

\dow| pw\d0391084\63772 A Title-A1 Fri Aug/20/21 09:43an

STATE	PROJECT DES	YEAR	SHEET NO.	TOTAL SHEETS	
ALASKA	0002280/Z63	2021	A1	67	
CDS ROL	JTE: N/A	MILEPOINT:	N/A	το Ν	/A

	INDEX OF SHEETS
SHEET NO.	DESCRIPTION
A1	TITLE SHEET
A2-A6	LEGEND, ABBREVIATIONS, NOTES, & SURVEY CONTROL
B1-B3	TYPICAL SECTIONS
C1	ESTIMATE OF QUANTITIES
D1-D2	SUMMARY TABLES
E1-E11	DETAILS
F1-F19	PLAN & PROFILE
G1	GRADING PLAN
H1-H2	LIGHTING PLAN
НЗ	SIGNAGE DETAILS AND SUMMARY
Q1	EROSION & SEDIMENT CONTROL PLAN
T1	TRAFFIC CONTROL PLAN
UE1-UE7	UTILITIES
V1-V12	ALASKA STANDARD PLANS

THE FOLLOWING ALASKA STANDARD PLANS APPLY TO THIS PROJECT: D-01.02, D-04.22, D-09.00, F-01.04, F-03.02, S-00.12, S-01.02, S-05.02, S-20.11

IARY
20 FT
1,500 FT
11.48 FT
6,012 FT
7,512 FT

CHRIS JOHNSTON, P.E., PROJECT MANAGER



STATE OF ALASKA DEPARTMENT OF TRANSPORTATION &
PUBLIC FACILITIES
DATE

Chris Johnston, P.E. Preconstruction Engineer, Northern Region ACCEPTED FOR CONSTRUCTION:

__ DATE ___

Ryan F. Anderson, P.E. Regional Director, Northern Region

	RECOVERED	<u>SET</u>	1	EXISTING	PROPOSED			NO. DATE	REVISION	STATE PROJECT DESIG	NATION YEAR SHEET TOTAL SHEETS
BLM MONUMENT	H	ļ	SANITARY SEWER (FLOW DIRECTION ——)	$- \rightarrow - \rightarrow SS -$	$\longrightarrow \longrightarrow SS \longrightarrow$					ALASKA 0002280/Z6377	20000 2021 A2 A6
GLO MONUMENT		ļ	FUEL LINE	$- \rightarrow - \rightarrow 0 -$	$\longrightarrow \longrightarrow 0$ —		EXISTING	PROPOSED	I	EXISTING	PROPOSED
USC&GS MONUMENT		1	GAS LINE	$- \rightarrow - \rightarrow$ G $-$	$\longrightarrow \longrightarrow G$	FENCE	— — x — — x — — x —	x x x x	JUNCTION BOX, TYPE IA		5
PRIMARY MONUMENT		8	WATER LINE	$\longrightarrow \longrightarrow W$ —	$\longrightarrow \longrightarrow W$	CURB AND GUTTER	L=====================================		JUNCTION BOX, TYPE II		6
CENTERLINE MONUMENT IN CASING	\bigcirc		METER, VALVE, FIRE HYDRANT	$\stackrel{\checkmark}{\longrightarrow} {\longrightarrow} {\longrightarrow} W \stackrel{\checkmark}{\searrow}$	_¢, ≭ , w _Ÿ	DETECTABLE WARNINGS			JUNCTION BOX, TYPE III		3
PRIMARY R.O.W. MONUMENT	\oplus		EXISTING STORM DRAIN (FLOW DIRECTION ——)	$- \rightarrow - \rightarrow SD - $		GUARDRAIL	. о о о о о о о о о о о о о о о о о о о	п	SIGNAL FACE, VEHICULAR	42>	42
BEARING OBJECT	*	ļ		(S-10)	S-11 P-11	CULVERT PIPE			SIGNAL FACE, BACKPLATE		42
MISCELLANEOUS MONUMENT	\otimes	ł	PROPOSED STORM DRAIN	(P-10)))	SIGN	् व व व	न व ई म	SIGNAL FACE, LEFT TURN	BACKPLATE	43
LINE OF SIGHT MONUMENT		θ	FIBER OPTIC LINE			MAILBOX	С™в	□Гмв	SIGNAL FACE, PEDESTRIAN	1 8	48
CONCRETE R.O.W. MONUMENT		ļ	DIRECT BURIAL TELEPHONE CABLE	T	——T	RAILROAD TRACKS	:======================================	+++++++++++++++++++++++++++++++++++++++	LOOP DETECTOR	33	73
BENCHMARK		BM	DIRECT BURIAL ELECTRIC CABLE	———E———	——— E ———	RAILROAD DEVICES		Y V	VIDEO DETECTOR	<2>	2
REBAR AND CAP	۲	Ô	ELECTRIC LINE (OVERHEAD)				CROSS-BUCK FLASHING LIGHT	CANTILEVER SWITCH	RADAR DETECTOR	<4	
REBAR	•	•	POWER POLE LINE	{;		TREE LINE			OPTICOM DETECTOR	-#(1)	-# -
IRON PIPE	۲	!	JOINT USE POWER & TELEPHONE	{ ^T }{ ^T /-	-tt-	WATER BOUNDARY		~	PEDESTRIAN PUSH BUTTO	N []	\square
PK NAIL		\bigtriangledown	TELEPHONE POLE LINE	00		ORDINARY HIGH WATER LINE			SIGNAL POST W/O MAST	ARM C	Ċ
SPIKE		×	POLE ANCHOR	2		FLOW CENTERLINE			SIGNAL POLE W/MAST AR	.м ()	4
HUB AND TACK		•	STUB POLE (POWER OR TELEPHON	1E) [] (Ļ Ļ	FLOW DIRECTION	~~		SIGNAL CONTROLLER		\ge
CONSTRUCTION CENTERLINE	5+00)	TELEPHONE DUCT	=== T ===		WETLANDS			LOAD CENTER		
MICELLANEOUS CENTERLINE	10+0	0 · · · ·	TELEPHONE PEDESTAL	<u></u>				HOUSE GARAGE MERCHANT/STORE RARN	LUMINAIRE	$\sim - \langle \chi \rangle$	0
STATION EQUATION	"L"48+97.23 P "0"48+97.23 F	OT BK=	BURIED CABLE MARKER	Ρ	The second se	EXISTING BUILDINGS		SHED PRIVY SERVICE STATION	RIGID METAL CONDUIT		
PROJECT RIGHT-OF-WAY LINE		R/W	PIPELINE MARKER OR VALVE		₽ ®		• • •	WAREHOUSE	ARCTIC PIPE UTILIDOR	+++++++++++++++++++++++++++++++++++++++	≣
EXISTING RIGHT-OF-WAY LINE			CATCH BASIN OR DROP INLET			WELL OR MONITORING WELL	The second second		WATER/SANITARY SEWER '	VAULT	
EXISTING PROPERTY LINE		!	MANHOLE	Омн	Омн		U U		UNKNOWN VAULT	$(\overline{\mathbf{I}})$	
CONTROLLED ACCESS LINE	<u> </u>	C/A	SANITARY SEWER CLEAN OUT				<u>୍</u>		BOARDWALK APPROACH		
EXISTING EASEMENT LINE	ı	<u> </u>				FUEL IANK FILL FIFE/VEINI			BOARDWALK EDGE		
PROPOSED EASEMENT LINE		/		,			y) SAT. DISH		GRAVEL ROAD EDGE		
PROPOSED CUT SLOPE LIMIT						TEST HOLE	UH ≩₩L2		GRADE BREAK		—-GB
PROPOSED FILL SLOPE LIMIT						CONIFER IRLE			PROJECT EXCLUSION ARE	A XXXXXX	
SECTION LINE						DECIDUOUS TREE					
1/4 SECTION LINE		'	1			GRAVE	+				
1/16 SECTION LINE			1			THERMOSIPHON	*				- minimu
TOWNSHIP & RANGE LINE	T. 2 N.		1			PARKING METER	ت ا				ATE OF ALL Y
IUWINGTIF & INTINGE LINE	T. 1 N.	, سا س	1			VEHICLE PLUG-IN	Ϋ				PRELIM'E
MEANDER LINE	M1M.	2 M3				DELINEATOR/GUIDE MARKER	€.		LE	GEND	WTOFESS IONNER THE

ABBREVIATIONS

ABC	_	AGGREGATE BASE COURSE	LC	_	LOAD CENTER	
AASHT	го —	AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS	LED	-	LIGHT EMITTING DIODE	
AC	_	ACRES	LF	-	LINEAR FEET	
ADA	_	AMERICANS WITH DISABILITIES ACT	LMA	-	LUMINAIRE MAST ARM	
BLDG	-	BUILDING	LP	-	LOW POINT	
BMP	-	BEST MANAGEMENT PRACTICES	LT	-	LEFT	
BOP	-	BEGINNING OF PROJECT	ME	-	MATCH EXISTING	
BOR	-	BEGINNING OF ROAD	MH	-	MANHOLE	
CCT	-	CORRELATED COLOR TEMPERATURE	MIN	-	MINIMUM	
CL	-	CENTER LINE	MTE	-	MATCH TO EXISTING	
CONC	-	CONCRETE	Ν	-	NORTH	
CONT	-	CONTINUOUS	NTS	-	NOT-TO-SCALE	
CPP	-	CORRUGATED POLYETHYLENE PIPE	OFF	-	OFFSET	
CTC	-	CENTER TO CENTER	OHV	-	OVERHEAD UTILITY	
CTE	-	CONNECT TO EXISTING	PC	-	POINT OF CURVATURE	
DEMO	_	DEMOLITION	PCC	-	POINT OF COMPOUND CURVATURE	
DFL	-	DOUGLAS FIR-LARCH	PGP	-	PROFILE GRADE POINT	
DIA	-	DIAMETER	POC	-	POINT-ON-CURVE	
DOT&F	PF –	DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES	PP	-	PLAN AND PROFILE	
DSC	-	DESCRIPTION	PT	-	POINT-OF-TANGENCY	
DTL	_	DETAIL	R	-	RADIUS	
DWY	_	DRIVEWAY	RD	-	ROAD	
E	_	EAST	RMC	-	RIGID METAL CONDUIT	
ĒA	_	EACH	ROW	-	RIGHT-OF-WAY	
EG	_	EXISTING GROUND	RP	-	RADIUS POINT	
EL	_	ELEVATION	RT	-	RIGHT	
EOP	_	END OF PROJECT	S	-	SOUTH	
EOR	_	END OF ROAD	SHT	-	SHEET	
FF	_	FINISHED FLOOR	SHLDR	-	SHOULDER	
FG	_	FINISHED GROUND	SS	-	SANITARY SEWER	
FI	_	FLOW LINE	ST	_	STREET	
GB	_	GRADE BREAK	STA	_	STATION	
GCI	_	GENERAL COMMUNICATIONS INC.	SWPPP	_	STORM WATER POLLUTION PREVENTION PLAN	
GP	_	GRADE POINT	SY	_	SQUARE YARD	
HDPF	_	HIGH DENSITY POLYETHELENE	TCE	_	TEMPORARY CONSTRUCTION EASEMENT	
HP	_	HIGH POINT	TCP	_	TEMPORARY CONSTRUCTION PERMIT	
IE.	_	INVERT ELEVATION	TCP	_	TRAFFIC CONTROL PLAN	
INV	_	INVERT	TYP	_	TYPICAL	
K	_	KELVIN	VPI	-	VERTICAL POINT OF INTERSECTION	

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WATT/WEST

_

KELVIN LENGTH

L

-0275

BOARDWALK CONSTRUCTION NOTES:

- HAVE BOARDWALK GUARD.
- 2. SEE DETAIL ON E3 FOR MAXIMUM APPROACH GRADES.

NO. DATE

- 3. REPAIR DAMAGED COATINGS IN ACCORDANCE WITH SECTION 716.

4. TIMBER:

A. ALL TIMBER SHALL BE PRESSURE TREATED.

B. FRAMING SCREWS, LAG SCREWS, OR BOLTS SHALL BE SQUARE, STAR, OR HEX HEAD AND SHALL BE STAINLESS STEEL, HOT-DIP GALVANIZED, TREATED FOR PERMANENT EXTERIOR USE AND CONTACT WITH PRESSURE TREATED WOOD, OR APPROVED EQUAL. WHERE USED WITH A WASHER OR IN CONTACT WITH OTHER METAL, THE PRODUCTS SHALL BE COMPATIBLE AND NOT CORRODE DUE TO CONTACT. ALL NAILS SHALL BE HOT-DIPPED GALVANIZED AS SPECIFIED.

C. INSTALL FASTENERS A MINIMUM OF 1" FROM THE END OF A MEMBER TO PREVENT SPLITTING WOOD. SPLIT WOOD SHALL BE REPLACED. PRE-DRILL AS REQUIRED.

5. EASEMENT BOUNDARIES.

6. NO IMPROVEMENTS MAY OCCUR IN THE PROJECT EXCLUSION AREAS.

REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
	ALASKA	0002280/Z637720000	2021	A3	A6

1. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH ALL AFFECTED UTILITY SERVICE COMPANIES TO MAINTAIN SERVICES DURING CONSTRUCTION.

2. STEEL PRODUCTS SHALL BE HOT-DIPPED GALVANIZED IN ACCORDANCE WITH SECTION 716. FOR WOOD FASTENERS, SEE NOTE 4.

ALL WORK SHALL BE CONFINED TO WITHIN THE CORPS OF ENGINEERS PERMIT BOUNDARY AND WITHIN THE RIGHT-OF-WAY OR TEMPORARY CONSTRUCTION PERMIT/

THE DESIGN IS BASED ON THE BEST AVAILABLE TOPOGRAPHIC DATA. DUE TO SEASONAL FROST OR PERMAFROST CHANGES, THE EXISTING GROUND SURFACE MAY HAVE CHANGED. IF PROFILE CHANGES ARE REQUIRED, THEY SHALL BE APPROVED BY THE ENGINEER. THE FOLLOWING CRITERIA SHALL BE MET FOR PROFILE CHANGES:

1. THE GRADE OF TRAVEL ON THE MAIN BOARDWALK SHALL NOT EXCEED 8.33% GRADE. GRADES OVER 5% SHALL



ABBREVIATIONS & NOTES



REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
	ALASKA	0002280/Z637720000	2021	A4	A6

		*				
ANGLE POINTS						
STREET STA		ANG				
NTW	14+02.2	7.2				
NTW	12+99.9	80.1				
NTW	12+38.0	88.7				
NTW	10+57.4	89.3				
TS	12+26.5	89.1				
TS	12+10.1	88.8				



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NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0002280/Z637720000	2021	A6	A6

