTING, AND FOUNDATION BOLTING WILL BE COMPLETED PRIOR TO NORTH ABUTMENT CUT.



1 PAY LIMIT DIAGRAM PLAN AND PROFILE

NTS

PLANS DEVELOPED BY:
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SKAGWAY - REPLACE CAPTAIN WILLIAM HENRY MOORE BRIDGE

PAY LIMIT PLAN DIAGRAM

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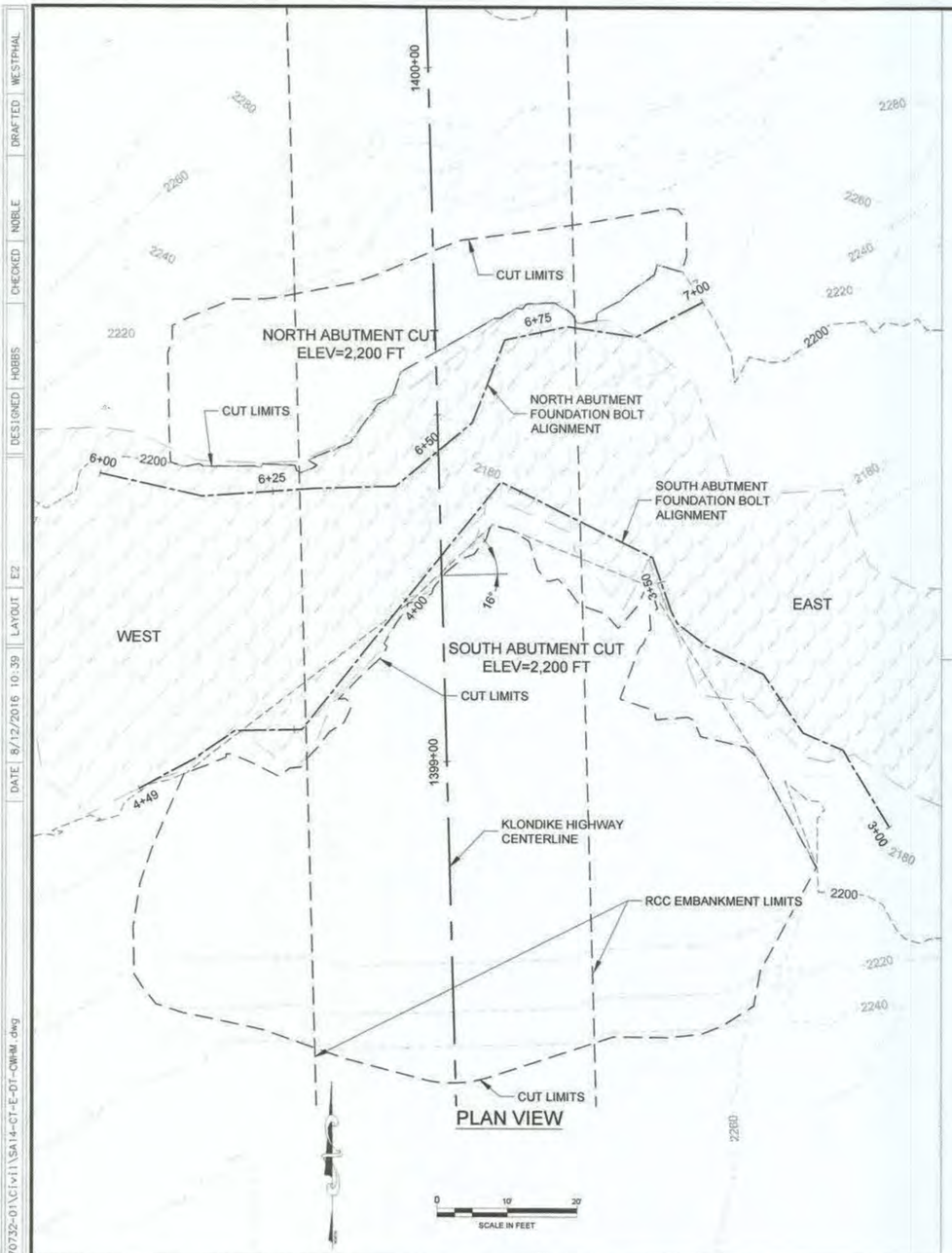
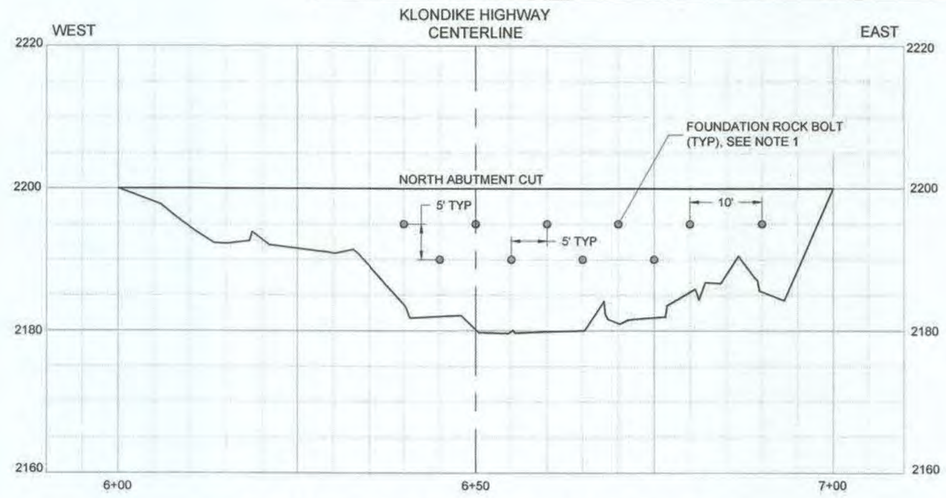
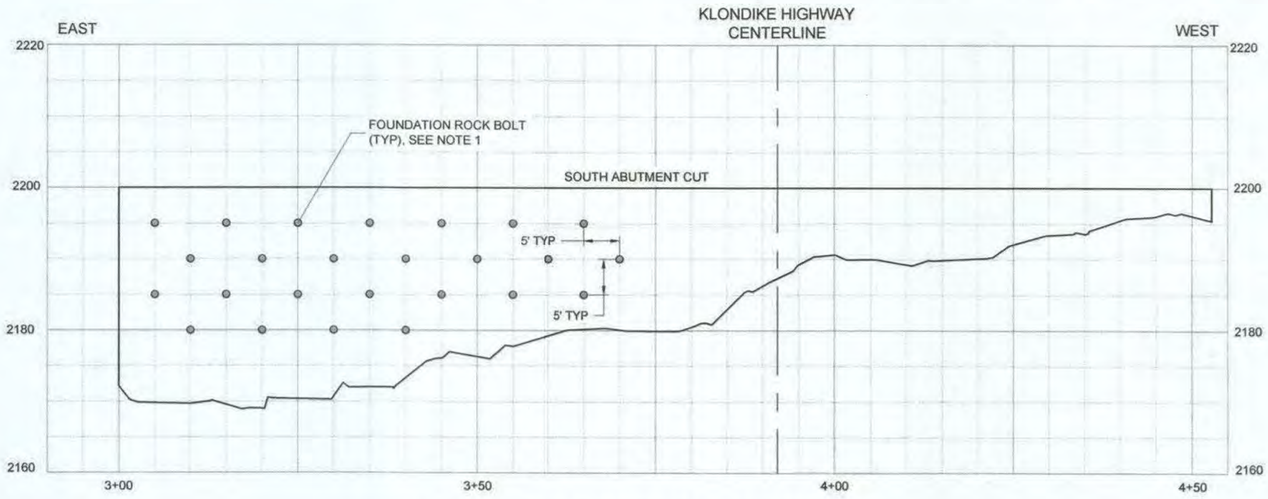




NORTH ABUTMENT FOUNDATION BOLT PROFILE



SOUTH ABUTMENT FOUNDATION BOLT PROFILE

TEMPORARY STABILIZATION NOTES:

1. LOCATE REINFORCING ROCK BOLTS WITHIN 18 INCHES OF THE LOCATIONS SHOWN ON THE 5-FT BY 5-FT PATTERN. LARGER ADJUSTMENTS MAY BE PROPOSED, BUT REQUIRE APPROVAL BY THE ENGINEER TO ASSURE THE STABILIZATION PATTERN MEETS REQUIRED REINFORCEMENT.
2. SEE DETAIL 1 AND 2, SHEET E6 FOR FOUNDATION ROCK BOLT DETAIL.

1 FOUNDATION ROCK BOLT PLAN AND PROFILE

SCALE AS NOTED

6/9/20

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STATE OF ALASKA
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AND PUBLIC FACILITIES

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FOUNDATION BOLT PLAN DETAILS

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STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0972016/Z684590000	2016	E3	59

SOUTH ABUTMENT FOUNDATION ROCK BOLTING NOTES:

1. FOUNDATION ROCK BOLT LOCATIONS SHOWN ON SHEET E2.
2. FOUNDATION ROCK BOLT LOCATIONS WILL BE ADJUSTED BY THE ENGINEER AFTER THE SOUTH ABUTMENT EXCAVATION IS COMPLETE.

LEGEND

NORTH ABUTMENT PHOTO LOCATION

6/9/20

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STATE OF ALASKA
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AND PUBLIC FACILITIES

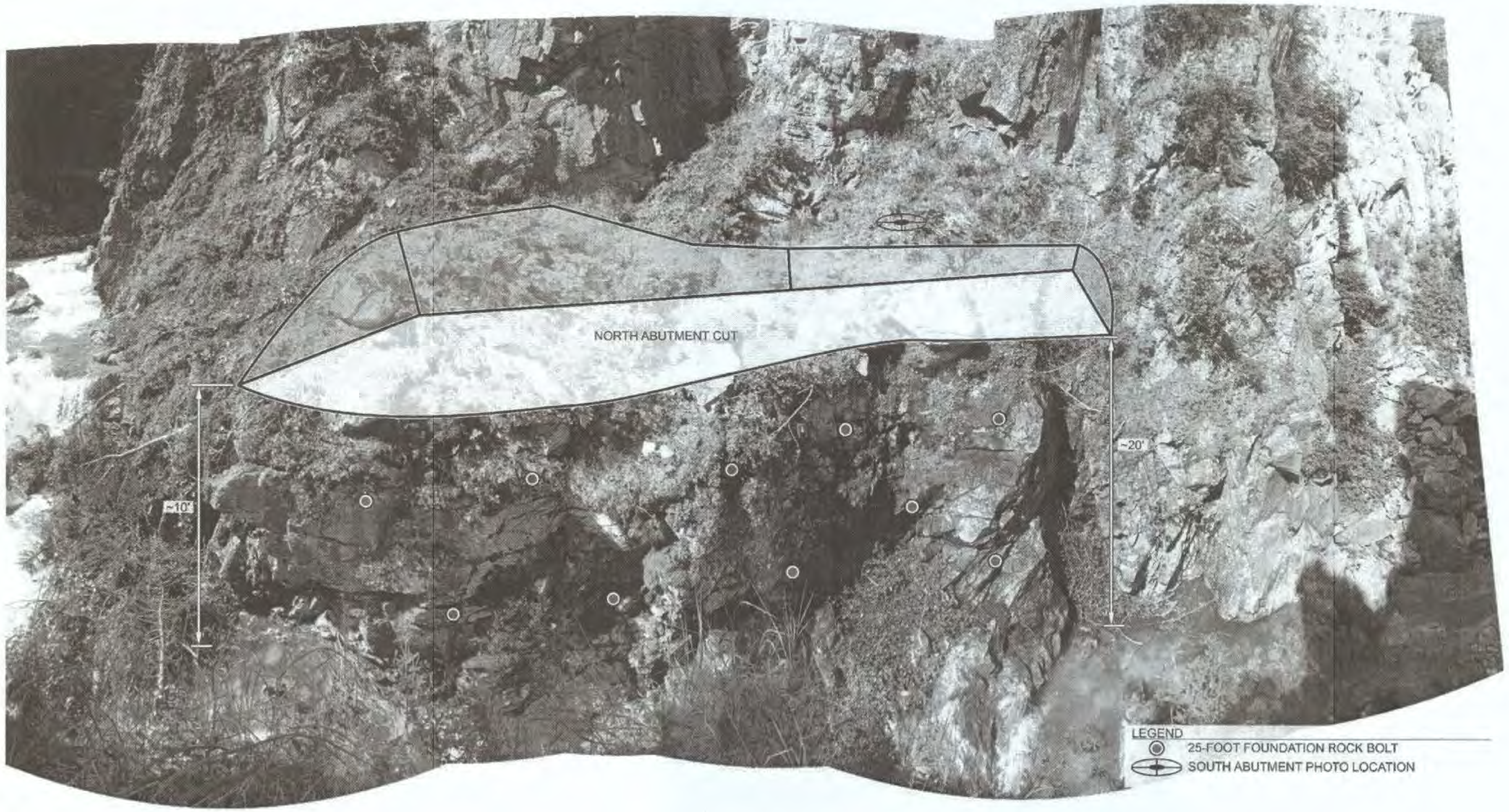
SKAGWAY - REPLACE CAPTAIN WILLIAM HENRY MOORE BRIDGE

SOUTH ABUTMENT FOUNDATION BOLTING

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0972016/Z684590000	2016	E4	59

NORTH ABUTMENT FOUNDATION ROCK BOLTING NOTES:

1. FOUNDATION ROCK BOLT LOCATIONS SHOWN IN PHOTO ARE APPROXIMATE. REFER TO FOUNDATION ROCK BOLT PLAN ON SHEET E2.
2. FOUNDATION ROCK BOLTS MAY BE ADJUSTED BY THE ENGINEER AFTER SCALING.
3. NORTH ABUTMENT FOUNDATION ROCK BOLTS TO BE INSTALLED AND TENSIONED PRIOR TO NORTH ABUTMENT CUT.



PLANS DEVELOPED BY:
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DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SKAGWAY - REPLACE CAPTAIN WILLIAM HENRY MOORE BRIDGE

NORTH ABUTMENT FOUNDATION BOLTING

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0972016/Z684590000	2016	E5	59

NORTH ABUTMENT ROCK BOLTING PHOTO NOTES:

1. PERFORM SCALING WORK PRIOR TO INSTALLING ROCK BOLTS, AS APPROVED BY THE ENGINEER.
2. ROCK BOLT LOCATIONS, ORIENTATION, AND LENGTHS ARE APPROXIMATE AND MAY BE MODIFIED DURING CONSTRUCTION BY THE ENGINEER.
3. ROCK BOLT LOCATIONS WITHIN TARGETED SCALING AREAS WILL BE ADJUSTED BY THE ENGINEER AFTER SCALING HAS BEEN COMPLETED.
4. PERFORM GENERAL SLOPE SCALING WITHIN 50 FEET OF CENTERLINE EACH WAY. PERFORM INTENSIVE SCALING IN AREAS INDICATED.

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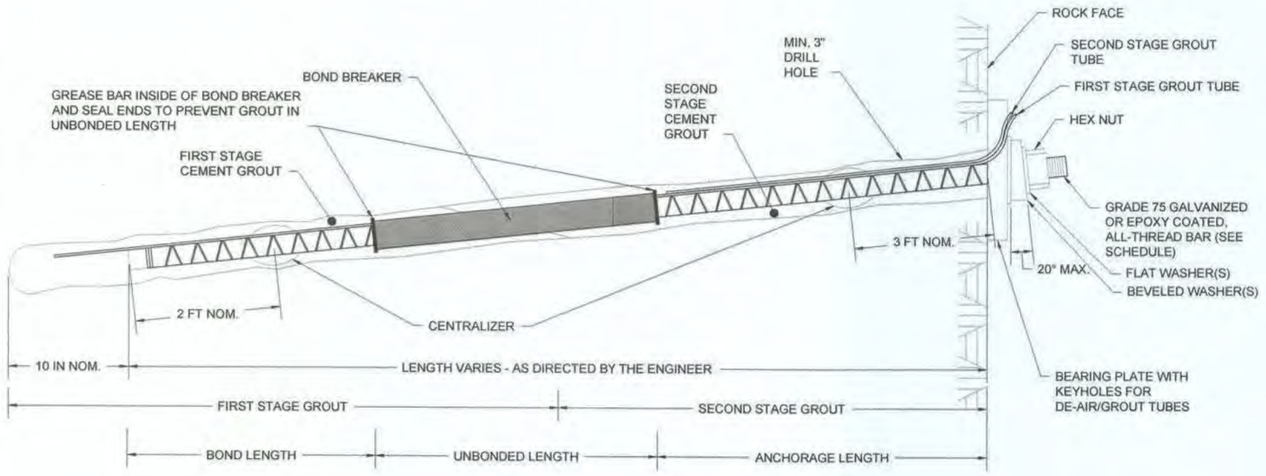
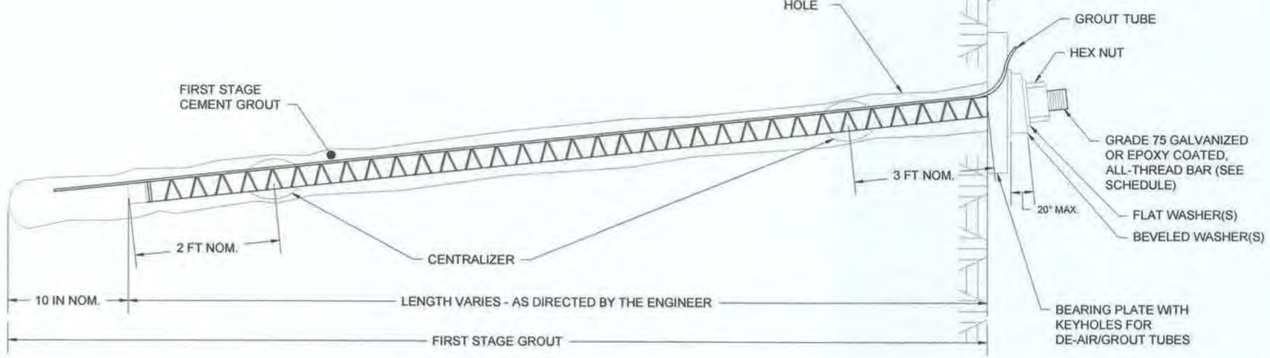
SKAGWAY - REPLACE CAPTAIN WILLIAM HENRY MOORE BRIDGE

NORTH ABUTMENT ROCK BOLTING

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0972016/Z684590000	2016	E6	59



1 FOUNDATION BOLT / ROCK BOLT DETAIL
NTS



2 ROCK DOWEL DETAIL
NTS

BOLT/DOWEL SIZE SCHEDULE					
TYPE	BOND LENGTH	UNBONDED LENGTH	ANCHORAGE LENGTH	GRADE	BAR SIZE
FOUNDATION ROCK BOLTS	10 FEET	10 FEET	5 FEET	75	MIN #11
ROCK BOLTS	5 FEET	8 FEET	VARIES	75	MIN #8
ROCK DOWEL	VARIES	N/A	N/A	75	MIN #8

NOTES:
1. BOND LENGTH ASSUMES 3 INCH MINIMUM HOLE DIAMETER DRILLED USING ROTARY PERCUSSION TECHNIQUES. CONTRACTOR IS RESPONSIBLE FOR MODIFYING BOND LENGTHS TO SUIT THEIR SELECTED DRILLING TECHNIQUE AND HOLE DIAMETER.
2. FOR NORTH ABUTMENT ROCK BOLT LENGTHS, SEE DRAWING E5.
3. LOCATION OF SOUTH APPROACH ROCK BOLTS AND DOWELS WILL BE DETERMINED IN THE FIELD FOLLOWING BLASTING AND SCALING.
4. LENGTH AND LOCATION OF SOUTH APPROACH ROCK BOLTS AND ROCK DOWELS WILL BE DETERMINED IN THE FIELD AFTER BLASTING AND SCALING, BUT WILL BE NO LESS THAN 15 FEET AND WILL NOT EXCEED 40 FEET.
5. MINIMUM BAR SIZES REQUIRED. CONTRACTOR MAY USE DIFFERENT BAR PROVIDED IT IS ABLE TO OBTAIN THE TEST LOAD WITHOUT BENDING OR YIELDING.

BOLT/DOWEL TESTING SCHEDULE		
TYPE	TEST LOAD	LOCK-OFF LOAD
FOUNDATION ROCK BOLTS	96 KIPS	80 KIPS
ROCK BOLTS	48 KIPS	40 KIPS
ROCK DOWEL	10 KIPS	10 KIPS

NOTES:
1. INSTALL ROCK BOLTS AT THE LOCATIONS, ORIENTATIONS, AND LENGTHS AS DETERMINED BY THE ENGINEER IN THE FIELD.
2. ORIENT THE KEYHOLES ON BEARING PLATE UPWARD FOR MAXIMUM GROUT RETENTION.
3. FIRST STAGE GROUT TO FILL ROCK BOLT BOND LENGTH AND HALF OF UNBONDED LENGTH.
4. SECOND STAGE GROUT ROCK BOLT FOLLOWING SUCCESSFUL TESTING AND LOCK-OFF.

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FOUNDATION AND ROCK BOLT AND ROCK DOWEL DETAILS

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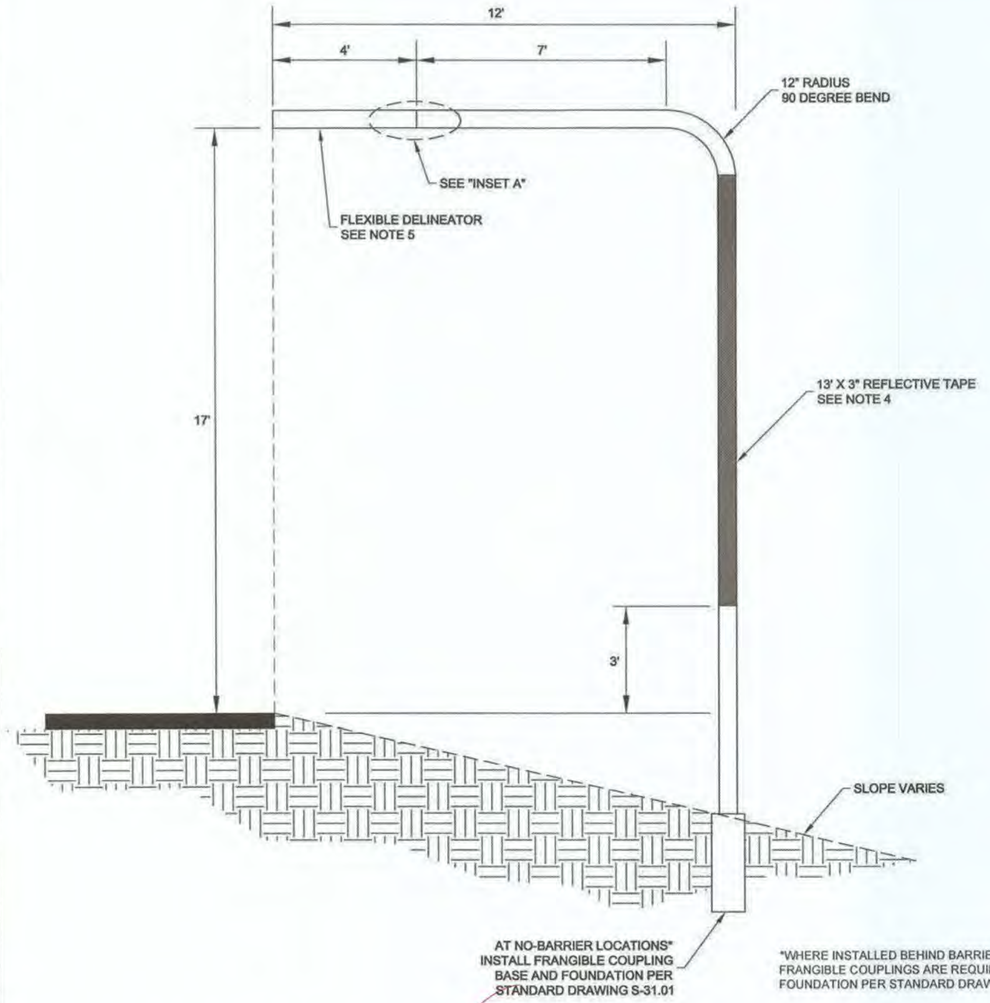
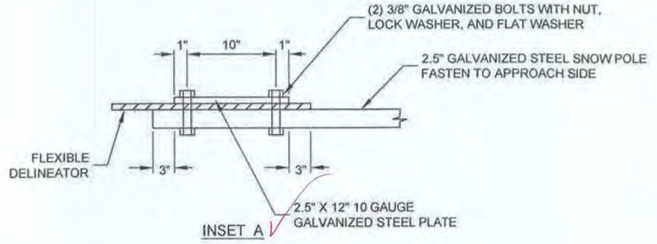


1 **OVERHEAD SNOW POLE**

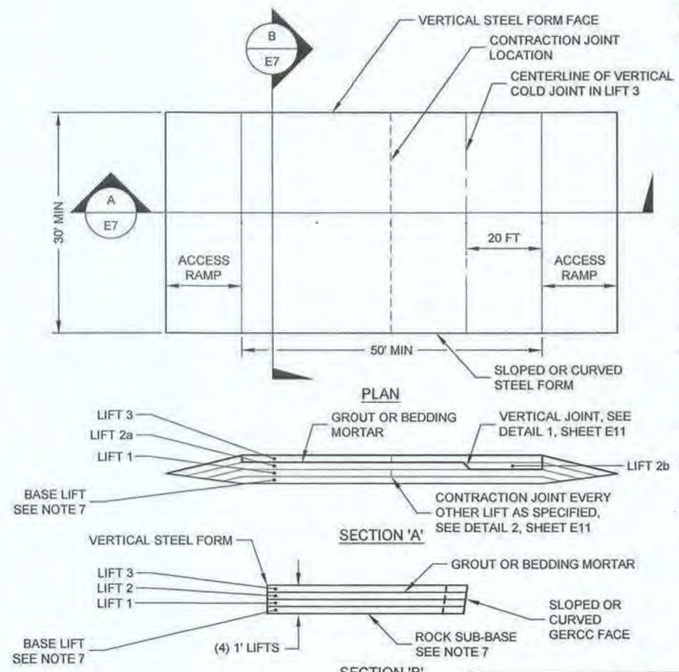
NTS

NOTES:

1. INSTALL SNOW POLES AT LOCATIONS INDICATED ON THE PLANS. LOCATIONS ARE SUBJECT TO ADJUSTMENT IN THE FIELD BY THE ENGINEER.
2. STAKE SNOW POLE LOCATIONS PRIOR TO INSTALLATION, PROVIDE THE ENGINEER 7 DAYS TO REVIEW AND ADJUST SNOW POLE LOCATIONS PRIOR TO INSTALLATION
3. SNOW POLES ARE 2.5-IN SCHEDULE 80 GALVANIZED STEEL PIPE.
4. REFLECTIVE TAPE MUST MATCH COLOR OF EDGE LINE.
5. FLEXIBLE DELINEATOR FOR SNOW POLES PER 615-2.01. INSTALL 36" X 4" WHITE REFLECTOR ON APPROACH SIDE AND 12 X 4" WHITE REFLECTOR ON DEPARTURE SIDE.
6. DRILL ALL BOLT HOLES. COAT HOLES WITH ZINC RICH PAINT. FLAME CUTTING IS NOT PERMITTED.
7. USE FRANGIBLE COUPLING SYSTEM FOR SQUARE STEEL TUBES DETAIL PER STANDARD DRAWING S-31.01 WITH THE FOLLOWING MODIFICATIONS (APPLIES ONLY TO SNOW POLES):
   - 7.1. FOUNDATION SIZE AND REINFORCEMENT PER FOUNDATION TABLE WILL BE EQUIVALENT TO 2 1/2" TUBE.
   - 7.2. ADD BRACKET ADAPTORS AT BASE TO MAKE BOLT ON FLANGES FIT WITH PIPE POSTS. NOTE 10 ON STANDARD DRAWING S-31.01 APPLIES TO THESE BRACKETS.
   - 7.3. DELETE FRANGIBLE FUSE PLATE AND POST HINGE.



INSET A



PLAN

SECTION 'A'

SECTION 'B'

RCC TEST SECTION CONSTRUCTION NOTES:

1. PRIOR TO THE START OF RCC PLACEMENT IN THE TEST SECTION CONSTRUCTION, TEST STRIPS SHALL BE CONSTRUCTED TO EVALUATE PERFORMANCE OF THE RCC MIX AND COMPACTION EQUIPMENT. RCC SPECIFICATION 514-305(e).
2. IN ADDITION TO THE PROCEDURES SHOWN IN THE DETAIL THE FOLLOWING PROCEDURES WILL BE EVALUATED DURING TEST SECTION CONSTRUCTION:
   - A. BATCH PLANT OPERATION
   - B. DELIVERY, DUMPING AND SPREADING OF RCC
   - C. DAYTIME AND OVERNIGHT CURING
3. CONTRACTOR SHALL LOCATE THE TEST SECTION AT WASTE SITE AREA B. CONTRACTOR TO COORDINATE WITH PROJECT ENGINEER FOR EXACT LOCATION.
4. CALIBRATION OF THE PLANT AND EQUIPMENT, PERFORMANCE OF UNIFORMITY TESTING, AND TEST STRIPS SHALL BE SATISFACTORILY PERFORMED PRIOR TO THE TEST SECTION.
5. ACCESS RAMPS MAY BE RCC OR COMPACTED AGGREGATE BASE.
6. INSTALL A STARTER PIPE FOR WIRE SAWING AT LOCATION DIRECTED BY THE ENGINEER.
7. IF A ROCK SUB-BASE IS NOT AVAILABLE, A BASE LIFT OF RCC PLACED ON A COMPACTED AGGREGATE BASE MAY BE USED.
8. FORMING SHALL BE CONSISTENT WITH THE SYSTEM TO BE USED DURING THE BRIDGE CONSTRUCTION.
9. BRIEF MEETINGS WILL BE HELD PRIOR TO STARTING THE TEST SECTION AND EACH LIFT TO DISCUSS METHODS AND EQUIPMENT TO BE USED FOR THAT LIFT. DURING THE INITIAL MEETING THE SCOPE AND ACTIVITIES MAY BE ADJUSTED BY THE ENGINEER BASED ON DISCUSSIONS WITH THE CONTRACTOR. IN ADDITION A MEETING WILL FOLLOW THE TEST SECTION TO DISCUSS HOW FINDINGS WILL BE APPLIED DURING RCC CONSTRUCTION.
10. WIRE SAWING SHALL BE DONE 14 TO 21 DAYS AFTER FINAL TEST SECTION RCC PLACEMENT.

