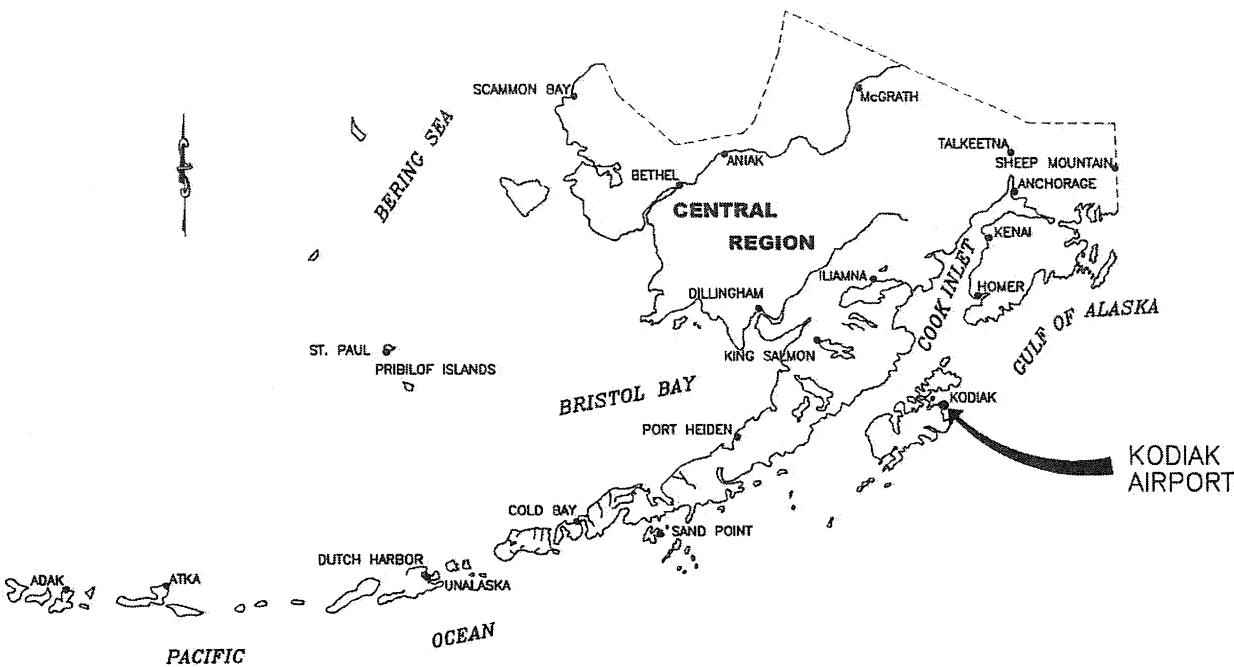
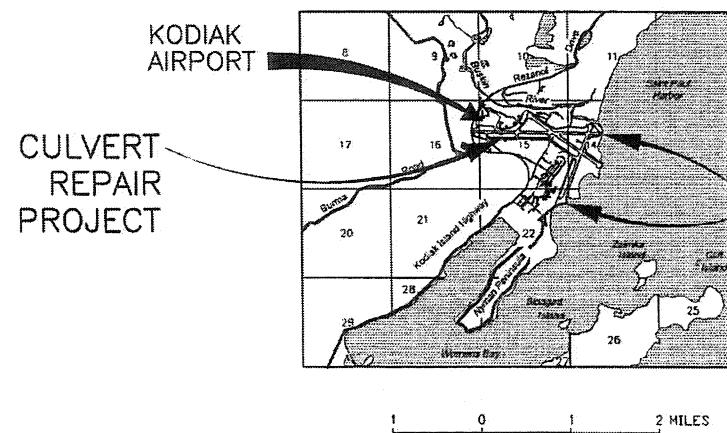


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ALASKA CENTRAL REGION LOCATION MAP

NOT TO SCALE



VICINITY MAP

T 28 S, R 20 W SEC. 14, 15, 16, 22 & 23
 SEWARD MERIDIAN
 U.S.G.S. KODIAK (C-2, D-2), ALASKA



PREPARED BY: HDR Alaska, Inc.

BY DATE

STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 AND PUBLIC FACILITIES
 CENTRAL REGION

KODIAK AIRPORT
 KODIAK, ALASKA

TITLES, SIGNATURES, LOCATION MAP
 AND VICINITY MAP

DATE:
 3/18/2014
 SHEET:
 A1 OF A1
 AS-BUILT SHEET:
 OF

KODIAK AIRPORT KODIAK, ALASKA KODIAK AIRPORT RSA EXTENSION PROJECT No. 53587 AIRPORT IMPROVEMENT PROGRAM No. 3-02-0158-017-2014

DEVILS CREEK CULVERT REPAIR PROJECT No. 57474 AIRPORT IMPROVEMENT PROGRAM No. 3-02-0158-01X-201

CENTRAL REGION AS-ADVERTISED APRIL, 2014

CONCUR

JOEL ST. AUBIN, P.E.

DATE 3/27/2014

DIRECTOR OF DESIGN AND CONSTRUCTION

APPROVED

KENNETH M. MORTON, P.E.

DATE 3/26/2014

REGIONAL PRECONSTRUCTION ENGINEER

APPROVED

WOLFGANG E. JUNGE, P.E.

DATE 3/25/14

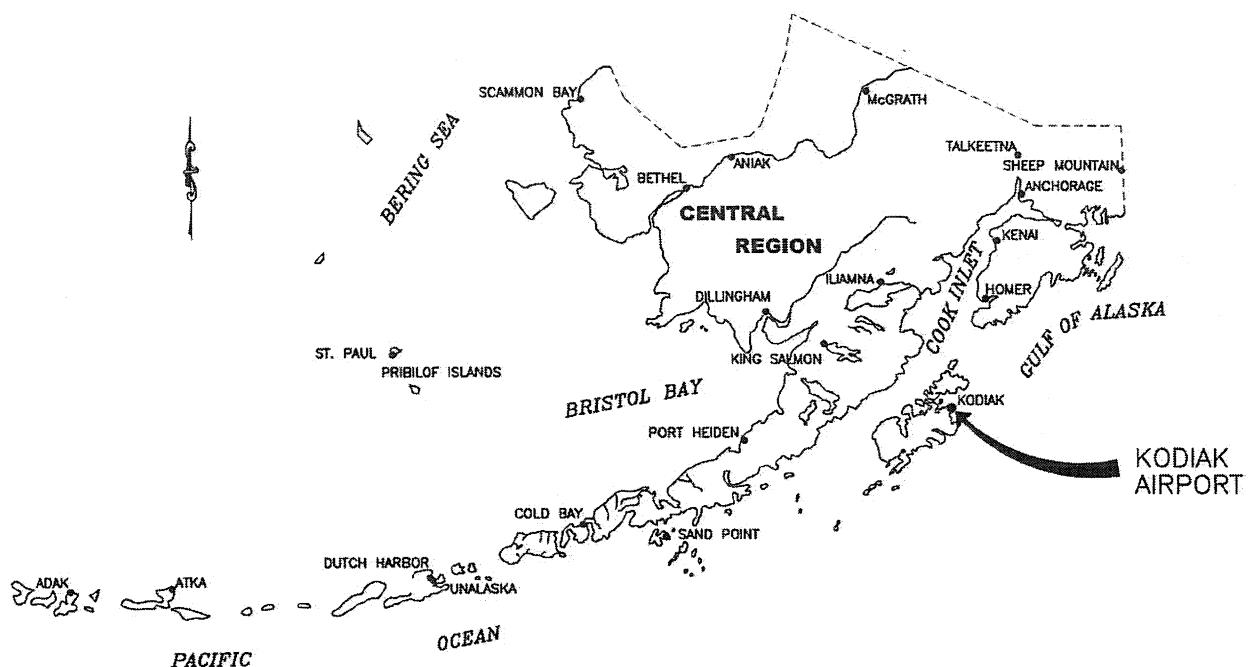
DESIGN SECTION CHIEF

APPROVED

MORGAN MERRITT, P.E.

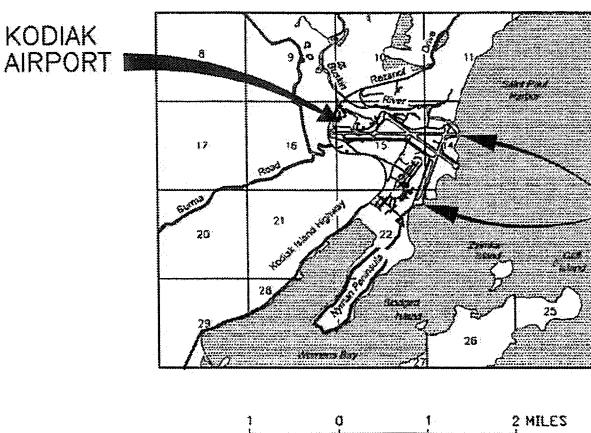
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PROJECT MANAGER



ALASKA CENTRAL REGION LOCATION MAP

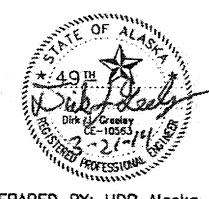
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THIS PROJECT

VICINITY MAP

T 28 S. R 20 W SEC. 14, 15, 16, 22 & 23
SEWARD MERIDIAN
U.S.G.S. KODIAK (C-2, D-2), ALASKA



PREPARED BY: HDR Alaska, Inc.

Inc.	BY	DATE	REVISION

**STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
CENTRAL REGION**

KODIAK AIRPORT
KODIAK, ALASKA
KODIAK AIRPORT RSA EXTENSION, 2014
PROJECT No. 53587
AIP No. 3-02-0158-017-2014
TITLES, SIGNATURES, LOCATION MAP
AND VICINITY MAP

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INDEX	2	MARKING PLAN RUNWAY END 25	35	<u>APPENDIX D</u>	
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PREPARED BY: HDR Alaska, Inc.

BY	DATE	REVISION

STATE OF ALASKA
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CENTRAL REGION

KODIAK AIRPORT
KODIAK, ALASKA
KODIAK AIRPORT RSA EXTENSION, 2014
PROJECT No. 53587
AIP No. 3-02-0158-017-2014

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LEGEND			ABBREVIATIONS			ABBREVIATIONS		
DESCRIPTION	EXISTING	PROPOSED						
AIRCRAFT TIE-DOWNS			AOA	AIRCRAFT OPERATIONS AREA		RT	RIGHT OFFSET	
BUILDING			ARFF	AIRPORT RESCUE FIRE FIGHTING		RW	RUNWAY	
CONSTRUCTION LICENSE BOUNDARY			ASDA	ACCELERATE STOP DISTANCE AVAILABLE		SD	STORM DRAIN	
CONTROL BOX			ATCT	AIR TRAFFIC CONTROL TOWER		S.F.	SQUARE FEET	
CULVERT			AWOS	AUTOMATED WEATHER OBSERVING SYSTEM		SPCD	SAFETY PLAN COMPLIANCE DOCUMENT	
DITCH WITH DRAINAGE FLOW DIRECTION			CABC	CRUSHED AGGREGATE BASE COURSE		SS	SANITARY SEWER	
EDGE OF PAVEMENT			CAU	CONCRETE ARMOR UNIT		STA	STATION	
FENCE			CL	CENTER LINE		TODA	TAKE OFF DISTANCE AVAILABLE	
GEOTEXTILE SEPARATION			1lb./cu.ft.	POUND PER CUBIC FOOT		TORA	TAKE OFF RUN AVAILABLE	
GRADE BREAK			C.S.	CONTINGENT SUM		TW	TAXIWAY	
LEASE LOT BOUNDARY			CSPP	CONSTRUCTION SAFETY PHASING PLAN		OFA	OBJECT FREE AREA	
MEAN HIGH WATER			C.Y.	CUBIC YARD		OFZ	OBJECT FREE ZONE	
EXISTING GROUND			E	EASTING		OHE	OVERHEAD ELECTRIC	
OBJECT FREE AREA			ELEV	ELEVATION		UGE	UNDERGROUND ELECTRIC	
OBJECT FREE ZONE			EMAS	ENGINEERED MATERIAL ARRESTING SYSTEM		UGTel	UNDERGROUND TELECOMMUNICATIONS	
PAPI			EOP	EDGE OF PAVEMENT		USCG	UNITED STATES COAST GUARD	
PAVEMENT MARKING			FASBC	FOAMED ASPHALT STABILIZED BASE COURSE		VASI	VISUAL APPROACH SLOPE INDICATOR	
PROJECT EARTHWORK AND GRADING LIMITS			FOD	FOREIGN OBJECT DEBRIS/ FOREIGN OBJECT DAMAGE		Wx	WEATHER	
PROPERTY BOUNDARY			GB	GRADE BREAK				
REIL			HDPE	HIGH DENSITY POLYETHYLENE				
RIPRAP / ARMOR			HMA	HOT MIXED ASPHALT				
ROADWAY			LDA	LANDING DISTANCE AVAILABLE				
ROTATING BEACON			L.F.	LINEAR FOOT				
RUNWAY DISPLACED THRESHOLD LIGHT			L.S.	LUMP SUM				
RUNWAY EDGE LIGHT			LT	LEFT OFFSET				
RUNWAY FLUSH MOUNT LIGHT			MHW	MEAN HIGH WATER				
RUNWAY PROTECTION ZONE			MPH	MILES PER HOUR				
RUNWAY SAFETY AREA			N	NORTHING				
RUNWAY THRESHOLD MARKERS			N.T.S.	NOT TO SCALE				
SIGN			RAP	RECYCLED ASPHALT PAVEMENT				
SLOPE VALUE AND DIRECTION			RPZ	RUNWAY PROTECTION ZONE				
SPOT ELEVATION			RSA	RUNWAY SAFETY AREA				
TOE OF SLOPE								
FILL								
CUT								
VASI								
WIND CONE UNLIGHTED								
WIND CONE AND SEGMENTED CIRCLE								



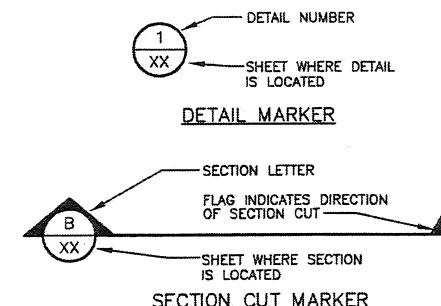
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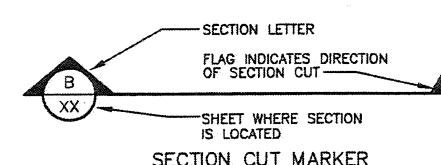
STATE OF ALASKA
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AND PUBLIC FACILITIES
CENTRAL REGION

KODIAK AIRPORT
KODIAK, ALASKA
KODIAK AIRPORT RSA EXTENSION, 2014
PROJECT No. 53587
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LEGEND AND ABBREVIATIONS

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DETAIL MARKER



SECTION CUT MARKER

ESTIMATED QUANTITIES					ESTIMATING FACTORS				
No.	ITEM	UNIT	QUANTITY	No.	ITEM	UNIT	QUANTITY	ITEM DESCRIPTION	ESTIMATING FACTOR
D-701a(1)	PE PIPE, 18"	L.F.	50	P-152i(1)	BORROW (<6% NO. 200)	TON	505000	HOT MIX ASPHALT	150 lb./cu.ft.
D-701a(2)	PE PIPE, 24"	L.F.	54	P-152i(2)	BORROW (<10% NO. 200)	TON	675800	ASPHALT CEMENT	5.5%
G-100a	MOBILIZATION AND DEMOBILIZATION	L.S.	ALL REQ'D	P-152r	SUBGRADE PREPARATION	S.Y.	9600	CRUSHED AGGREGATE BASE COURSE	145 lb./cu.ft.
G-115a	WORKER MEALS AND LODGING, OR PER DIEM	L.S.	ALL REQ'D	P-154b	SUBBASE COURSE	TON	73500	SUBBASE	142 lb./cu.ft.
G-130a	FIELD OFFICE	L.S.	ALL REQ'D	P-157a	EROSION, SEDIMENT, AND POLLUTION CONTROL ADMINISTRATION	L.S.	ALL REQ'D	ARMOR STONE	1.6 ton/cu.yd.
G-130b	FIELD LABORATORY	L.S.	ALL REQ'D	P-157b	TEMPORARY EROSION, SEDIMENT, AND POLLUTION CONTROL	C.S.	ALL REQ'D	UNDERLAYER STONE	1.6 ton/cu.yd.
G-130g	NUCLEAR TESTING EQUIPMENT STORAGE SHED	EACH	1	P-157f	WITHHOLDING	C.S.	ALL REQ'D	SLOPE LINING	130 lb/cu.ft.
G-130h	STORAGE CONTAINER	EACH	1	P-157g	SWPPP MANAGER	L.S.	ALL REQ'D		
G-130j	ENGINEERING COMMUNICATIONS	C.S.	ALL REQ'D	P-161b	RECYCLED ASPHALT PAVEMENT	C.Y.	2600		
G-131a	ENGINEERING TRANSPORTATION (TRUCK)	EACH	6	P-162a	PAVEMENT COLD PLANING	S.Y.	3200		
G-135a	CONSTRUCTION SURVEYING BY THE CONTRACTOR	L.S.	ALL REQ'D	P-165a(1)	REMOVAL OF STRUCTURES (RSA EXTENSION)	L.S.	ALL REQ'D		
G-135b	EXTRA THREE PERSON SURVEYING PARTY	HOUR	50	P-181a	CONCRETE ARMOR UNITS (2.65 TON)	EACH	2600		
G-150a	EQUIPMENT RENTAL, DOZER (70hp MINIMUM)	HOUR	50	P-185a	PRIMARY ARMOR STONE (PA-12000)	TON	81700		
G-200a	CONTRACTOR QUALITY CONTROL PROGRAM	L.S.	ALL REQ'D	P-185b	UNDERLAYER STONE (U-700)	TON	41000		
G-300a	CPM SCHEDULING	L.S.	ALL REQ'D	P-189b	GABIONS (STAINLESS STEEL)	C.Y.	940		
G-700a	AIRPORT FLAGGER	C.S.	ALL REQ'D	P-209b	CRUSHED AGGREGATE BASE COURSE	TON	5400		
G-710a	HIGHWAY TRAFFIC MAINTENANCE	L.S.	ALL REQ'D	P-401a	HOT MIX ASPHALT, TYPE II, Class A	TON	5300		
G-710b	HIGHWAY FLAGGER	C.S.	ALL REQ'D	P-401b	HOT MIX ASPHALT PRICE ADJUSTMENT	C.S.	ALL REQ'D		
G-710c	HIGHWAY TRAFFIC PRICE ADJUSTMENT	C.S.	ALL REQ'D	P-401c	ASPHALT CEMENT, PG 52-28	TON	295		
G-710d	HIGHWAY TRAFFIC CONTROL	C.S.	ALL REQ'D	P-555a(1)	INSTALL EMAS BED (RUNWAY 7)	L.S.	ALL REQ'D		
G-715c	WILDLIFE MONITORING	C.S.	ALL REQ'D	P-555a(2)	INSTALL EMAS BED (RUNWAY 36)	L.S.	ALL REQ'D		
L-100c(1)	HIGH INTENSITY RUNWAY EDGE AND THRESHOLD LIGHT, L-862 and L-862E	EACH	21	P-556a	EMAS SNOW REMOVAL EQUIPMENT (TYPE I)	EACH	1		
L-100c(2)	HIGH INTENSITY RUNWAY EDGE AND THRESHOLD LIGHT LENS, L-862 and L-862E	EACH	3	P-603a	TACK COAT, STE-1	TON	5		
L-100e	TAXIWAY EDGE LIGHT, L-861T	EACH	22	P-620c	RUNWAY AND TAXIWAY PAINTING	L.S.	ALL REQ'D		
L-100h	REMOVE RUNWAY AND TAXIWAY LIGHT	EACH	41	P-620f	PAINTED MARKING REMOVAL	L.S.	ALL REQ'D		
L-100n	AIRPORT SIGN, Type L-858	EACH	4	P-621b	SAW-CUT GROOVES	L.S.	ALL REQ'D		
L-100r	TEMPORARY RUNWAY LIGHTING SYSTEM	L.S.	ALL REQ'D	P-640b	SEGMENTED CIRCLE (PANEL TYPE)	L.S.	ALL REQ'D		
L-100ap	SPARE PARTS	L.S.	ALL REQ'D	P-670b	FLASHER UNIT FOR TIMBER BARRIER	EACH	75		
L-107a	8-FOOT LIGHTED WIND CONE, IN PLACE	EACH	1	P-670c	FLAG	EACH	75		
L-108a	UNDERGROUND CABLE #8 AWG, COPPER, 5KV FAA TYPE "C", L-824	L.F.	3250	P-671c	ILLUMINATED RUNWAY CLOSURE MARKER	EACH	2		
L-108c	# 6 BARE COPPER GROUND CONDUCTOR	L.F.	2850	P-684a	FLOATING SILT CURTAIN	L.F.	4100		
L-108g	GROUND ROD	EACH	5						
L-110a	2-INCH RIGID STEEL CONDUIT	L.F.	435						
L-110g	2-INCH PE CONDUIT	L.F.	2250						
L-135k	FOUNDATION AND UTILITIES FOR FAA EQUIPMENT	L.S.	ALL REQ'D						
P-151b	CLEARING	L.S.	ALL REQ'D						
P-152ak	SLOPE LINING	TON	500						

Designed By: D.G.
Drawn By: L.W.
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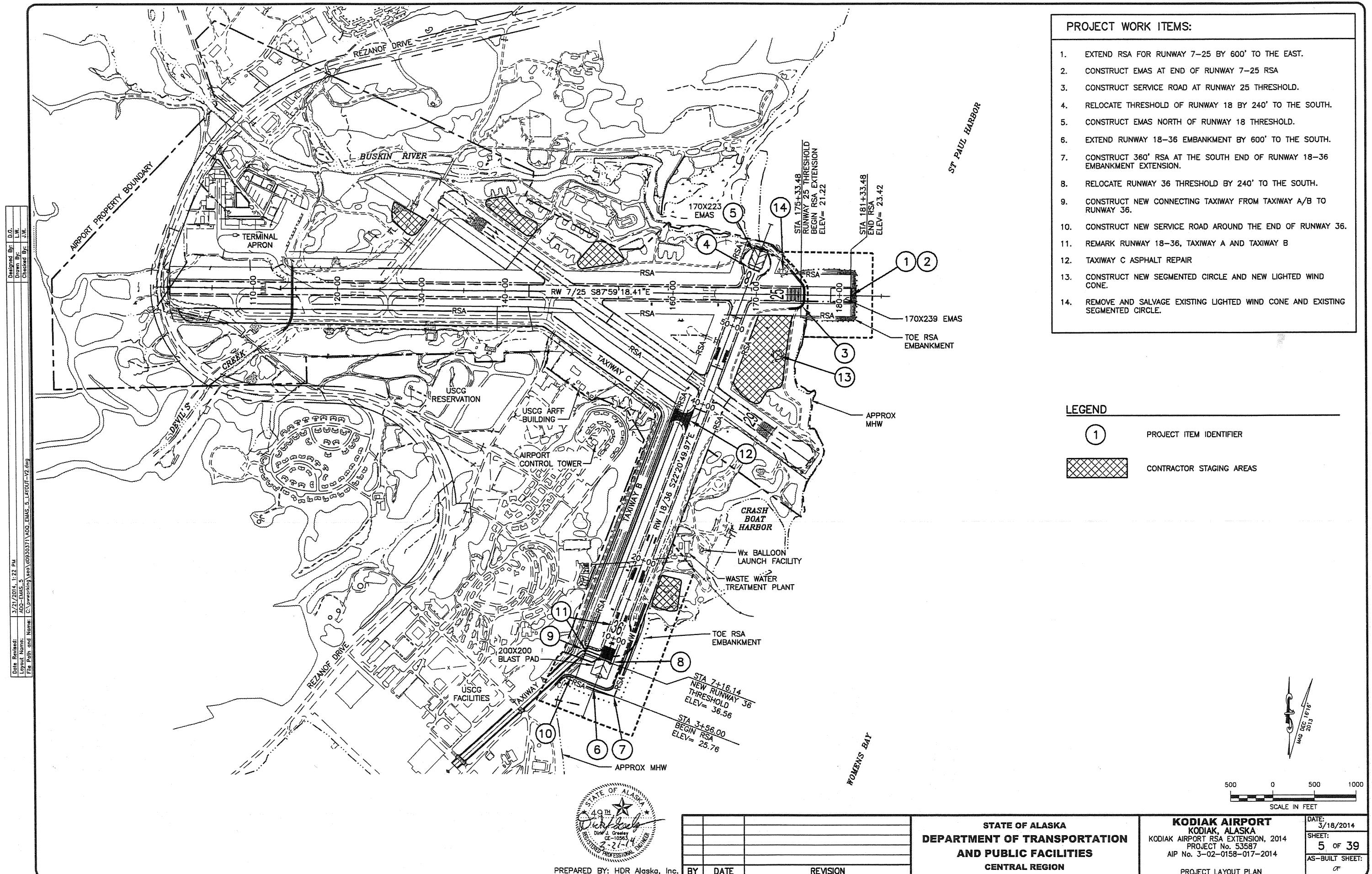
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BY	DATE	REVISION

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DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
CENTRAL REGION

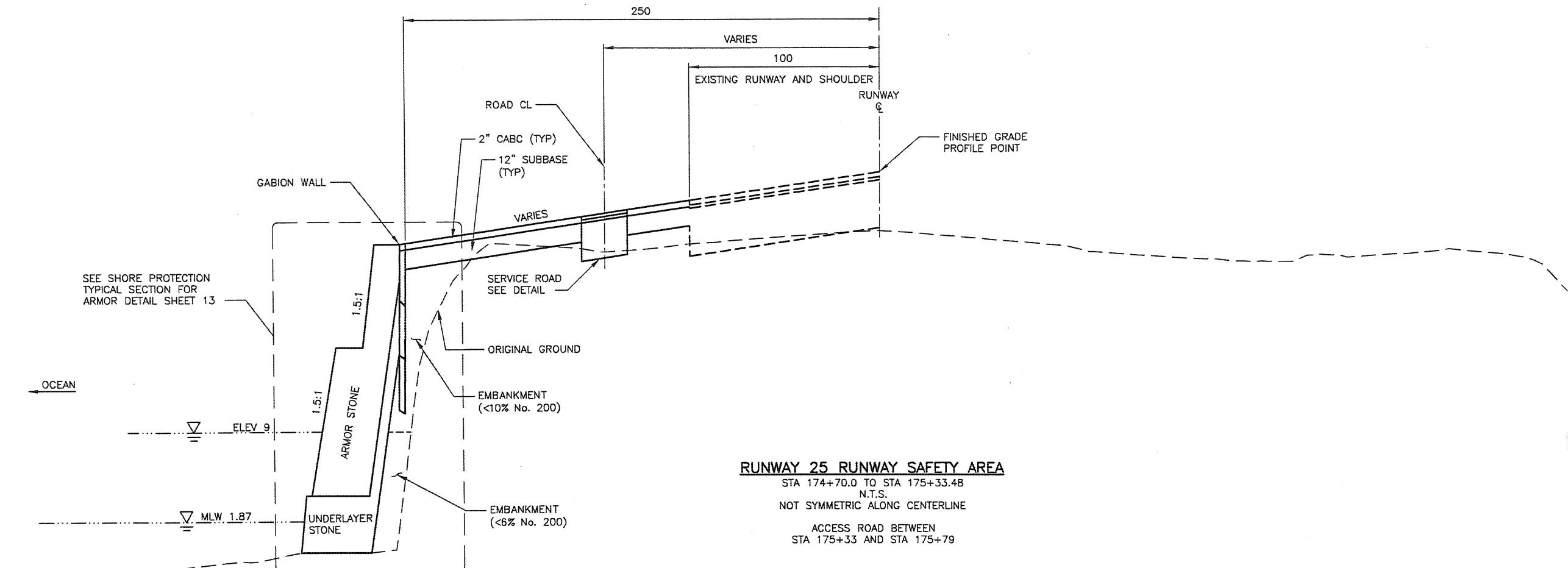
KODIAK AIRPORT
KODIAK, ALASKA
KODIAK AIRPORT RSA EXTENSION, 2014
PROJECT No. 53587
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ESTIMATED QUANTITIES
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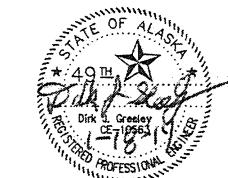
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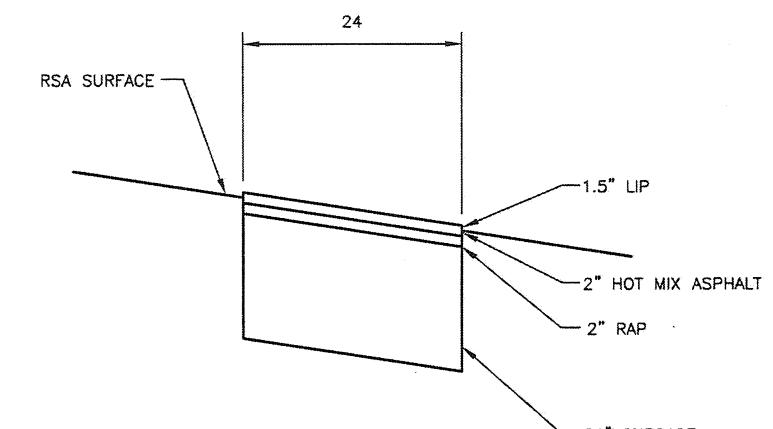
RSA CROSS SLOPE TRANSITION TABLE			
BEGIN TRANSITION			END TRANSITION
STA 175+33.48	STA 176+33.48	STA 176+83.48	STA 177+33.48
-1.5% ● -1.5%	-0.5% ● -0.5%	0.0% ● -0.5%	+0.5% ● -0.5%

● = POINT OF ROTATION AT CENTERLINE

COMPACTION REQUIREMENTS			
	UNDER PAVED AREAS	UNDER UNPAVED AREAS	IN WATER
HOT MIX ASPHALT	95%	-	-
SUBBASE	100%	95%	-
CABC	100%	COMPACTIVE EFFORT	-
RAP	98%	98%	-
BORROW <10%	100%	95%	-
BORROW <6%	95%	95%	COMPACTIVE EFFORT



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SERVICE ROAD DETAIL

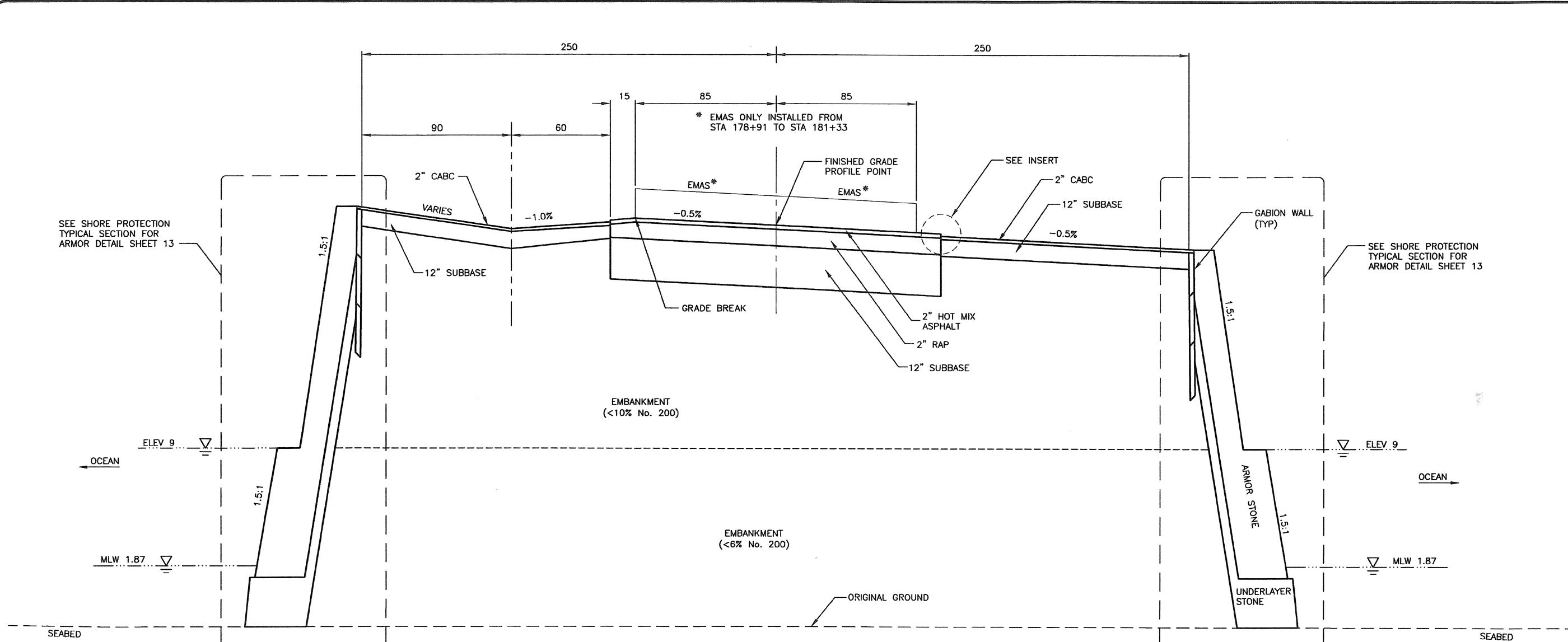
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
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KODIAK AIRPORT
KODIAK, ALASKA
KODIAK AIRPORT RSA EXTENSION, 2014
PROJECT No. 53587
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RUNWAY 25
TYPICAL SECTION

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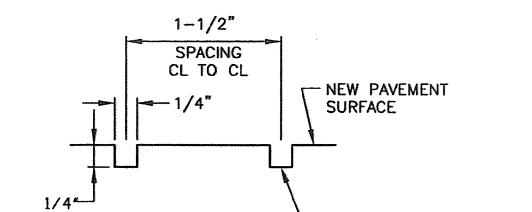
Designed By: D.G.
 Drawn By: L.W.
 Checked By: J.W.



COMPACTION REQUIREMENTS			
	UNDER PAVED AREAS	UNDER UNPAVED AREAS	IN WATER
HOT MIX ASPHALT	95%	-	-
SUBBASE	100%	95%	-
CABC	100%	COMPACTIVE EFFORT	-
RAP	98%	98%	-
BORROW <10%	100%	95%	-
BORROW <6%	95%	95%	COMPACTIVE EFFORT

PROVIDE 1.5" LIP
BETWEEN PAVED SURFACE
AND UNPAVED SURFACE

INSERT



NOTE:
GROOVE ASPHALT BETWEEN STATIONS 175+33 AND 178+91.98
100' LEFT AND 100' RIGHT

PAVEMENT GROOVING DETAIL

NOTES:

- UNCLASSIFIED EXCAVATION WILL NOT BE MEASURED FOR PAYMENT BUT CONSIDERED SUBSIDIARY TO OTHER ITEMS.
- ORIGINAL GROUND MAY VARY FROM THAT DEPICTED IN TYPICAL SECTIONS.
- IF RAP QUANTITIES ARE INSUFFICIENT CABC USED AS DIRECT REPLACEMENT INCH FOR INCH.
- SEE SHEET 21 FOR RSA SURFACE GRADING.



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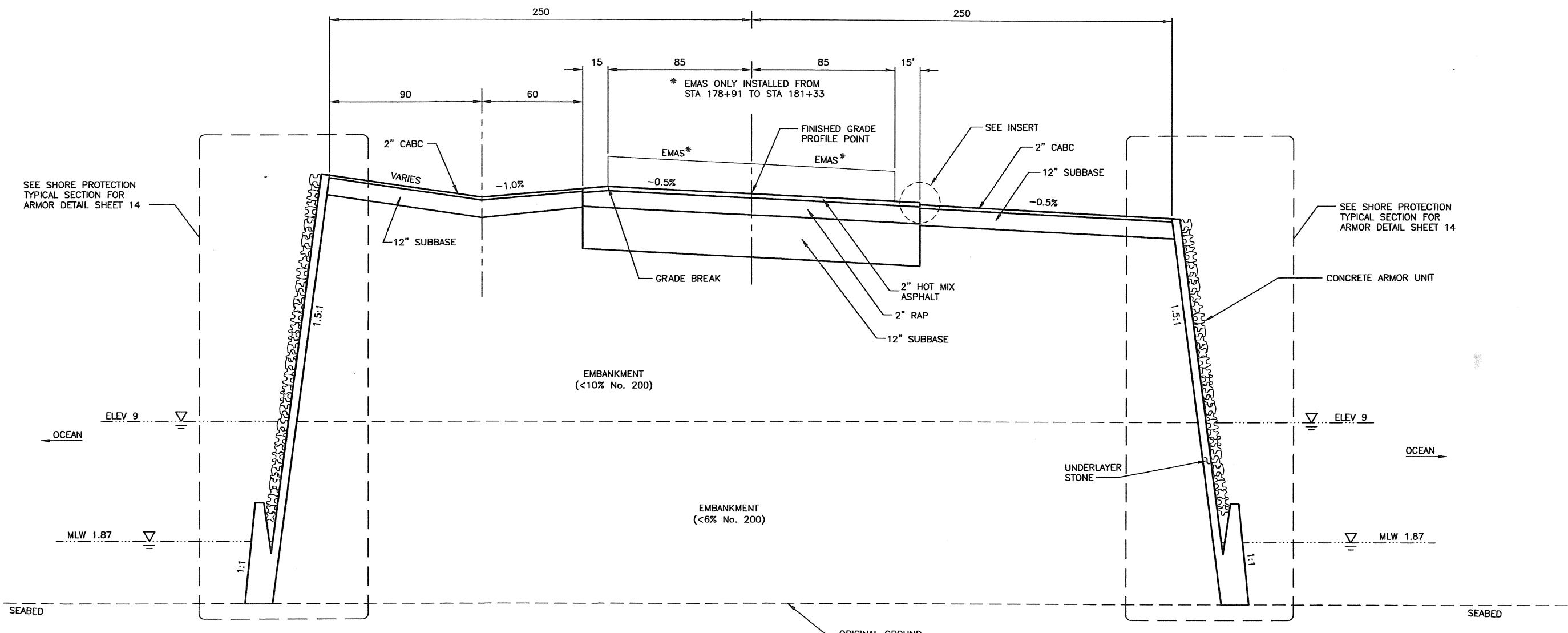
BY	DATE	REVISION

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KODIAK AIRPORT
 KODIAK, ALASKA
 KODIAK AIRPORT RSA EXTENSION, 2014
 PROJECT No. 53587
 AIP No. 3-02-0158-017-2014
 RUNWAY 25
 TYPICAL SECTION

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RUNWAY 25 RUNWAY SAFETY AREA

STA 179+72.0 TO STA 181+48.48
 N.T.S.
 NOT SYMMETRIC ALONG CENTERLINE

1.5"

PROVIDE 1.5" LIP
 BETWEEN PAVED SURFACE
 AND UNPAVED SURFACE

INSERT

NOTES:

1. UNCLASSIFIED EXCAVATION WILL NOT BE MEASURED FOR PAYMENT BUT CONSIDERED SUBSIDIARY TO OTHER ITEMS.
2. ORIGINAL GROUND MAY VARY FROM THAT DEPICTED IN TYPICAL SECTIONS.
3. IF RAP QUANTITIES ARE INSUFFICIENT CABC USED AS DIRECT REPLACEMENT INCH FOR INCH.
4. SEE SHEET 21 FOR RSA SURFACE GRADING.
5. TRANSITION CONCRETE ARMOR UNIT TYPICAL SECTION FROM STA 180+22 TO STA 179+72 BY INCREASING THICKNESS OF UNDERLAYER STONE TO BRING TO FACE OF CONCRETE ARMOR UNITS FLUSH WITH FACE OF ARMOR STONE.

COMPACTION REQUIREMENTS			
	UNDER PAVED AREAS	UNDER UNPAVED AREAS	IN WATER
HOT MIX ASPHALT	95%	-	-
SUBBASE	100%	95%	-
CABC	100%	COMPACTIVE EFFORT	-
RAP	98%	98%	-
BORROW <10%	100%	95%	-
BORROW <6%	95%	95%	COMPACTIVE EFFORT



PREPARED BY: HDR Alaska, Inc.

BY	DATE	REVISION

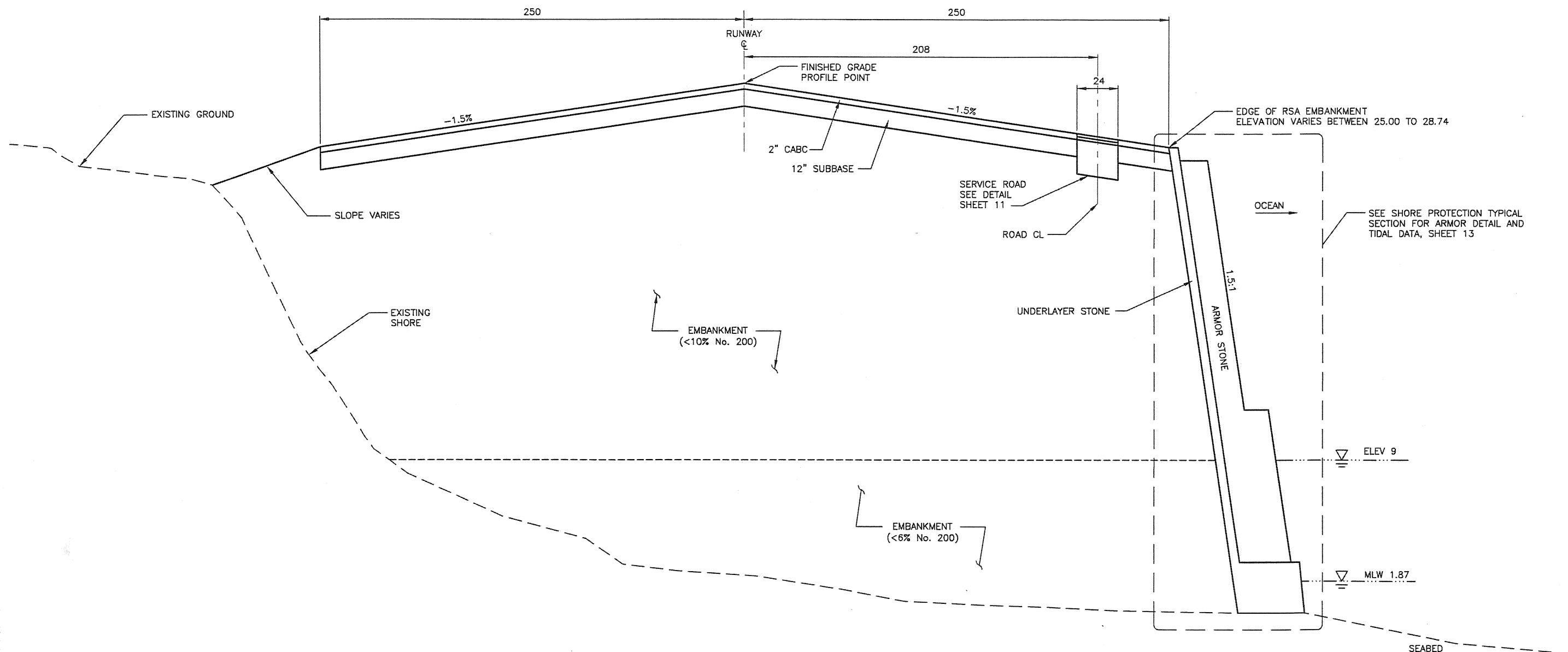
STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 AND PUBLIC FACILITIES
 CENTRAL REGION

KODIAK AIRPORT
 KODIAK, ALASKA
 KODIAK AIRPORT RSA EXTENSION, 2014
 PROJECT No. 53587
 AIP No. 3-02-0158-017-2014
 RUNWAY 25
 TYPICAL SECTION

DATE:
 3/26/2014
 SHEET:
 8 OF 39
 AS-BUILT SHEET:
 OF

Designed By: D.G.
Drawn By: D.G.
Checked By: J.W.

Date Revised: 3/17/2014, 2:32 PM
Layout Number: 9-TypSec
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COMPACTION REQUIREMENTS			
	UNDER PAVED AREAS	UNDER UNPAVED AREAS	IN WATER
HOT MIX ASPHALT	95%	-	-
SUBBASE	100%	95%	-
CABC	100%	COMPACTIVE EFFORT	-
RAP	98%	98%	-
BORROW <10%	100%	95%	-
BORROW <6%	95%	95%	COMPACTIVE EFFORT

RUNWAY 36 RUNWAY SAFETY AREA

STA 3+56.00 TO STA 5+16.00
N.T.S.
NOT SYMMETRIC ALONG CENTERLINE

NOTES:

1. UNCLASSIFIED EXCAVATION WILL NOT BE MEASURED FOR PAYMENT BUT CONSIDERED SUBSIDIARY TO OTHER ITEMS.
2. ORIGINAL GROUND MAY VARY FROM THAT DEPICTED IN TYPICAL SECTIONS.
3. IF RAP QUANTITIES ARE INSUFFICIENT CABC USED AS DIRECT REPLACEMENT INCH FOR INCH.



PREPARED BY: HDR Alaska, Inc.

BY	DATE	REVISION

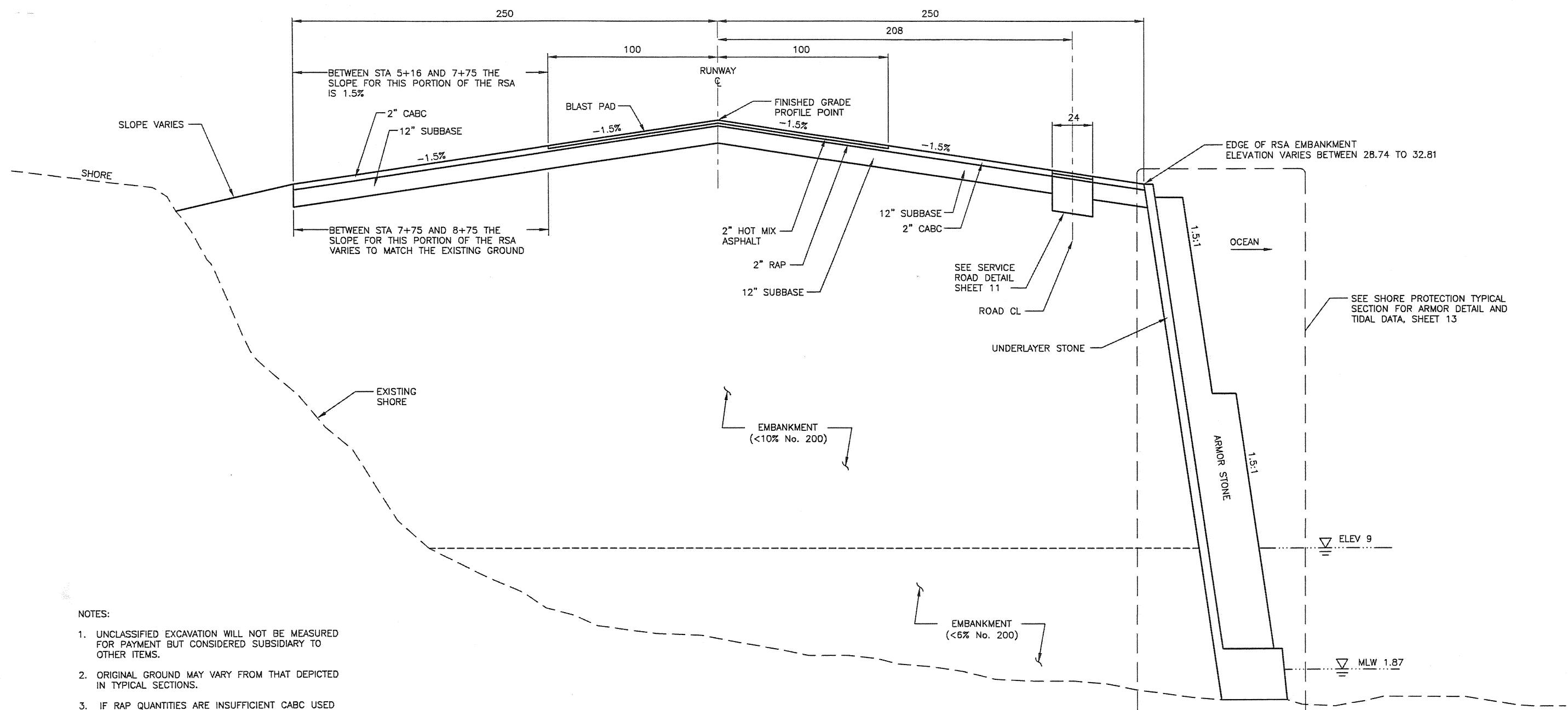
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
CENTRAL REGION

KODIAK AIRPORT
KODIAK, ALASKA
KODIAK AIRPORT RSA EXTENSION, 2014
PROJECT No. 53587
AIP No. 3-02-0158-017-2014
RUNWAY 36
TYPICAL SECTIONS

DATE: 3/18/2014
SHEET: 9 OF 39
AS-BUILT SHEET: OF

Designed By: D.G.
Drawn By: D.G.
Checked By: J.W.

Date Revised: 3/17/2014 2:32 PM
Layout Name: 10-122 Sec
File Path and Name: C:\Users\Aport\Downloads\Kodiak\Temp\AcP\Publsh_7784VADD_EMAS_6-15_TypSecting



NOTES:

- UNCLASSIFIED EXCAVATION WILL NOT BE MEASURED FOR PAYMENT BUT CONSIDERED SUBSIDIARY TO OTHER ITEMS.
- ORIGINAL GROUND MAY VARY FROM THAT DEPICTED IN TYPICAL SECTIONS.
- IF RAP QUANTITIES ARE INSUFFICIENT CABC USED AS DIRECT REPLACEMENT INCH FOR INCH.