LINE TABLE			LIN		
LINE NUMBER	ALIGNMENT	LENGTH	DIRECTION	LINE NUMBER	ALIGNMENT
L1	"4E"	286.96	S72* 51' 43.89"E	L33	"RS"
L2	"4W"	95.00	S76°08'26.56"E	L34	"RS"
L3	"BL"	60.59	N44° 32' 29.12"W	L35	"RS"
L4	"BL"	442.07	N32 57 44.01"W	L36	"RS2"
L5	"BL"	304.53	N7* 20' 45.06"W	L37	"RS2"
L6	"BL"	150.30	N4* 24' 05.46"E	L38	"RS2"
L67	"BS"	72.19	N8* 17' 14.85"E	L39	"RS2"
L66	"BS"	133.31	N4* 17' 06.46"E	L40	"RS2"
L7	"BS"	411.75	N4* 17' 06.46"E	L41	"RS2"
L8	"BS"	27.49	N49 17 06.46"E	L47	"SS"
L10	"BS"	118.06	N40° 42' 55.50"W	L46	"SS"
L11	"BS"	53.43	N18 28 47.21 W	L45	"SS"
L13	"CA"	253.84	N86° 43' 05.82"E	L44	"SS"
L12	"CA"	35.78	N86° 43' 05.82"E	L43	"SS"
L14	"RS"	90.52	N8° 26' 53.90"E	L42	"SS"
L15	"RS"	125.31	N2* 54' 56.90"E	L48	"SS2"
L16	"RS"	60.14	N0° 53' 55.80"W	L49	"SS2"
L17	"RS"	12.43	N7° 34' 48.92"E	L50	"SS2"
L18	"RS"	96.18	N15 04 07.32"E	L51	"SS2"
L19	"RS"	38.62	N41° 14' 45.72"E	L52	"SS2"
L20	"RS"	253.15	N11° 59' 38.90"E	L53	"SS2"
L21	"RS"	60.76	N9° 07' 55.00"E	L54	"SS2"
L22	"RS"	78.11	N20° 56' 59.35"E	L55	"SS2"
L23	"RS"	179.34	N26 40' 15.06"E	L56	"SS2"
L24	"RS"	52.66	N22 50' 12.03"E	L57	"TS"
L25	"RS"	57.98	N20 38' 50.19"E	L58	"TS"
L26	"RS"	56.36	N13 46' 59.13"E	L59	"TS"
L27	"RS"	125.49	N22 29' 34.43"E	L60	"TS"
L28	"RS"	70.03	N22* 28' 11.19"E	L61	"тw"
L29	"RS"	110.74	N20 51'09.40"E	L62	"TW"
L30	"RS"	27.21	N39° 25' 19.17"E	L63	"TW"
L31	"RS"	58.64	N48° 36' 36.82"E	L64	"⊤w"
L32	"RS"	52.30	N15' 01' 01.24"E	L65	"тw"

LINE TABLE							
INE NUMBER	ALIGNMENT	LENGTH	DIRECTION				
L33	"RS"	191.93	N58° 10' 58.19"E				
L34	"RS"	61.91	N10° 44' 39.82"E				
L35	"RS"	4.76	N3° 18' 20.07"W				
L36	"RS2"	29.68	N40° 33' 39.34"E				
L37	"RS2"	59.89	N32 55' 38.63"E				
L38	"RS2"	88.76	N29 55' 21.36"E				
L39	"RS2"	52.01	N28 35' 09.58"E				
L40	"RS2"	17.15	N12 23 45.79 E				
L41	"RS2"	16.06	N9* 53' 13.02"E				
L47	"SS"	109.11	N3° 22' 34.13"W				
L46	"SS"	126.04	N0° 00' 37.26"E				
L45	"SS"	132.67	N11° 55' 56.09"W				
L44	"SS"	160.43	N24 39' 52.09"W				
L43	"SS"	178.45	N17 07 03.09"W				
L42	"SS"	467.10	N16 52 09.39"W				
L48	"SS2"	84.20	N86° 15' 52.89"E				
L49	"SS2"	32.36	N3° 44' 07.11"W				
L50	"SS2"	121.11	N16 32' 33.01"W				
L51	"SS2"	34.32	N13 09' 11.98"W				
L52	"SS2"	26.38	N55' 38' 09.00"W				
L53	"SS2"	73.84	N14 02 10.87"W				
L54	"SS2"	80.90	N4• 45' 58.89"W				
L55	"SS2"	143.74	N10° 53' 20.21"W				
L56	"SS2"	143.72	N12* 22' 14.39"W				
L57	"TS"	83.02	N17' 38' 09.94"E				
L58	"TS"	117.01	N17° 37' 40.15"E				
L59	"TS"	16.43	S73* 34' 16.50"E				
L60	"TS"	100.92	N17 16' 50.21"E				
L61	"TW"	57.36	N73 36' 41.94"W				
L62	"TW"	180.63	N15° 41' 25.92"E				
L63	"TW"	61.95	S75° 34' 25.92"E				
L64	"⊤w"	102.31	N24° 20' 32.27"E				
L65	"TW"	73.29	N17* 06' 27.40"E				

ALIGNMENT START/END TABLE							
POINT NUM	BER STREET NAME	ALIGNMENT ABBREVIATION	STATION	NORTHING	EASTING		
202	4TH AVE EAST	4E BEGIN	20+00.0	4611293.73	1929690.96		
204	4TH AVE EAST	4E END	22+87.0	4611209.17	1929965.18		
200	4TH AVE WEST	4W BEGIN	10+00.0	4611339.20	1929605.95		
201	4TH AVE WEST	4W END	10+95.0	4611316.44	1929698.18		
100	BARGE LANDING ACCESS ROAD	BL BEGIN	20+00.0	4611807.86	1929324.89		
107	BARGE LANDING	BL END	35+81.0	4613255.05	1928822.36		
445	BALLOT STREET	BS BEGIN	10+00.0	4611077.59	1930649.12		
473	BALLOT STREET	BS END	18+14.0	4611850.66	1930627.14		
375		CA BEGIN	9+75.8	4611068.44	1930490.80		
379		CA END	12+41.5	4611083.64	1930755.99		
270	RIVER STREET	RS BEGIN	9+79.0	4609401.49	1929860.73		
331	RIVER STREET	RS END	28+43.6	4611070.11	1930519.93		
350	RIVER STREET	RS2 BEGIN	30+00.0	4610624.84	1930204.56		
356	RIVER STREET	RS2 END	32+63.6	4610852.83	1930332.02		
400	SELAWIK STREET	- SS BEGIN	9+50.0	4609948.62	1930924.00		
424	SELAWIK STREET	- SS END	21+23.8	4611076.71	1930635.15		
490	SKIN STREET	SS2 BEGIN	10+00.0	4610314.20	1931470.70		
521	SKIN STREET	SS2 END	17+40.6	4610950.17	1931405.97		
220	NORTH TUNDRA	TS BEGIN	10+00.0	4611246.53	1929675.95		
226	NORTH TUNDRA	TS END	13+27.4	4611538.52	1929785.12		
245	NORTH TUNDRA STREET WEST	TW BEGIN	10+00.0	4611446.83	1929739.39		
251	NORTH TUNDRA	TW END	14+75.5	4611784.75	1929856.93		

CURVE TABLE								
CURVE NUMBER	ALIGNMENT	RADIUS	DELTA	LENGTH	CHORD BEARING	CHORD LENGTH		
C1	"BL"	200.00	011.5792	40.419	N38 45' 06.56"W	40.350		
C2	"BL"	1075.00	025.6164	480.622	N20°09'14.53"W	476.629		
C3	"BL"	500.00	011.7474	102.515	N01°28'19.80"W	102.336		

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FAIRBANKS. 4	
100.	
SUITE	
ROAD.	
COLLEGE	
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NO.	9:44ar
AUTHORIZATION	Aug/20/21 09
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CERT.	tle-A6
LLC.	۲. ۲
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DEVELOPED	. ecob/wa
ANS	wob/:



SURVEY CONTROL





REVISION



	ALASKA	0002280/Z637720000	2021	B2	В3		
 ALASKA 0002280/2637720000 2021 B2 B3 NOTES: 1. PROVIDE 10" MINIMUM LAYER OF SELECTED MATERIAL, TYPE B WITH A 2" MIN. LAYER OF SELECTED MATERIAL, TYPE B, MODIFIED UNDER ALL INSULATION. 2. EXTEND INSULATION TO EMBANKMENT SLOPE WITH 6" COVER. 3. LOWER INSULATION LAYER NOT REQUIRED WHERE TOP LAYER IS LESS THAN 24" ABOVE EXISTING GROUND. 4. CLEAR TO EMBANKMENT FILL LIMIT. CLEARING IS SUBSIDIARY TO PAY ITEM 630.0002.0001. 							
GEOTEXTILE STABILIZAT	= x x = ION YPE B, TY	2' TYP 6' CHAIN LINK FENCE, TYP	2.5' - - SEED	SLOPE, T	ΤΥΡ		
TYPICAL STAGI	SEC	CTIONS PAD	PRE	OF ALL OF ALL MINA PS&E PS&E	TA WINN		

STATE PROJECT DESIGNATION YEAR NO. SHEET NO.



REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
	ALASKA	0002280/Z637720000	2021	B3	B3
			I	I	
OF-WAY AND TCE VARIES ORARY CONSTRUCTION EAS TION.	S. SEE RIC EMENT PA	HT-OF-WAY MAP, RCEL PLANS, FOR FINAL			
IDE BOARDWALK GUARD WH E EXISTING GRADE, AND/O ENT, INCLUDING ADA LAND	HERE FINIS R WHERE INGS.	H GRADE EXCEEDS 30" GRADE EXCEEDS 5.0			
DETAILS FOR ALL FASTENE	RS AND C	ONNECTIONS.			
IDE (12) DECK PLANKS W	ITH 1/4"	GAP.			
RAIL BUTT JOINTS SHALL	BE STAGG	ERED.			
JOINTS SHALL BE OFFSE CHES.	I FROM CI	INTER OF GUARD POST BY			
IDE ADDITIONAL LAYERS OF IDE A LEVEL BOARDWALK.	(2) 3"X1	2"X30" AS REQUIRED TO			
DWALK CROSS-SLOPE SHA	LL BE 0%	-1.5% MAX.			
IDE ADA COMPLIANT GRASF DWALK EXCEEDING 5% GRA 506.2001.0000. SEE E2 F	PABLE HAN ADE. HAND OR APPRO	DRAIL ON ANY MAINLINE RAIL IS SUBSIDIARY TO PAY MACHES.			
RMINATION FOR WHERE TO DWALKS SHALL BE MEASUF ADJACENT DECK BEAMS.	BEGIN AN RED AS TH	D END ELEVATED IE AVERAGE HEIGHT BETWEEI	N		
BEAMS SHALL BE 5'-4"	ON CENTE	R MAXIMUM.			
				<i>vii</i> me.	
			SATE	OF AL	Rt
			RE	IMILE C&E	all I
TYPICAL	SE(wn		، ۲۰ ۱	ROFESSION	III.

BOARDWALK

NO.	DATE	

ESTIMATE OF QUANTITIES					
ITEM NO.	PAY ITEM	PAY UNIT	TOTAL QUANTITY		
202.0001.0000	REMOVAL OF STRUCTURES AND OBSTRUCTIONS	LUMP SUM	ALL REQ'D		
203.0003.0000	UNCLASSIFIED EXCAVATION	CUBIC YARD	1,300		
203.0005.0000	BORROW	CUBIC YARD	11,300		
506.0003.0000	TREATED TIMBER	МВМ	2		
506.2001.0000	BOARDWALK, AT-GRADE	LINEAR FOOT	4,250		
506.2002.0000	BOARDWALK, ELEVATED	LINEAR FOOT	1,800		
506.2003.0000	BOARDWALK, APPROACH	EACH	50		
511.0001.0001	MECHANICALLY STABILIZED EARTH (MSE) WALL	LUMP SUM	ALL REQ'D		
603.0021.0024	CORRUGATED POLYETHYLENE PIPE 24 INCH	LINEAR FOOT	204		
607.0003.0000	CHAIN LINK FENCE	LINEAR FOOT	790		
607.0005.0000	DRIVE GATE	EACH	1		
615.0001.0000	STANDARD SIGN	SQUARE FEET	38		
618.0001.0000	SEEDING	ACRE	1		
630.0002.0001	GEOTEXTILE, STABILIZATION, CLASS 1	SQUARE YARD	9,600		
635.0001.0000	INSULATION BOARD	МВМ	484		
639.0001.0000	DRIVEWAY	EACH	7		
640.0001.0000	MOBILIZATION AND DEMOBILIZATION	LUMP SUM	ALL REQ'D		
640.0004.0000	WORKER MEALS AND LODGING, OR PER DIEM	LUMP SUM	ALL REQ'D		
641.0001.0000	EROSION, SEDIMENT AND POLLUTION CONTROLY ADMINISTRAION	LUMP SUM	ALL REQ'D		
641.0003.0000	TEMPORARY EROSION, SEDIMENT AND POLLUTION CONTROL	LUMP SUM	ALL REQ'D		
641.0004.0000	TEMPORARY EROSION, SEDIMENT AND POLLUTION CONTROL ADDITIVES	CONTINGENT SUM	ALL REQ'D		
641.0006.0000	WITHHOLDING	CONTINGENT SUM	ALL REQ'D		
641.0007.0000	SWPPP MANAGER	LUMP SUM	ALL REQ'D		
642.0001.0000	CONSTRUCTION SURVEYING	LUMP SUM	ALL REQ'D		
642.0003.0000	THREE PERSON SURVEY CREW	HOUR	30		
643.0002.0000	TRAFFIC MAINTENANCE	LUMP SUM	ALL REQ'D		
643.0025.0000	TRAFFIC CONTROL	CONTINGENT SUM	ALL REQ'D		
644.0001.0000	FIELD OFFICE	LUMP SUM	ALL REQ'D		
644.0006.0000	VEHICLE	LUMP SUM	ALL REQ'D		
644.0015.0000	NUCLEAR TESTING EQUIPMENT STORAGE SHED	EACH	1		
644.0016.0000	STORAGE CONTAINER	EACH	1		
645.0001.0000	TRAINING PROGRAM, 1 TRAINEE/APPRENTICES	LABOR HOUR	500		
646.0001.0000	CPM SCHEDULING	LUMP SUM	ALL REQ'D		
660.0003.0000	HIGHWAY LIGHTING SYSTEM COMPLETE, SITE ILLUMINATION	LUMP SUM	ALL REQ'D		
680.2000.0000	TELECOMMUNICATIONS UTILITY RELOCATION GCI	LUMP SUM	ALL REQ'D		
680,2000.0000	TELECOMMUNICATIONS UTILITY RELOCATION OTZ	LUMP SUM	ALL REQ'D		
687.2000.0000	POWER UTILITY RELOCATIONS AVEC	LUMP SUM	ALL REQ'D		

REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
	ALASKA	0002280/Z637720000	2021	C1	C1

ESTIMATE OF QUANTITIES



NO.	DATE	

ALIGNMENT	STATION START	STATION END	LENGTH (FT)	NOTES
4E	20+35	20+54	19	GRADE GREATER THAN 5%
4E	20+54	21+42	88	
4E	21+92	22+20	28	
4W	10+12	10+39	27	
BS	10+50	12+91	241	
BS	15+01	15+26	25	
BS	17+44	17+46	2	GRADE GREATER THAN 5%
BS	17+46	18+05	59	
СА	9+62	9+91	29	GRADE GREATER THAN 5%
СА	9+91	10+63	72	
CA	11+87	12+30	43	
NTW	10+00	10+13	13	
NTW	10+13	10+22	9	GRADE GREATER THAN 5%
NTW	10+44	13+52	308	
NTW	13+96	14+00	4	GRADE GREATER THAN 5%
NTW	14+00	14+72	72	
RS	9+87	10+16	29	GRADE GREATER THAN 5%
RS	10+16	13+97	381	
RS	14+15	22+70	855	
RS	23+74	23+78	4	GRADE GREATER THAN 5%
RS	23+78	24+86	108	
RS	25+34	26+06	72	
RS	27+59	27+62	3	
RS	27+62	27+71	9	GRADE GREATER THAN 5%
RS	27+71	28+44	73	
RS2	30+00	30+47	47	
SS	9+59	9+79	20	GRADE GREATER THAN 5%
SS	9+79	14+75	496	
SS	14+91	14+95	4	
SS	14+95	15+22	27	GRADE GREATER THAN 5%
SS	15+22	18+57	335	
SS	20+06	20+85	78	
SS2	10+66	11+52	86	
SS2	12+25	12+38	13	
SS2	12+53	14+22	169	
SS2	14+71	17+37	266	