PROCEDURES TABLE

DAY	LIFT NO.	OPERATIONS
1	1	A. ROCK SURFACE PREPARATION INCLUDING BEDDING MORTAR APPLICATION. B. GERCC AT FORM FACES C. CONTRACTION JOINT INSTALLATION
1	2a	A. LIFT JOINT PREPARATION (HOT JOINT) B. OPTIMUM COMPACTION DENSITY TEST C. GERCC AT FORM FACES D. TERMINATE LIFT 20 FEET FROM END OF TEST SECTION E. INSTALL VERTICAL JOINT
2	2b	A. LIFT JOINT PREPARATION WITH GROUT (COLD JOINT) B. GERCC AT FORM FACES C. DENSITY TESTS
2	3	A. LIFT JOINT PREPARATION WITH GROUT (COLD JOINT - TOP OF LIFT 2a) B. LIFT JOINT PREPARATION (HOT JOINT - TOP OF LIFT 2b) C. DENSITY TESTS D. GERCC AT FORMED FACES E. CONTRACTION JOINT INSTALLATION

2 **RCC TEST SECTION CONSTRUCTION**

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JN 6/9/20

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SKAGWAY - REPLACE CAPTAIN WILLIAM HENRY MOORE BRIDGE

RCC TEST SECTION AND SNOW POLE DETAILS

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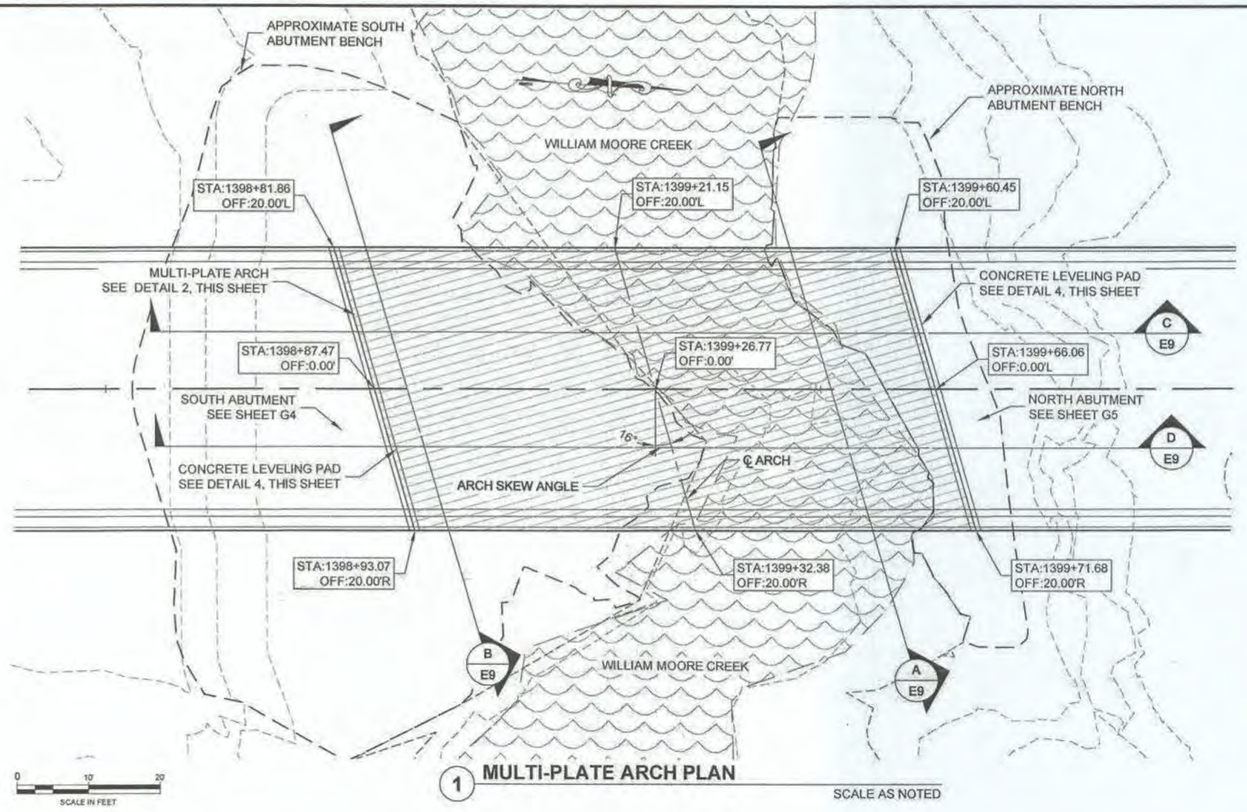
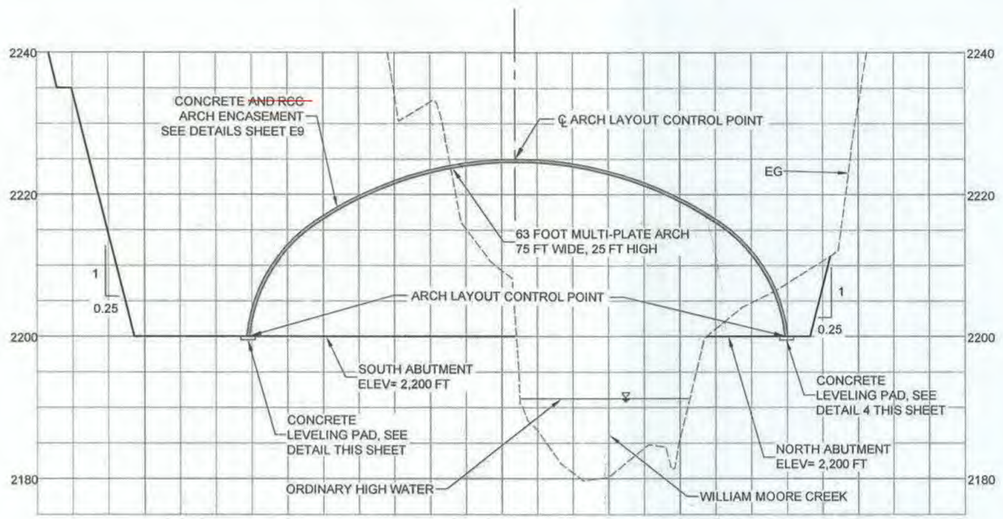


1 **MULTI-PLATE ARCH PLAN**

SCALE AS NOTED

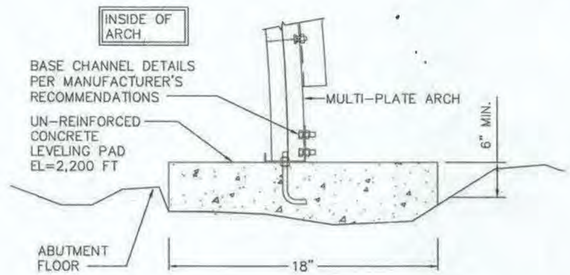


2 **MULTI-PLATE ARCH SECTION**

SCALE AS NOTED

HYDRAULIC AND HYDROLOGIC SUMMARY - WILLIAM MOORE CREEK				
DRAINAGE AREA	11.9 SQUARE MILES			
EXCEEDENCE PROBABILITY	2% (DESIGN EVENT)	1%	0.2%	REGULATORY FLOOD
RETURN PERIOD	50 YEAR (Q50)	100 YEAR (Q100)	500 YEAR (Q500)	N/A
DESIGN DISCHARGE	1,810 CFS	2,060 CFS	2,660 CFS	N/A
DESIGN HIGH WATER ELEVATION	2,200.1	2,201.0	2,202.2	N/A
ANTICIPATED ADDITIONAL BACKWATER AT Q100 = 0.0 FEET				

3 **HYDRAULIC DATA**



4 **MULTI-PLATE ARCH CONCRETE LEVELING PAD**

NTS

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SKAGWAY - REPLACE CAPTAIN WILLIAM HENRY MOORE BRIDGE

MULTI-PLATE ARCH DETAILS

DATE | 8/17/2016 7:00 | LAYOUT | E8 | DESIGNED | HOBBS | CHECKED | NOBLE | DRAFTED | WESTPHAL

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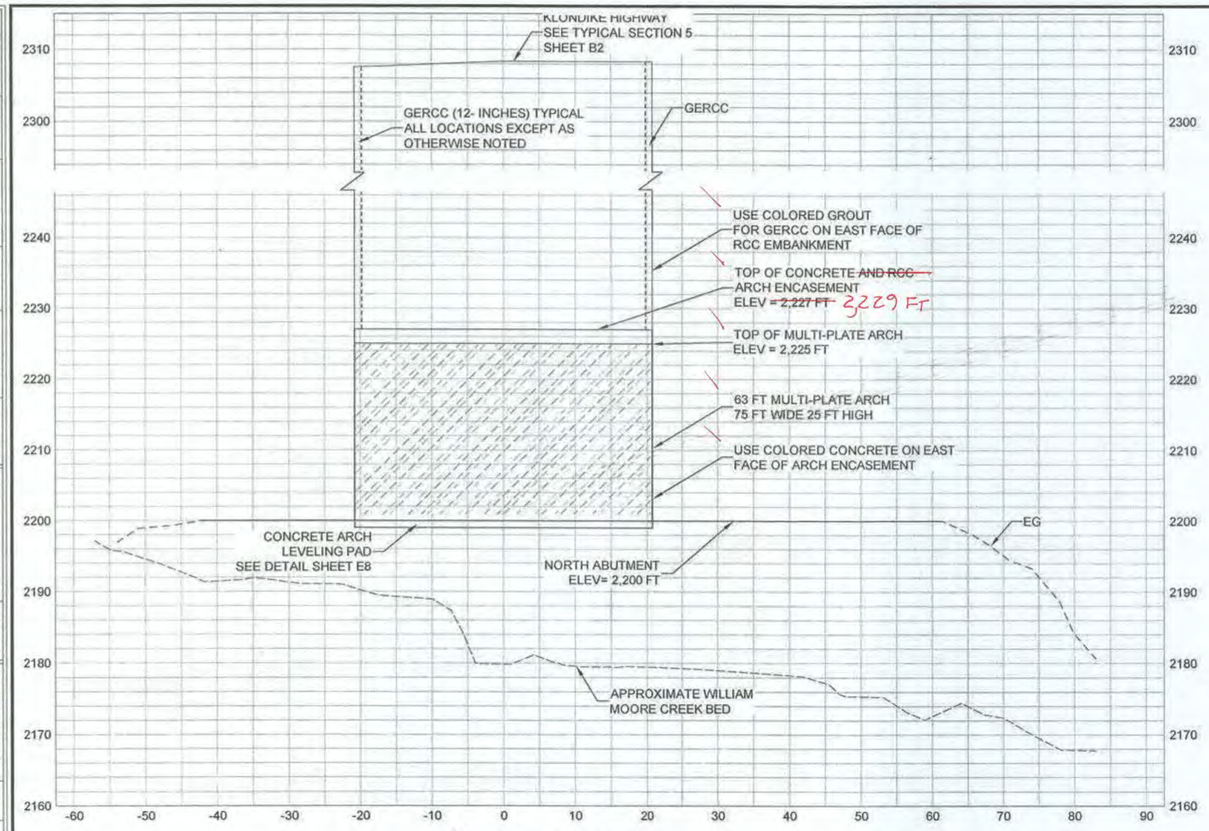
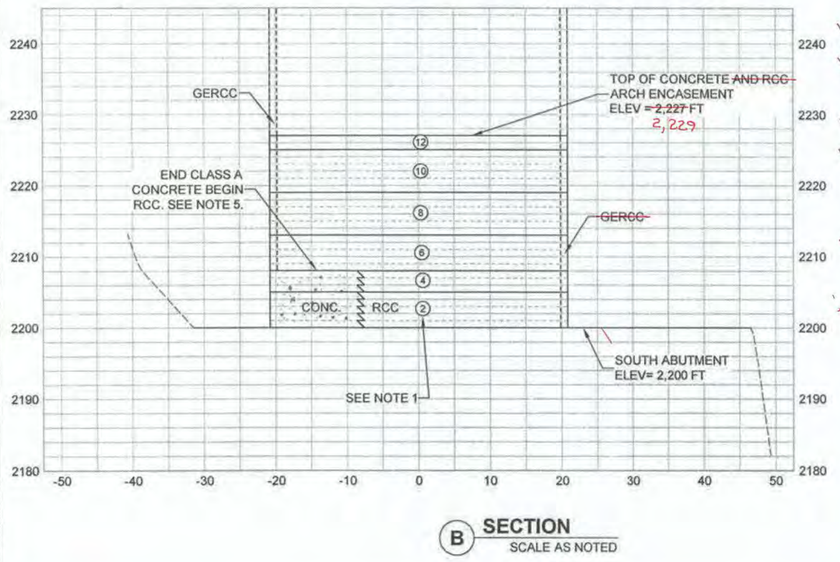
			ALASKA	0972016/Z684590000	2016	E9	59



A **SECTION**
SCALE AS NOTED

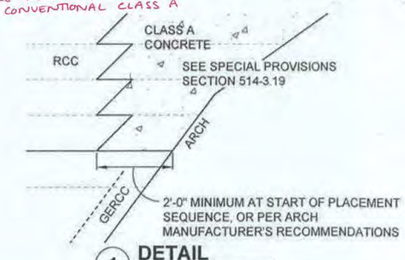


B **SECTION**
SCALE AS NOTED

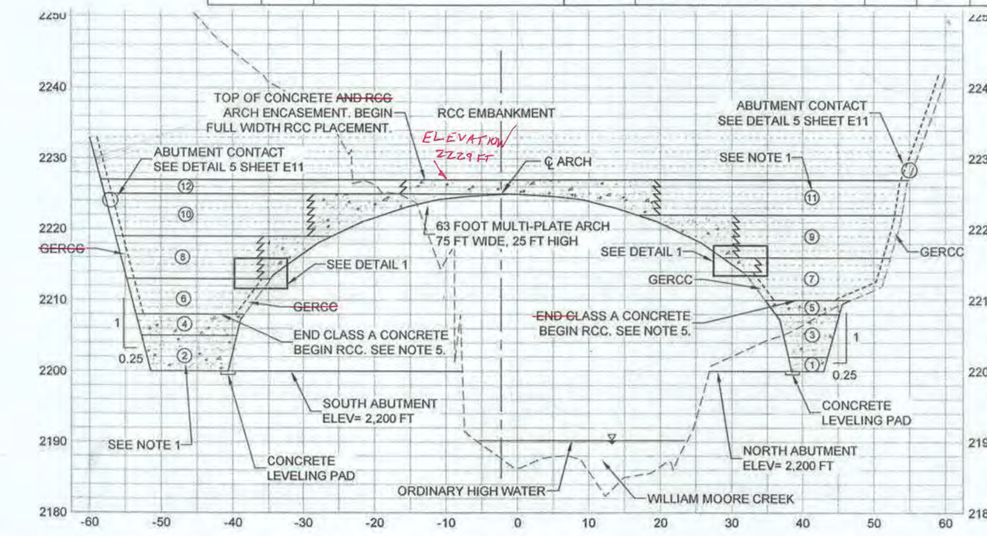
NOTES:

1. REFER TO MANUFACTURER'S RECOMMENDATIONS FOR ARCH ENCASEMENT PLACEMENT SEQUENCING. NUMBERS SHOWN ON PLACEMENT ZONES REPRESENT A SUGGESTED PLACING SEQUENCE THAT WILL MAINTAIN A 3 FOOT MAXIMUM DIFFERENTIAL FROM SIDE TO SIDE OF THE ARCH.
2. GERCC AND CONCRETE FACING SHALL BE USED IN DESIGNATED AREAS AS SHOWN IN SECTIONS B, C, AND D.
3. EQUIPMENT SHALL NOT BE OPERATED AND RCC SHALL NOT BE PLACED OVER THE TOP OF THE ARCH UNTIL THE UNDERLYING CONCRETE ACHIEVES ADEQUATE DESIGN STRENGTH AS DETERMINED BY THE ARCH MANUFACTURER.
4. VIBRATORY ROLLERS SHALL AT ALL TIMES REMAIN A MINIMUM OF 12-INCHES FROM THE ARCH.
5. USE CLASS A CONCRETE INSTEAD OF RCC WHERE RCC COMPACTION EQUIPMENT WON'T FIT BETWEEN THE ROCK SLOPE AND ARCH. THE NORTH SIDE OF THE ARCH REQUIRES CONCRETE UP TO 2210 FT ELEVATION FOR THE LENGTH OF THE ARCH. THE SOUTH SIDE OF THE ARCH REQUIRES CONCRETE UP TO 2208 FT ELEVATION (ONLY ON THE WEST END) AS SHOWN IN SECTION B.
6. THERE ARE ISOLATED AREAS WHERE THERE MAY BE OVERHANGING ROCK AT THE ABUTMENT FACE. THE WIDTH OF GERCC SHALL BE INCREASED AS NECESSARY TO ALLOW ROOM FOR COMPACTION EQUIPMENT.

+ PER MANUFACTURER'S RECOMMENDATIONS, ARCH ENCASED IN CONVENTIONAL CLASS A CONCRETE.



1 **DETAIL**
NTS



C **SECTION**
SCALE AS NOTED

D **SECTION**
SCALE AS NOTED

6/9/20

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RCC EMBANKMENT AND ARCH ENCASEMENT DETAILS

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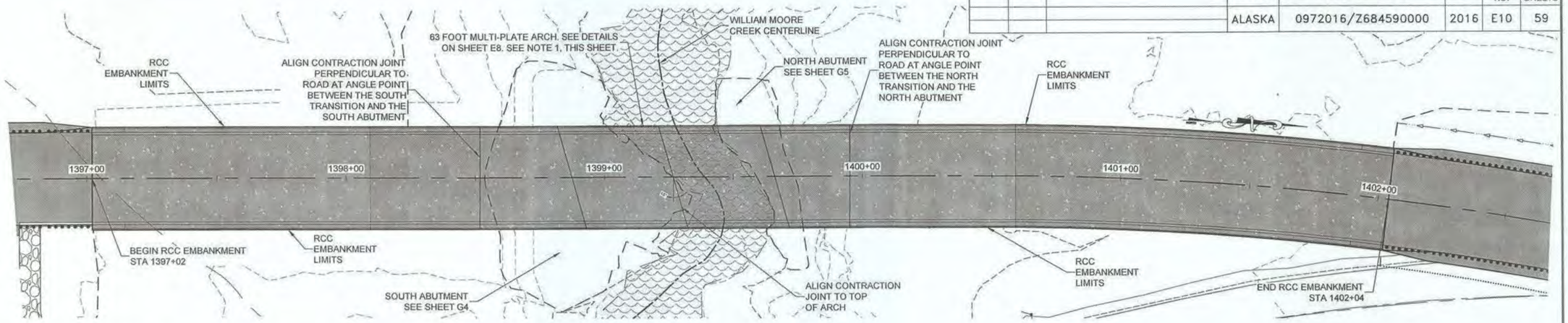
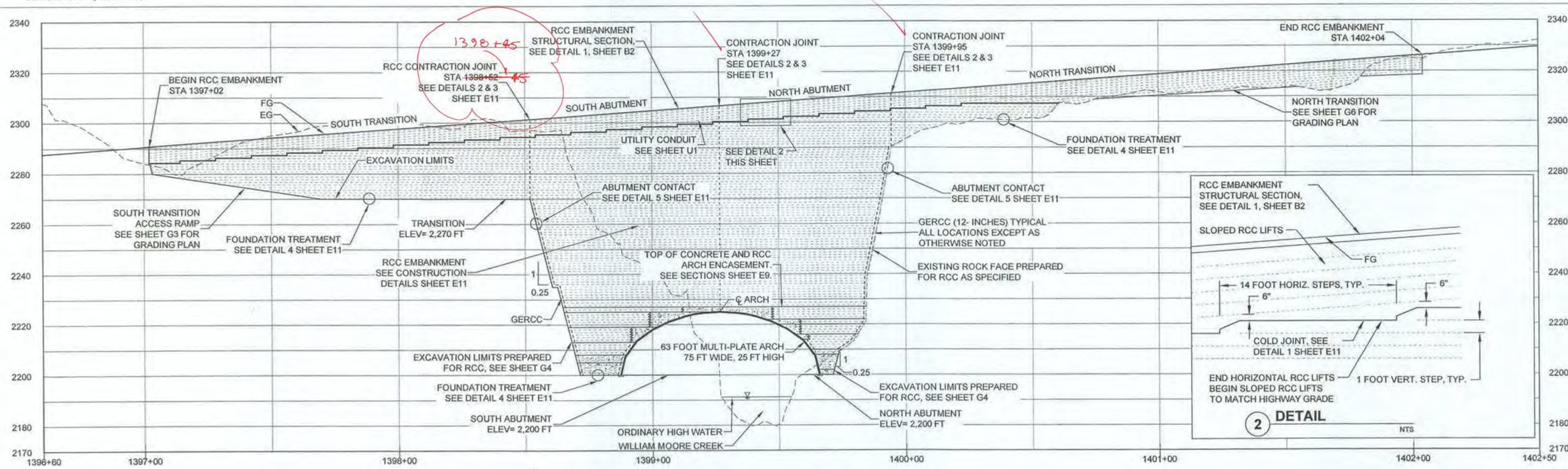
			ALASKA	0972016/Z684590000	2016	E10	59



NOTE:

1. THE FULL LENGTH OF THE MULTI-PLATE ARCH IS 63 FEET. THE ARCH IS SKEWED TO FIT THE ROCK ABUTMENTS AND MUST BE CUT AT EACH END TO BE PARALLEL WITH THE KLONDIKE HIGHWAY.
2. PLACE CONTRACTION JOINT MATERIAL IN EVERY OTHER LIFT. SEE DETAIL 2 AND 3 , SHEET E11.

0 20' 40'
SCALE IN FEET



1 RCC EMBANKMENT PLAN AND PROFILE DETAIL

SCALE AS NOTED

2 DETAIL

NTS

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RCC EMBANKMENT DETAILS

DESIGNED HOBBS | DRAFTED WESTPHAL | CHECKED NOBLE | LAYOUT E10 | DATE 8/17/2016 7:22 | FILE C:\Civil 3D Projects\24\70732-01\Civil\SA14-GT-E-DT-GWHM.dwg

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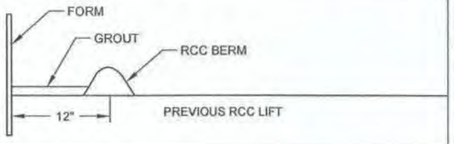
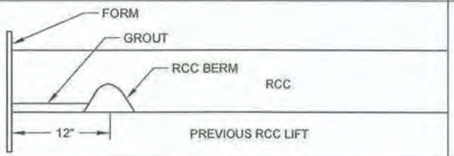
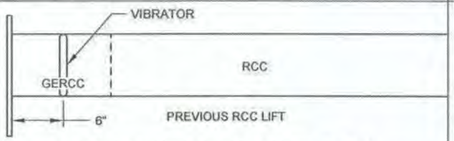
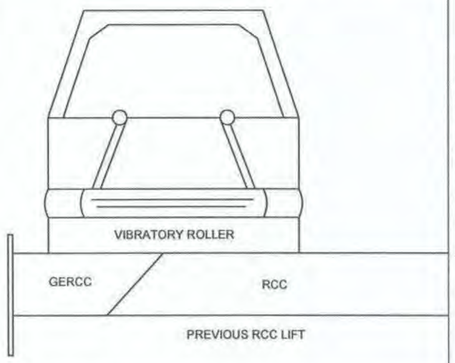
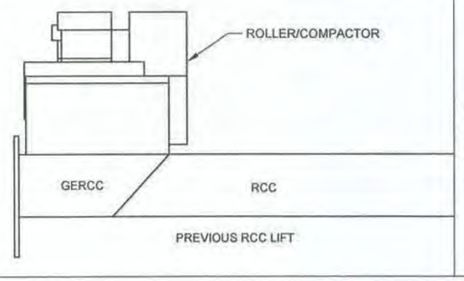
			ALASKA	0972016/Z684590000	2016	E11	59

GERCC PLACEMENT PROCEDURE AGAINST VERTICAL FORM WORK, ARCH, OR ABUTMENT

1		PLACE RCC BERM 12" FROM FORM TO CONTAIN THE GROUT. APPROXIMATE QUANTITY FOR THE RCC BERM IS 1.0 GAL/FT OR ENOUGH TO CONTAIN THE GROUT.
2		PLACE RCC OVER THE GROUT IN AN EVEN LAYER
3	 CONSOLIDATION OF GERCC IS ACCOMPLISHED BY EMBEDDING THE INTERNAL VIBRATORS UNTIL THE GROUT FILLS ALL VOIDS IN THE RCC. VIBRATION IS COMPLETE WHEN GROUT IS VISIBLE ALONG THE ENTIRE FORM CONTACT WITH THE GERCC/RCC AT THE TOP OF THE LIFT.	INTERNAL VIBRATORS ARE INSERTED VERTICALLY 6" FROM THE FORM. WITHDRAW THE VIBRATOR SLOWLY TO PREVENT LEAVING A VOID. VIBRATORS SHALL BE GANG MOUNTED ON TRACTOR OR BACKHOE.
4		CONSOLIDATION OF RCC SHALL BE DONE BY VIBRATORY ROLLER AS CLOSE AS POSSIBLE TO THE FORM. PRIMARY VIBRATORY ROLLERS SHALL NOT BE OPERATED ANY CLOSER THAN 12-INCHES FROM THE MULTI-PLATE ARCH. IF NECESSARY, POUR GROUT ALONG THE CONTACT OF THE RCC PLACEMENT LIFT AND FORM SURFACE IF ADEQUATE GROUT DID NOT APPEAR DURING VIBRATION TASK.
5		CONSOLIDATE GERCC NEAR FORM WITH A WALK BEHIND ROLLER OR VIBRATORY PLATE COMPACTOR.

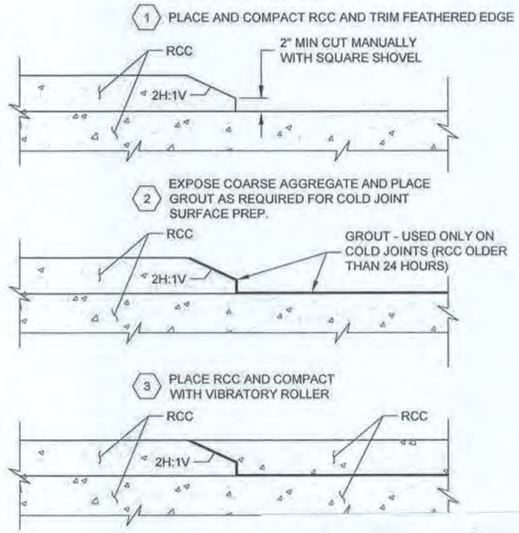
CONTRACTION JOINT NOTES:

1. INSTALL CONTRACTION JOINT MATERIAL AT EVERY OTHER RCC LIFT EXTENDING FROM RIGID CONTRACTION JOINT MATERIAL THROUGH RCC.
2. INSTALL RIGID CONTRACTION JOINT MATERIAL IN EVERY LIFT AT THE FORMED FACE EXTENDING FROM THE FORMED FACE THROUGH THE GERCC.

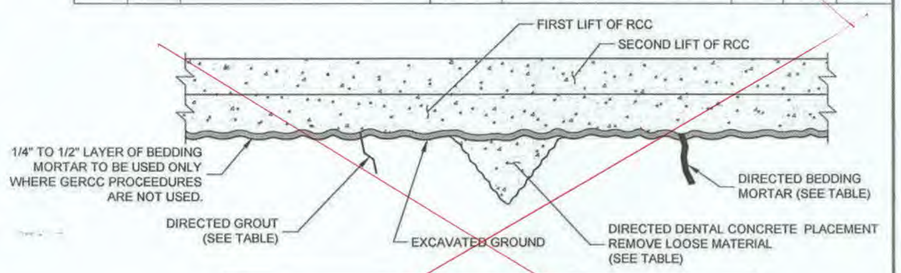
1 PLACE AND COMPACT RCC AND TRIM FEATHERED EDGE

2 EXPOSE COARSE AGGREGATE AND PLACE GROUT AS REQUIRED FOR COLD JOINT SURFACE PREP.

3 PLACE RCC AND COMPACT WITH VIBRATORY ROLLER



2 RCC CONTRACTION JOINT
NTS



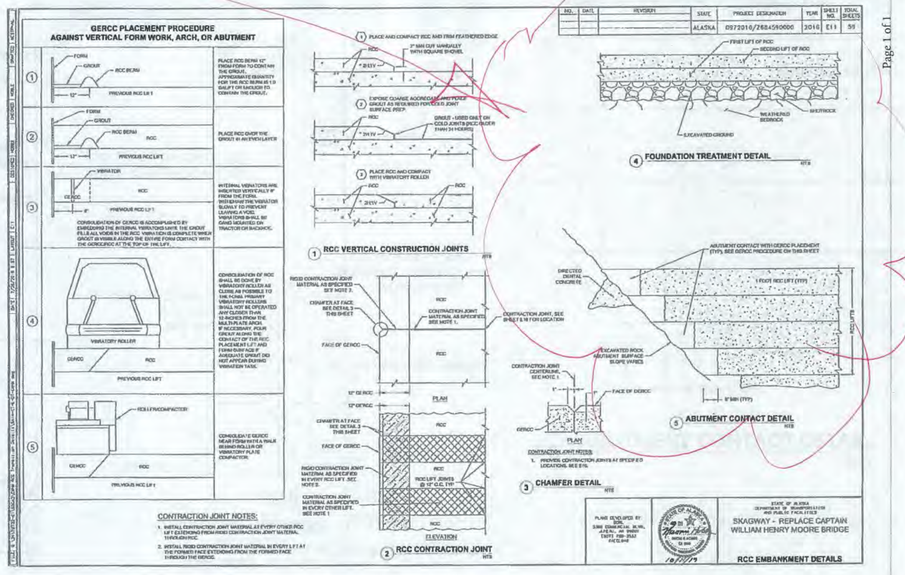
TREATMENT TABLE

WIDTH OF DEFECT	TREATMENT	MIN DEPTH OF TREATMENTS
< 0.5"	GROUT	6 INCHES
0.5" TO 3.0"	BEDDING MORTAR	3X WIDTH
> 3.0"	DENTAL CONCRETE	3X WIDTH

NOTE: REMOVE LOOSE MATERIAL FROM CRACKS AND JOINTS PRIOR TO FILLING

4 FOUNDATION TREATMENT DETAIL
SEE ATTACHED A1
NTS

co#12



Page 1 of 1

Skagway Replace CWHM Bridge 0972016/Z684590000 Change Order 12 Attachment "2"

Page 1 of 1

PLANS DEVELOPED BY:
DOWL
5368 COMMERCIAL BLVD.
JUNEAU, AK 99801
(907) 780-3533
#AECL848

NAOMI R. HOBBS
CE 9959
REGISTERED PROFESSIONAL ENGINEER
8-17-2016

AND PUBLIC FACILITIES
SKAGWAY - REPLACE CAPTAIN WILLIAM HENRY MOORE BRIDGE

RCC EMBANKMENT DETAILS

FILE C:\Civil 3D Projects\247070732-01\Civil\SA14-CT-E-DT-CWHM.dwg | DATE 8/17/2016 7:22 | LAYOUT E11 | DESIGNED HOBBS | CHECKED NOBLE | DRAFTED WESTPHAL

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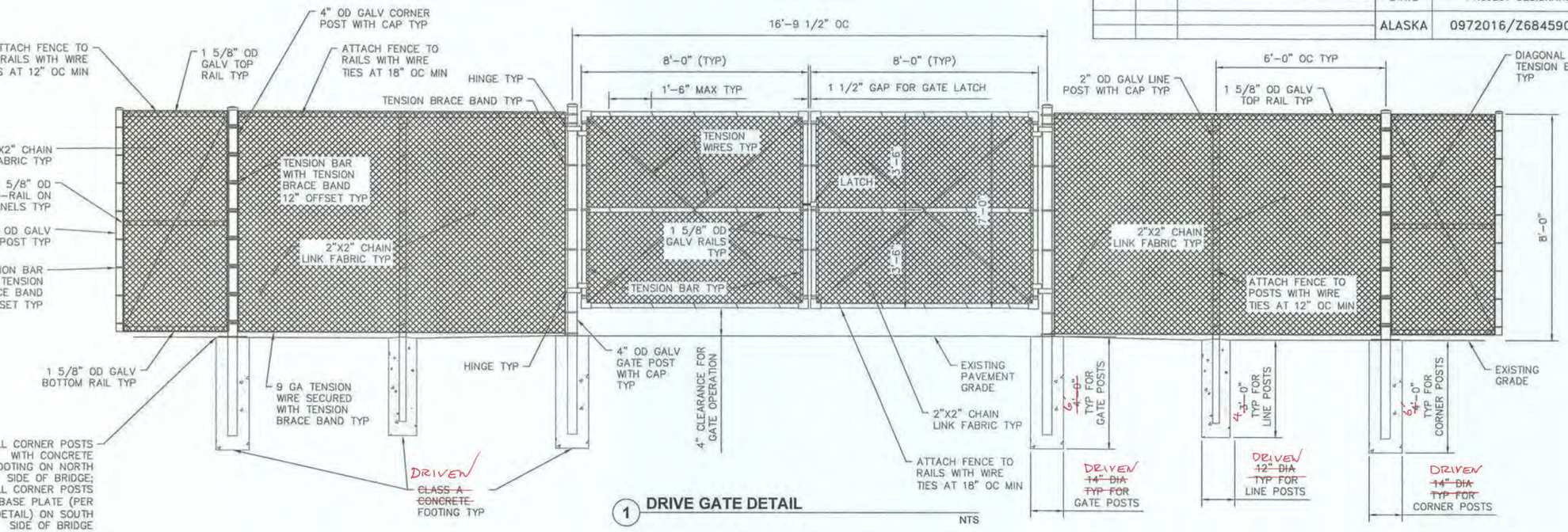
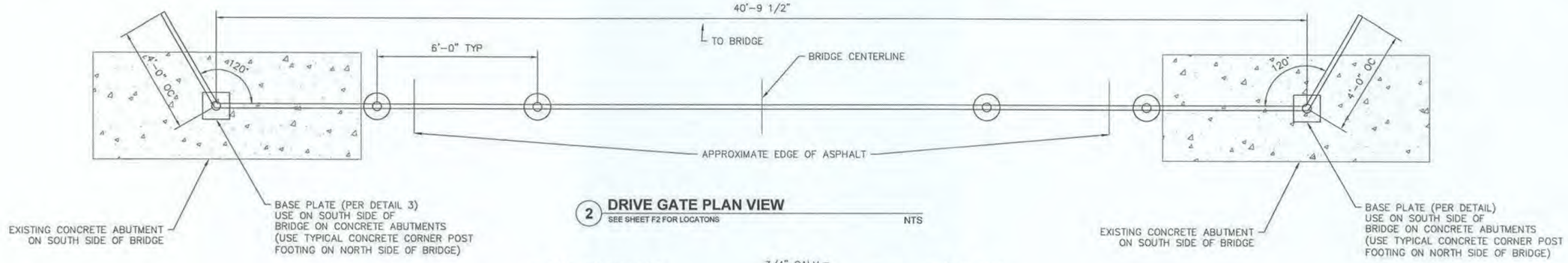
			ALASKA	0972016/Z684590000	2016	E12	59

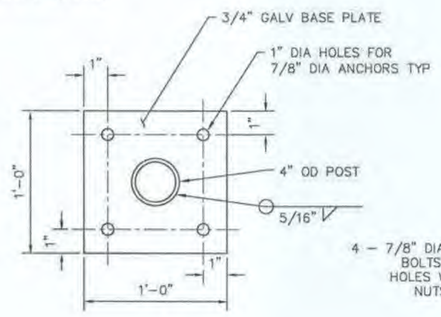


1 DRIVE GATE DETAIL NTS

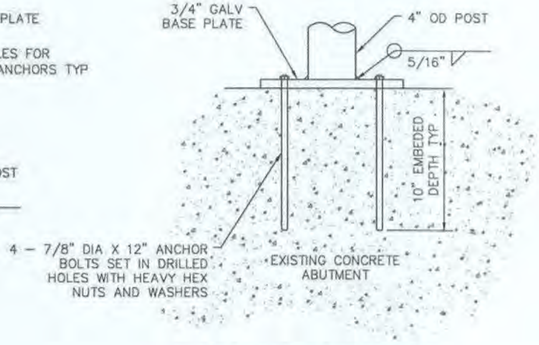
Type text here



2 DRIVE GATE PLAN VIEW NTS
SEE SHEET F2 FOR LOCATONS



3 BASE PLATE PLAN NTS



4 BASE PLATE SECTION NTS

JW 6/9/20

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DOWL
5368 COMMERCIAL BLVD.
JUNEAU, AK 99801
(907) 780-3533
#AECL848

STATE OF ALASKA
49TH
NAOMI R. HOBBS
CE 9959
REGISTERED PROFESSIONAL ENGINEER
8-17-2016

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

SKAGWAY - REPLACE CAPTAIN WILLIAM HENRY MOORE BRIDGE

DRIVE GATE DETAILS

FILE C:\Civil 3D Projects\24\70732-01\Civil\SA14-CT-E-07-CWM.dwg | DATE 8/17/2016 7:22 | LAYOUT E12 | DESIGNED HOBBS | CHECKED NOBLE | DRAFTED WESTPHAL

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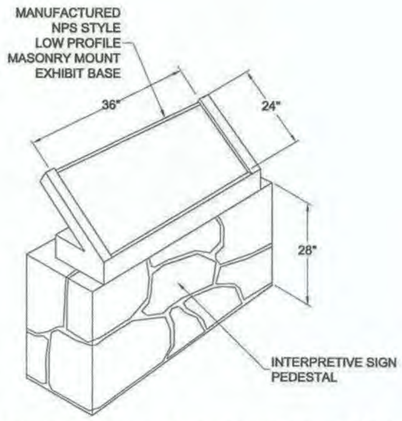
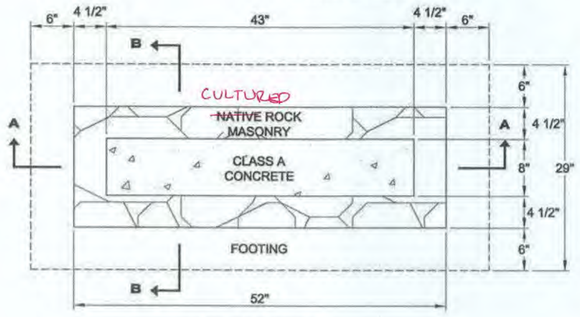
			ALASKA	0972016/Z684590000	2016	E13	59

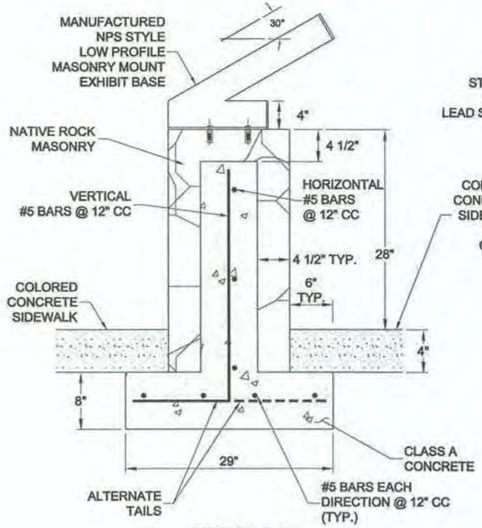


1 CONCEPTUAL INTERPRETIVE SIGN EXHIBIT
NTS

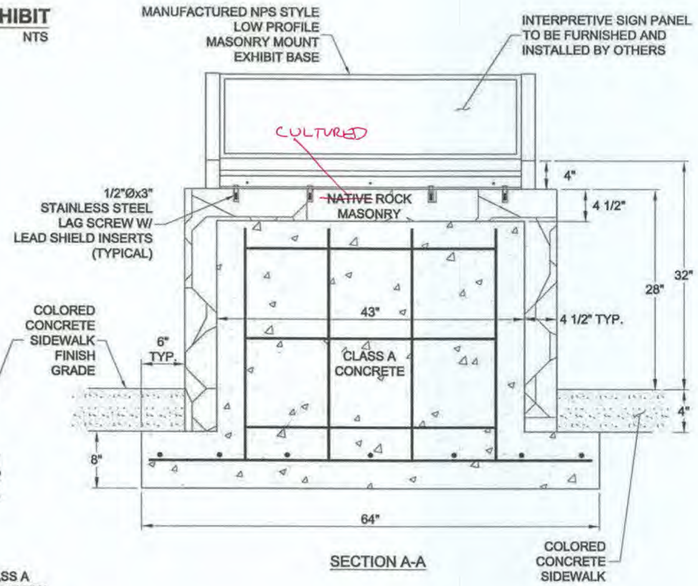
NOTE: MANUFACTURED LOW PROFILE MASONRY MOUNT EXHIBIT BASE NOT SHOWN FOR CLARITY.