COMPACTION REQUIREMENTS			
	UNDER PAVED AREAS	UNDER UNPAVED AREAS	IN WATER
HOT MIX ASPHALT	95%	-	-
SUBBASE	100%	95%	-
CABC	100%	COMPACTIVE EFFORT	-
RAP	98%	98%	-
BORROW <10%	100%	95%	-
BORROW <6%	95%	95%	COMPACTIVE EFFORT

RUNWAY 36 RUNWAY SAFETY AREA
STA 5+16.00 TO STA 8+75.0
N.T.S.
NOT SYMMETRIC ALONG CENTERLINE



PREPARED BY: HDR Alaska, Inc.

BY	DATE	REVISION

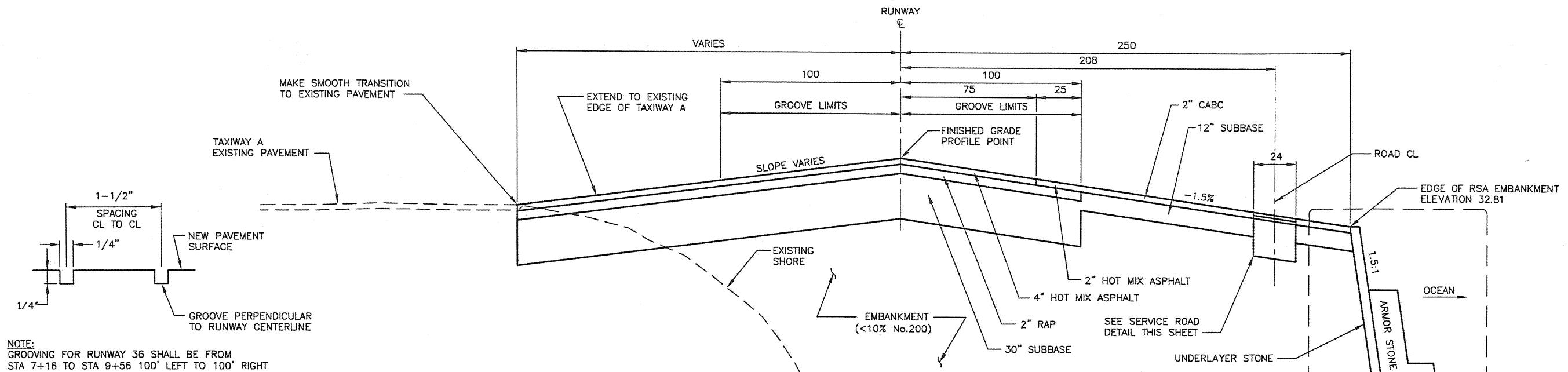
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
CENTRAL REGION

KODIAK AIRPORT
KODIAK, ALASKA
KODIAK AIRPORT RSA EXTENSION, 2014
PROJECT No. 53587
AIP No. 3-02-0158-017-2014
RUNWAY 36
TYPICAL SECTIONS

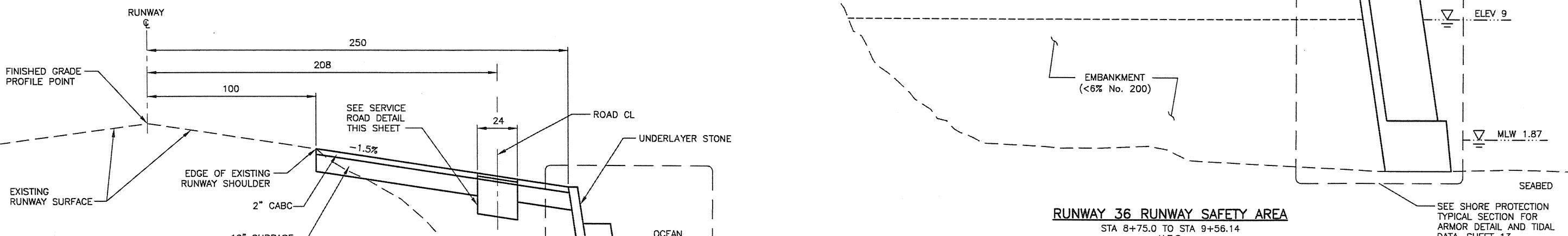
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3/18/2014
SHEET:
10 OF 39
AS-BUILT SHEET:
OF

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Drawn By: D.G.
Checked By: J.W.

Date Revised: 3/17/2014, 2:32 PM
Sheet No.: 11-Typ Sec
File Path and Name: C:\Users\Ivan\Downloads\Temp\AcPublish\7784 ADD EMAS-6-15_TypSec.dwg



PAVEMENT GROOVING DETAIL



RUNWAY 36 RUNWAY SAFETY AREA

STA 8+75.0 TO STA 9+56.14
N.T.S.
NOT SYMMETRIC ALONG CENTERLINE

RUNWAY 36 RUNWAY SAFETY AREA
STA 9+56 TO STA 13+75
N.T.S.
NOT SYMMETRIC ALONG CENTERLINE

NOTES:

1. UNCLASSIFIED EXCAVATION WILL NOT BE MEASURED FOR PAYMENT BUT WILL BE CONSIDERED SUBSIDIARY TO OTHER ITEMS.
2. ORIGINAL GROUND MAY VARY FROM THAT DEPICTED IN TYPICAL SECTIONS.
3. TRANSITION BETWEEN ALL NON-CONSECUTIVE TYPICAL SECTIONS.
4. IF RAP QUANTITIES ARE INSUFFICIENT CABC USED AS DIRECT REPLACEMENT INCH FOR INCH.

COMPACTON REQUIREMENTS			
	UNDER PAVED AREAS	UNDER UNPAVED AREAS	IN WATER
HOT MIX ASPHALT	95%	-	-
SUBBASE	100%	95%	-
CABC	100%	COMPACTIVE EFFORT	-
RAP	98%	98%	-
BORROW <10%	100%	95%	-
BORROW <6%	95%	95%	COMPACTIVE EFFORT



PREPARED BY: HDR Alaska, Inc.

BY

DATE

REVISION

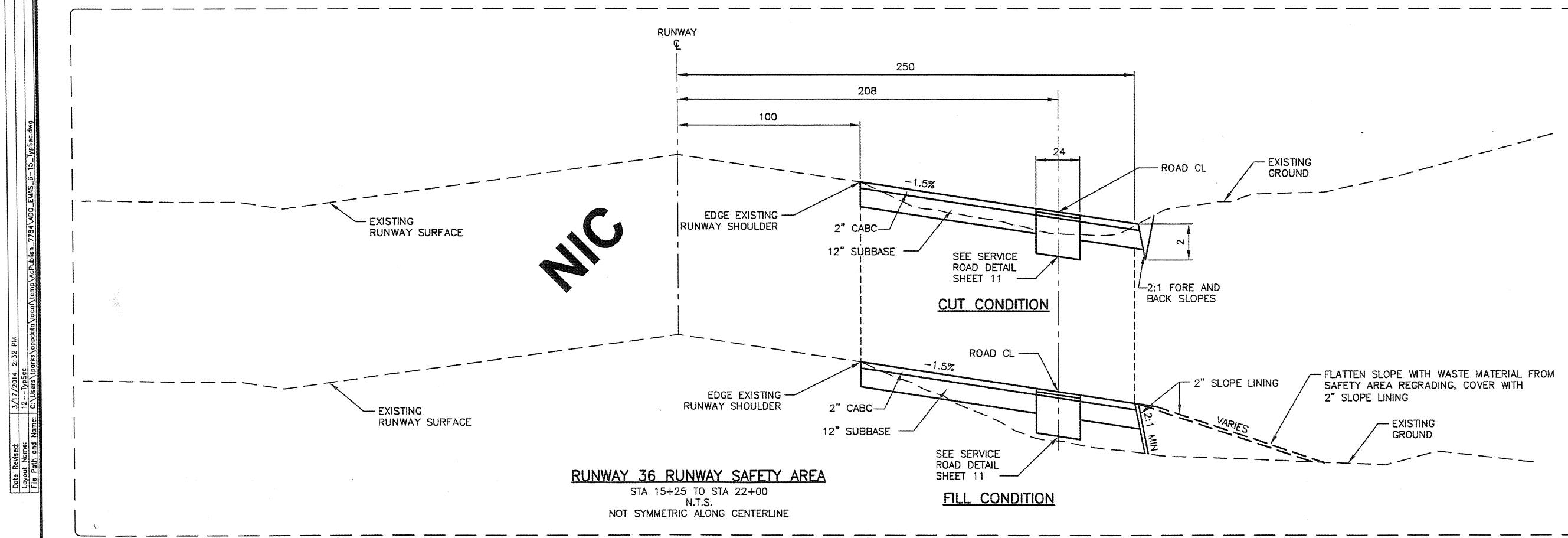
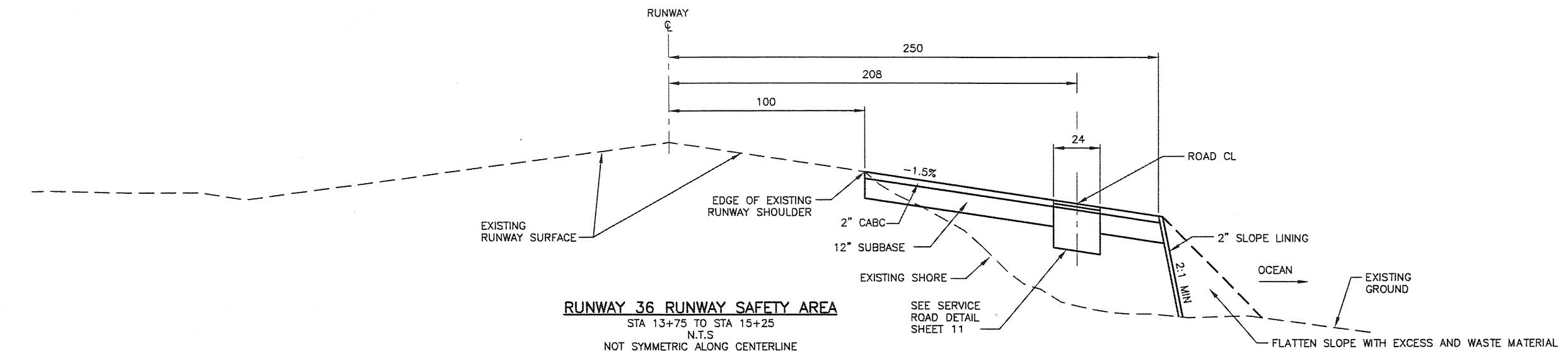
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
CENTRAL REGION

KODIAK AIRPORT
KODIAK, ALASKA
KODIAK AIRPORT RSA EXTENSION, 2014
PROJECT No. 53587
AIP No. 3-02-0158-017-2014
RUNWAY 36
TYPICAL SECTIONS

DATE: 3/18/2014
SHEET: 11 OF 39
AS-BUILT SHEET: OF

Designed By: D.G.
Drawn By: D.G.
Checked By: J.W.

Date Revised: 3/17/2014, 2:32 PM
Layout Name: 12-TwoSec
File Path and Name: C:\Users\Aparna\Downloads\Temp\AcPublish-7784\Add_EMS-6-15_TypSec.dwg



COMPACTIION REQUIREMENTS

	UNDER PAVED AREAS	UNDER UNPAVED AREAS	IN WATER
HOT MIX ASPHALT	95%	-	-
SUBBASE	100%	95%	-
CABC	100%	COMPACTIVE EFFORT	-
RAP	98%	98%	-
BORROW <10%	100%	95%	-
BORROW <5%	95%	95%	COMPACTIVE EFFORT



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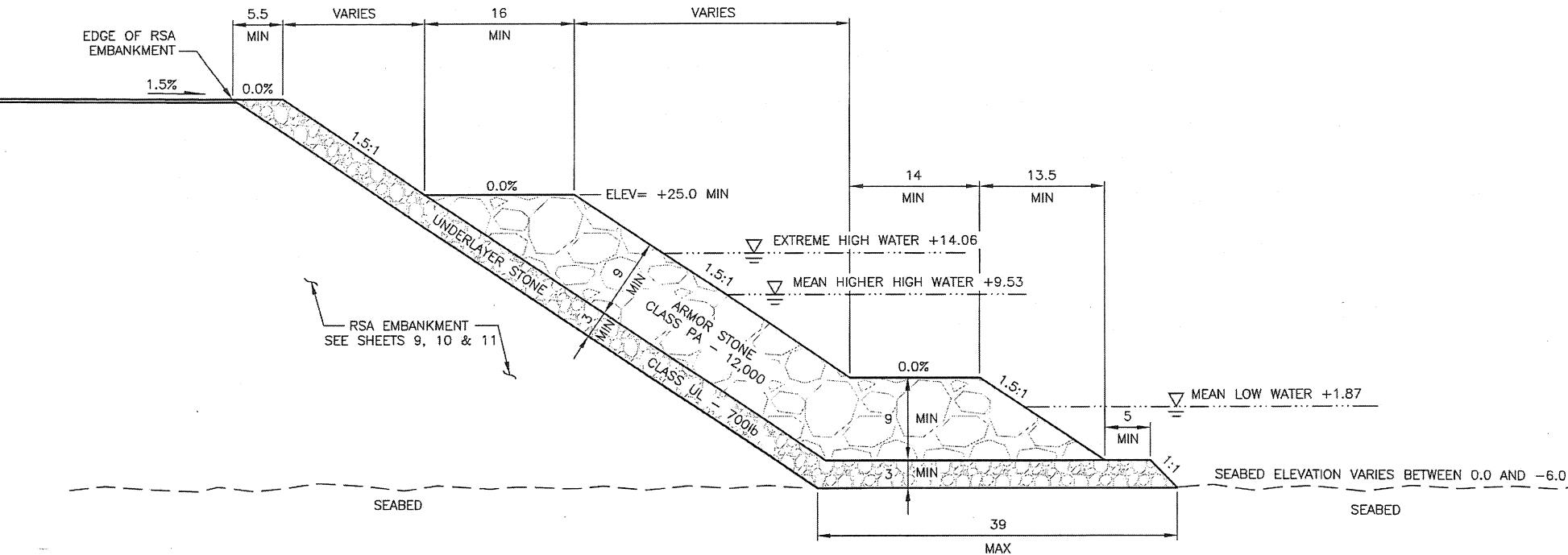
BY	DATE	REVISION

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
CENTRAL REGION

KODIAK AIRPORT
KODIAK, ALASKA
PROJECT No. 53587
AIP No. 3-02-0158-017-2014
RUNWAY 36
TYPICAL SECTIONS

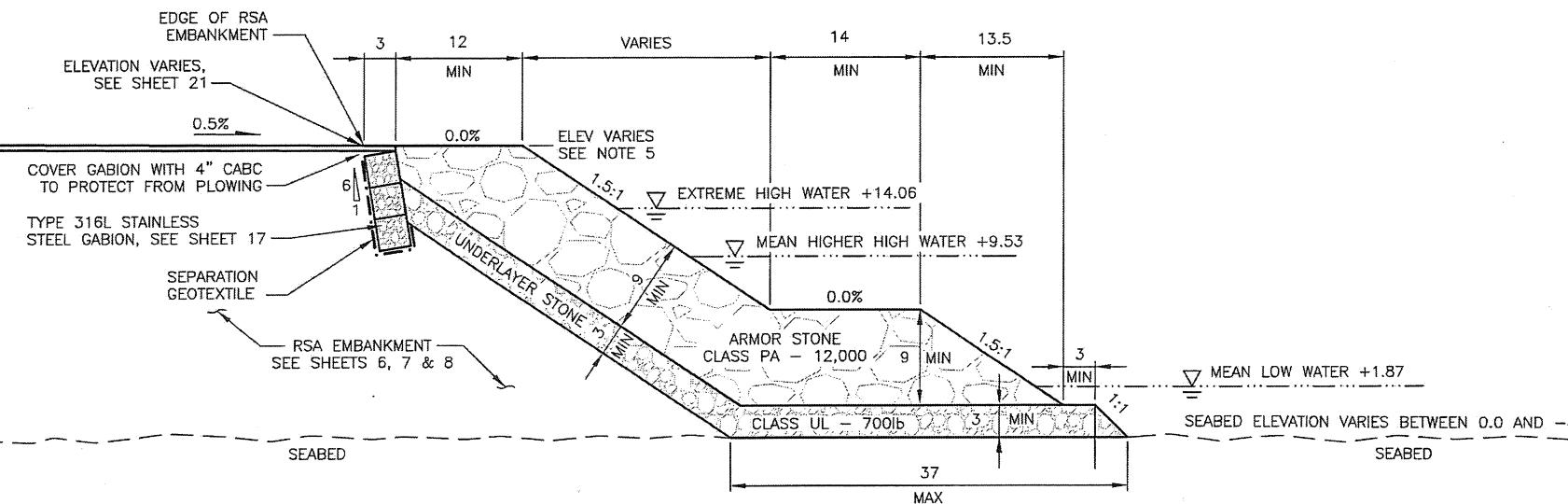
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SHEET:
12 OF 39
AS-BUILT SHEET:
OF

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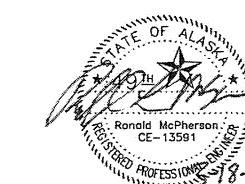
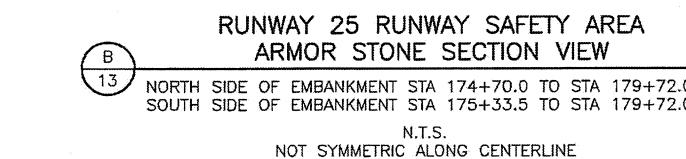
- ARMOR STONE MEDIAN STONE WEIGHT IS 12,000lb MIN. UNDERLAYER STONE MEDIAN STONE WEIGHT IS 700lb MIN. REFER TO SPECIFICATION SECTION "ITEM P-185 ARMOR STONE" FOR ADDITIONAL GRADATION AND STONE REQUIREMENTS.
- ARMOR STONE SHALL BE PLACED AND SPREAD IN SUCH A MANOR THAT THE VARIOUS STONE SIZES PRODUCE A RELATIVELY UNIFORM OUTER SURFACE AND A COMPLETED LAYER THAT IS A REASONABLY WELL GRADED COMPACT MASS OF ROCK.
- ARMOR STONE AND UNDERLAYER STONE PLACEMENT SHALL MAXIMIZE CONTACT BETWEEN INDIVIDUAL STONES ON ALL SIDES WITH EACH STONE HAVING AT LEAST THREE POINTS OF CONTACT WITH OTHER STONES.
- ELEVATIONS SHOWN ARE IN FEET, NAVD 88.
- CREST ELEVATION OF RUNWAY 25 ARMOR STONE SHALL MATCH ADJACENT EDGE OF RSA EMBANKMENT CREST ELEVATION.



TIDAL DATA:

TIDAL DATA RETRIEVED FROM THE NOAA CO-OPS WEBSITE AT ADDRESS
http://co-ops.nos.noaa.gov/station_retrieve.shtml?type=bench+mark+data+sheets
 for 9457292 KODIAK ISLAND, AK, (WOMENS BAY)
 PUBLICATION DATE: 09/12/2007
 TIME PERIOD: JAN. 2002 – DEC. 2006

THE NOAA TIDAL DATA WATER LEVELS ADJUSTED TO NAVD88 = 0.0 FEET AS FOLLOWS:		
EXTREME HIGH WATER	EHW	+14.06'
MEAN HIGH WATER	MHW	+8.63'
MEAN HIGHER HIGH WATER	MHHW	+9.53'
MEAN SEA LEVEL	MSL	+5.25'
MEAN TIDE LEVEL	MTL	+5.25'
MEAN LOW WATER	MLW	1.87'
MEAN LOWER LOW WATER	MLLW	+0.76'
NAVD88 DATUM ORIGIN		0.00'
EXTREME LOW WATER	ELW	-2.43'
		1/12/2005



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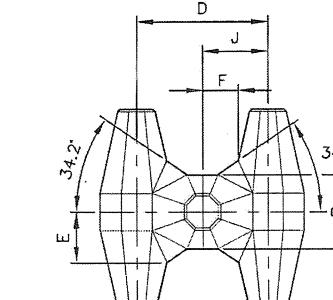
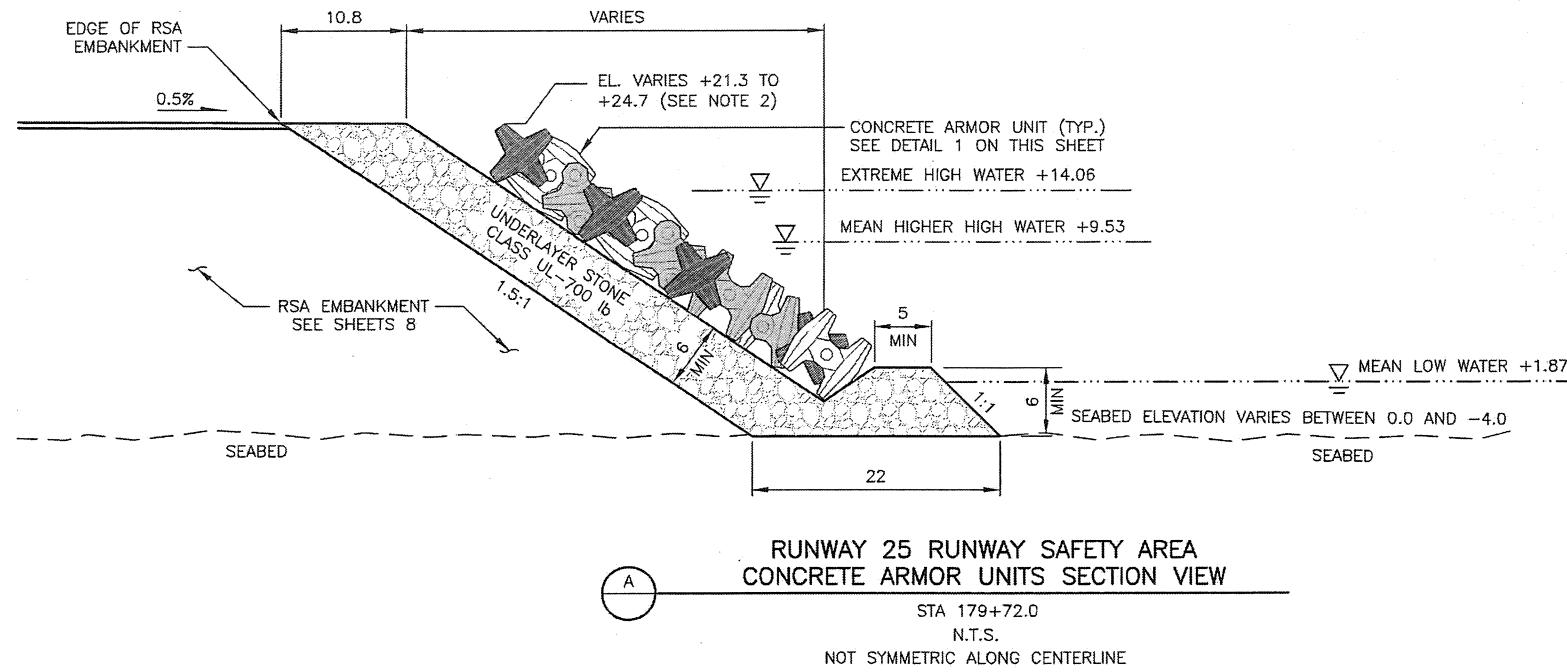
BY DATE REVISION

STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 AND PUBLIC FACILITIES
 CENTRAL REGION

KODIAK AIRPORT
 KODIAK, ALASKA
 KODIAK AIRPORT RSA EXTENSION, 2014
 PROJECT No. 53587
 AIP No. 3-02-0158-017-2014
 SHORE PROTECTION (ARMOR STONE)
 TYPICAL SECTIONS

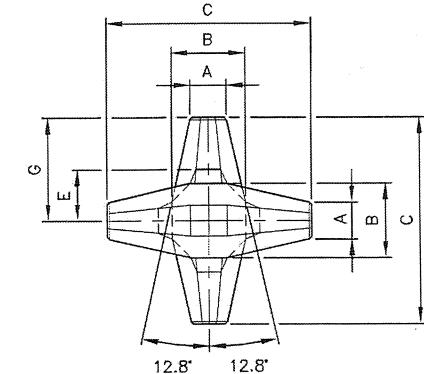
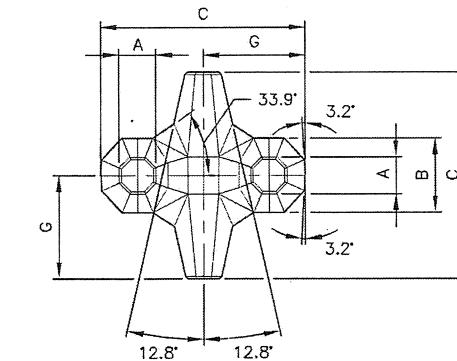
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 3/18/2014
 SHEET:
 13 OF 39
 AS-BUILT SHEET:
 OF

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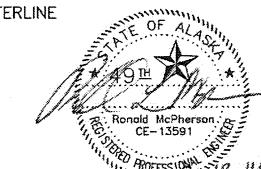
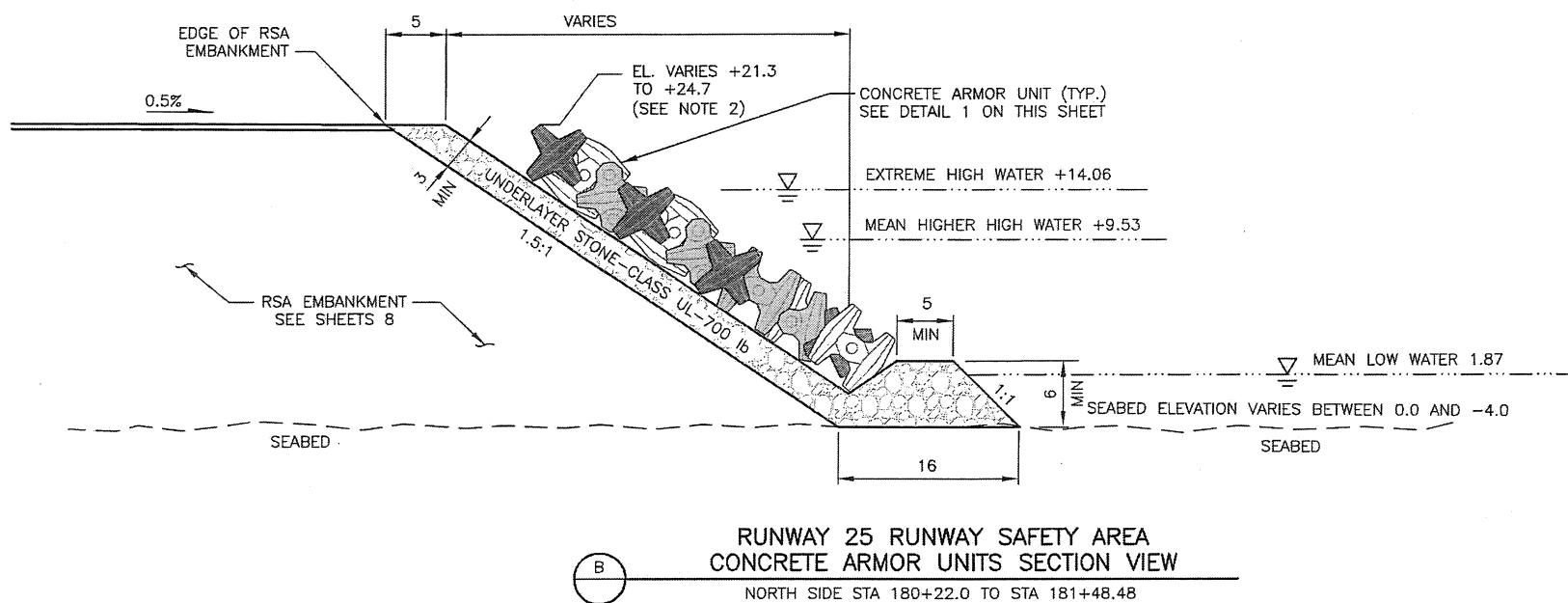


Concrete Armor Unit Minimum Dimensions						
	A	B	C	D	E	F
2.65 TON	0.971	1.953	5.426	3.472	1.346	0.949

UNDERLAYER STONE CONSISTS OF 700 LB. STONES



CONCRETE ARMOR UNIT DETAIL
N.T.S.



PREPARED BY: HDR Alaska, Inc.

BY	DATE	REVISION

STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 AND PUBLIC FACILITIES
 CENTRAL REGION

KODIAK AIRPORT
 KODIAK, ALASKA
 KODIAK AIRPORT RSA EXTENSION, 2014
 PROJECT No. 53587
 AIP No. 3-02-0158-017-2014
 SHORE PROTECTION (CAU)
 TYPICAL SECTIONS

DATE:
 3/18/2014
 SHEET:
 14 of 39
 AS-BUILT SHEET:
 ✓

NOTE:

1. FROM STATION 179+72 TO STATION 180+22 UNDERLAYER THICKNESS CONTINUOUSLY TRANSITIONS FROM 6 TO 3.
2. CREST ELEVATION OF CONCRETE ARMOR UNITS SHALL MATCH ADJACENT EDGE OF RSA EMBANKMENT CREST ELEVATION.
3. UNDERLAYER STONE MEDIAN STONE WEIGHT IS 700 lbs. REFER TO SPECIFICATION SECTION "ITEM P-185 ARMOR STONE" FOR ADDITIONAL GRADATION AND STONE REQUIREMENTS.
4. ARMOR STONE SHALL BE PLACED AND SPREAD IN SUCH A MANNER THAT THE VARIOUS STONE SIZES PRODUCE A RELATIVELY UNIFORM OUTER SURFACE AND A COMPLETED LAYER THAT IS A REASONABLY WELL GRADED COMPACT MASS OF ROCK.
5. UNDERLAYER STONE PLACEMENT SHALL MAXIMIZE CONTACT BETWEEN INDIVIDUAL STONES ON ALL SIDES WITH EACH STONE HAVING AT LEAST THREE POINTS OF CONTACT WITH OTHER STONES.
6. REFER TO SPECIFICATION SECTION "ITEM P-181 CONCRETE ARMOR UNITS" FOR ADDITIONAL CONCRETE ARMOR UNITS REQUIREMENTS.
7. ELEVATIONS SHOWN IN ARE IN FEET, NAVD '88.

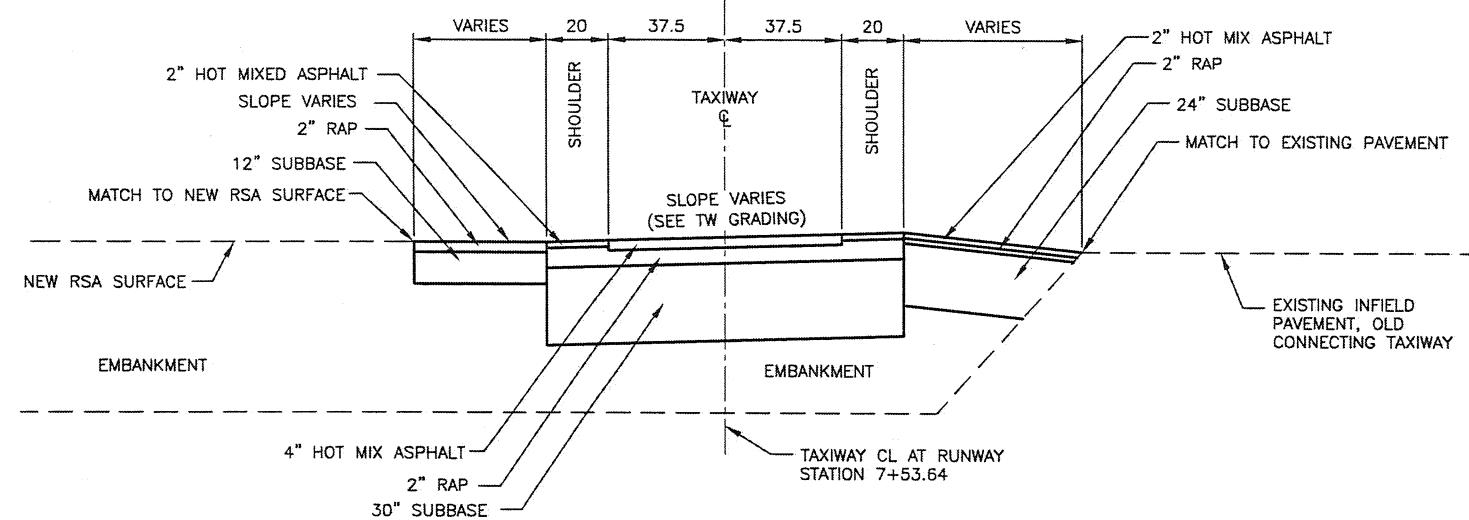
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http://co-ops.nos.noaa.gov/station_retrieve.shtml?type=bench+mark+data+sheets
 for 9457292 KODIAK ISLAND, AK, (WOMENS BAY)
 PUBLICATION DATE: 09/12/2007
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THE NOAA TIDAL DATA WATER LEVELS ADJUSTED TO NAVD88 = 0.0 FEET AS FOLLOWS:

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MEAN HIGH WATER	MHW	+8.63'	
MEAN HIGHER HIGH WATER	MHHW	+9.53'	
MEAN SEA LEVEL	MSL	+5.25'	
MEAN TIDE LEVEL	MTL	+5.25'	
MEAN LOW WATER	MLW	+1.87'	
MEAN LOWER LOW WATER	MLLW	+0.76'	
NAVD88 DATUM ORIGIN		0.00'	
EXTREME LOW WATER	ELW	-2.43'	1/12/2005

Designed By:	D.G.
Drawn By:	L.W.
Checked By:	J.W.



TAXIWAY B AT RUNWAY 36 THRESHOLD

N.T.S.
NOT SYMMETRIC ALONG CENTERLINE

NOTES:

1. UNCLASSIFIED EXCAVATION WILL NOT BE MEASURED FOR PAYMENT BUT CONSIDERED SUBSIDIARY TO OTHER ITEMS.
2. ORIGINAL GROUND MAY VARY FROM THAT DEPICTED IN TYPICAL SECTIONS.
3. IF RAP QUANTITIES ARE INSUFFICIENT CABC USED AS DIRECT REPLACEMENT INCH FOR INCH

COMPACTION REQUIREMENTS			
	UNDER PAVED AREAS	UNDER UNPAVED AREAS	IN WATER
HOT MIX ASPHALT	95%	-	-
SUBBASE	100%	95%	-
CABC	100%	COMPACTIVE EFFORT	-
RAP	98%	98%	-
BORROW <10%	100%	95%	-
BORROW <6%	95%	95%	COMPACTIVE EFFORT



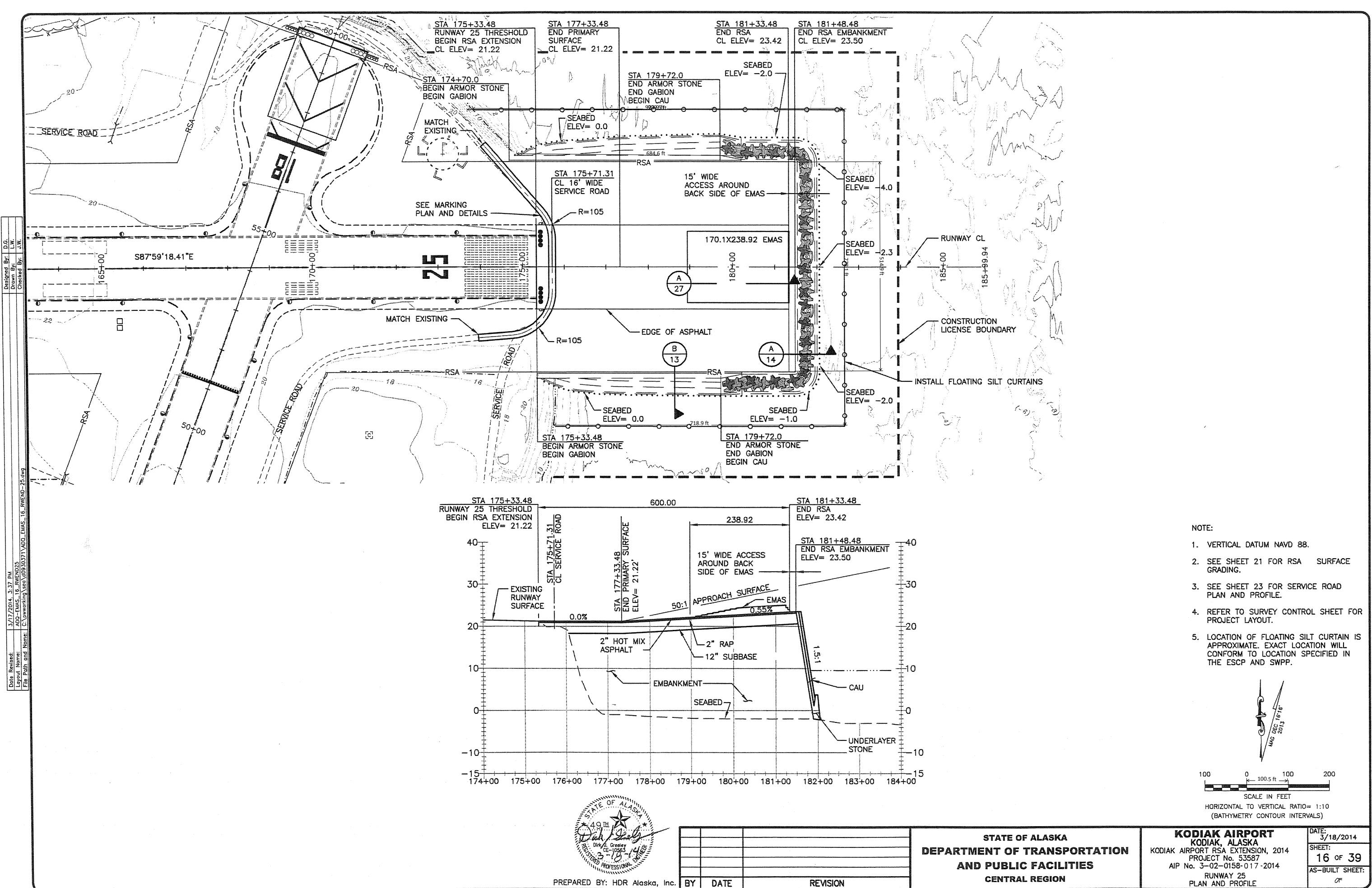
PREPARED BY: HDR Alaska, Inc.

BY	DATE	REVISION

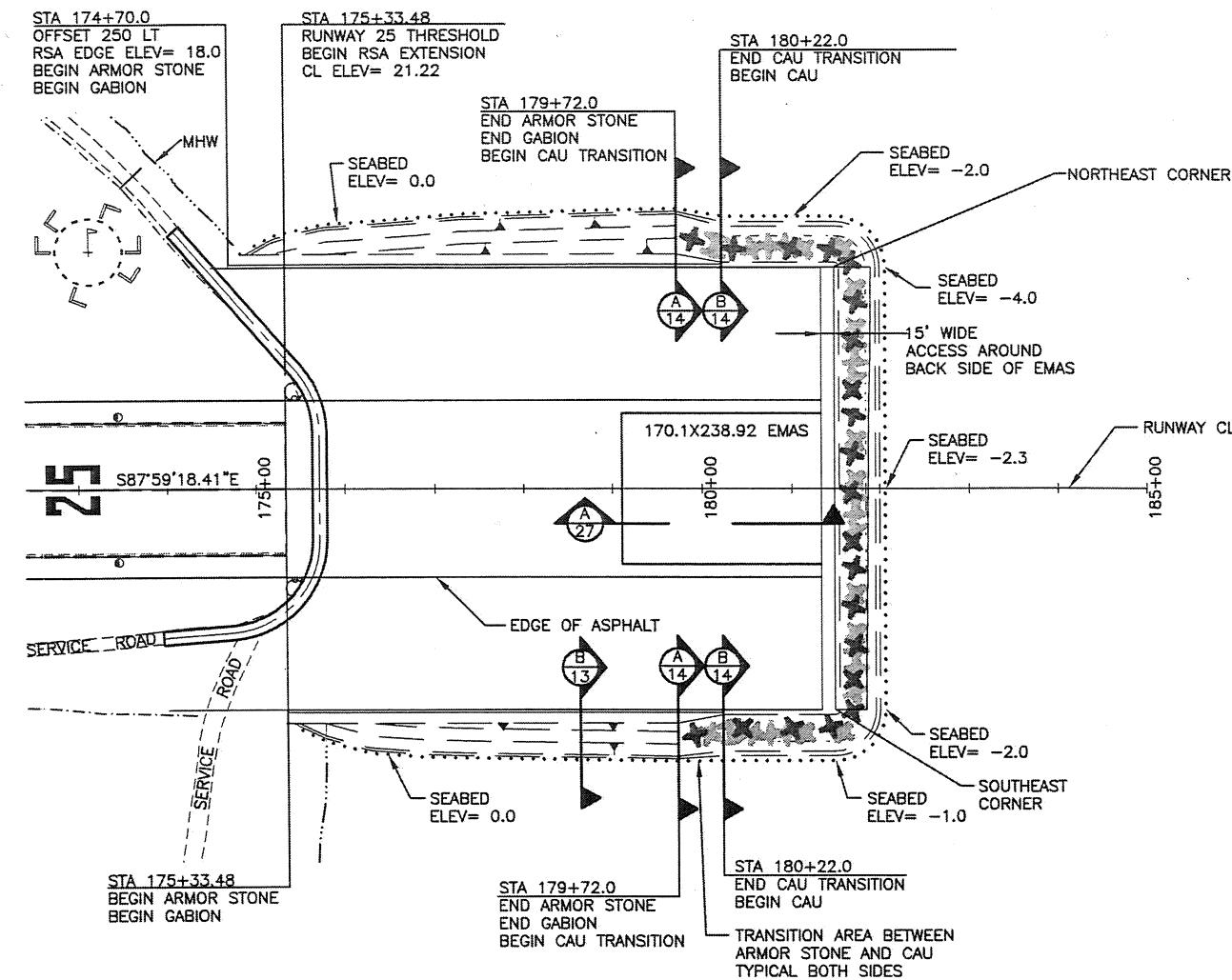
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
CENTRAL REGION

KODIAK AIRPORT
KODIAK, ALASKA
KODIAK AIRPORT RSA EXTENSION, 2014
PROJECT No. 53587
AIP No. 3-02-0158-017-2014
TAXIWAY B
TYPICAL SECTION

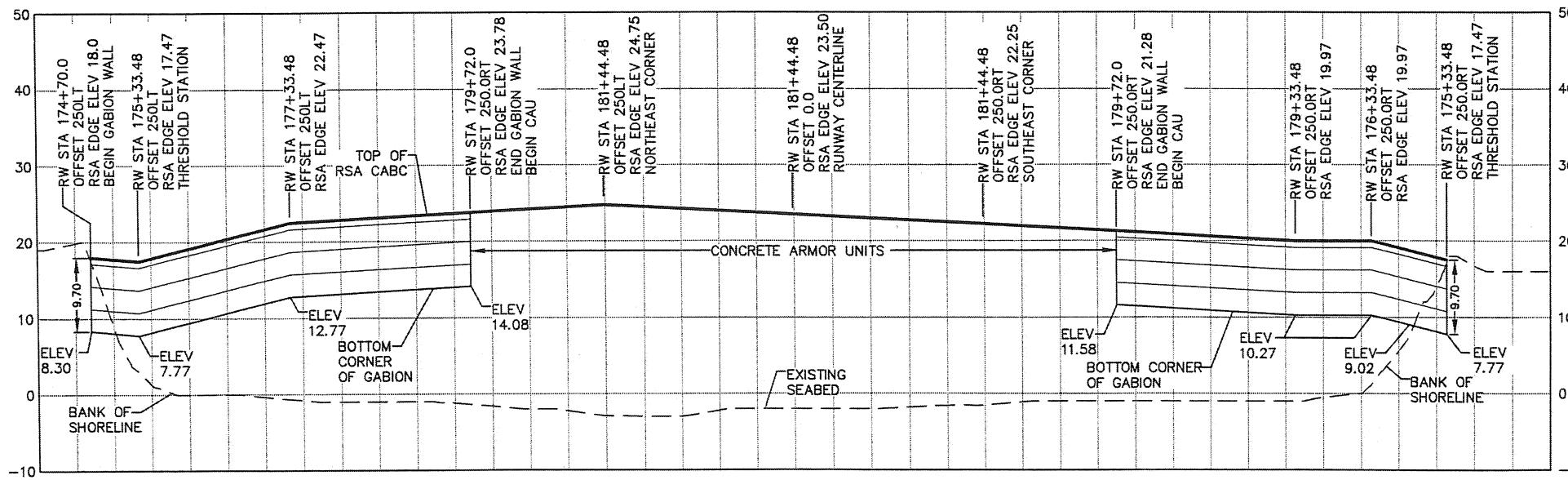
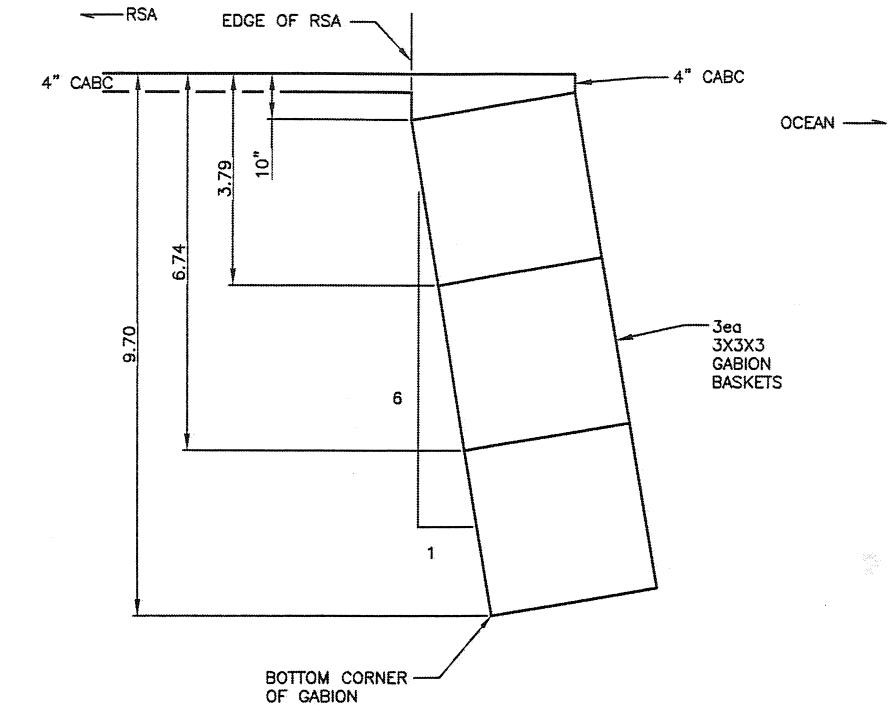
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3/18/2014
SHEET:
15 OF 39
AS-BUILT SHEET:
OF



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 Drawn By: D.G.
 Checked By: J.W.