506.2002	2.0000 - 1	BOARDWAL	K, ELEVATED
ALIGNMENT	STATION START	STATION END	LENGTH (FT)
4E	20+00	20+35	35
4E	21+42	21+92	50
4W	10+39	10+95	56
BS	10+00	10+50	50
BS	12+91	15+01	211
BS	15+26	17+44	218
CA	10+63	11+87	124
NTW	10+22	10+44	22
NTW	13+52	13+96	44
RS	13+97	14+15	18
RS	22+70	23+74	105
RS	24+86	25+34	48
RS	26+06	27+59	153
RS2	30+47	30+87	40
RS2	32+10	32+64	54
SS	14+75	14+91	16
SS	18+57	20+06	149
SS	20+85	21+24	39
SS2	10+00	10+66	66
SS2	11+52	12+25	73
SS2	14+22	14+71	49
TS	10+01	11+48	147
	TOTAL		1,765

REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
	ALASKA	0002280/Z637720000	2021	D1	D2



SUMMARY TABLES

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0002280/Z637720000	2021	D2	D2

	506.	2003.00	00 - BOA	RDWALK	APPROA	АСН	
SHEET	STATION	OFFSET	∆ (DEGREES)	LANDING (FT)	LENGTH (FT)	WIDTH (FT)	WIDTH ENDING (FT)
F4	"4E" 20+63	RT	21	6	8	5.7	-
F4	"4E" 20+77	RT	90	6	8	5.9	-
F5	"TS" 12+12	RT	83	6	2	7.7	-
F6	"NTW" 10+57	LT	91	6	35	11.5	-
F6	"NTW" 11+48	RT	90	6	0	7.8	-
F6	"NTW" 12+38	LT	89	6	15	11.5	-
F6	"NTW" 14+06	RT	63	6	7	5.7	-
F6	"NTW" 14+69	LT	87	6	7	6.7	-
F6	"NTW" 14+69	RT	87	6	19	6.7	-
F7	"RS" 10+30	RT	68	6	17	11.5	-
F7	"RS" 10+86	RT	90	6	4	5.7	-
F7	"RS" 12+47	RT	90	6	8	5.7	-
F7	"RS" 13+23	RT	84	6	18	5.7	-
F7	"RS" 13+92	RT	75	6	20	5.7	6.7
F7	"RS" 14+64	RT	89	6	5	5.7	7.9
F8	"RS" 17+70	RT	90	6	5	5.7	7.6
F8	"RS" 19+90	RT	90	6	12	5.7	-
F8	"RS" 21+19	RT	81	6	10	5.6	-
F8	"RS" 21+82	RT	86	6	12	5.7	7.4
F9	"RS" 22+57	RT	78	7	10	5.7	-
F9	"RS" 25+85	LT	39	6	10	9.6	-
F9	"RS" 27+59	RT	40	6	24	5.7	-
F11	"CA" 10+80	RT	90	6	22	7.9	6.4
F11	"CA" 10+99	RT	90	6	6	5.7	5.8
F11	"CA" 12+05	LT	90	6	11	5.7	5.8
F11	"CA" 12+05	RT	90	6	21	5.7	-
F12	"SS" 10+15	LT	13	6	20	11.5	9.6
F12	"SS" 10+39	RT	74	6	4	8.0	
F12	"SS" 12+91	LT	58	6	20	11.5	7.6
F12	"SS" 12+91	RT	77	6	4	11.5	9.6
F12	"SS" 12+92	LT	77	6	22	11.5	6.7
F12	"SS" 14+15	LT	77	6	15	5.7	-
F12	"SS"14+44	LT	90	6	15	5.7	-
F12	"SS" 15+32	RT	90	6	13	5.7	
F13	"SS" 15+92	RT	90	6	14	5.7	-
F13	"SS" 17+21	RT	21	6	7	5.7	_
F13	"SS" 17+29	RT	55	6	5	5.7	-
F13	"SS" 18+15	RT	66	6	15	5.7	7.7
F13	"SS" 19+15	RT	87	6	0	21.7	7.6
F13	"SS" 19+79	LT	85	6	32	5.7	_
F14	"BS" 10+94	RT	89	6	3	7.7	7.6
F14	"BS" 13+17	RT	90	6	20	5.7	7.7
F14	"BS" 13+43	LT	90	6	20	5.7	_
F14	"BS" 12+41	RT	88	6	0	2.7	_
F14	"BS" 15+15	LT	90	14	36	5.7	_
F14	"BS" 15+57	LT	90	14	30	5.7	-
F14	"BS" 15+57	RT	90	6	30	5.7	-
F15	"BS" 16+97	RT	21	6	35	5.7	-
F15	"BS" 17+02	RT	70	6	10	5.8	_
F16	"SS2" 10+84	RT	90	6	20	11.5	7.7
TOTAL	50						

ID ALIGNMENT STATION LENGTH (LF) INLET STA/OFF INV IN OUTLT OUTLT STA/OFF INV NOTES P1 BL 21+87 37 22+05/25'RT 5.9 21+69/28'RT 5.9 0.0% P2 BL 23+15 55 23+25/25'LT 7.3 23+04/25'RT 2.0 0.6% Include Morker P3 BL 24+38 49 24+63/25'LT 9.7 24+14/28'LT 7.1 5.2% P4 BL 29+11 63 28+97/28'LT 9.7 24+14/28'LT 7.1 5.2% TOTAL: 204 </th <th></th> <th></th> <th>603.0</th> <th>021.002</th> <th>24 — CC</th> <th>RRUGA</th> <th>TED PO</th> <th>LYETH</th> <th>YLENE F</th> <th>PIPE 24</th> <th>INCH</th> <th></th>			603.0	021.002	24 — CC	RRUGA	TED PO	LYETH	YLENE F	PIPE 24	INCH	
P1 BL 21+87 37 22+05/25'RT 5.9 21+69/25'RT 5.9 0.0% P2 BL 23+15 55 23+25/25'LT 7.3 23+04/25'RT 2.0 0.6% Include Morker Posts P3 BL 24+38 49 24+63/29'LT 9.7 24+14/28'LT 7.1 5.2% P4 BL 29+11 63 28+97/28'LT 8.4 29+25/28'RT 6.8 2.5% Morker Posts TOTAL: 204 24+63/20'LT 8.4 29+25/28'RT 6.8 2.5% Morker Posts F2 ToTAL: 204 10' 6' 13 21' 7 F2 "BL"23+87 10' LT 10' 6' 13 21' 7 F2 "BL"23+81 10' LT 10' 6' 31 12' 0 NEW DRIVEWAY F2 "BL"23+81 10' RT 20' 16' 20 24' 0 NEW DRIVEWAY F2 "BL"		ID	ALIGNME	NT STAT	ION LENGTH	(LF) INLE	T STA/OFF	INV IN	OUTLET STA/OFF	INV	SLOPE	NOTES
P2 BL 23+15 55 23+25/25'LT 7.3 23+04/25'RT 7.0 0.6% Include Morker Posts P3 BL 24+38 49 24+63/29'LT 9.7 24+14/28'LT 7.1 5.2% P4 BL 29+11 6.3 28+97/28'LT 8.4 29+25/28'RT 6.8 2.5% Include Morker Posts TOTAL: 204 10 6.1 3.4 29+25/28'RT 6.8 2.5% Morker Posts SHEET STATION OFTSET RADIUS LANDING LENGTH WIDTH SKEW REMARKS F2 '6L'20+38 10'LT 10' 6' 13 21' 7 F2 '6L'23+187 10'RT 20' 16' 20 24' 0 NEW DRIVEWAY F2 '6L'24+87 10'RT 10' 6' 31 12' 0 F2 '6L'24+81 10'RT 10' 6' 31 12' <td></td> <td>P1</td> <td>BL</td> <td>21+</td> <td>87 37</td> <td>22+</td> <td>-05/ 25'RT</td> <td>5.9</td> <td>21+69/ 25'</td> <td>RT 5.9</td> <td>0.0%</td> <td></td>		P1	BL	21+	87 37	22+	-05/ 25'RT	5.9	21+69/ 25'	RT 5.9	0.0%	
P3 BL 24+38 49 24+63/29'LT 9.7 24+14/28'LT 7.1 5.2% P4 BL 29+11 6.3 28+97/28'LT 8.4 29+25/28'RT 6.8 2.5% Include Morker Posts TOTAL: 204 0 <th0< th=""></th0<>		P2	BL	23+	15 55	23-	-25/ 25' LT	7.3	23+04/ 25'	RT 7.0	0.6%	Include Marker Posts
P4 BL 29+11 63 28+97/28'LT 8.4 29+25/28'RT 6.8 2.5% Include Marker Posts TOTAL: 204 0		Р3	BL	24+	38 49	24-	-63/ 29' LT	9.7	24+14/28'L	_T 7.1	5.2%	
TOTAL: 204 63.9.0001.0000 DRIVEWAY SHEET STATION OFFSET RADIUS LANDING LENGTH WIDTH SKEW REMARKS F2 "BL" 20+38 10' LT 10' 6' 13 21' 7 F2 "BL" 21+87 10' RT 20' 16' 20 24' 0 NEW DRIVEWAY F2 "BL" 23+05 10' LT 10' 6' 31 12' 0 F2 "BL" 23+05 10' LT 10' 6' 31 12' 0 F2 "BL" 23+05 10' LT 10' 6' 31 12' 0 F2 "BL" 23+05 10' LT 10' 6' 24 17' 0 F2 "BL" 24+40 10' LT 10' 6' 32 17' 0 F2 "BL" 27+05 10' LT 10' 6' 32 17' 0 F2 "BL" 27+05 10' LT 10'		P4	BL	29+	·11 63	28-	-97/ 28' LT	8.4	29+25/ 28'	RT 6.8	2.5%	Include Marker Posts
639.0001.0000 - DRIVEWAY SHEET STATION OFFSET RADIUS LANDING LENGTH WIDTH SKEW REMARKS F2 "BL" 20+38 10' LT 10' 6' 13 21' 7 F2 "BL" 21+87 10' RT 20' 16' 20 24' 0 NEW DRIVEWAY F2 "BL" 23+05 10' LT 10' 6' 31 12' 0 1 F2 "BL" 23+05 10' LT 10' 6' 18 10' 1 1 F2 "BL" 24+40 10' LT 10' 6' 18 10' 1 1 1 F2 "BL" 24+40 10' LT 10' 6' 19 19' 0 1 <td< td=""><td></td><td></td><td>TOTAL:</td><td></td><td>20-</td><td>4</td><td></td><td></td><td></td><td></td><td></td><td></td></td<>			TOTAL:		20-	4						
639.0001.0000 - DRIVEWAY SHEET STATION OFFSET RADIUS LANDING LENGTH WIDTH SKEW REMARKS F2 "6L" 20+38 10' LT 10' 6' 13 21' 7 F2 "8L" 21+87 10' RT 20' 16' 20 24' 0 NEW DRIVEWAY F2 "8L" 23+05 10' LT 10' 6' 31 12' 0 F2 "8L" 23+05 10' LT 10' 6' 31 12' 0 F2 "BL" 23+18 10' RT 10' 6' 18 10' 1 F2 "BL" 24+40 10' LT 10' 6' 19 19' 0 F2 "BL" 27+05 10' RT 10' 6' 32 17 0 F2 "BL" 27+05 10' LT 10' 6' 32 17 0 F2 "BL" 27+05 10' LT 10' 6' 32 17 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>												
SHEET STATION OFFSET RADIUS LANDING LENGTH WIDTH SKEW REMARKS F2 "BL" 20+38 10' LT 10' 6' 13 21' 7 F2 "BL" 21+87 10' RT 20' 16' 20 24' 0 NEW DRIVEWAY F2 "BL" 23+05 10' LT 10' 6' 31 12' 0 F2 "BL" 23+05 10' LT 10' 6' 31 12' 0 F2 "BL" 23+18 10' RT 10' 6' 18 10' 1					639.0	001.00	00 - 0	ORIVEW	/AY			
F2 ''BL' 20+38 10' LT 10' 6' 13 21' 7 F2 ''BL' 21+87 10' RT 20' 16' 20 24' 0 NEW DRIVEWAY F2 ''BL' 23+05 10' LT 10' 6' 31 12' 0 F2 ''BL' 23+18 10' RT 10' 6' 18 10' 1 F2 ''BL' 23+18 10' RT 10' 6' 18 10' 1 F2 ''BL' 24+40 10' LT 10' 6' 24 17' 0 F2 ''BL' 22+52 10' RT 10' 6' 19 19' 0 F2 ''BL' 27+05 10' LT 10' 6' 32 17' 0 F2 ''BL' 27+05 10' LT 10' 6' 32 17' 0 TOTAL 7 607.0003.0000 CHAIN LINK FENCE NOTES STORAGE SHEET <td< td=""><td></td><td>SHE</td><td>ΈT</td><td>STATION</td><td>OFFSET</td><td>RADIUS</td><td>LANDING</td><td>LENGTH</td><td>WIDTH</td><td>SKEW</td><td>REMA</td><td>RKS</td></td<>		SHE	ΈT	STATION	OFFSET	RADIUS	LANDING	LENGTH	WIDTH	SKEW	REMA	RKS
F2 "BL" 21+87 10' RT 20' 16' 20 24' 0 NEW DRIVEWAY F2 "BL" 23+05 10' LT 10' 6' 31 12' 0 1 F2 "BL" 23+18 10' RT 10' 6' 18 10' 1 1 F2 "BL" 23+18 10' RT 10' 6' 18 10' 1 1 F2 "BL" 23+18 10' RT 10' 6' 18 10' 1 1 F2 "BL" 23+18 10' RT 10' C 6' 18 10' 1 1 F2 "BL" 23+52 10' RT 10' C 6' 32 17 0 1 F2 "BL" 27+05 10' LT 10' C 6' 32 17 0 1 1 TOTAL 7 0 10' LT 10' C 6' 32 17 0 1 1 SHEET FROM STATION OFFSET TO STATION OFFSET LENGTH (LF) NOTES STORAGE YARD <t< td=""><td></td><td>F</td><td>2</td><td>"BL" 20+38</td><td>10' LT</td><td>10'</td><td>6'</td><td>13</td><td>21'</td><td>7</td><td></td><td></td></t<>		F	2	"BL" 20+38	10' LT	10'	6'	13	21'	7		
F2 "BL" 23+05 10' LT 10' 6' 31 12' 0 F2 "BL" 23+18 10' RT 10' 6' 18 10' 1 F2 "BL" 23+18 10' RT 10' 6' 18 10' 1 F2 "BL" 24+40 10' LT 10' 6' 24 17' 0 F2 "BL" 25+52 10' RT 10' 6' 19 19' 0 F2 "BL" 27+05 10' LT 10' 6' 32 17 0 F2 "BL" 27+05 10' LT 10' 6' 32 17 0 F2 "BL" 27+05 10' LT 10' 6' 32 17 0 TOTAL 7 SHEET FROM STATION OFFSET TO STATION OFFSET LENGTH (LF) NOTES G1 'BL' STA 21+16 41.9'RT 'BL' STA 22+62 41.5'RT 786 STORAGE		F:	2	"BL" 21+87	10' RT	20'	16'	20	24'	0	NEW DRI	VEWAY
F2 "BL" 23+18 10' RT 10' 6' 18 10' 1 F2 "BL" 24+40 10' LT 10' 6' 24 17' 0 F2 "BL" 25+52 10' RT 10' 6' 19 19' 0 F2 "BL" 25+52 10' RT 10' 6' 32 17 0 F2 "BL" 27+05 10' LT 10' 6' 32 17 0 TOTAL 7 607.0003.0000 - CHAIN LINK FENCE		F:	2	"BL" 23+05	10' LT	10'	6'	31	12'	0		
F2 "BL" 24+40 10' LT 10' 6' 24 17' 0 F2 "BL" 25+52 10' RT 10' 6' 19 19' 0 F2 "BL" 27+05 10' LT 10' 6' 32 17' 0 F2 "BL" 27+05 10' LT 10' 6' 32 17' 0 F2 "BL" 27+05 10' LT 10' 6' 32 17' 0 TOTAL 7 0 0 0 0 0 607.0003.0000 CHAIN LINK FENCE 0 0 0 SHEET FROM STATION OFFSET TO STATION OFFSET LENGTH (LF) NOTES G1 'BL' STA 21+16 41.9'RT 'BL' STA 22+62 41.5'RT 786 STORAGE YARD TOTAL: 786		F2	2	"BL" 23+18	10' RT	10'	6'	18	10'	1		
F2 "BL" 25+52 10' RT 10' 6' 19 19' 0 F2 "BL" 27+05 10' LT 10' 6' 32 17 0 TOTAL 7 0 0 0 0 0 607.0003.0000 CHAIN LINK FENCE 0 0 0 SHEET FROM STATION OFFSET TO STATION OFFSET LENGTH (LF) NOTES G1 'BL' STA 21+16 41.9'RT 'BL' STA 22+62 41.5'RT 786 STORAGE YARD		F	2	"BL" 24+40	10' LT	10'	6'	24	17'	0		
F2 "BL" 27+05 10' LT 10' 6' 32 17 0 TOTAL 7 <t< td=""><td></td><td>F</td><td>2</td><td>"BL" 25+52</td><td>10' RT</td><td>10'</td><td>6'</td><td>19</td><td>19'</td><td>0</td><td></td><td></td></t<>		F	2	"BL" 25+52	10' RT	10'	6'	19	19'	0		
TOTAL 7 607.0003.0000 - CHAIN LINK FENCE SHEET FROM STATION OFFSET TO STATION OFFSET LENGTH (LF) NOTES G1 'BL' STA 21+16 41.9'RT 'BL' STA 22+62 41.5'RT 786		F	2	"BL" 27+05	10' LT	10'	6'	32	17	0		
607.0003.0000 – CHAIN LINK FENCE SHEET FROM STATION OFFSET TO STATION OFFSET LENGTH (LF) NOTES G1 'BL' STA 21+16 41.9'RT 'BL' STA 22+62 41.5'RT 786 STORAGE TOTAL: 786		тот	AL	7								
607.0003.0000 – CHAIN LINK FENCE SHEET FROM STATION OFFSET TO STATION OFFSET LENGTH (LF) NOTES G1 'BL' STA 21+16 41.9'RT 'BL' STA 22+62 41.5'RT 786 STORAGE TOTAL: 786												
SHEET FROM STATION OFFSET TO STATION OFFSET LENGTH (LF) NOTES G1 'BL' STA 21+16 41.9'RT 'BL' STA 22+62 41.5'RT 786 STORAGE YARD TOTAL:			607.00	03.000	<u> </u>	ain linf	< FENC	E				
G1 'BL' STA 21+16 41.9'RT 'BL' STA 22+62 41.5'RT 786 STORAGE YARD TOTAL: 786	SH	HEET FR	COM STATION	OFFSET	TO STATION	OFFSET	LENGTH (L	_F) N(DTES			
TOTAL: 786		G1 'B	L' STA 21+16	41.9'RT	'BL' STA 22+6	2 41.5'RT	786	ST(Y	DRAGE ARD			
						TOTAL:	786					