PLAN VIEW

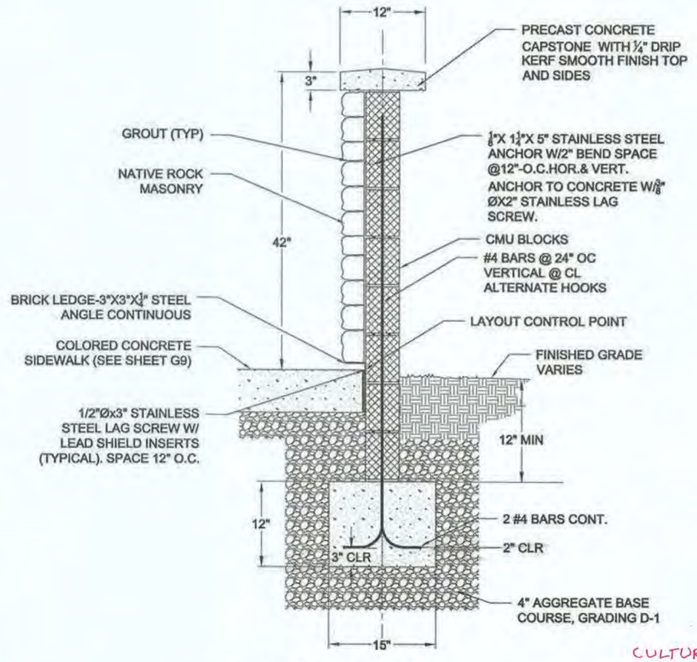


SECTION B-B

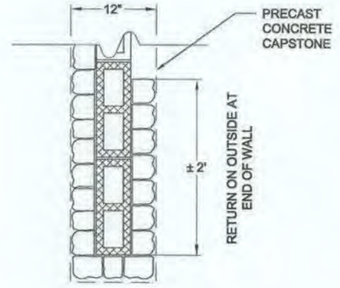


SECTION A-A

2 INTERPRETIVE SIGN PEDESTAL-TYPE MASONRY
NTS

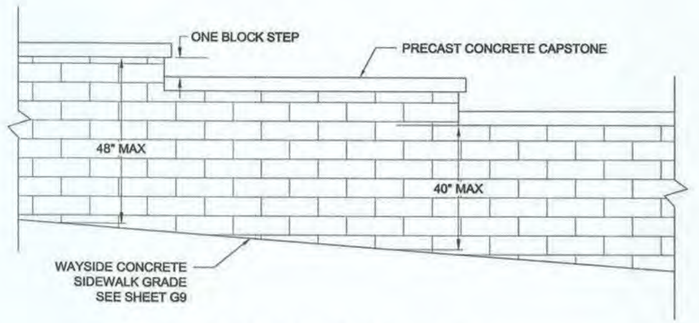


3 CMU BLOCK WALL
NTS



PLAN VIEW

CULTURED
~~NATIVE~~ ROCK MASONRY WALL END TREATMENT
NTS



NOTES:
1. CONTRACTOR SHALL CONSTRUCT CMU BLOCK WALLS LEVEL. HEIGHT OF CMU BLOCK WALL MAY VARY BETWEEN 40" AND 48". CONTRACTOR SHALL STEP THE WALL AT ONE-BLOCK INTERVALS AT REQUIRED LOCATIONS DETERMINED BY THE CONTRACTOR.

5 CMU BLOCK WALL ELEVATION VIEW
NTS

✓ Skagway 6/9/20

PLANS DEVELOPED BY:
DOWL
5368 COMMERCIAL BLVD.
JUNEAU, AK 99801
(907) 780-3533
#AECL848

STATE OF ALASKA
49TH
NAOMI R. HOBBS
CE 9959
REGISTERED PROFESSIONAL ENGINEER
8-17-2016

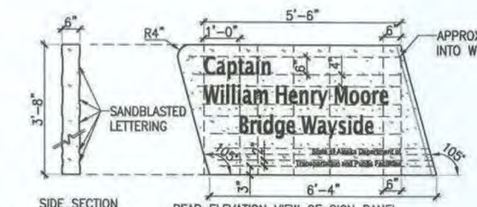
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SKAGWAY - REPLACE CAPTAIN WILLIAM HENRY MOORE BRIDGE

WAYSIDE DETAILS

FILE | C:\Civil 3D Projects\24\70732-01\Civil\SA14-CT-E-DT-CWHM.dwg | DATE | 8/17/2016 7:22 | LAYOUT | E13 | DESIGNED | HOBBS | CHECKED | NOBLE | DRAFTED | WESTPHAL

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0972016/Z684590000	2016	E14	59

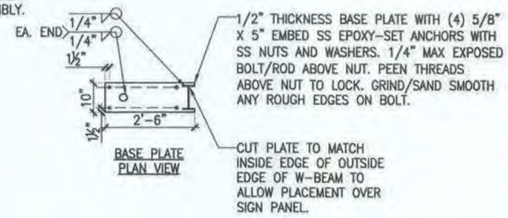


SIDE SECTION
(ILLUSTRATIVE ONLY - NOT ACCURATE TO ACTUAL PLACEMENT OF NOTED COMPONENTS)

REAR ELEVATION VIEW OF SIGN PANEL

APPROXIMATE LINE OF OVERLAP INTO W-BEAM POST ASSEMBLY.

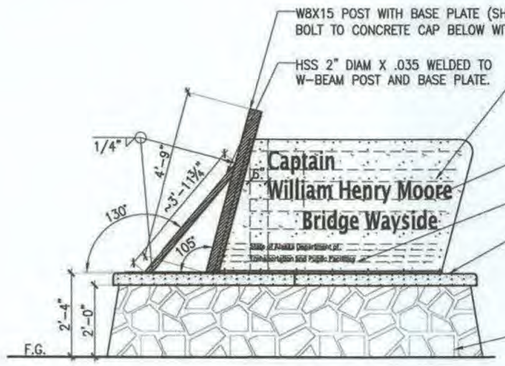
NOTE: HOT DIP GALVANIZE ENTIRE POST AND BASE PLATE ASSEMBLY AFTER FABRICATION.



1/2" THICKNESS BASE PLATE WITH (4) 5/8" X 5" EMBED SS EPOXY-SET ANCHORS WITH SS NUTS AND WASHERS. 1/4" MAX EXPOSED BOLT/ROD ABOVE NUT. PEEN THREADS ABOVE NUT TO LOCK. GRIND/SAND SMOOTH ANY ROUGH EDGES ON BOLT.

CUT PLATE TO MATCH INSIDE EDGE OF OUTSIDE EDGE OF W-BEAM TO ALLOW PLACEMENT OVER SIGN PANEL.

BASE PLATE PLAN VIEW



W8X15 POST WITH BASE PLATE (SHARED WITH HSS ELEMENT). BOLT TO CONCRETE CAP BELOW WITH (4) MASONRY BOLTS.

HSS 2" DIAM X .035 WELDED TO W-BEAM POST AND BASE PLATE.

6" THICKNESS PRE-CAST CONCRETE SIGN BLADE. BLADE SET ON PIPE SUPPORTS FORMED INTEGRAL INTO SIGN BASE. DESIGN TO LEAVE 1/4" GAP AT BOTTOM OF SIGN TO BE GROUTED TO EXCLUDE WATER INTRUSION.

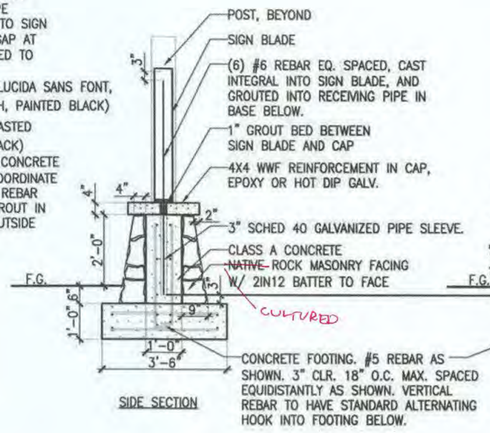
6" HEIGHT, 0.7 WIDTH FACTOR, LUCIDA SANS FONT, SANDBLASTED LETTERS (¼" DEPTH, PAINTED BLACK)

2" HEIGHT, ARIAL FONT, SANDBLASTED LETTERS (¼" DEPTH, PAINTED BLACK)

24" WIDTH 4" THICK PRE-CAST CONCRETE CAP IN (2) EQUAL SECTIONS. COORDINATE WITH SIGN BLADE ATTACHMENT REBAR AND VISIBLE POST ASSEMBLY. GROUT IN PLACE TO SIGN BASE. UPPER OUTSIDE EDGES TO BE 1" RADIUS.

~~NATIVE~~ ROCK MASONRY FACING
CULTURED

FRONT ELEVATION VIEW



(6) #6 REBAR EQ. SPACED, CAST INTEGRAL INTO SIGN BLADE, AND GROUTED INTO RECEIVING PIPE IN BASE BELOW.

1" GROUT BED BETWEEN SIGN BLADE AND CAP

4X4 WWF REINFORCEMENT IN CAP, EPOXY OR HOT DIP GALV.

3" SCHED 40 GALVANIZED PIPE SLEEVE.

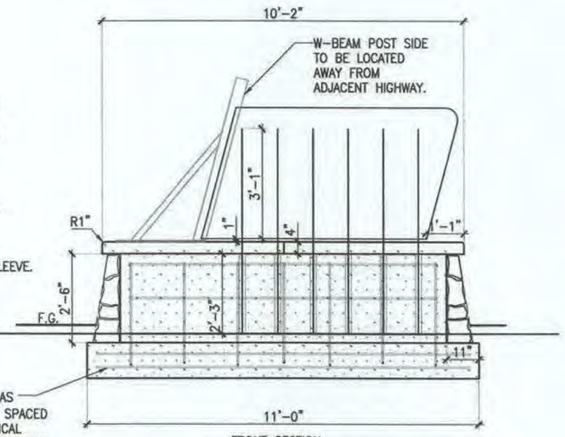
CLASS A CONCRETE

~~NATIVE~~ ROCK MASONRY FACING W/ 2IN12 BATTER TO FACE

CULTURED

CONCRETE FOOTING. #5 REBAR AS SHOWN. 3" CLR. 18" O.C. MAX. SPACED EQUIDISTANTLY AS SHOWN. VERTICAL REBAR TO HAVE STANDARD ALTERNATING HOOK INTO FOOTING BELOW.

SIDE SECTION



FRONT SECTION

1 WAYSIDE SIGN

SCALE: NTS (USE DIMENSIONS)

6/9/20

PLANS DEVELOPED BY:
CORVUS DESIGN
2506-B FAIRBANKS ST.
ANCHORAGE, AK 99503
(907) 222-2859
#AECC1195

119 SEWARD ST. UNIT 15
JUNEAU, AK 99801
(907) 988-9000

STATE OF ALASKA - 49TH - Christopher R. Merrill - Aug 10, 2016 - No. 10440 - REGISTERED PROFESSIONAL LANDSCAPE ARCHITECT

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SKAGWAY - REPLACE CAPTAIN WILLIAM HENRY MOORE BRIDGE

WAYSIDE SIGN DETAILS

FILE: J:\DOT-16-02 Moore Bridge Sign\2 - CAD\Corvus-Sheets.dwg | LAYOUT: E14 | DESIGNED: PB | CHECKED: PB | DRAFTED: PB | DATE: 8/11/2016 11:14

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0972016/Z684590000	2016	E15	59

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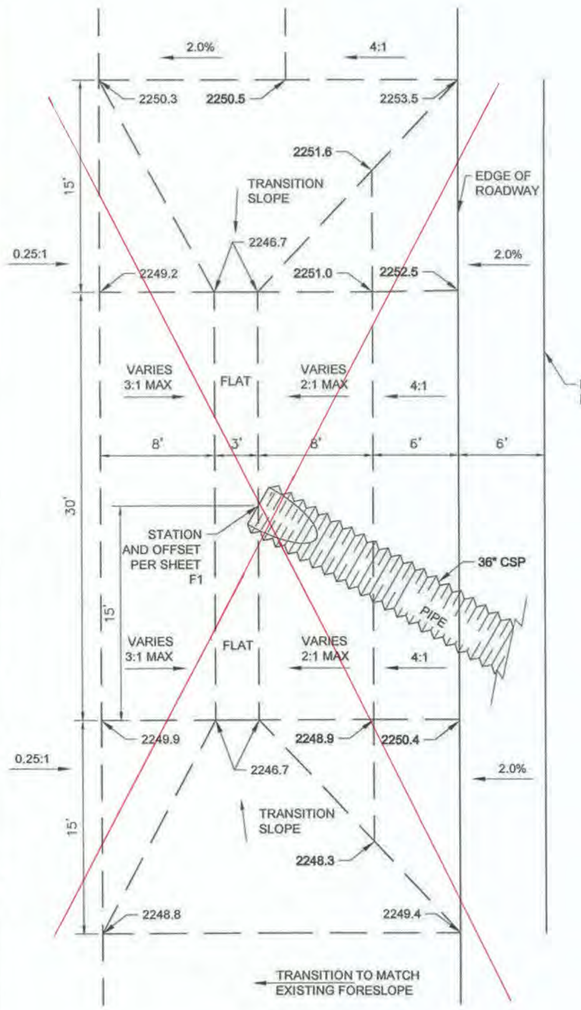
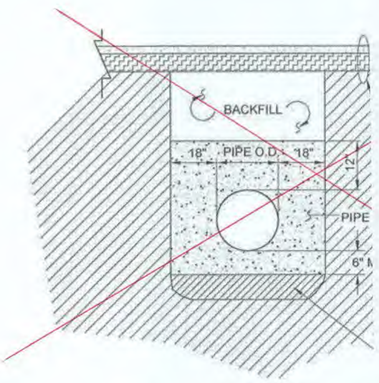


DITCH WIDENING NOTES:

1. STANDARD DITCH GRADE TRANSITIONS FROM TYPICAL DITCH SECTION TO 3 FT. FLAT BOTTOM DITCH.

1 ~~DITCH WIDENING DETAIL~~ NTS
DELETED By CO#7



2 ~~CULVERT BEDDING/BA~~
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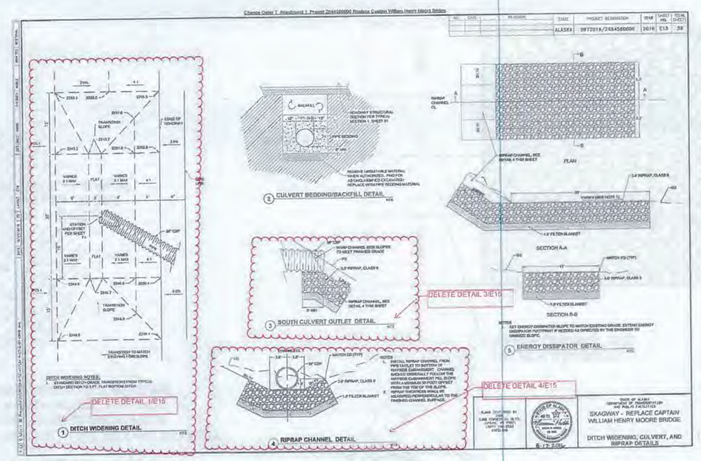

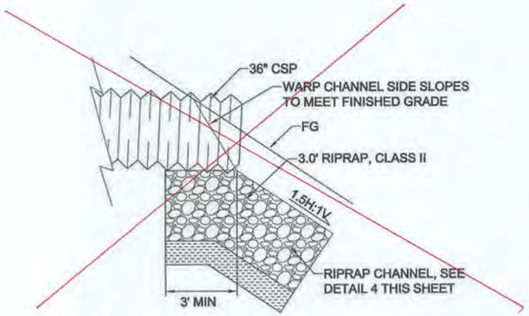

3 ~~SOUTH CULVERT OUTLET DETAIL~~ NTS
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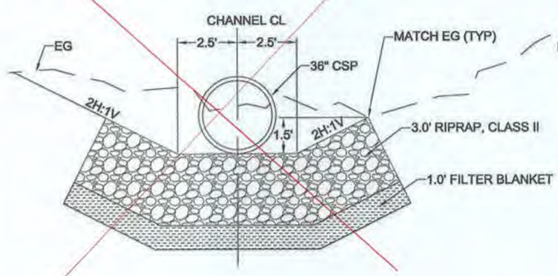
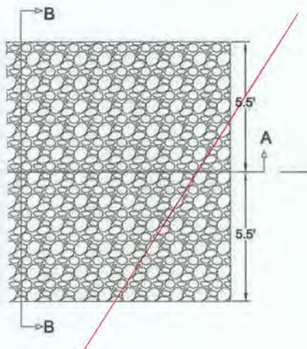


NOTES

1. INSTALL RIPRAP CHANNEL FROM PIPE OUTLET TO BOTTOM OF WAYSIDE EMBANKMENT. CHANNEL SHOULD GENERALLY FOLLOW THE WAYSIDE EMBANKMENT FILL SLOPE WITH A MINIMUM 30 FOOT OFFSET FROM THE TOE OF THE SLOPE.
2. RIPRAP THICKNESS SHALL BE MEASURED PERPENDICULAR TO THE FINISHED CHANNEL SURFACE.

4 ~~RIPRAP CHANNEL DETAIL~~ NTS
DELETED By C.O. #7



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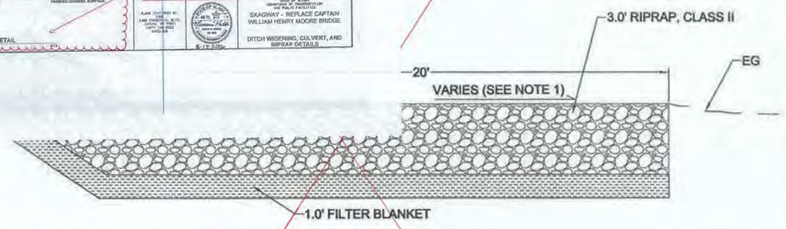
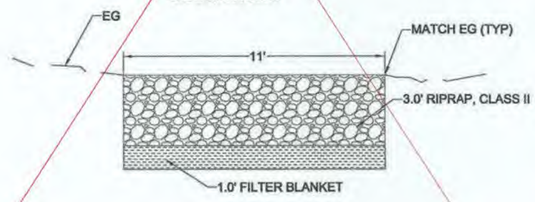


SECTION A-A



SECTION B-B

NOTES

1. SET ENERGY DISSIPATER SLOPE TO MATCH EXISTING GRADE. EXTEND ENERGY DISSIPATOR FOOTPRINT IF NEEDED AS DIRECTED BY THE ENGINEER TO MINIMIZE SLOPE.

5 ~~ENERGY DISSIPATOR DETAIL~~ NTS
DELETED By C.O.#7

6/9/20

PLANS DEVELOPED BY:
DOWL
5368 COMMERCIAL BLVD.
JUNEAU, AK 99801
(907) 780-3533
#AECL848

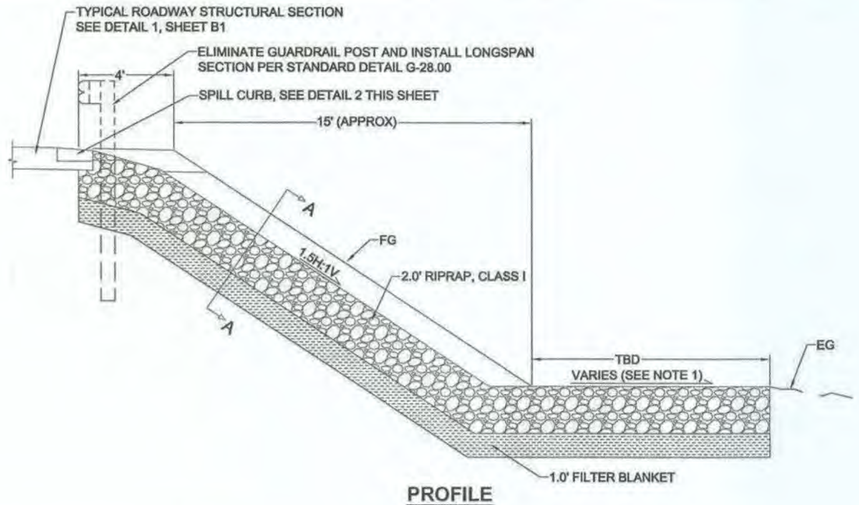
STATE OF ALASKA
49 TH
NAOMI R. HOBBS
CE 9959
REGISTERED PROFESSIONAL ENGINEER
8.17.2016

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

SKAGWAY - REPLACE CAPTAIN WILLIAM HENRY MOORE BRIDGE

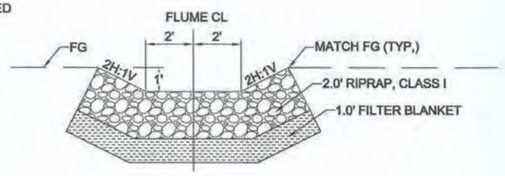
DITCH WIDENING, CULVERT, AND RIPRAP DETAILS

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0972016/Z684590000	2016	E16	59



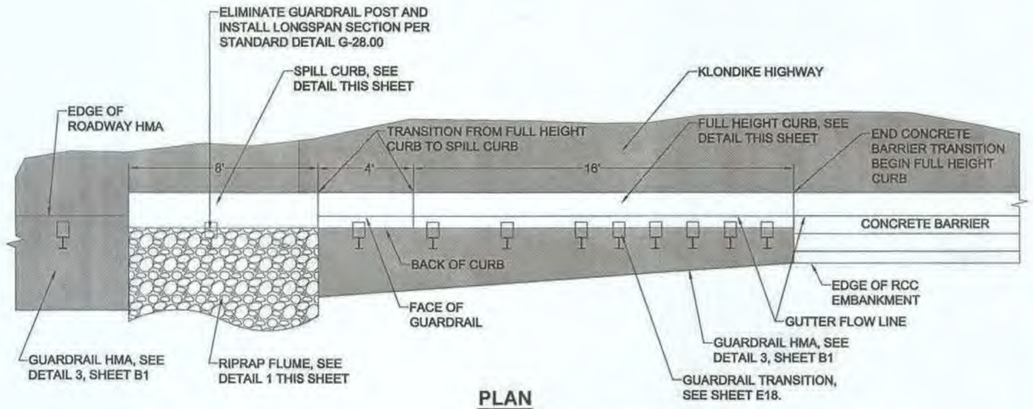
PROFILE

NOTES
1. SET RIPRAP FLUME ENERGY DISSIPATER SLOPE TO MATCH EXISTING GRADE. EXTEND ENERGY DISSIPATOR FOOTPRINT IF NEEDED AS DIRECTED BY THE ENGINEER TO MNIMIZE SLOPE.
2. ADJUST RIPRAP FLUME ENERGY DISSIPATOR ALIGNMENT AND BERM OUTSIDE OF BEND TO MINIMIZE THE POTENTIAL FOR EROSION AS DIRECTED BY THE ENGINEER.
3. RIPRAP THICKNESS SHALL BE MEASURED PERPENDICULAR TO THE FINISHED FLUME SURFACE.

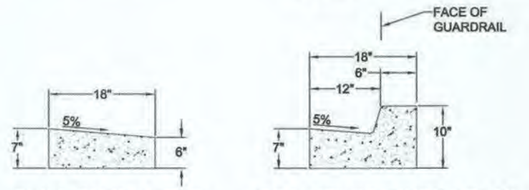


SECTION A - A

1 RIPRAP FLUME DETAIL NTS



PLAN



SPILL CURB DETAIL

FULL HEIGHT CURB DETAIL

2 CURB TRANSITION TO RIPRAP FLUME DETAIL NTS

6/9/20

PLANS DEVELOPED BY:
DOWL
5368 COMMERCIAL BLVD.
JUNEAU, AK 99801
(907) 780-3533
#AECL848

STATE OF ALASKA
49TH
NAOMI R. HOBBS
CE 9959
REGISTERED PROFESSIONAL ENGINEER
8-17-2016

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SKAGWAY - REPLACE CAPTAIN WILLIAM HENRY MOORE BRIDGE

RIPRAP FLUME DETAILS

DATE | 8/17/2016 7:30 | LAYOUT | E16 | DESIGNED | HOBBS | CHECKED | NOBLE | DRAFTED | WESTPHAL

FILE | C:\Civil 3D Projects\24\70732-01\Civil\SA14-CT-E-DT-CMHM.dwg

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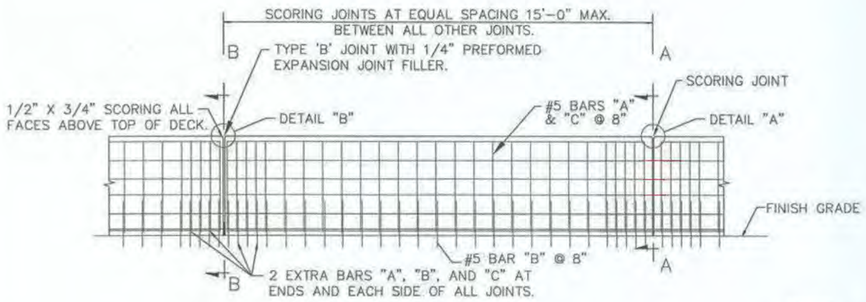
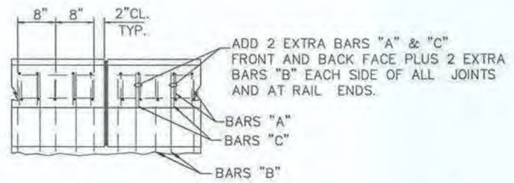


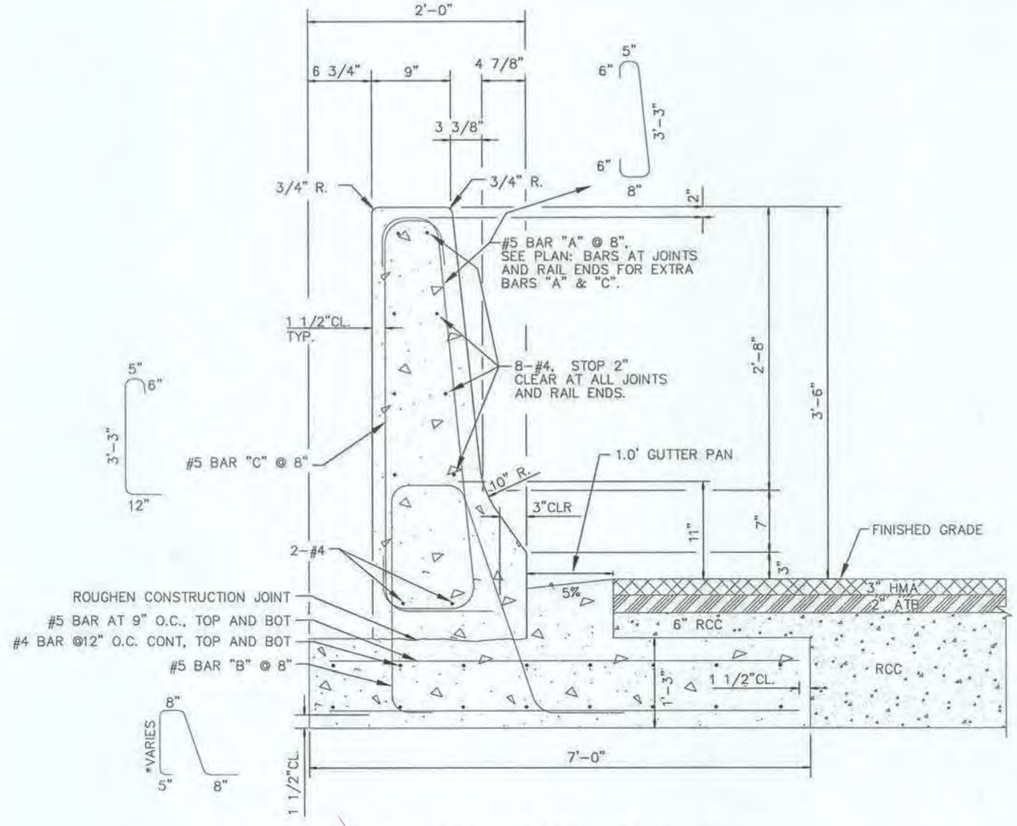
1 ELEVATION: CONCRETE BARRIER
NTS

NOTES:
*TOP OF PARAPET SHALL BE 3'-6" ABOVE FINISHED GRADE.

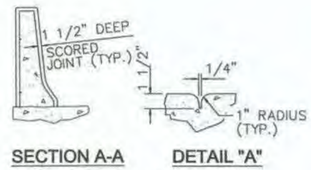
SEE SHEET E18 FOR BARRIER ON END PANEL.