GABION BASKET DETAIL



NORTH SHORE TO RW CENTERLINE TO SOUTH SHORE



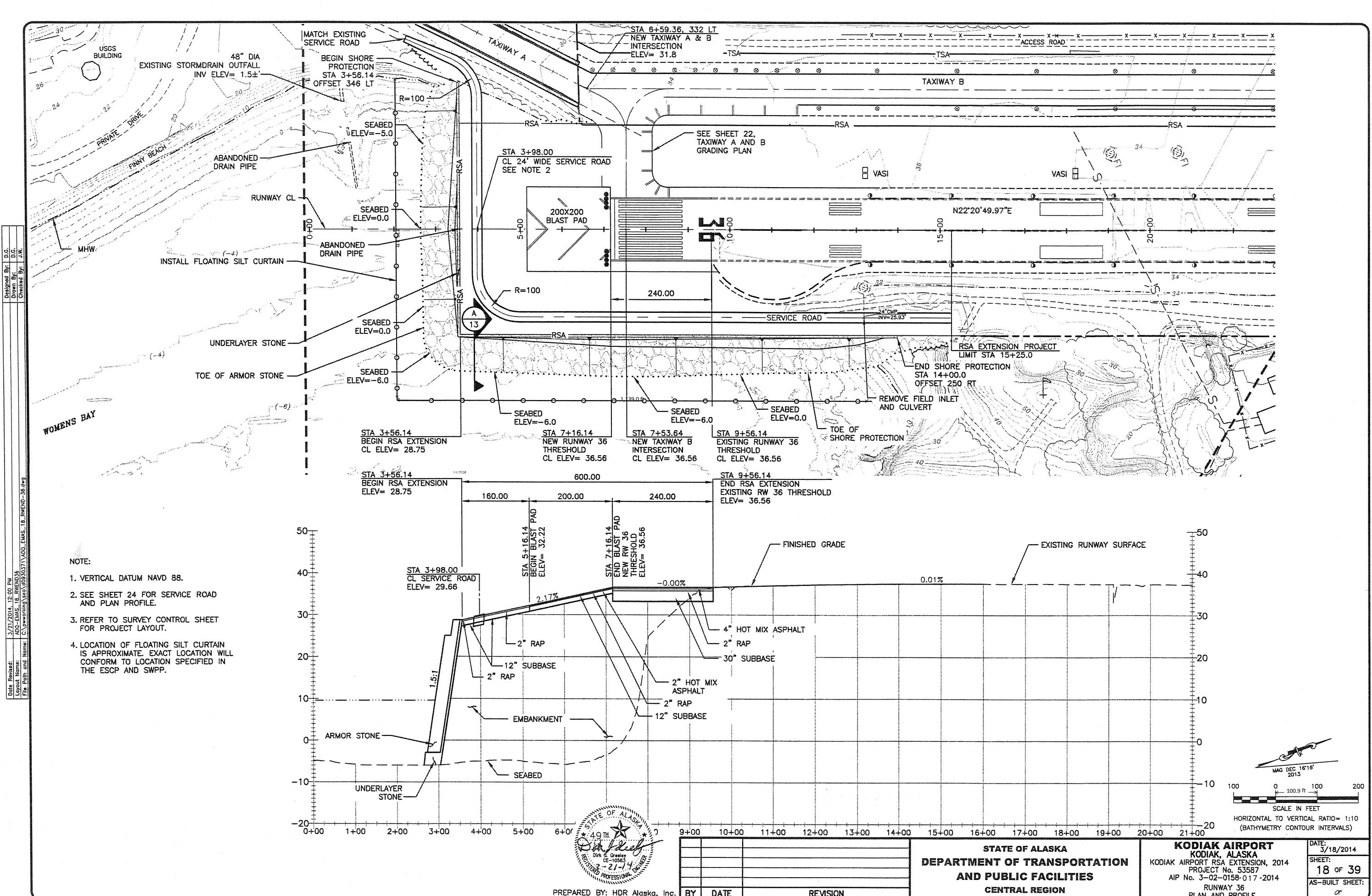
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PREPARED BY: HDR Alaska, Inc. BY DATE REVISION

**STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
CENTRAL REGION**

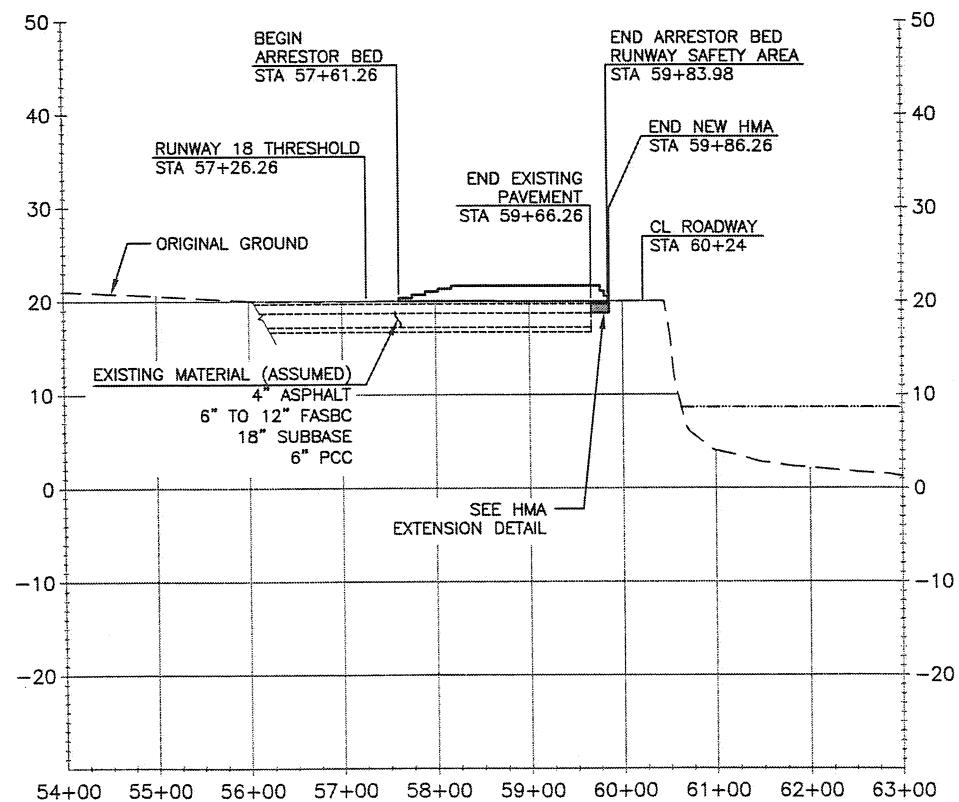
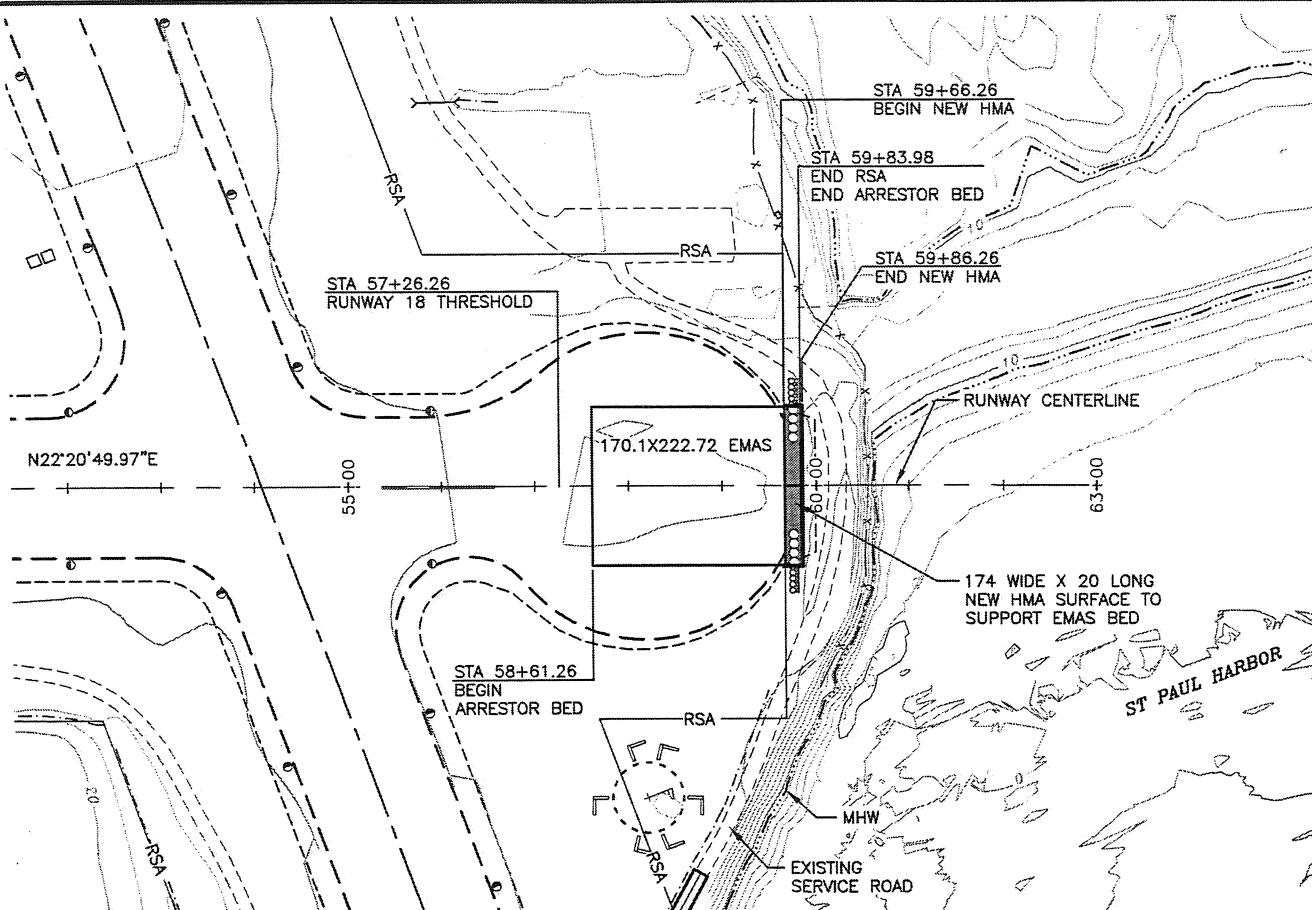
KODIAK AIRPORT
KODIAK, ALASKA
KODIAK AIRPORT RSA EXTENSION, 2014
PROJECT No. 53587
AIP No. 3-02-0158-017-2014
RUNWAY 25 SHORE PROTECTION
PLAN AND PROFILE

DATE:
3/18/2014
SHEET:
17 OF 39
AS-BUILT SHEET:
OF



Designed By: D.G.
Drawn By: L.W.
Checked By: J.W.

Date Revised: 3/19/2014 10:38 AM
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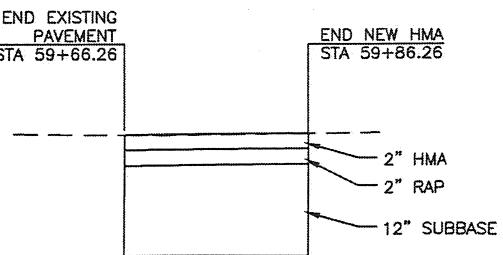
PREPARED BY: HDR Alaska, Inc.

BY	DATE	REVISION

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
CENTRAL REGION

KODIAK AIRPORT
KODIAK, ALASKA
KODIAK AIRPORT RSA EXTENSION, 2014
PROJECT No. 53587
AIP No. 3-02-0158-017-2014
RUNWAY 18
PLAN AND PROFILE

DATE: 3/18/2014
SHEET: 19 OF 39
AS-BUILT SHEET: OF



HMA EXTENSION DETAIL
N.T.S.

COMPACTION REQUIREMENTS

	UNDER PAVED AREAS	UNDER UNPAVED AREAS	IN WATER
HOT MIX ASPHALT	95%	-	-
RAP	98%	98%	-
SUBBASE	100%	95%	-

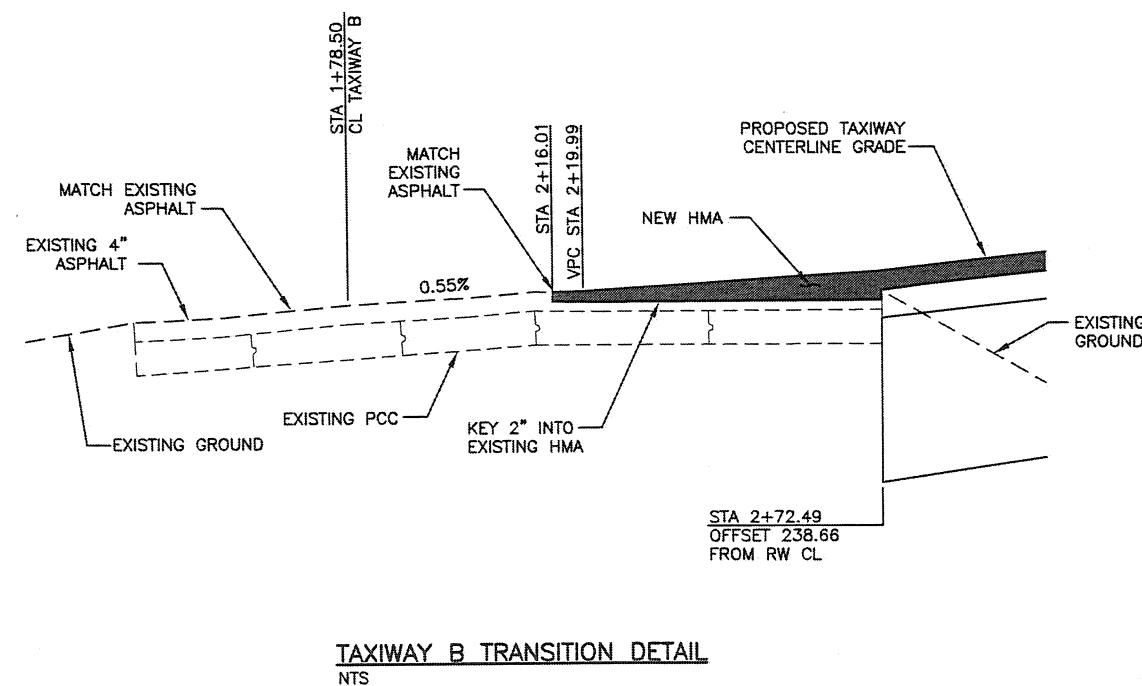
- NOTE:
1. VERTICAL DATUM NAVD 88.
 2. REFER TO RUNWAY MARKING PLANS FOR STRIPING AND END IDENTIFIERS.
 3. REFER TO SURVEY CONTROL SHEET FOR PROJECT LAYOUT.



100 0 100 200
SCALE IN FEET
HORIZONTAL TO VERTICAL RATIO= 1:10
(BATHYMETRY CONTOUR INTERVALS)

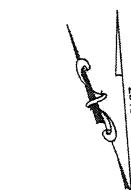
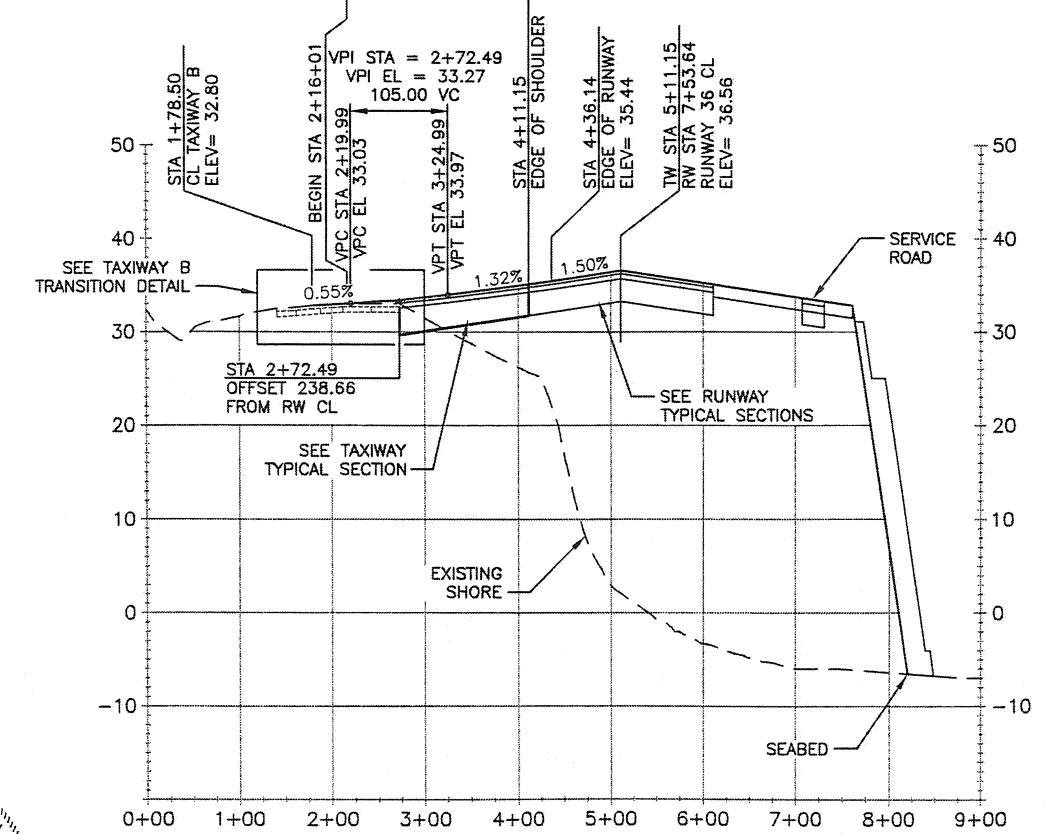
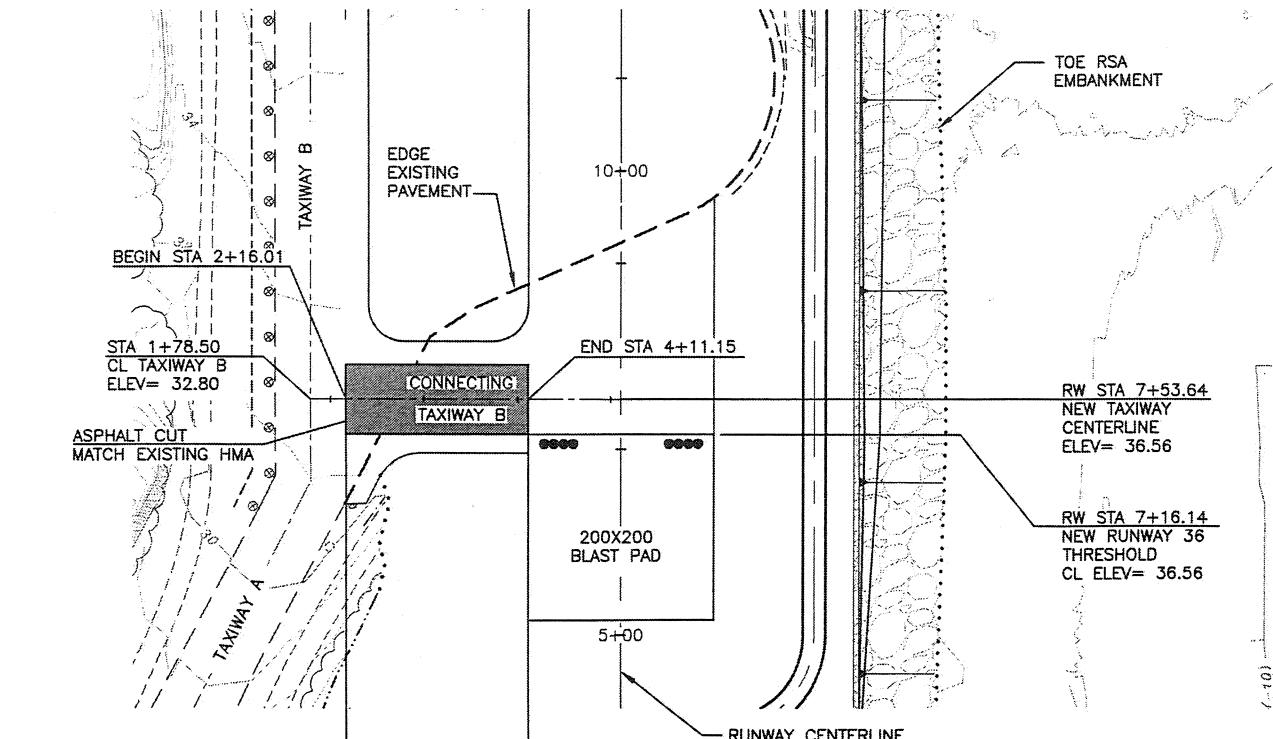
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Designed By: D.G.
 Drawn By: L.W.
 Checked By: J.W.



PREPARED BY: HDR Alaska, Inc.

BY DATE REVISION

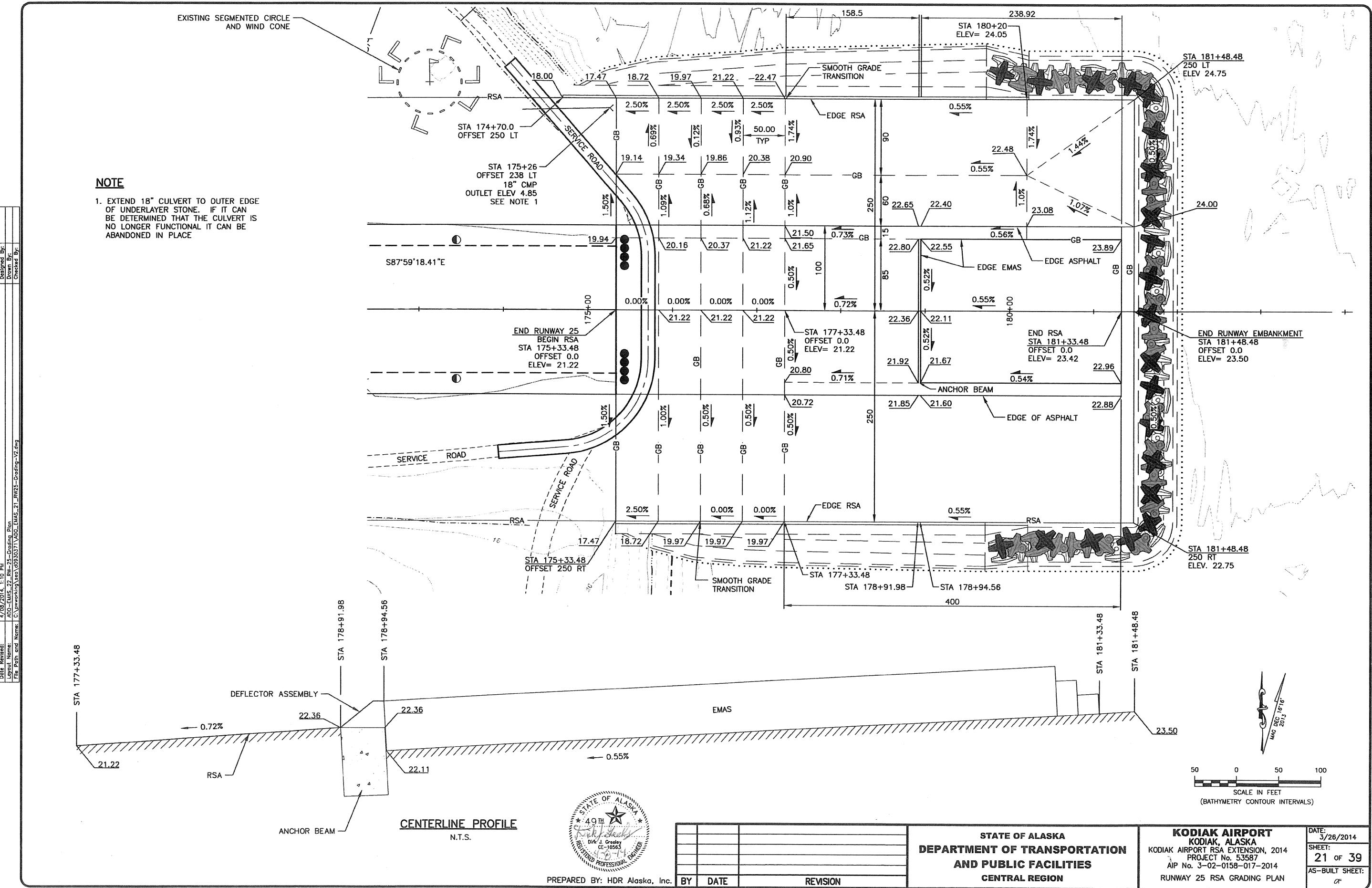


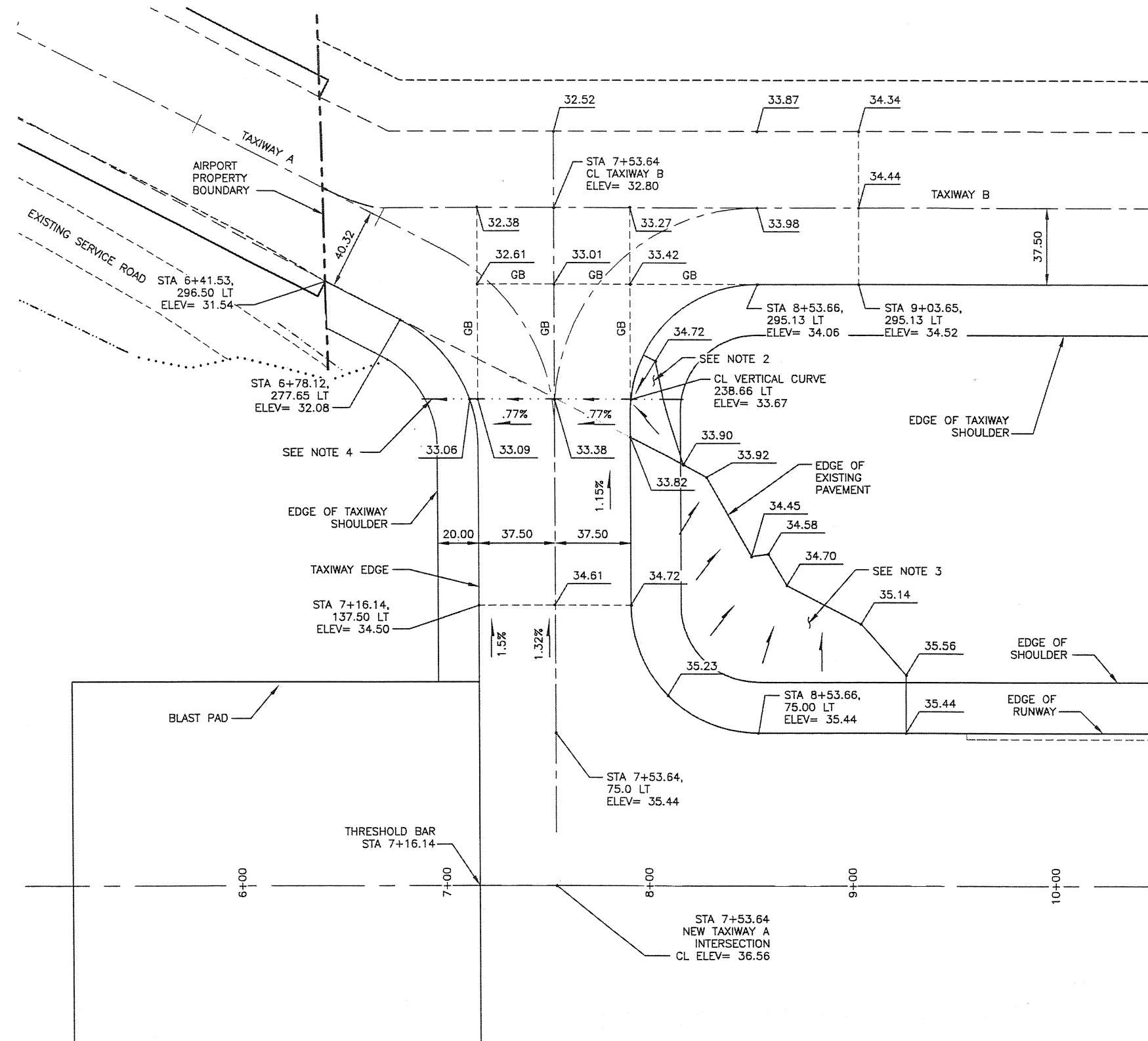
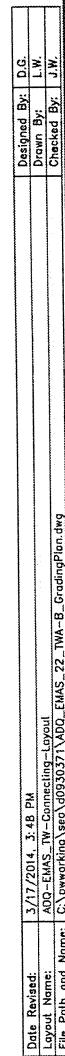
- NOTE:**
1. VERTICAL DATUM NAVD 88.
 2. REFER TO RUNWAY MARKING PLANS FOR STRIPPING AND END IDENTIFIERS
 3. REFER TO SURVEY CONTROL SHEET FOR PROJECT LAYOUT

**STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
CENTRAL REGION**

KODIAK AIRPORT
KODIAK, ALASKA
 KODIAK AIRPORT RSA EXTENSION, 2014
 PROJECT No. 53587
 AIP No. 3-02-0158-017-2014
 TAXIWAY B
 PLAN AND PROFILE

DATE: 3/18/2014
 SHEET: 20 OF 39
 AS-BUILT SHEET: OF





NOTES

1. VERTICAL DATUM NAVD 88.
 2. ASPHALT TO MATCH TAXIWAY B EXISTING ASPHALT. PER DETAIL 1 SHEET 20.
 3. AREA OF NEW ASPHALT GRADE TO DRAIN FROM NEW RUNWAY AND NEW TAXIWAY TO EDGE OF EXISTING PAVEMENT.
 4. VERTICAL CURVE FOR SWALE = 105', SEE TAXIWAY B PLAN AND PROFILE SHEET



30 0 30 60

SCALE IN FEET

HORIZONTAL TO VERTICAL RATIO = 1:10
(BATHYMETRY CONTOUR INTERVALS)



PREPARED BY: HDR Alaska.

BY	DATE	REVISION

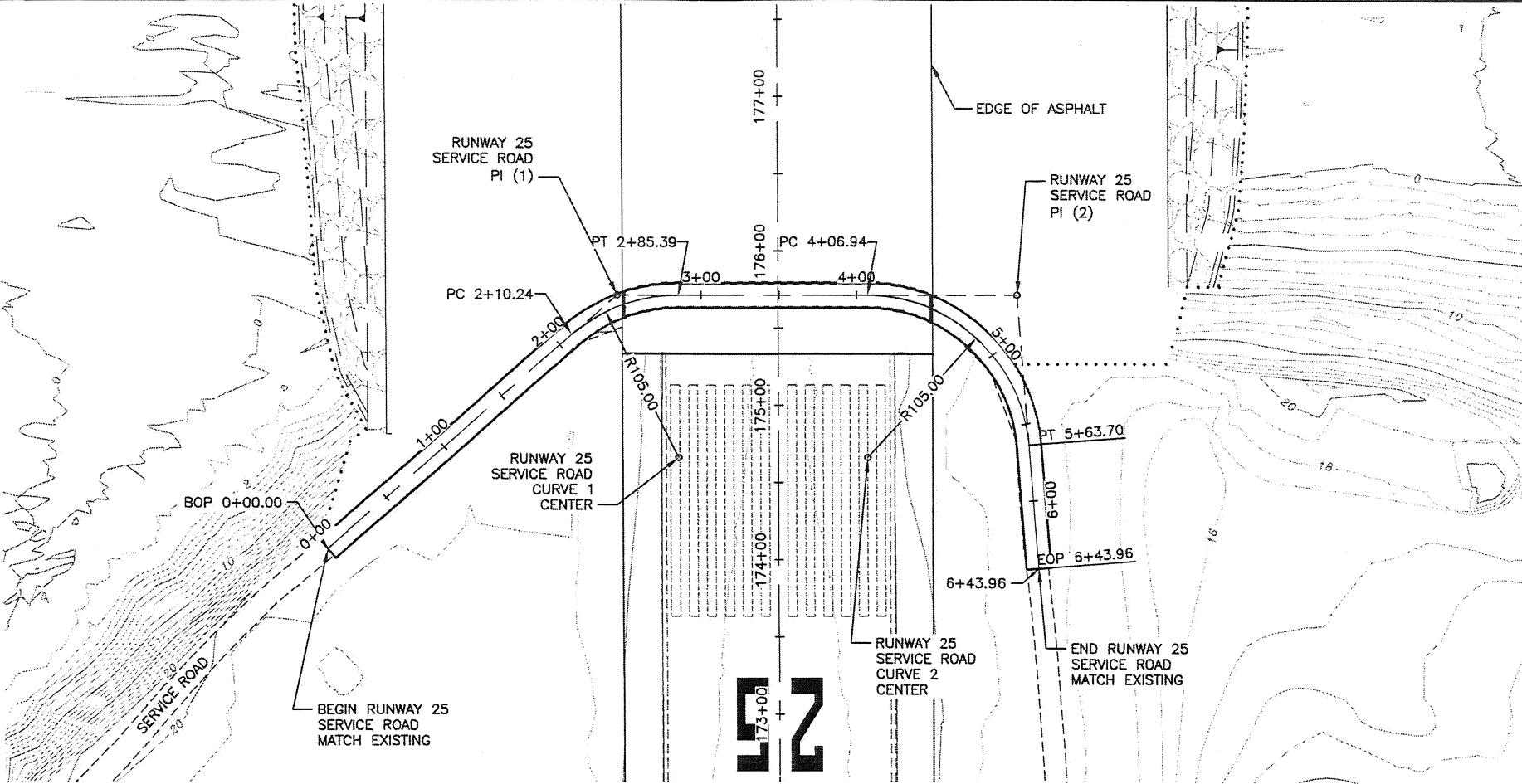
**STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
CENTRAL REGION**

**KODIAK AIRPORT
KODIAK, ALASKA**
KODIAK AIRPORT RSA EXTENSION, 2014
PROJECT NO. 53587
AIP No. 3-02-0158-017-2014
TAXIWAY A AND B
GRADING PLAN

DATE:
3/18/2014
SHEET:
22 OF **39**
AS-BUILT SHEET:
OF

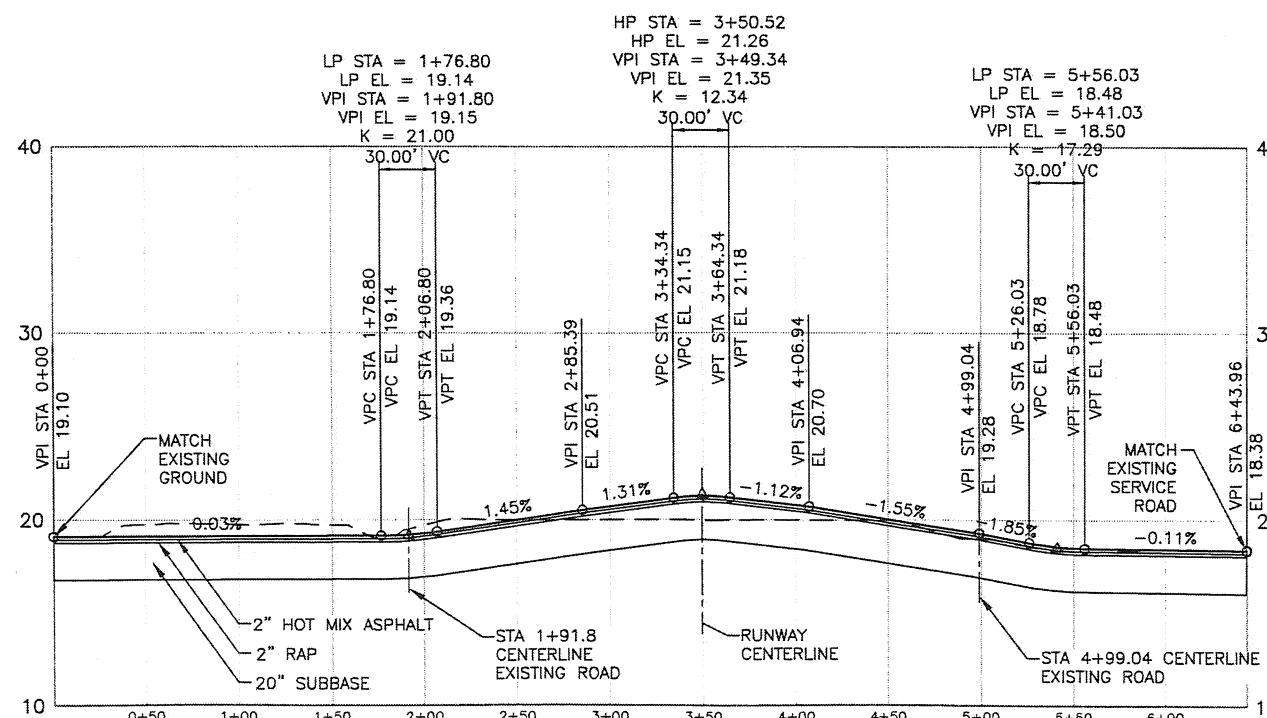
Date Revised: 3/18/2014 11:53 AM
 Layout Name: 400-EMAS 23_RW25_ServiceRoad
 File Path and Name: C:\Users\jw\Documents\New\400-EMAS 23_RW25-ServiceRoad.dwg

Designed By: D.G.
 Drawn By: L.W.
 Checked By: J.W.



RUNWAY 25 SERVICE ROAD LAYOUT POINTS		
POINT	STATION	OFFSET
BEGIN ROAD	174+07.59	291.50LT
PI(1)	175+71.31	103.22LT
CURVE 1 CENTER	174+66.31	63.95LT
CURVE 2 CENTER	174+66.31	57.60RT
PI(2)	175+71.31	154.72RT
END ROAD	173+94.46	168.52RT

STATION AND OFFSET REFER TO RUNWAY 25 CENTERLINE



- NOTE:
1. VERTICAL DATUM NAVD 88.
 2. SEE SHEET 21 FOR RSA SURFACE GRADING.
 3. REFER TO SURVEY CONTROL SHEET FOR PROJECT LAYOUT.

MAG DEC 16°16'
2013

SCALE IN FEET

HORIZONTAL TO VERTICAL RATIO= 1:10
 (BATHYMETRY CONTOUR INTERVALS)



PREPARED BY: HDR Alaska, Inc.

BY

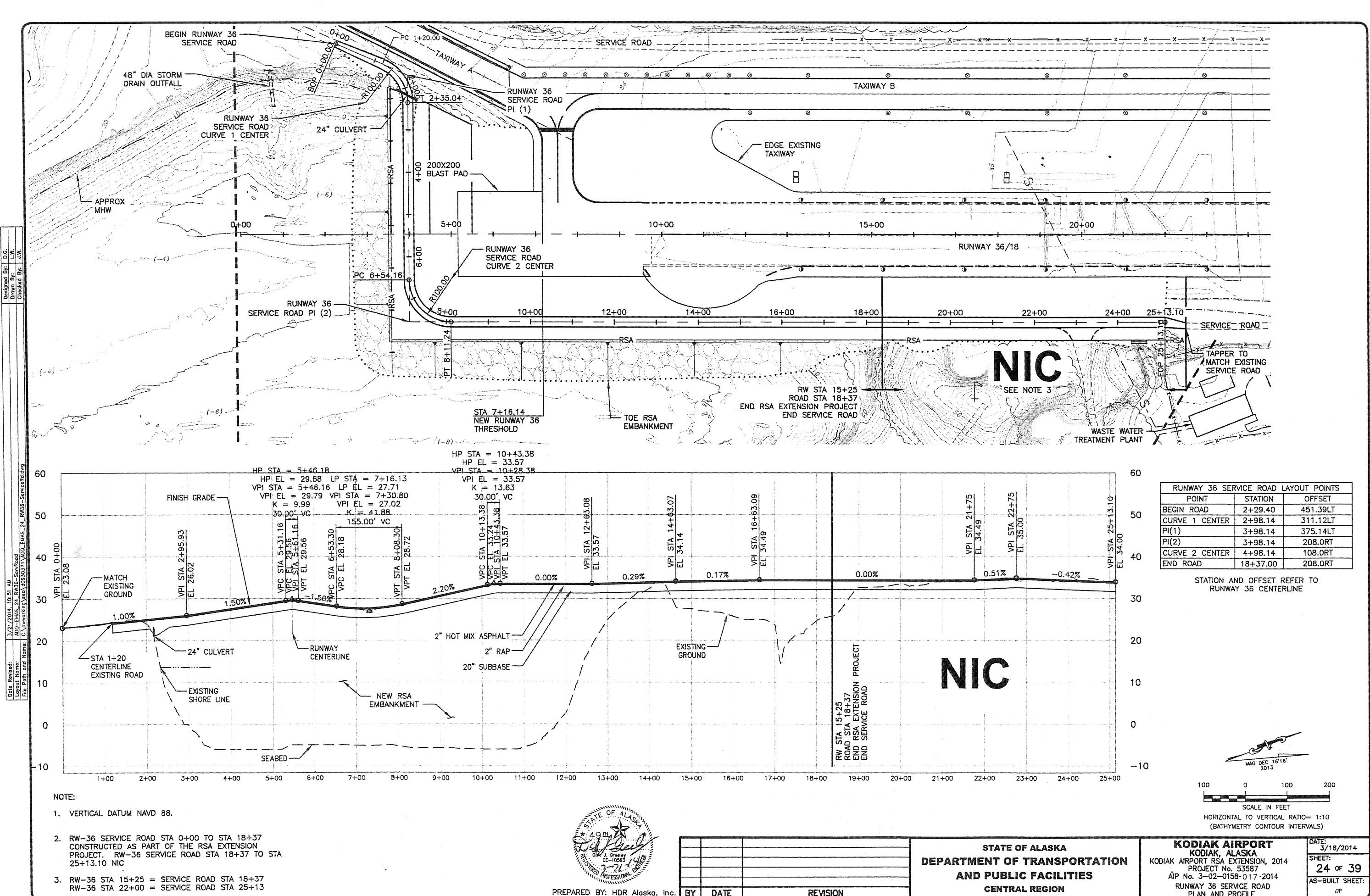
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REVISION

STATE OF ALASKA
**DEPARTMENT OF TRANSPORTATION
 AND PUBLIC FACILITIES
 CENTRAL REGION**

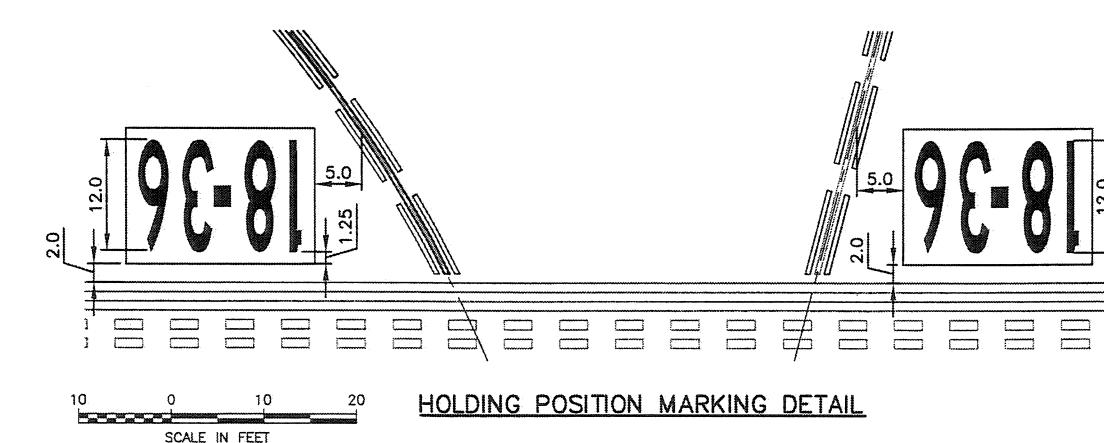
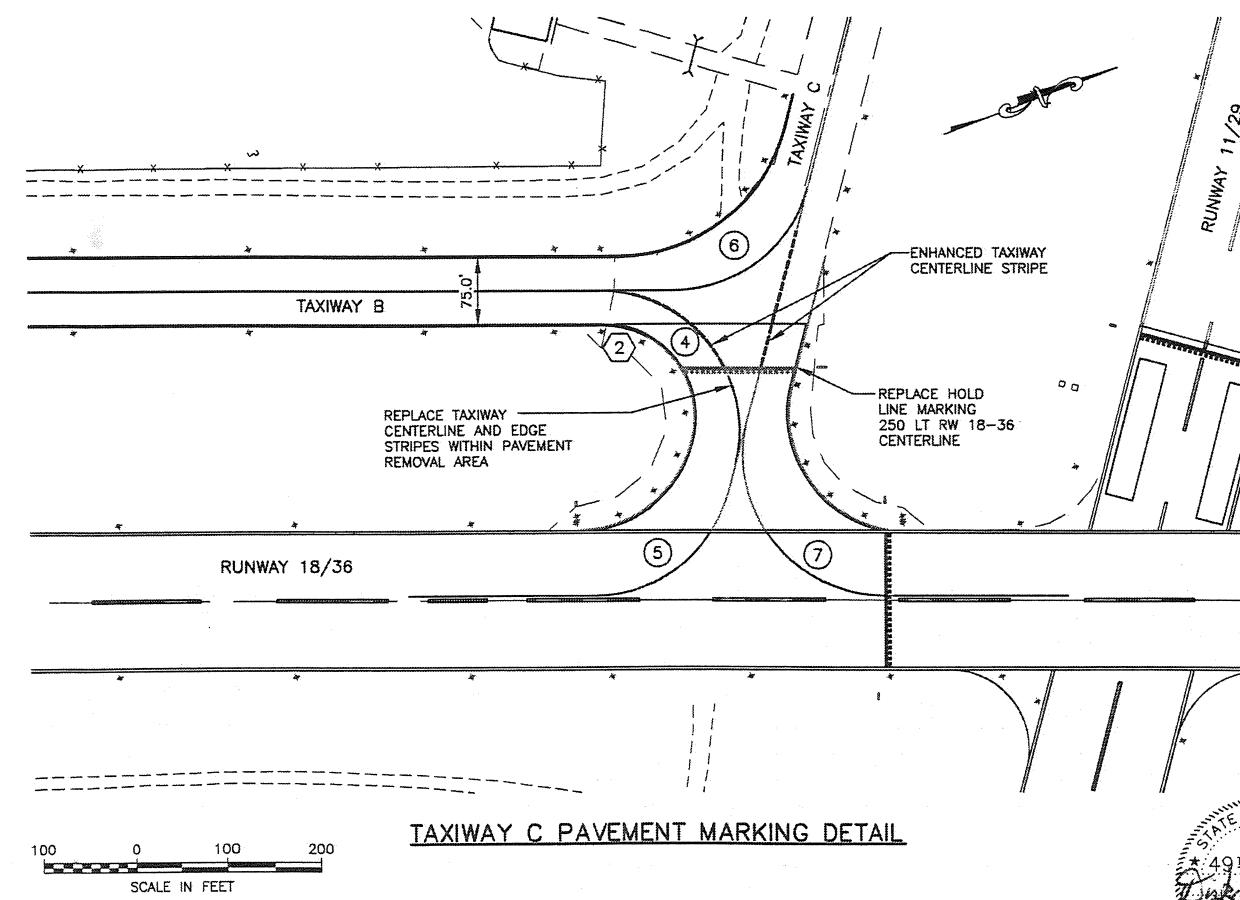
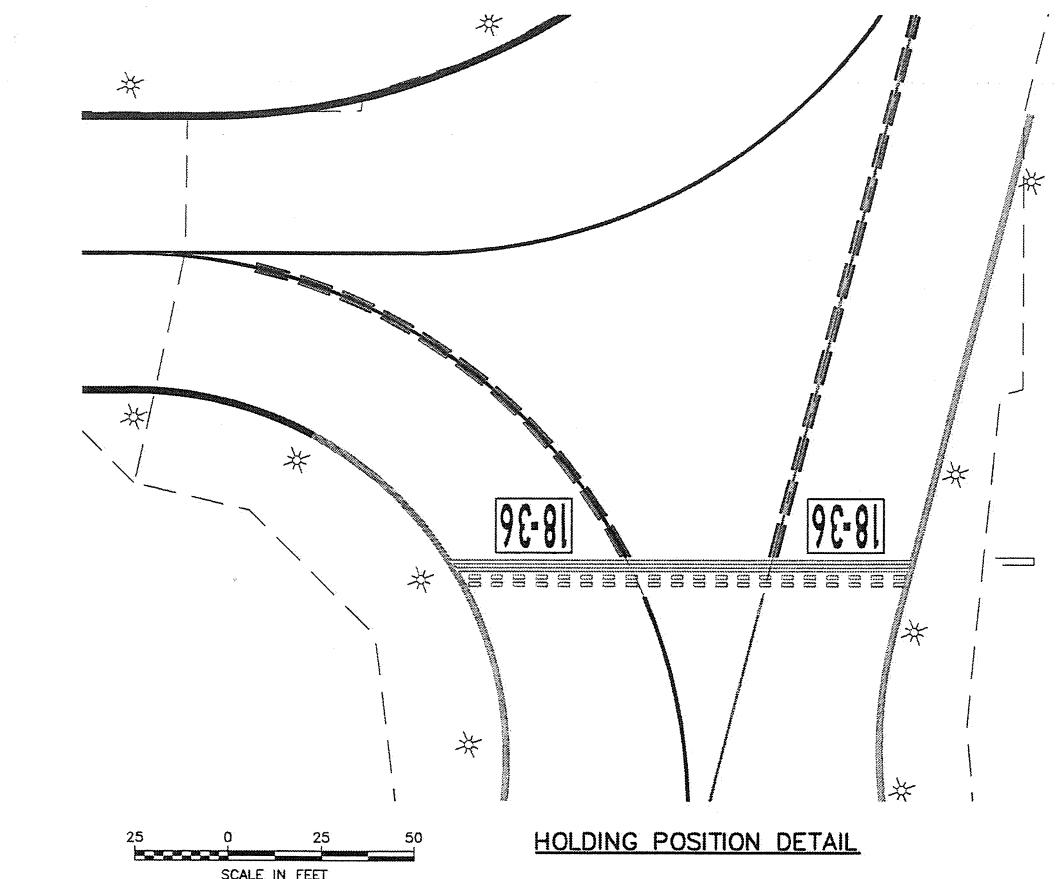
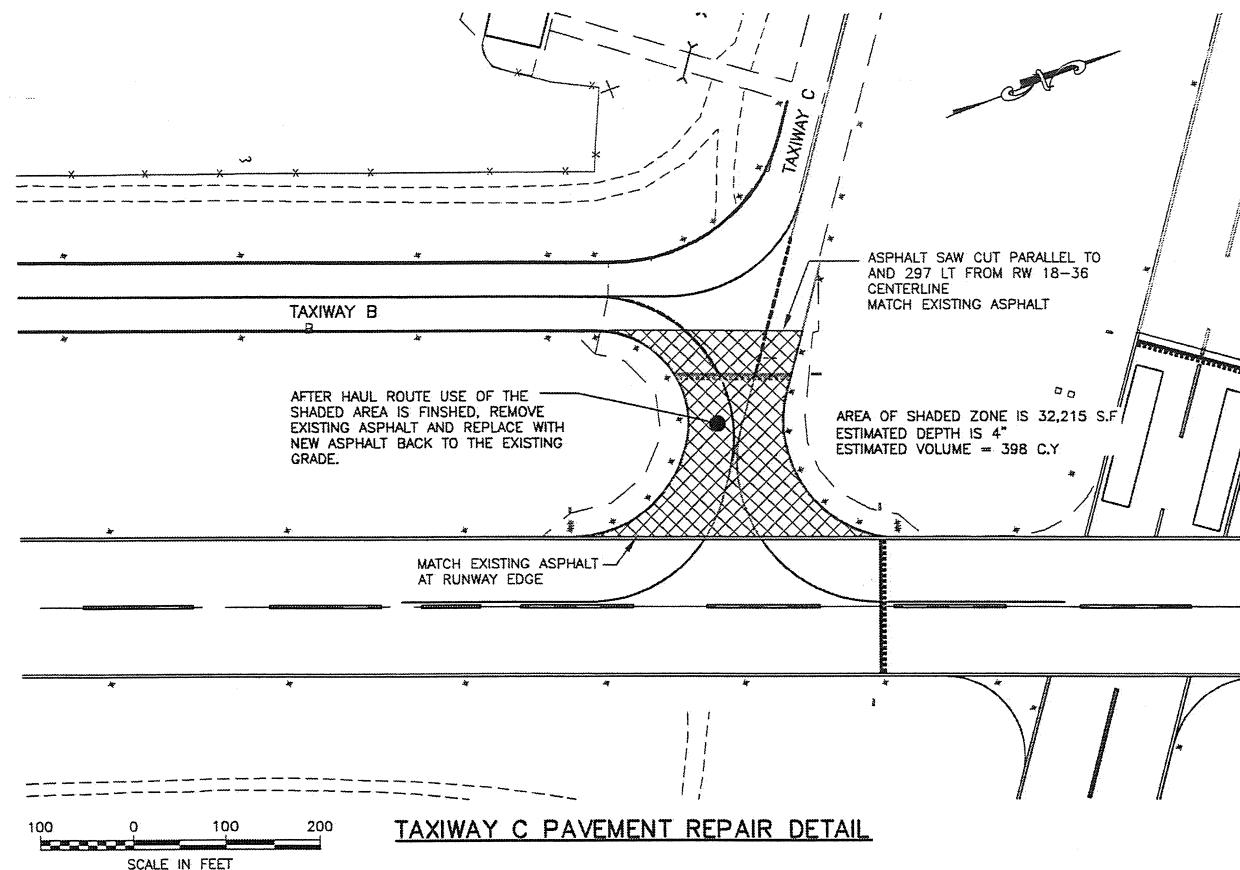
KODIAK AIRPORT
 KODIAK, ALASKA
 KODIAK AIRPORT RSA EXTENSION, 2014
 PROJECT No. 53587
 AIP No. 3-02-0158-017-2014
 RUNWAY 25 SERVICE ROAD
 PLAN AND PROFILE

DATE:
 3/18/2014
 SHEET:
 23 of 39
 AS-BUILT SHEET:
 OF



Designed By: C.M.
Drawn By: T.P.
Checked By: J.H.