630.0002.0001 - GEOTEXTILE, STABILIZATION, CLASS 1							
	AREA (SY)	NOTES					
BARGE LANDING ACCESS ROAD	4,654						
STAGING PAD	4,873						
TOTAL:	9,527						

635.0001.0000 - INSULATION BOARD								
AREA (SF) DEPTH (IN) NUMBER (MBM) NOTES								
BARGE LANDING ACCESS ROAD	46413	4	246	EXTENDS INTO GRAVEL PAD BEYOND ROAD EDGE				
STAGING PAD	41040	4	183					
BURIED TIMBERS	2800	2	11					
10% CONTINGENCY	_	_	44					
	TOTAL:		484					



SUMMARY TABLES



REVISION	STATE	PROJECT	DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
	ALASKA	0002280	/Z637720000	2021	E1	E11
- DRIVEWAY CROSS SLOPE T ROADWAY CROSS SLOPE A OF ROAD AND EXISTING DI CROSS SLOPE AT MATCH WARP CROSS SLOPE AS N ALONG LENGTH OF DRIVEW	TO MATCH AT EDGE RIVEWAY POINT. IEEDED /AY.					
FINISHED GRADE MATCH EXISTING					OF ALL	-74-
DRIVEWA	AY D	ETAIL	.S	PRE	PS&F	



					CUEET	TOTAL
REVISION	STATE	PROJECT	DESIGNATION	YEAR	NO.	SHEETS
	ALASKA	0002280	/Z637720000	2021	E2	E11
CENTERLINE	ALIGNMEN	т				
++ ++ ++ ++ ++ ++ ++ ++ ++ ++ ++ ++ ++	ET, TYP. E9	LEN	CURB, TYP			
ACH DETAIL						
			Г			
BOARDWAL /INTERSEC	.K A TION	PPRO DET	ACH AILS	PRE	OF ALL	TA WINN



REVISION	STATE	PROJECT	DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
	ALASKA	0002280	/Z637720000	2021	E3	E11
DECK BEAM						-
- 3"X12"X30", TYP						i. T
				\searrow	V	$ \rightarrow $







SHEET TOTAL NO. SHEETS

E11

E4



374-0275 (207) 99709, ¥ 8 ç 5535 PLANS DEVELOPED BY: DOWL, LLC, CERT. OF AUTHORIZATION NO.: AECL848. C:\dow_pw\d0391084\63772_E_Details=E5 Fri, Aug/20/21 09:44am

ALASKA 0002280/Z637720000 2021 E5 E11	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
		ALASKA	0002280/Z637720000	2021	E5	E11



BOARDWALK DETAILS



0275

REVISION	STATE	PROJECT	DESIGNATION	YEAR	SHEET	TOTAL
	ALASKA	0002280	/Z637720000	2021	E6	E11
	- AT-GRADI	BOARDWAL	K			
RIPCUT DECK PLANK SUPPORT EDGE DECK PLANKS WITH 3"X12" ALL EDGE, TYP.	EXISTING BOARDW STYLE VARIES.		SEE TRANS DETAIL SHT E	TION 4.		
BOARDWAL	K TR TAILS	RANSI S	TION	PRE	OF ALL	The William



REVISION	STATE	PROJECT	DESIGNATION	YEAR	SHEET	TOTAL
	ALASKA	0002280	/Z637720000	2021	E7	E11
AM. SHALL OST, AND	ALASKA			2021		
					OF ALL	. X-
ELEVATED DE	BOA TAIL	ARDW. S	ALK	PRE	ROFESSION	ALL



REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
	ALASKA	0002280/Z637720000	2021	E8	E11

- LOCATE POSTS AND FOOTINGS TO AVOID CHANGES TO STAIR/RAMP. PROVIDE BEAM LENGTH AS REQ'D.



ELEVATED BOARDWALK APPROACH DETAILS



REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
	ALASKA	0002280/Z637720000	2021	E9	E11



REVISION	STATE	PROJECT	DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
	ALASKA	0002280	/Z637720000	2021	E10	E11
		6"×10", T	TP ING, TYP. ICK BEAM, TYP.			



FRAMING DETAILS



REVISION	STATE	PROJECT	DESIGNATION	YEAR	SHEET	TOTAL
	ALASKA	0002280	/Z637720000	2021	NO. E11	E11
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REVISION STATE PROJECT DESIGNATION YEAR SHEET NO. ALASKA 0002280/Z637720000 2021 F1 BOARDWALK KEY NOTES: Image: Comparison of the second se	TOTAL SHEETS
ALASKA 0002280/Z637720000 2021 F1 BOARDWALK KEY NOTES: Image: Constraint of the second	
BOARDWALK KEY NOTES: ① PUBLIC ADA APPROACH. SEE DETAIL, SHEET E2. ② RESIDENTIAL APPROACH. SEE DETAIL, SHEET E2. ③ CONNECTION TO EXISTING APPROACH. SEE DETAIL, SHEET E8. ④ TRANSITION TO EXISTING BOARDWALK OR GROUND PER DETAILS, SHEET E	F19
PROVIDE BURIED DECK BEAMS AS REQUIRED. SEE DETAILS, SHEET ES. IUTILITY CROSSING, SEE DETAILS, SHEET E11. INDICATES APPROXIMATE ELEVATED BOARDWALK EXTENTS IN PROFILE. CONTRACTOR TO CONFIRM BY FIELD MEASUREMENT TO EXISTING GROUND.	6,
SELAWIK AIRPORT	





REVISION	STATE	PROJECT	DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
	ALASKA	0002280	/Z637720000	2021	F3	F19
END BARGE LANDING ACCE STATION 35+20.00 MATCH EXISTING EDGE OF SHORE	SS ROAD					
		-	-eh-			
E LANDING 27+50 –	ACC 35-	ESS +82	ROAD	PRE	OF AL	The with









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REVISION	STATE	PROJECT	DESIGNATI	ON YEAR	SHEET NO.	TOTAL SHEETS
	ALASKA	0002280)/Z63772000	0 2021	F7	F19
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REVISION	STATE	PROJECT	DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
	ALASKA	0002280	/Z637720000	2021	F8	F19
<u>A R/W</u> <u>38'50" E ~ 57.98' N</u>	RS" 21+00				MATCH "RS" 21+80 LINE	
RIVEF 15+80 -	R ST - 21-	+80		PRE	OF ALL OF ALL MINA PS&E PS&E	The million
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	"RS" 20+85.3 6.9				s" 21+73.9 3	12
-2.0%	PEL = RS" 20+85.3	-0.		··· / VPI = "KS" 21+56.8 · · · · · · · · · · · · · · · · · · ·	$\sqrt{\frac{1}{8}P_{1}} = \frac{P_{1}RS^{*}}{21 + 73.9}$	12 10 8 6
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REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET	TOTAL
	ALASKA	0002280/Z637720000	2021	F9	F19
R/W R/W	ALASKA	0002280/Z637720000	2021	F9	F19
RIVER	 		PRE	OF AL	Million 22
21+80 -	27-	+80	4	ROFESSIONAL	12
21+80 -	27-	+80	•	ROFESSION	12
21+80 -	27-	+80	• • • • • • • • • • • • • • • • • • •	Poression	12 10
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21+80 -	27-	08+	· VPI·==. "RS". 27+62.0. EL = 3.0 VDI = "PS". 27+71.4		12 10 8 6
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AECL84 AUTHORIZATION ofile Fri. Aug/20 Ч DEVELOPED BY: DOWL, LLC, CERT. L_pw\d0391084\63772_F_PP-F11

REVISION	STATE	PROJECT	DESIGNATION	YEAR	SHEET	TOTAL
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	ALASKA	0002280	/263//20000	2021	F11	F 19
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REVISION	STATE	PROJECT DESIGNATIO	N YEAR	SHEET	TOTAL
	ALASKA	0002280/Z637720000	2021	F15	F19
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REVISION	STATE	PRO IECT DESIGNATIO		SHEET	TOTAL
	ALASKA	0002280/Z637720000	2021	NO. F17	SHEETS F19
	ALASKA	0002280/Z637720000	2021	F17	F19
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16+00 -	17.	+41	`	TOFESSION AND	



REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
	ALASKA	0002280/Z637720000	2021	F18	F19



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- <u>LIGHTING NOTES:</u>
 STREET LIGHT POLE SHALL BE 45' CLASS 4 DOUGLAS FIR WOOD UTILITY POLE. POLE SHALL BE PRESSURE TREATED WITH PENTA TO A MINIMUM OF 0.45# CF BY ASSAY PER RUS SPECIFICATIONS #1728F-700, SPECIFICATION #1728H-702, AND POLE FRAMING GUIDE W1.1G (M20). MARKINGS SHOULD INCLUDE: THE SUPPLIER'S CODE OR TRADEMARK; INDEPENDENT INSPECTION AGENCY DESIGNATION OR QUALITY ASSURANCE MARK; PLANT LOCATION AND MONTH AND YEAR OF TREATMENT; CODE LETTERS DENOTING THE POLE SPECIES, PRESERVATIVE AND REQUIRED RETENTION; AND HEIGHT AND CLASS OF THE POLE. MARKING LETTERS SHOULD BE NOT LESS THAN 5/8 INCH HIGH IF BURNBRANDED, AND NOT LESS THAN 1/8-INCH HIGH IF ON A METAL TAG.
- 2. LUMINAIRE BRACKET ARMS SHALL BE: HOT DIP GALVANIZED STEEL

 - 1 1/4-INCH DIA PIPE WITH 2' ARM LENGTH AND 13" RISE - RATED FOR 90 LBS MAXIMUM LUMINAIRE NET WEIGHT AND 5.0 EPA
- 3. POLE EMBEDMENT DEPTH SHALL FOLLOW ALASKA VILLAGE ELECTRIC CO-OP (AVEC) REQUIRED POLE SETTING DEPTH.
- 4. STREET LIGHT INSTALLATION AND GROUNDING SHALL FOLLOW AVEC INSTALLATION GUIDE M26-5.
- 5. OVERHEAD CABLE SHALL BE #2 TRIPLEX WITH 7 STRANDS AND ACSR NEUTRAL.