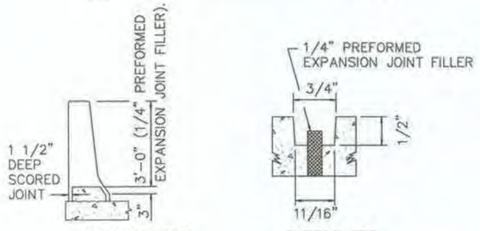
2 PLAN: BARS AT JOINTS AND BARRIER ENDS
NTS



6 CONCRETE BARRIER SECTION
NTS



3 SCORING JOINT DETAIL
NTS



4 TYPE 'B' JOINT DETAIL
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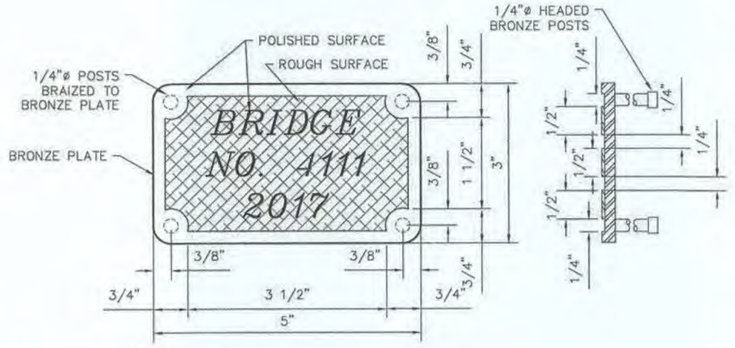

5 BRIDGE NUMBER PLATE
NTS

GENERAL NOTES:

1. BARRIER DESIGNED AND CRASH TESTED TO MEET NCHRP 350 TL-5 REQUIREMENTS.
2. PROVIDE REINFORCING STEEL CONFORMING TO ASTM A706 OR AASHTO M31 (ASTM A615) GRADE 60.
3. SPLICE #4 BARS 1'-4" MIN., SPLICE #5 BARS 1'-8" MIN.
4. PROVIDE CLASS A CONCRETE.
5. PROVIDE STEEL COVER PLATES CONFORMING AASHTO M183, (ASTM A36). HOT-DIP GALVANIZE AFTER FABRICATION.

6/9/22

PLANS DEVELOPED BY:
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STATE OF ALASKA
49TH
NAOMI R. HOBBS
CE 9959
REGISTERED PROFESSIONAL ENGINEER
8-17-2016

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

SKAGWAY - REPLACE CAPTAIN WILLIAM HENRY MOORE BRIDGE

CONCRETE BARRIER DETAILS AND BRIDGE NUMBER PLATE

DATE | 8/17/2016 7:30 | LAYOUT | E17 | DESIGNED | HOBBS | CHECKED | NOBLE | DRAFTED | WESTPHAL

FILE | C:\Civil 3D Projects\24\70732-01\Civil\SA14-CT-E-DT-CWM.dwg

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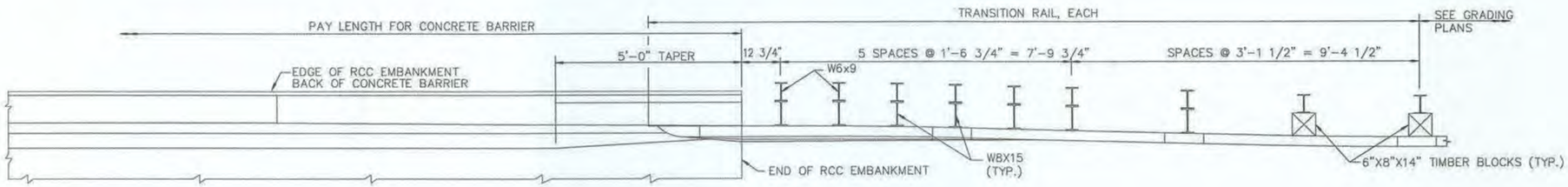
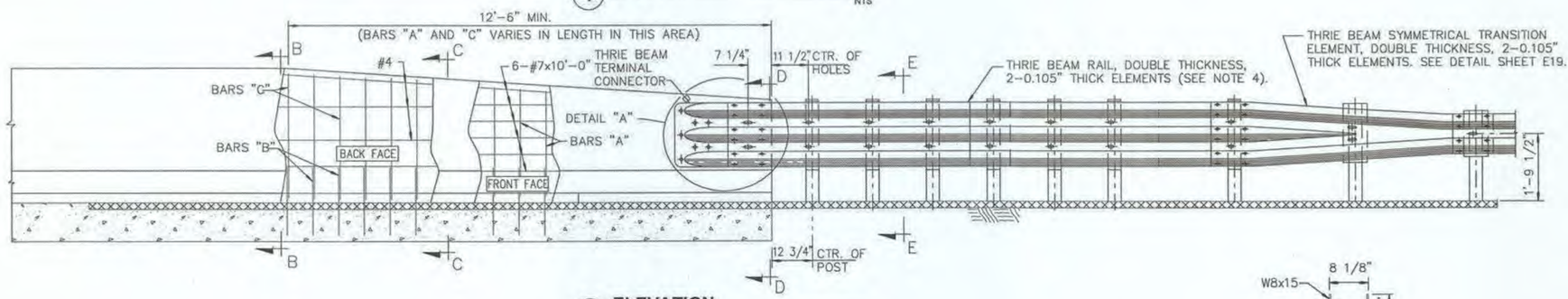


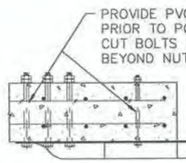
1 PLAN

NTS

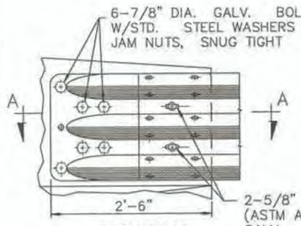


2 ELEVATION

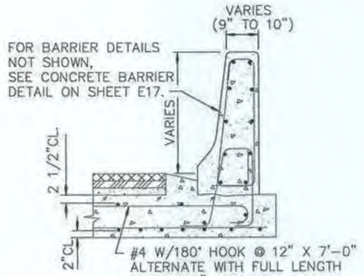
NTS



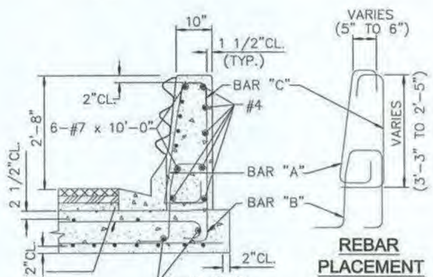
SECTION A-A



DETAIL "A"

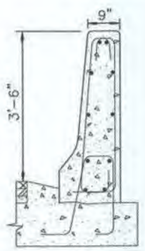


SECTION C-C

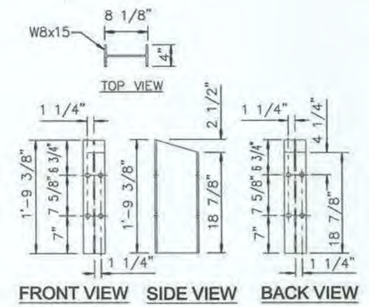


SECTION D-D

REBAR PLACEMENT SKETCH

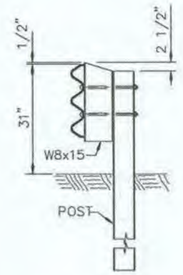


SECTION B-B



3 THREE BEAM BLOCKS

NTS



SECTION E-E

GENERAL NOTES:

1. PROVIDE STEEL FOR WIDE-FLANGE POSTS CONFORMING TO AASTHO M183 (ASTM A36). HOT DIP GALVANIZE AFTER FABRICATION.
2. ALL GUARDRAIL AND GUARDRAIL CONNECTION HARDWARE TO CONFORM TO AASHTO M-180. ALL H.S. BOLTS TO CONFORM TO ASTM A325. ALL OTHER STEEL TO CONFORM TO ASTM A709 GRADE 36.
3. CONFORM TO STANDARD DRAWINGS FOR ALL GUARDRAIL DETAILS NOT SHOWN.
4. LAP APPROACH GUARDRAIL TO PREVENT SNAGS FROM ON COMING TRAFFIC.
5. PROVIDE GUTTER PAN ALONG CONCRETE BARRIER AS SHOWN ON SHEET E17.

JD 6/9/20

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STATE OF ALASKA 49TH
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8-17-2016

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

SKAGWAY - REPLACE CAPTAIN WILLIAM HENRY MOORE BRIDGE

CONCRETE BARRIER TRANSITION DETAILS

FILE | C:\Civil 3D Projects\24\70732-01\Civil\SA14-CT-E-DT-CWRM.dwg | DATE | 8/17/2016 7:32 | LAYOUT | E18 | DESIGNED | HOBBS | CHECKED | NOBLE | DRAFTED | WESTPHAL

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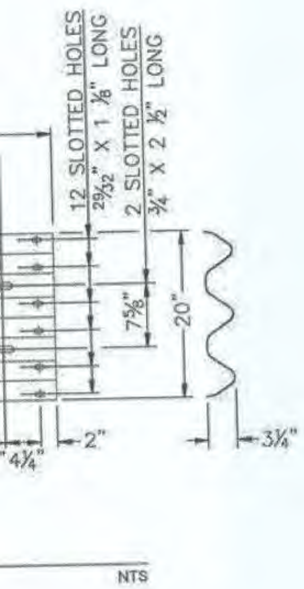
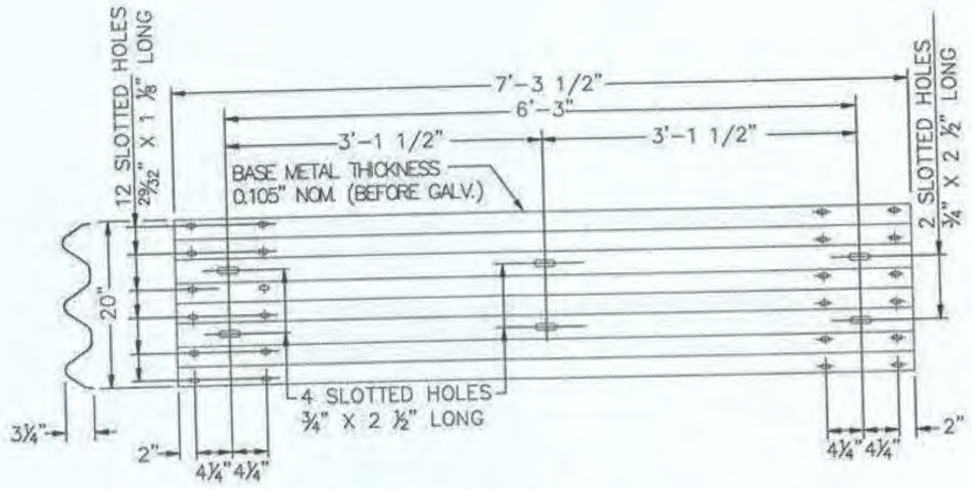
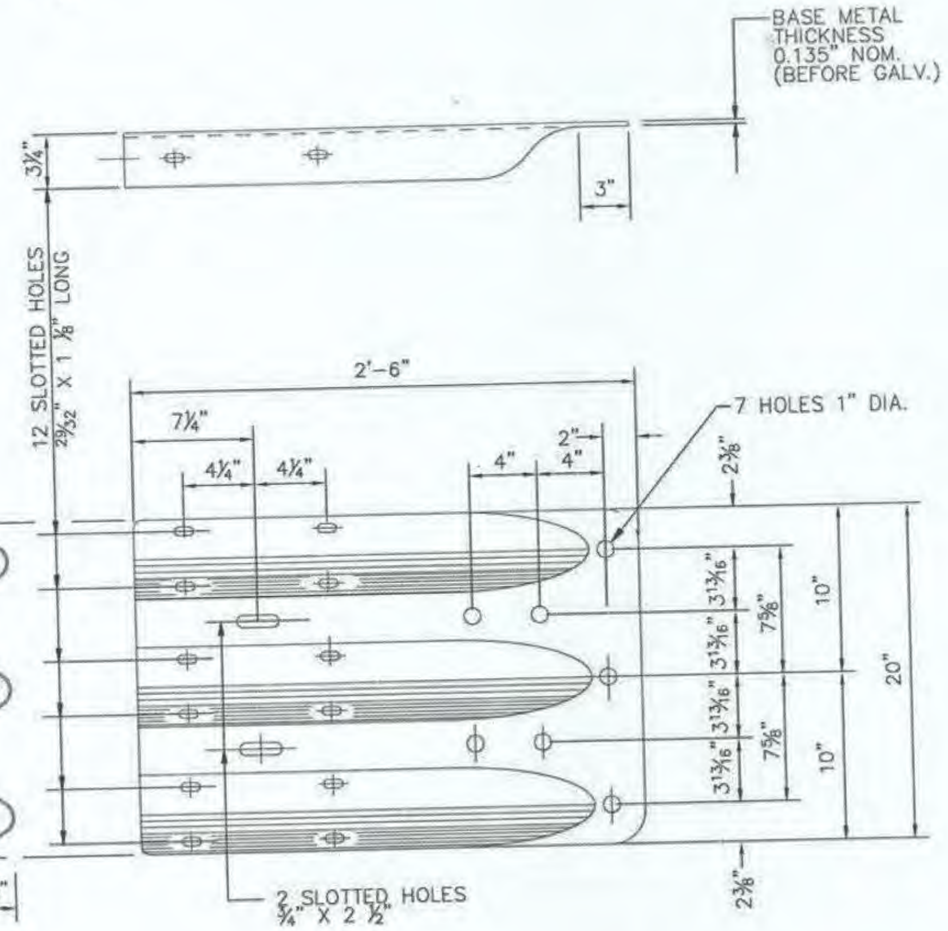


NTS



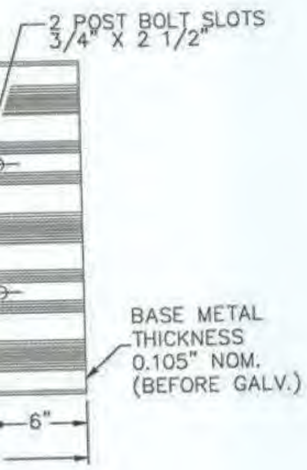
5 ELEVATION - RAIL ELEMENT

NTS



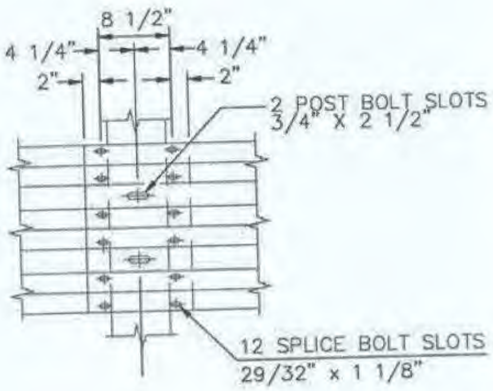
6 TERMINAL CONNECTOR

NTS



BEAM BACK-UP PLATE

NTS



4 BEAM SPLICE

NTS

6/9/20

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8·17·2016

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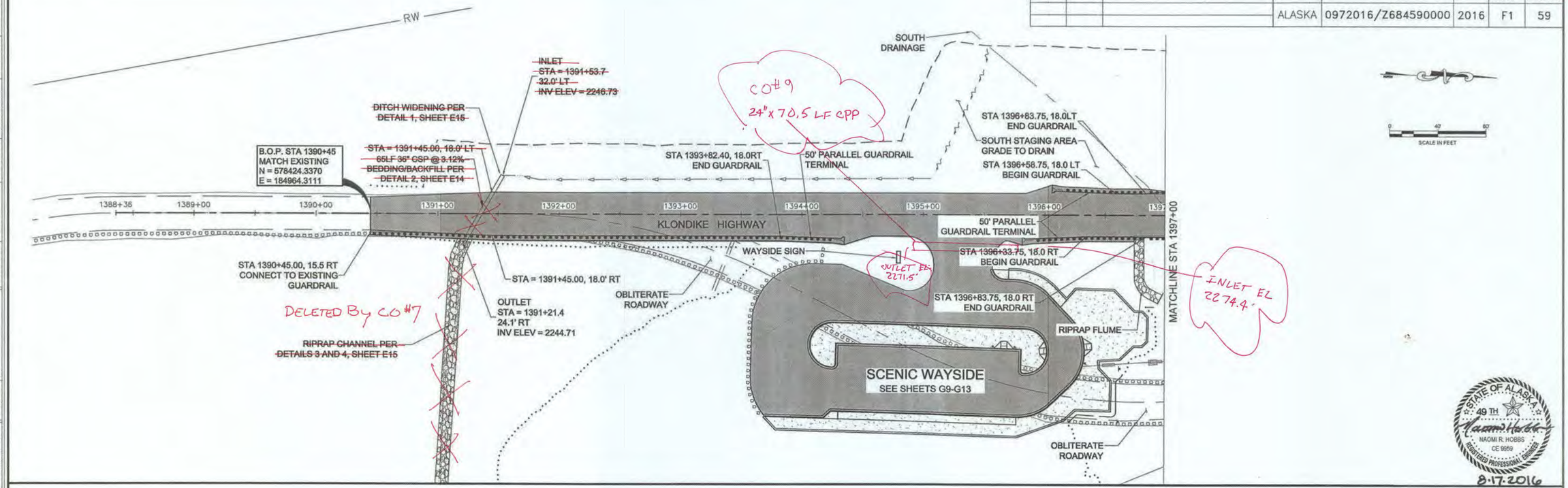
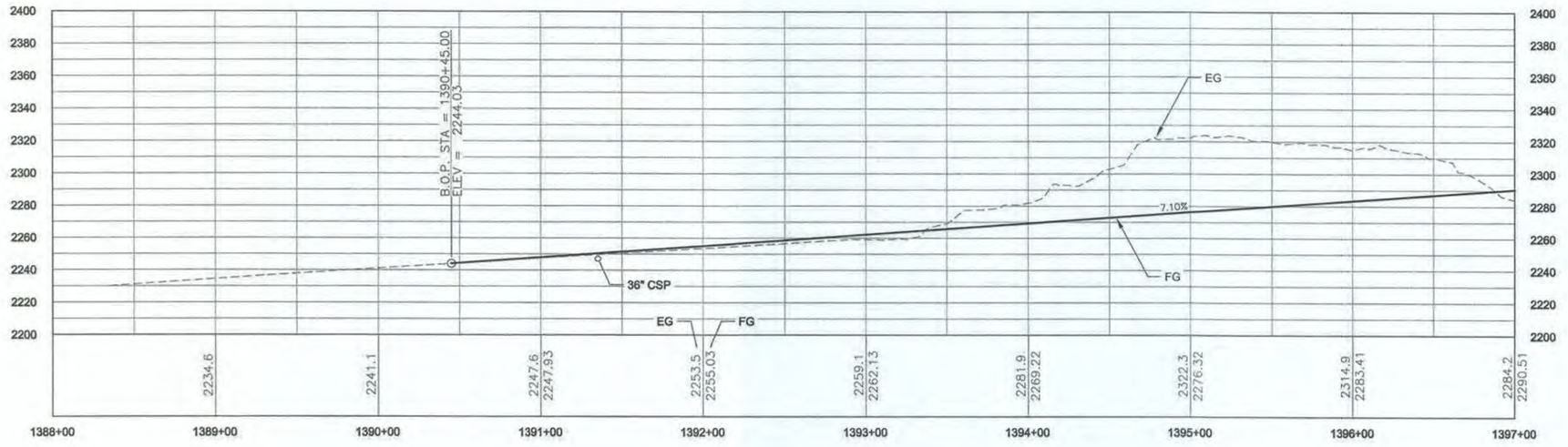
SKAGWAY - REPLACE CAPTAIN WILLIAM HENRY MOORE BRIDGE

THRIE BEAM TRANSITION RAIL DETAILS

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0972016/Z684590000	2016	F1	59





6/9/20

FIRM	DOWL
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ADDRESS	5368 COMMERCIAL BLVD, JUNEAU, AK 99801
DATE	8/17/2016 7:51

AECL84B	WESTPHAL
CERTIFICATE OF AUTH #:	DRAFTED
NOBLE	CHECKED
(907) 780-3533	HOBBS
PHONE	DESIGNED
LAYOUT	F1

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
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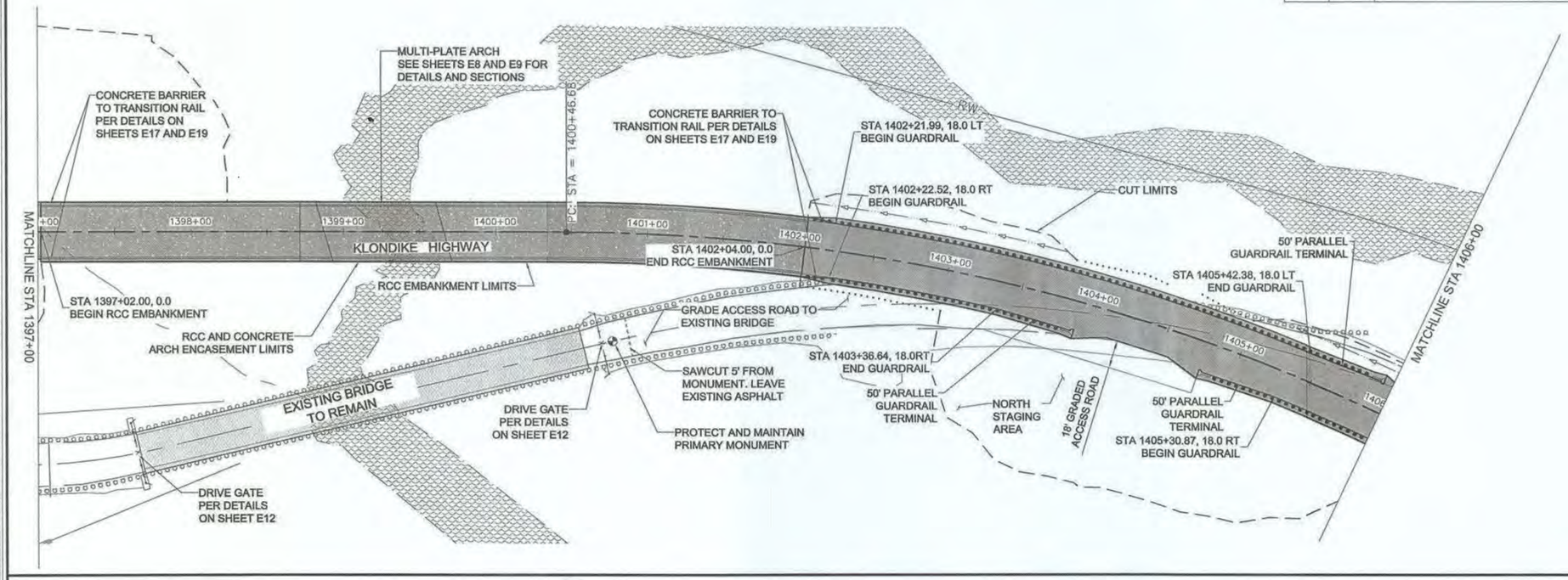

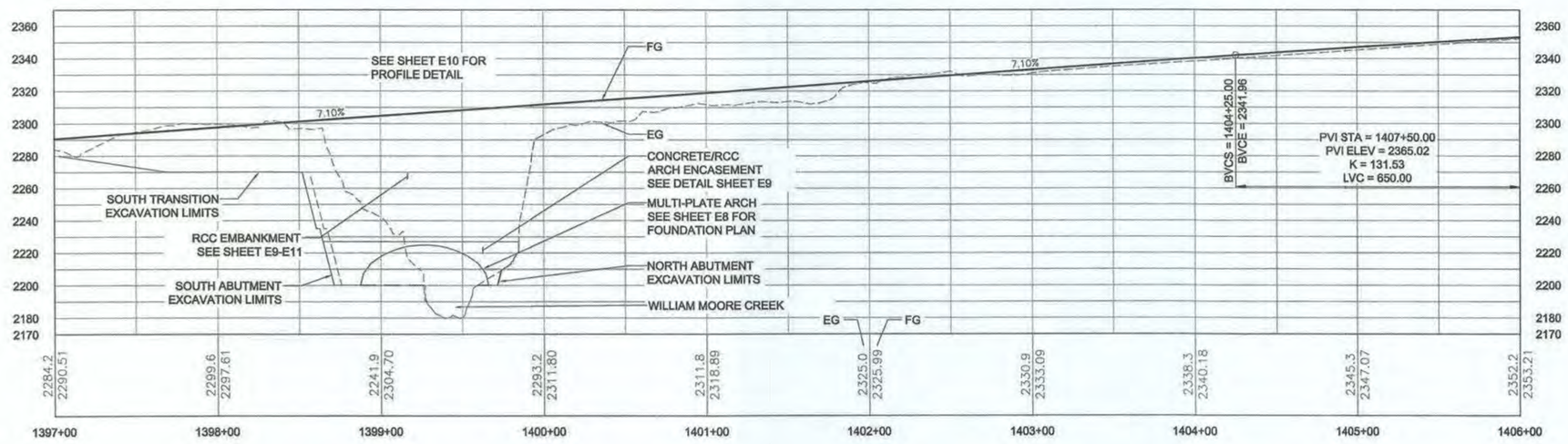

STATE OF ALASKA
49 TH
NAOMI R. HOBBS
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REGISTERED PROFESSIONAL ENGINEER
8·17·2016

6/7/20

FIRM	DOWL	ADDRESS	5368 COMMERCIAL BLVD, JUNEAU, AK 99801	PHONE	(907) 780-3533	CERTIFICATE OF AUTH #	AECL848
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						CHECKED	NOBLE
						DRAFTED	WESTPHAL

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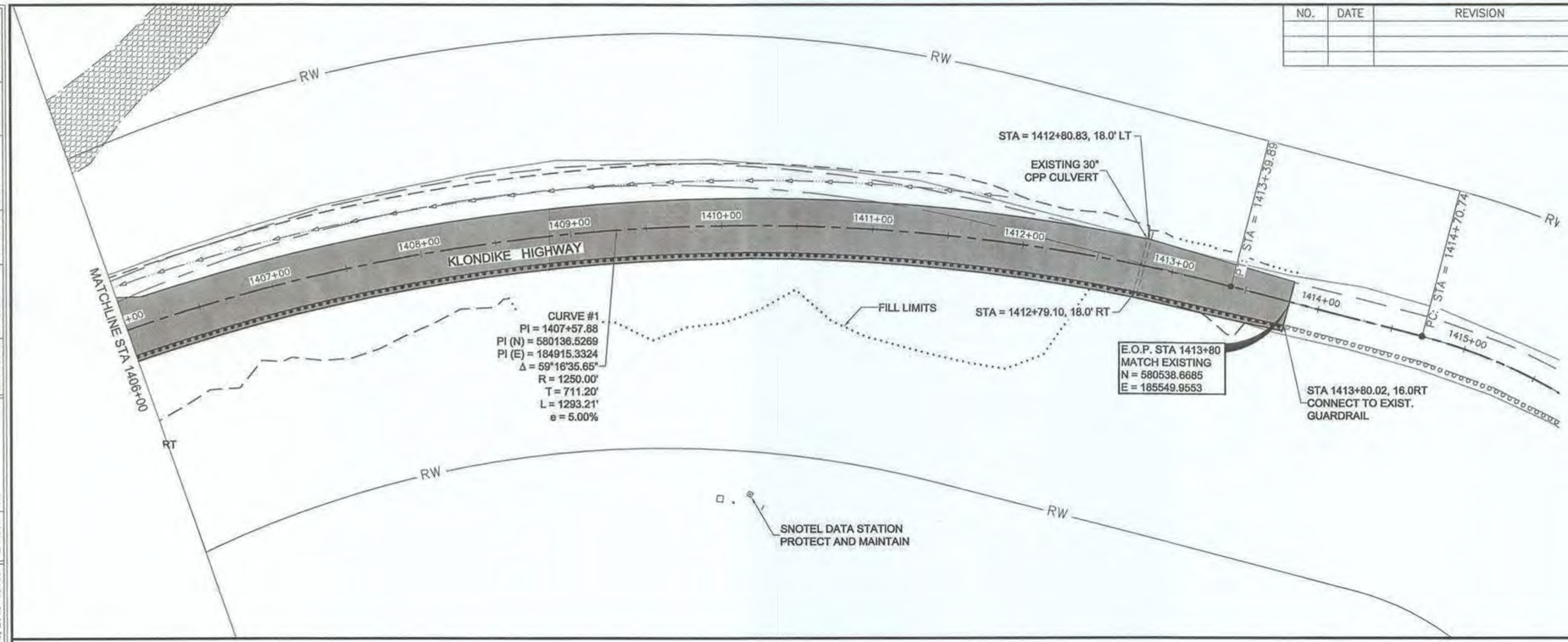

STATE OF ALASKA
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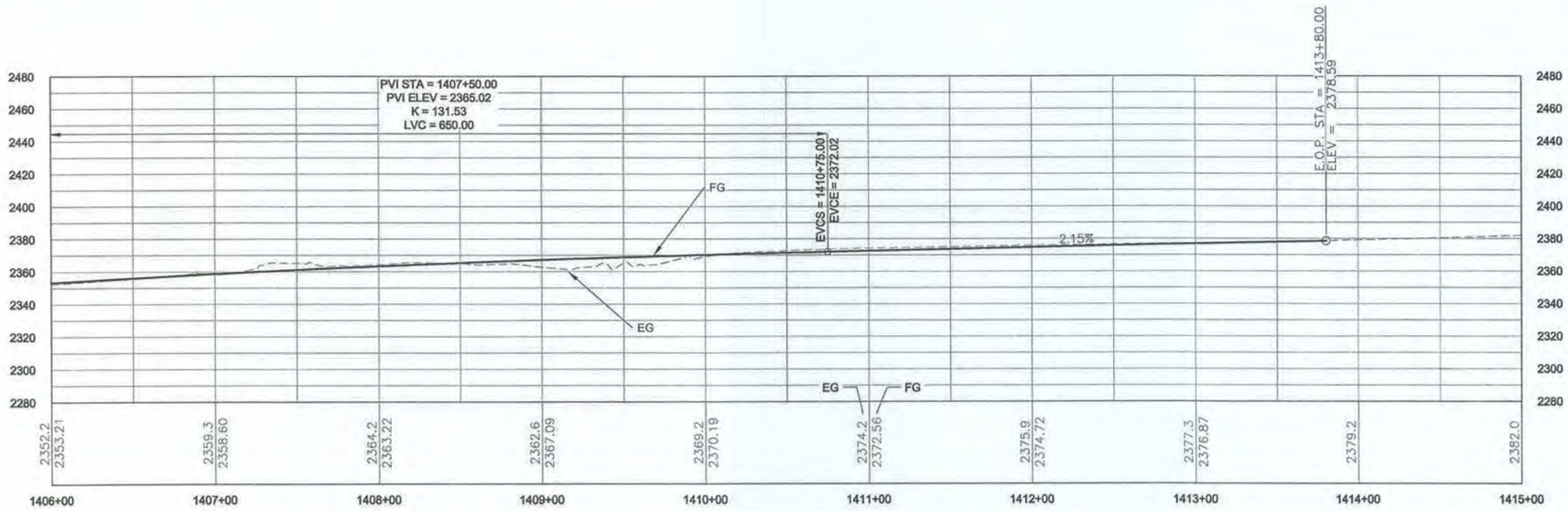
8-17-2016



6/9/20

FIRM DOWL | ADDRESS 5368 COMMERCIAL BLVD, JUNEAU, AK 99801 | PHONE (907) 780-3533 | CERTIFICATE OF AUTH #: AECL848
DATE 8/16/2016 15:03 | LAYOUT F3 | DESIGNED HOBBS | CHECKED NOBLE | DRAFTED WESTPHAL
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NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
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RW

SOUTH DRAINAGE

0.25H:1V

±120'

100.00

SOUTH STAGING AREA

1.5H:1V

KLONDIKE HIGHWAY

1391+00 1392+00 1393+00 1394+00 1395+00 1396+00 1397+00

DELETED By CO#7

WAYSIDE PARKING AREA
PER SHEETS G9–G13

A G2 B G2 C G2

1 SOUTH APPROACH CUT PLAN

SCALE AS NOTED

20 0 20 40
SCALE IN FEET

6/9/26

PLANS DEVELOPED BY:
DOWL
5368 COMMERCIAL BLVD,
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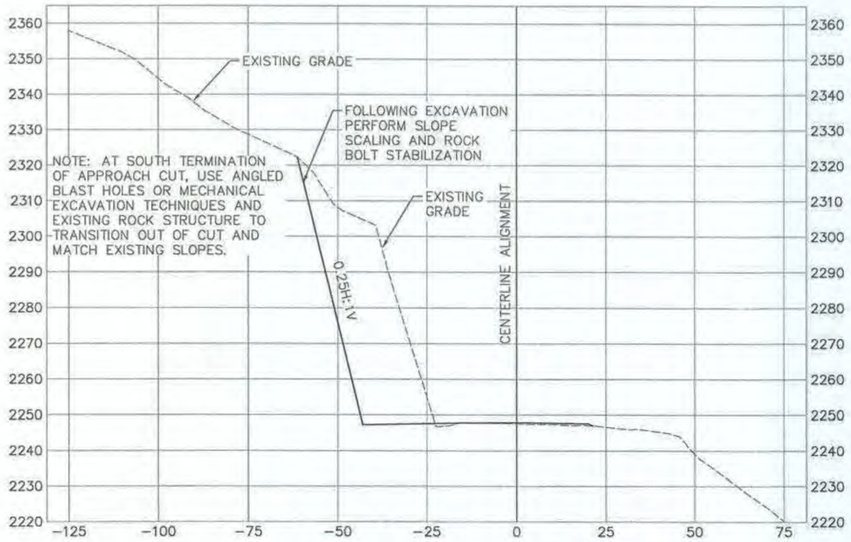
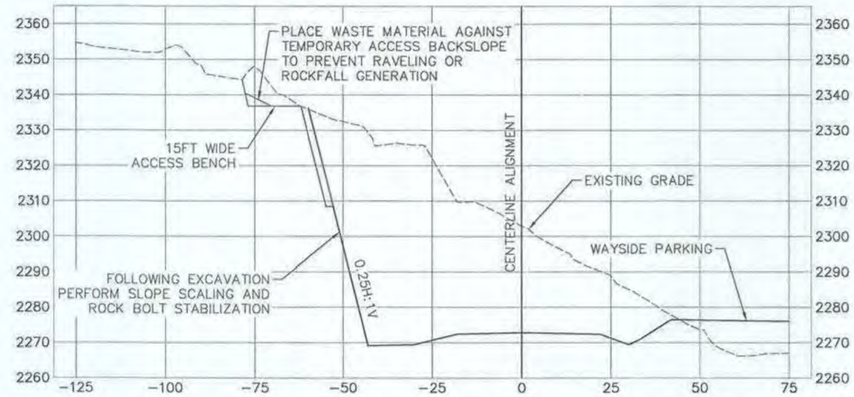
SKAGWAY - REPLACE CAPTAIN
WILLIAM HENRY MOORE BRIDGE