Date Revised: 3/17/2014, 4:33 PM
Layout Name: Sheet 25
File Path and Name: C:\powering\user\003037\1\ADQ_EMAS_25_TMC_Repair.dwg



TAXIWAY CENTERLINE STRIPE CURVE DATA								
I.D.	P.C.		P.T.		DELTA	RADIUS	TANGENT	LENGTH
	STATION	OFFSET	STATION	OFFSET				
4	36+15.75	332.25 LT	37+60.81	144.21 LT	104°41'00"	150.00	194.37	274.06
5	36+08.50	4.75 LT	37+33.61	71.99 LT	75°18'31"	150.00	115.74	197.16
6	36+15.73	332.25 LT	38+39.46	444.20 LT	75°18'54"	150.00	115.76	197.17
7	37+93.54	71.99 LT	39+18.64	4.75 LT	104°41'29"	150.00	194.4	274.08

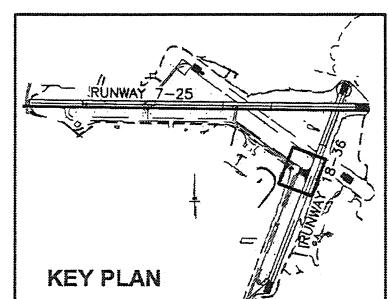
TAXIWAY EDGE STRIPE CURVE DATA								
I.D.	P.C.		P.T.		DELTA	RADIUS	TANGENT	LENGTH
	STATION	OFFSET	STATION	OFFSET				
2	36+15.75	294.75 LT	36+64.41	282.97 LT	28°51'59"	100.43	25.85	50.6

LEGEND

- (2) TAXIWAY CENTERLINE STRIPE CURVE DATA I.D. NUMBER. SEE TAXIWAY CENTERLINE STRIPE CURVE DATA TABLE.
- (3) TAXIWAY EDGE STRIPE CURVE DATA I.D. NUMBER. SEE TAXIWAY EDGE STRIPE CURVE DATA TABLE.

NOTE:

- ALL STATIONS THIS SHEET ARE BASED ON RUNWAY 18-36 CENTERLINE STATIONING



PREPARED BY: HDR Alaska, Inc.

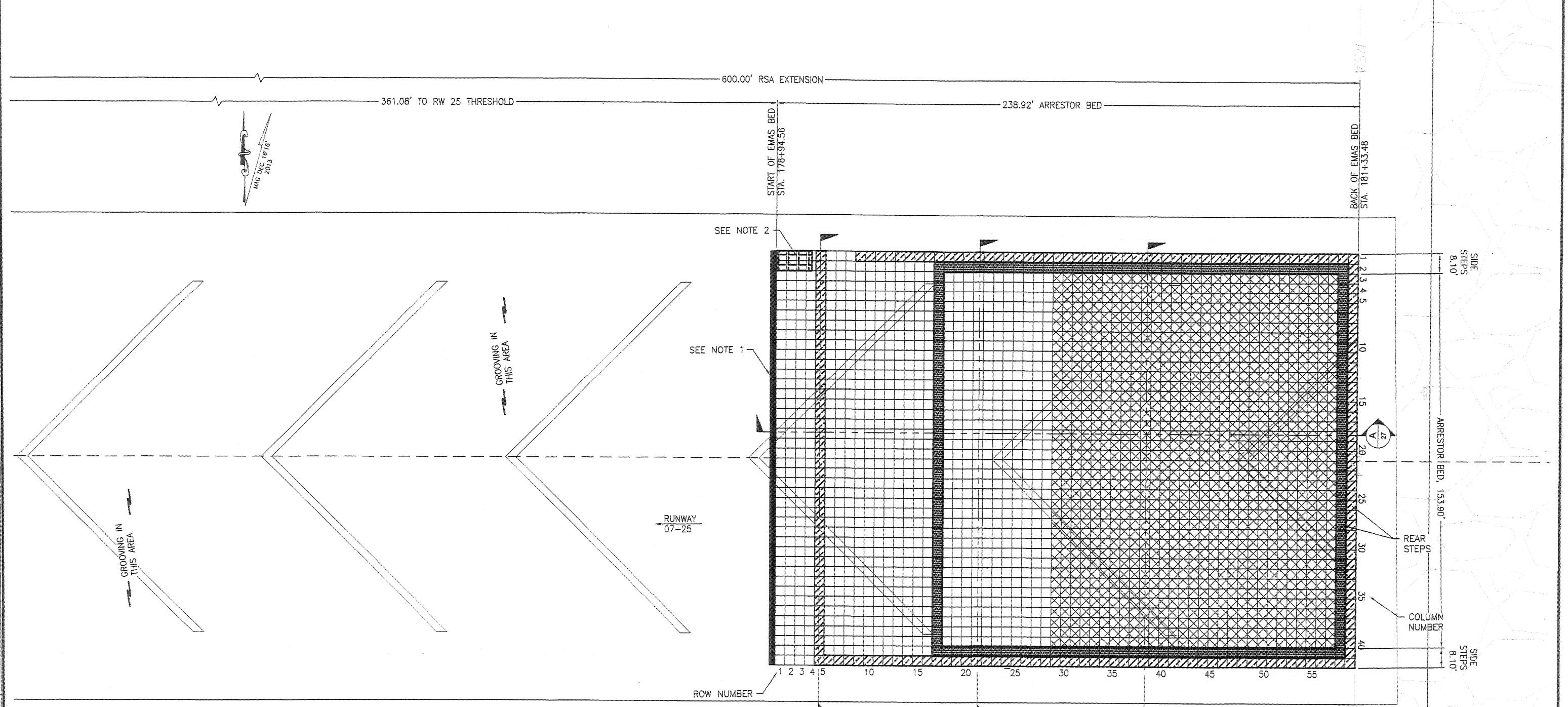
BY	DATE	REVISION

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
CENTRAL REGION

KODIAK AIRPORT
KODIAK, ALASKA
PROJECT No. 53587
AIP No. 3-02-0158-017-2014
TAXIWAY C PAVEMENT REPAIR

DATE: 3/18/2014
SHEET: 25 OF 39
AS-BUILT SHEET:
OF

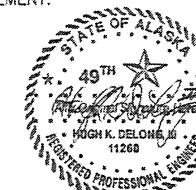
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LEGEND:	
	8" STEPS
	14" STEPS
	20"
	6"-20"
	CONCRETE ANCHOR BEAM
	EQUIPMENT RAMP

- NOTE:
 1. A DEBRIS DEFLECTOR ASSEMBLY WILL BE INSTALLED ON TOP OF THE CONCRETE ANCHOR BEAM PRIOR TO BLOCK INSTALLATION. SEE DETAILS 1, 2, 3 & 4 ON EMAS DETAILS SHEET.
 2. DEBRIS DEFLECTOR ASSEMBLY IS NOT TO BE INSTALLED IN FRONT OF EQUIPMENT RAMP. BLOCKS WILL RISE FROM FLUSH WITH THE BACK OF THE ANCHOR BEAM (3") TO 7.5" OVER THE 12" RAMP.
 3. EXCLUDING THE FIRST ROW, BLOCKS INSTALLED WITH A 0.05' ($\approx 1/2"$) GAP.

4. ALL MARKINGS DESIGNATED TO BE INSTALLED ON EMAS BLOCK SHALL BE APPLIED WITH A WALK BEHIND APPLICATOR OF SUCH WEIGHT THAT IT WILL NOT DAMAGE THE EMAS MATERIAL.
5. ALL BLOCKS ARE 4.0' X 4.0' AND VARY IN HEIGHT. FOR BLOCK HEIGHTS SEE PROFILE "A" ON EMAS PROFILE VIEW SHEET 27 AND EMAS SECTION VIEW SHEET 28 FOR SECTIONS "B", "C" AND "D".
6. PAVEMENT GROOVING IS REQUIRED IN FRONT OF EMAS ARRESTOR BED (TOWARDS RUNWAY THRESHOLD). GROOVING TO EXTEND FROM EDGE OF PAVEMENT TO EDGE OF PAVEMENT.
7. SEE SPECIFICATION P-556 FOR MORE DETAILS.

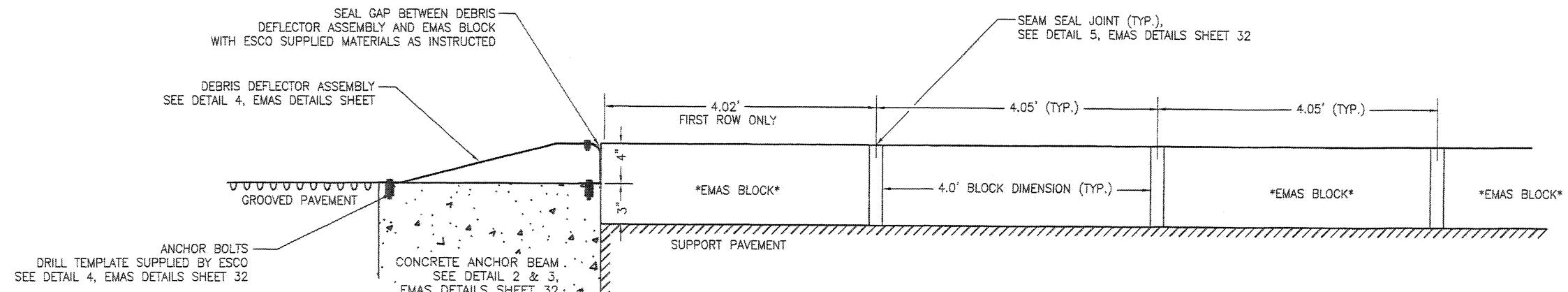
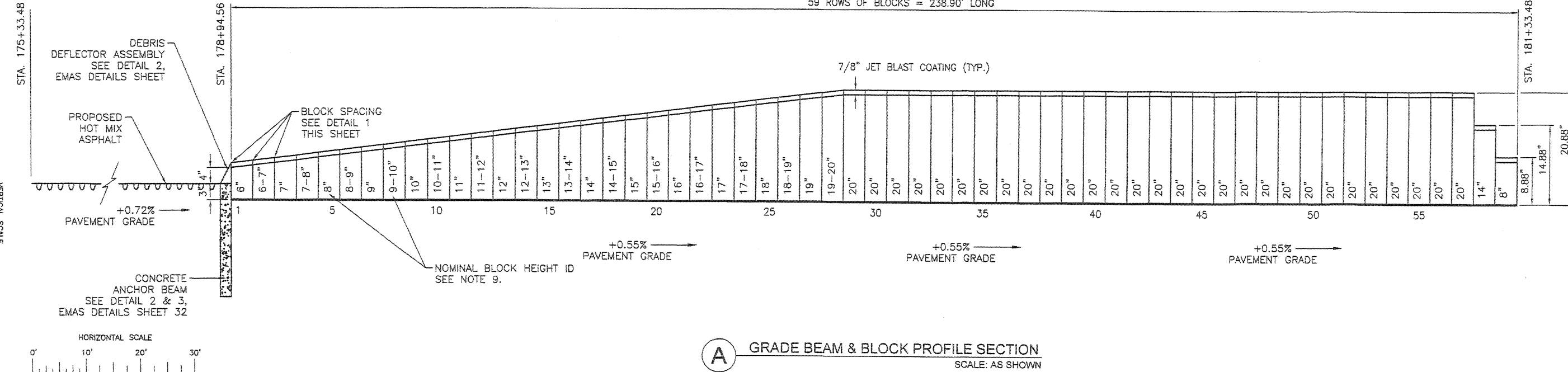


20 0 20 40
Scale Feet

PREPARED BY: Engineered Arresting Systems Corporation

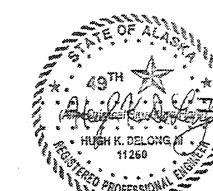
BY	DATE	REVISION	STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES CENTRAL REGION	KODIAK AIRPORT KODIAK, ALASKA RUNWAY SAFETY AREA EXTENSION PROJECT NO. 53587 AIP No. 3-02-0158-017-2014 RUNWAY 25 EMAS PLAN VIEW	DATE: 3/18/2014 SHEET: 26 OF 39 AS-BUILT SHEET: OF

Date Revised:	3/08/2014, 1:12 PM
Layout Name:	EMAS 2014-07 DE PROJ
File Path and Name:	\EMAS\2014\Engineering & Sales\Tech Engineering\US_Airport\Kodiak\EMAS Details\EMAS Detail 4\EMAS Detail 4.dwg



EMAS GENERAL NOTES:

- THE CONTRACTOR SHALL COORDINATE WITH EMAS MANUFACTURER TO SCHEDULE AND ACCEPT DELIVERY OF THE EMAS BLOCKS.
- THE CONTRACTOR SHALL BEGIN BLOCK INSTALLATION AT STATION 178+94.56 BUTTING THE FIRST ROW OF BLOCKS AGAINST THE PROPOSED CONCRETE ANCHOR BEAM.
- AT THE END OF EACH WORKING SHIFT THE CONTRACTOR SHALL LEAVE THE WORK AREA IN A CONDITION SUCH THAT THE NUMBER AND HEIGHT OF INSTALLED BLOCKS IS SYMMETRICAL ABOUT THE RUNWAY CENTERLINE.
- AT THE CONCLUSION OF EACH DAY THE CONTRACTOR SHALL HAVE ALL SURFACE JOINTS SEALED. SEE TYPICAL SEAM SEAL JOINT DETAIL SHEET 32.
- DEBRIS DEFLECTOR ASSEMBLY AND ANCHOR BOLTS WILL BE PROVIDED BY EMAS MANUFACTURER.
- EMAS BED LENGTH TOLERANCE IS -0.1% TO +1%.
- EMAS BED HEIGHT TOLERANCE IS -0.25" TO +0.75".
- EMAS BED ALIGNMENT TOLERANCE IS $\pm 1/8"$ OVER A 20.25' SPAN.
- ALL BLOCKS ARE 4.0' X 4.0' X THICKNESS SHOWN. A JET BLAST COATING IS APPLIED PRIOR TO SHIPPING. FOR EASE OF IDENTIFYING BLOCKS DURING CONSTRUCTION, NOMINAL VALUES ARE USED.
- BLOCKS INSTALLED WITH A 0.05' GAP ($\approx 1/2"$).



PREPARED BY: Engineered Arresting Systems Corporation

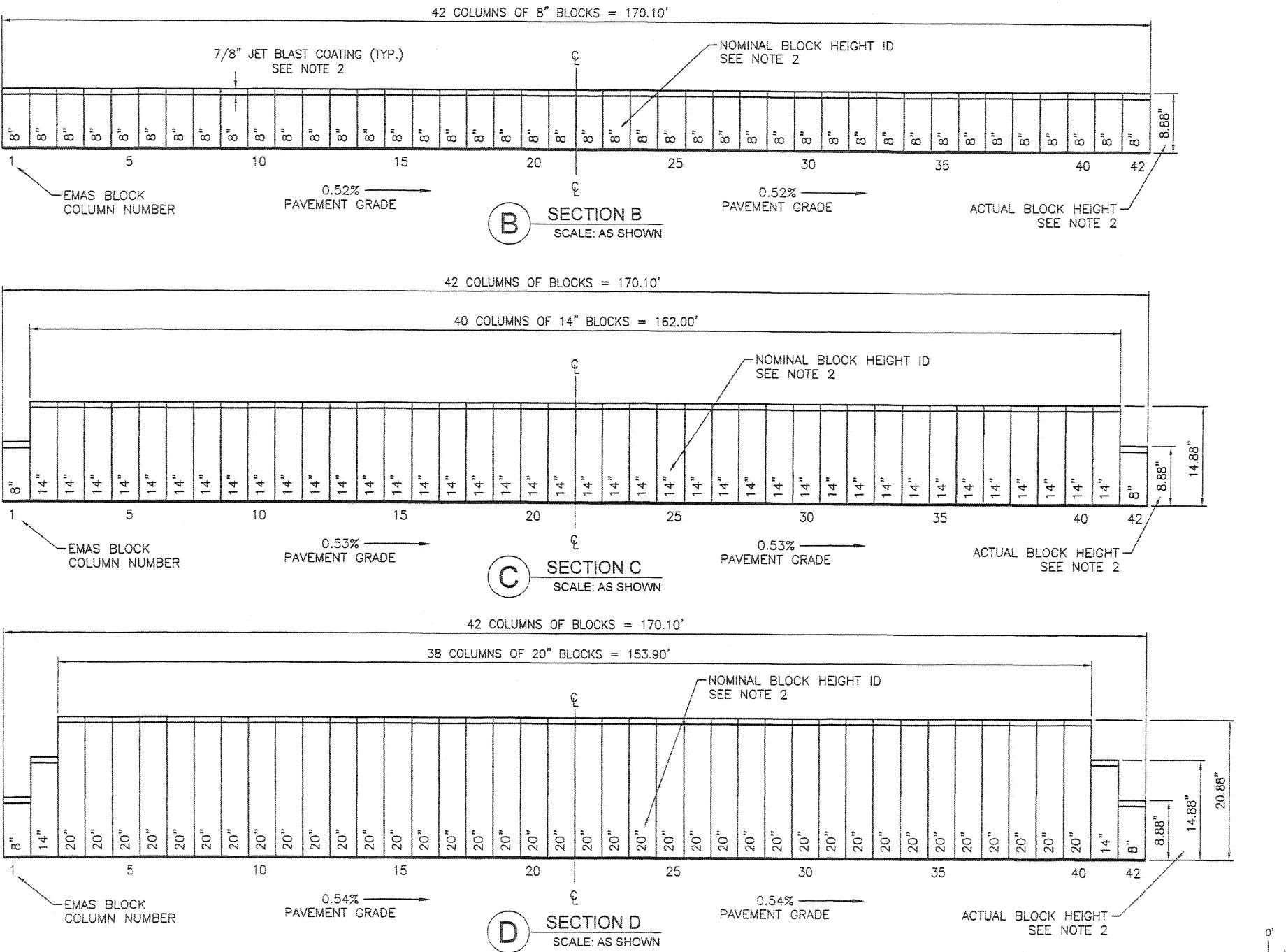
BY	DATE	REVISION

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
CENTRAL REGION

KODIAK AIRPORT
KODIAK, ALASKA
RUNWAY SAFETY AREA EXTENSION
PROJECT No. 53587
AIP No. 3-02-0158-017-2014
RUNWAY 25
EMAS PROFILE VIEW

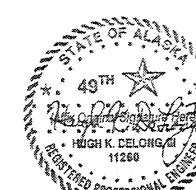
DATE: 3/18/2014
SHEET: 27 OF 39
AS-BUILT SHEET: OF

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Designated Br: IJKB
Designated Br: MMH
Sectin/Brach/Div: MMH



EMAS SECTION VIEW NOTES

1. EMAS BED WIDTH TOLERANCE IS -0.1% TO +1%
 2. ALL BLOCKS ARE 4.0' X 4.0' X THICKNESS SHOWN. A JET BLAST COATING IS APPLIED PRIOR TO SHIPPING. FOR EASE OF IDENTIFYING BLOCKS DURING CONSTRUCTION, NOMINAL VALUES ARE USED.
 3. BLOCKS INSTALLED WITH A 0.05' GAP (\approx 1/2")
 4. SEE EMAS PLAN VIEW SHEET 26 FOR CROSS SECTION REFERENCES.



PREPARED BY: Engineered
Arresting Systems Corporat

BY	DATE	REVISION

**STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
CENTRAL REGION**

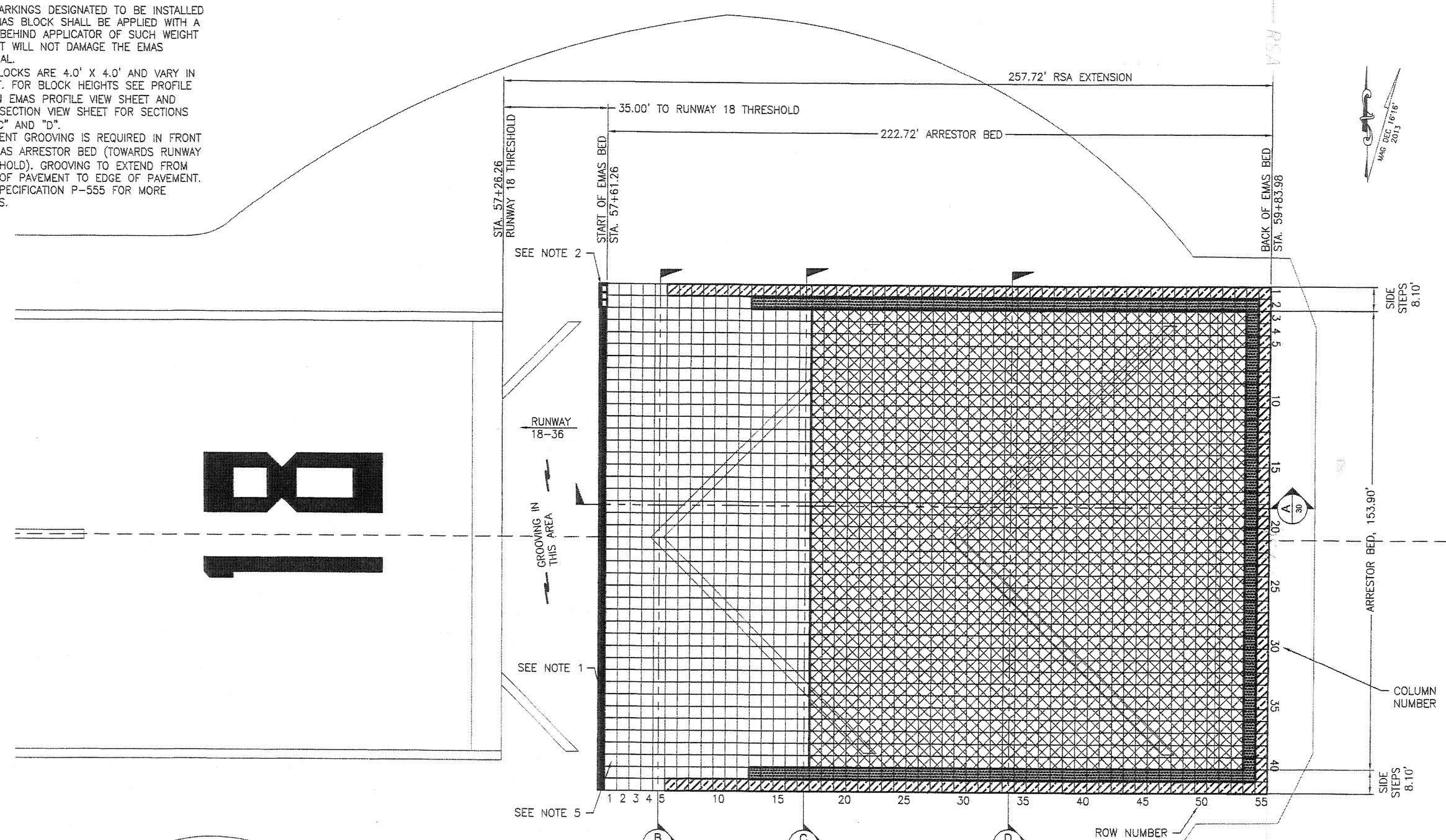
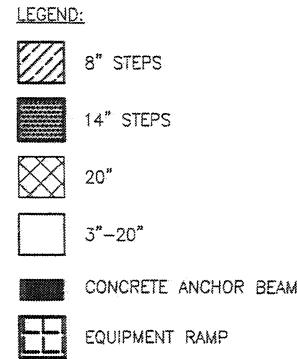
KODIAK AIRPORT
KODIAK, ALASKA
RUNWAY SAFETY AREA EXTENSION
PROJECT No. 53587
AIP No. 3-02-0158-017-2014
RUNWAY 25
EMAS SECTION VIEW

DATE:
3/18/2014
SHEET:
28 OF 39
AS-BUILT SHEET:
OF

- NOTE:
1. A DEBRIS DEFLECTOR ASSEMBLY WILL BE INSTALLED ON TOP OF THE CONCRETE GRADE BEAM PRIOR TO BLOCK INSTALLATION. SEE DETAILS 1, 3, 4, & 7 ON EMAS DETAILS SHEET.
 2. DEBRIS DEFLECTOR ASSEMBLY IS NOT TO BE INSTALLED IN FRONT OF EQUIPMENT RAMP. A CONCRETE ENTRY RAMP WILL BE USED TO RISE FROM FLUSH WITH THE PAVEMENT TO THE 3" NOMINAL BLOCK HEIGHT. SEE DETAIL 8, EMAS PROFILE SHEET.
 3. EXCLUDING THE FIRST ROW, BLOCKS INSTALLED WITH A 0.05' (\approx 1/2") GAP.

4. ALL MARKINGS DESIGNATED TO BE INSTALLED ON EMAS BLOCK SHALL BE APPLIED WITH A WALK BEHIND APPLICATOR OF SUCH WEIGHT THAT IT WILL NOT DAMAGE THE EMAS MATERIAL.
5. ALL BLOCKS ARE 4.0' X 4.0' AND VARY IN HEIGHT. FOR BLOCK HEIGHTS SEE PROFILE "A" ON EMAS PROFILE VIEW SHEET AND EMAS SECTION VIEW SHEET FOR SECTIONS "B", "C" AND "D".
6. PAVEMENT GROOVING IS REQUIRED IN FRONT OF EMAS ARRESTOR BED (TOWARDS RUNWAY THRESHOLD). GROOVING TO EXTEND FROM EDGE OF PAVEMENT TO EDGE OF PAVEMENT.
7. SEE SPECIFICATION P-555 FOR MORE DETAILS.

Date Rec'd: 3/19/2014, 12:06 PM
Sheet: 1
Layout Name: EMAS 2
File Path and Name: \EMAS\2\Airport Engineering\US_Airports\Kodiak\Arrestor Bed\EMAS details\EMAS ARRESTOR Bed Drawing.dwg



EMAS LAYOUT PLAN FOR RUNWAY 36 DEPARTURE END (18 END)

20 0 20 40
Scale Feet



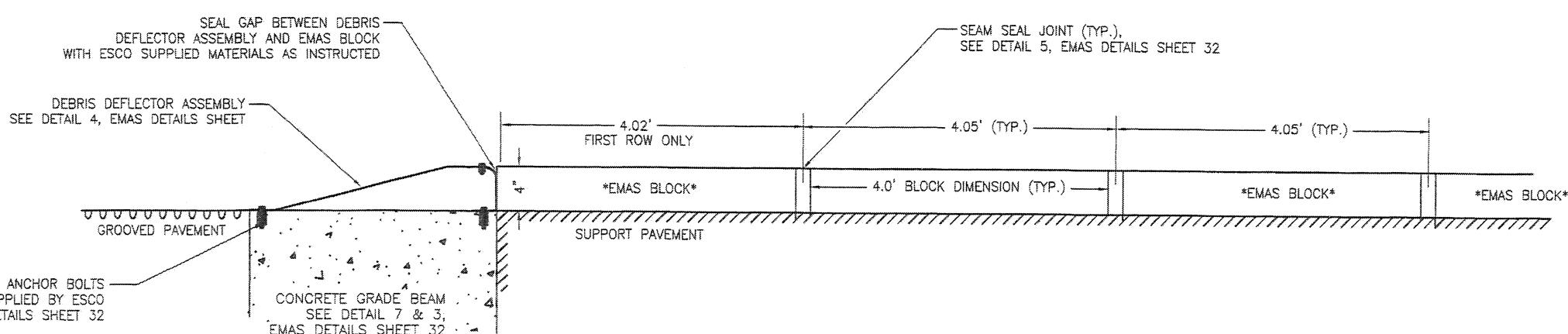
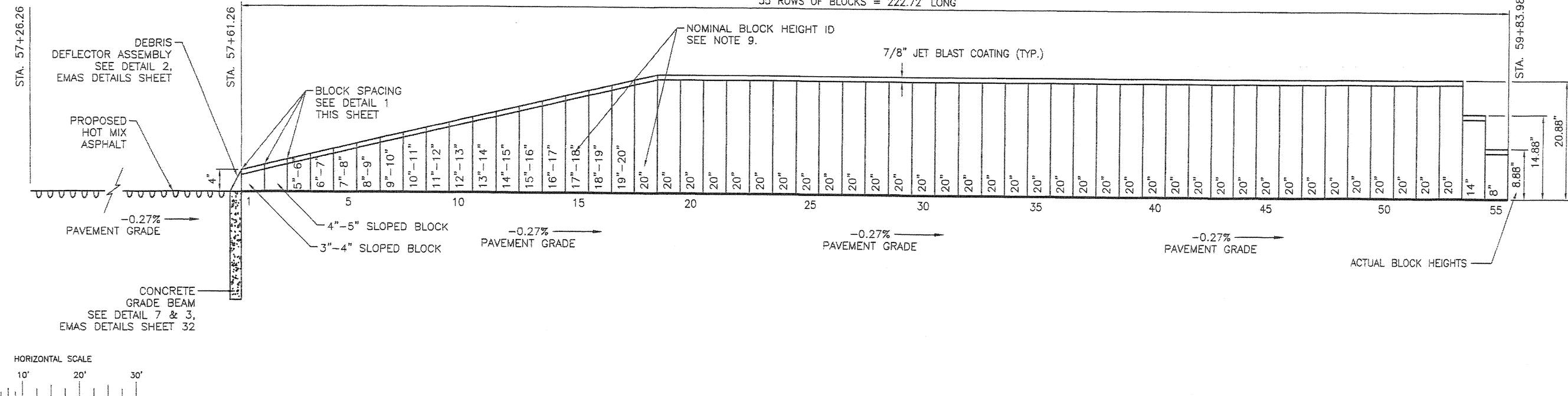
PREPARED BY: Engineered Arresting Systems Corporation

BY	DATE	REVISION

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
CENTRAL REGION

KODIAK AIRPORT
KODIAK, ALASKA
RUNWAY SAFETY AREA EXTENSION
PROJECT No. 53587
AIP No. 3-02-0158-017-2014
RUNWAY 18
EMAS PLAN VIEW

DATE: 3/18/2014
SHEET: 29 OF 39
AS-BUILT SHEET: 0

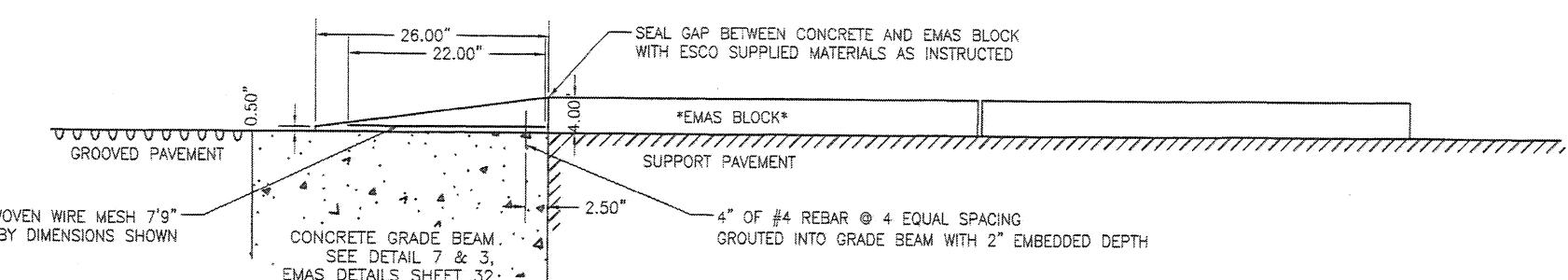


1 CONCRETE GRADE BEAM & BLOCK LAYOUT

SCALE: NTS

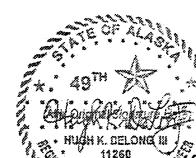
EMAS GENERAL NOTES:

- THE CONTRACTOR SHALL COORDINATE WITH EMAS MANUFACTURER TO SCHEDULE AND ACCEPT DELIVERY OF THE EMAS BLOCKS.
- THE CONTRACTOR SHALL BEGIN BLOCK INSTALLATION AT STATION 57+61.26 BUTTING THE FIRST ROW OF BLOCKS AGAINST THE DEBRIS DEFLECTOR.
- AT THE END OF EACH WORKING SHIFT THE CONTRACTOR SHALL LEAVE THE WORK AREA IN A CONDITION SUCH THAT THE NUMBER AND HEIGHT OF INSTALLED BLOCKS IS SYMMETRICAL ABOUT THE RUNWAY CENTERLINE.
- AT THE CONCLUSION OF EACH DAY THE CONTRACTOR SHALL HAVE ALL SURFACE JOINTS SEALED. SEE TYPICAL SEAM SEAL JOINT DETAIL SHEET 32.
- DEBRIS DEFLECTOR ASSEMBLY AND ANCHOR BOLTS WILL BE PROVIDED BY EMAS MANUFACTURER.
- EMAS BED LENGTH TOLERANCE IS -0.1% TO +1%.
- EMAS BED HEIGHT TOLERANCE IS -0.25" TO +0.75".
- EMAS BED ALIGNMENT TOLERANCE IS $\pm 1/8"$ OVER A 20.25' SPAN.
- ALL BLOCKS ARE 4.0' X 4.0' X THICKNESS SHOWN. A JET BLAST COATING IS APPLIED PRIOR TO SHIPPING. FOR EASE OF IDENTIFYING BLOCKS DURING CONSTRUCTION, NOMINAL VALUES ARE USED.
- BLOCKS INSTALLED WITH A 0.05' GAP ($\approx 1/2"$).



8 CAST IN PLACE CONCRETE ENTRY RAMP DETAIL

SCALE: NTS



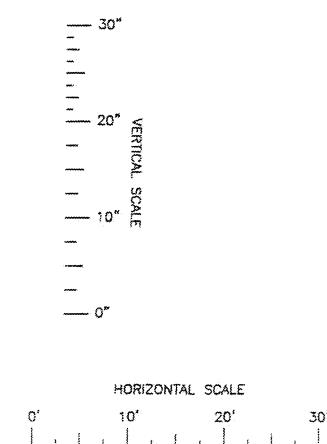
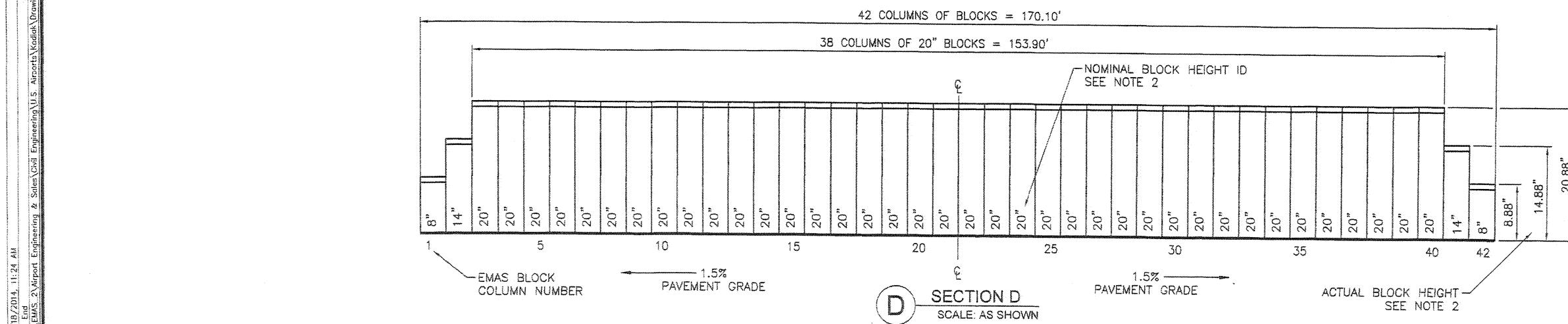
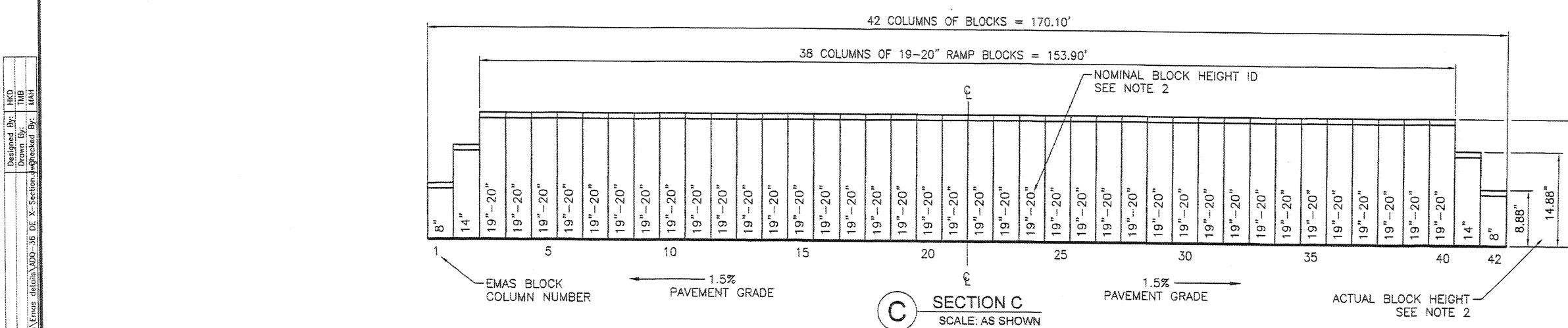
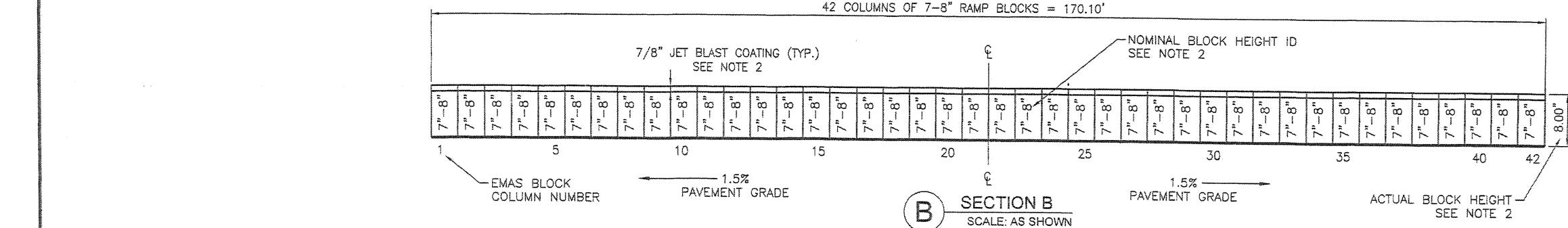
PREPARED BY: Engineered Arresting Systems Corporation

BY	DATE	REVISION

STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 AND PUBLIC FACILITIES
 CENTRAL REGION

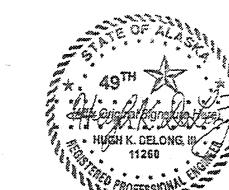
KODIAK AIRPORT
 KODIAK, ALASKA
 RUNWAY SAFETY AREA EXTENSION
 PROJECT NO. 53587
 AIP No. 3-02-0158-017-2014
 RUNWAY 18
 EMAS PROFILE VIEW

DATE:
 3/18/2014
 SHEET:
 30 OF 39
 AS-BUILT SHEET:
 OF



EMAS SECTION VIEW NOTES:

1. EMAS BED WIDTH TOLERANCE IS -0.1% TO +1%
2. ALL BLOCKS ARE 4.0' X 4.0' X THICKNESS SHOWN. A JET BLAST COATING IS APPLIED PRIOR TO SHIPPING. FOR EASE OF IDENTIFYING BLOCKS DURING CONSTRUCTION, NOMINAL VALUES ARE USED.
3. BLOCKS INSTALLED WITH A 0.05' GAP ($\approx 1/2''$)
4. SEE EMAS PLAN VIEW SHEET 29 FOR CROSS SECTION REFERENCES.



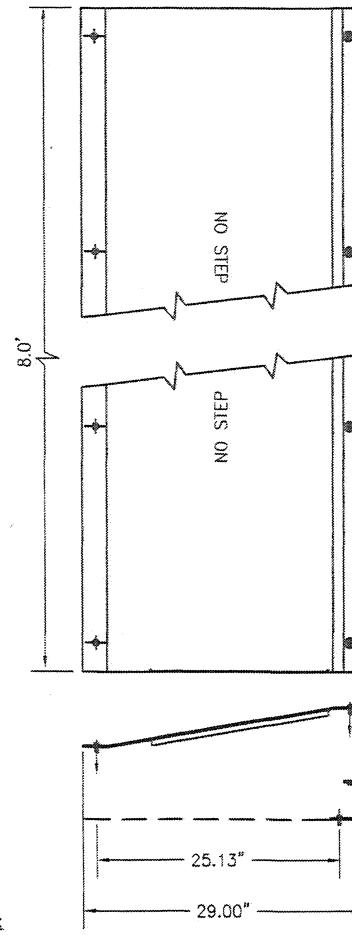
PREPARED BY: Engineered
Arresting Systems Corporation

BY	DATE	REVISION

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
CENTRAL REGION

KODIAK AIRPORT
KODIAK, ALASKA
RUNWAY SAFETY AREA EXTENSION
PROJECT No. 53587
AIP No. 3-02-0158-017-2014
RUNWAY 18
EMAS SECTION VIEW

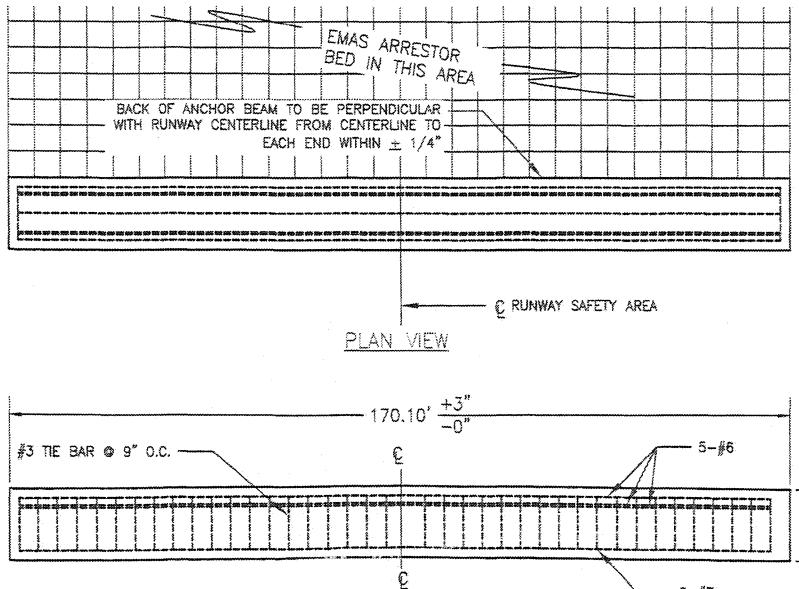
DATE:
3/18/2014
SHEET:
31 of 39
AS-BUILT SHEET:
OF



- NOTE:**
1. DEBRIS DEFLECTOR ASSEMBLY, DRILL TEMPLATE, & HARDWARE PROVIDED BY EMAS MANUFACTURER.
 2. FINAL LOCATION OF BACK OF DEBRIS DEFLECTOR ASSEMBLY DEPENDS ON STRAIGHTNESS OF BEAM. SEE DETAIL 3 FOR ANCHOR BEAM STRAIGHTNESS TOLERANCE.

4 TYPICAL DEBRIS DEFLECTOR ASSEMBLY

SCALE: NTS



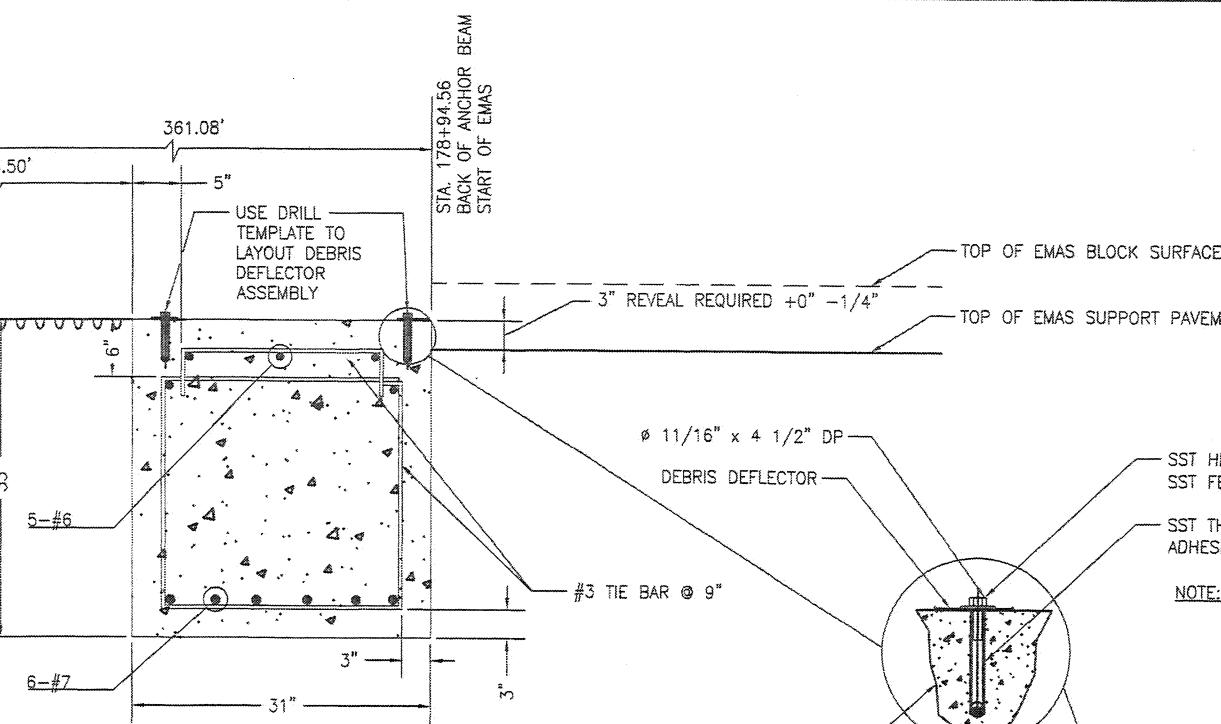
- NOTE:**
1. ALL BARS SHALL BE ASTM-A615, GRADE 60 (TYP.)
 2. DO NOT CHAMFER OR RADIUS ANCHOR BEAM.
 3. SEE P-610 IN SPEC FOR MORE INFO.