LUMINAIRE STANDARDS	S (DOT&PF)				
MANUFACTURER	PHILLIPS OR APPROVED EQUAL				
MODEL	LUMEC ROAD FOCUS OR APPROVED EQUAL				
WATTAGE	50				
LIGHT SOURCE	LED				
VOLTAGE	120–277 UNIVERSAL				
PE CONTROL	ANSI C136.41 7 PIN				
PE SENSOR	YES				
MOUNTING	HORIZONTAL				
HOUSING ENTRY TYPE	TOOLLESS				
FIXTURE COLOR	GRAY				
IES DISTRIBUTION TYPE	MEDIUM, TYPE III				
POWER FACTOR	> 0.9				
UL LISTED	YES				
DRIVE CURRENT	-				
CCT	4000K				
CRI	MINIMUM 70				
MINIMUM INITIAL LUMENS	5,900				

ROADWAY PERFORMAN	CE CRITERIA									
ROADWAY CHARACTERISTICS										
PAVEMENT TYPE	R2 & R3									
ROADWAY LIGHTING STANDARD	IESNA RP-20-2014									
FUNCTIONAL CLASSIFICATION	PARKING LOT									
PEDESTRIAN AREA CLASSIFICATION	N/A									
LUMINAIRE CHARACTERISTICS										
IES FILE FOR ROADWAY LIGHTING	rfs-54w16led4k-g2-r3m.ie s									
LAMP DESCRIPTION	PHILLIPS ROAD FOCUS									
LIGHT LOSS FACTOR	0.855									
IES DISTRIBUTION TYPE	MEDIUM, TYPE III									
LUMINANCE CRITERI	A									
MIN. HORIZONTAL ILLUMINANCE	≥ 0.2fc									
MAX. UNIFORMITY (MAX/MIN)	≤ 15.0:1									

ROADWAY PERFORMANCE

MIN. HORIZONTAL ILLUMINANCE	0.2 fc
MAX. UNIFORMITY (MAX/MIN)	7.8:1

	ELECTROLIER SCHEDULE											
POLE NO.	NORTHING	EASTING	LAMP WATTS	LAMP TILT	MOUNTING HEIGHT	LIGHTING DISTRIBUTION	ARM LENGTH	SHAFT LENGTH	REMARKS			
1	4612061.22	1929237.58	53 W	0	37.75'	M-C-3	2'	45.0'	SEE LIGHTING NOTES			
2	4612112.70	1929316.10	53 W	0	37.75'	M-C-3	2'	45.0'	SEE LIGHTING NOTES			
3	4612162.30	1929392.15	53 W	0	37.75'	M-C-3	2'	45.0'	SEE LIGHTING NOTES			
4	4612123.06	1929466.19	53 W	0	37.75'	M-C-3	2'	45.0'	SEE LIGHTING NOTES			
5	4612041.38	1929472.18	53 W	0	37.75'	M-C-3	2'	45.0'	SEE LIGHTING NOTES			
6	4611990.89	1929395.09	53 W	0	37.75'	M-C-3	2'	45.0'	SEE LIGHTING NOTES			
7	4611938.73	1929315.03	53 W	0	37.75'	M-C-3	2'	45.0'	SEE LIGHTING NOTES			
8	4611958.79	1929248.65	53 W	0	37.75'	M-C-3	2'	45.0'	SEE LIGHTING NOTES			
	•				•	·			·			







LIGHTING PLAN



REVISION	STATE	PROJECT DESIGNATION	YEAR	NO.	SHEETS
	ALASKA	0002280/Z637720000	2021	Н2	HЗ
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NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0002280/Z637720000	2021	НЗ	Н3

				SIGNING	SU	MMAF	RY (
								SIZE				POST			
LOC.	SHEET	STATION*	LOCA	TION	ASDS	LEGEND		нхv	AREA	DIR.	TYPE	SIZE	N0.	REMARKS	
NO.			LT.	RT.	CODE			(INCHES)	(SQ.FT.)			(INCHES)			
1	F4	"4W" 10+85		Х	R1-1	STOP SIGN		30 X 30	6.25	W	PST	2	1		
2	F4	"4E" 20+10		Х	R1-1	STOP SIGN		30 X 30	6.25	E	PST	2	1		
3	F10	"RS" 28+35		Х	R1-1	STOP SIGN		30 X 30	6.25	S	PST	2	1		
4	F12	"SS" 12+72		Х	R1-1	STOP SIGN		30 X 30	6.25	S	PST	2	1		
5	F12	"SS" 12+88	Х		R1-1	STOP SIGN		30 X 30	6.25	W	PST	2	1		
6	F12	"SS" 12+98		Х	R1-1	STOP SIGN		30 X 30	6.25	E	PST	2	1		
7	F12	"SS" 13+11	Х		R1-1	STOP SIGN		30 X 30	6.25	N	PST	2	1		
8	F13	"SS" 21+14		×	R1-1	STOP SIGN		30 X 30	6.25	S	PST	2	1		
9	F14	"BA" 10+09	Х		R1-1	STOP SIGN		30 X 30	6.25	N	PST	2	1		
10	F16	"SS2" 10+74	Х		R1-1	STOP SIGN		30 X 30	6.25	N	PST	2	1		
								SUBTOTAL	62.50						







SIGNING DETAIL AND SUMMARY

ESCP NOTES:

- 1. THIS PROJECT WILL RESULT IN GROUND DISTURBANCE OF GREATER THAN 1 ACRE, AND WILL REQUIRE A STORM WATER POLLUTION PREVENT PLAN (SWPPP). A NOTICE OF INTENT TO DISCHARGE (NOI) TO APPLY FOR COVERAGE UNDER THE ALASKA POLLUTANT DISCHARGE ELIMINATION SYSTEM (APDES)
- CONSTRUCTION GENERAL PERMIT (CGP) WILL BE REQUIRED. 2. THIS EROSION & SEDIMENT CONTROL PLAN IS GENERAL IN NATURE AND IS PROVIDED AS GUIDANCE TO THE CONTRACTOR FOR DEVELOPMENT OF THE:
 - SWPPP:
- HAZARDOUS MATERIAL CONTROL PLANE (HMCP); AND
 SPILL PREVENTION, CONTROL AND COUNTERMEASURES (SPCC) PLAN.
 EXISTING AND PROPOSED CULVERTS TO HAVE CONTROLS TO PREVENT SEDIMENT AND OTHER POLLUTANTS FROM DISCHARGING TO SELAWIK RIVER.
- CONTRACTOR SHALL UTILIZE BMPs MOST APPROPRIATE FOR CONDITIONS ONSITE. IF INSPECTION REVEALS EROSION CONTROL MEASURES ARE INSUFFICIENT, THE CONTRACTOR SHALL IMMEDIATELY IMPLEMENT CORRECTIVE ACTION, AS NECESSARY, TO CORRECT THE DEFICIENCY.
- ALL WORK SHALL TAKE PLACE WITHIN THE RIGHT-OF-WAY (ROW) AND TEMPORARY CONSTRUCTION EASEMENTS (TCE). ALL STAGING AREAS SHALL BE LOCATED WITHIN THE ROW OR PROJECT BOUNDARY.
- COLVERT INLET PROTECTION MEASURES SHALL BE LOCATED WITHIN THE ROW OR PROJECT BOUNDART.
 VEGETATION SHALL REMAIN UNDISTURBED TO THE FULLEST EXTENT PRACTICABLE.
 CULVERT INLET PROTECTION MEASURES SHALL BE INSTALLED ON EXISTING CULVERTS THAT REMAIN IN PLACE WHILE GROUND DISTURBING ACTIVITIES TAKE PLACE IN THE CONTRIBUTING DRAINAGE AREA.
 ALL DISTURBED AREAS AND EMBANKMENT SHOULDERS SHALL RECEIVE HYDRO-SEED WITH MULCH AS A
- FINAL STABILIZATION MEASURE, UNLESS OTHER TREATMENTS ARE REQUIRED BY PERMIT CONDITIONS.

9. PROPOSED STAGING AREAS WILL ALSO BE THE LOCATIONS PROPOSED FOR MATERIAL STOCKPILES, SANITATION FACILITIES, REFUSE CONTAINERS, AND HAZARDOUS MATERIAL CONTROLS / SPILL KITS.

NO. DATE

- 10. ANALYSIS FOR THIS PROJECT DID NOT IDENTIFY ANY NEARBY POTENTIAL SOURCES OF STORMWATER POLLUTANTS THAT COULD POTENTIALLY CONTAMINATE ONSITE RUNOFF. THE CONTRACTOR SHALL VERIFY THIS DETERMINATION. 11. CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH THE ADEC EXCAVATION DEWATERING
- PERMIT IF APPLICABLE
- 12. ADEQUATE AND APPROPRIATE BMP'S SHALL BE USED ALONG RIVER STREET WHERE CONSTRUCTION IS ADJACENT TO THE RIVER.
- 13. EQUIPMENT USED TO PERFORM BOARDWALK WORK SHALL OPERATE FROM A BOARDWALK SURFACE. TUNDRA MATS SHALL BE USED FOR EQUIPMENT WORKING OFF A BOARDWALK.
- 14. THERE SHALL BE NO GROUND DISTURBANCE FOR BOARDWALK WORK EXCEPT AS OCCURS
- IN THE REMOVAL OF EXISTING BOARDWALK. 15. THE DRIVABLE PROJECT IS ALL GRAVEL ROADWAYS; NO STABILIZED CONSTRUCTION EXIT IS NECESSARY. THE BARGE LANDING SHALL BE GRADED AND CAPPED WITH 4 INCHES OF BORROW UPON PROJECT COMPLETION.
- 16. A TEMPORARY WETLAND IMPACT PERMIT STRIP 25 FEET BEYOND THE TOE OF
- EMBANKMENT IS APPROVED AS A BMP. 17. THE SPUD FARM MATERIAL SOURCE IS 12 MILES NORTH OF SELAWIK. USE IS PERMITTED THROUGH NANA REGIONAL CORPORATION.







REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
	ALASKA	0002280/Z637720000	2021	T1	T1

 \langle 1.angle maintain one way traffic along barge landing access road during business hours which are from 8am–5pm. (typ)

 \langle 7.angle work adjacent to the school (north tundra street & tundra street) to be completed when school is not in session.

CURRENT TRAFFIC WITHIN THE CITY OF SELAWIK IS GENERALLY LIMITED TO ALL-TERRAIN VEHICLES (ATV'S) YEAR ROUND AND

2. THESE TRAFFIC CONTROL PLANS (TCPs) ARE GENERAL IN NATURE. CONTRACTOR TO PROVIDE DETAILED TRAFFIC CONTROL PLANS TO THE ENGINEER FOR APPROVAL 7 DAYS PRIOR TO CONSTRUCTION. NO WORK SHALL BEGIN WITHOUT AN APPROVED TCP.

4. IMPLEMENT ONLY ONE TRAFFIC CONTROL SETUP AT A TIME AND RESTORE FULL FUNCTION AS SOON AS PRACTICABLE.

ALL SIGNS AND BARRICADES SHALL MEET REQUIREMENTS OF THE CURRENT ALASKA TRAFFIC MANUAL (ATM) AND ALASKA SIGN DESIGN SPECIFICATION (ASDS). THE FINAL JUDGEMENT IN THE SELECTION, NUMBER AND APPLICATIONS OF TRAFFIC CONTROL

6. EXISTING SIGNS THAT CONFLICT WITH CONSTRUCTION SIGNING SHALL BE COVERED DURING PROJECT. COORDINATE REMOVAL WITH

CONSTRUCTION SIGNING SPECIFIED MAY BE ALTERED BY THE ENGINEER TO MEET CHANGING CONDITIONS AND TO PROTECT THE

8. BUSINESSES WITHIN THE PROJECT LIMITS MAY HAVE DELIVERIES AND GARBAGE PICK-UP DURING NON-BUSINESS HOURS. CONTRACTOR SHALL CONTACT ALL BUSINESSES IN THE PROJECT AND COORDINATE WITH THEM TO ENSURE ACCESS.

9. PARKING AREAS, DRIVEWAYS, AND APPROACHES ADJACENT TO WORK SHALL BE RAMPED TO PROVIDE ACCESS. DELINEATE WITH

10. ACCESS SHALL BE PROVIDED TO COMMERCIAL PROPERTIES DURING THEIR BUSINESS HOURS AND TO RESIDENTIAL PROPERTIES CONTINUOUSLY. CLOSURES SHALL NOT OCCUR WITHOUT PRIOR WRITTEN APPROVAL OF THE ENGINEER. COORDINATE CLOSURE PLANS WITH THE AFFECTED BUSINESS OWNERS AND PROPERTY OWNERS. NOTIFY OWNERS A MINIMUM OF 48 HOURS PRIOR TO

12. ALTERNATE ACCESS MAY ALSO BE USED AS PART OF AN APPROVED TRAFFIC CONTROL PLAN. ALTERNATE ACCESS ROUTES SHALL

14. CONTRACTOR SHALL PROVIDE AFFECTED RESIDENTS NOTICE OF CONSTRUCTION A MAXIMUM OF 3 WEEKS AND MINIMUM OF 1

15. ALL SPECIAL CONSTRUCTION SIGNS SHALL BE FABRICATED OF MATERIALS CONFORMING TO SECTION 615 OF THE SPECIFICATIONS

16. CONTRACTOR SHALL PROVIDE PERSONNEL TO STOP PEDESTRIANS FROM ENTERING WORK ZONE AND KEEP THEM ON THE

17. ONE LANE, TWO WAY TRAFFIC REQUIRES ONE FLAGGER AT EACH END OF THE TRAFFIC CONTROL ZONE, UNLESS OTHERWISE

18. STORAGE OF ALL MATERIALS AS WELL AS SECURITY PRECAUTIONS ARE THE CONTRACTOR'S RESPONSIBILITY. DELINEATE STAGING AREA WITH ORANGE TRAFFIC CONES TO THE SATISFACTION OF THE ENGINEER. THE WORK IS SUBSIDIARY TO TRAFFIC CONTROL



TRAFFIC CONTROL PLAN



LAYOUT A

SCALE: SEE GRAPHIC SCALE

REVISION	STATE		VEND	SHEET	TOTAL
AVEC REVIEW	STATE	FROJECT DESIGNATION	TLAN	NO.	SHEETS
COORDINATION		0000000 /763770000	2010		
COORDINATION	ALASKA	000228072837720000	2019	UEI	####

1. ALL WORK SHALL COMPLY WITH THE REQUIREMENTS OF THE MOST RECENT EDITION OF THE NATIONAL ELECTRIC SAFETY CODE (NESC/IEEE C2) ADOPTED BY THE STATE OF ALASKA, RURAL UTILITY SERVICE (RUS) STANDARDS, AND AVEC STANDARDS. WHERE STANDARDS VARY, THE MOST STRINGENT SHALL APPLY.

2. PROJECT SCOPE OF THE ELECTRICAL DISTRIBUTION IMPROVEMENTS IS TO RELOCATE EXISTING AVEC OVERHEAD DISTRIBUTION FACILITIES TO ACCOMODATE STATE OF ALASKA DEPARTMENT OF TRANSPORTATION (DOT) IMPROVEMENTS TO BOARDWALKS IN SELAWIK AND THEIR PROVISION OF A NEW BARGE LANDING STORAGE AREA, AS SHOWN ON THE DRAWINGS AND DETAILED IN THE SPECIFICATIONS, AND STAKING SHEETS. 3. EXISTING PRIMARY CIRCUITS ARE ENERGIZED AT 12.47/7.2kV GROUNDED WYE. 4. POLE LOCATIONS, ALONG THE ALIGNMENT SHOWN, MAY BE FIELD ADJUSTED BY

SCHEDULE, SEQUENCE, AND COORDINATE CONSTRUCTION AND DEMOLITION TO MINIMIZE REQUIRED OUTAGE FREQUENCY AND DURATION, AND TO MINIMIZE

DIRECT SET POLES SHALL BE SET AT A MINIMUM DEPTH OF 10% PLUS 3'. ALL NEW POLES AND ANCHORS INSTALLED IN/AROUND THE DOT BARGE LANDING IMPROVEMENTS SHALL BE PROVIDE WITH THE SPECIFIED NSF GRAVEL FILL. TO DIGGING.

CONSTRUCTION ASSEMBLIES SHOWN ON DRAWINGS ARE FOR EMPHASIS ONLY. REFERENCE STAKING SHEETS FOR THE REQUIRED ASSEMBLY UNITS AND WORK TO BE

WHERE ASSEMBLY UNITS REFERENCED ARE NOT DETAILED IN THIS DRAWING SET, SEE REA STANDARD DETAILS, BULLETIN 50-3, STD D804, v1983.