SOUTH APPROACH PLAN

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0972016/Z684590000	2016	G2	59

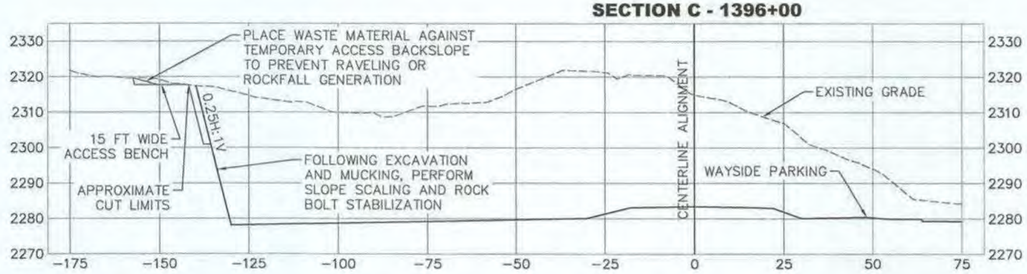


A TYPICAL SOUTH APPROACH CUT TERMINATION SECTION
STATIONS 1390+85 TO 1391+05 SCALE AS NOTED



B TYPICAL SOUTH APPROACH CUT SECTION
STATIONS 1391+05 TO 1394+90 SCALE AS NOTED

SECTION C - 1396+00



C TYPICAL SOUTH APPROACH WIDENED CUT SECTION
STATIONS 1394+90 TO 1397+70 SCALE AS NOTED

PLANS DEVELOPED BY:
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5368 COMMERCIAL BLVD.
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8-17-2016

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SKAGWAY - REPLACE CAPTAIN WILLIAM HENRY MOORE BRIDGE

SOUTH APPROACH TYPICAL CROSS SECTIONS

FILE C:\Civil 3D Projects\24\70732-01\Civil\SC14-CT-G-PR-CWNM.dwg | DATE 8/17/2016 11:05 | LAYOUT G2 | DESIGNED HOBBS | CHECKED NOBLE | DRAFTED WESTPHAL

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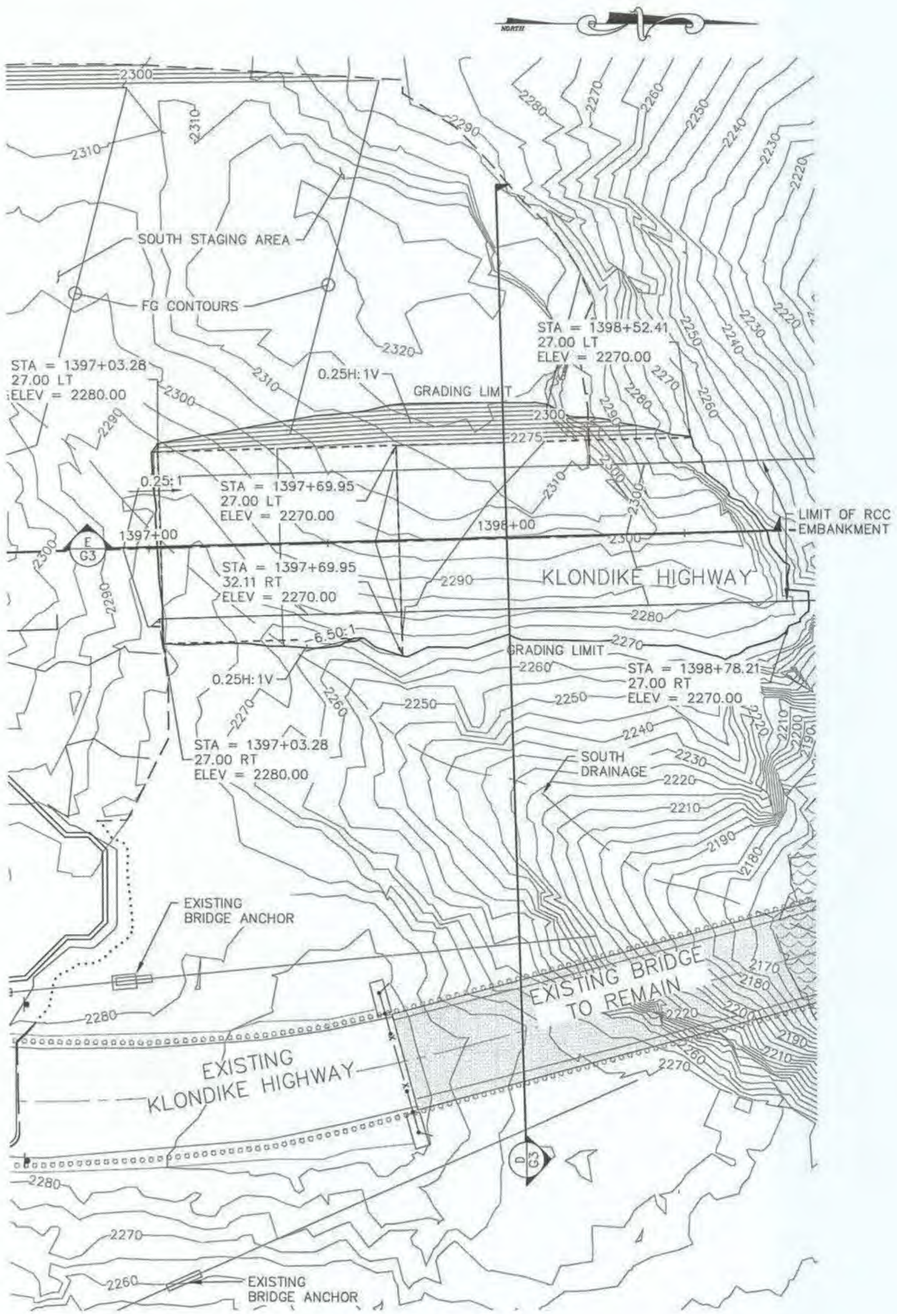
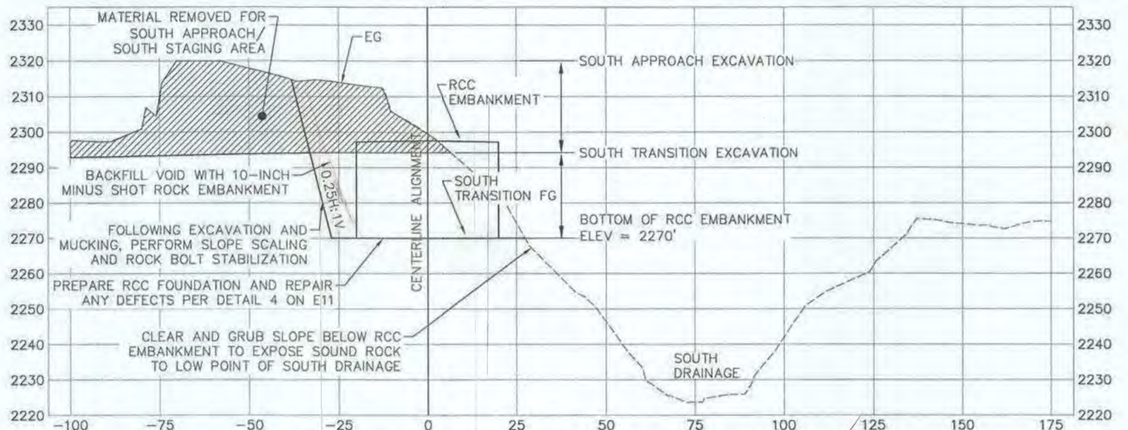
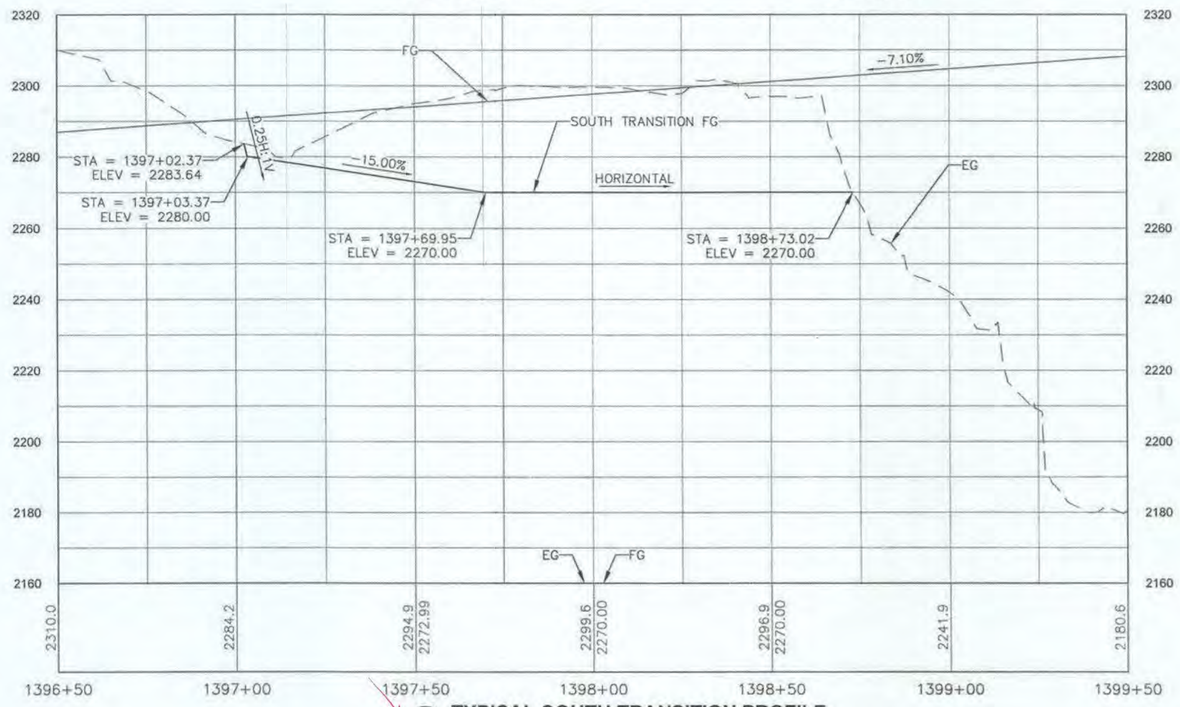


1 SOUTH TRANSITION PLAN
SCALE AS NOTED



D TYPICAL SOUTH TRANSITION CUT SECTION
STATION 1398+00 SCALE AS NOTED



E TYPICAL SOUTH TRANSITION PROFILE
STATIONS 1397+03 TO 1398+73 SCALE AS NOTED

6/9/20

PLANS DEVELOPED BY:
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5368 COMMERCIAL BLVD,
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STATE OF ALASKA
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DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

SKAGWAY - REPLACE CAPTAIN WILLIAM HENRY MOORE BRIDGE

SOUTH TRANSITION PLAN, PROFILE, AND CROSS SECTION

FILE C:\Civil 3D Projects\24\70732-01\Civil\SC14-CT-G-PK-CWHM.dwg | DATE 8/17/2016 11:05 | LAYOUT G3 | DESIGNED HOBBS | CHECKED NOBLE | DRAFTED WESTPHAL

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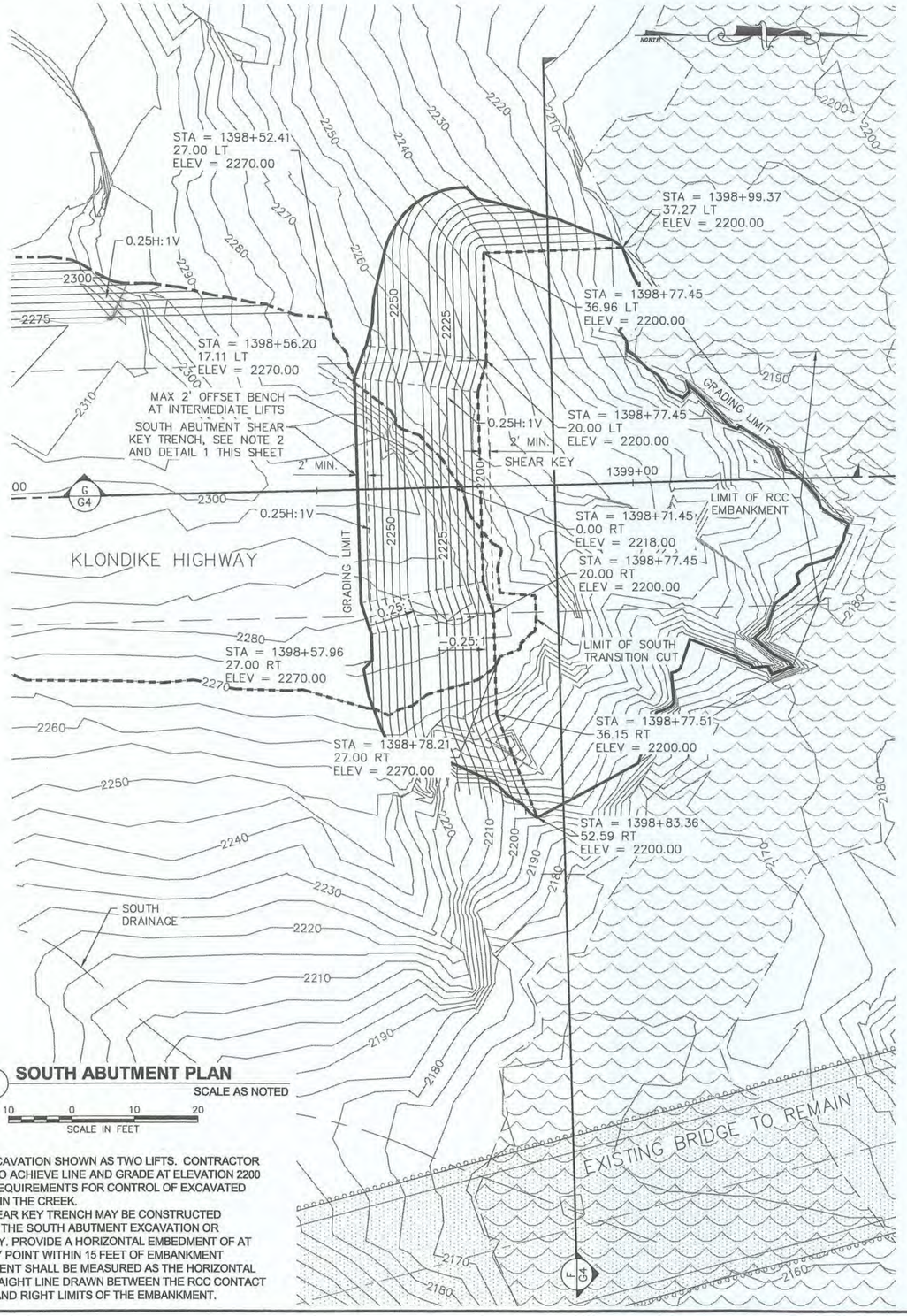


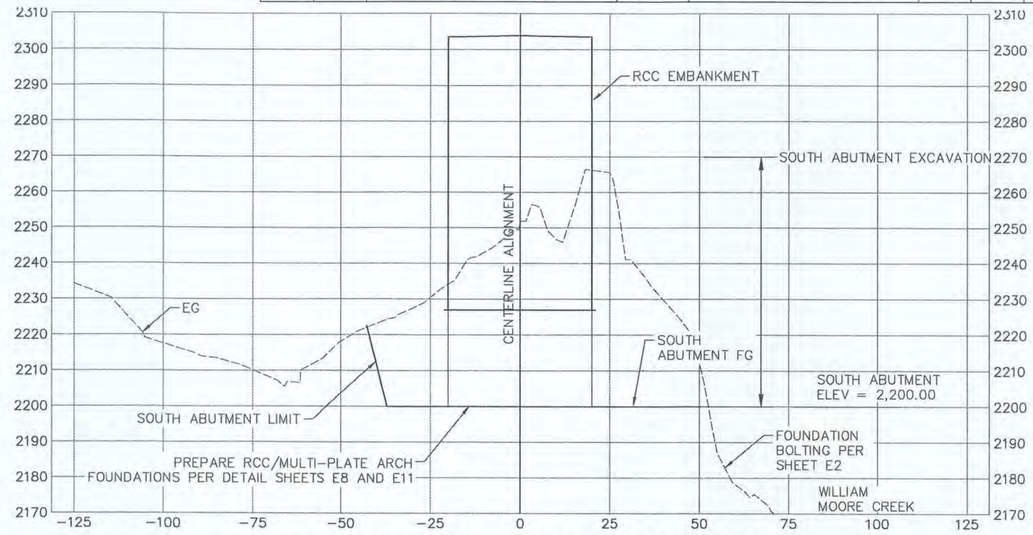
1 SOUTH ABUTMENT PLAN

SCALE AS NOTED

10 0 10 20
SCALE IN FEET

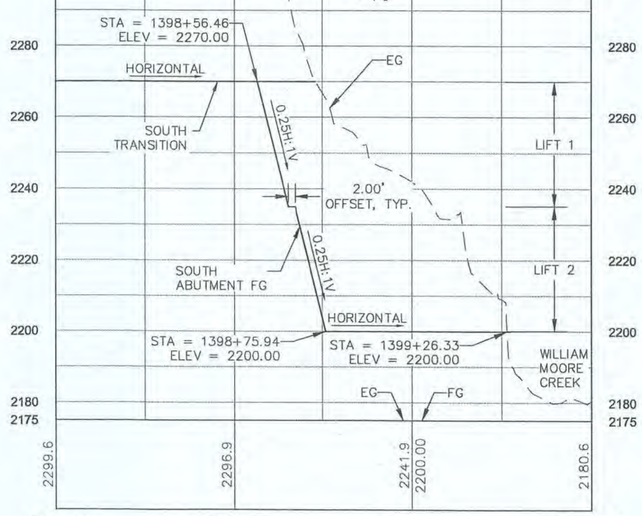
NOTES:

1. SOUTH ABUTMENT EXCAVATION SHOWN AS TWO LIFTS. CONTRACTOR TO CONSTRUCT CUT TO ACHIEVE LINE AND GRADE AT ELEVATION 2200 WHILE MEETING ALL REQUIREMENTS FOR CONTROL OF EXCAVATED MATERIAL DEPOSITED IN THE CREEK.
2. SOUTH ABUTMENT SHEAR KEY TRENCH MAY BE CONSTRUCTED CONCURRENTLY WITH THE SOUTH ABUTMENT EXCAVATION OR REMOVED SEPARATELY. PROVIDE A HORIZONTAL EMBEDMENT OF AT LEAST 2 FEET FOR ANY POINT WITHIN 15 FEET OF EMBANKMENT CENTERLINE. EMBEDMENT SHALL BE MEASURED AS THE HORIZONTAL DISTANCE PAST A STRAIGHT LINE DRAWN BETWEEN THE RCC CONTACT POINTS ON THE LEFT AND RIGHT LIMITS OF THE EMBANKMENT.



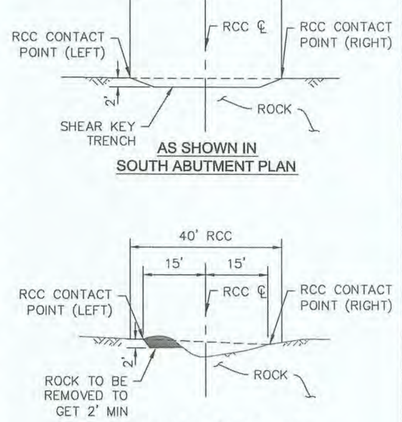
F TYPICAL SOUTH ABUTMENT CUT SECTION

STATIONS 1398+80 TO 1399+00 SCALE AS NOTED



G SOUTH ABUTMENT PROFILE

SCALE AS NOTED



1 SHEAR KEY TRENCH DETAIL

SCALE AS NOTED

6/9/20

PLANS DEVELOPED BY:
DOWL
5368 COMMERCIAL BLVD,
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STATE OF ALASKA
49TH
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11-19-16

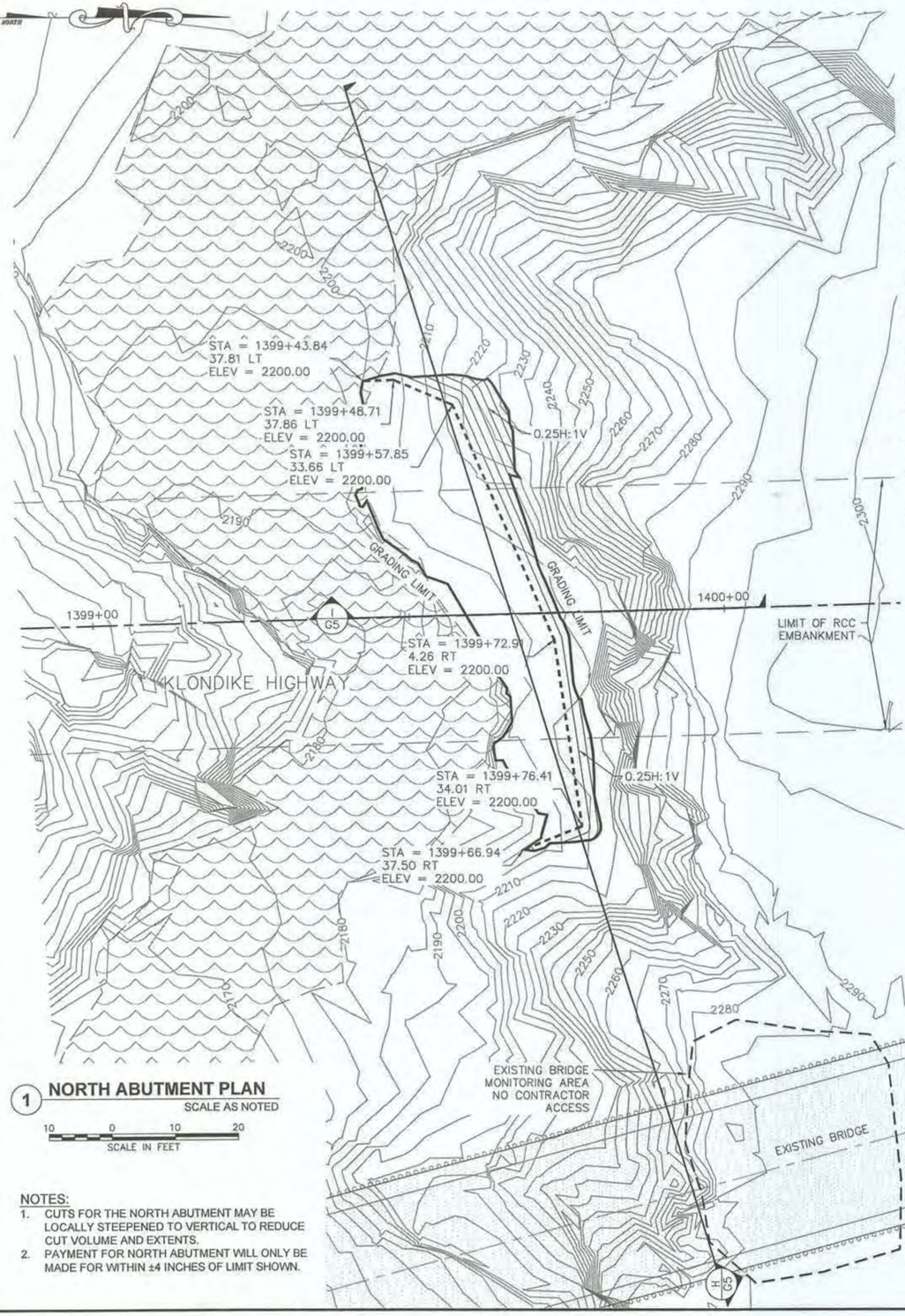
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

SKAGWAY - REPLACE CAPTAIN WILLIAM HENRY MOORE BRIDGE

SOUTH ABUTMENT PLAN, PROFILE, AND CROSS SECTION

FILE C:\civil 3D Projects\24\70732-01\Civil\SC14-CT-G-PK-CMW.dwg | DATE 11/19/2016 14:52 | LAYOUT G4 | DESIGNED HOBBS | CHECKED NOBLE | DRAFTED WESTPHAL

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0972016/Z684590000	2016	G5	59

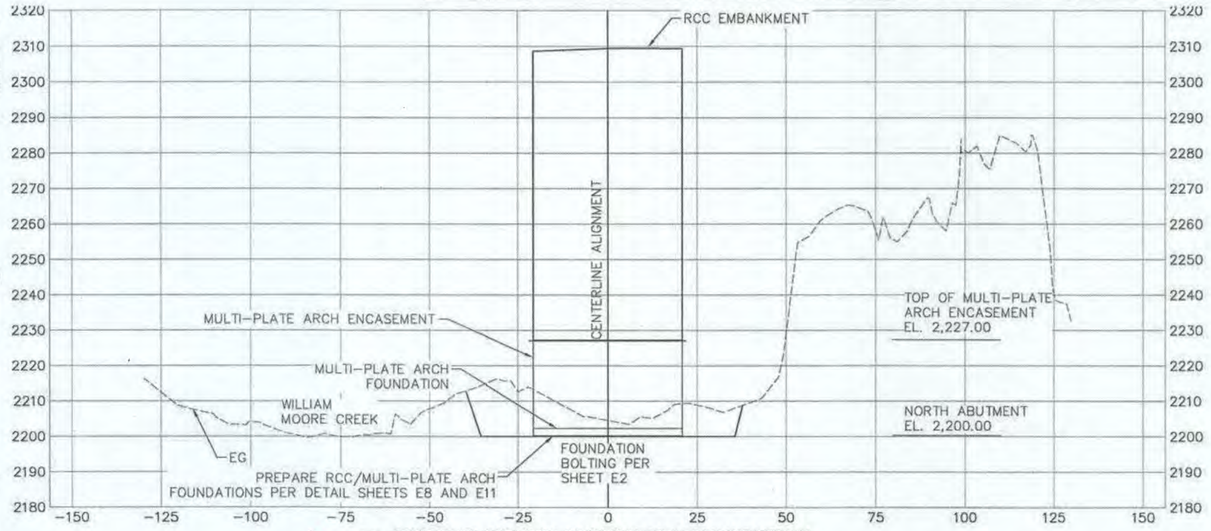


1 NORTH ABUTMENT PLAN

SCALE AS NOTED

10 0 10 20
SCALE IN FEET

NOTES:
1. CUTS FOR THE NORTH ABUTMENT MAY BE LOCALLY STEEPENED TO VERTICAL TO REDUCE CUT VOLUME AND EXTENTS.
2. PAYMENT FOR NORTH ABUTMENT WILL ONLY BE MADE FOR WITHIN ±4 INCHES OF LIMIT SHOWN.



H TYPICAL NORTH ABUTMENT CUT SECTION

STATIONS 1399+95 TO 1402+85 SCALE AS NOTED

I NORTH ABUTMENT PROFILE

SCALE AS NOTED

6/9/20

PLANS DEVELOPED BY:
DOWL
5368 COMMERCIAL BLVD,
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(907) 780-3533
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STATE OF ALASKA
49TH
NAOMI R. HOBBS
CE 9959
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8-17-2016

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SKAGWAY - REPLACE CAPTAIN WILLIAM HENRY MOORE BRIDGE

NORTH ABUTMENT PLAN, PROFILE, AND CROSS SECTION

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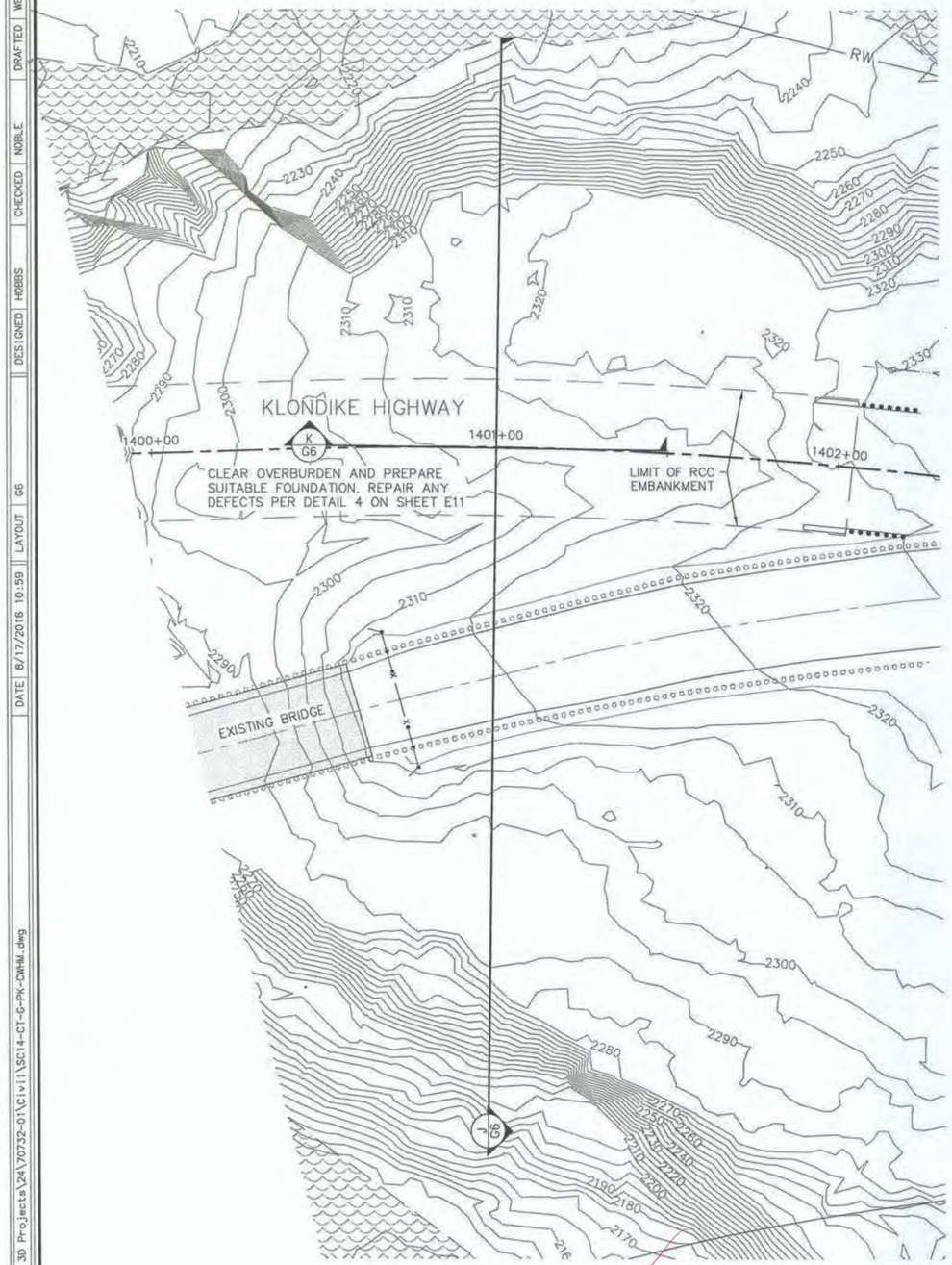
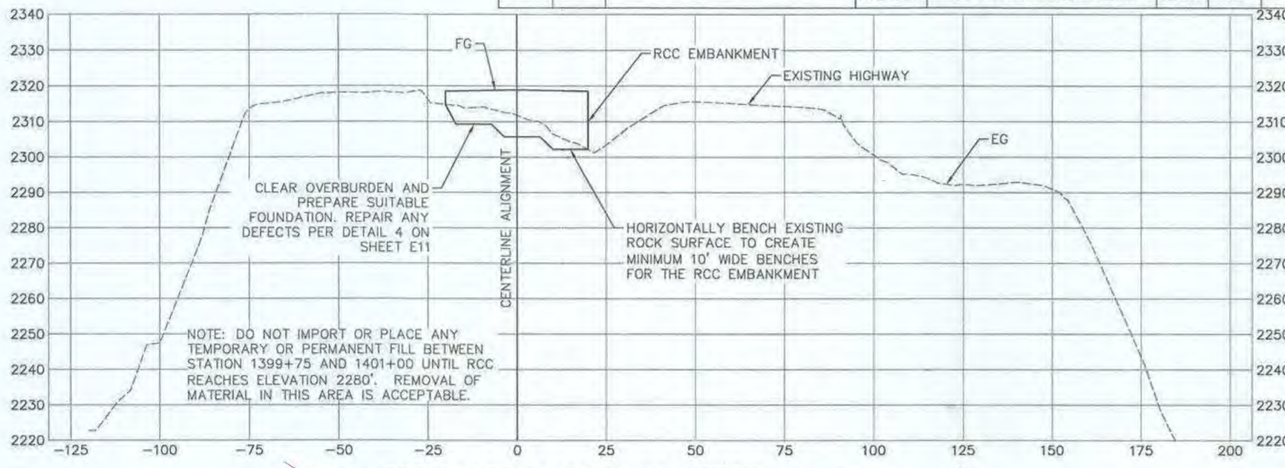