PROFILE VIEW

3 CONCRETE ANCHOR BEAM REBAR DETAIL

SCALE: NTS

PREPARED BY: Engineered Arresting Systems Corporation

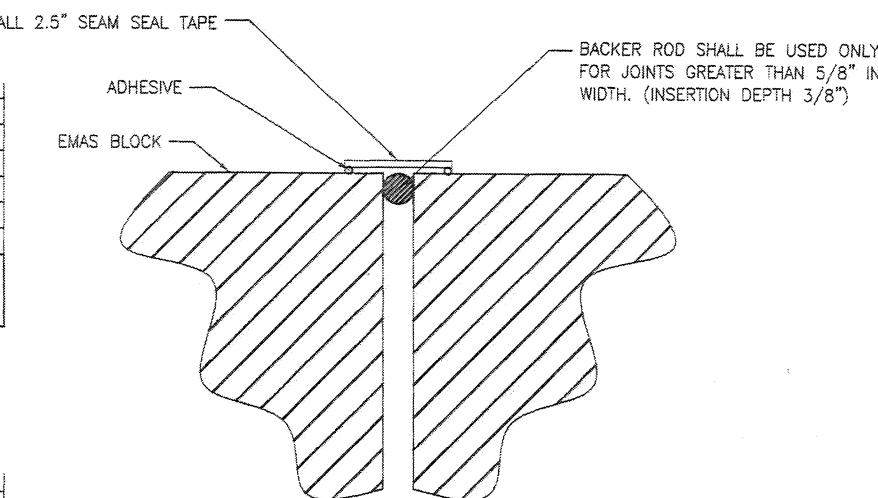


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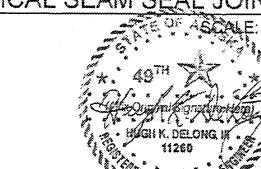
1. ALL BARS SHALL BE ASTM-A615, GRADE 60 (TYP). SEE SPECIFICATION P-610 FOR ADDITIONAL INFORMATION.
2. SEE DETAIL 4 THIS SHEET FOR DEBRIS DEFLECTOR ASSEMBLY DIMENSIONS.
3. SEE DETAIL 3 FOR REBAR PLAN & PROFILE VIEWS AND ALIGNMENT TOLERANCES
4. BEAM SHALL BE POURED MONOLITHICALLY
5. DO NOT CHAMFER OR RADIUS ANCHOR BEAM

2 CONCRETE ANCHOR BEAM DETAIL RUNWAY 07-25

SCALE: NTS

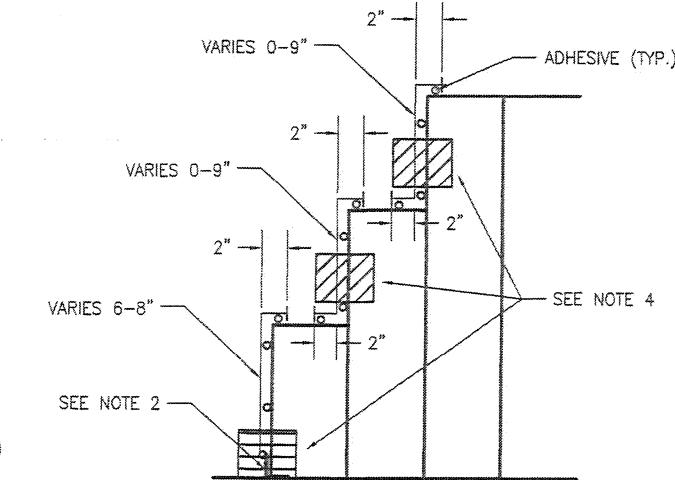


5 TYPICAL SEAM SEAL JOINT



STATE OF ALASKA
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 CENTRAL REGION

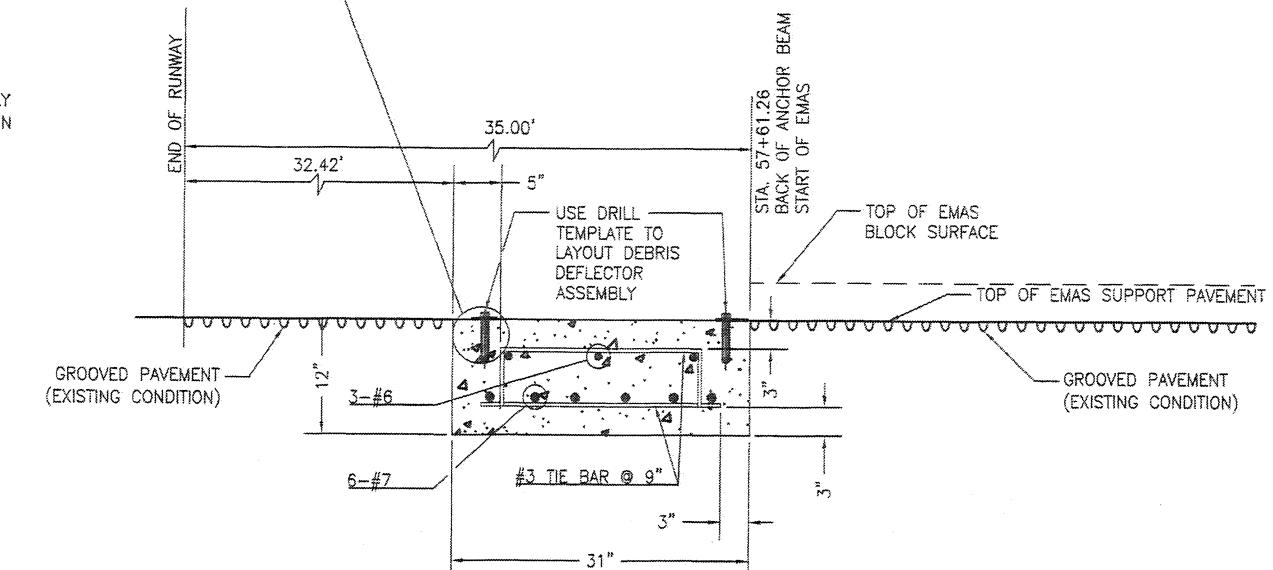
BY	DATE	REVISION



6 STEP BLOCK COATINGS

SCALE: NTS

1. APPROXIMATELY 3,000 NET SQ. FT. OF SIDE COATING APPLIED TO VERTICAL SURFACES SUPPLIED BY EMAS MANUFACTURER.
2. PLASTIC RIGHT ANGLE PIECE APPLIED TO SIDES AND BACK OF EMAS AS SHOWN.
3. EMAS MANUFACTURER WILL SUPPLY SIDE COATING MATERIAL, ADHESIVES, VENTS, & PLASTIC RIGHT ANGLE PIECES.
4. VENTS TO BE INSTALLED AT BLOCKS GAPS AS DIRECTED BY ON SITE EMAS MANUFACTURER REPRESENTATIVE.



- NOTE:**
 SEE NOTES FOR DETAIL 2 THIS SHEET.

7 CONCRETE GRADE BEAM DETAIL RUNWAY 18-36

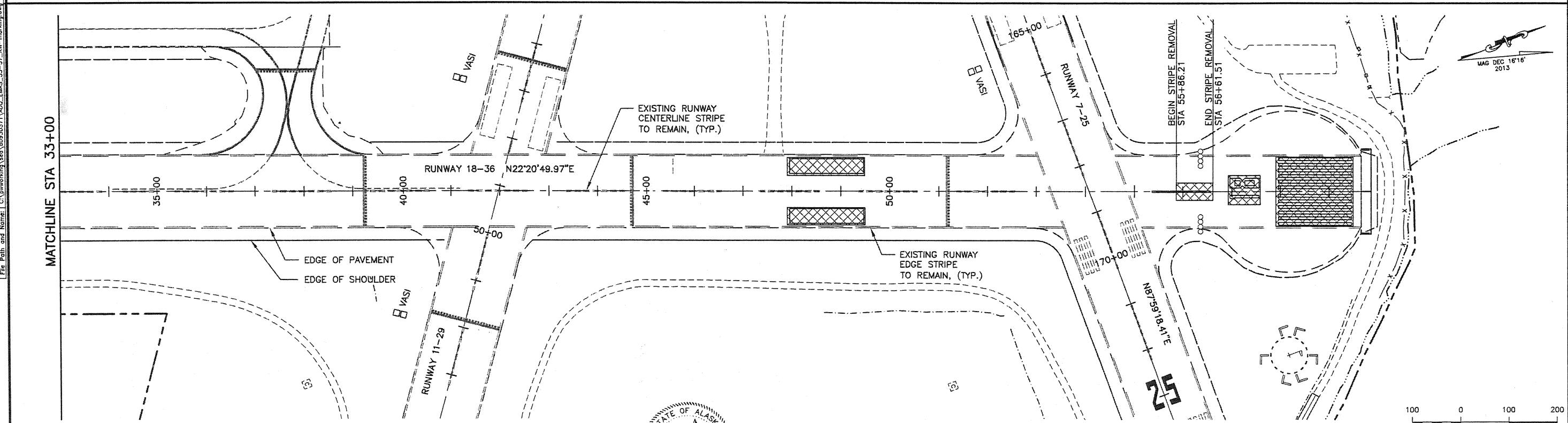
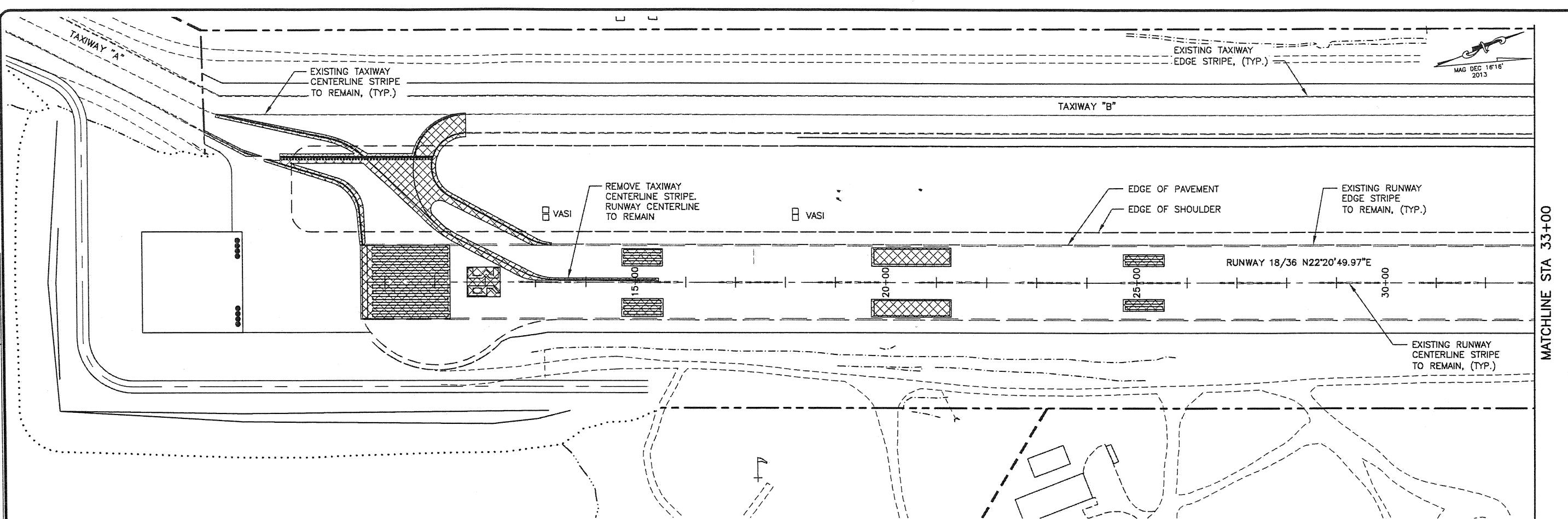
SCALE: NTS

KODIAK AIRPORT
 KODIAK, ALASKA
 RUNWAY SAFETY AREA EXTENSION
 PROJECT No. 53587
 AIP No. 3-02-0158-017-2014
 RUNWAY 25 & RUNWAY 18
 EMAS DETAILS

DATE: 3/18/2014
 SHEET: 32 OF 39
 AS-BUILT SHEET: OF

Date Revised: 3/21/2014, 11:20 AM
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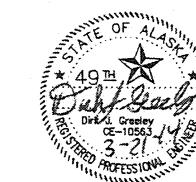
Designed By: D.G.
 Drawn By: D.G./L.W.
 Checked By: J.W.



LEGEND



MARKINGS TO BE REMOVED



PREPARED BY: HDR Alaska, Inc.

BY

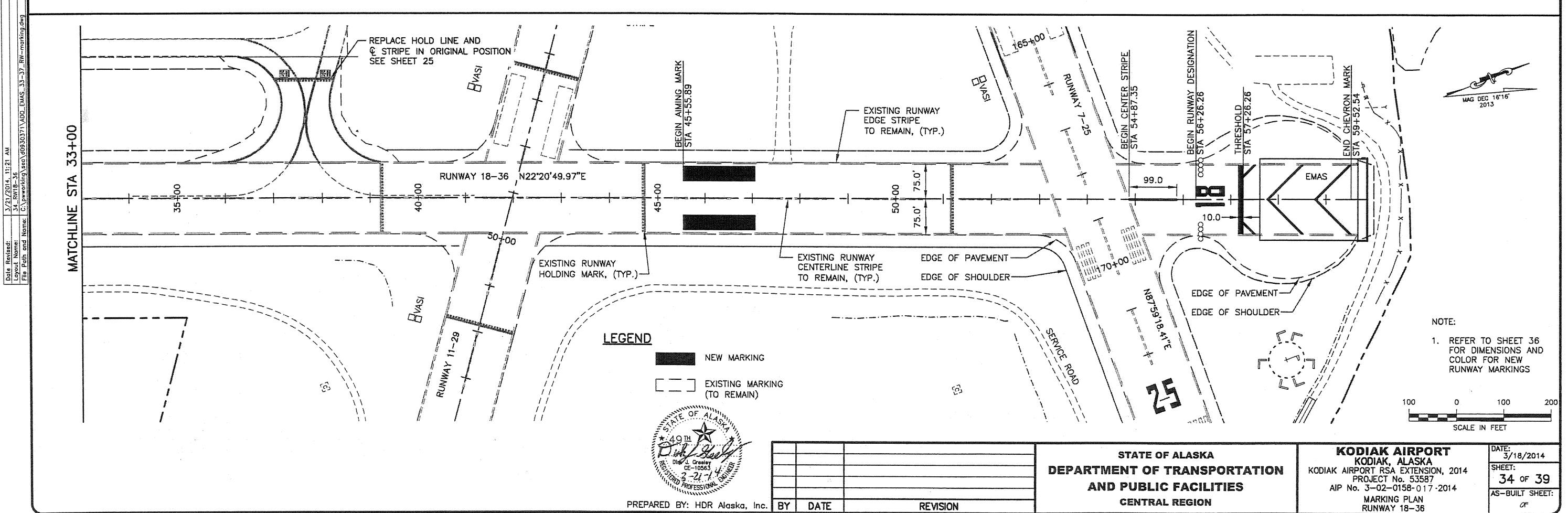
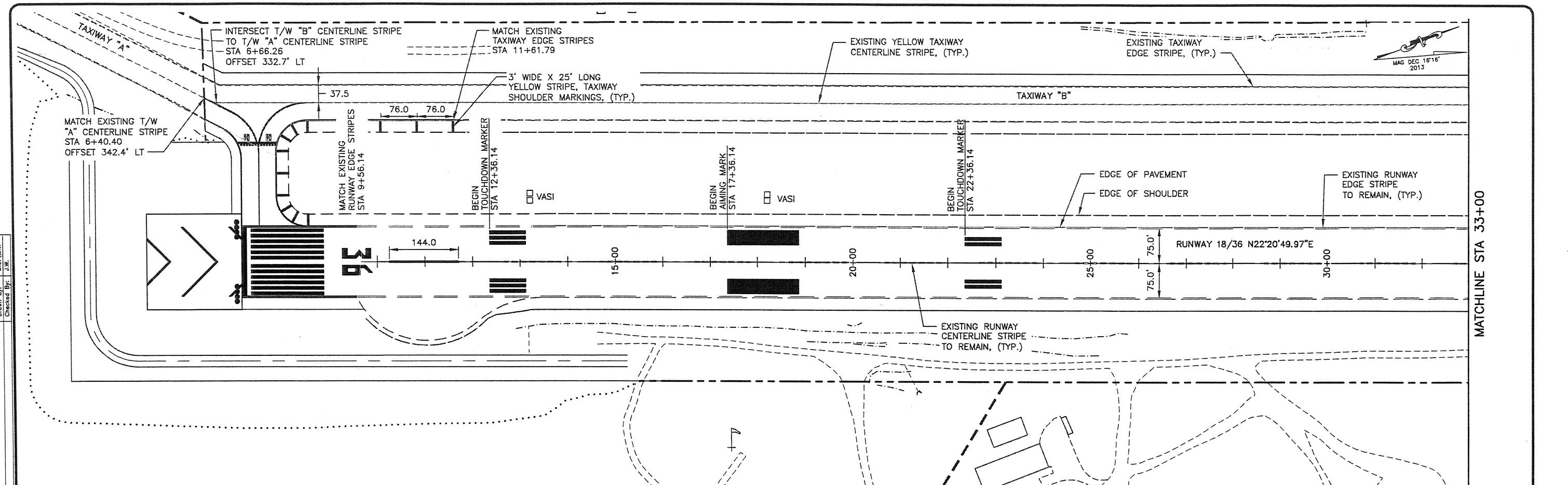
DATE

REVISION

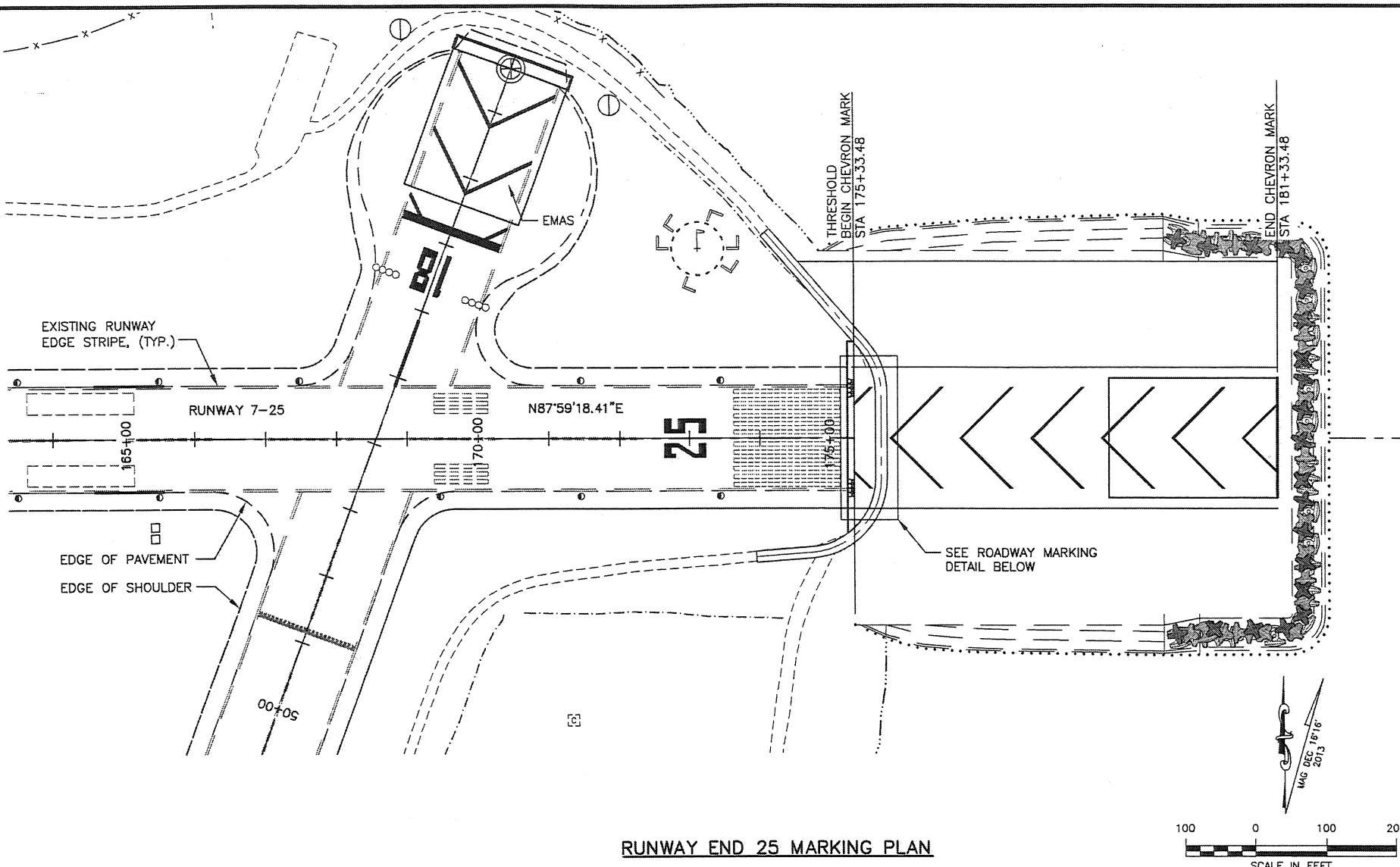
STATE OF ALASKA
**DEPARTMENT OF TRANSPORTATION
 AND PUBLIC FACILITIES**
 CENTRAL REGION

KODIAK AIRPORT
 KODIAK, ALASKA
 KODIAK AIRPORT RSA EXTENSION, 2014
 PROJECT No. 53587
 AIP No. 3-02-0158-017-2014
 MARKING REMOVAL PLAN
 RUNWAY 18-36

DATE:
 3/18/2014
 SHEET:
 33 OF 39
 AS-BUILT SHEET:
 OF



Date Revised: 3/18/2014 12:24 PM
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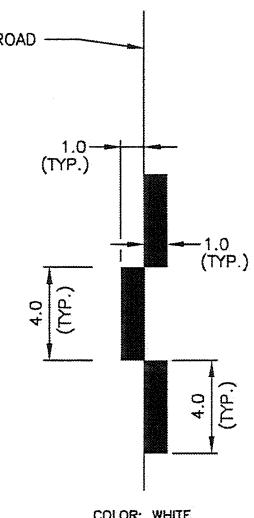


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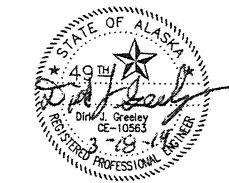
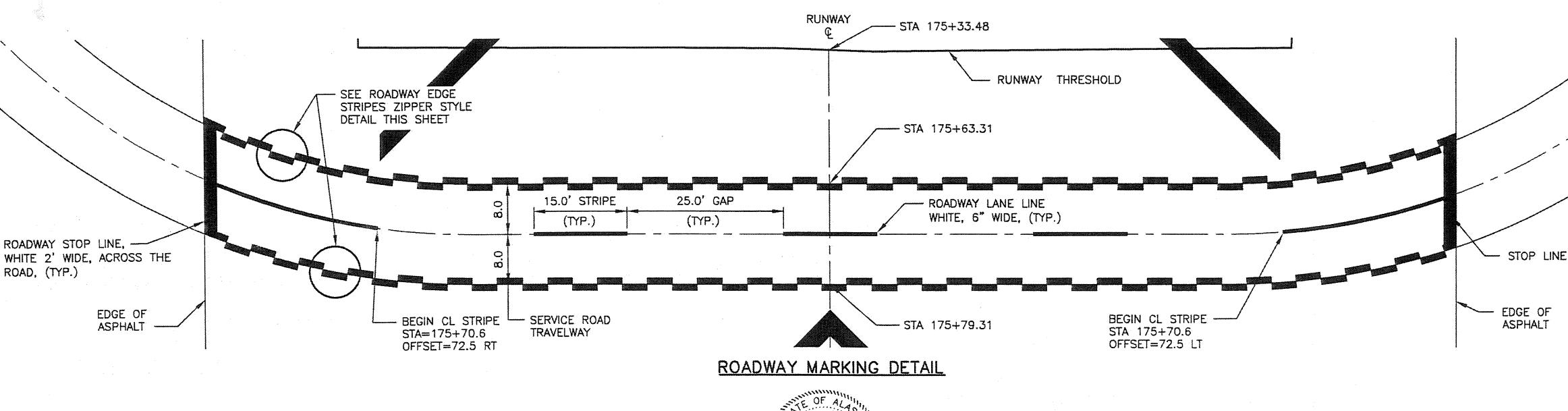
	NEW MARKING
	EXISTING MARKING (TO REMAIN)

NOTE:

1. REFER TO SHEET 36 FOR DIMENSIONS AND COLOR FOR NEW RUNWAY MARKINGS



ROADWAY EDGE STRIPES ZIPPER STYLE



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DATE

REVISION

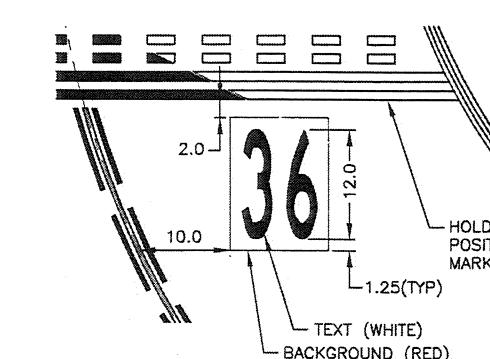
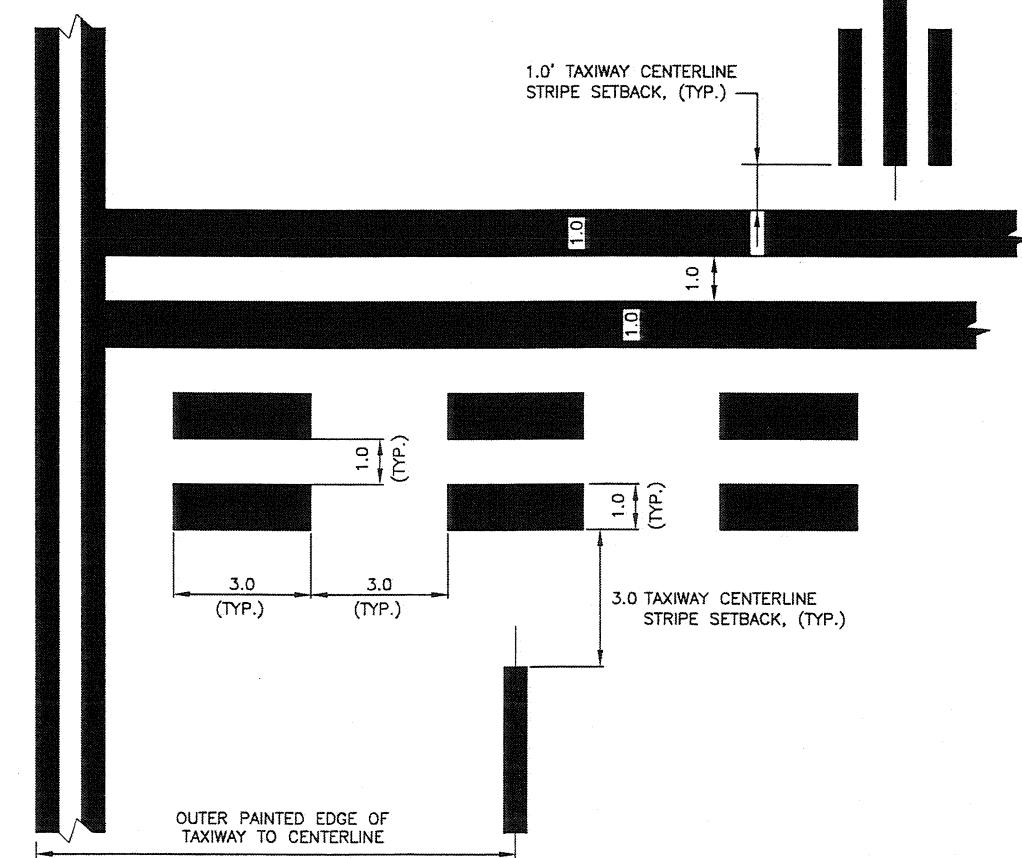
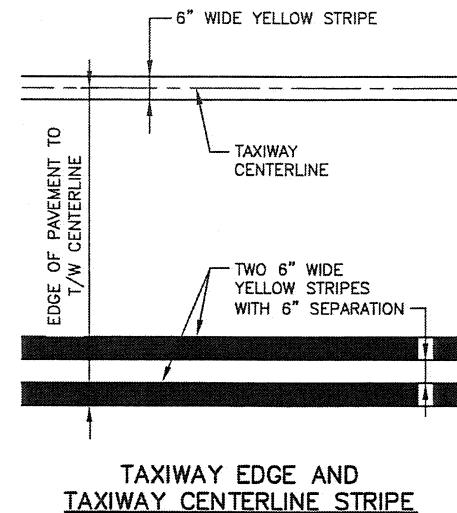
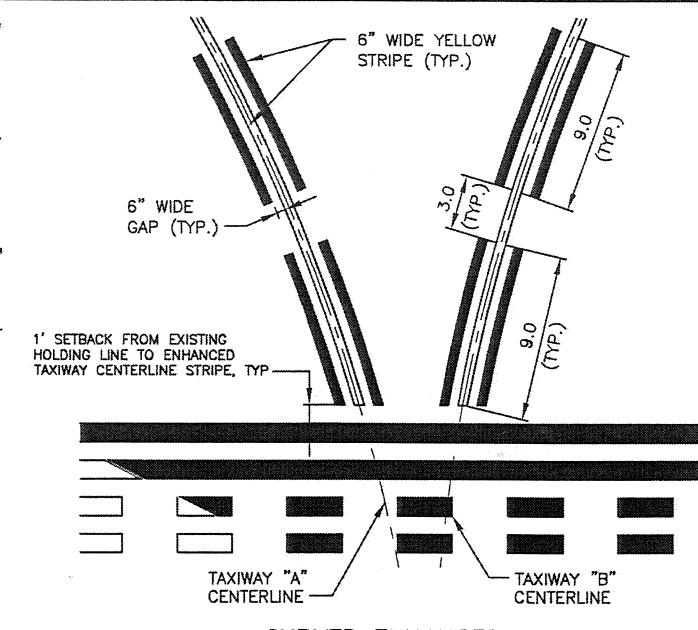
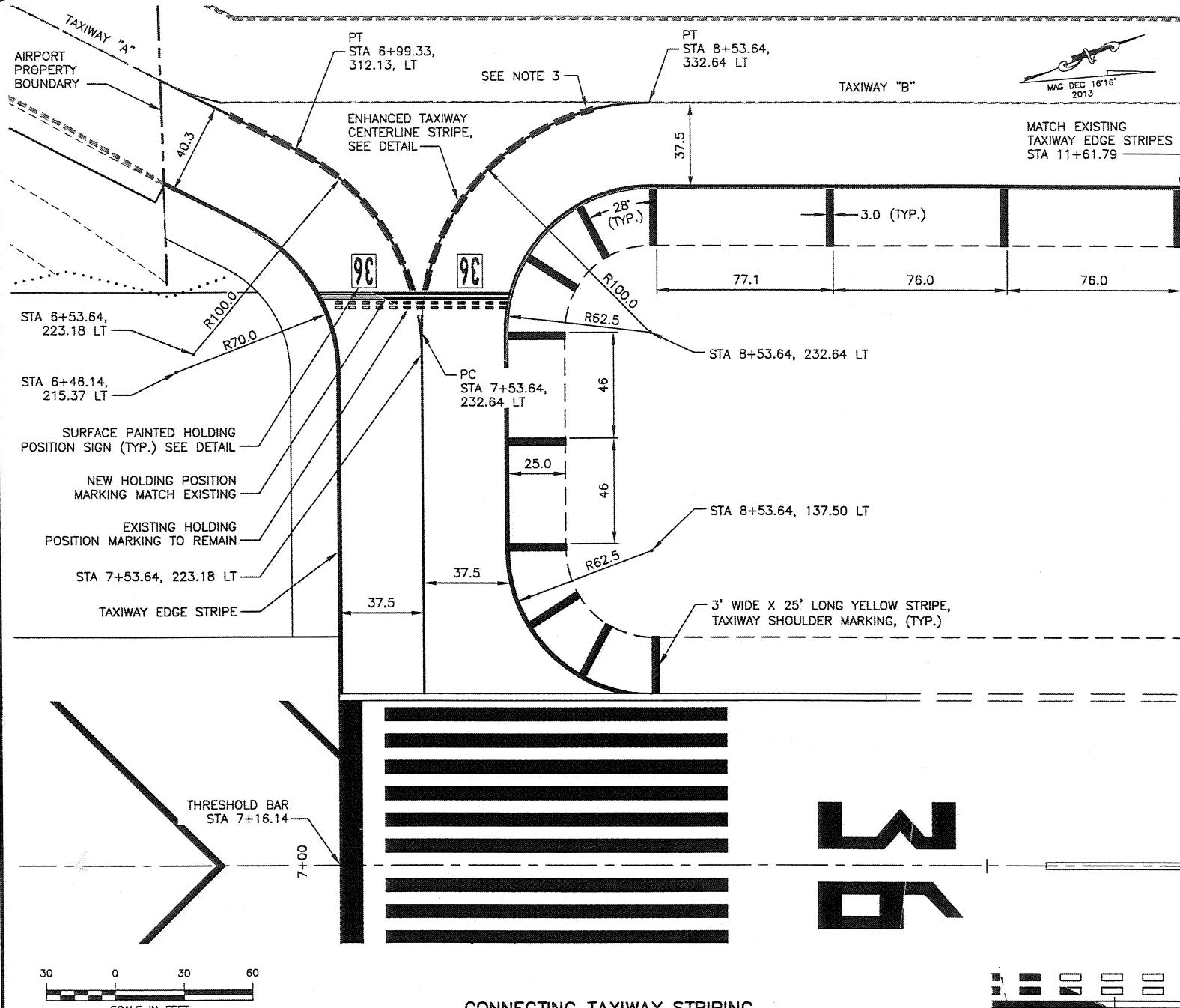
**STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
CENTRAL REGION**

**KODIAK AIRPORT
KODIAK, ALASKA
KODIAK AIRPORT RSA EXTENSION, 2014
PROJECT No. 53587
AIP No. 3-02-0158-017-2014
MARKING PLAN
RUNWAY END 25**

DATE:
3/18/2014
SHEET:
35 of 39
AS-BUILT SHEET:
OF

Date Revised: 3/21/2014, 11:25 AM
 Layout Name: 37_Taxi_Marking_Details
 File Path and Name: C:\Users\Dirk\Downloads\37_Taxi_Marking_Details.dwg

Designed By: D.G.
Drawn By: D.G.\W.
Checked By: J.W.



NOTES:

- ALL MEASUREMENTS ARE TAKEN ALONG THE CENTER OF THE RUNWAY CENTERLINE.
- THE TAXIWAY CENTERLINE MARKINGS MAY BE SHIFTED LEFT OR RIGHT TO AVOID INTERFERENCE WITH THE TAXIWAY CENTERLINE LIGHTS.
- LAST ENHANCED CENTERLINE DASH IS 6 FEET LONG.
- GLASS BEADS ARE APPLIED TO ALL ENHANCED MARKINGS.
- REFER TO SHEET 36 FOR DIMENSIONS AND COLOR FOR NEW RUNWAY MARKINGS NOT DETAILED ON THIS SHEET.

LEGEND

■ NEW MARKING



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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
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CENTRAL REGION

KODIAK AIRPORT
KODIAK, ALASKA
KODIAK AIRPORT RSA EXTENSION, 2014
PROJECT No. 53587
AIP No. 3-02-0158-017-2014
TAXIWAY
MARKING DETAILS

DATE: 3/18/2014
SHEET: 37 OF 39
AS-BUILT SHEET: OF

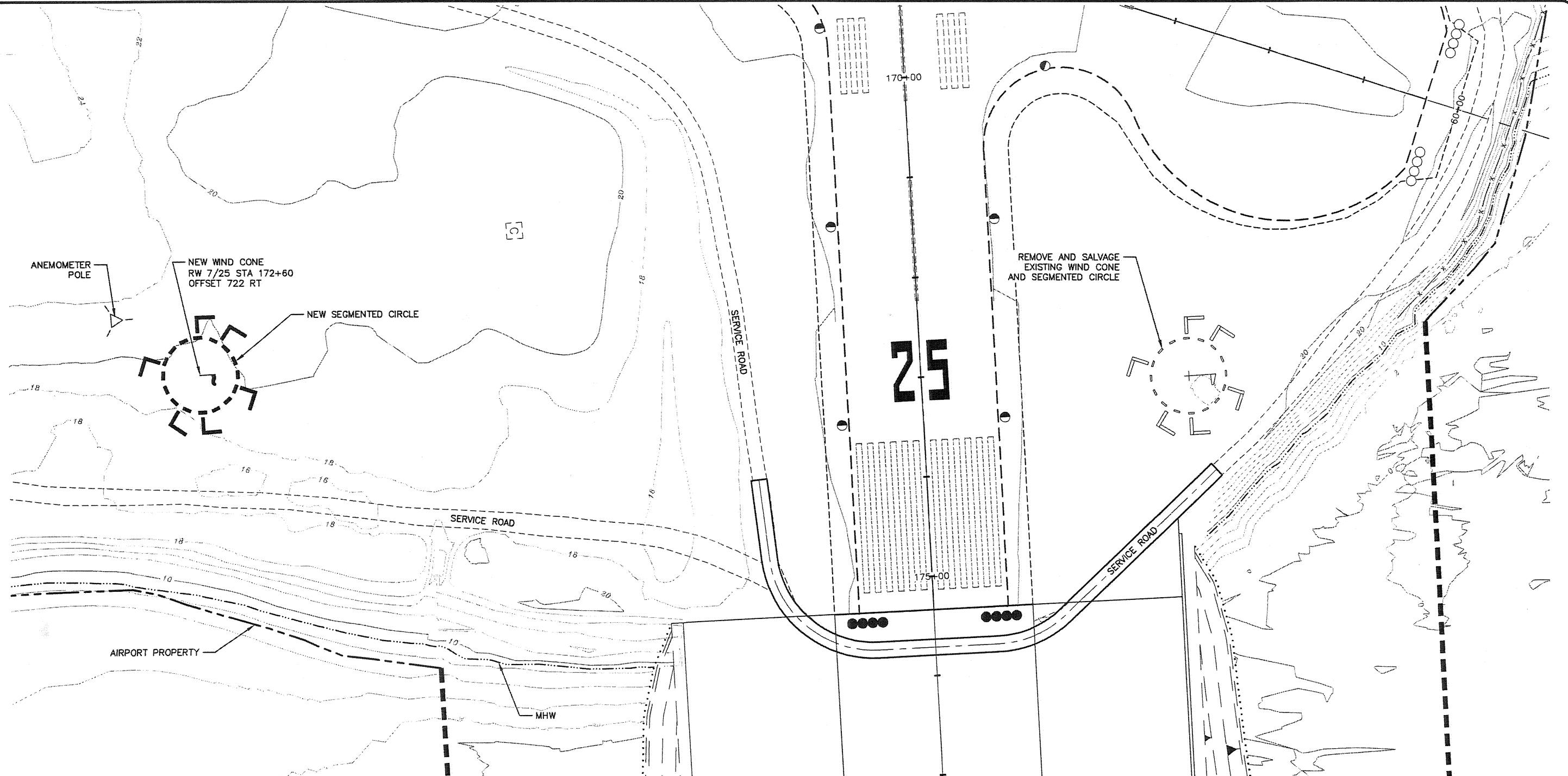
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Drawn By: D.G.

L.W.

J.W.

Checked By:



PREPARED BY: HDR Alaska, Inc.

BY	DATE	REVISION

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
CENTRAL REGION

KODIAK AIRPORT
KODIAK, ALASKA
KODIAK AIRPORT RSA EXTENSION, 2014
PROJECT No. 53587
AIP No. 3-02-0158-017-2014
SEGMENTED CIRCLE AND
WIND CONE PLAN

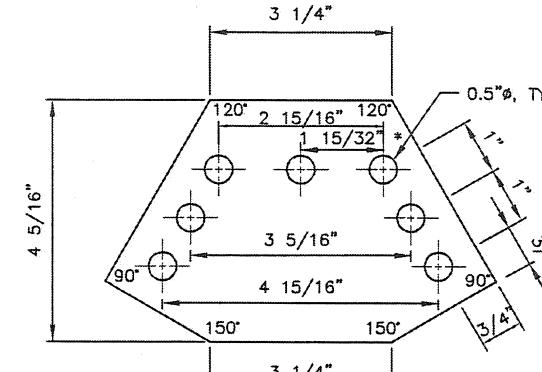
DATE:
3/18/2014
SHEET:
38 OF 39
AS-BUILT SHEET:
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MAG DEC 16°18'
2013

HORIZONTAL TO VERTICAL RATIO= 1:10
(BATHYMETRY CONTOUR INTERVALS)

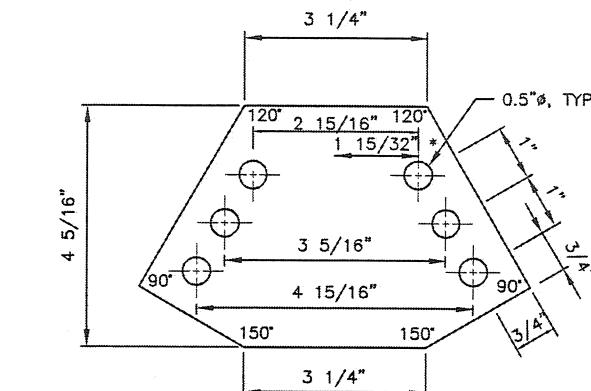
SEGMENTED CIRCLE PANEL NOTES:

- ALL STRUCTURAL MEMBERS ARE 1/8" THICK X 1.5" SQUARE, COLD ROLLED CARBON STEEL ASTM A426, CORNER WELDED, GALVANIZED (SIZE AS INDICATED ON DRAWING).
- STRUCTURAL MEMBERS SHALL BE FASTENED TOGETHER WITH 3/8" X 5" GALVANIZED GRADE 2 STEEL BOLTS WITH NUT AND 2-25# WASHERS EACH.
- GUSSET PLATES SHALL BE FASTENED TOGETHER WITH SIX 3/8" X 3" GALVANIZED GRADE 2 STEEL BOLTS.
- PANEL SHALL BE 1/8" THICK ALUMINUM, ASTM B209, PRE PUNCHED 0.5" FOR FASTENERS AS INDICATED IN DRAWING. FASTEN TO STRUCTURAL MEMBERS THROUGH LONGITUDINAL MEMBERS WITH 3/8" X 5" GALVANIZED GRADE 2 STEEL BOLTS WITH 0.5" DIAMETER WASHERS.
- THE GUSSET PLATES SHALL BE FABRICATED FROM 1/4" STEEL PLATE, ASTM A36; GALVANIZED.
- ASSURE EACH PANEL IS RECONSTRUCTED TO THE SAME TOP ELEVATION.

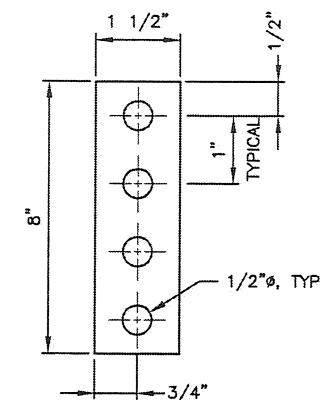


* TOP GUSSET PLATES ONLY

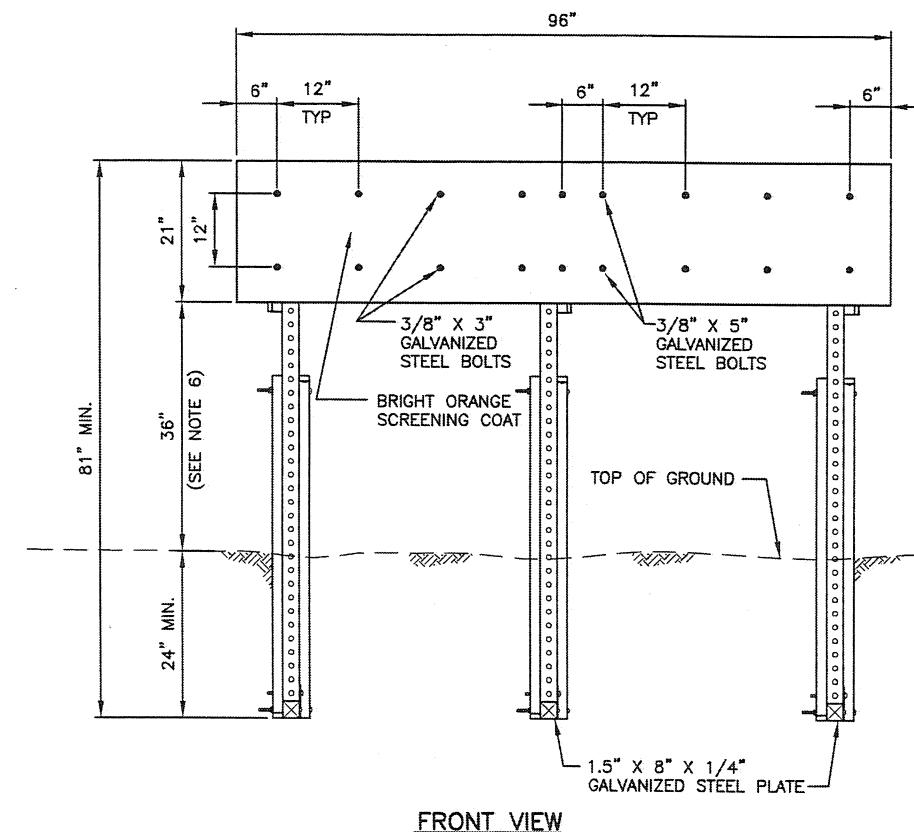
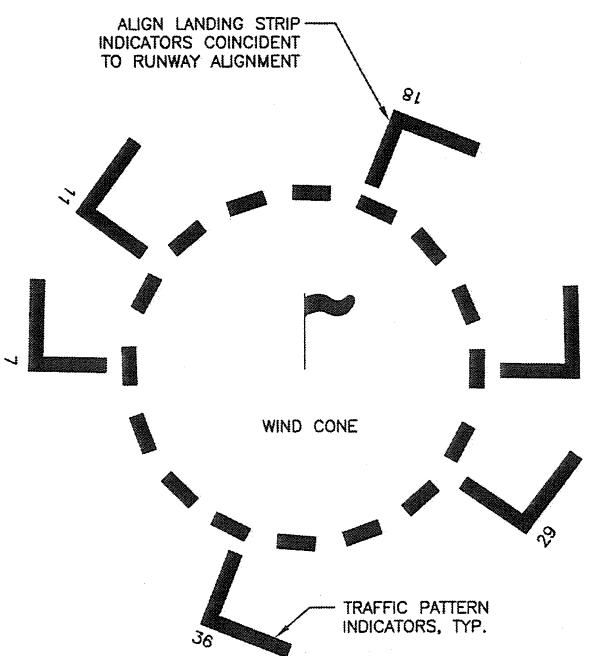
GUSSET PLATE "A" DETAIL
NTS



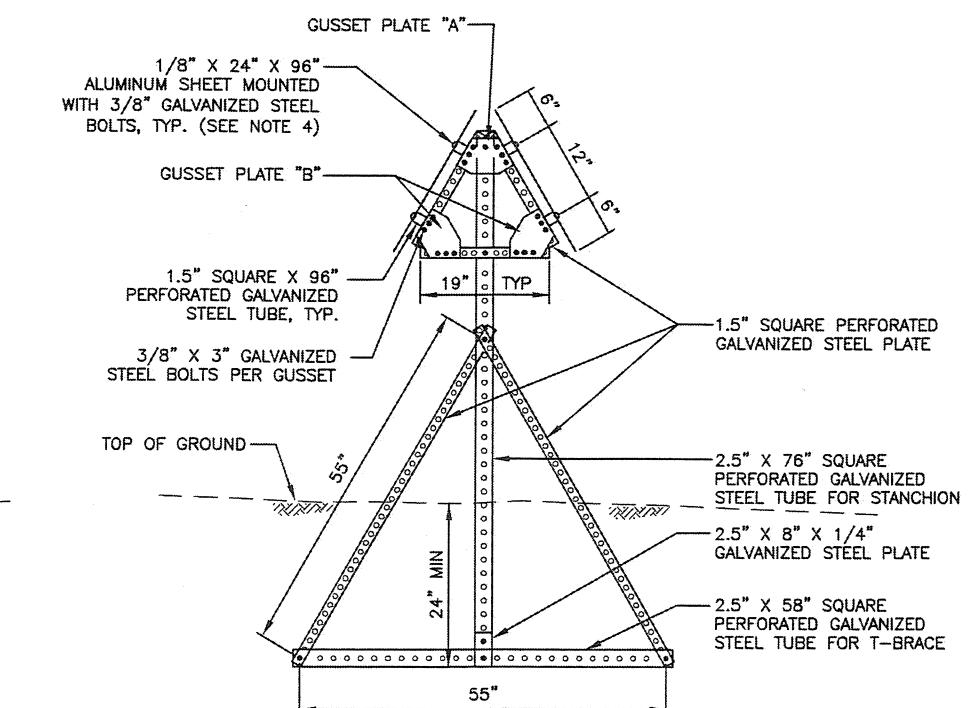
GUSSET PLATE "B" DETAIL
NTS



SPICE PLATE DETAIL
NTS

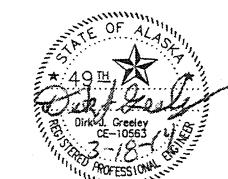


FRONT VIEW



SIDE VIEW

SEGMENTED CIRCLE LAYOUT
NTS



BY	DATE	REVISION

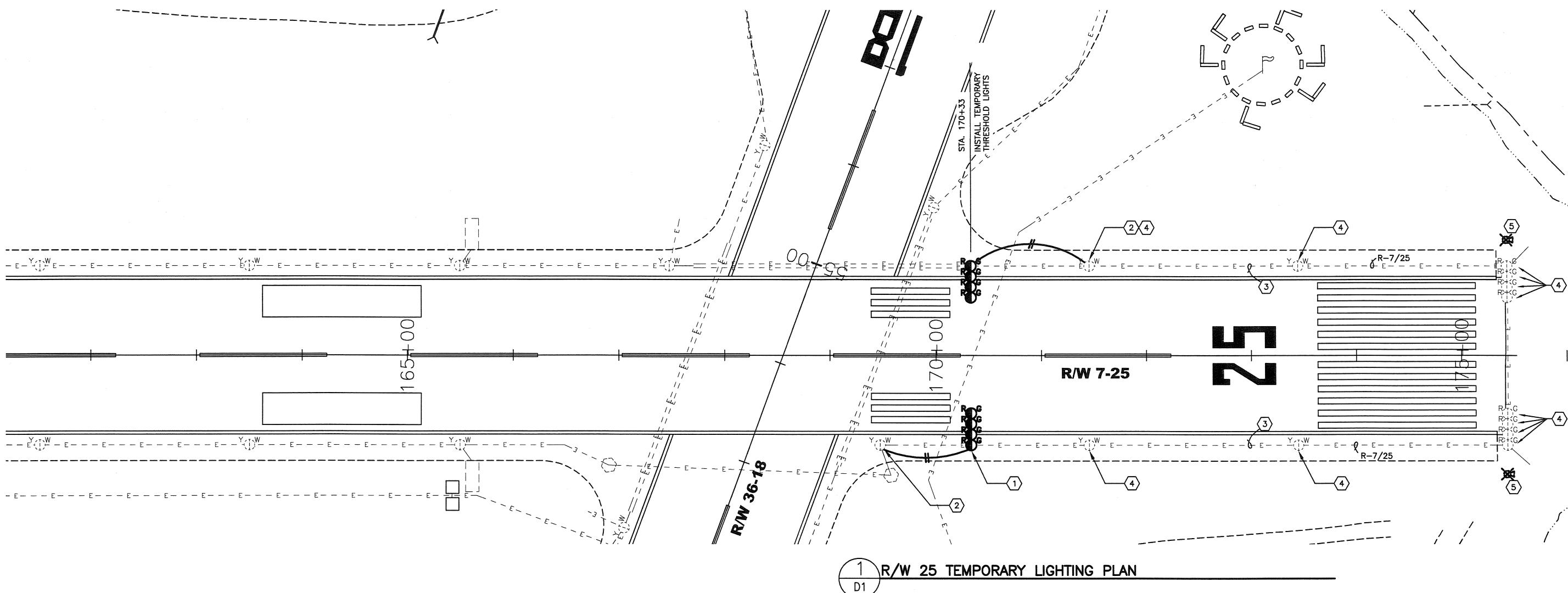
PREPARED BY: HDR Alaska, Inc.