THE SPACING OF FACILITIES ON POLES, AND THE CONDUCTOR INSTALLATION SAGGING AND TENSIONS ARE CRITICAL TO ATTAIN REQUIRED CLEARANCES TO GRADE AND TO TO RELOCATED/ADJUSTED/NEW TELECOMMUNICATION FACILITIES WITHIN THE SPANS. 14. ALL PRIMARY THES SHALL BE OF THE FACTORY FORMED TYPE, UNLESS APPROVED

15. PROVIDE ARMOR ROD ON ALL BARE PRIMARY AND NEUTRAL CONDUCTORS ATTACHED TO PIN INSULATORS AND SPOOL CONDUCTOR ATTACHMENTS. 16. INSTALL NEUTRAL ON ROAD SIDE. THE NEUTRAL SHALL NOT CROSS THE PRIMARY IN

17. SOME WORK, NOT REQUIRED BY AVEC, BUT REQUIRED FOR A COORDINATED RELOCATION OF BOTH THE ELECTRICAL DISTRIBUTION AND OTZ'S TELECOMMUNICATION

PLANT ARE CALLED OUT ON THE DRAWINGS AND STAKING SHEETS FOR IMPACT TO POLES AND ANCHORS. SEE TELECOMMUNICATION DRAWINGS FOR TELECOMMUNICATION



LEGEND





<u>C1A</u> scale: nts

REVISION COORDINATION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
COORDINATION	ALASKA	0002280/Z637720000	2019	UE3	####

MATERIAL LIST
DESCRIPTION
5/8"
WINGING, MACLEAN #GD-J0322
BOLTED, QUADRANT SHOE, HUBBELL #PG57N
DEND, #2 ACSR, PREFORMED #DG-4542
R, SPOOL, 3", VICTOR #VI 2612, ANSI 53-2
OOD, 38" SPAN, 26" HOLE C. TO C. SPACING
2–1/4" SQUARE (13/16" HOLE)
3" SQUARE, CURVED (13/16" HOLE)
, AS REQUIRED
1, 3-5/8" X 4-5/8" X 8'-0"
RRIAGE, 3/8" X 4-1/2"
AG, 1/2" X 4-1/2"
R, POLYMER, SUSPENSION, 15 kV, (15,000 lb)
JBLE ARMING, 5/8" X REQ'D LENGTH
. 5/8" X REQ'D LENGTH

	NO. DATE REVISION STATE PROJECT DESIGNATION YEAR SHEET NO. SHEET
	B 7/21/21 ISSUED FOR COORDINATION ALASKA 0002280/Z637720000 2019 UE4 ####
4 ["] 3'-8" 3'-8" 4"	d-ek 1/2
9	cm as bo
	SECTION AT ELEVATION AT
- 4 [#] 4'-8" 4'-8"	NEUTRAL NEUTRAL ai
NEUTRAL	
PLAN	
	$\frac{1}{\sqrt{2}} + \frac{1}{\sqrt{2}} + 1$
cu POSITION ek	PLAN
c-d-ek DF GUY	
	NDTE: 1. LINK-DUT BØ IN BOTH DIRECTIONS ON BOTH CROSSARMS.
-FIELD ROAD	MATERIAL LIST
d-ek	Item NO. DESCRIPTION
j ec cm	ai 11 INSULATOR, PIN TYPE, PORCELAIN, F-NECK, 15 kV, ANSI 55-4 k 12 INSULATOR, POLYMER, SUSPENSION, 15 kV, (15,000 lb)
	cm 2 INSULATOR, SPOOL, 3", VICTOR #VI 2612, ANSI 53-2 b 1 PIN, POLE TOP, 20", 1" THREAD b 1 PIN, POLE TOP, 20", 1" THREAD
	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
a 6 INSULATOR, PIN TYPE, PORCELAIN, F-NECK, 15kV, ANSI 55-4	g 5 CROSSARM, 3-5/8 x4-5/8 x10-0 cu 4 BRACE, WOOD, 38" SPAN, 26" HOLE C. TO C. SPACING
c 2 BOLT, CARRIAGE, $3/8" \times 4 1/2"$	ca 12 DEADEND, BOLTED, QUADRANT SHOE, HUBBELL #PG57N cc 2 GRIP DEADEND #2 ACSR PREFORMED #DG-4542
c 5 BOLT, MACHINE, 5/8"XREQ"D LENGTH	as 2 CLEVIS, SWINGING, MACLEAN #GD-J0322
d 7 WASHER, 2-1/4" SQUARE WITH 11/16" HOLE f 5 PIN, CROSSARM, STEEL, 1"	i 4 BOLT, CARRIAGE, 3/8" X 4-1/2" c 4 BOLT, MACHINE, 1/2" x 6"
g 1 CROSSARM, 3-5/8" X 4-5/8" X 8'-0" g 1 CROSSARM, 3-5/8" X 4-5/8" X 10'-0"	c3BOLT, MACHINE, 5/8" X REQ'D LENGTHo4BOLT, EYE, 5/8" X REQ'D LENGTH
cu 2 BRACE, WOOD, 38" SPAN, 26" HOLE C. TO C. SPACING cu 2 BRACE, WOOD, 60" SPAN, 18" DROP	n8BOLT, DOUBLE ARMING, 5/8" X REQ'D LENGTHd31WASHER, 2-1/4" SQUARE (11/16" HOLE)
om 1 INSULATOR, SPOOL, 3", VICTOR #VI 2612, ANSI 53-2 eq 1 BRACKET, OFFSET NEUTRAL	j 2 SCREW, LAG, 1/2" × 4-1/2" u 1-1/2 CLAMP, GUY, 6", HEAVY DUTY
) 3 SCREW, LAG, 1/2 × 4" ek – LOCKNUTS, AS REQUIRED	bo 8 SHACKLE, ANCHOR ek – LOCKNUTS, AS REQUIRED
ah 6 TIE, WRAPLOCK, F-NECK, SINGLE SUPPORT, PREFORMED #WTF-0218	p - CUNNECTURS, CUMPRESSION H-TAP, AS REQUIRED av - JUMPER, #2 ACSR, AS REQUIRED ab TE #4 DAPE SOLID ALLMAINT AS PEOLIDED
LUIT I THE, WHAFLOOK, SFOOL, PREFORMED #SPL-1339-P	UNI - INL, #4 DARE, SULID, ALUMINUM, AS REQUIRED
DC1A scale: nts	DC8X scale: nts



NO.	DA 7/13	.te 3/21	ISSUED	REVISION FOR COORDINATION	STATE	PROJECT DES	SIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
В	7/2	1/21	ISSUED) FOR COORDINATION	ALASKA	0002280/Z63	37720000	2019	UE5	####
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				MATE	RIAL LI	ST				
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		ЧС	D 3 D							
	tem	\leq	ĭ ≥		DESCRI	PTION				
	ev	1	1	INSULATOR, GUY STRAIN	N, CLEVIS	5/THIMBLE—EY	Έ, 96", 2	21,000		
		1	1	LBS., HUBBELL #GS210	<u> 196CP, (</u>	OR APPROVED	EQUAL			
	V	I		OR APPROVED FOLIAL	UU LDS.,	NUBBELL #G	EPO,			
	C	1	2	BOLT. MACHINE. 3/4"	x REQUIE	RED LENGTH				
	d	1	2	WASHER, STEEL, 4" SQ	UARE, C	URVED, 13/1	6"HOLE,	3/8"	THICK	
	ek	1	2	LOCKNUT, 3/4"						
	j	1		SCREW, LAG, 1/2" x 4	1/2"]
				M5-23P &	M5-2	3PS				





MATERIAL LIST
DESCRIPTION
EL, 4" SQUARE, CURVED, 3/8" THICK, WITH 13/16" HOLE
IP, PREFORMED #GDE-1108
STRAND, 7/16", GALVANIZED STEEL, EHS, AS REQ'D
E TYPE EYE, 3/4"
LEYE, 3/4" × REQUIRED LENGTH
ROUNDING, AS REQUIRED, #6 BARE SOLID COPPER
, COMPRESSION, AS REQUIRED
3/4", AS REQUIRED



REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET	TOTAL
COORDINATION		0002280 /7637720000	2010		
	ALASKA	000228072637720000	2019	UEO	####



1	ISSUED	FOR	REVISION COORDINATION	STATE	PROJECT	DESIGNATION	YEAR	SHEET NO	TOTAL SHEFTS
1	ISSUED	FOR	COORDINATION	ALASKA	0002280/	Z637720000	2019	UE7	####
			— — cj — POLE GROUN!		р				
		12 <i>*</i> 100	WPRESSION SPLICE EN REQUIRED	al cj -aj -aj -ai nin		GRO	und le	evel	
	NOTES: 1. POLE	GROI	JND WIRE TO BE L	LE GROUN	ND ON SAME	SIDE AS NEUT	RAL CO		OR

 POLE GROUND WIRE TO BE LOCATED ON SAME SIDE AS NEUTRAL CONDUCTOR AND IN QUADRANT OPPOSITE CLIMBING SPACE AND ON SIDE OF RISER.
 STAPLES ON GROUND WIRES SHALL BE 2'-0" APART. EXCEPT FOR A DISTANCE OF 8'-0" ABOVE GROUND AND 8'-0" FROM TOP OF POLE, WHERE THEY SHALL BE 6" APART.

3. GROUND WIRE TO CLEAR ALL HARDWARE BY 2" MINIMUM, AND SHALL BE STAPLED TO MAINTAIN THIS POSITION.

	MATERIAL LIST
	DESCRIPTION
)'D	CONNECTOR, COMPRESSION
	ROD, GROUND, COPPER-CLAD STEEL, 5/8" MIN. X 8'
	GROUND ROD CLAMP
)'D	STAPLES, COPPER CLAD
	GROUND WIRE CLIP
)'D	GROUND WIRE, #6 COPPER
	<u>M2-11</u> scale: nts





NO.	DATE	

	Minimum & Max	imum Cover for	
9"X 2	I/2" Aluminum	Structural Plate	Pipe*
Thickness		0.125	0.150
Dia.	Min.	Max.	Max.
(In)	(in)	(F†)	(Ft)
84	18	31	
90	18	27	
96	18	27	
102	18	24	
108	18	24	
114	18	21	
120	24	21	
126	24	19	
132	30	19	
138	30	18	
144	30	18	
150	30		22
156	30		22
162	36		20
168	36		20
*5.33 - 3/4	dia. steel bolts	per foot.	

3" x I" Aluminum Pipe							
Gage		16	14	12	10	8	
Thick	iness	0.060	0.075	0.105	0.135	0.164	
Dia. (In)	Min. (In)	Max. (Ft)	Max. (Ft)	Max. (Ft)	Max. (Ft)	Max. (Ft)	
30	12	57	72	100+	100+	100+	
36	12	47	60	84	100+	100+	
42	12	40	51	72	96	100+	
48	12	35	44	62	84	99	
54	15	31	39	55	74	88	
60	15	28	35	50	67	79	
66	18	25	32	45	61	72	
72	18	23	29	41	56	66	
78	21		27	38	51	61	
84	21			35	48	56	
90	24			33	44	52	
96	24			31	41	49	
102	24				39	46	
108	24				37	43	
114	24					39	
120	24					36	

Minimum & Maximum Cover for

	Minimum & Maximum Cover for 2 2/3'X 1/2"Aluminum Pipe							
Go	ıge	16	14	12	10	8		
Thic	kness	0.060	0.075	0.105	0.135	0.164		
Dia. (In)	Min. (In)	Max. (Ft)	Max. (Ft)	Max. (Ft)	Max. (Ft)	Max. (Ft)		
12	12	100+	100+	100+	100+	100+		
15	12	100	100+	100+	100+	100+		
18	12	83	100+	100+	100+	100+		
21	12	71	89	100+	100+	100+		
24	12	62	78	100+	100+	100+		
27	12		69	97	100+	100+		
30	12		62	87	100+	100+		
36	12		51	73	94	100+		
42	12			62	80	100+		
48	12			54	70	85		
54	15			48	62	76		
60	15				52	64		
66	18					52		
72	18					43		

CORRUGATED CIRCULAR ALUMINUM PIPE

001111001			
	IGATED		PIPE-AR

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imum & Mo 'x l″Alum	aximum Cov ninum Pipe-	er for Arch				Minir 9″ x 2 1/2	mum & Max 2″ Aluminum	imum Cover Multiplate	for Pipe-Arch*
		2 Tons/Sf Bearing Pr	i Corner Pressure						
Corner Radius (In)	Min. Thickness (In)	Min. Cover (In)	Max. Cover (Ft)		Span (FtIn.)	Rise (FtIn.)	Corner Radius (In)	Min. Thickness (In)	Min. Cover (In)
18 678	(0.075)	15	20						
20 6/8	14	18	20		6-7	5-8	31.75	0.125	24
	(0.075)				6-11	5-9	31.75	0.125	24
22 7/8	14	21	20	1	7-3	5-II	31.75	0.125	24
	(0.075)				7-9	6-0	31.75	0.125	24
20 7/8	12 (0.105)	21	16		8-5	6-3	31.75	0.125	24
22 7/8	12 (0.105)	24	16		9-3	6-5	31.75	0.125	24
24 3/8	12 (0.105)	24	16		10-3	6-9	31.75	0.125	30
26 1/8	10 (0.135)	24	16		10-9	6-10	31.75	0.125	30
27 6/8	8 (0.164)	24	16		II-5	7-I	31.75	0.125	30
					12-7	7-5	31.75	0.125	30
					12-11	7-6	31.75	0.125	30
					13-1	8-2	31.75	0.125	30
					13-11	8-5	31.75	0.125	36

Minimum 8 Maximum Cover for 2 2/3"X I/2"Aluminum Pipe-Arch											
				2 Tons/Sf Corner Bearing Pressure							
Span (FtIn.)	Rise (FtIn.)	Corner Radius (In)	Min. Thickness (In)	Min. Cover (In)	Max. Cover (Ft)						
17	13	3 4/8	16 (0.060)	12	13						
21	15	4 1/8	16 (0.060)	12	12						
24	18	4 7/8	16 (0.060)	12	12						
28	20	5 4/8	14 (0.075)	12	12						
35	24	6 7/8	14 (0.075)	12	12						
42	29	8 2/8	12 (0.105)	12	12						
49	33	9 5/8	12 (0.105)	15	12						
57	38	=	10 (0.135)	15	12						
64	43	12 3/8	10 (0.135)	18	12						
71	47	13 6/8	8 (0.164)	18	12						

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Tons/Sf

Corner

Bearing Pressure

Max. Cover

(Ft)

24

24

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0.125

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0.150

0.150

0.150

0.175

31.75

31.75

31.75

31.75

31.75

31.75

II-8 3I.75 0.175

*5.33 - 3/4" dia. steel bolts per foot.

14-8 9-8

10-0

10-4

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REVISION	STATE	PROJECT	DESIGNATION	YEAR	SHEET NO.	TOTAL SHEET
	ALASKA	0002280	/Z637720000	2021	V2	V12
D-0	SHEET of 4					
GENI All material and workr accordance with the S Specifications for High	ERAL NO nanship sh tate of A way Cons	OTES: nall be in Maska, Stan truction.	dard			

The contractor shall select only pipes that meet specific height of cover criteria shown on the plans or in the special provisions.

No more than one type of pipe may be used on any single installation or installation grouping.

4. All structural plate pipes shall be placed on a pre-shaped foundation conforming to the depth of the bottom plates with clearance for assembling to the adjacent plates allowed.

5. See Standard Plan D-OI "Culvert Pipe & Arch Installation Details" for foundation and structural backfill details.

6. Minimum cover shall be measured from the top of pipe to the top of rigid pavement or to the bottom of flexible pavement subgrade. In all cases, the minimum cover shall not be less than 12". Minimum cover during construction shall be that required to protect the pipe from damage or deflection.