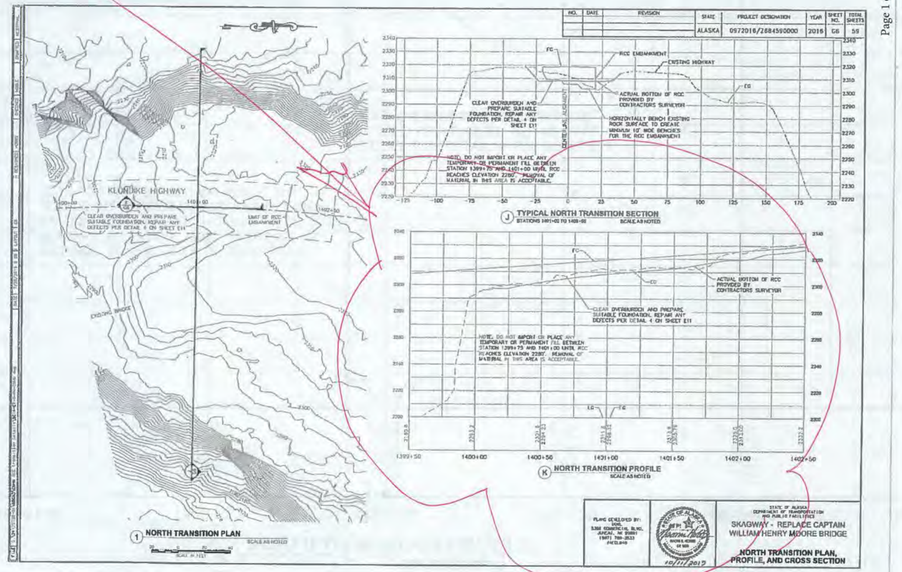
1 **NORTH TRANSITION PLAN**
SCALE AS NOTED
20 0 20 40
SCALE IN FEET



J **TYPICAL NORTH TRANSITION SECTION**
STATIONS 1401+00 TO 1408+50 SCALE AS NOTED

SEE ATTACHED

CO#12



Page 1 of 1

Page 1 of 1

Skagway Replace CWHM Bridge 0972016/Z684590000 Change Order 12 Attachment "1"

6/9/20

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8-17-2016

SKAGWAY - REPLACE CAPTAIN
WILLIAM HENRY MOORE BRIDGE

NORTH TRANSITION PLAN, PROFILE, AND CROSS SECTION

FILE C:\Civil 3D Projects\247\70732-01\Civil\SC14-CT-G-PK-CWHM.dwg | DATE 8/17/2016 10:59 | LAYOUT G6 | DESIGNED HOBBS | CHECKED NOBLE | DRAFTED WESTPHAL

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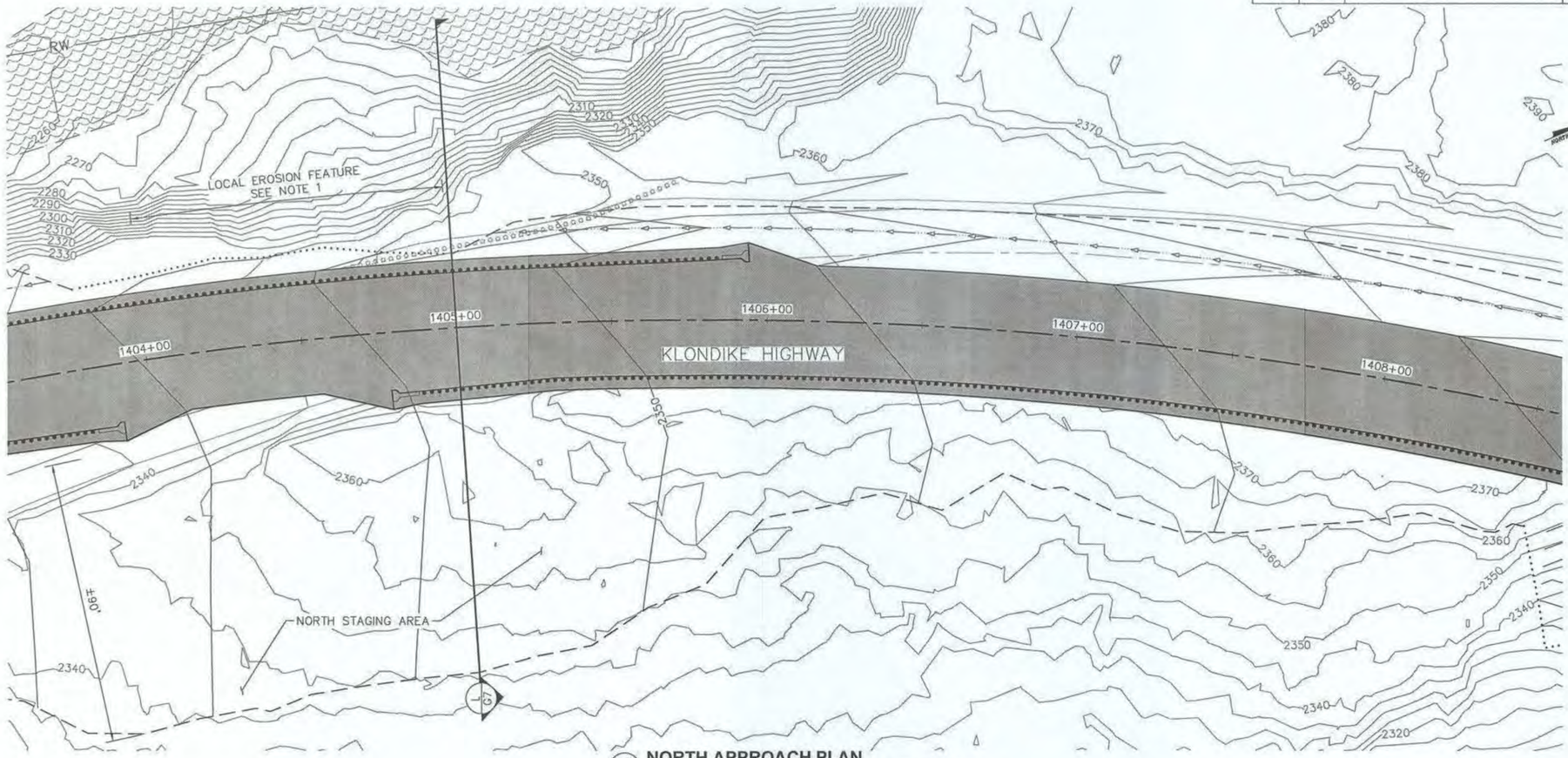
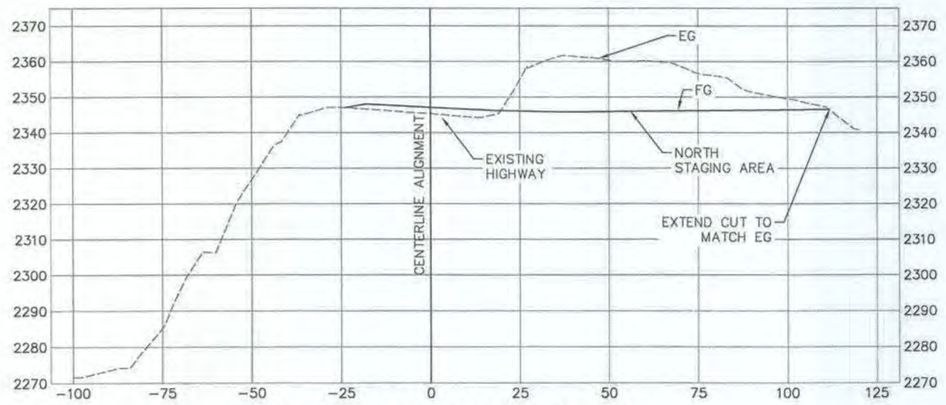
			ALASKA	0972016/Z684590000	2016	G7	59



1 NORTH APPROACH PLAN

SCALE AS NOTED

20 0 20 40
SCALE IN FEET



L TYPICAL NORTH APPROACH SECTION

STATIONS 1405+00 TO 1408+55 SCALE AS NOTED

NOTES:
1. EXISTING SHOULDER RAVELING OBSERVED IN THIS AREA. EXCAVATE TO FIRM ROCK AND KEY IN EMBANKMENT MATERIALS TO CONSTRUCT STABLE FILL.

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DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SKAGWAY - REPLACE CAPTAIN WILLIAM HENRY MOORE BRIDGE

NORTH APPROACH PLAN AND CROSS SECTION

6/9/20

FILE C:\Civil 3D Projects\24\70732-01\Civil\SC14-CT-G-PK-CMHM.dwg | DATE 8/17/2016 11:05 | LAYOUT G7 | DESIGNED HOBBS | CHECKED NOBLE | DRAFTED WESTPHAL

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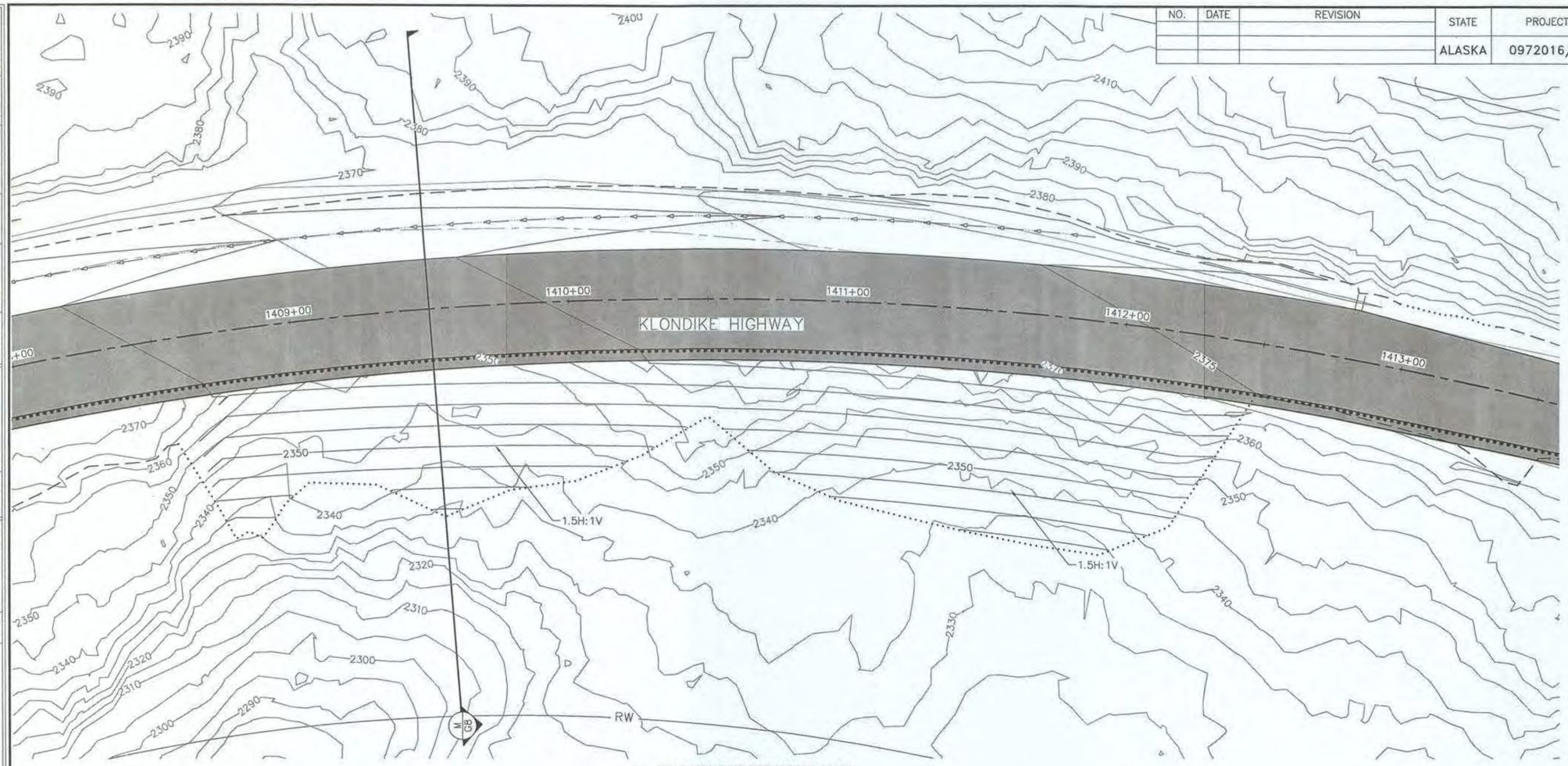
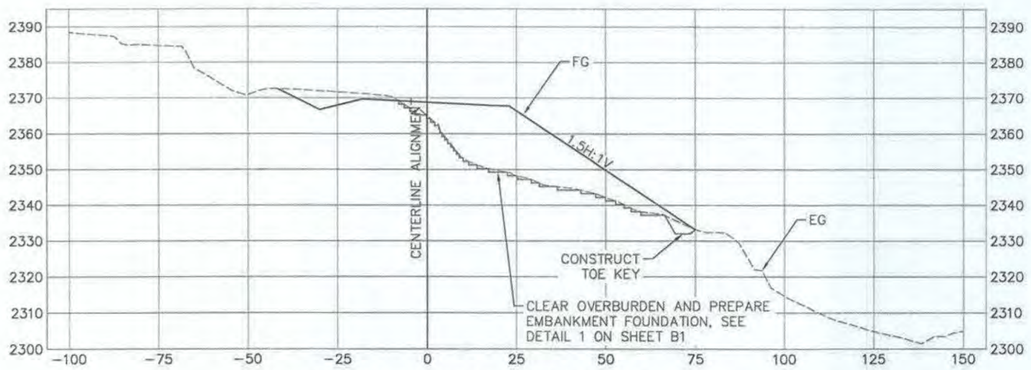


1 **NORTH APPROACH PLAN** SCALE AS NOTED

20 0 20 40
SCALE IN FEET



M **TYPICAL NORTH APPROACH SECTION**
STATIONS 1409+50 TO 1413+00 SCALE AS NOTED

6/9/19

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SKAGWAY - REPLACE CAPTAIN WILLIAM HENRY MOORE BRIDGE

NORTH APPROACH PLAN AND CROSS SECTION

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NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
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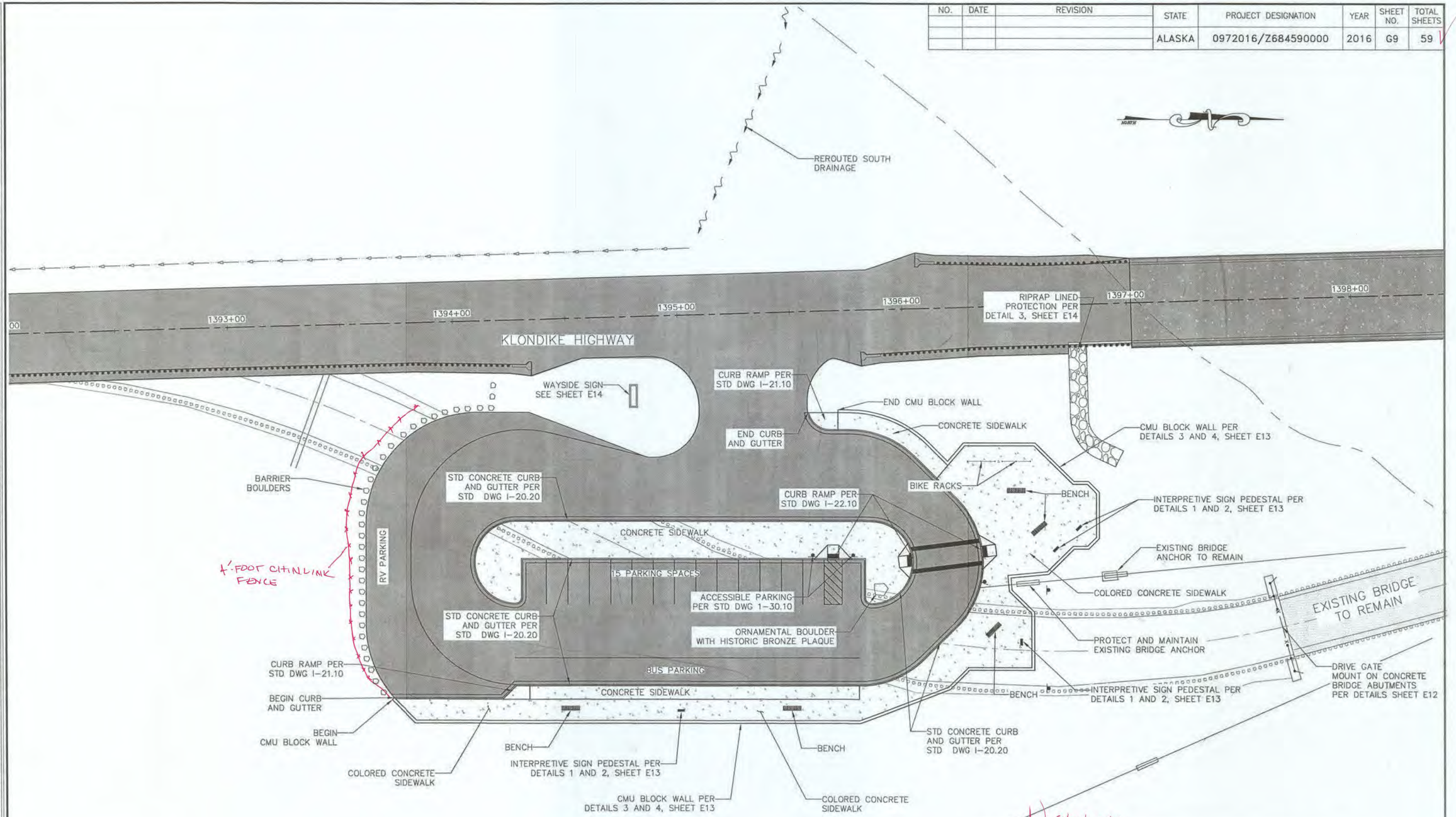
FILE C:\Civil 3D Projects\24\70732-01\Civil\SC14-CT-G-PK-GNHM.dwg | DATE 8/17/2016 10:54 | LAYOUT G9 | DESIGNED HOBBS | CHECKED NOBLE | DRAFTED WESTPHAL



1 WAYSIDE PLAN

SCALE AS NOTED

20 0 20 40

SCALE IN FEET

6/9/16

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STATE OF ALASKA
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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

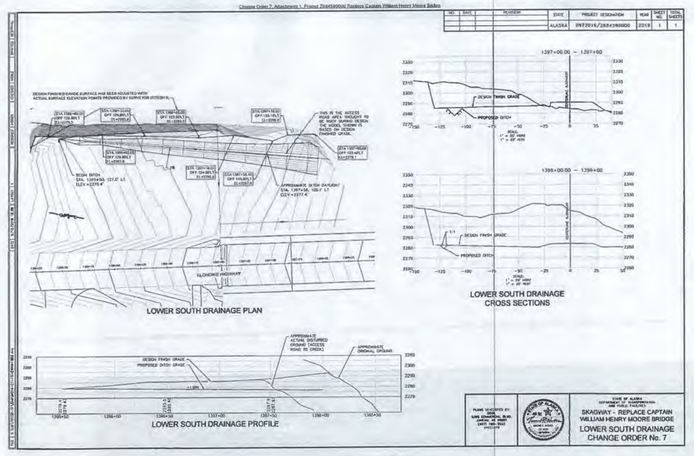
SKAGWAY - REPLACE CAPTAIN WILLIAM HENRY MOORE BRIDGE

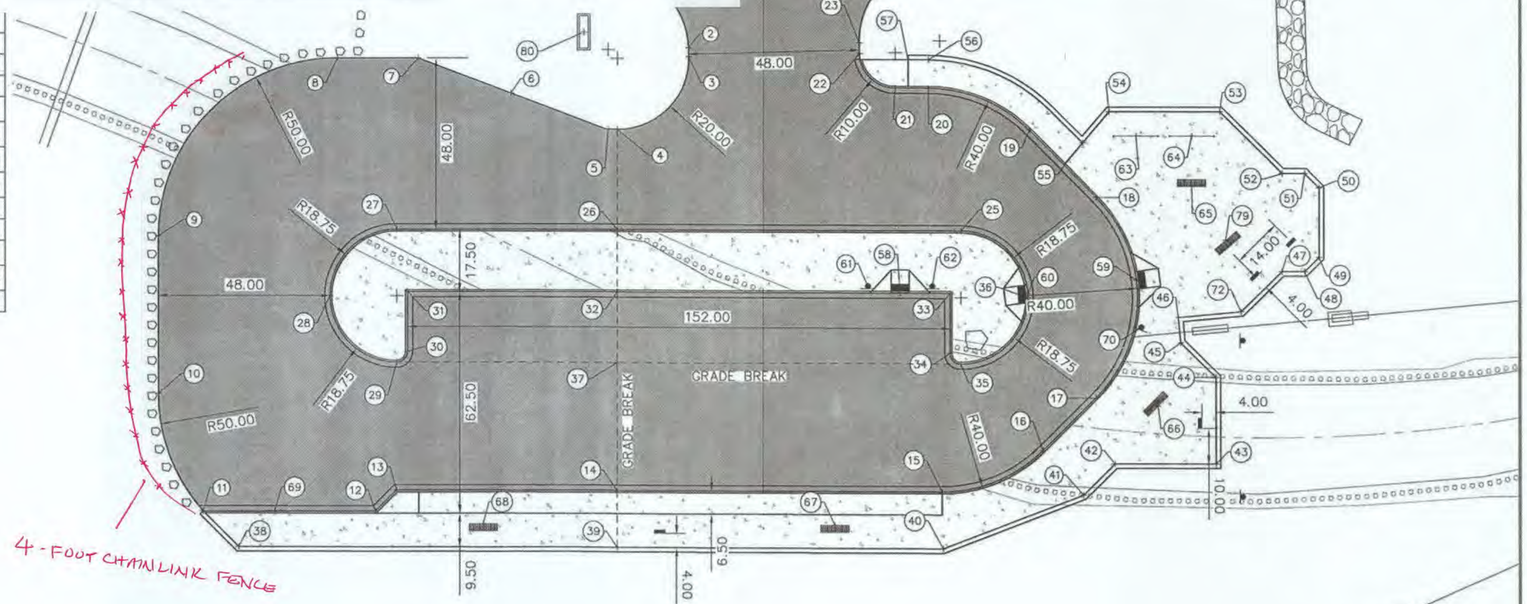
WAYSIDE PLAN

DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
		ALASKA	0972016/Z684590000	2016	G10	59

POINT TABLE				
POINT	STATION	OFFSET	ELEVATION	DESCRIPTION
1	1394+86.20	18.00	2274.98	EDGE OF ASPHALT
2	1395+08.70	40.54	2276.11	EDGE OF ASPHALT
3	1395+08.69	43.11	2277.14	EDGE OF ASPHALT
4	1394+88.08	63.07	2277.77	EDGE OF ASPHALT
5	1394+85.51	62.99	2277.67	EDGE OF ASPHALT
6	1394+58.78	52.07	2276.69	EDGE OF ASPHALT
7	1394+33.12	41.38	2275.75	EDGE OF ASPHALT
8	1394+10.46	40.68	2274.84	EDGE OF ASPHALT
9	1393+58.95	89.13	2272.80	EDGE OF ASPHALT
10	1393+57.59	133.57	2272.80	EDGE OF ASPHALT
11	1393+69.05	166.97	2272.80	FACE OF CURB
12	1394+17.30	168.45	2274.73	FACE OF CURB
13	1394+23.48	162.64	2274.91	FACE OF CURB
14	1394+84.98	164.52	2277.37	FACE OF CURB
15	1395+76.21	167.31	2278.74	FACE OF CURB
16	1396+04.84	156.46	2278.94	FACE OF CURB
17	1396+20.03	142.17	2279.08	FACE OF CURB
18	1396+21.76	85.63	2279.39	FACE OF CURB
19	1396+03.59	66.31	2279.38	FACE OF CURB
20	1395+75.68	53.74	2279.23	FACE OF CURB
21	1395+86.39	53.46	2279.18	FACE OF CURB
22	1395+56.69	43.44	2278.92	FACE OF CURB
23	1395+56.70	40.46	2278.28	FACE OF CURB
24	1395+65.99	22.29	2280.61	EDGE OF ASPHALT
25	1395+83.66	94.00	2278.66	FACE OF CURB
26	1394+87.22	91.05	2277.21	FACE OF CURB
27	1394+25.73	89.17	2274.75	FACE OF CURB
28	1394+06.42	107.34	2273.87	FACE OF CURB
29	1394+24.58	126.65	2274.55	FACE OF CURB
30	1394+27.67	123.75	2274.70	FACE OF CURB
31	1394+28.19	106.76	2274.87	FACE OF CURB
32	1394+86.69	108.54	2277.21	FACE OF CURB
33	1395+80.12	111.40	2278.61	FACE OF CURB
34	1395+79.60	128.39	2278.44	FACE OF CURB
35	1395+82.51	131.48	2278.46	FACE OF CURB
36	1396+01.82	113.32	2278.79	FACE OF CURB
37	1394+86.08	128.53	2277.01	PAVEMENT
38	1393+78.61	177.27	2273.79	SIDEWALK/WALL
39	1394+84.49	180.51	2278.03	SIDEWALK/WALL
40	1395+76.06	183.31	2279.40	SIDEWALK/WALL

POINT TABLE				
POINT	STATION	OFFSET	ELEVATION	DESCRIPTION
41	1396+15.79	169.33	2279.70	SIDEWALK/WALL
42	1396+24.87	160.81	2279.79	SIDEWALK/WALL
43	1396+53.21	161.62	2280.07	SIDEWALK/WALL
44	1396+53.91	137.28	2279.95	SIDEWALK/WALL
45	1396+44.36	127.17	2279.85	SIDEWALK/WALL
46	1396+43.89	120.06	2279.85	SIDEWALK/WALL
47	1396+73.27	107.87	2280.43	SIDEWALK/WALL
48	1396+79.71	108.06	2280.52	SIDEWALK/WALL
49	1396+83.83	104.17	2280.58	SIDEWALK/WALL
50	1396+84.39	84.64	2280.58	SIDEWALK/WALL
51	1396+80.50	80.53	2280.52	SIDEWALK/WALL
52	1395+74.06	80.35	2280.46	SIDEWALK/WALL
53	1396+57.22	62.65	2280.32	SIDEWALK/WALL
54	1396+26.05	61.76	2280.14	SIDEWALK/WALL
55	1396+18.39	70.36	2280.07	SIDEWALK/WALL
56	1395+75.92	45.74	2279.90	SIDEWALK/WALL
57	1395+70.23	45.57	2279.87	SIDEWALK/WALL
58	1395+66.13	110.97	2278.40	CENTER OF RAMP
59	1396+32.44	109.16	2279.77	CENTER OF RAMP
60	1396+01.82	112.15	2278.80	CENTER OF RAMP
61	1395+57.19	108.71	2278.77	SIGN
62	1395+75.19	109.25	2279.04	SIGN
63	1396+33.39	68.87	2280.12	BIKE RACK
64	1396+49.06	69.32	2280.21	BIKE RACK
65	1396+48.66	83.31	2280.12	FRONT/CENTER OF BENCH
66	1396+37.42	144.90	2279.87	FRONT/CENTER OF BENCH
67	1395+45.93	175.89	2278.88	FRONT/CENTER OF BENCH
68	1394+47.39	172.87	2276.47	FRONT/CENTER OF BENCH
69	1393+89.04	167.59	2273.60	CENTER OF RAMP
70	1396+33.34	122.54	2279.73	SIGN
72	1396+61.52	118.89	2280.15	SIDEWALK/WALL
79	1396+57.76	98.63	2280.22	FRONT/CENTER OF BENCH
80	1394+79.55	35.44	2274.53	WAYSIDE SIGN





1 **WAYSIDE CONTROL PLAN**

SCALE AS NOTED

30 0 30 60

SCALE IN FEET

6/9/20

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8-17-2016

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SKAGWAY - REPLACE CAPTAIN
WILLIAM HENRY MOORE BRIDGE

WAYSIDE CONTROL PLAN

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NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0972016/Z684590000	2016	G11	59

DATE | 10/11/2016 10:35 | LAYOUT | G11 | DESIGNED | HOBBS | CHECKED | NOBLE | DRAFTED | WESTPHAL

FILE | C:\Civil 3D Projects\24\70732-01\Civil\SC14-CT-G-PK-CWHM.dwg

REROUTED SOUTH DRAINAGE

NORTH

KLONDIKE HIGHWAY

1390+00 1391+00 1392+00 1393+00 1394+00 1395+00 1396+00 1397+00 1398+00 1399+00

4' CHAIN LINK FENCE

GRADE BREAK

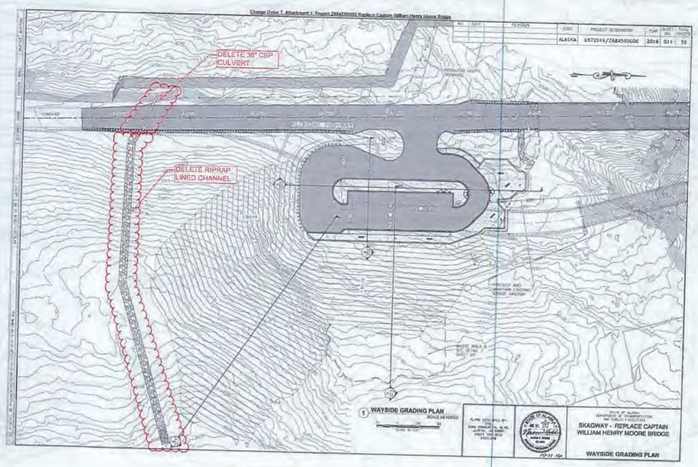
GRADE BREAK

1.5H:1V

1.5H:1V

DELETED BY C.O.#7

G12 G13



1 WAYSIDE GRADING PLAN

30 0 30 60
SCALE IN FEET

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10-11-16

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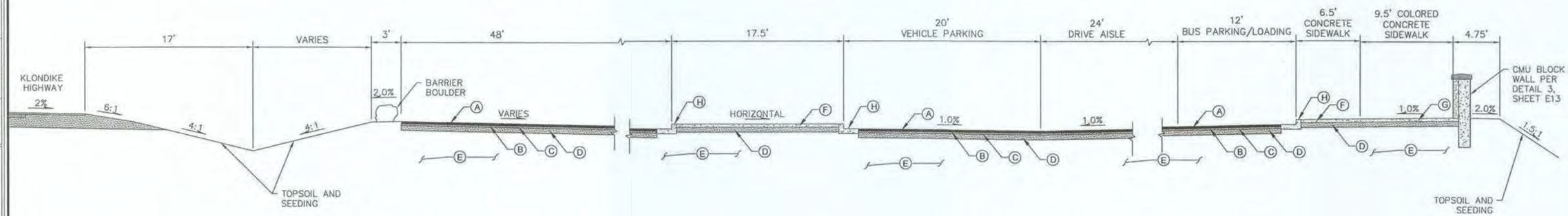
AND PUBLIC FACILITIES

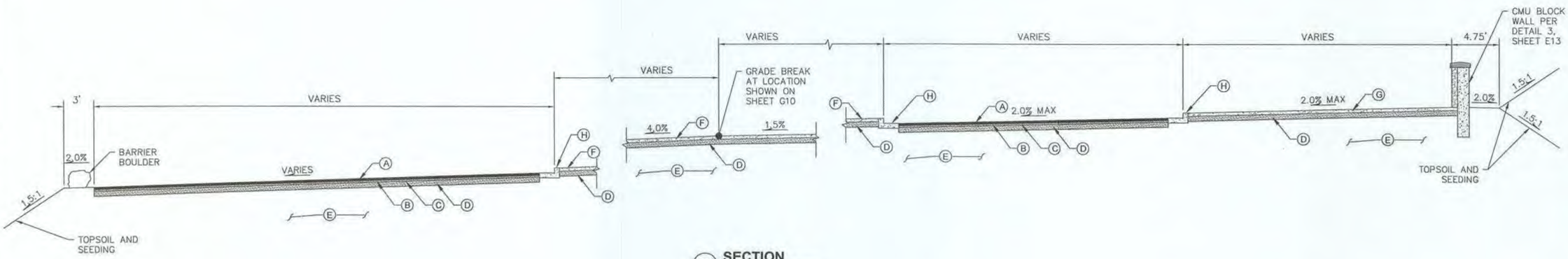
AY - REPLACE CAPTAIN
WILLIAM HENRY MOORE BRIDGE

WAYSIDE GRADING PLAN

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0972016/Z684590000	2016	G12	59



N SECTION



O SECTION

LABELING INDEX	
A	3" HMA, TYPE II, CLASS "B", 1-3" LIFT
B	STE-1 ASPHALT FOR TACK COAT
C	2" ATB,1- 2" LIFT (HMA, TYPE II, CLASS "B")
D	6" AGGREGATE BASE COURSE, GRADING D-1
E	10-INCH MINUS SHOT ROCK EMBANKMENT
F	4" CONCRETE SIDEWALK
G	4" COLORED CONCRETE SIDEWALK
H	STANDARD CURB AND GUTTER

NOTE:
1. MATERIAL UNDER ALL WAYSIDE PARKING IMPROVEMENTS; INCLUDING SIDEWALK, WALKWAY, WALLS, AND PAVEMENT SHALL BE 10" MINUS SHOT ROCK EMBANKMENT.