STATE OF ALASKA
**DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES**
CENTRAL REGION

KODIAK AIRPORT
KODIAK, ALASKA
KODIAK AIRPORT RSA EXTENSION, 2014
PROJECT No. 53587
AIP No. 3-02-0158-017-2014
SEGMENTED CIRCLE DETAILS

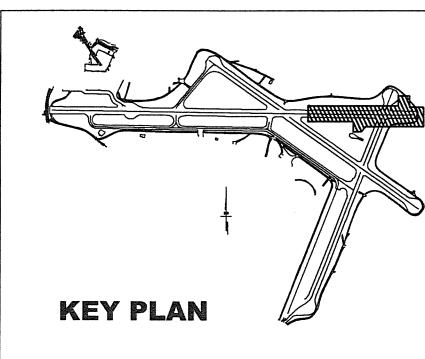
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SHEET: 39 OF 39
AS-BUILT SHEET:
OF

Date Requested: 3/18/2014, 2:37 PM
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 Drawings - R5A\Working Drawings - R5A\1300.Dwg



TEMPORARY LIGHTING LEGEND:

- R/W - RUNWAY
- XFMR - TRANSFORMER
- T/W - TAXIWAY
- LFMC - LIQUITIGHT FLEXIBLE METAL CONDUIT
- SDCB - STORM DRAIN CATCH BASIN
- TEMPORARY RUNWAY THRESHOLD LIGHT - HIGH INTENSITY
- EXISTING TAXIWAY LIGHT (TO REMAIN)
- EXISTING RUNWAY EDGE LIGHT (TO REMAIN)
- EXISTING RUNWAY THRESHOLD LIGHT (TO REMAIN)
- EXISTING ELECTRIC MANHOLE (TO REMAIN)
- EXISTING HANDHOLE (TO REMAIN)
- EXISTING CONCRETE ENCASE DUCT BANK (TO REMAIN)
- EXISTING AIRPORT SIGN (TO REMAIN)
- EXISTING UNDERGROUND CONDUIT (TO REMAIN)
- EXISTING UNDERGROUND ELECTRIC (TO REMAIN)
- EXISTING UNDERGROUND COMMUNICATION (TO REMAIN)
- EXISTING UNDERGROUND ELECTRIC UTILITY (TO REMAIN)
- EXISTING UNDERGROUND TELEPHONE UTILITY (TO REMAIN)



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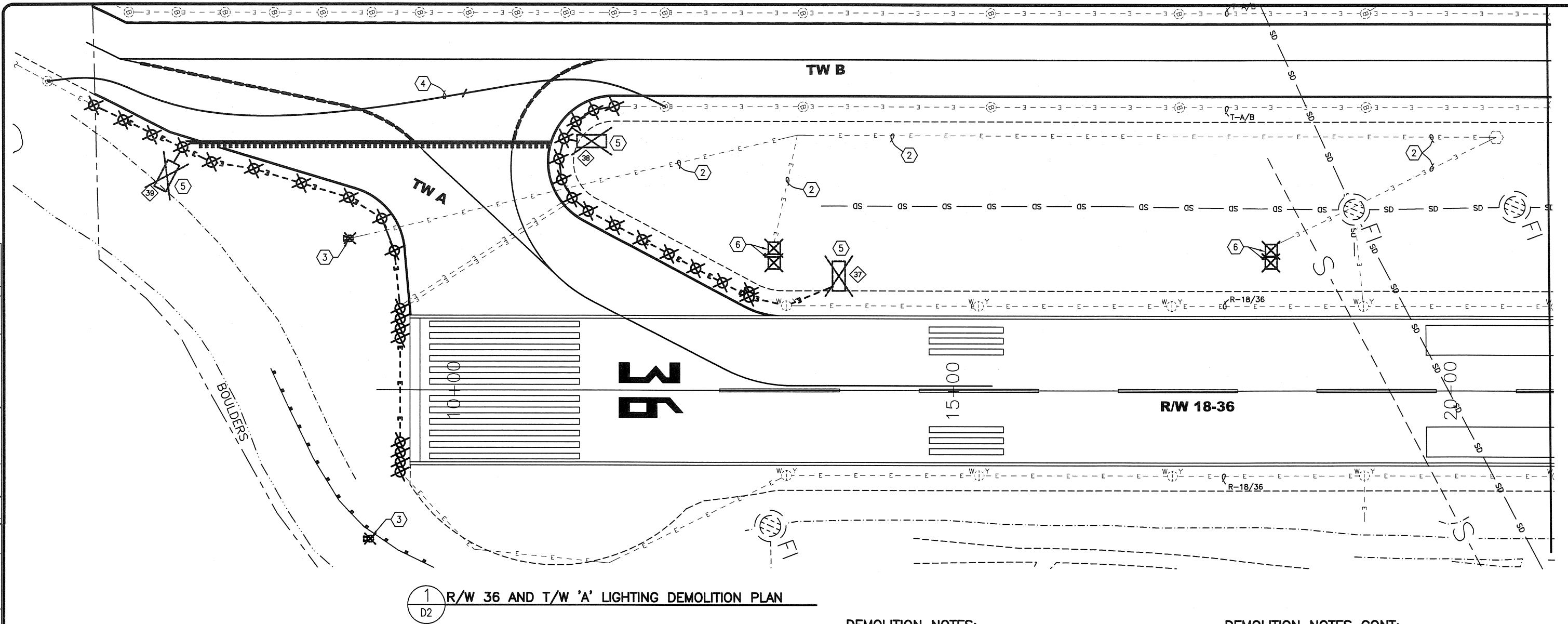
BY	DATE	REVISION

STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 AND PUBLIC FACILITIES
 CENTRAL REGION

KODIAK AIRPORT
 KODIAK, ALASKA
 RUNWAY SAFETY AREA EXTENSION
 PROJECT No. 53587
 AIP No. 3-02-0158-017-2014
 RUNWAY 25 TEMPORARY LIGHTING PLAN

DATE:
 3/18/2014
 SHEET:
 D1 OF D3
 AS-BUILT SHEET:
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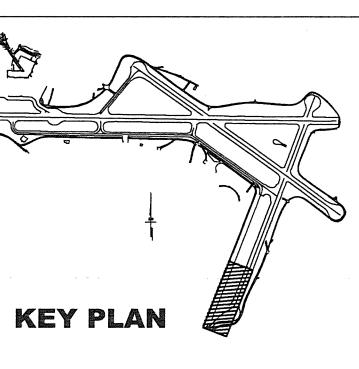
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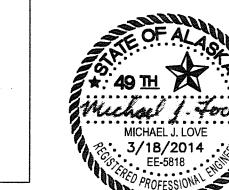
1
D2

DEMOLITION LEGEND:

- R/W - RUNWAY
- XFMR - TRANSFORMER
- T/W - TAXIWAY
- LFMC - LIQUIDTIGHT FLEXIBLE METAL CONDUIT
- SDCB - STORM DRAIN CATCH BASIN
- EXISTING RUNWAY OR TAXIWAY LIGHT AND (TO BE REMOVED)
- EXISTING TAXIWAY LIGHT (TO REMAIN)
- EXISTING RUNWAY EDGE LIGHT (TO REMAIN)
- EXISTING RUNWAY THRESHOLD LIGHT (TO REMAIN)
- EXISTING ELECTRIC MANHOLE (TO REMAIN)
- EXISTING WIND CONE (TO REMAIN)
- EXISTING HANDHOLE (TO REMAIN)
- EXISTING CONCRETE ENCASE DUCT BANK (TO REMAIN)
- EXISTING AIRPORT SIGN (TO REMAIN)
- EXISTING AIRPORT SIGN AND BASE (TO BE REMOVED)
- EXISTING UNDERGROUND CONDUIT (TO REMAIN)
- EXISTING UNDERGROUND ELECTRIC (TO REMAIN)
- EXISTING UNDERGROUND COMMUNICATION (TO REMAIN)
- EXISTING UNDERGROUND ELECTRIC UTILITY (TO REMAIN)
- EXISTING UNDERGROUND TELEPHONE UTILITY (TO REMAIN)



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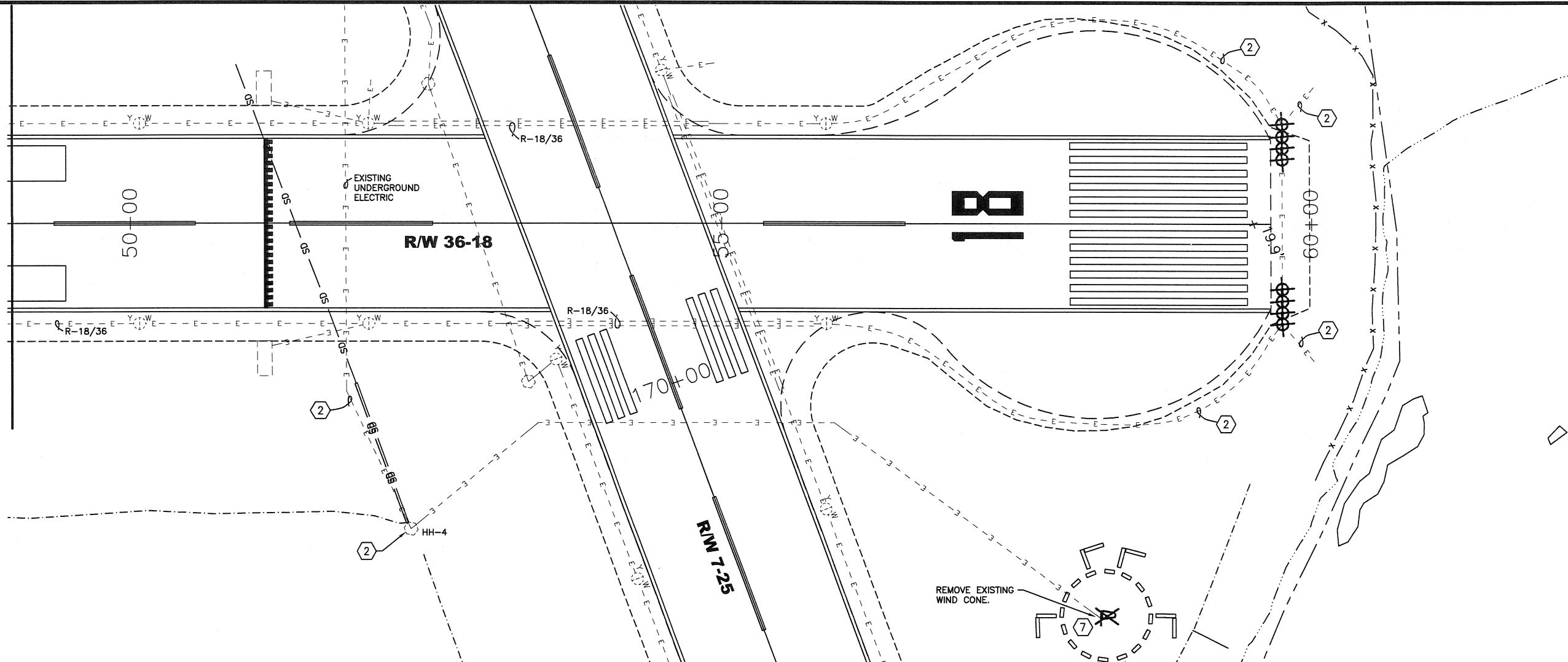


BY	DATE	REVISION

**STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
CENTRAL REGION**

**KODIAK AIRPORT
KODIAK, ALASKA**
 RUNWAY SAFETY AREA EXTENSION
 PROJECT No. 53587
 AIP No. 3-02-0158-017-2014
 R/W 36 AND T/W 'A'
 LIGHTING DEMOLITION PLAN

DATE: 3/18/2014
 SHEET: D2 OF D3
 AS-BUILT SHEET:



R/W 18 LIGHTING DEMOLITION PLAN

DEMOLITION LEGEND:

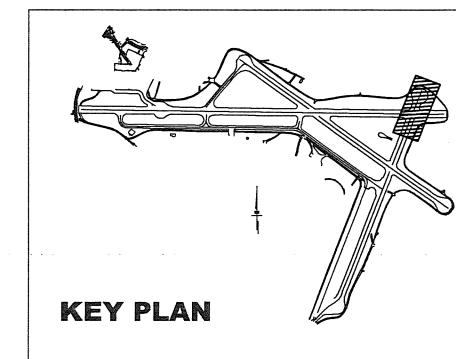
- R/W — RUNWAY
XFMR — TRANSFORMER
T/W — TAXIWAY
LFMC — LIQUIDTIGHT FLEXIBLE METAL CONDUIT
SDCB — STORM DRAIN CATCH BASIN
EXISTING RUNWAY OR TAXIWAY LIGHT AND ⌂ (1)
METAL BASE (TO BE REMOVED)
EXISTING TAXIWAY LIGHT (TO REMAIN)
EXISTING RUNWAY EDGE LIGHT (TO REMAIN)
EXISTING RUNWAY THRESHOLD LIGHT (TO REMAIN)
EXISTING ELECTRIC MANHOLE (TO REMAIN)
EXISTING WIND CONE (TO BE REMOVED)
EXISTING HANDHOLE (TO REMAIN)
EXISTING CONCRETE ENCASE DUCT BANK (TO REMAIN)
EXISTING AIRPORT SIGN (TO REMAIN)

EXISTING AIRPORT SIGN AND BASE (TO BE RELOCATED) SHALL
BE SUBSIDIARY TO PAY ITEM L100n

EXISTING UNDERGROUND CONDUIT (TO REMAIN)
EXISTING UNDERGROUND ELECTRIC (TO REMAIN)
EXISTING UNDERGROUND COMMUNICATION (TO REMAIN)
EXISTING UNDERGROUND ELECTRIC UTILITY (TO REMAIN)
EXISTING UNDERGROUND TELEPHONE UTILITY (TO REMAIN)



A horizontal scale bar with tick marks at 0, 50, and 50. The distance between the first and last tick marks is approximately 10 inches.



DEMOLITION NOTES

() INDICATES REFERENCE NOTE

- ① REMOVE EXISTING EDGE LIGHTS. LIGHT FIXTURES AND TRANSFORMERS ARE TO BE SALVAGED AND OFFERED TO THE STATE. THIS WORK SHALL BE PAID UNDER L-100h.
 - ② EXISTING TO BE MAINTAINED AND WORKED AROUND.
 - ③ EXISTING REIL LIGHT TO BE RELOCATED (BY OTHERS). CONTRACTOR TO REMOVE EXISTING FOUNDATIONS AND PROVIDE NEW FOUNDATIONS, CONDUIT AND WIRING, SEE SHEETS E1, E7, EB AND E9. THIS WORK SHALL BE SUBSIDIARY TO L-135k AND NO SEPARATE PAYMENT WILL BE MADE.
 - ④ INSTALL AND MAINTAIN #8, 5 KV, TYPE C AIRPORT CABLE IN HDPE CONDUIT FOR TEMPORARY JUMPERS TO EDGE LIGHTS AS REQUIRED. SAND BAG, 50lb MINIMUM, AT INTERVAL NOT TO EXCEED 10 FEET ON CENTER. UPON REMOVAL AND DISPOSAL OF TEMPORARY JUMPERS THE CONTRACTOR SHALL RESTORE CIRCUITS AND LIGHTING. THIS WORK SHALL BE SUBSIDIARY TO L-100r AND NO SEPARATE PAYMENT WILL BE MADE.
 - ⑤ REMOVE EXISTING SIGNS. REMOVE SIGN BASES. REMOVE TRANSFORMERS AND SECONDARY CONDUCTORS. ABANDON CONDUIT IN PLACE. SIGNS AND TRANSFORMERS SHALL BE SALVAGED AND OFFERED TO DOT FIELD MAINTENANCE. THIS WORK SHALL BE SUBSIDIARY TO THE PAY ITEM L-100n AND NO SEPARATE PAYMENT WILL BE MADE.
 - ⑥ REMOVE EXISTING VASI BOXES AND FOUNDATIONS. EXISTING CONDUIT AND CONDUCTORS TO BE MAINTAINED AND WORKED AROUND. VASI BOXES SHALL BE SALVAGED AND OFFERED TO THE FAA. THIS WORK SHALL BE SUBSIDIARY TO L-135k AND NO SEPARATE PAYMENT WILL BE MADE.
 - ⑦ REMOVE EXISTING WIND CONE. DISPOSE OF EXISTING FOUNDATION AND RESTORE FINISH GRADE. REMOVE EXISTING CIRCUITY BACK TO HANDHOLE HH-1. EXISTING WIND CONE AND POLE SHALL BE SALVAGED AND OFFERED TO THE STATE. THIS WORK SHALL BE SUBSIDIARY TO PAY ITEM L-107a AND NO SEPARATE PAYMENT WILL BE MADE.

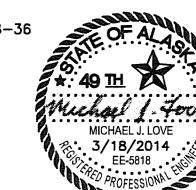
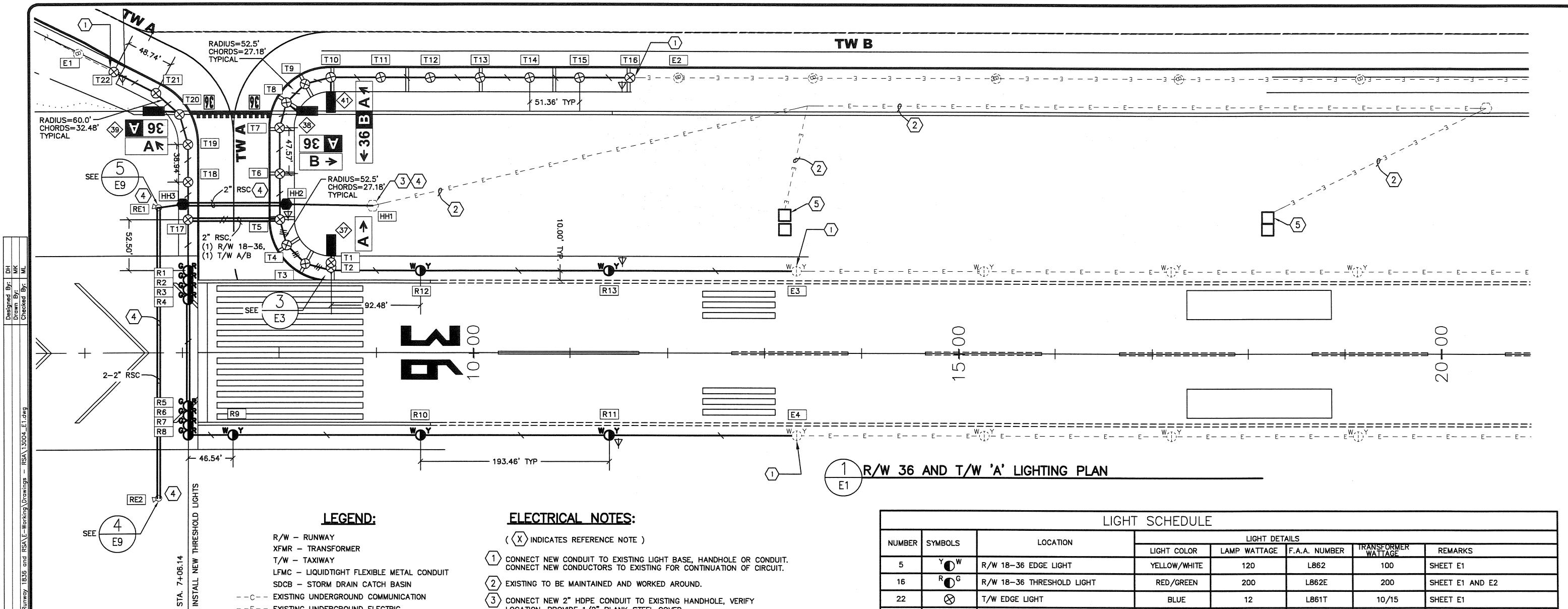
DEMOLITION NOTES CONT:

8. THE CONTRACTOR SHALL DISPOSE OF CONCRETE BASES AND RESTORE GRADE AND FINISH SURFACES DISTURBED BY THE REMOVAL OF THESE STRUCTURES. THIS WORK SHALL BE SUBSIDIARY TO THE CONTRACT AND NO SEPARATE PAYMENT WILL BE MADE.
 9. ABANDONED CONDUCTORS AND GROUND WIRES IN RACEWAY SHALL BE REMOVED, CONDUIT AND DIRECT BURIED WIRING SHALL BE ABANDONED IN PLACE.
 10. ABANDONED CONDUIT RUNS EXPOSED DURING EXCAVATION SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR. THIS WORK SHALL BE SUBSIDIARY TO EXCAVATION AND NO SEPARATE PAYMENT WILL BE MADE.
 11. CONTRACTOR SHALL RESTORE LIGHTING CONTROL AND POWER CIRCUITS TO THE SATISFACTION OF THE AIRPORT MANAGER.



**STATE OF ALASKA
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**KODIAK AIRPORT
KODIAK, ALASKA**
RUNWAY SAFETY AREA EXTENSION
PROJECT No. 53587
AIP No. 3-02-0158-017-2014
R/W 18
LIGHTING DEMOLITION PLAN



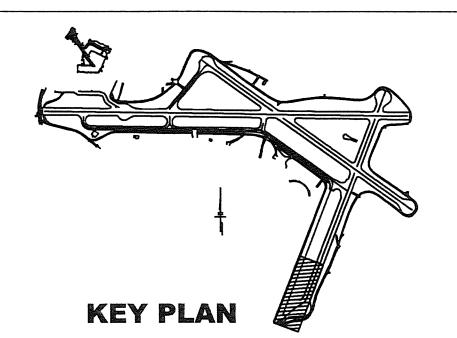
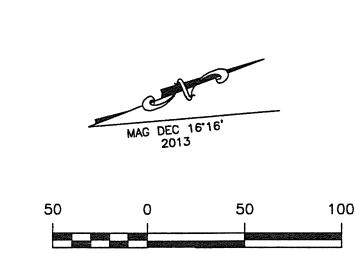
PREPARED BY: MBA Consulting Engineers, Inc.

BY	DATE	REVISION

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
CENTRAL REGION

KODIAK AIRPORT
KODIAK, ALASKA
RUNWAY SAFETY AREA EXTENSION
PROJECT No. 53587
AIP No. 3-02-0158-017-2014
RUNWAY 36
LIGHTING PLAN

DATE:
3/18/2014
SHEET:
E1 OF E19
AS-BUILT SHEET:
GP



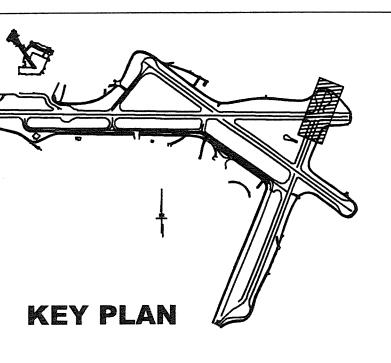
ELECTRICAL NOTES:

(INDICATES REFERENCE NOTE)

- ① CONNECT NEW CONDUIT TO EXISTING LIGHT BASE, HANHOLE OR CONDUIT. CONNECT NEW CONDUCTORS TO EXISTING FOR CONTINUATION OF CIRCUIT.
- ② EXISTING TO BE MAINTAINED AND WORKED AROUND.
- ③ CONNECT NEW 2" HDPE CONDUIT TO EXISTING HANHOLE, VERIFY LOCATION. PROVIDE 1/2" BLANK STEEL COVER.
- ④ EXTEND REIL CONDUIT TO NEW LOCATION SHOWN, SEE SHEET E7. CONSTRUCT NEW CONCRETE FOUNDATIONS AND PROVIDE CONDUIT, WIRING, AND J-BOX PER SHEETS E8 AND E9. CONCRETE AND SURFACE SEALER SHALL MEET THE SPECIFICATION P-610. THIS WORK SHALL BE SUBSIDIARY TO L-135k AND NO SEPARATE PAYMENT WILL BE MADE.
- ⑤ PROVIDE NEW VASI FOUNDATIONS PER SHEETS E10, E11, E12, AND E13 IN EXISTING LOCATION. CONCRETE AND SURFACE SEALER SHALL MEET THE SPECIFICATION P-610. THIS WORK SHALL BE SUBSIDIARY TO L-135k AND NO SEPARATE PAYMENT WILL BE MADE.
6. INSTALL NEW CONDUIT BEFORE RUNWAY, TAXIWAY OR SHOULDER IS PAVED.
7. WHEN INSTALLED IN THE SAME STRUCTURE, DUCT BANK OR CONDUIT CONDUCTORS OF SEPARATE CIRCUITS SHALL BE IDENTIFIED BY COLORABLE INSULATION. THE COLORS GREEN AND WHITE SHALL NOT BE USED TO IDENTIFY CIRCUITS.
8. SERIES CIRCUITS. VERIFY AND MATCH EXISTING COLOR, R/W 18-36: RED, T/W A/B: BLUE.
9. PROVIDE L867 LIGHT BASES AND HANHOLE WITH ADDITIONAL THREADED HUBS TO ACCOMMODATE CONDUIT RUNS AND DRAINS SHOWN.
10. CONNECT NEW HDPE CONDUIT TO EXISTING DISSIMILAR CONDUIT USING ELECTROFUSION COUPLING OR POLYCAM ADAPTER.
11. CONTRACTOR SHALL RESTORE LIGHTING CONTROL AND POWER CIRCUITS, TO THE SATISFACTION OF THE AIRPORT MANAGER.
12. CIRCUITS PULLED THROUGH LIGHT BASES WITHOUT TRANSFORMER TERMINATIONS SHALL BE CONTINUOUS WITH NO SPLICES OR SLACK LOOPS. CIRCUITS CONNECTING TO TRANSFORMER SHALL HAVE SLACK LOOPS PER SPECIFICATION.
13. ADJUST CAUTION ZONE ON R/W 18-36 SOUTH 240 FEET. PROVIDE NEW LENSES FOR MODIFIED FIXTURES.

Date Revised: 3/18/2014, 2:36 PM
Input Name: E2
File Path and Name: Z:\13004\KRA - Kodiak Airport\Runway 1835 and 1836\Drawings - RSA\13004_E2\Lighting

Designed By: DH
Drawn By: MK
Checked By: ML



KEY PLAN



50 0 50 100
SCALE IN FEET

1 R/W 18 LIGHTING PLAN
E2

INSTALL NEW WIND CONE. SEE SHEET E5.
R/W 7-25 STA. 172+60, OFFSET 722 RT.



PREPARED BY: MBA Consulting Engineers, Inc.

BY	DATE	REVISION

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
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CENTRAL REGION

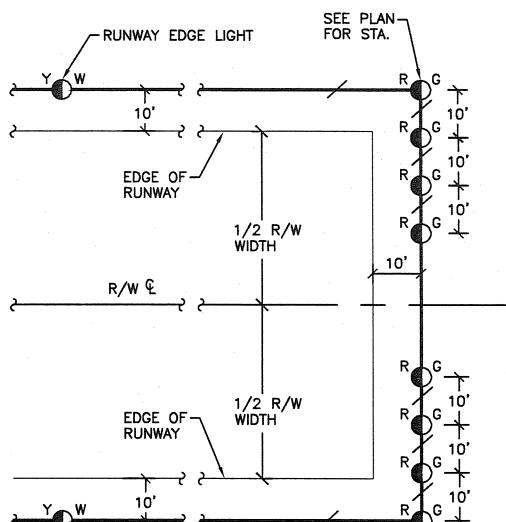
KODIAK AIRPORT
KODIAK, ALASKA
RUNWAY SAFETY AREA EXTENSION
PROJECT No. 53587
AIP No. 3-02-0158-017-2014
RUNWAY 18 LIGHTING PLAN
AND WIND CONE PLAN

DATE:
3/18/2014
SHEET:
E2 OF E19
AS-BUILT SHEET:

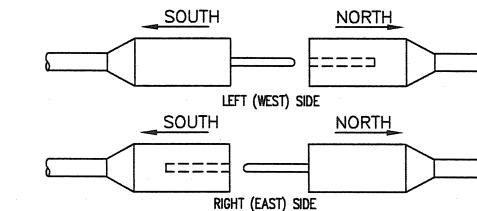
LIGHT FIXTURE SCHEDULE

Number	Lens Color	Type	Wattage		STATION	OFFSET	Location	Circuit #	Remarks
			Lamp	Xfrm					
T 1	Blue	L-861T	12	10/15	RW 18/36 STA: 8+53.64	90.00 L	T/W/A		
T 2	Blue	L-861T	12	10/15	RW 18/36 STA: 8+53.64	85.00 L	T/W/A		
T 3	Blue	L-861T	12	10/15	RW 18/36 STA: 8+27.40	92.03 L	T/W/A		
T 4	Blue	L-861T	12	10/15	RW 18/36 STA: 8+08.18	111.25 L	T/W/A		
T 5	Blue	L-861T	12	10/15	RW 18/36 STA: 8+01.15	137.50 L	T/W/A		
T 6	Blue	L-861T	12	10/15	RW 18/36 STA: 8+01.15	185.07 L	T/W/A		
T 7	Blue	L-861T	12	10/15	RW 18/36 STA: 8+01.15	232.64 L	T/W/A		
T 8	Blue	L-861T	12	10/15	RW 18/36 STA: 8+08.18	258.89 L	T/W/A		
T 9	Blue	L-861T	12	10/15	RW 18/36 STA: 8+27.40	278.10 L	T/W/A		
T 10	Blue	L-861T	12	10/15	RW 18/36 STA: 8+53.66	285.13 L	T/W/A		
T 11	Blue	L-861T	12	10/15	RW 18/36 STA: 9+05.01	285.13 L	T/W/A		
T 12	Blue	L-861T	12	10/15	RW 18/36 STA: 9+56.37	288.12 L	T/W/A		
T 13	Blue	L-861T	12	10/15	RW 18/36 STA: 10+07.73	288.11 L	T/W/A		
T 14	Blue	L-861T	12	10/15	RW 18/36 STA: 10+59.09	288.11 L	T/W/A		
T 15	Blue	L-861T	12	10/15	RW 18/36 STA: 11+10.45	288.10 L	T/W/A		
T 16	Blue	L-861T	12	10/15	RW 18/36 STA: 11+61.79	288.09 L	T/W/A		
T 17	Blue	L-861T	12	10/15	RW 18/36 STA: 7+06.14	137.50 L	T/W/A		
T 18	Blue	L-861T	12	10/15	RW 18/36 STA: 7+06.14	176.44 L	T/W/A		
T 19	Blue	L-861T	12	10/15	RW 18/36 STA: 7+06.14	215.37 L	T/W/A		
T 20	Blue	L-861T	12	10/15	RW 18/36 STA: 6+97.35	246.64 L	T/W/A		
T 21	Blue	L-861T	12	10/15	RW 18/36 STA: 6+73.56	268.75 L	T/W/A		
T 22	Blue	L-861T	12	10/15	RW 18/36 STA: 6+30.16	290.94 L	T/W/A		
R 1	R/G	L-862E	200	200	RW 18/36 STA: 7+06.14	85.00 L	R/W 36		
R 2	R/G	L-862E	200	200	RW 18/36 STA: 7+06.14	75.00 L	R/W 36		
R 3	R/G	L-862E	200	200	RW 18/36 STA: 7+06.14	65.00 L	R/W 36		
R 4	R/G	L-862E	200	200	RW 18/36 STA: 7+06.14	55.00 L	R/W 36		
R 5	R/G	L-862E	200	200	RW 18/36 STA: 7+06.14	55.00 R	R/W 36		
R 6	R/G	L-862E	200	200	RW 18/36 STA: 7+06.14	65.00 R	R/W 36		
R 7	R/G	L-862E	200	200	RW 18/36 STA: 7+06.14	75.00 R	R/W 36		
R 8	R/G	L-862E	200	200	RW 18/36 STA: 7+06.14	85.00 R	R/W 36		
R 9	Y/W	L-862	120	100	RW 18/36 STA: 7+52.68	85.00 R	R/W 36		
R 10	Y/W	L-862	120	100	RW 18/36 STA: 9+46.10	85.00 R	R/W 36		
R 11	Y/W	L-862	120	100	RW 18/36 STA: 11+39.60	85.00 R	R/W 36		
R 12	Y/W	L-862	120	100	RW 18/36 STA: 9+46.14	85.00 L	R/W 36		
R 13	Y/W	L-862	120	100	RW 18/36 STA: 11+39.60	85.00 L	R/W 36		
R 14	R/G	L-862E	200	200	RW 18/36 STA: 57+36.26	85.00 L	R/W 18		
R 15	R/G	L-862E	200	200	RW 18/36 STA: 57+36.26	75.00 L	R/W 18		
R 16	R/G	L-862E	200	200	RW 18/36 STA: 57+36.26	65.00 L	R/W 18		
R 17	R/G	L-862E	200	200	RW 18/36 STA: 57+36.26	55.00 L	R/W 18		
R 18	R/G	L-862E	200	200	RW 18/36 STA: 57+36.26	55.00 R	R/W 18		
R 19	R/G	L-862E	200	200	RW 18/36 STA: 57+36.26	65.00 R	R/W 18		
R 20	R/G	L-862E	200	200	RW 18/36 STA: 57+36.26	75.00 R	R/W 18		
R 21	R/G	L-862E	200	200	RW 18/36 STA: 57+36.26	85.00 R	R/W 18		

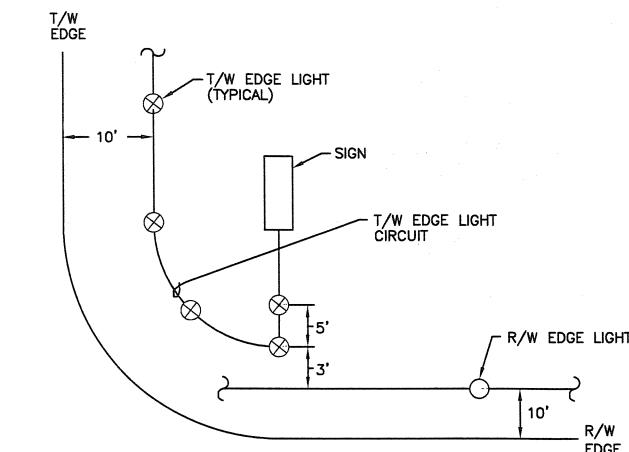
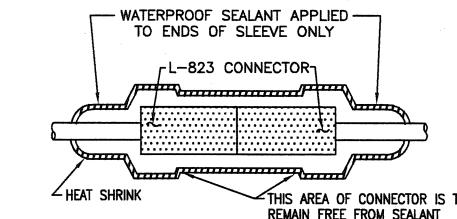
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 Drawn By: MK
 Checked By: ML



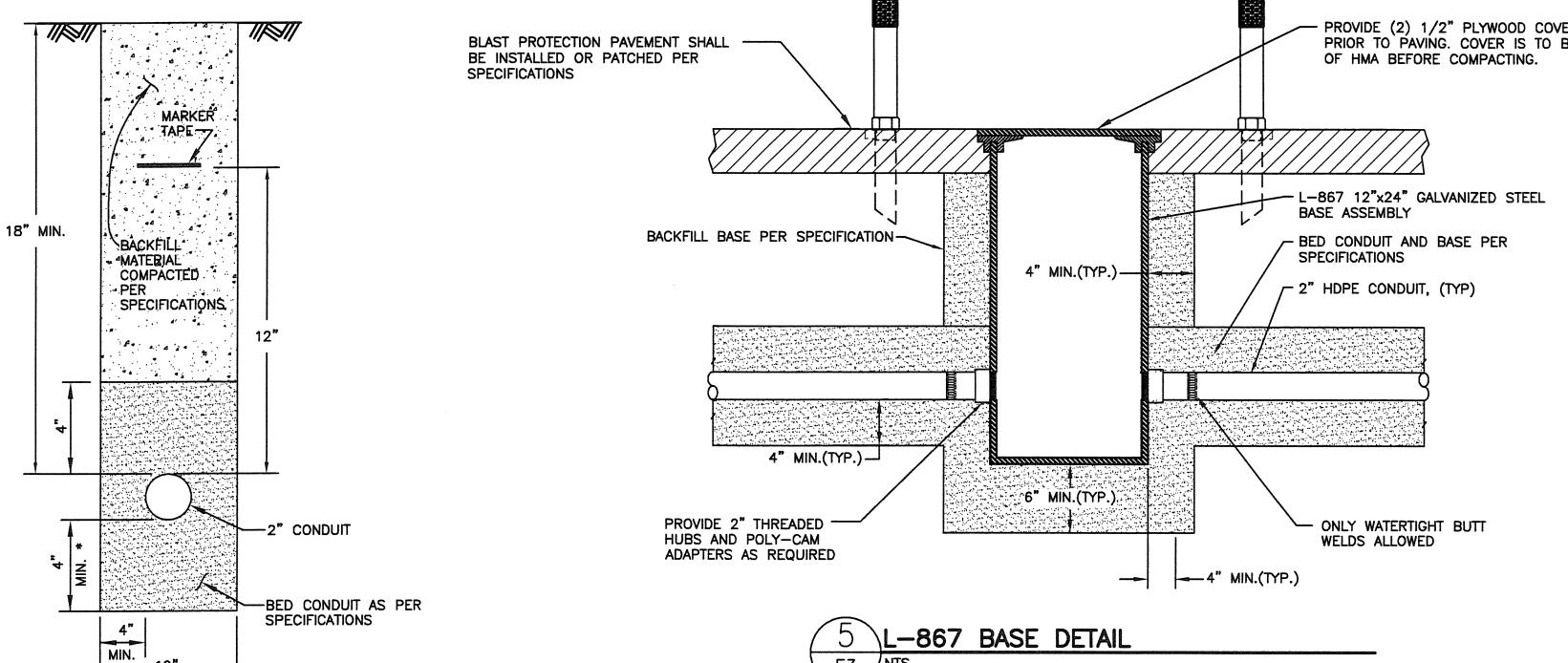
1 THRESHOLD LIGHTING DETAIL
E3 NTS



ORIENTATION OF L-823 CABLE
CONNECTION IN LIGHT BASE DETAIL



3 T/W ENTRANCE/EXIT LIGHT DETAIL



4 CONDUIT TRENCH DETAIL
F3 NTS



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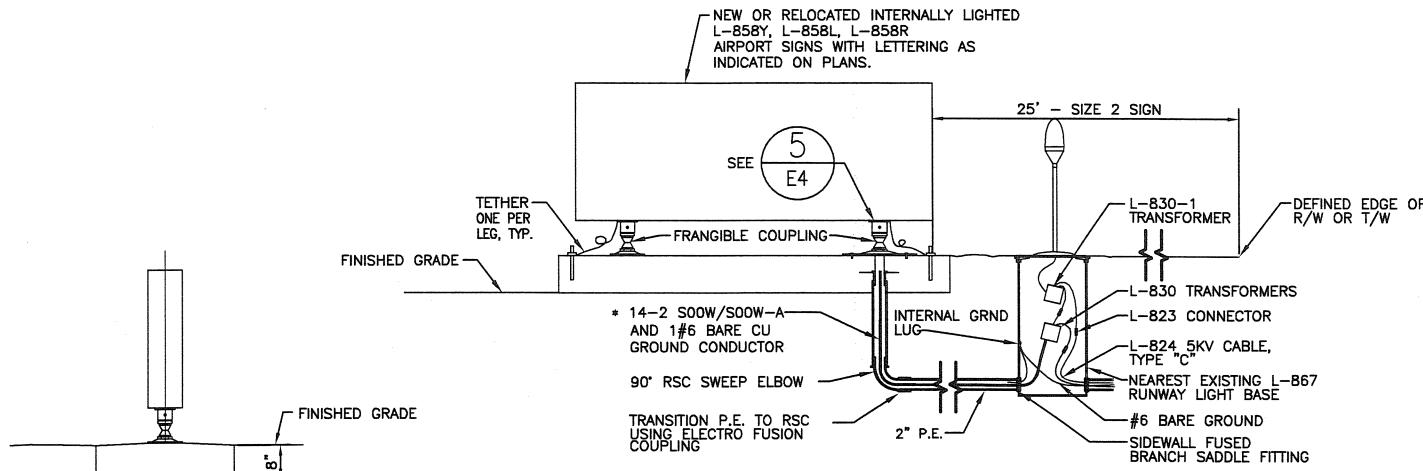
Inc.	BY	DATE
		REVISION

**STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
CENTRAL REGION**

**KODIAK AIRPORT
KODIAK, ALASKA**
**RUNWAY SAFETY AREA EXTENSION
PROJECT NO. 53587**
AIP No. 3-02-0158-017-2014
AIRFIELD LIGHTING DETAILS

DATE:
3/18/2014
SHEET:
E3 OF E19
AS-BUILT SHEET

Date Revised: 3/18/2014, 2:35 PM
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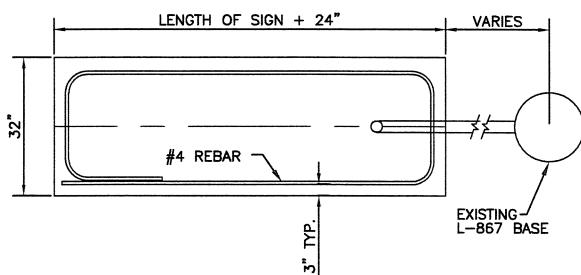
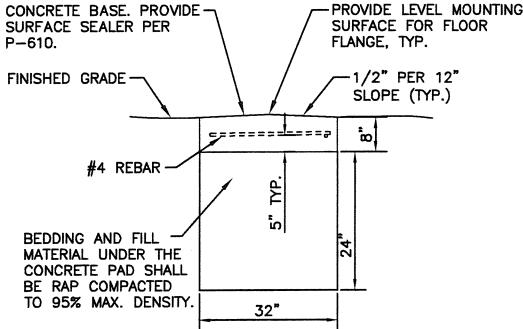
SIGN SCHEDULE								
SIGN No.	SIDE NO.	TYPE	PURPOSE	POWER STYLE	LEGEND COLOR	FACE COLOR	LEGEND	STATIONING
37	1	L-858Y	DIRECTION	2	BLACK	YELLOW	A →	R/W 18-36 STA. 8+53.66 (100'LT)
38	1 2	L-858L L-858R L-858Y	LOCATION MANDATORY DIRECTION	2	YELLOW WHITE BLACK	BLACK RED YELLOW	A 36 B →	R/W 18-36 STA. 8+18.60 (250'LT)
39	1 2	L-858R L-858L L-858Y	MANDATORY LOCATION DIRECTION	2	WHITE YELLOW BLACK	RED BLACK YELLOW	A 36 A \	R/W 18-36 STA. 6+81.98 (250'LT)
41	1 1 1	L-858R L-858L L-858Y	DESTINATION LOCATION DIRECTION	2	BLACK YELLOW BLACK	YELLOW BLACK YELLOW	→ 36 B A /	R/W 18-36 STA. 8+53.65 (270'LT)

* NUMBER OF MODULES TO BE DETERMINED BY MANUFACTURER.

1 SIDE VIEW
E4 NTS

2 FRONT VIEW
E4 NTS

L-858 SIGN DETAILS

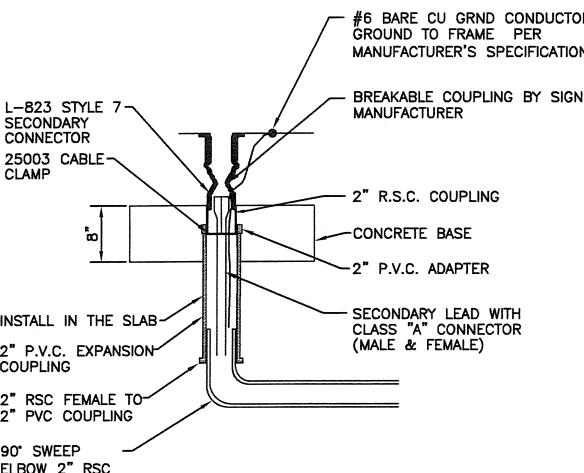


3 CONCRETE BASE SIDE VIEW
E4 NTS

4 CONCRETE BASE PLAN
E4 NTS

NOTES:

1. ALL SIGNS - SIZE 2, LED STYLE 2 OR 3, CLASS 2.
2. NEW SIGNS AND TRANSFORMERS SHALL BE COMPATIBLE WITH EXISTING 6.6 A CIRCUITS.
3. PROVIDE NEW TRANSFORMERS, SECONDARY WIRING, AND GROUNDING. TRANSFORMER WATTAGE SIZE PER MANUFACTURER'S SPECIFICATION.
4. ATTACH SIGNS TO CONCRETE BASE IN ACCORDANCE WITH MANUFACTURE'S INSTRUCTION.
5. THE CONTRACTOR SHALL CERTIFY THE CONCRETE BASE IS CONSTRUCTED TO MEET THE SPECIFICATION P610.
6. BEDDING, BACK FILL AND FINISH GRADE RESTORATION SHALL BE SUBSIDIARY TO THE CONTRACT AND NO SEPARATE PAYMENT WILL BE MADE.
7. ALL CABLES PASSING THROUGH BASE SHALL HAVE SUFFICIENT SLACK TO ALLOW CONNECTORS TO BE DRAWN 3' ABOVE FINISHED GRADE. ALL CABLES SHALL BE TAGGED.