7. These tables have been developed for an $HL\ensuremath{\text{HL-93}}$ live load and for compacted soil weighing 120 lbs. per cubic foot or less. If compacted soil cover exceeds I20 lbs. per cubic foot, the contractor shall use the depth of cover shown in the plans for the specific pipe. Where compacted soil cover exceeds I20 lbs. per cubic foot and no specific cover requirements are provided in the plans, the contractor shall determine the required minimum pipe cover in accordance with Section 12 of the 2017 AASHTO "LRFD Bridge Design Specifications".

> State of Alaska DOT&PF ALASKA STANDARD PLAN

PIPE AND ARCH TABLES

Adopted as an Alaska Carolyn Morehouse Standard Plan by:

Carolyn Morehouse, P.E. Chief Engineer

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Adoption Date: 7/17/2020

Last Code and Stds. Review By: KLH Date: 7/8/2020

Next Code and Standards Review date: 7/8/2030

ALASKA STANDARD PLANS DETAILS



NO.	DATE		RE	VISION	STATE			VEAD	SHEET	TOTAL		
					STATE	PROJECT DESIGN	ATION	TEAR	NO.	SHEETS		
					ALASKA	0002280/Z63772	0000	2021	V3	V12		
						SHEET						
GF	INER	AL N	OTES		J4. 2	2 of 4						
All	materia	and w	orkmanshi	p shall be in accor	rdance wi	th the State of						
Alas	ska, St	andard S	Specificatio	ons for Highway Ca	onstruction							
The	contro	actor she	all select	only pipes that me	et specifi	c height of						
No	more t	han one	type of	pipe may be used	on any s	ingle						
inst	allation	or insta	allation gro	ouping.								
All	structu	ral plate	pipes sh depth of	all be placed on a	pre-shap with clea	ed foundation						
ass	embling	to the	adjacent	plates allowed.								
See	Stand	ard Plan	D-01 "Cu	lvert Pipe & Arch	Installatio	n Details" for						
tou	foundation and structural backfill defails.											
Mini riai	Minimum cover shall be measured from the top of pipe to the top of rigid payement or to the bottom of flexible payement subgrade. In											
all	all cases, the minimum cover shall not be less than 12". Minimum cover during construction shall be that required to protect the pipe											
cover during construction shall be that required to protect the pipe from damage or deflecton.												
The	These tables have been developed for an HL-93 live load and for											
corr soil	pacted cover	soil we exceeds	ighing 120 120 lbs.	lbs. per cubic foo	ot or less e contrac	. If compacted tor shall use						
the	depth	of cove	r shown i	n the plans for th	e specific	pipe. Where						
cov	er requ	irements	are prov	vided in the plans,	the contr	actor shall						
l2 d	of the	2017 AA	ASHTO "LI	RFD Bridge Design	Specifica	tions".						
laximu	m Cover	for										
Pipe-Ai	rch 6" x 2 Tons/	2" * Sf Corner	Bearing									
·	Min.	Pressure Min	Max.									
;	Gage (In)	Cover (In)	Cover (Ft)									
12	2 (O.III) 2 (O.III)	12	14									
12	(0.III) ? (0.III)	12	10	State	f Alegi							
12	2 (O.III) 2 (O.III)	18 18	9 8	ALASKA	STAND	ARD PLAN						
12	2 (0.111)	18	6									
12	2 (0.111) 2 (0.111)	18 24	5	PIPE AN	ND ARCH	I TABLES						
10	(0.140)	24	10									
10	(0.140)	24	9	Adopted as an Al Standard Plan	oska by:Carol	lyn Morehouse						
10	(0.140)	30 30	8		Caro	lyn Morehouse, P.E.						
10	(0.140)	30	7	Adoption Date: 7/1	7/2020	Giner Engineer	22					
10	(0.140)	30 30	6	Last Code and Std	s Review		4.5					
10	(0.140)	36	6	By: KLH Date: 7	7/8/2020		<mark>0</mark>					
ot.				Next Code and Sta	ındards Revi	ew date: 7/8/2030	Ď	ATE	OF AL	21		
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			ALA	SKA SIA		KU PLAN	12 	` 	ROFESSIONAL			
				DE	IAIL	2		- 1				

Minimum & Maximum Cover for 2 2/3" x 1/2" Steel Pipe									
Go	ge	16	14	12	10	8			
Thick	iness	0.060	0.075	0.105	0.135	0.164			
Dia. (In)	Min. (In)	Max. (Ft)	Max. (Ft)	Max. (Ft)	Max. (Ft)	Max. (Ft)			
12	12	100+	100+	100+	100+	100+			
15	12	100+	100+	100+	100+	100+			
18	12	100+	100+	100+	100+	100+			
21	12	100+	100+	100+	100+	100+			
24	12	100+	100+	100+	100+	100+			
30	12	83	100+	100+	100+	100+			
36	12	69	86	100+	100+	100+			
42	12	59	74	100+	100+	100+			
48	12	51	64	91	100+	100+			
54	12		57	80	100+	100+			
60	12			72	93	100+			
66	12			66	85	100+			
72	12				78	95			
78	12					84			
84	12					73			

Minimum & Maximum Cover fo 3" x I" Steel Pipe										
Go	ige	16	14	12	10	8				
Thick	ness	0.060	0.075	0.105	0.135	0.164				
Dia. (In)	Min. (In)	Max. (Ft)	Max. (Ft)	Max. (Ft)	Max. (Ft)	Max. (Ft)				
36	12			100+	100+	100+				
42	12			100+	100+	100+				
48	12		74	100+	100+	100+				
54	12	53	66	93	100+	100+				
60	12	47	59	83	100+	100+				
66	12	43	54	76	98	100+				
72	12	39	49	69	89	100+				
78	12	36	45	64	82	100+				
84	12	33	42	59	77	94				
90	12	31	39	55	71	87				
96	12	29	37	52	67	82				
102	18	27	34	49	63	77				
108	18		32	46	59	73				
4	18		31	43	56	69				
120	18		29	41	53	65				
126	18			39	51	62				
132	18			37	48	59				
138	18			36	46	57				
144	18				44	54				

		Minimum 5"	8 Maxim x I" Ste	um Cove el Pipe	r for		
Ga	ige	16	14	12	10	8	
Thick	ness	0.060	0.075	0.105 0.135		0.164	
Dia. (In)	Min. (In)	Max. (F†)	Max. (Ft)	ix. Max. Ma t) (Ft) (F		Max. (Ft)	
36	12	71	88	100+	100+	100+	
42	12	60	76	100+	100+	100+	
48	12	53	66	93	100+	100+	
54	12	47	59	82	100+	100+	
60	12	42	53	74	96	100+	
66	12	38	48	67	87	100+	
72	12	35	44	62	79	97	
78	12	32	40	57	73	90	
84	12	30	37	53	68	83	
90	12	28	35	49	63	78	
96	12	26	33	46	59	73	
102	18	24	31	43	56	69	
108	18		29	41	53	65	
114	18		27	39	50	61	
120	18		26	37	47	58	
126	18			35	45	55	
132	18			33	43	53	
138	18			32	41	50	
144	18				39	48	

Minimu	um 8, N	laximum	Cover	for 6"	x 2"	Steel Mu	ultiplate
Ga	ge	12	10	8	7	5	3
Thick	iness	0.111	0.140	0.170	0.188	0.218	0.249
Dia. (In)	Min. (In)	Max. (Ft)	Max. (Ft)	Max. (Ft)	Max. (Ft)	Max. (Ft)	Max. (Ft)
60	12	46	67	87	100	100+	100+
66	12	42	60	79	91	100+	100+
72	12	38	55	73	83	100+	100+
78	12	35	51	67	77	93	100+
84	12	32	47	62	71	86	100+
90	12	30	44	58	67	80	95
96	12	28	41	54	62	75	89
102	18	27	39	51	59	71	84
108	18	25	37	48	55	67	79
114	18	24	35	45	52	63	75
120	18	22	33	43	50	60	71
126	18	21	31	41	47	57	68
132	18	20	30	39	45	54	64
138	18	19	28	37	43	52	62
144	18	18	27	36	41	50	59

- CORRUGATED CIRCULAR STEEL PIPE

CORRUGATED STEEL PIPE-ARCH -

	NO	DATE	1							CULLET	TOTAL
	<u>NO.</u>	DATE		REVIS		STATE	PROJECT DESIGN	ATION	YEAR	NO.	SHEETS
						ALASKA	0002280/Z637720	0000	2021	٧3	V12
							,				
							SHEET				
m Cover for 6" x 2" Steel Multiplate Pipe*	GI	TNERA	L NOTI	25		74.2	2 of 4				
IO 8 7 5 3 I	. All	material	and workm	anshin s	hall be in accor	rdance wit	th the State of				
0.140 0.170 0.188 0.218 0.249 0.280	. Ala	ska, Stan	dard Specif	ications	for Highway Co	onstruction					
. Max. Max. Max. Max. Max. Max. Max. (Ft) (Ft) (Ft) (Ft) (Ft) (Ft) (Ft) (Ft)	2 The		or shall se	lect onl	, nines that me	et specifi	c height of				
67 87 100 100+ 100+ 100+	cov	er criteri	a shown or	the pl	ans or in the s	special pro	visions.				
60 79 9I 100+ 100+ 100+ 55 73 83 100+ 100+ 100+	3. No	more tha	n one type r installation	of pip	e may be used	on any s	ingle				
5I 67 77 93 IOO+ IOO+	11131			group	jirg.						
47 62 71 86 100+ 100+	4. All	structura	l plate pipe	s shall	be placed on a	pre-shap	ed foundation				
44 58 67 80 95 100+	ass	embling t	o the adjac	ent pla	es allowed.	will cleu					
39 51 59 71 84 91	5 5 6	Standar	d Plan D-OI	"Culve	t Pine 8 Arch	Installatio	n Details" for				
37 48 55 67 79 86	fou	ndation a	nd structure	al backf	Il details.	Installatio					
33 43 50 60 71 77	e Min		ar shell be		ad from the to	n of sine	to the ten of				
31 41 47 57 68 74	s. min rigi	d paveme	nt or to th	ne botto	m of flexible p	avement s	ubgrade. In				
30 39 45 54 64 70 28 37 43 52 62 67	all	cases, th	e minimum	cover s	hall not be less	s than 12"	. Minimum				
27 36 4I 50 59 64	froi	m damage	or deflect	on snall on.	be that require	a to prot	ect the pipe				
bolts per foot.	7					07 11 1					
	con	ese tables npacted s	have been oil weiahina	l develo 120 lb	ped for an HL- s, per cubic for	93 live lo at ar less	ad and for				
	soil	cover e	xceeds 120	lbs. pe	cubic foot, th	e contrac	tor shall use				
	the	depth of npacted s	oil cover sho	wn in t xceeds	he plans for the 120 lbs per cul	e specific bic foot c	pipe. Where				
	cov	er require	ements are	provide	d in the plans,	the contr	actor shall				
	det 12	ermine th of the 20	e required	minimum) "I RFI	pipe cover in Bridge Design	accordanc	e with Section				
	12	01 1110 20			Bridge Beergin	opeenieu					
Minimum 8	Maximu	m Cover fo	r n *								
Steel Multiplate	e Pipe-A	rch 6″x 2 Tons/Sf	2 [∞] Corner Bearin	g							
ner Bearing	ner	Pr	essure Min Ma	-							
Max. (FtIn.) (FtIn.) Rad	dius	Gage (Cover Cov	er							
r Cover (Ir (Ft) 6-I 4-7 It	11/1 B 1/2	(IN) 2 (O.III)	(F) (F)								
10 7-0 5-1 18	в 12	2 (0.111)	12 12								
29 7-II 5-7 IE	B 12	2 (0.111)	12 10	[State o	f Alask	a DOT&PF				
<u></u>	3 12 3 12	2 (0.111)	18 8	-	ALASKA	STAND	ARD PLAN				
15 10-11 7-1 18	в 12	2 (0.111)	18 6								
II-IO 7-7 IE	B 12	2 (0.111)	18 5	_]	PIPE AN	ND ARCH	I TABLES				
I4 I2-I0 8-4 I8 I3-3 9-4 3	- IA SI IO	(0.140)	24 5 24 II								
14 14 14-2 9-10 3	51 10	(0.140)	24 10		Adopted as **	acka (1 74 1				
14 15-4 10-4 3	51 10	(0.140)	24 9		Standard Plan	by:	yn Morehouse				
I4 I6-3 I0-I0 3 I3 I7-2 II-4 3	a 10 51 10	(0.140)	30 8			Caro	lyn Morehouse, P.E.				
3 8-I I-I0 3	si 10	(0.140)	30 7	-	Adoption Date: 7/1	7/2020	Uniet Engineer	2			
13 19-3 12-4 3	51 10	(0.140)	30 7					N.			
4 9- 2- 0 3 3 20-7 3-2 3		(0.140)	30 6 36 6	[Last Code and Std	ds. Review		04			
*4 - 3/4" dia. steel bolts per	foot.	,	0		Dy: KLH Date: 7	17872020		Ī		anne.	
					Nexi code and Sta	maaras Revi	ew aate: 7/8/2030	D	ATE	OFAL	$\frac{1}{2}$
									₽ \$`40	MINA	N ¹
						–			RE	- WE	8. II
			A	LAS	KA STA	ANDA	RD PLAN	SI	Y'' (2-2-	
						TAIL	2		ન્	ROFESSIONAL	5
					DE	IAIL	د				

						Span	
	Minir	num & Max	imum Cover	for		(FtIn.)	(F
	2 2	2/3"X 1/2"9	Steel Pipe-A	rch			
			2 Tons	/Sf Corner	Bearing	53	
				Pressure		60	
Span	Rise	Corner	Min.	Min.	Max.	66	
(FtIn.)	(FtIn.)	Radius	Thickness	Cover	Cover	73	
		(in)	{In}	(in)	(F †)	8	
17	13	3 4/8	16 (0.060)	12	I	97	
21	15	4 1/8	16 (0.060)	12	Ш	07	
24	18	4 7/8	16 (0.060)	12	Ш	95	-
28	20	5 4/8	0.000	12		103	
75	24	6 7/9		12		112	
30	24	0 1/0	10.0601	12		7	
42	29	8 2/8	16 (0.060)	12		128	
49	33	9 5/8	14 (0.075)	12		137	
57	38	=	12 (0.109)	12	11	142	
64	43	12 3/8	12 (0,109)	12	Ш	150	
71	47	13 6/8	10 (0.138)	12	Ш	157	
77	52	15 1/8	10 (0.138)	12		164	
83	57	16 4/8	8 (0.168)	12		171	

		Minii	mum & Max 3"X ["Stee	Imum Cover I Pipe-Arch	for	
				2 Tons	/Sf Corner Pressure	Bearing
	Span (FtIn.)	Rise (FfIn.)	Corner Radius (In)	Min. Thickness {In)	Min. Cover (In)	Max. Cover (F†)
	53	41	10 2/8	14 (0.079)	12	10
	60	46	18 6/8	14 (0.079)	15	29
	66	51	20 6/8	14 (0.079)	15	29
	73	55	22 7/8	14 (0.079)	18	18
1	81	59	20 7/8	14 (0.079)	18	15
	87	63	22 7/8	14 (0.079)	18	15
4	95	67	24 3/8	14 (0.079)	18	15
	103	71	26 1/8	14 (0.079)	18	14
1	112	75	27 6/8	14 (0.079)	21	14
	7	79	29 4/8	12 (0.109)	21	14
	128	83	31 2/8	10 (0.138)	24	14
	137	87	33	10 (0.138)	24	14
	142	91	34 6/8	10 (0.138)	24	13
	150	96	36	10 (0.138)	30	13
	157	96	38	10 (0.138)	30	13
	164	105	40	10 (0.138)	30	14
	171	IIO	41	10 (0.138)	30	13