JP 6/9/20

PLANS DEVELOPED BY:
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8-17-2016

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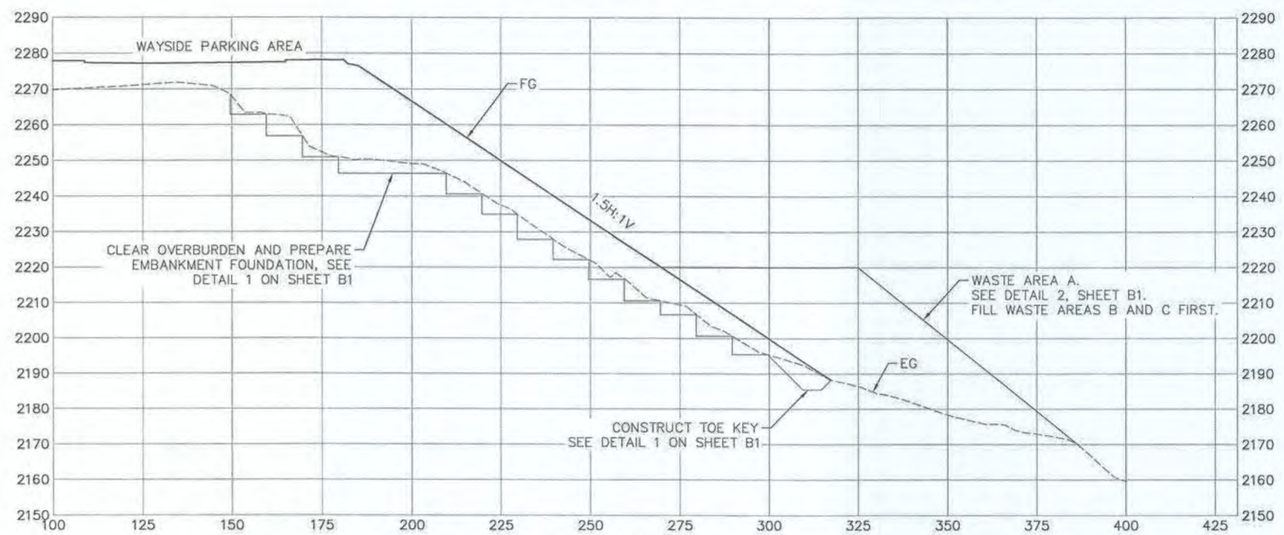
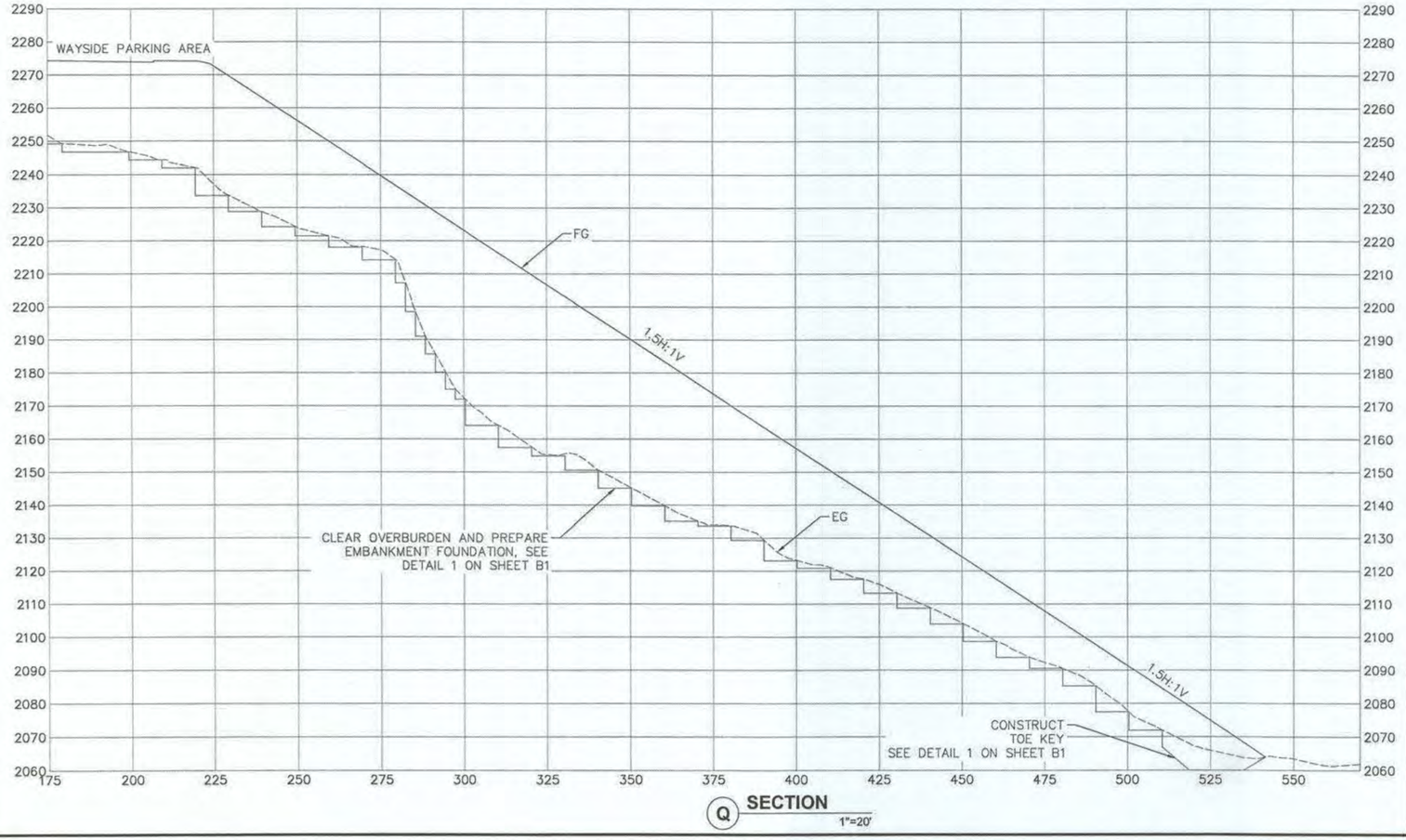
SKAGWAY - REPLACE CAPTAIN WILLIAM HENRY MOORE BRIDGE

SCENIC WAYSIDE TYPICAL CROSS SECTIONS

FILE C:\Civil 3D Projects\24\70732-01\Civil\SC14-CT-G-PX-CNHM.dwg | DATE 8/17/2016 10:44 | LAYOUT G12 | DESIGNED HOBBS | CHECKED NOBLE | DRAFTED WESTPHAL



P **SECTION** 1"=20'



Q **SECTION** 1"=20'

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0972016/Z684590000	2016	G13	59

P 6/9/20

PLANS DEVELOPED BY:
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SKAGWAY - REPLACE CAPTAIN WILLIAM HENRY MOORE BRIDGE

WAYSIDE EMBANKMENT CROSS SECTIONS

FILE C:\Civil 3D Projects\24\70732-01\Civil\SC14-CT-G-PK-CWHM.dwg | DATE 8/17/2016 10:44 | LAYOUT G13 | DESIGNED HOBBS | CHECKED NOBLE | DRAFTED WESTPHAL

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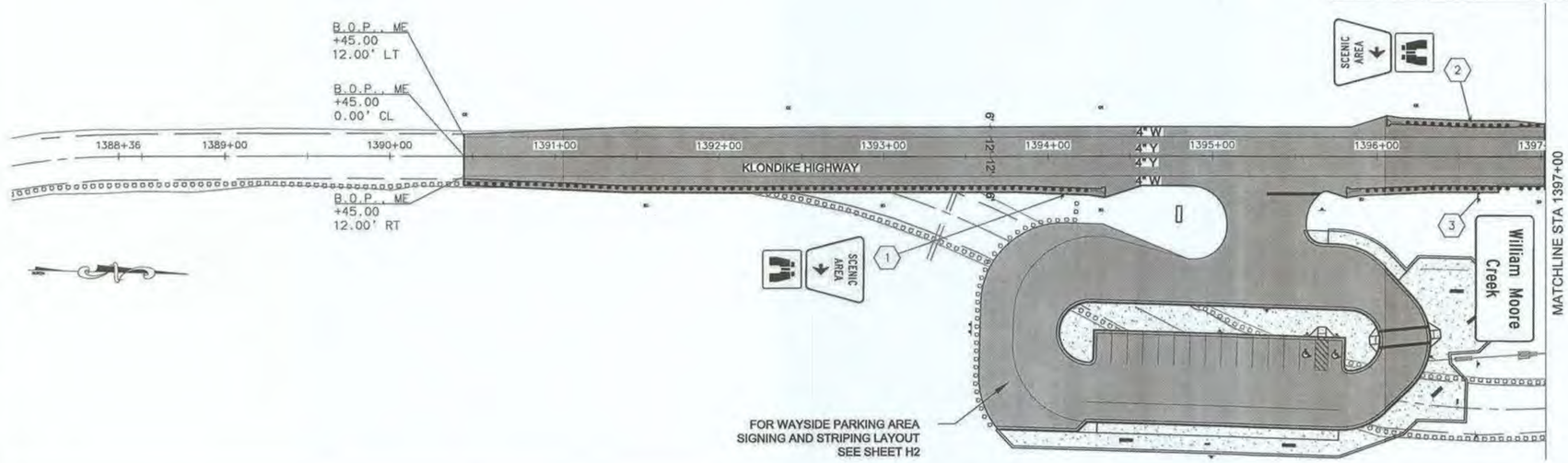
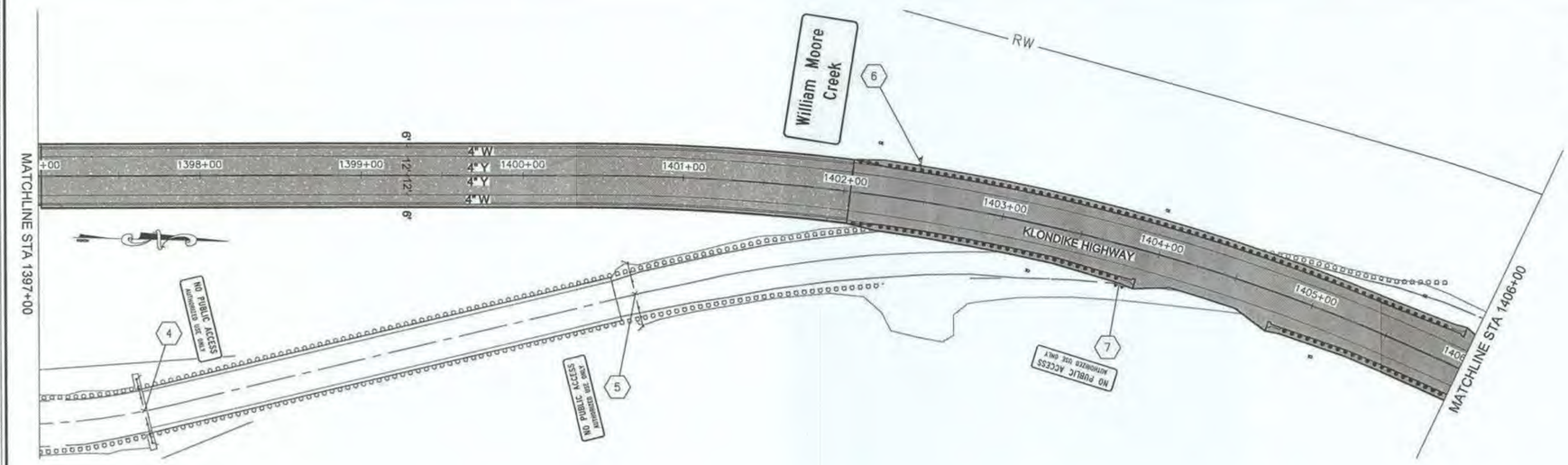


SYMBOL LEGEND

EXISTING	PROPOSED	
	#	SINGLE SIGN POST & NUMBER
	#	DOUBLE SIGN POST & NUMBER
		DELINEATOR SNOW POLE

PAVEMENT MARKING LEGEND

PROPOSED	
	PROJECT CENTERLINE
4"W	4" WHITE SOLID STRIPE
4"Y	4" YELLOW SOLID STRIPE
4"B	4" BLUE SOLID STRIPE
24"W	2' CROSSWALK OR STOP BAR



SIGNING & STRIPING NOTES:

1. ALL STATION LOCATIONS FOR SIGN INSTALLATION ARE APPROXIMATE. INSTALL SIGNS AT LOCATIONS AS DIRECTED BY THE ENGINEER.
2. USE THE FOLLOWING DEFINITIONS TO DECIPHER THE ABBREVIATED SIGN POST TYPES IN THE SIGN SUMMARY SHEETS.
   A. PST MEANS A PERFORATED STEEL TUBE.
   B. T MEANS A SQUARE STEEL TUBE.
3. IF THE NEW AND EXISTING PAVEMENT MARKINGS ARE NOT ALIGNED AT MATCH LINE, TRANSITION BETWEEN THE TWO USING A 100:1 TAPER ON THE NEW PAVEMENT.
4. PLACEMENT FOR RECESSED PAVEMENT MARKERS SHALL FOLLOW IN ACCORDANCE WITH THE STANDARD DRAWING T-06.00 DETAIL.

6/9/20

PLANS DEVELOPED BY:
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STATE OF ALASKA
49 TH
NAOMI R. HOBBS
CE 9959
REGISTERED PROFESSIONAL ENGINEER
8-17-2016

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SKAGWAY - REPLACE CAPTAIN WILLIAM HENRY MOORE BRIDGE

KLONDIKE HIGHWAY SIGNING AND STRIPING

FILE C:\Civil 3D Projects\24Y70732-01\Civil\SA14-GT-H-SG-CMM.dwg | DATE 8/16/2016 11:17 | LAYOUT H1 | DESIGNED HOBBS | CHECKED NOBLE | DRAFTED WESTPHAL

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0972016/Z684590000	2016	H2	59

0 20' 40'
SCALE IN FEET

6/9/20

PLANS DEVELOPED BY:
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STATE OF ALASKA
49TH
NAOMI R. HOBBS
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8·17·2016

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SKAGWAY - REPLACE CAPTAIN WILLIAM HENRY MOORE BRIDGE

WAYSIDE PARKING AREA SIGNING AND STRIPING

FILE C:\Civil 3D Projects\24\70732-01\Civil\SA14-CT-H-SG-CWHM.dwg | DATE 8/16/2016 11:17 | LAYOUT H2 | DESIGNED HOBBS | CHECKED NOBLE | DRAFTED WESTPHAL

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0972016/Z684590000	2016	H3	59

SHEET	POST NO.	STATION	CL OFFSET	CL REF	TYPE	LEGEND	SIZE (IN) WIDTH	SIZE (IN) HEIGHT	AREA (FT2)	SIGN FACES	POST NO., SIZE, & TYPE	FRAMED YES	FRAMED NO	REMARKS
H1	1	1394+08.72	24.05'	RT.	MODIFIED D7-105R	SCENIC AREA →	42	36	10.50	S	1-4.0" T	X		
					RG-1000		24	24	4.00	S			X	
H1	2	1396+56.70	23.08'	LT.	MODIFIED D7-105L	SCENIC AREA ←	42	36	10.50	N	1-4.0" T	X		
					RG-1000		24	24	4.00	N			X	
H1	3	1396+62.00	24.25'	RT.	I-3	William Moore Creek	78	36	19.50	S	2-3.0" T	X		
H1	4	1397+65.27	146.59'	RT.	CUSTOM	NO PUBLIC ACCESS AUTHORIZED USE ONLY	54	16	6.00	S		X		MOUNT ON GATE
H1	5	1400+71.35	73.83'	RT.	CUSTOM	NO PUBLIC ACCESS AUTHORIZED USE ONLY	54	16	6.00	N		X		MOUNT ON GATE
H1	6	1402+44.00	24.23'	LT.	I-3	William Moore Creek	78	36	19.50	N	2-3.0" T	X		
H1	7	1403+81.01	25.85'	RT.	CUSTOM	NO PUBLIC ACCESS AUTHORIZED USE ONLY	54	16	6.00	NW	2-2.0" T	X		
H2	8	1395+32.61	94.44'	RT.	R6-2R	ONE WAY →	24	30	5.00	W	1-2.5" PST		X	
H2	9	1393+52.39	107.44'	RT.	MODIFIED D9-105	RV	24	24	4.00	N	1-2.5" PST		X	
						PARKING	24	6	1.00	N			X	
H2	10	1393+52.53	102.94'	RT.	D9-309		24	24	4.00	N	1-2.5" PST		X	
						NO CAMPING	24	6	1.00	N			X	
H2	11	1394+99.04	184.21'	RT.	D9-309		24	24	4.00	W	1-2.5" PST		X	
						NO CAMPING	24	6	1.00	W			X	

P 6/9/20

PLANS DEVELOPED BY:
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STATE OF ALASKA 49TH
NAOMI R. HOBBS
CE 9959
REGISTERED PROFESSIONAL ENGINEER
8-17-2016

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SKAGWAY - REPLACE CAPTAIN
WILLIAM HENRY MOORE BRIDGE

SIGN SUMMARY

FILE C:\Civil 3D Projects\24\70732-01\Civil\SA14-CT-H-SG-CWHM.dwg | DATE 8/16/2016 11:17 | LAYOUT H3 | DESIGNED HOBBS | CHECKED NOBLE | DRAFTED WESTPHAL

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0972016/Z684590000	2016	H4	59

SHEET	POST NO.	STATION	CL OFFSET	CL REF	TYPE	LEGEND	SIZE (IN) WIDTH	SIZE (IN) HEIGHT	AREA (FT2)	SIGN FACES	POST NO., SIZE, & TYPE	FRAMED YES	FRAMED NO	REMARKS
H2	12	1395+04.22	107.09'	RT.	D9-309		24	24	4.00	E	1-2.5" PST		X	
						NO CAMPING	24	6	1.00	E			X	
H2	13	1395+57.19	108.71'	RT.	R7-8		12	18	1.50	E	1-2.0" PST		X	
					R7-8A	VAN ACCESSIBLE	12	6	0.50				X	
H2	14	1395+75.19	109.25'	RT.	R7-8		12	18	1.50	E	1-2.0" PST		X	
					R7-8A	VAN ACCESSIBLE	12	6	0.50				X	
H2	15	1396+60.46	170.99'	RT.	R9-3A		24	24	4.00	S	1-2.5" T		X	
					R5-6		24	24	4.00				X	
					CUSTOM	PAST THIS POINT	24	6	1.00				X	
H2	16	1396+61.72	127.01'	RT.	R9-3A		24	24	4.00	S	1-2.5" T		X	
					R5-6		24	24	4.00				X	
					CUSTOM	PAST THIS POINT	24	6	1.00				X	
H2	17	1396+33.34	122.54'	RT.	W11-2		30	30	6.25	SE	1-2.5" T		X	
					W16-7PL		24	12	2.00				X	
H2	18	1395+66.39	32.28'	RT.	R1-1		36	36	9.00	E	1-3.0" T	X		
						SIGN AREA: 150.25								

6/9/20

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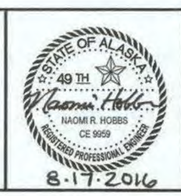

8-17-2016

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SKAGWAY - REPLACE CAPTAIN WILLIAM HENRY MOORE BRIDGE

SIGN SUMMARY

FILE C:\Civil 3D Projects\24\70732-01\Civil\SA14-CT-H-SG-CWHM.dwg | DATE 8/16/2016 11:17 | LAYOUT H4 | DESIGNED HOBBS | CHECKED NOBLE | DRAFTED WESTPHAL

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0972016/Z684590000	2016	P1	59

ESCP NOTES:

1. THE ESCP SHEETS ARE NOT A COMPREHENSIVE REPRESENTATION OF ALL BMPS REQUIRED TO MAINTAIN COMPLIANCE WITH THE CONSTRUCTION GENERAL PERMIT (CGP). BMPS SHOWN ON THE ESCP SHEETS ARE ONLY A STARTING POINT FOR THE CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE FOR IMPLEMENTING ANY ADDITIONAL BMPS TO ACCOUNT FOR THEIR PHASING AND METHODS OF CONDUCTING WORK.

2. EROSION CONTROL MEASURES WILL BE EVALUATED BY THE ENGINEER BASED ON EFFECTIVENESS. IF INSPECTION REVEALS EROSION CONTROL MEASURES ARE INEFFECTIVE, THE CONTRACTOR SHALL IMMEDIATELY IMPLEMENT CORRECTIVE ACTION, AS NECESSARY, TO CORRECT THE DEFICIENCY.

3. CONTRACTOR SHALL ESTABLISH MATERIAL STORAGE AND STAGING AREAS WITHIN THE ROW.

4. PRESERVE EXISTING VEGETATION WHEN PRACTICAL.

5. THE CONTRACTOR SHALL USE CONTROL MEASURES TO ENSURE THAT CONSTRUCTION ACTIVITIES HAVE MINIMAL IMPACTS ON THE NATURAL BUFFER AREAS OF RECEIVING WATERS. ALL DISTURBED PROJECT AREAS ADJACENT TO IN-WATER WORK SHALL BE RESTORED TO THEIR FUNCTIONAL CAPACITY, OR PLANNED DESIGN, UNLESS DIRECTED BY THE ENGINEER.

6. ALL DISTURBED AREAS NOT RECEIVING ROCK CUT, ROCK FILL, HMA PAVEMENT OR RIPRAP SHALL RECEIVE HYDROSEED WITH MULCH AS A FINAL STABILIZATION MEASURE, UNLESS OTHER TREATMENTS ARE REQUIRED BY PERMIT CONDITIONS.

7. REMOVE ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES AND DEVICES AFTER PROJECT COMPLETION.

8. THE PROJECT LIMITS ARE SURROUNDED BY NATURAL VEGETATION WHICH SERVES AS A VEGETATIVE BUFFER STRIP.

9. CONTRACTOR WILL MINIMIZE OFF-SITE VEHICLE TRACKING OF SEDIMENT FROM WHEELS TO PREVENT TRACK-OUT ONTO PAVED SURFACES. SEDIMENT THAT ESCAPES THE CONSTRUCTION SITE, MUST BE REMOVED AT A FREQUENCY TO MINIMIZE OFF-SITE IMPACTS.

ESCP LEGEND

- CULVERT INLET/OULET SEDIMENT BARRIER
- CHECK DAM
- PERIMETER CONTROL SEDIMENT BARRIER
- RW — PROJECT RIGHT OF WAY
- VEGETATIVE BUFFER STRIP
- CULVERT FLOW
- PROFILE FLOW
- SURFACE FLOW
- DITCH LINE
- OBLITERATION OF ROADWAY
- DISCHARGE POINT
- CUT LIMIT
- FILL LIMIT
- RIPRAP
- INVASIVE SPECIES

6/9/20

PLANS DEVELOPED BY:
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ESCP NOT SEALED IN ACCORDANCE WITH ALASKA HIGHWAY PRECONSTRUCTION MANUAL SECTION 1120.7.3 DATED NOVEMBER 15, 2013

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SKAGWAY - REPLACE CAPTAIN WILLIAM HENRY MOORE BRIDGE

EROSION SEDIMENT CONTROL PLAN LEGEND AND NOTES

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0972016/Z684590000	2016	P2	59

RW

RW

SOUTH APPROACH CUT LIMITS

SOUTH DRAINAGE

EXISTING SOUTH DRAINAGE

SOUTH DRAINAGE RE-ROUTED

SOUTH STAGING AREA GRADE TO DRAIN

36" CSP CULVERT

B.O.P. STA 1390+45 MATCH EXISTING

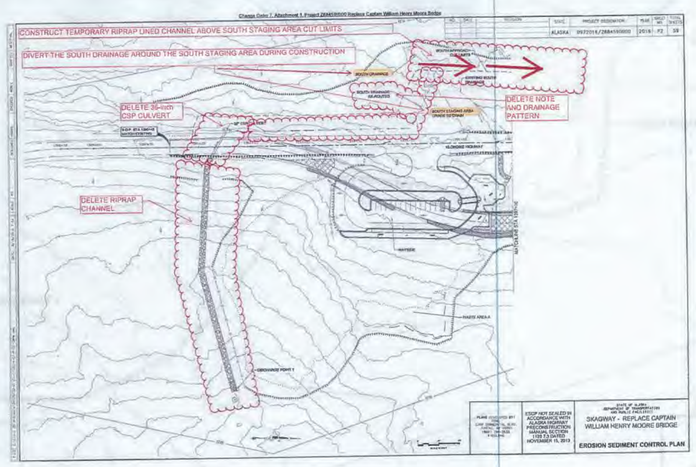
1388+36 1389+00 1390+00 1391+00 1392+00 1393+00 1394+00 1395+00 1396+00 1397

KLONDIKE HIGHWAY

DELETED By C.O. #7

WAYSIDE

MATCHLINE STA 1397+00



RW

0 40' 80'
SCALE IN FEET

4/20

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MERCIAL BLVD.
, AK 99801
780-3533
ECL848

ESCP NOT SEALED IN ACCORDANCE WITH ALASKA HIGHWAY PRECONSTRUCTION MANUAL SECTION 1120.7.3 DATED NOVEMBER 15, 2013

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

SKAGWAY - REPLACE CAPTAIN WILLIAM HENRY MOORE BRIDGE

EROSION SEDIMENT CONTROL PLAN

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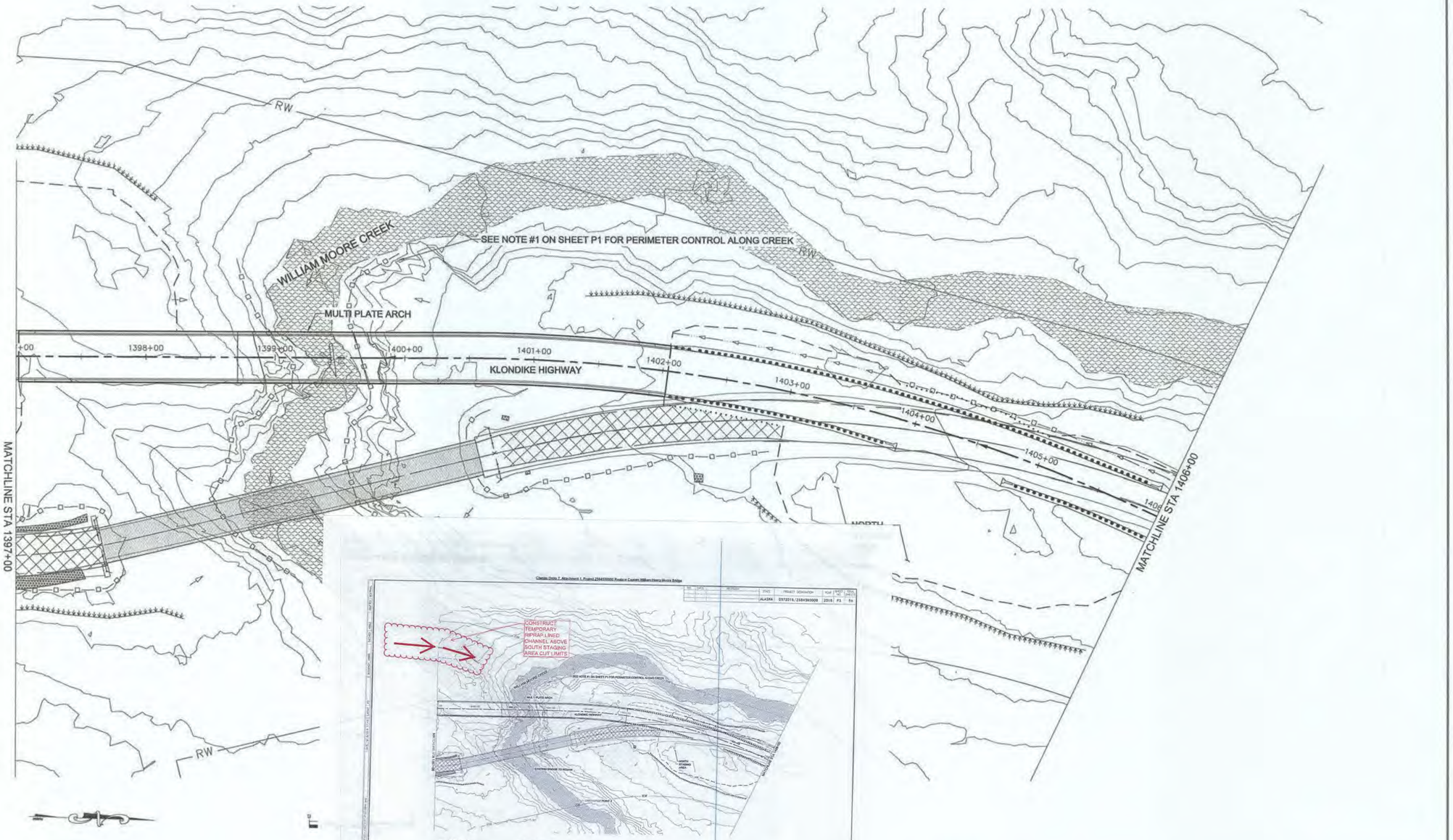
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0972016/Z684590000	2016	P3	59



6/9/20

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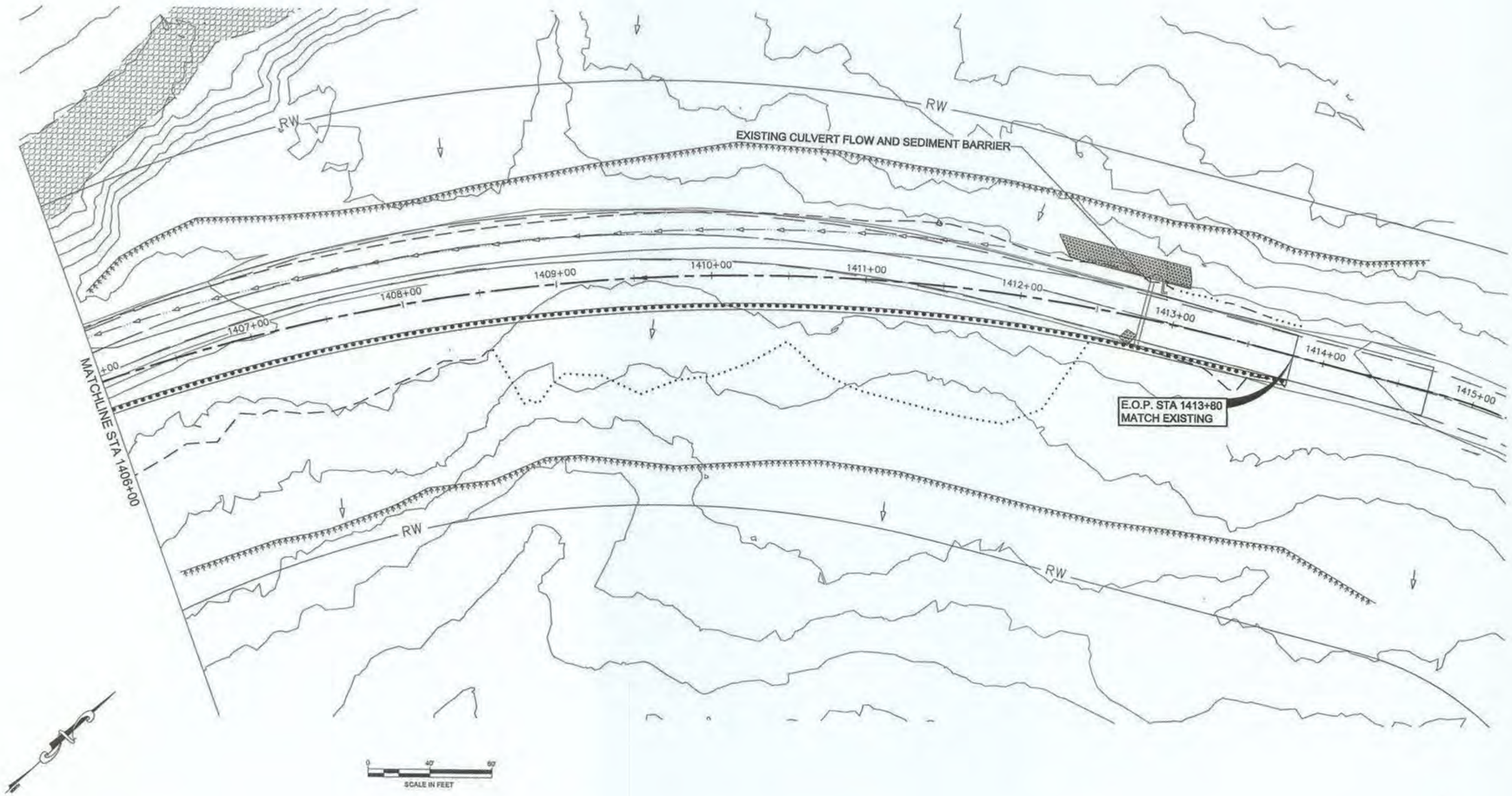
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SKAGWAY - REPLACE CAPTAIN
WILLIAM HENRY MOORE BRIDGE

EROSION SEDIMENT CONTROL PLAN

FILE | C:\Civil 3D Projects\24\70732-01\Civil\SC14-CT-P-EC-CWHM.dwg | DATE | 8/16/2016 17:40 | LAYOUT | P3 | DESIGNED | HOBBS | CHECKED | NOBLE | DRAFTED | WESTPHAL

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0972016/Z684590000	2016	P4	59



6/9/20

PLANS DEVELOPED BY:	ESCP NOT SEALED IN ACCORDANCE WITH ALASKA HIGHWAY PRECONSTRUCTION MANUAL SECTION 1120.7.3 DATED NOVEMBER 15, 2013	STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES SKAGWAY - REPLACE CAPTAIN WILLIAM HENRY MOORE BRIDGE **EROSION SEDIMENT CONTROL PLAN**
DOWL 5368 COMMERCIAL BLVD, JUNEAU, AK 99801 (907) 780-3533 #AECL848		

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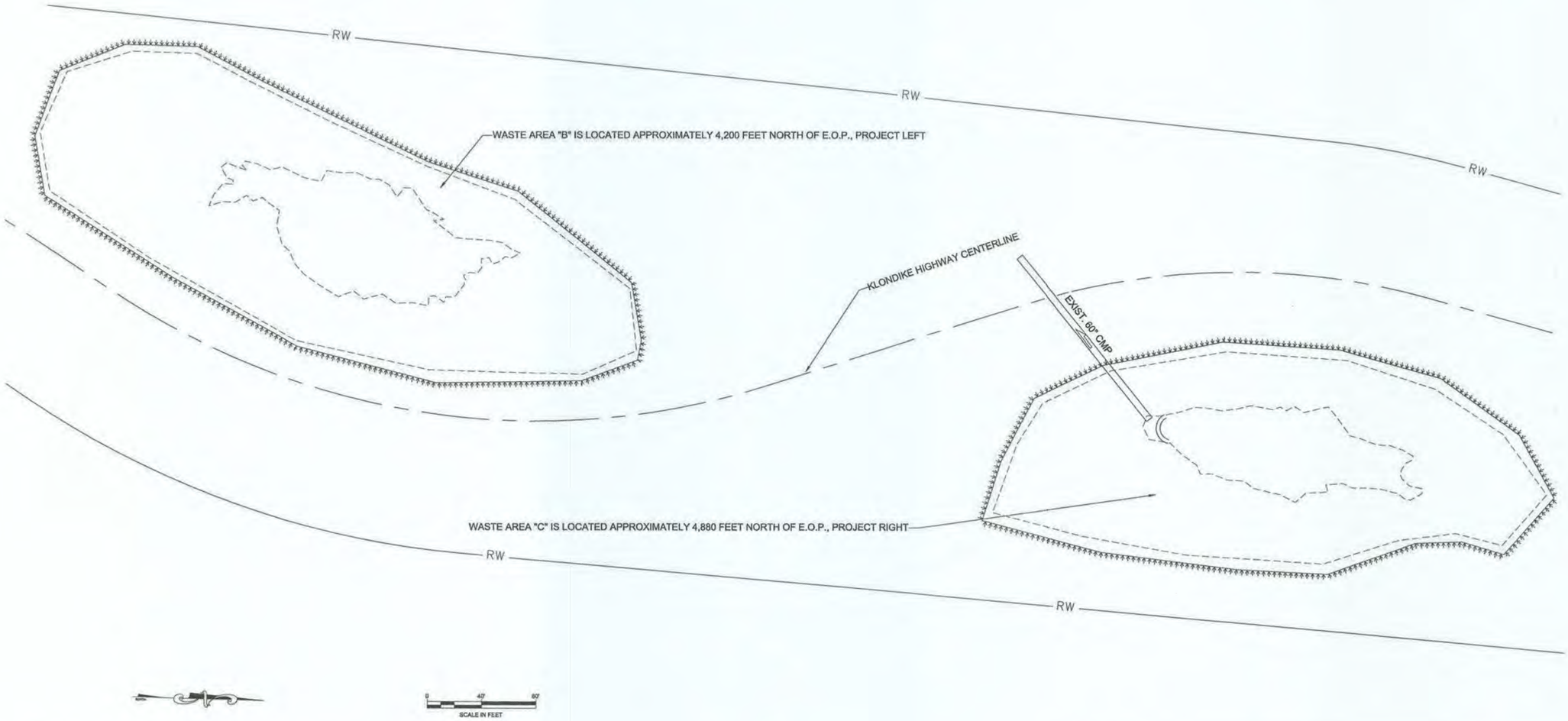
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0972016/Z684590000	2016	P5	59



NOTES:

WASTE AREAS ARE CONSIDERED PART OF THE DISTURBED AREA AND APPROPRIATE BMPS WILL BE INSTALLED TO PREVENT SEDIMENT CONTAMINATION TO WATERS. PROTECT ALL DISCHARGE POINTS NEAR WASTE AREAS.