5 ELECTRICAL CONNECTION DETAIL
E4 NTS



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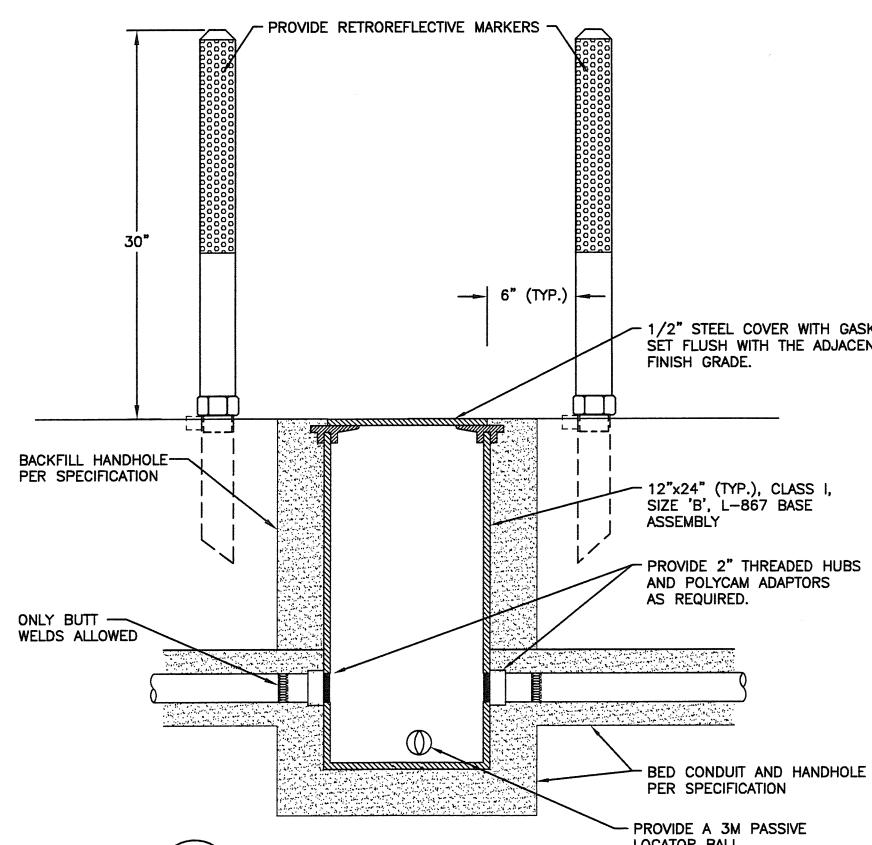
BY	DATE	REVISION

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AND PUBLIC FACILITIES
CENTRAL REGION

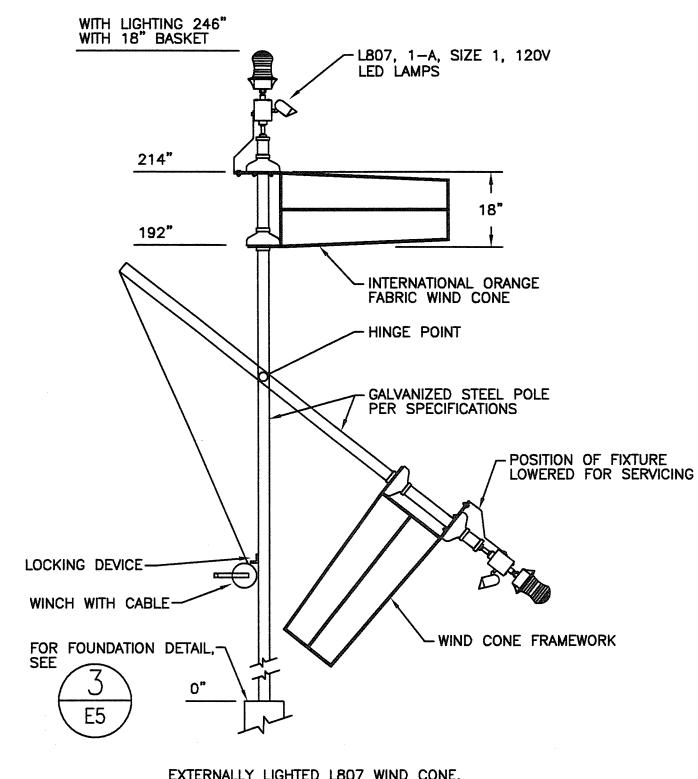
KODIAK AIRPORT
KODIAK, ALASKA
RUNWAY SAFETY AREA EXTENSION
PROJECT No. 53587
AIP No. 3-02-0158-017-2014
SIGN SCHEDULE AND DETAILS

DATE:
3/18/2014
SHEET:
E4 OF E19
AS-BUILT SHEET:
OF

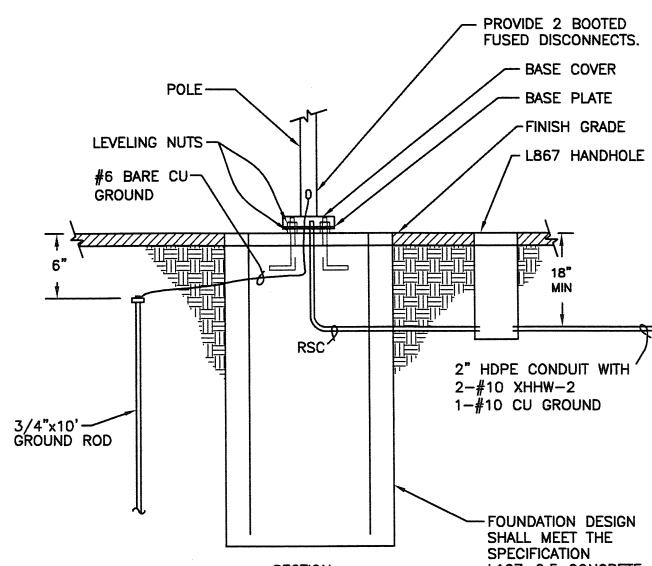
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 File Path and Name: E5



1 L867 HANDHOLE DETAIL
E5 NTS



2 LIGHTED WINDCONE DETAIL
E5 NTS



NOTE:

- VERIFY ANCHOR BOLT SIZE, BOLT CIRCLE, AND FOUNDATION SIZE WITH MANUFACTURER'S SHOP DRAWINGS.

3 L807 WIND CONE POLE BASE DETAIL
E5 NTS



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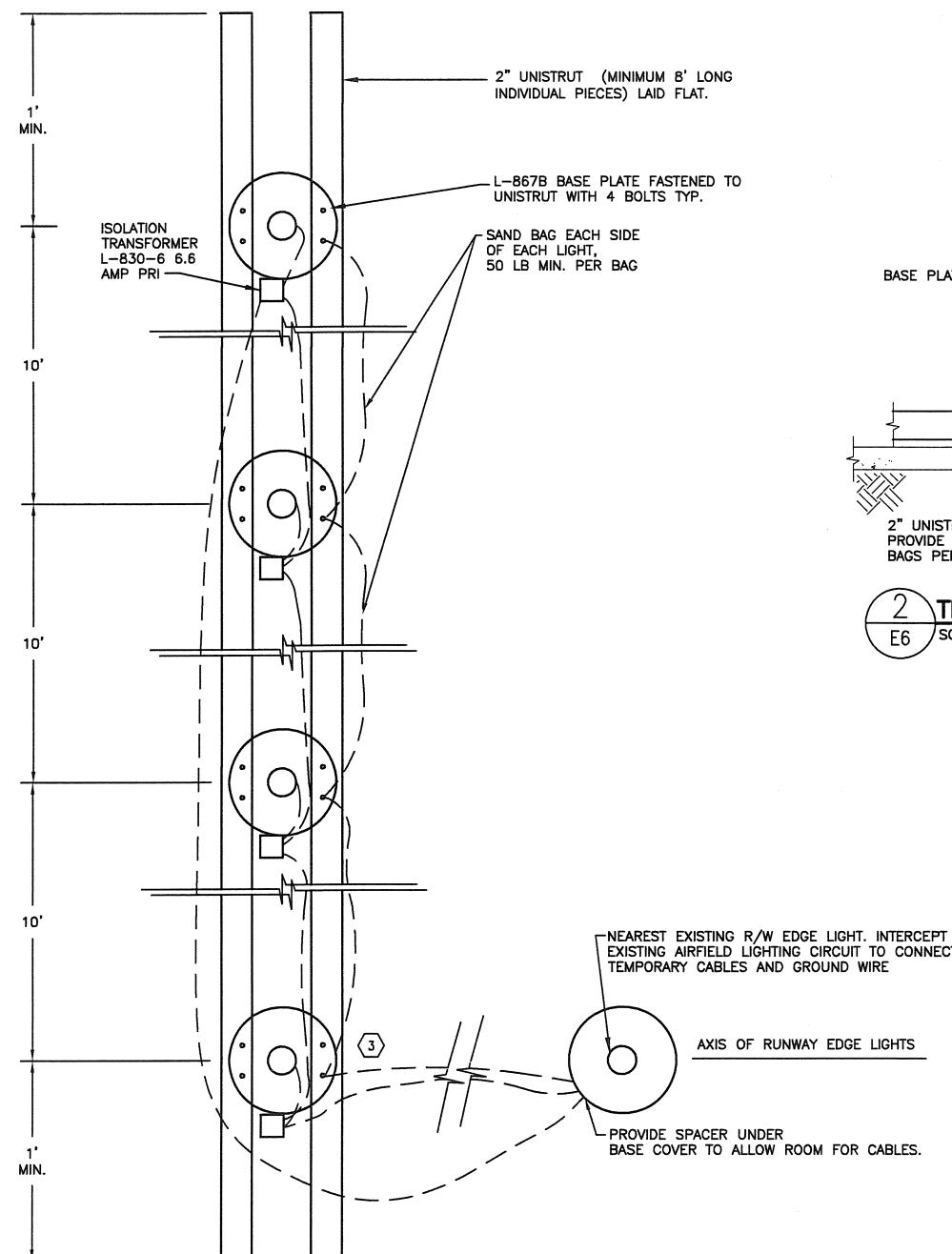
BY	DATE	REVISION

STATE OF ALASKA
**DEPARTMENT OF TRANSPORTATION
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 CENTRAL REGION

KODIAK AIRPORT
 KODIAK, ALASKA
 RUNWAY SAFETY AREA EXTENSION
 PROJECT No. 53587
 AIP No. 3-02-0158 017-2014
 WIND CONE DETAILS

DATE:
 3/18/2014
 SHEET:
 E5 OF E19
 AS-BUILT SHEET:
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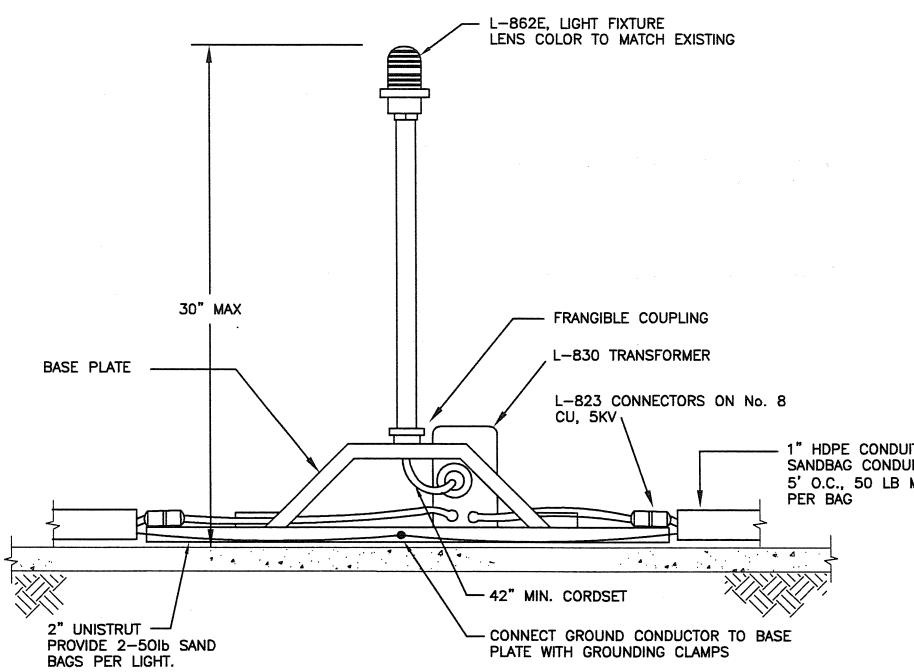
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Layout Name:	ES	Drawn By:	MK
File Path and Name:	E:\1\1300\KBA - Kodak Airport Runway 1R36 and RSA\E-Working\Drawings - RSA\13004.FF.dwg	Checked By:	BR



1 TEMPORARY THRESHOLD LIGHT BAR DETAIL



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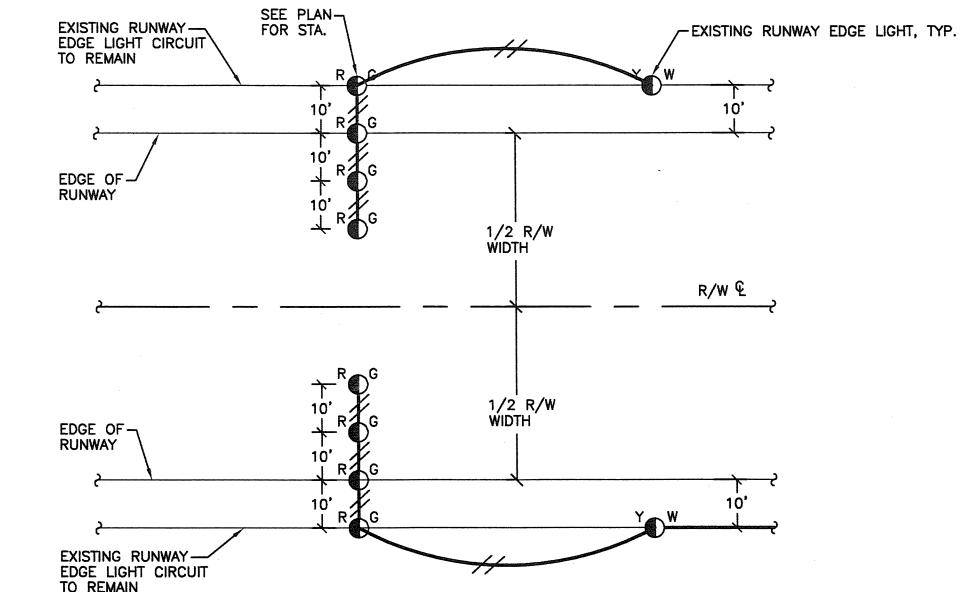
2 TEMPORARY THRESHOLD AND EDGE LIGHT DETAIL
E6 SCALE: NTS

TEMPORARY LIGHTING NOTES

1. PROVIDE TEMPORARY THRESHOLD LIGHT BARS AND EDGE LIGHTS IN ACCORDANCE WITH THE PROJECT SAFETY PLAN AND AS DIRECTED BY THE ENGINEER.
 2. CONSTRUCTION, INSTALLATION, MAINTENANCE AND DEMOLITION OF TEMPORARY EDGE LIGHTS, THRESHOLD LIGHTS AND JUMPERS IS SUBSIDIARY TO PAY ITEM L-100R.

③ CONNECT TEMPORARY THRESHOLD LIGHT BARS TO EXISTING EDGE LIGHTS.

 4. THE TEMPORARY LIGHT FIXTURES SHALL HAVE CORD SETS OF SUFFICIENT LENGTH TO ALLOW CONNECTION TO TRANSFORMER SECONDARY REMOTE FROM THE AREA UNDERNEATH THE L-867B LID FOR THE TEMPORARY THRESHOLD.
 5. TEMPORARY LIGHT FIXTURES SHALL BE THE SAME HEIGHT: 30" L-862E (200W).
 6. JUMPERS SHALL BE RUN IN 1" HDPE CONDUIT WITH A SEPARATE #6 BARE COPPER GROUND. SAND BAG CONDUIT 5' O.C., 50 LB MINIMUM PER SAND BAG.
 7. TEMPORARY THRESHOLD LIGHT BARS AND EDGE LIGHT ASSEMBLIES SHALL BE OFFERED TO THE STATE FOR SALVAGE AT COMPLETION OF THE PROJECT.
 8. TEMPORARY JUMPERS SHALL BE SALVAGED OR DISPOSED OF AT THE DIRECTION OF THE ENGINEER.



3 TEMPORARY THRESHOLD LIGHTING DETAIL - R/W 25
E6 SCALE: NTS

BY	DATE	REVISION

**STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
CENTRAL REGION**

**KODIAK AIRPORT
KODIAK, ALASKA**

RUNWAY SAFETY AREA EXTENSION
PROJECT No. 53587

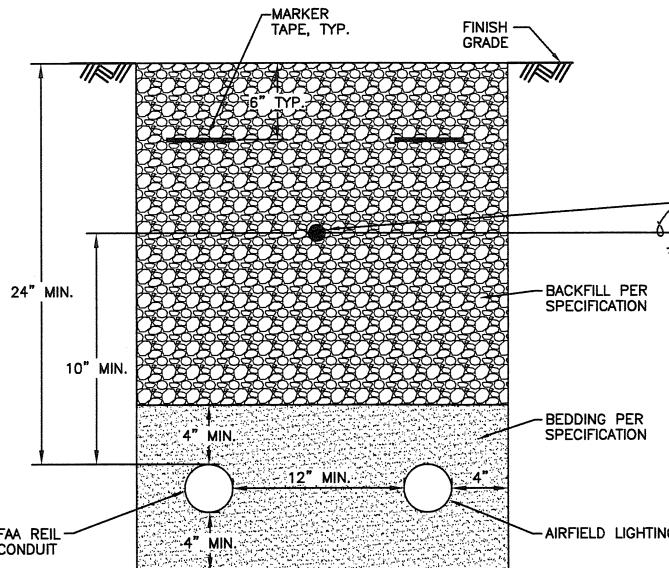
AIP No. 3-02-0158-017-2014

**TEMPORARY LIGHTING
DETAILS AND NOTES**

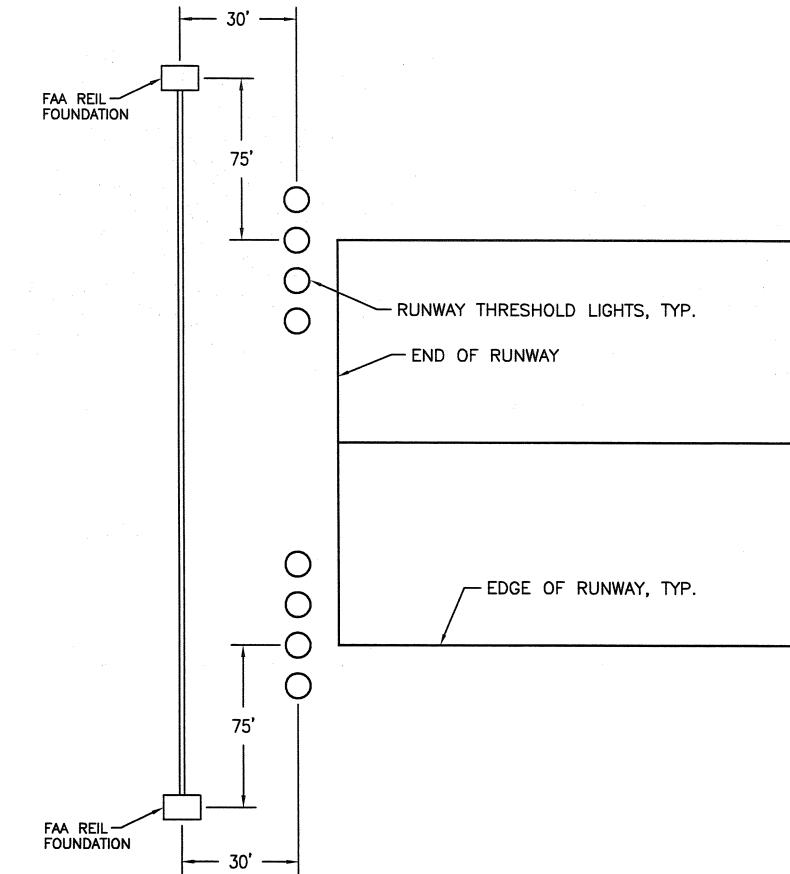
DATE:
3/18/2014
SHEET:
E6 OF E19
AS-BUILT SHEET:
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Designed By:	DH
Drawn By:	MK
Checked By:	ML

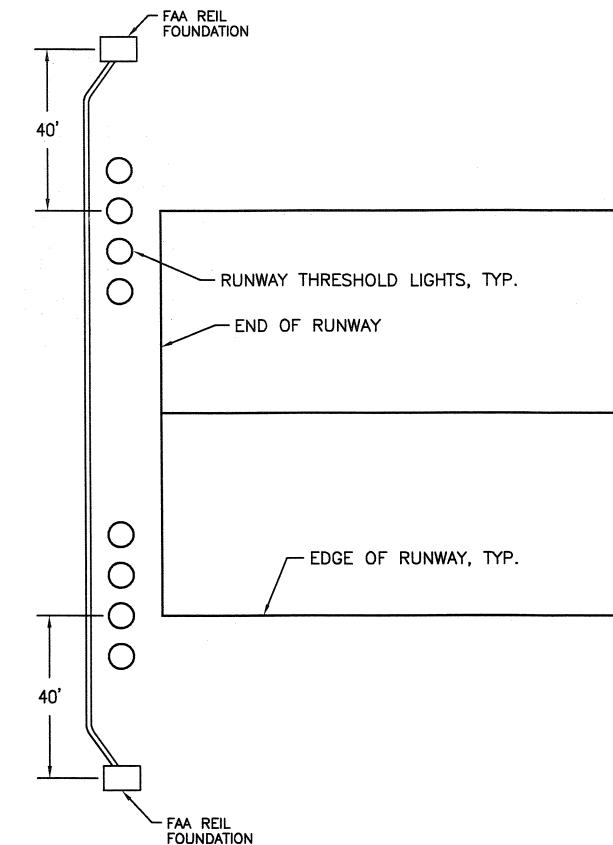
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1 FAA CONDUIT TRENCH DETAIL



2 R/W 36 REIL LAYOUT PLAN



3 R/W 25 REIL LAYOUT PLAN



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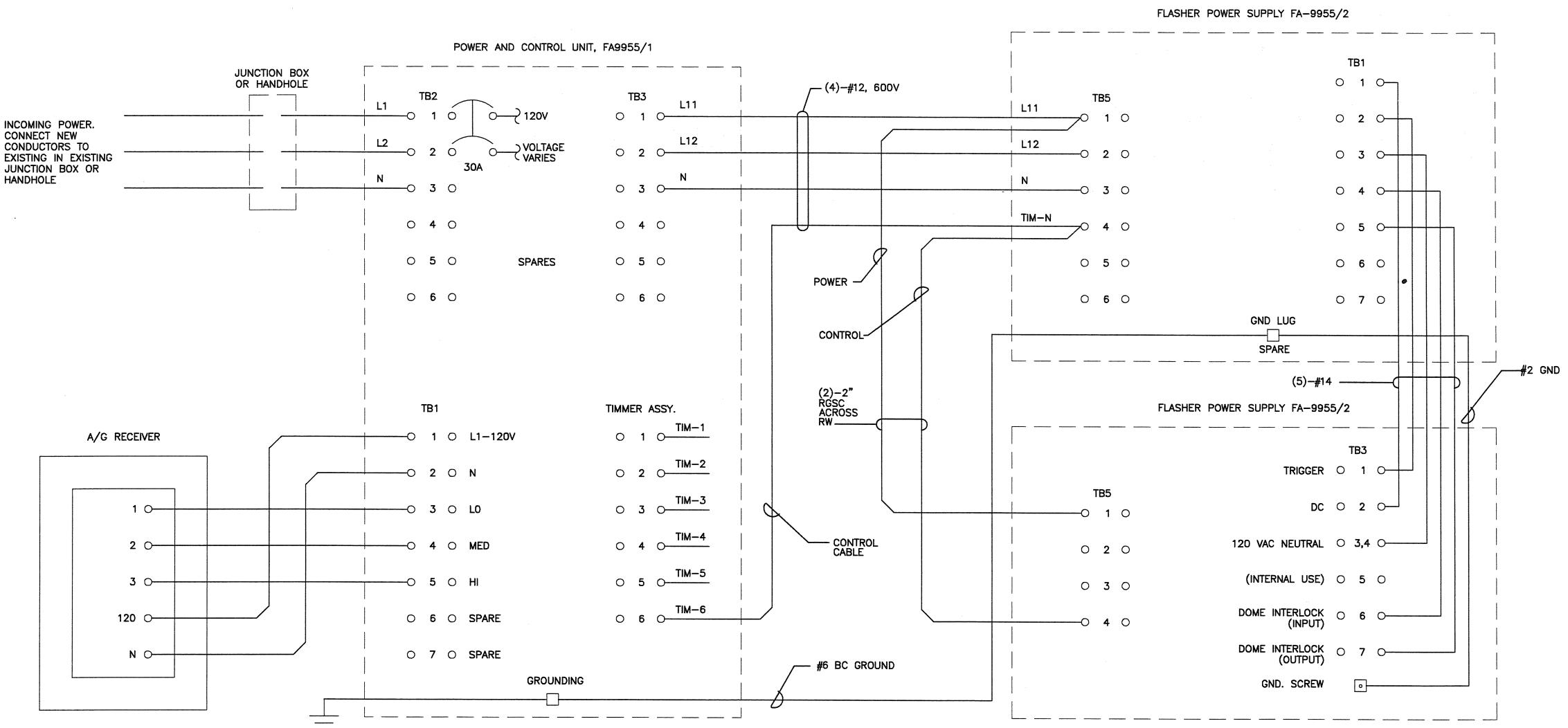
BY	DATE	REVISION

STATE OF ALASKA
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 AND PUBLIC FACILITIES
 CENTRAL REGION

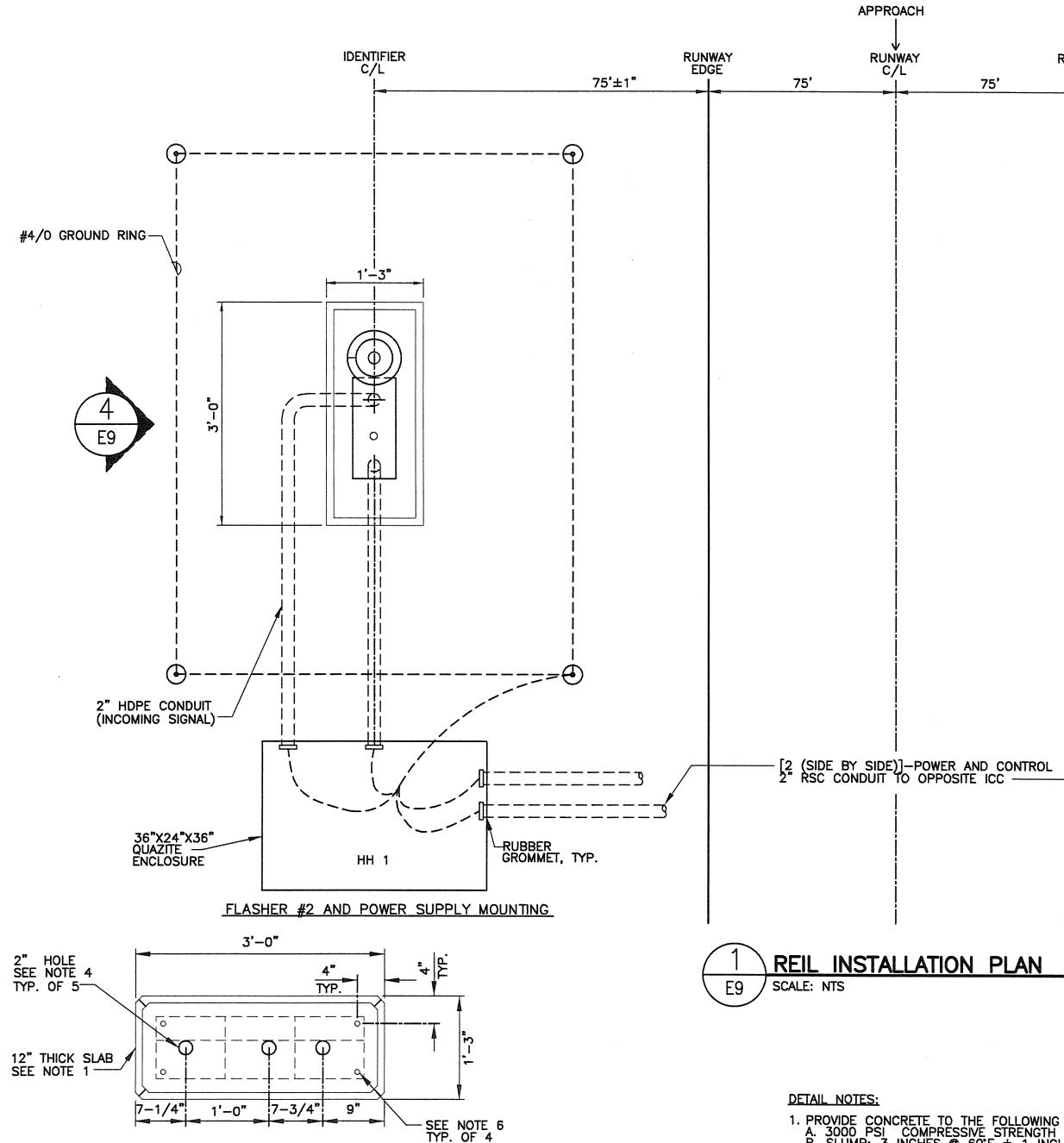
KODIAK AIRPORT
 KODIAK, ALASKA
 RUNWAY SAFETY AREA EXTENSION
 PROJECT No. 53587
 AIP No. 3-02-0158-017-2014
 REIL DETAILS

DATE:
 3/18/2014
 SHEET:
 E7 OF E19
 AS-BUILT SHEET:


Date Revised: 3/18/2014, 2:40 PM
 Drawing Name: ER
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Date Revised:	3/18/2014, 2:40 PM	Designed By:
Layout Name:	E9	Checked By:
File Path and Name:	Kodiak_Airport_Runway_18&36_and_RSA_E-Working_Drawings - fmsa13004_ES.dwg	



3' - 0" x 1' - 0" CONCRETE PAD REBAR DETAIL

SCALE: 1" = 1'-0"

SEE NOTE 6
TYP. OF 4

SEE NOTE 5
TYP. OF 4

SEE NOTE 4
TYP. OF 5

THICK SLAB 1
NOTE 5 13/16"

6' - 0"

10 3/4" 1' - 1 1/8" 1' - 0 5/8" 1' - 4" 1' - 7 1/2"

8" TYP.

1' - 6" 1' - 0" 10-5/8" 1' - 4 7/16" 1' - 6 7/8"

1' - 0" 1' - 4 7/16" 1' - 6 7/8"

6' - 0" x 3' - 0" CONCRETE PAD REBAR DETAIL

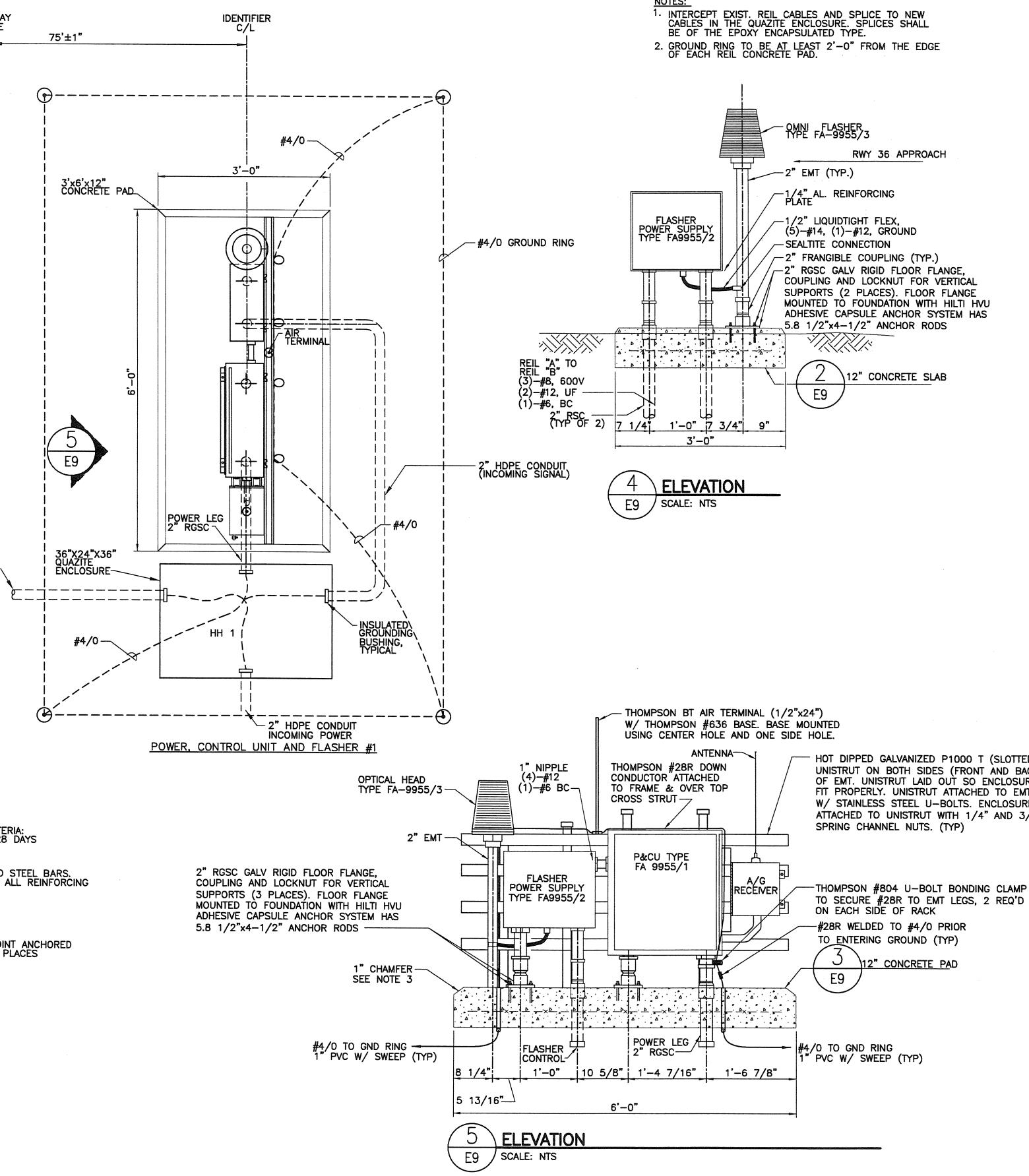
SCALE: 1" = 1'-0"

E9

**THIS DRAWING IS FOR
REFERENCE ONLY**

DETAIL NOTES:

1. PROVIDE CONCRETE TO THE FOLLOWING CRITERIA:
A. 3000 PSI COMPRESSIVE STRENGTH AT 28 DAYS
B. SLOP: 3 INCHES @ 60° F ± 1 INCH
C. AGGREGATE SIZE: 3/4 INCHES MAXIMUM
2. REINFORCING STEEL SHALL BE #4, DEFORMED STEEL BARS.
PROVIDE 1 1/2" (MIN.) CLEAR COVER OVER ALL REINFORCEMENT STEEL.
3. CHAMFER ALL EDGES 1".
4. 2" DIAMETER HOLE.
5. 1 3/4" DIAMETER HOLE.
6. 3/4" THREADED INSERT 4" LONG LIFTING POINT ANCHORED
IN CONCRETE TO ALLOW LIFTING OF PAD. 4 PLACES

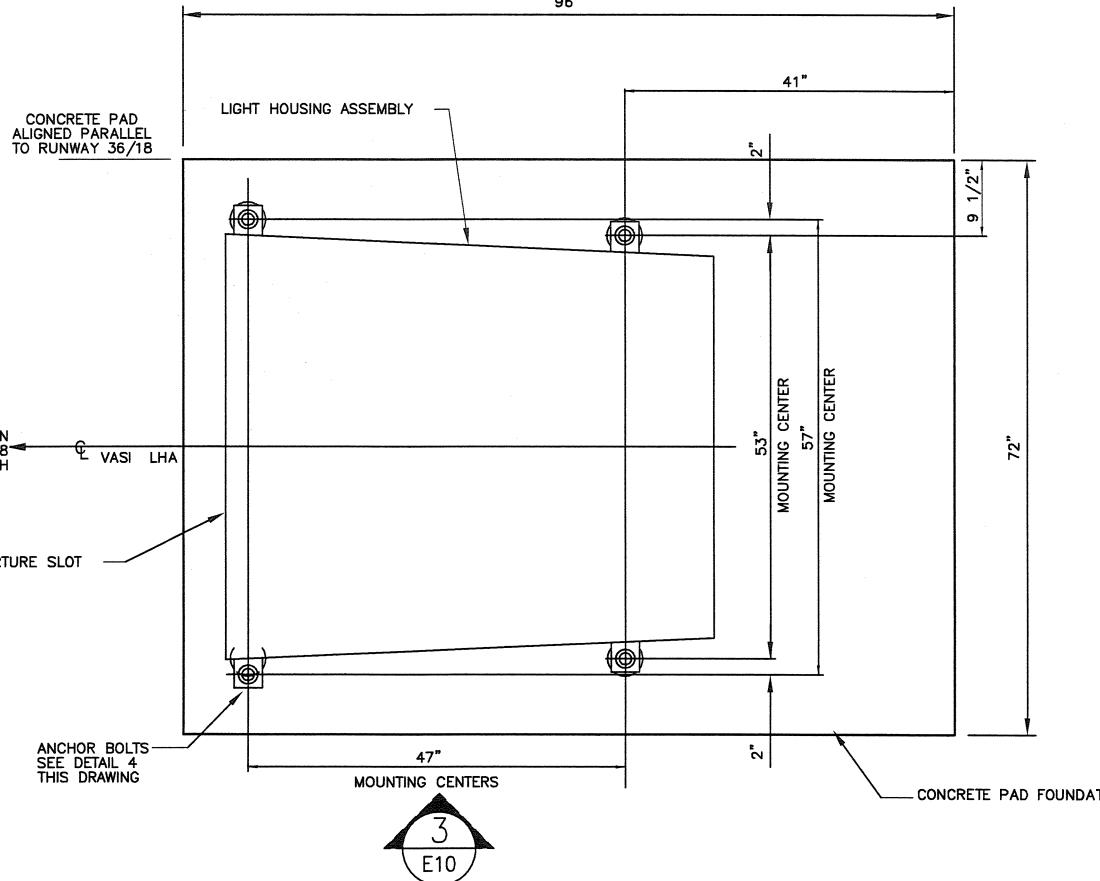


NOTES:

1. INTERCEPT EXIST. REIL CABLES AND SPLICER TO NEW CABLES IN THE QUAZITE ENCLOSURE. SPLICES SHALL BE OF THE EPOXY ENCAPSULATED TYPE.
2. GROUND RING TO BE AT LEAST 2'-0" FROM THE EDGE OF EACH REIL CONCRETE PAD.

		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES CENTRAL REGION	KODIAK AIRPORT KODIAK, ALASKA RUNWAY SAFETY AREA EXTENSION PROJECT No. 53587 AIP No. 3-02-0158-017-2014 FAA REFERENCE DRAWING REFL WIRING AND DETAILS	DATE: 3/18/2014 SHEET: E9 OF E19 AS-BUILT SHEET: 
BY	DATE	REVISION		

Date Revised: 3/18/2014, 2:40 PM
Last Name: Z
File Path and Name: Z:\1300\KRA - Kodiak Airport\Runway 1936 and 1835 and VASI\1300_E10.dwg



NOTE:
1. SEE DRAWING E14 FOR VASI PAD FOUNDATION

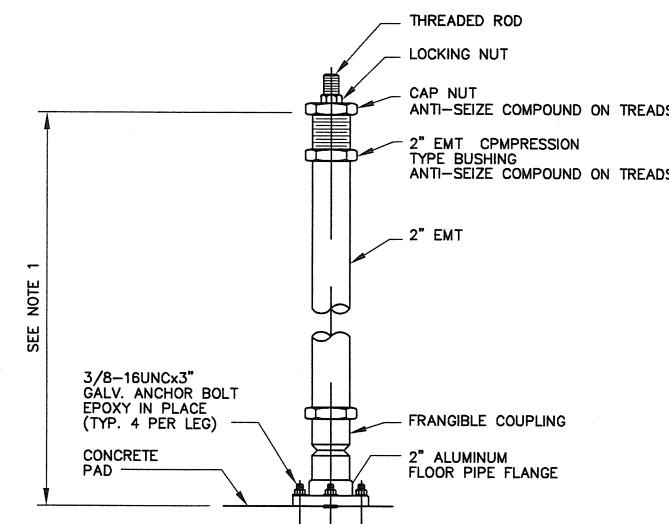
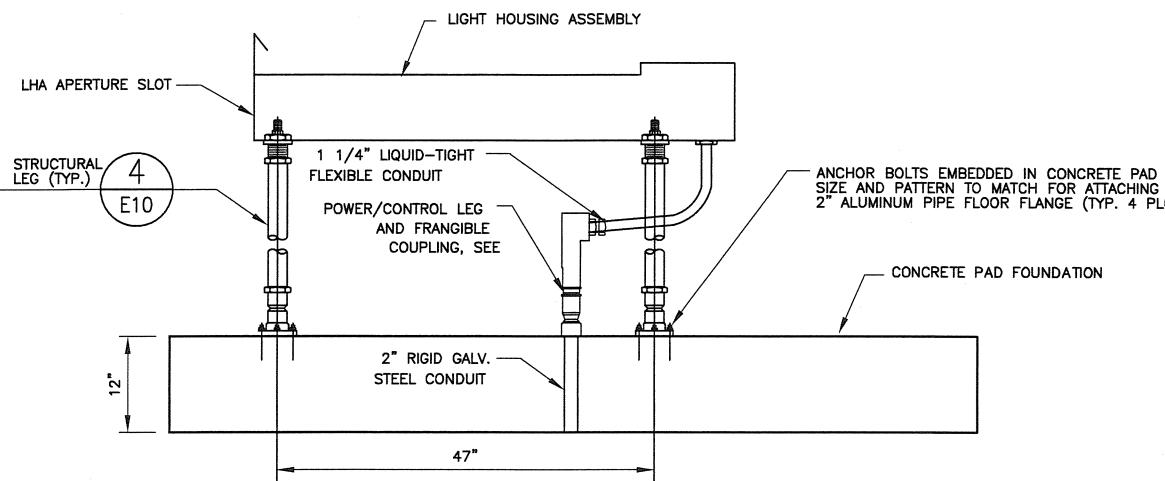
RUNWAY 36/18

1
E10 **RUNWAY 36/18 VASI PLAN VIEW**

SCALE: 1" = 1'-0"

DETAIL NOTES:

1. CONCRETE PADS ALIGNED PARALLEL TO RUNWAY.



4
E10 **TYPICAL STRUCTURAL LEG**

SCALE: NTS

DETAIL NOTES:

1. LEG HEIGHT DEPENDS ON LHA ELEVATION

**3
E10** **VASI LIGHT HOUSING ASSEMBLY ELEVATION**

SCALE: 1" = 1'-0"

**THIS DRAWING IS FOR
REFERENCE ONLY**

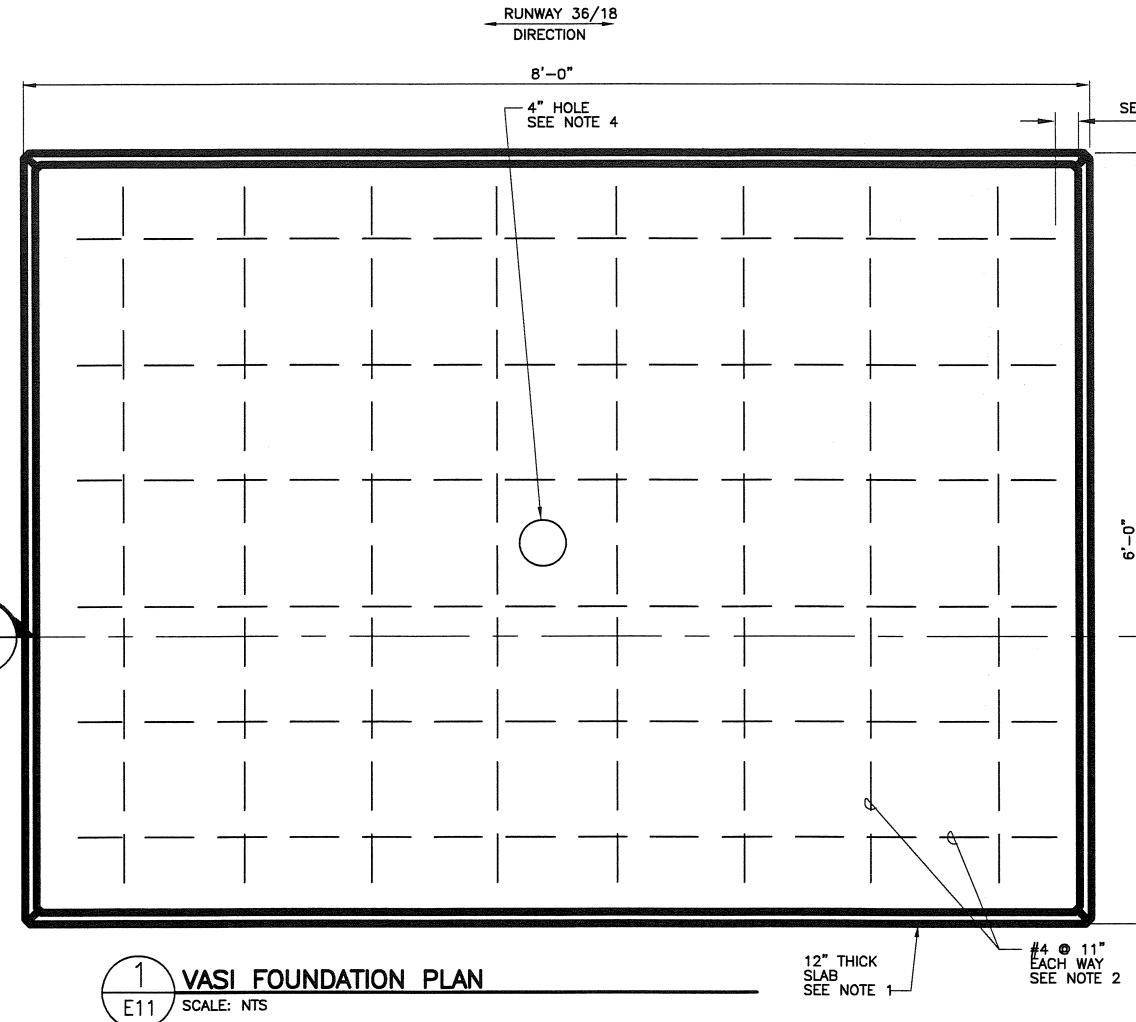
BY	DATE	REVISION

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
CENTRAL REGION

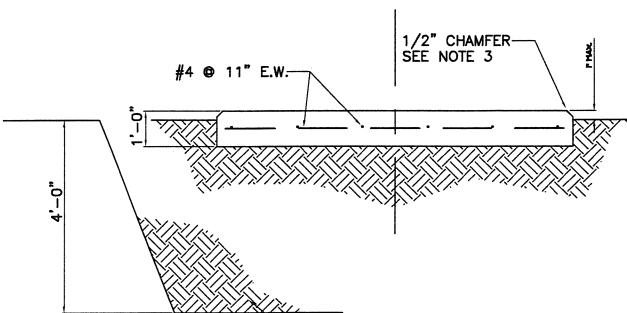
KODIAK AIRPORT
KODIAK, ALASKA
RUNWAY SAFETY AREA EXTENSION
PROJECT NO. 53587
AIP No. 3-02-0158-017-2014
FAA REFERENCE DRAWING
VASI PLAN VIEW, ELEVATION, & DETAILS

DATE: 3/18/2014
SHEET: E10 OF E19
AS-BUILT SHEET

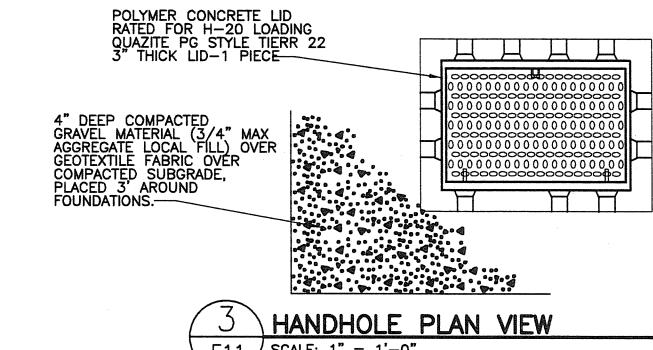
Date Revised: 1/18/2014, 2:39 PM
 Project Name: E11
 File Path and Name: Z:\1300AKRA - Kodiak Airport Runway 1835 and NFS\1300_E11.dwg



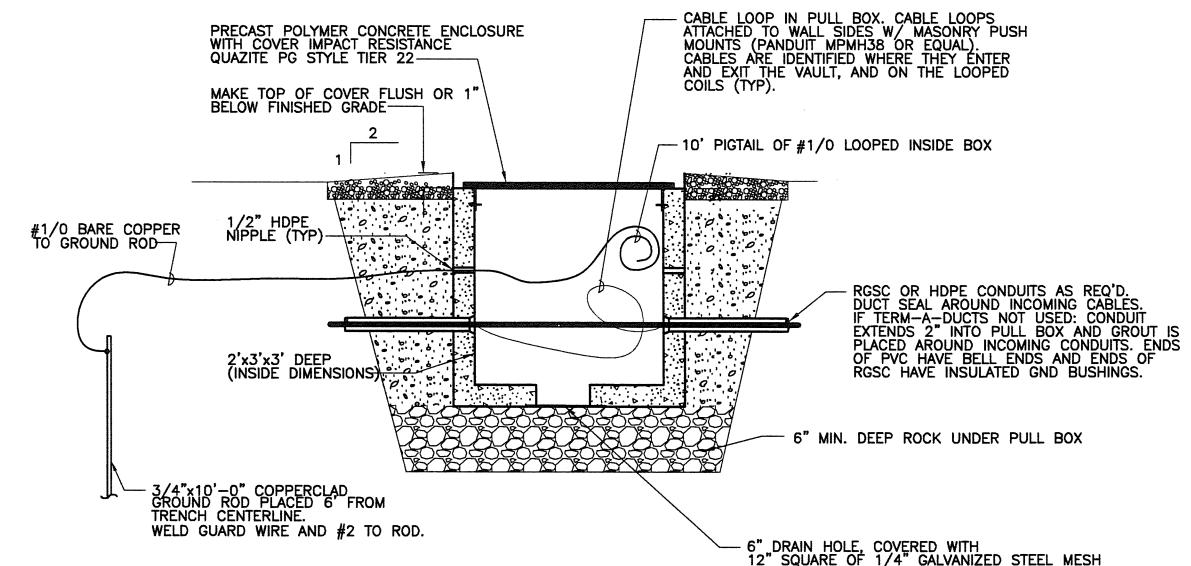
1 VASI FOUNDATION PLAN
E11 SCALE: NTS



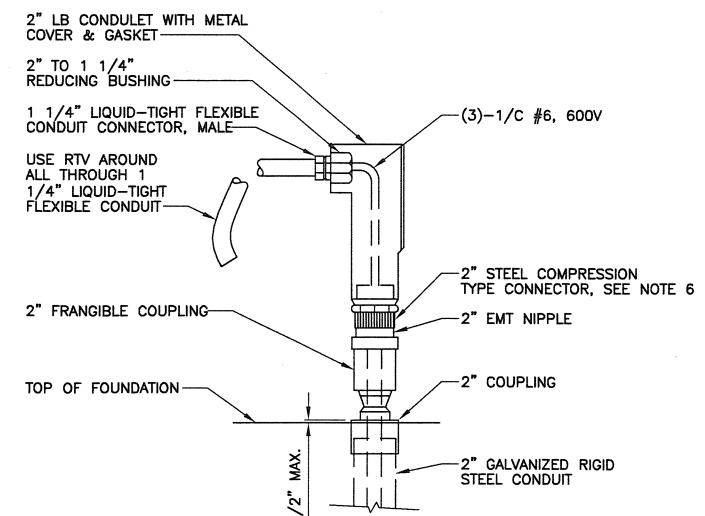
2 VASI FOUNDATION SECTION
E11 SCALE: NTS



- NOTES :**
1. CONCRETE IS TO THE FOLLOWING CRITERIA:
 A. 3000 PSI COMPRESSIVE STRENGTH AT 28 DAYS
 B. SLOMPL: 3 INCHES @ 60 °F ± 1 INCH
 C. AGGREGATE SIZE: 3/4 INCHES MAXIMUM
 2. REINFORCING STEEL IS ASTM A615, GRADE 60, DEFORMED STEEL BARS. PROVIDE 2" (MIN.) CLEAR COVER OVER OVER ALL REINFORCING STEEL.
 3. CHAMFER ALL EDGES 1/2".
 4. 4" DIAMETER HOLE.
 5. 1 1/2" DIAMETER HOLE.
 6. ANTI-SEIZE COMPOUND, NSN# 8030-00-251-3980 MANUFACTURED BY JET-LUBE, INC., HOUSTON, TX OR EQUAL, USED ON ALL FITTINGS.
 7. ONLY NFS MATERIAL COMPACTED TO 95% IS BELOW ALL FOUNDATIONS.
 8. 3" MINIMUM SPACE BETWEEN REINFORCING STEEL AND SIDE OF FOUNDATION.
 9. CONDUIT SHALL BE INSTALLED WITH CROWN TO DRAIN TO LIGHT BASES.