	Minir	num & Max 5"X I"Stee	imum Cover I Pipe-Arch	for	
			2 Tons	/Sf Corner Pressure	Bearing
Span (FtIn.)	Rise (FtIn.)	Corner Radius (In)	Min. Thickness (In)	Min. Cover (In)	Max. Cover (Ft)
53	41	10 2/8	14 (0.079)	12	10
60	46	18 6/8	14 (0.079)	15	29
66	51	20 6/8	14 (0.079)	15	29
73	55	22 7/8	14 (0.079)	18	18
81	59	20 7/8	14 (0.079)	18	15
87	63	22 7/8	14 (0.079)	18	15
95	67	24 3/8	14 (0.079)	18	15
103	71	26 1/8	14 (0.079)	18	14
112	75	27 6/8	14 (0.079)	21	14
7	79	29 4/8	12 (0.109)	21	14
128	83	31 2/8	10 (0.138)	24	14
137	87	33	10 (0.138)	24	14
142	91	34 6/8	10 (0.138)	24	13
150	96	36	10 (0.138)	30	13
157	96	38	10 (0.138)	30	13
164	105	40	10 (0.138)	30	14
171	IIO	41	10 (0.138)	30	13



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		Aluminum	Spiral Rib F	Pipe-Arch*		
Go	ige		16	4	12	10
Thic	kness		0.060	0.075	0.105	0.135
Span (FtIn.)	Rise (FtIn.)	Min. Cover (In)		Mo Co (F	ver t)	
20	16	12	16			
23	19	12	15			
27	21	15	13	13		
33	26	18	13	13	13	
40	31	21		13	13	
46	36	24			13	13
53	41	24			13	13
60	46	24			13	13
66	51	24				13

Minimum B Maximum Cover for									
Aluminum Spiral Rib Circular Pipe*									
Ga	ge	16	14	12	10				
Thick	ness	0.064	0.079	0.109	0.138				
Dia. (In)	Min. (In)	Max. (Ft)	Max. (Ft)	Max. (Ft)	Max. (F†)				
18	12	43	61						
21	12	38	52	84					
24	12	33	45	73					
30	15	26	36	58					
36	18	21	30	49	69				
42	21		25	41	59				
48	24			36	51				
54	24			32	46				
60	24			29	41				
66	24				37				
72	30				34				
*34 x 34 3	x 7½ in. Co	orrugations							

- ALUMINUM SPIRAL RIB PIPE

						-			
				STEEL	_ SPIR	AL	RIE	3 PIF	PE
	Mini	mum & Max teel and Alu	imum Cover uminized Ste	for el				Minimun Steel	n 8a Spir
		Spiral Rib C	ircular Pipe*	*					
Go	ige	16	14	12	10				
hickness		0.064	0.079	0.109	0.138		Thick	iness	
Dia. (In)	Min. (In)	Max. (Ft)	Max. (F†)	Max. (Ft)	Max. (Ft)		Span (FtIn.)	Rise (FtIn.)	Mi Co\ (Ir
18	12	91		10.0			20	16	12
24	12	68	95	100+			23	19	12
30	12	54	/6	100+			27	21	12
36	12	45	63	100+			33	26	12
42	12	38	54	90			40	20	12
48	12	33	47	79			40	76	12
54	18	30	42	70			40	36	12
60	18	27	38	63	92		53	41	18
66	18	24	34	57	83	1	60	46	18
72	18		31	52	76	1	66	51	18
78	24		29	48	70	1	73	55	18
84	24		27	45	65	1	81	59	18
90	24			42	61		87	63	18
96	24			39	56		95	67	18
102	30			36	50		*34 x 34	x 716 in	Corr
108	30			32	45		/4 ^ /4	/2 ///.	3011

Minimum & Maximum Cover for Steel Spiral Rib Pipe-Arch* 2 Tons/Sf Corner Bearing Pressure 0.064 0.079 0.109 Thickness Max. Cover (F†) Span Rise Cover (Ft.-In.) {Ft.-In.} (i+ r,-in,) (i+ r,-in,) (in) 20 i6 i2 i3 23 i9 i2 i3 27 2i i2 ii 33 26 i2 ii 40 3i i2 ii 46 36 i2 ii 53 4i i8 53 41 18 11 60 46 18 66 51 18 73 55 18 19 19 18 8I 59 18 87 63 18 95 67 18 15 15 15

*¾ x ¾ x 7½ in. Corrugations

*¾ x ¾ x 7½ in. Corrugations.

(907) 374-0275 99709, ¥ 00 SUITE ROAD, COLLEGE PLANS DEVELOPED BY: DOWL, LLC, CERT. OF AUTHORIZATION NO.: AECL848, 3535 C:\dowLpw\d0391084\63772_V_DOT STD PLNS-V5 Fri, Aug/20/21 09:59am

REVIS	SION	STATE	PROJECT	DESIGNATIO	N YEAR	SHEET NO.	TOTAL SHEETS
		ALASKA	0002280	/Z637720000	2021	V5	V12
	D-0) 4 <i>.</i> 1	22	SHEET 4 of 4			
All m accor Speci	GENERAL naterial and work dance with the fications for Hig	NOTES manship State of hway Con	shall be in Alaska, Sta struction.	an dør d			
The that show	contractor shall meet specific he n on the plans	select on light of c or in the	ly pipes over criter special pro	a ovisions.			
No m used group	nore than one ty on any single in ping.	pe of pip nstallation	e may be or installa	tion			
All s a pre depth for a allow	tructural plate pi s-shaped foundat of the bottom ussembling to the ed.	ipes shall ion confor plates wi adjacent	be placed ming to th th clearanc plates	on le e			
See Instal struc	Standard Plan D lation Details" fo tural backfill det	-OI "Culve r foundat ails.	rt Pipe & ion and	Arch			
Minim of pi the b In all be le const the p	num cover shall pe to the top o pottom of flexible cases, the mini ess than 12". Min truction shall be pipe from damag	be measu f rigid pa e pavemen mum cove imum cov that requ e or defle	red from t vement or nt subgrade er shall not er during ired to pro ecton.	he top to e. tect			
These live I I2O I comp cubic depth speci excee speci in the the r with Bridg	e tables have be oad and for cor bs. per cubic fo acted soil cover foot, the contro- of cover show fic pipe. Where eds 120 lbs. per fic cover require e plans, the con equired minimum Section 12 of th e Design Specific	een develd npacted s ot or less exceeds actor shall compacted cubic foo sments ar- tractor st pipe cov ve 2017 A cations".	oped for ar oil weighing s. If 120 lbs. p l use the plans for t d soil cove of and no e provided all determi er in acco ASHTO "Ll	n HL-93 er he r ne rdance RFD			
	State of ALASKA	of Alask STANI	ca DOT& DARD PL	PF AN			
	PIPE A	AND ARC	CH TABLI	ES			
	Adopted as an A Standard Pla Adoption Date: 7/	Naska <i>Ca</i> n by: Car /17/2020	rolyn Marehous Chief Engine	er P.E.			
	Last Code and Si By: KLH Date:	tds. Review 7/8/2020		04.			
	Next Code and St	andards Rev	view date: 7/	^{8/2030}	STATES 45	OF AL	Rt Rt
LAS	SKA STA DE	NDA TAILS	RD F S	LANS	PRE	PS&E	Niller Million





NO. DATE

REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
	ALASKA	0002280/Z637720000	2021	V7	V12



RE	VISION	STATE	PROJECT	DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS			
		ALASKA	0002280	/Z637720000	2021	V8	V12			
			1		1	I	I			
	F-	03.0	2 st	HEET of						
AL N	IOTES:									
nown are to indicate general design only. is may vary slightly among the manufacturers. ric shall be of the same design and height										
ence ric si	fabric. 1all be <u>fur</u> nishe	ed with knucl	kle selvage							
botto	m.		denth							
ith a or an	nigs snall be d diameter 1/2 te stop.	times large	depth as r except a	end s						
mes be and o t stre eration	may be fabrico braced to elim ther gate appu ngth and desig	ated by weldi inate sagging urtenances st gn to assure	ing or rive g. Hinges, nall be of easy troul	ting ble						
	GATE FR	AME]							
ST'		UARE TUBE								
1 1/2	" 2.72 <i>#</i> 2" x	2" 4.3I#								
"										
1 1/2	" 2.72# "		1							
2"	3.65 <i>#</i> "	"]							
"	" 2" x	2″ 4.3I #]							
`	State	of Alaska	DOT&PI	ק ו						
Ĺ	CHA	AIN LINK	FENCE							
Ľ		GATE								
ſ	Adopted as an Standard F	Alaska Plan by: Junual Kenne	the J. Fisher,	P.E.						
	Adoption Date:	02/08/2019	02							
	Last Code and By: Date	Stds. Review		03.						
	Next Code and	standards Review	w date: 02/08	в/2029 Г.	A THE	OF AL	. 1			
	1				* 40	MINA	K.			
	SKA S	τανηδ	PLANS	PRE	r'ist	A REAL PROPERTY OF				
\ <i>L</i>	, , , , , , , , , , , , , , , , , , ,)ΓΤΔΙΙ (S		ંગ	ROFESSIONAL	, st			
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REVIS	IUN	STATE	PROJECT DE	SIGNATION	YEAR	SHEET NO.	TOTAL SHEETS			
		ALASKA	0002280/Z6	37720000	2021	V9	V12			
	S-0		SHE	ET						
NOTES	3-0	.U. I								
the stat s that y ing mem	ndard specificat you may use fo nbers.	ions for or sign st	the aluminum neeting and wi	nd						
icate all ting.	signs from O.	125" thick	aluminum							
fabricat ed fram neer, if gn equal ed desig	tors may use a ing member wit the frame man s or exceeds t gn.	9								
Il one piece wind framing members on all signs o 23.5 wide. Use one splice in each wind e on all signs wider than 23.5'. Locate splices east 18" from all posts and panel edges. ger splices in adjacent framing members at t 8.0' apart.										
ch wind neer app sive tap ning mem tape ma rivets in	framing membe proved, double s re. Clean and h nbers and apply inufacturer's wr n both ends of	an ith I								
3/16″d 6061-T 6061-T	liameter rivets 6 for cold driv 43 for hot driv	conformin ven rivets ven rivets	g to aluminum , or aluminum 3.	1						
fabricat gral fram manufac eeds the ling atta	tors may use s ning with approv turer certifies t strength of th ched to it.	ign panel val of the their desid e 0.125"	s extruded wi e engineer, if gn equals or thick panel w	th						
ne all si iing men led, mak ie.	gns taller than nbers located (H e a horizontal	8.0' with H-0.15}/4 splice at	i five wind spaces. If the middle wi	nd						
not use	round pipes for	r sign su	oports.							
rivets										
ed Wind Nember 3/4″x	State o	f Alask	a DOT&PF							
	SI	GN FRA	MING							
	Adopted as an Al Standard Plan	laska Cara by: Cara	olyn Morshol Nyn Morehouse, P.	<i>LAE</i> E.						
	Adoption Date: 7/	17/2020	Chief Engineer	.12						
	Last Code and Sta By:WTH Date:	ds. Review 7/8/2020		00						
	Next Code and Sto	andards Rev	iew date: 7/8/20	30 0	ALL REAL	OF AL				
	-				* 40	AVINA	Ľ,			
ALAS	SKA STA		RD PL	ANS	PRE	PS&E	TITLE STATE			
	DE	TAIL:	5		4					



REVISION	STATE	PROJECT DESIGN	ATION	YEAR	SHEET	TOTAL
	ALASKA	0002280/Z63772	0000	2021	V10	V12
S-C		0002280/Z637724		2021	V10	V12
State of ALASKA BRAC MOUNTEI	of Alask STAND ING FOI O ON SI	a DOT&PF ARD PLAN R SIGNS NGLE POST				
Adopted as an A Standard Pla Adoption Date: 7/	ulaska <u>Ca</u> n by: <u> </u>	Inolyn Morekouse Jyn Morehouse, P.E. Chief Engineer	02			
Last Code and S By: WTH Date: Next Code and S	ds. Review 7/8/2020 andards Revi	ew date: 7/8/2030	S-01.	ATE AC	OFAL	".
LASKA STA DE	ANDA TAIL:	RD PLAN S	S	PRE	PSSE	THE REAL



REVISION		STATE	PROJECT	DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS					
		ALASKA	0002280,	/Z637720000	2021	V11	V12					
ENERAL	S-O NOTES	5.0	2 SF 1	HEET of 1								
ere should	dard sign offset is 12'. The minimum is 6' re shoulder width is 6' or greater.											
igns exte	iounting height nd over bike po	on unpav aths, the	ved roads. minimum									
tical clear	ical clearance is 8' 0".											
en signs are placed 30' or more from the e of traveled way, mount them with the com of the sign at least 5' above the road face at the near edge of the road.												
en multiple hinged sign supports are used, unt hinges at least 7' above the ground.												
imum moi pedestrian re sings	unting height is movements ar extend over sid	ng or										
construct ght shall l	tion signs in ru be 7' minimum.											
ſ	State of ALASKA	Alaska STANDA	DOT&PI RD PLAN									
	POST N OFFSE	IOUNT T AND	ED SIGN HEIGHT									
	Adopted as an Alas Standard Plan	ska by: <u>Carol</u> Carold	<i>yn More</i> n Morehouse.	house P.E.								
	Adoption Date: 7/1	c 7/2020	hief Engineer	.02								
	Last Code and Sta By:KLK Date: 7 Next Code and Sta	s. Review 7/8/2020 ndards Revi	ew Date: 7/8,				<u>ا</u> ، ا					
			. ,		* 40	MINA	RT					
ALAS	SKA STA DE	NDA TAILS	RD P S	LANS	PRE	PSSIC	ALL DE LE COMPANY					



REVISION		STATE	PROJECT	DESIGNATION	YEAR	SHEET	TOTAL						
					/ \\\	NO.	SHEETS						
		ALASKA	0002280	/Z637720000	2021	V12	V12						
	S-2	n 1 :		HEEI									
		<u> </u>		of									
RUCT	ION NOTES												
shown	indicate genero												
ions an cturers	id design may .												
weather xcept	tight caps on perforated tubin												
driven	driven sign posts with drive caps during												
aces to	ion. aces to posts at each point where they												
oosts.	osts.												
th a m	ngns with top of post, mounting brackets, h a minimum of 3" below top of sign.												
l sign mounting fasteners on sign face a osely matching the sign face.													
all signs, zees and braces mounted to sts with 5/16" bolts, nuts and washers.													
all alu	all aluminum nuts, bolts and washers												
odized	tinisn.												
				_									
FASTEN	IER SPECIFICATIO	N TABLE											
(ALL I	REFERENCES ARE TO	ASTM)		.									
	F468 2024-T4	A307	F593										
AGE "U"	F468 2024-T4	A307	A276 TYPE 304										
GULAR	F467 6061-T6	45.62	5504	-									
CKING	F467 2017-T4	A563	F594										
S	F468 2024-T4	F844	A480										
Р	A356-T6	N/A	N/A										
ſ	~		DOT										
	State of ALASKA	Alask STAND	N										
	SIGN CO	TO SIG											
	Adopted as an Ala Standard Plan	sка by: <u>Car</u> Caro	P.E.										
	Adoption Date: 07	7/30/2021	11.										
	Last Code and Stds By: LRG Date: 0	s. Review 07/30/202	-20										
	Next Code and Stan	ndards Revi	50/203I Ú	SATE	OFAL	21							
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