5/9/20

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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SKAGWAY - REPLACE CAPTAIN WILLIAM HENRY MOORE BRIDGE

EROSION SEDIMENT CONTROL PLAN

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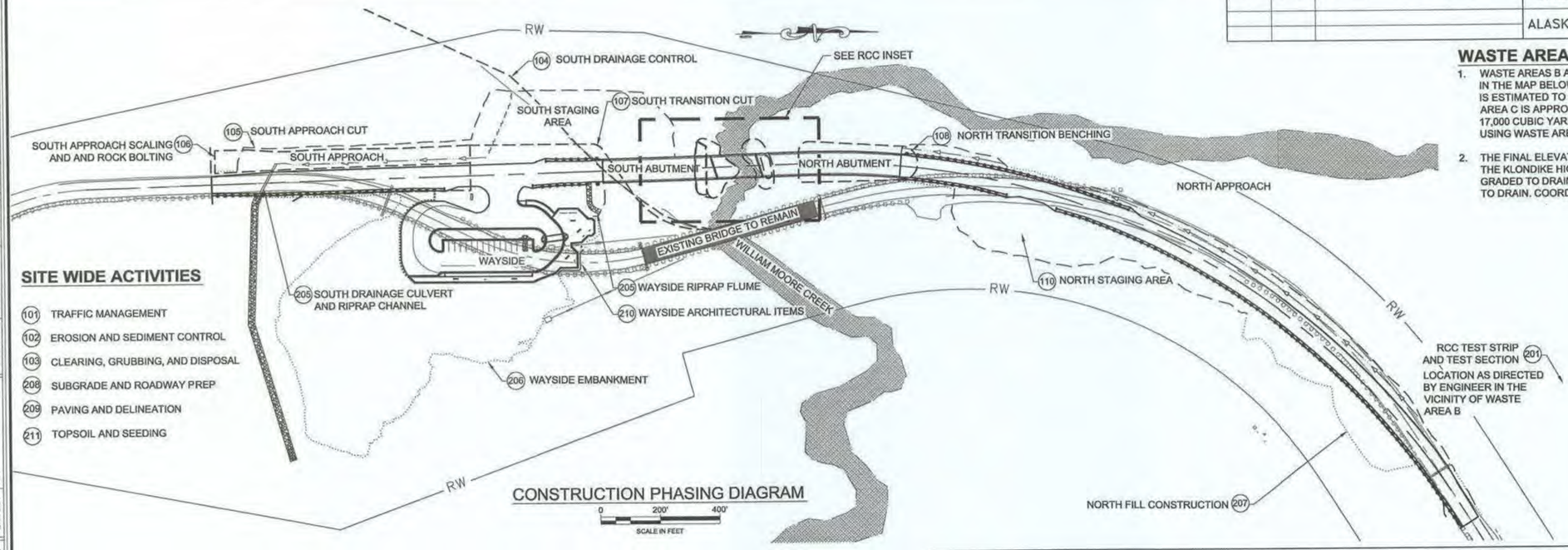
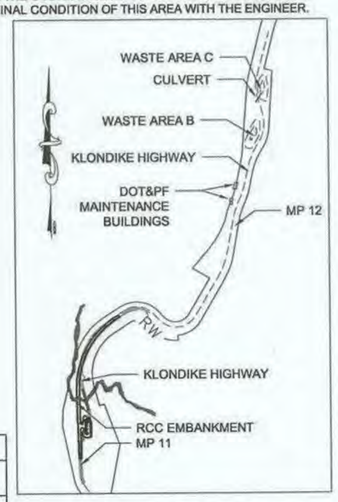
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0972016/Z684590000	2016	S1	59



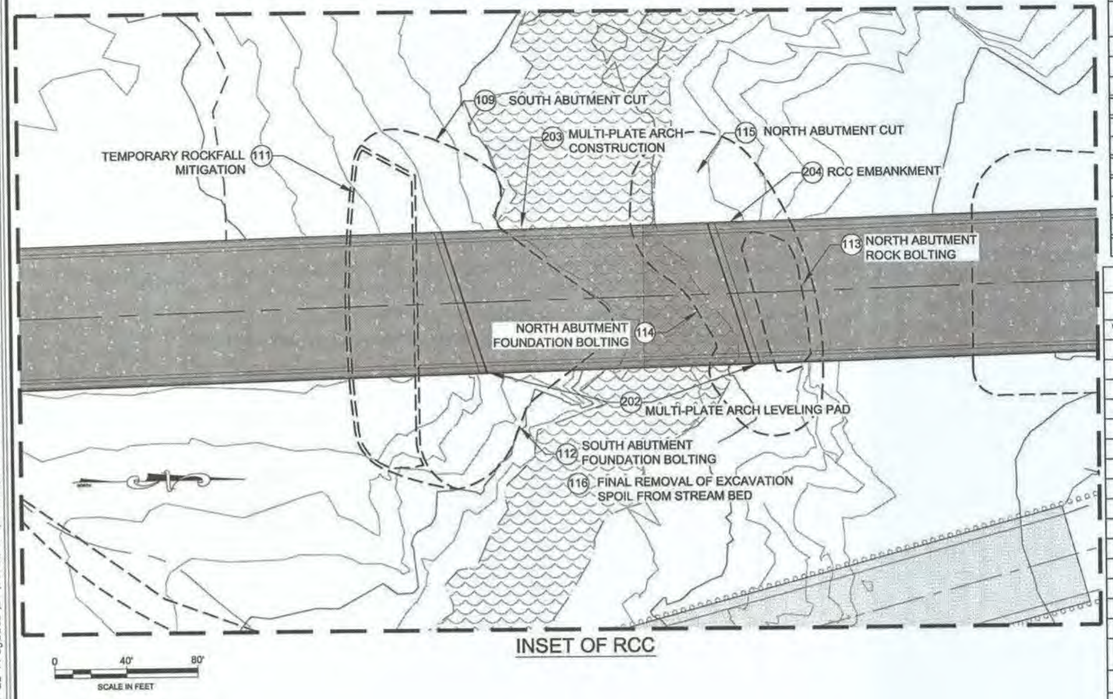
WASTE AREA NOTES

1. WASTE AREAS B AND C ARE LOCATED NORTH OF THE PROJECT AREA AS SHOWN IN THE MAP BELOW. WASTE AREA B IS APPROXIMATELY 1.35 ACRES IN SIZE AND IS ESTIMATED TO ACCOMMODATE 25,000 CUBIC YARDS OF WASTE MATERIAL. AREA C IS APPROXIMATELY 1.07 ACRES AND IS ESTIMATED TO ACCOMMODATE 17,000 CUBIC YARDS OF WASTE MATERIAL. FILL WASTE AREAS B AND C BEFORE USING WASTE AREA A.
2. THE FINAL ELEVATION OF BOTH WASTE AREAS SHALL BE THREE FEET BELOW THE KLONDIKE HIGHWAY ELEVATION ADJACENT TO THE WASTE AREA AND BE GRADED TO DRAIN. LEAVE THE CULVERT OUTLET FROM WASTE AREA C CLEAR TO DRAIN. COORDINATE FINAL CONDITION OF THIS AREA WITH THE ENGINEER.



WASTE AREA LOCATIONS

0 0.2 0.4
SCALE IN MILES



INSET OF RCC

DEPENDENCY TABLE

COMPLETE		BEFORE STARTING	
WORK ITEM #	TITLE	WORK ITEM #	TITLE
105	SOUTH APPROACH CUT	109	SOUTH ABUTMENT CUT
107	SOUTH TRANSITION CUT		
112	NORTH ABUTMENT ROCK BOLTS	114	NORTH ABUTMENT CUT
113	NORTH ABUTMENT FOUNDATION BOLTING		
111	SOUTH ABUTMENT FOUNDATION BOLTING	203	MULTI-PLATE ARCH CONCRETE LEVELING PAD
113	NORTH ABUTMENT FOUNDATION BOLTING		
201	RCC TEST STRIP AND TEST SECTION	204	RCC EMBANKMENT PLACEMENT

WORK ITEM TABLE

ANTICIPATED SEASON 1 ITEMS

WORK ITEM #	TITLE
101	TRAFFIC MANAGEMENT
102	EROSION AND SEDIMENT CONTROL
103	CLEARING, GRUBBING, AND DISPOSAL
104	SOUTH DRAINAGE CONTROL
105	SOUTH APPROACH AND STAGING AREA CUT
106	SOUTH APPROACH SCALING AND ROCK BOLTING
107	SOUTH TRANSITION CUT
108	NORTH TRANSITION BENCHING
109	SOUTH ABUTMENT CUT
110	NORTH STAGING AREA CUT
111	TEMPORARY ROCKFALL PROTECTION
112	SOUTH ABUTMENT FOUNDATION BOLTING
113	NORTH ABUTMENT ROCK BOLTING
114	NORTH ABUTMENT FOUNDATION BOLTING
115	NORTH ABUTMENT CUT
116	REMOVAL OF EXCAVATION SPOIL FROM STREAMBED
206	WAYSIDE EMBANKMENT
207	NORTH FILL CONSTRUCTION

WORK ITEM TABLE (CONT.)

ANTICIPATED SEASON 2 ITEMS

WORK ITEM #	TITLE
201	RCC TEST STRIP AND TEST SECTION
202	MULTI-PLATE ARCH CONCRETE LEVELING PAD
203	MULTI-PLATE ARCH CONSTRUCTION
204	RCC EMBANKMENT
205	SOUTH DRAINAGE CULVERT/RIPRAP CHANNEL AND WAYSIDE RIPRAP FLUME
206	WAYSIDE EMBANKMENT (CONTINUED)
207	NORTH FILL CONSTRUCTION (CONTINUED)
208	SUBGRADE AND ROADWAY PREP
209	PAVING AND DELINEATION
210	WAYSIDE ARCHITECTURAL ITEMS
211	TOPSOIL AND SEEDING

PLANS DEVELOPED BY:
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STATE OF ALASKA 49TH — NAOMI R. HOBBS CE 9959 REGISTERED PROFESSIONAL ENGINEER — 9/16/16

6/9/20

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

SKAGWAY - REPLACE CAPTAIN WILLIAM HENRY MOORE BRIDGE

CONSTRUCTION PHASING DIAGRAM

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ADDENDUM #1; ATTACHEMENT #1

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0972016/Z684590000	2016	T1	59

TRAFFIC CONTROL NOTES

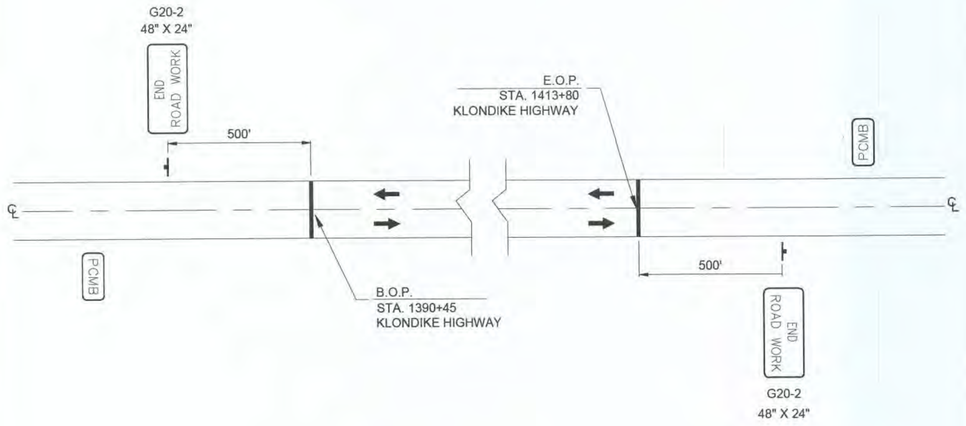
1. IT IS THE INTENT OF THIS TRAFFIC CONTROL PLAN (TCP) TO ILLUSTRATE SOME BUT NOT ALL OF THE TRAFFIC CONTROL CONFIGURATIONS THAT WILL BE REQUIRED BY THIS PROJECT. TRAFFIC CONTROL PLANS FOR CONFIGURATIONS NOT COVERED BY THIS TCP SHALL BE DEVELOPED BY THE CONTRACTOR. ALL TCP'S MUST BE SUBMITTED FOR APPROVAL BY THE ENGINEER PRIOR TO USE.
2. TWO LANES SHALL BE MAINTAINED AT ALL TIMES IN NON-WORK AREAS AND DURING NON-WORKING HOURS. FLAGGERS MUST BE PRESENT FOR ANY LANE CLOSURES. FLAGGER STATIONS MUST BE ILLUMINATED AT NIGHT.
3. TEMPORARY TRAFFIC LANES SHALL BE A MINIMUM OF 11 FEET WIDE.
4. CONSTRUCTION SIGNING SHALL BE IN PLACE ONLY WHEN THE CONDITIONS EXIST FOR WHICH THE SIGNS ARE INTENDED. CONSTRUCTION SIGNS SHALL BE PLACED SUCH THAT THEY DO NOT OBSCURE EXISTING TRAFFIC SIGNS.
5. THE UNEVEN LANES (W8-11) SIGN SHOULD BE USED DURING OPERATIONS THAT CREATE A DIFFERENCE IN ELEVATION OF 2 INCHES OR GREATER BETWEEN ADJACENT LANES.
6. TYPE C WARNING LIGHTS SHALL BE USED ON ALL CHANNELIZING DEVICES PLACED ALONG OR AROUND ROADWAY HAZARDS.
7. KEEP THE PUBLIC INFORMED OF CONSTRUCTION ACTIVITIES. SEE SECTION 643-3.03 OF THE SPECIAL PROVISIONS.
8. EXPECT HIGHER TRAFFIC VOLUMES ASSOCIATED WITH THE ARRIVAL & DEPARTURE OF FERRIES AT THE ALASKA MARINE HIGHWAY TERMINAL IN SKAGWAY.
9. ALL TRAFFIC CONTROL PLANS SUBMITTED BY THE CONTRACTOR SHALL BE NUMBERED. ALL TRAFFIC CONTROL PLANS THAT USE A TYPICAL APPLICATION AS DESCRIBED IN THE MUTCD SHALL REFERENCE THE TYPICAL APPLICATION. EXAMPLE: TCP 3, MUTCD TA-10.
10. DO NOT RESTRICT TRAFFIC DURING THE TIMES, EVENTS, DATES AND SEASONS FOUND IN SECTION 643-3.08 OF THE SPECIAL PROVISIONS.
11. PROVIDE PCMBs FOR PERMANENT CONSTRUCTION SIGNING TWO WEEKS PRIOR TO START OF WORK THROUGH ONE WEEK AFTER COMPLETION. USE THE PCMB TO INFORM THE PUBLIC OF CONSTRUCTION STATUS. MESSAGE AND LOCATION WILL BE AS INDICATED IN THE APPROVED TCP.

TCP LEGEND

- SIGN
- CONE
- DRUM
- TYPE III BARRICADE
- FLAGGING STATION
- HI-LEVEL WARNING DEVICE
- PCMB — PORTABLE CHANGEABLE MESSAGE BOARD

TCP SETUP TABLE

POSTED SPEED OR ANTICIPATED OPERATING SPEED (MPH)	MIN MERGING TAPER LENGTH (L) IN FEET FOR A GIVEN WIDTH OF OFFSET (W) IN FEET			MIN NUMBER OF DEVICES FOR A GIVEN WIDTH OF OFFSET (W) IN FEET			MAX DEVICE SPACING IN FEET		BUFFER SPACE
	10	11	12	10	11	12	ALONG TAPER	ALONG TANGENT	(FT)
20 OR BELOW	70	75	80	5	5	5	25	50	115
25	105	115	125	6	6	6	25	50	155
30	150	165	180	6	7	7	30	60	200
35	205	225	245	7	8	8	35	70	250
40	270	295	320	8	9	9	40	80	305
45	450	495	540	11	12	13	45	90	360



PERMANENT CONSTRUCTION SIGNING

SIGN FOR 48 HOUR ADVANCED NOTICE OF BLASTING

SIGNS SHALL BE ORANGE BACKGROUND WITH BLACK BORDER AND TEXT. SIGNS SHALL INCLUDE THE DAY OF CLOSURE, BEGINNING TIME OF CLOSURE, AND EXPECTED TIME THE ROAD WILL REOPEN. SIGNS SHALL BE IN PLACE A MINIMUM OF 48 HOURS PRIOR TO ROAD CLOSURE. REMOVABLE PANELS MAY BE USED TO CHANGE THE DAY AND TIME. SIGN LETTERING IS DESIGNATED BY SIZE AND FHWA "SERIES 2000" LETTER SERIES. (EG "6C" MEANS A LETTER HEIGHT OF 6 INCHES WITH A SERIES C WIDTH)

6/9/20

PLANS DEVELOPED BY:
DOWL
5368 COMMERCIAL BLVD.
JUNEAU, AK 99801
(907) 780-3533
#AECL848

TCP NOT SEALED IN ACCORDANCE WITH ALASKA HIGHWAY PRECONSTRUCTION MANUAL SECTION 1400.3.5 DATED JANUARY 30, 2012

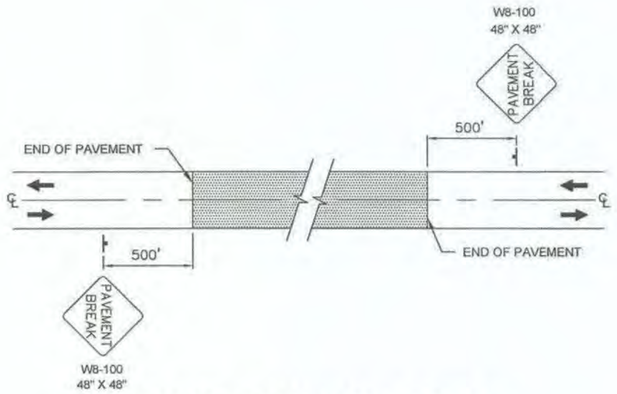
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

SKAGWAY - REPLACE CAPTAIN WILLIAM HENRY MOORE BRIDGE

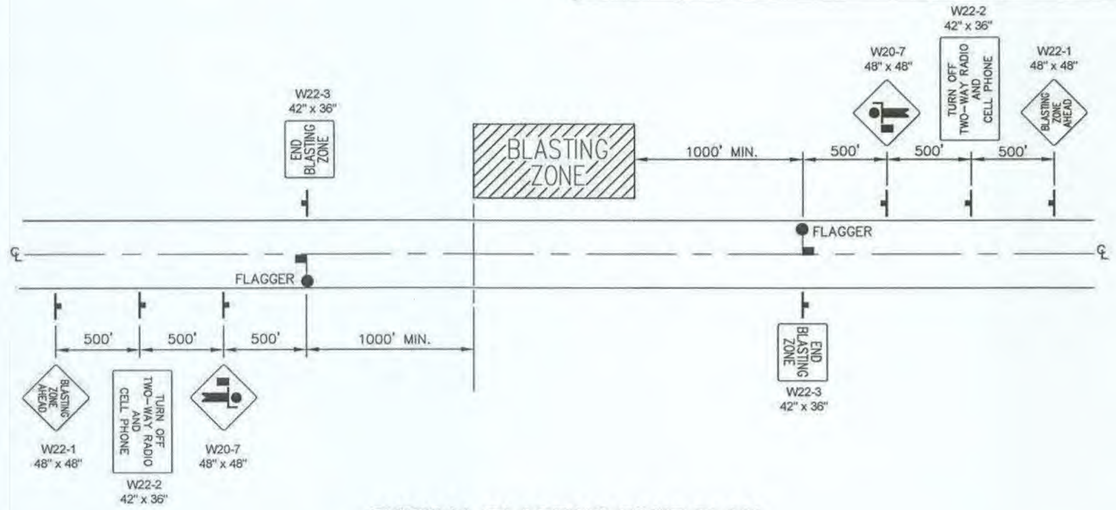
TRAFFIC CONTROL PLAN

FILE C:\Civil 3D Projects\24\70732-01\Civil\SC14-CT-T-TC-CWHM.dwg | DATE 10/24/2016 11:01 | LAYOUT T1 | DESIGNED HOBBS | CHECKED NOBLE | DRAFTED WESTPHAL

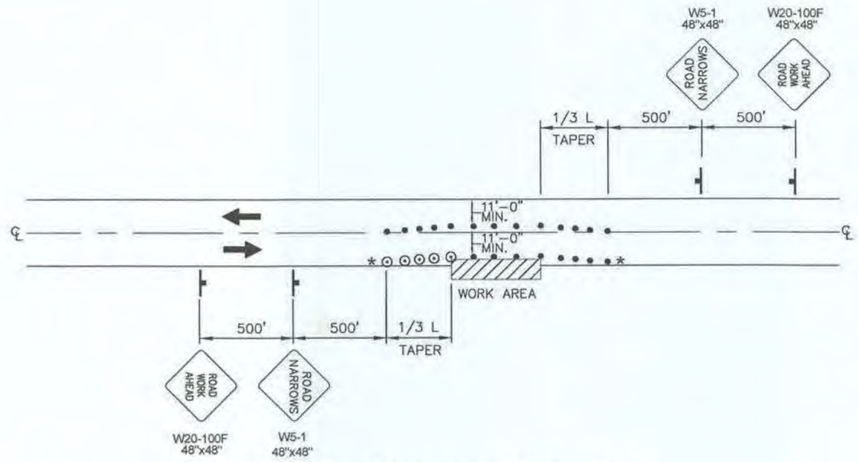
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0972016/Z684590000	2016	T2	59



SIGNING FOR UNPAVED AREA



TYPICAL BLASTING ZONE PLAN



ROADWAY ENCROACHMENT

NOTE:
IF ONLY ONE LANE IS AFFECTED BY ROAD WORK (THAT IS, THE CONES ALONG THE WORK AREA ARE NO CLOSER THAN 10' TO CENTERLINE) THE CENTERLINE CONES FOR THE OPPOSING LANE SHALL BE DELETED.

* NO PARKING WITHIN 200' OF CONES OR DRUMS

6/9/20

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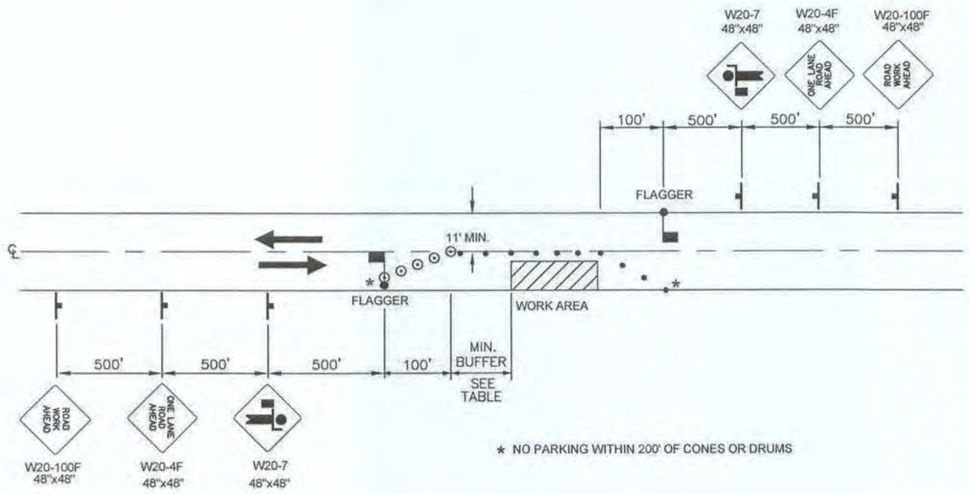
SKAGWAY - REPLACE CAPTAIN WILLIAM HENRY MOORE BRIDGE

TRAFFIC CONTROL PLAN

FILE | C:\Civil 3D Projects\24\70732-01\Civil\SC14-CT-T-TC-CWPM.dwg | DATE | 8/16/2016 12:14 | LAYOUT | T2 | DESIGNED | HOBBS | CHECKED | NOBLE | DRAFTED | WESTPHAL

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0972016/Z684590000	2016	T3	59



TWO LANE ROAD - SINGLE LANE CLOSURE

DOUBLE FLAGGER

6/9/20

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AND PUBLIC FACILITIES

SKAGWAY - REPLACE CAPTAIN WILLIAM HENRY MOORE BRIDGE

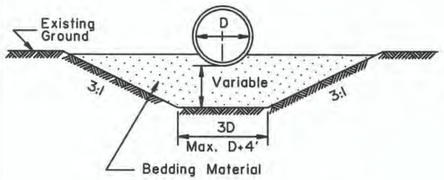
TRAFFIC CONTROL PLAN

FILE | C:\C\ivil 3D Projects\24\70732-01\C\ivil\SC14-CT-T-TC-CWHM.dwg | DATE | 8/16/2016 12:14 | LAYOUT | T3 | DESIGNED | HOBBS | CHECKED | NOBLE | DRAFTED | WESTPHAL

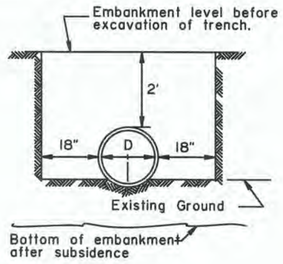
D-01.02

SHEET 1 of 1

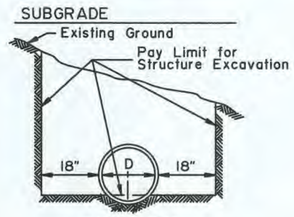
CULVERT PIPE



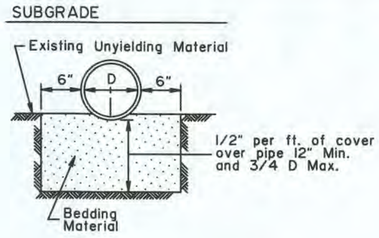
TYPE "A"
FOUNDATION STABILIZATION
To be used in unstable areas as directed by the Engineer.



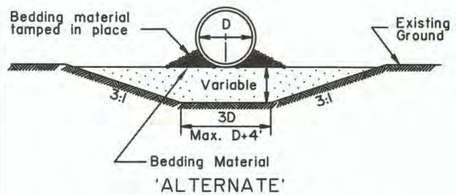
TYPE "B"



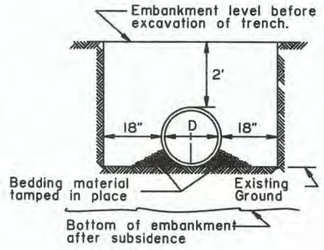
TYPE "C"



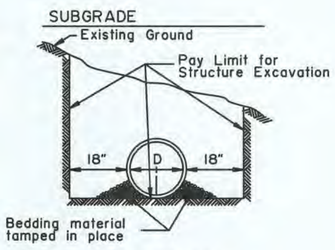
TYPE "D"
ROCK OR UNYIELDING MATERIAL



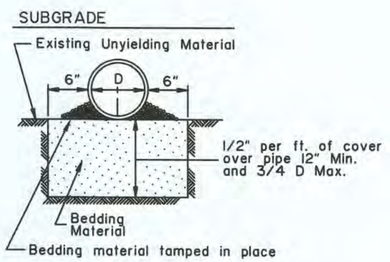
'ALTERNATE'
TYPE "A"
FOUNDATION STABILIZATION
To be used in unstable areas as directed by the Engineer.



'ALTERNATE'
TYPE "B"



'ALTERNATE'
TYPE "C"

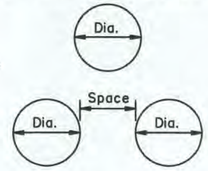


'ALTERNATE' TYPE "D"
ROCK OR UNYIELDING MATERIAL

GENERAL NOTES:

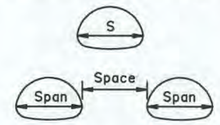
1. Sidefill shall be placed and compacted with care under haunches of pipe and shall be brought up evenly and simultaneously on both sides of pipe to 1 foot above the top of the full length of the pipe.
2. Alternate installation methods may only be used when specified or approved by the Engineer.

D = Nominal Pipe Diameter



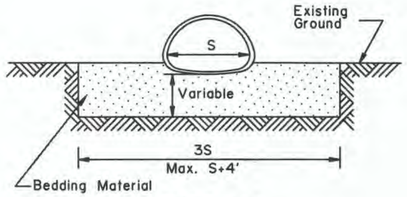
MULTIPLE INSTALLATIONS	
Dia.	Minimum Space Between Pipes
0" - 42"	24"
48" & Over	1/2 Dia. of pipe or 3', whichever is less.

S = Nominal Pipe Arch Span

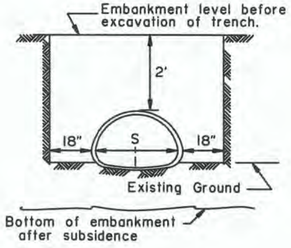


MULTIPLE INSTALLATIONS	
Dia.	Minimum Space Between Pipes
0" - 42"	24"
48" & Over	1/2 Span of pipe arch or 3', whichever is less.

ARCH



TYPE "A"
FOUNDATION STABILIZATION
To be used in unstable areas as directed by the Engineer.



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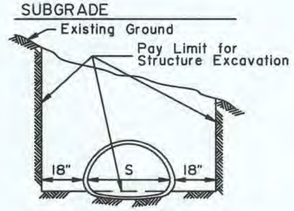
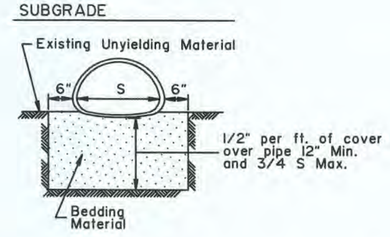


TYPE "C"



TYPE "D"
ROCK OR UNYIELDING MATERIAL

REVISIONS		
Date	Description	By
12/1/87	Delete ref. to Specs.	Gdo
4/1/93	Delete Alt. Arch	Gdo

12/9/20

State of Alaska
Department of Transportation & Public Facilities

CULVERT PIPE & ARCH INSTALLATION DETAILS

APPROVED 7/15/82

Date

D-01.02