4 HANDHOLE SECTION
E11 SCALE: NTS



5 POWER AND CONTROL WIRE LEG
E11 SCALE: NTS

**THIS DRAWING IS FOR
REFERENCE ONLY**

BY	DATE	REVISION

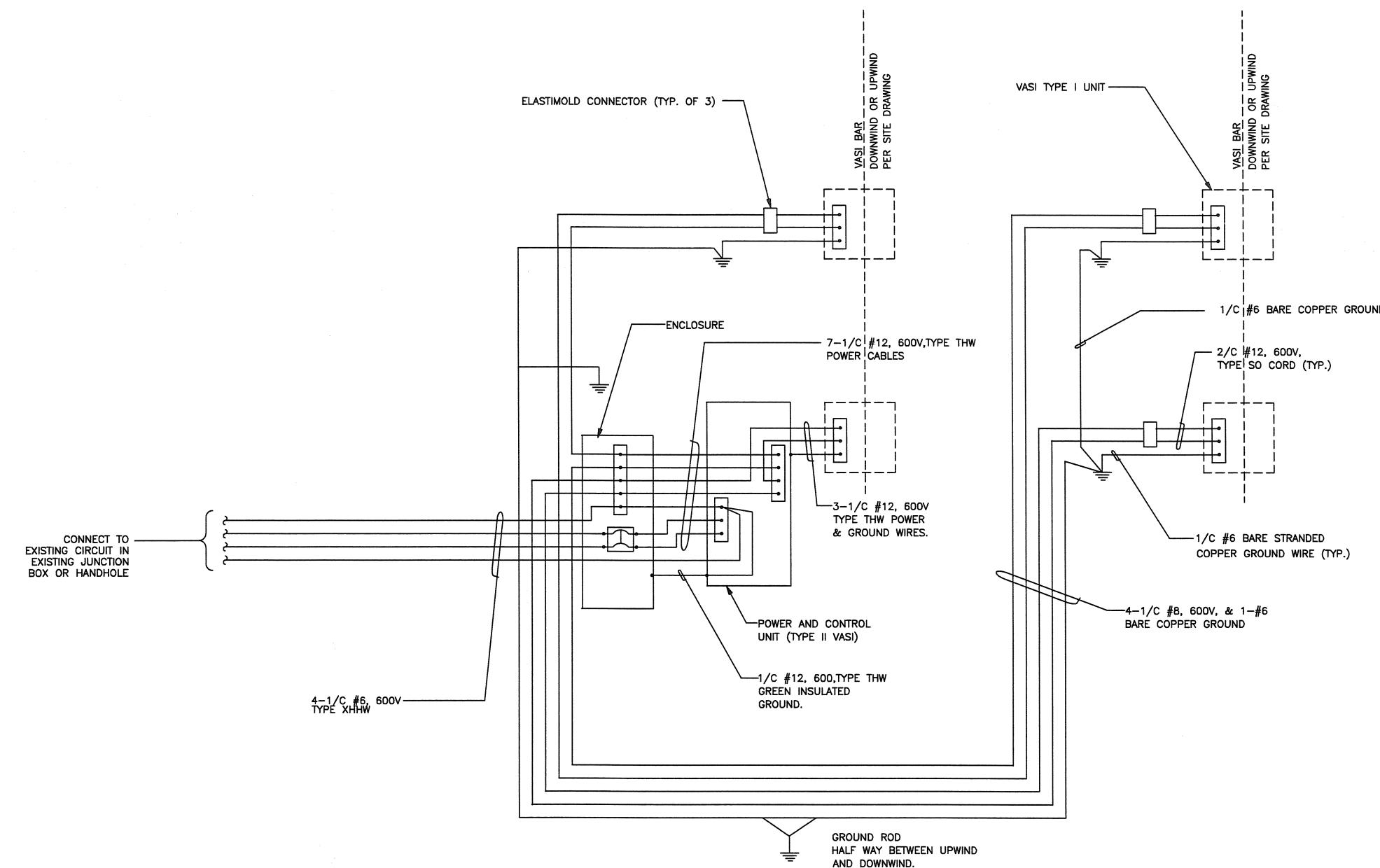
**STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
CENTRAL REGION**

**KODIAK AIRPORT
KODIAK, ALASKA**
RUNWAY SAFETY AREA EXTENSION
PROJECT No. 53587
AIP No. 3-02-0158-017-2014
FAA REFERENCE DRAWING
VASI FOUNDATION PLAN, SECTION, & DETAIL

DATE: 3/18/2014
 SHEET: E11 OF E19
 AS-BUILT SHEET:

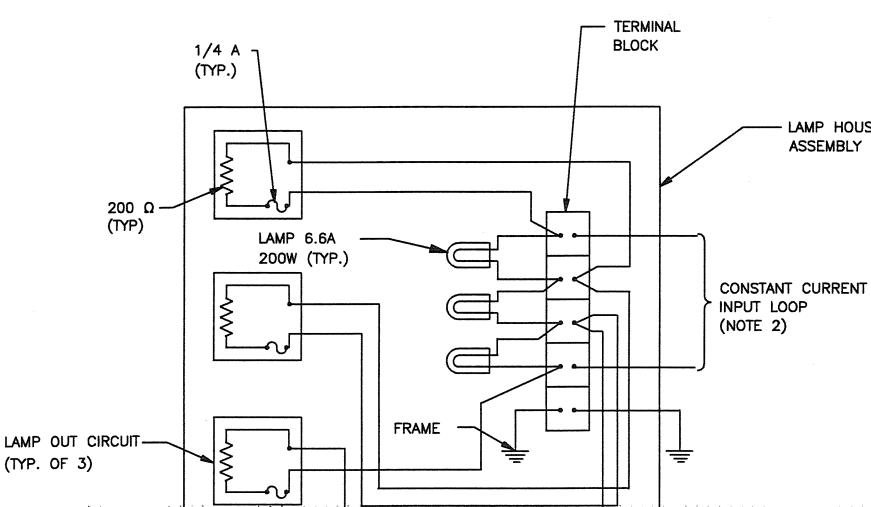
Date Revised: 3/8/2014, 2:39 PM
 Layout Name: E12
 File Path and Name: Z:\13004KRA - Kodiak Airport Runway 1336 and 3004\Working Drawings - RSA\3004_E12.dwg

Designed By: _____
 Drawn By: _____
 Checked By: _____



1 VASI FIELD WIRING DIAGRAM
 E12 SCALE: NTS

- NOTES:**
1. REFER TO VASI MANUFACTURER'S INSTRUCTION BOOKS FOR PROPER CABLE TERMINATIONS WITHIN THE POWER AND CONTROL UNIT AND THE LAMP HOUSING ASSEMBLIES.
 2. LAMP HOUSING ASSEMBLIES ARE WIRED INTERNALLY BY THE MANUFACTURER.



2 LAMP HOUSING ASSEMBLY WIRING DIAGRAM
 E12 SCALE: NTS

THIS DRAWING IS FOR
 REFERENCE ONLY

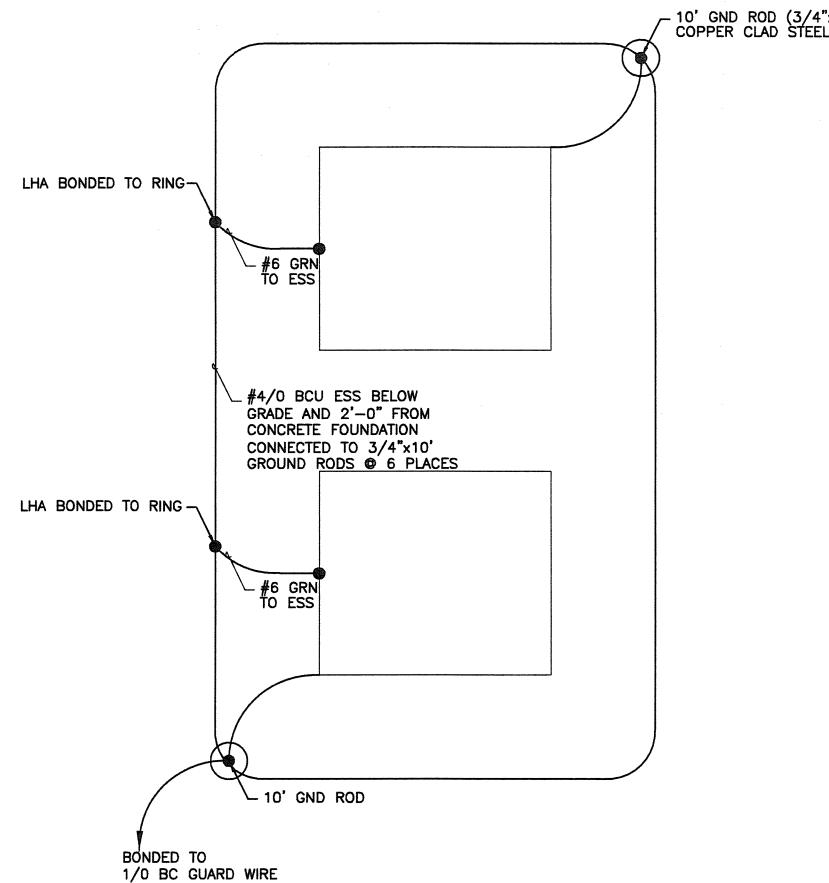
BY	DATE	REVISION

STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 AND PUBLIC FACILITIES
 CENTRAL REGION

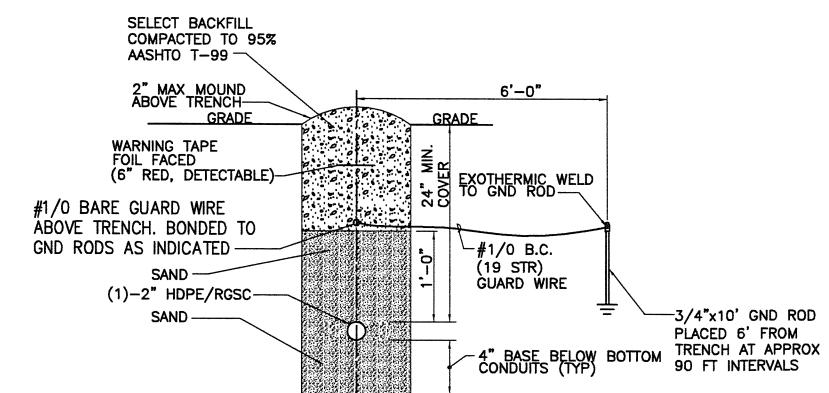
KODIAK AIRPORT
 KODIAK, ALASKA
 RUNWAY SAFETY AREA EXTENSION
 PROJECT No. 53587
 AIP No. 3-02-0158-017-2014
 FAA REFERENCE DRAWING
 ELECTRICAL SCHEMATIC DIAGRAM

DATE: 3/18/2014
 SHEET: E12 OF E19
 AS-BUILT SHEET:

Date Requested: 3/18/2014, 2:40 PM
 Layout Name: E13
 File Path and Name: Z:\3004kRA - Kodiak Airport Runway 1835 and RSNE-Working Drawings - RSA\13004_E13.dwg



1 VASI GROUNDING PLAN
E13 SCALE: NTS



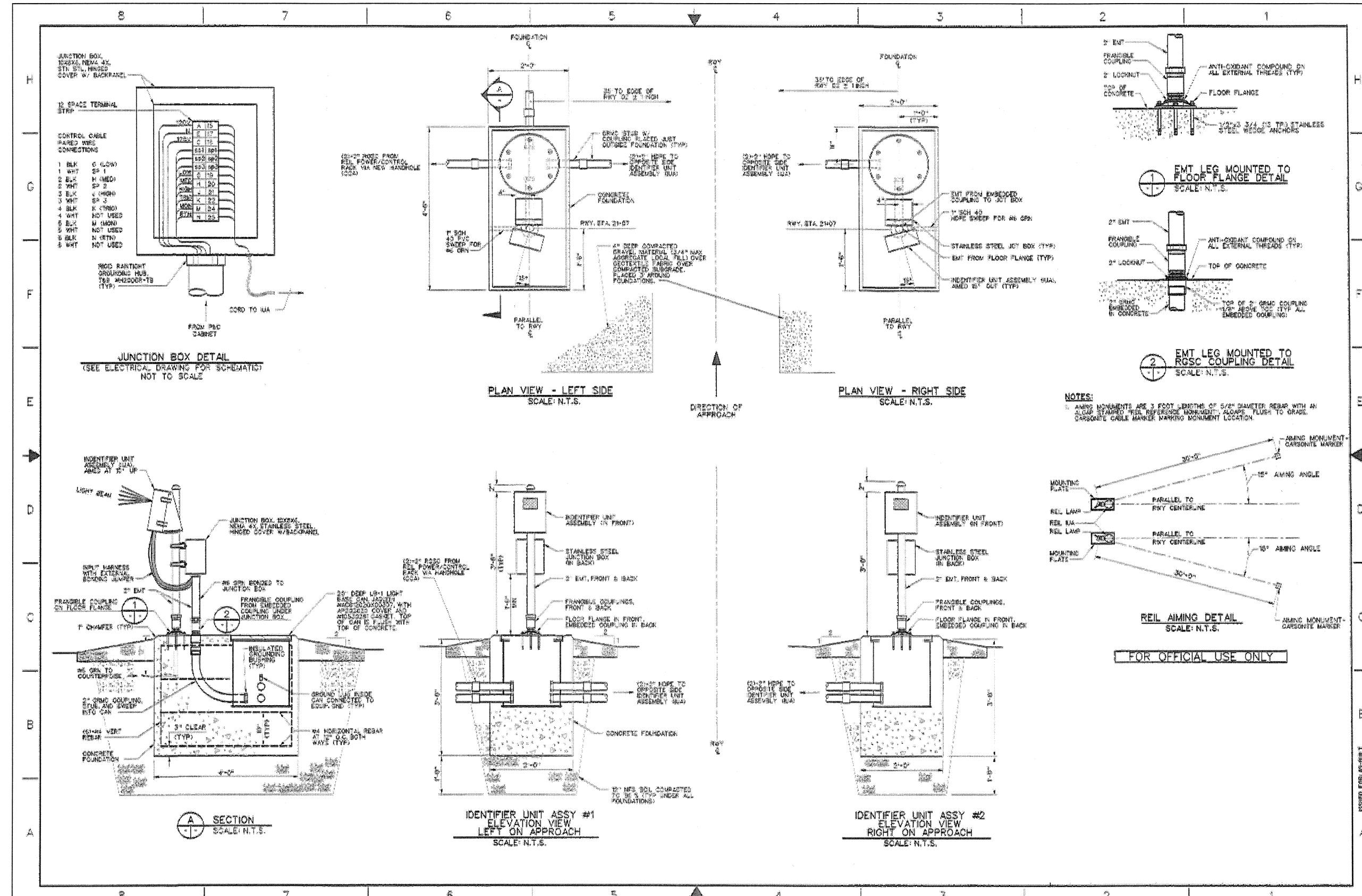
2 TRENCH DETAIL
E13 SCALE: NTS

THIS DRAWING IS FOR
REFERENCE ONLY

			STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES CENTRAL REGION	KODIAK AIRPORT KODIAK, ALASKA RUNWAY SAFETY AREA EXTENSION PROJECT No. 53587 AIP No. 3-02-0158-017-2014 FAA REFERENCE DRAWING GROUNDING PLAN & TRENCH DETAIL
BY	DATE	REVISION		

DATE:
3/18/2014
SHEET:
E13 OF E19
AS-BUILT SHEET:

Date Released: 3/18/2014, 2:44 PM
 Drawing Name: E14
 File Path and Name: Z:\300KRA - Kodiak Airport Runway 1936 and RSW\Working Drawings - RSA\13004_E14.dwg



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BY	DATE	REVISION

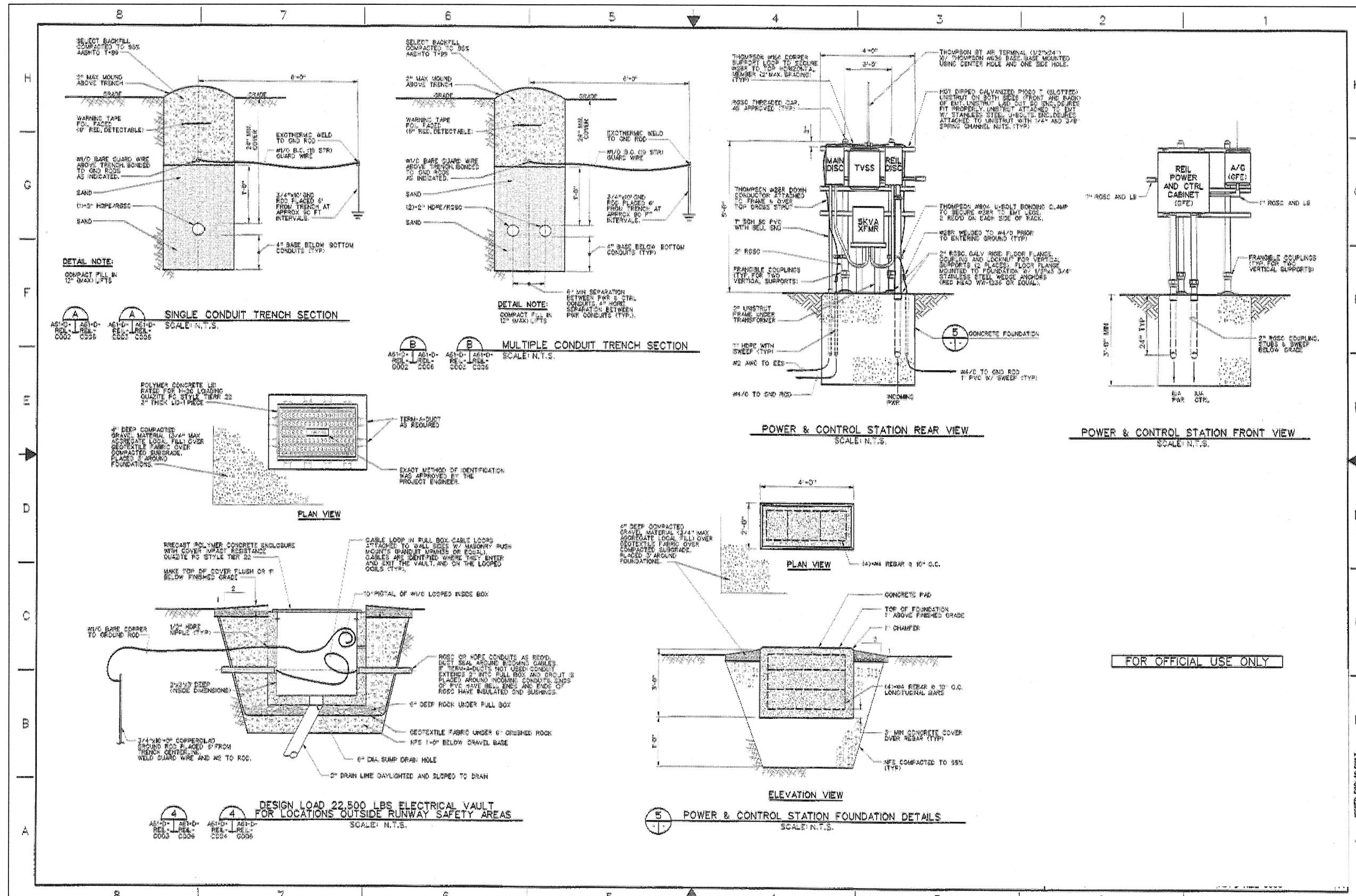
**STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 AND PUBLIC FACILITIES
 CENTRAL REGION**

**KODIAK AIRPORT
 KODIAK, ALASKA
 RUNWAY SAFETY AREA EXTENSION
 PROJECT No. 53587
 AIP No. 3-02-0158-017-2014
 FAA REFERENCE DRAWING
 REIL DETAILS**

DATE:
 3/18/2014
 SHEET:
 E14 OF E19
 AS-BUILT SHEET:
 AF

CAUTION: DRAWING SCALE IS REDUCED

Date Received: 3/18/2014, 2:44 PM
 Layout Name: E15
 File Path and Name: Z:\1300\KRA - Kodiak Airport Runway 1935 and 19A\Working Drawings - RSA\1300_E15.dwg



BY	DATE	REVISION

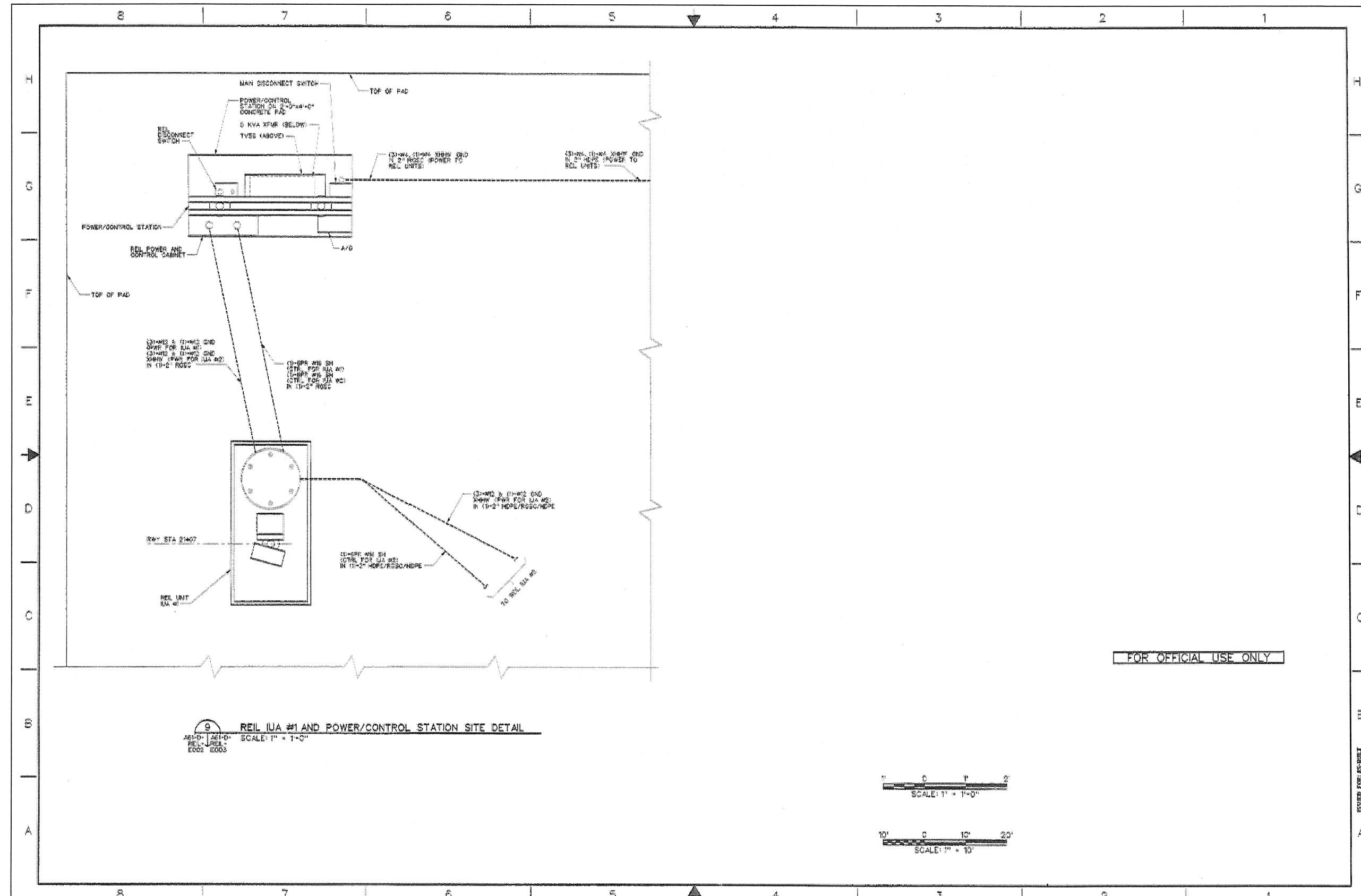
STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 AND PUBLIC FACILITIES
 CENTRAL REGION

KODIAK AIRPORT
 KODIAK, ALASKA
 RUNWAY SAFETY AREA EXTENSION
 PROJECT NO. 53587
 AIP No. 3-02-015B-017-2014
 FAA REFERENCE DRAWING
 REIL DETAILS
 AS-BUILT SHEET

DATE:
 3/18/2014
 SHEET:
 E15 OF E19
 AS-BUILT SHEET

Date Received: 3/18/2014, 2:43 PM
 Project Name: E16
 File Path and Name: Z:\1300\KRA - Kodiak Airport\Runway 1336 and 1536 and RSW\Working Drawings - RSA\13004_E16.dwg

Designed By: _____
 Drawn By: _____
 Checked By: _____



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REFERENCE ONLY**

BY	DATE	REVISION

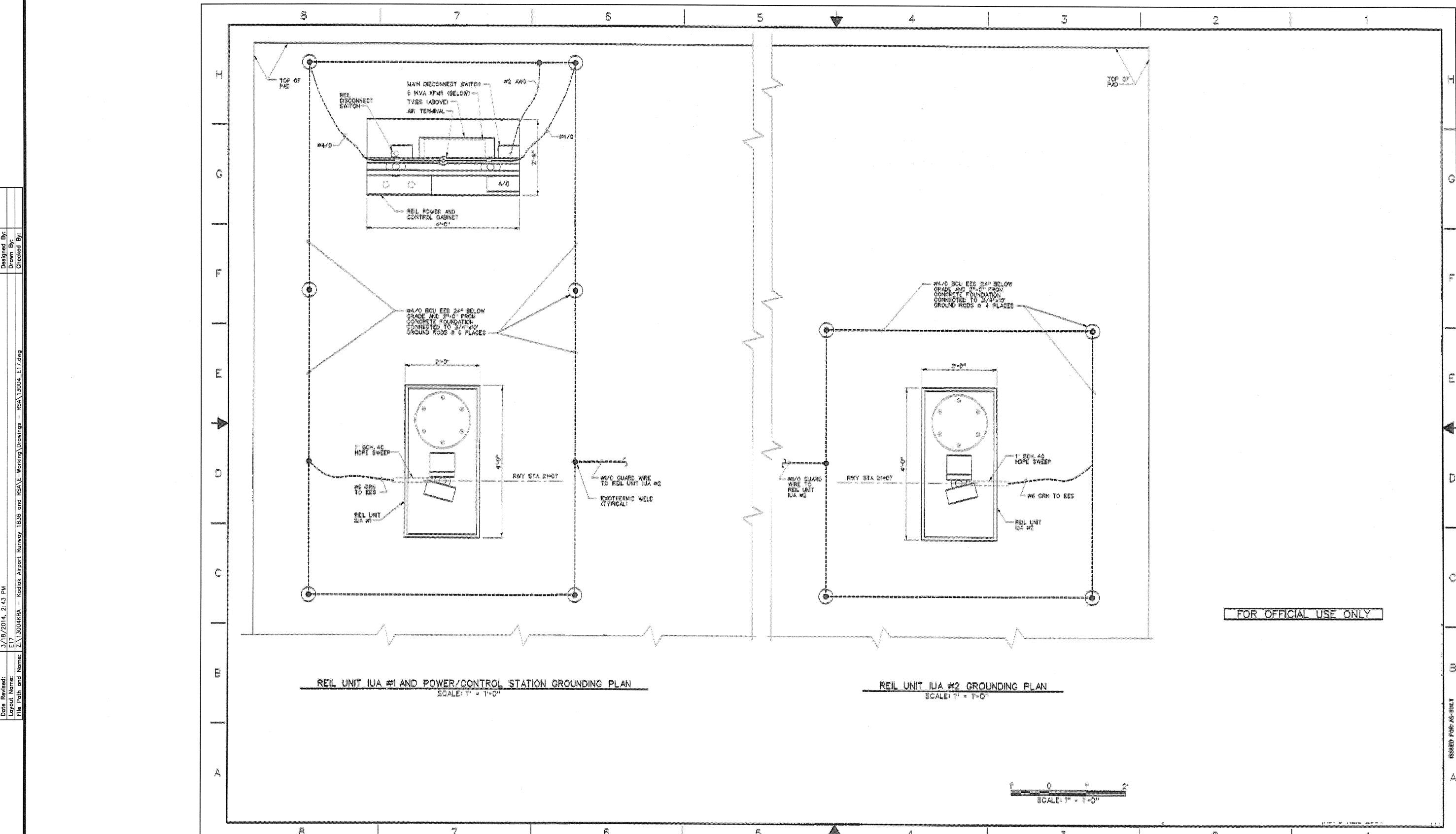
STATE OF ALASKA
**DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES**
 CENTRAL REGION

**KODIAK AIRPORT
KODIAK, ALASKA**
 RUNWAY SAFETY AREA EXTENSION
 PROJECT No. 53587
 AIP No. 3-02-0158-017-2014
 FAA REFERENCE DRAWING
 REIL DETAILS

DATE:
 3/18/2014
 SHEET:
E16 OF E19
 AS-BUILT SHEET:
 CP

CAUTION: DRAWING SCALE IS REDUCED

Date Revised: 3/18/2014, 2:43 PM
 Layout Name: E17
 File Path and Name: Z:\1300\KRA - Kodiak Airport\Runway 1336 and 1536 and RSW\1300 Drawings - RSA\E17.dwg



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REFERENCE ONLY**

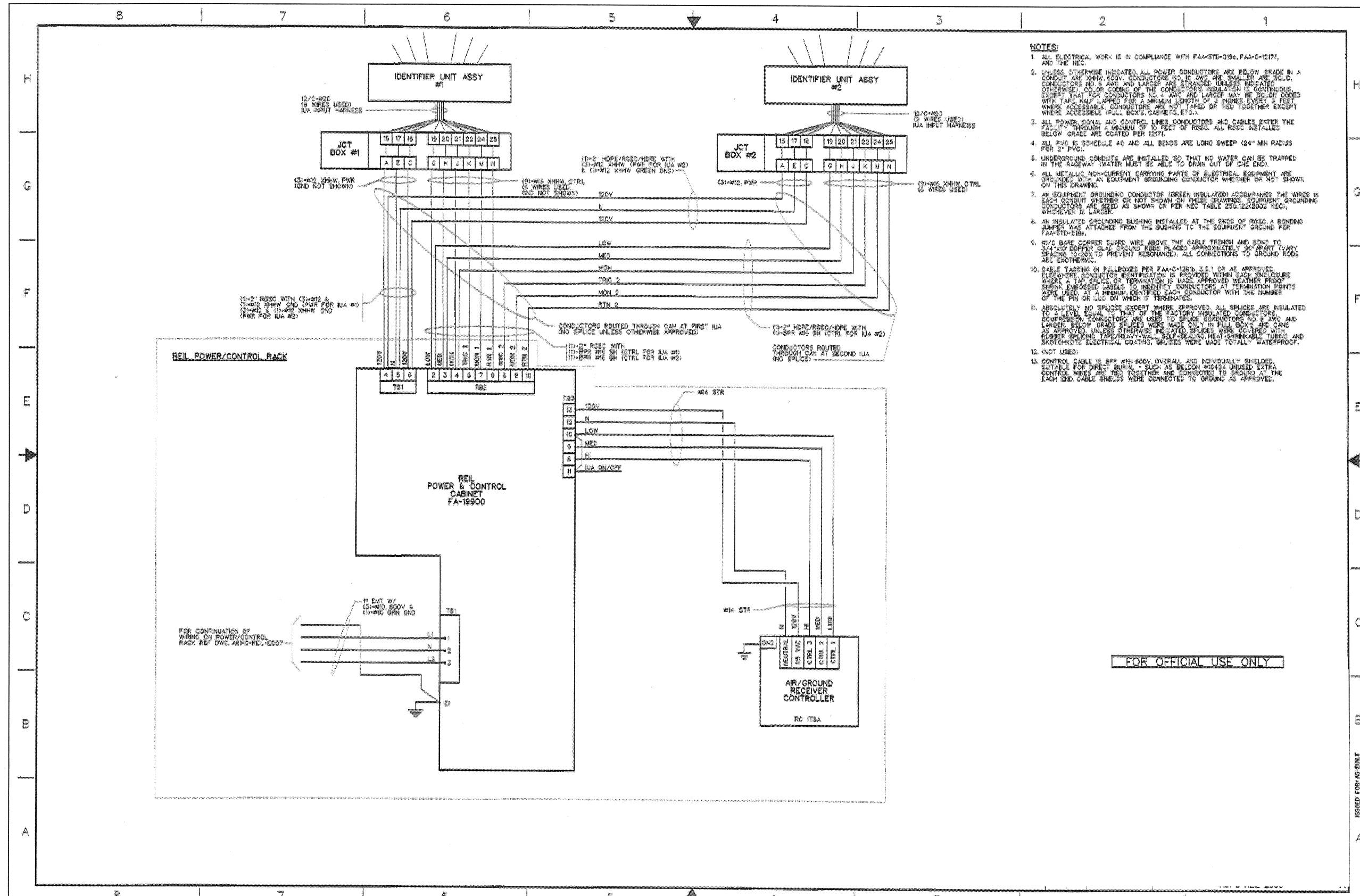
BY	DATE	REVISION

**STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
CENTRAL REGION**

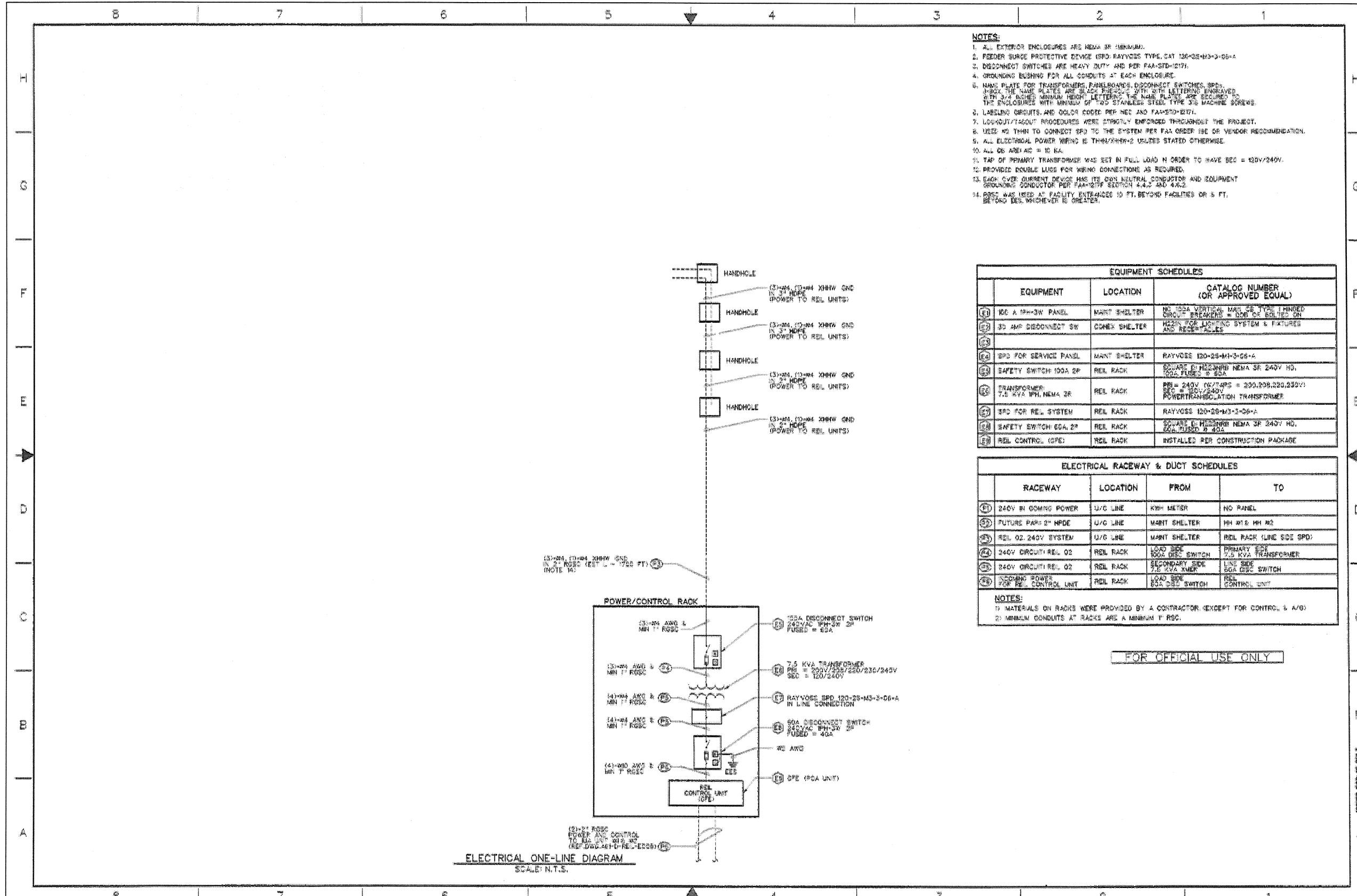
**KODIAK AIRPORT
KODIAK, ALASKA**
RUNWAY SAFETY AREA EXTENSION
PROJECT No. 53587
AIP No. 3-02-0158-017-2014
FAA REFERENCE DRAWING
REIL DETAILS

DATE:
3/18/2014
SHEET:
E17 OF E19
AS-BUILT SHEET:
OF

Date Received: 3/18/2014, 2:42 PM
 Drawing Name: E18
 File Path and Name: Z:\1300KRA - Kodiak Airport Runway 13356 and RSA\Working Drawings - RSA\13004_E18.dwg



Date Revised: 3/18/2014, 2:45 PM
Layout Name: E19
File Path and Name: Z:\13004KBA - Kodiak Airport Runway 1335 and 1336 Working Drawings - RSA\13004_E19.dwg



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REFERENCE ONLY

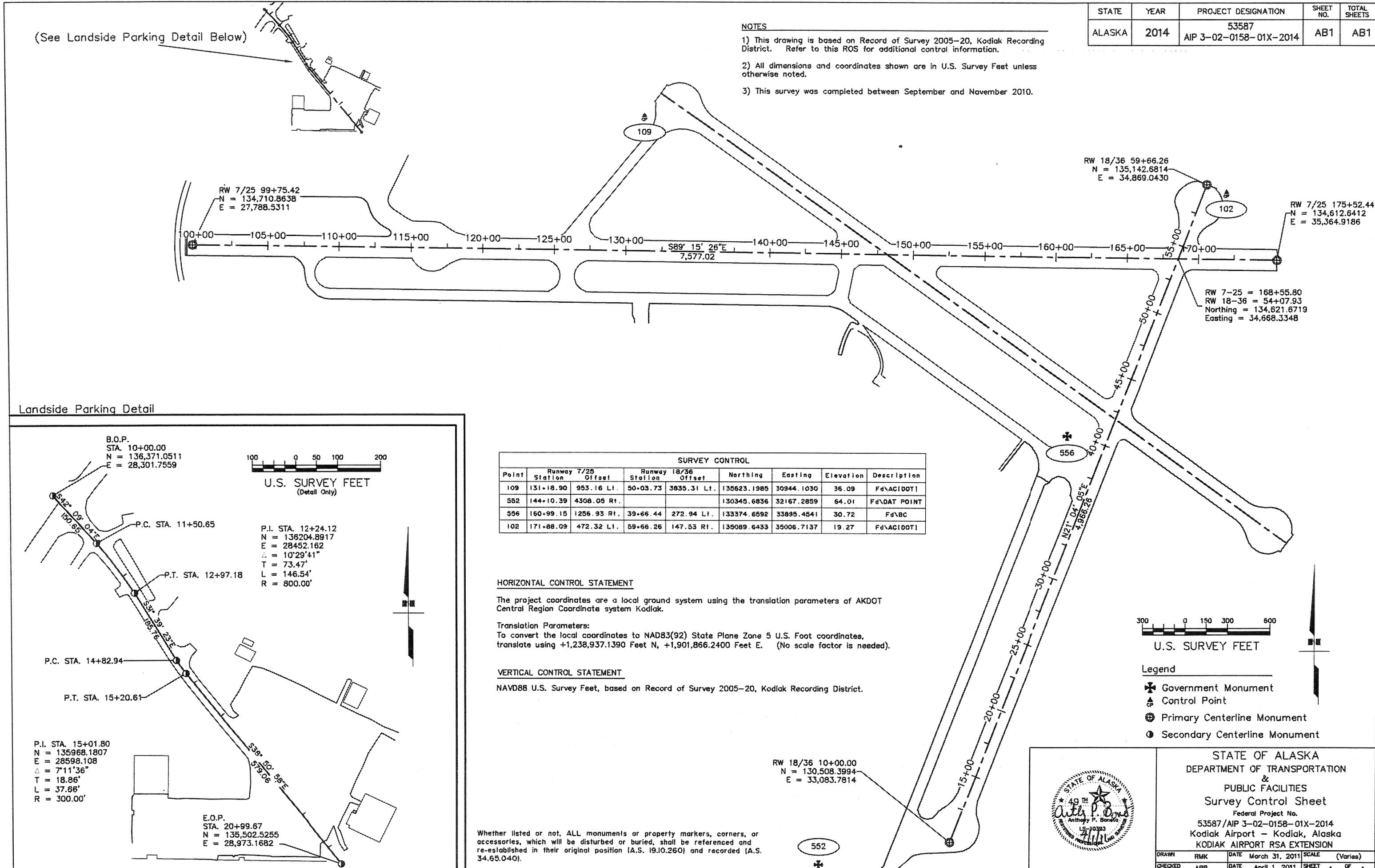
BY	DATE	REVISION

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
CENTRAL REGION

KODIAK AIRPORT
KODIAK, ALASKA
RUNWAY SAFETY AREA EXTENSION
PROJECT No. 53587
AIP No. 3-02-0158-017-2014
FAA REFERENCE DRAWING
REIL DETAILS

DATE:
3/18/2014
SHEET:
E19 OF E19
AS-BUILT SHEET:

CAUTION: DRAWING SCALE IS REDUCED

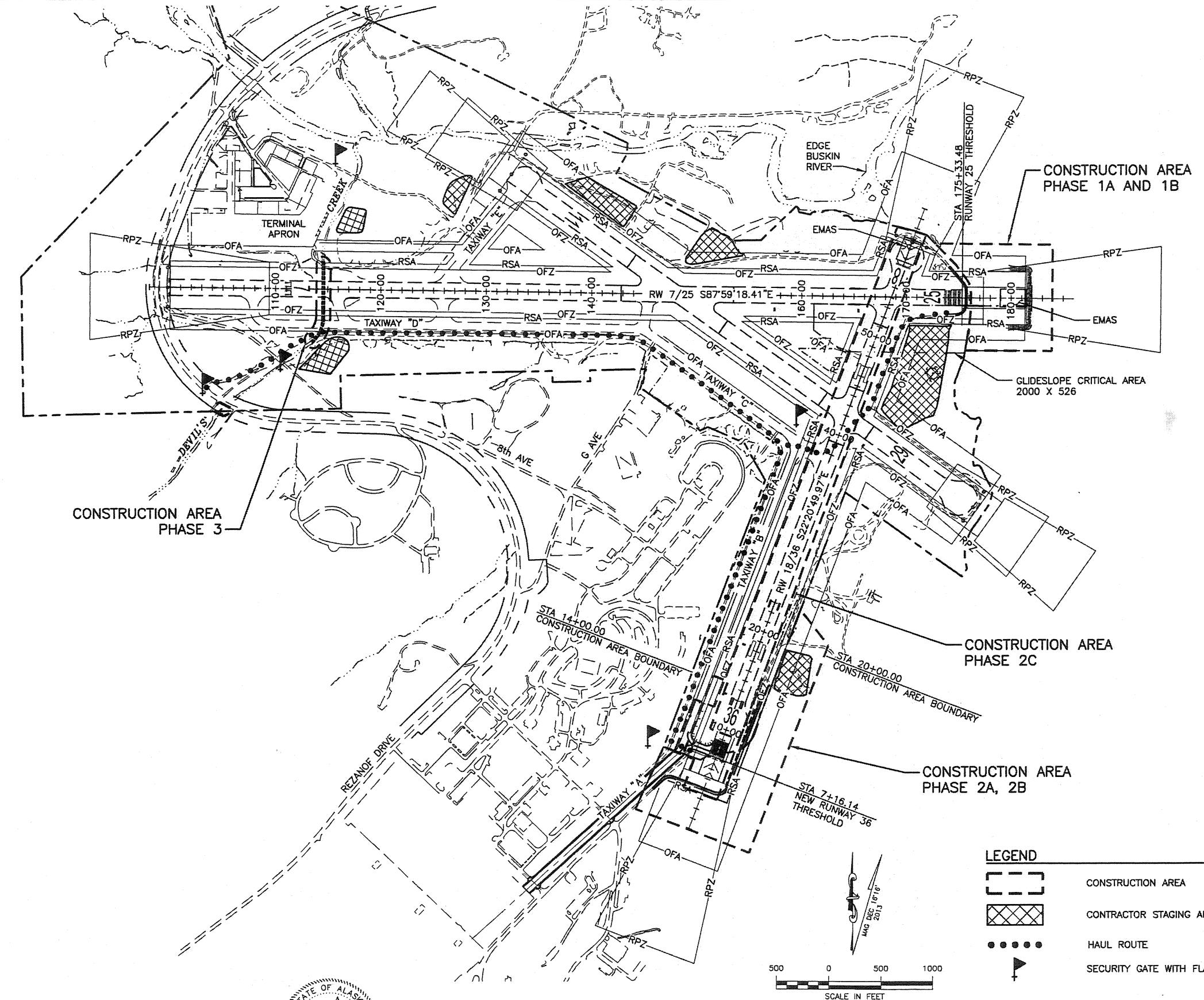


GENERAL HAUL ROUTE NOTES:

1. SPEED IS RESTRICTED TO 25 MPH ON AIRPORT PROPERTY AND 10 MPH NEAR NAVIGATION AIDS. FOLLOW LOCAL TRAFFIC LAWS WHEN TRAVELING ON PUBLIC ROADS.
2. ACCESS AND HAUL ROUTES SHALL BE MAINTAINED BY THE CONTRACTOR THROUGHOUT HAULING AND CONSTRUCTION OPERATIONS.
3. PORTIONS OF THE HAUL ROUTES AND STAGING AREAS MAY REQUIRE IMPROVEMENT TO SUPPORT CONTRACTOR'S OPERATIONS.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PLACEMENT, REMOVAL AND REPLACING ANY EXISTING FENCE OR GATES REQUIRED FOR ESTABLISHING ACCESS TO THE HAUL ROUTES.
5. FIELD-VERIFY SUITABILITY OF HAUL ROUTES AND STAGING AREAS SHOWN. DEVELOP AND MAINTAIN HAUL ROUTES AS REQUIRED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING THE HAUL ROUTES AND STAGING AREA DAMAGE TO PRECONSTRUCTION CONDITIONS. SEE SECTIONS GCP-40 AND GCP-70.
6. PROVIDE TRAFFIC CONTROL PLANS FOR EACH PHASE OF THE WORK. SEE SECTION G-710.
7. DUE TO THE LOCATION OF THE ELEMENTARY SCHOOL, HAUL OF EMBANKMENT AND SHORE PROTECTION MATERIAL SHALL NOT BE ALLOWED USING 8TH STREET AND G AVENUE.

Designed By: D.G.
Drawn By: L.W.
Checked By: J.W.

Date Revised: 3/26/2014, 10:13 AM
Sheet AD1
Layout Name: C:\pw\working\solo\09230371\AD1_EMAS_Ad1.dwg
File Path and Name:



PREPARED BY: HDR Alaska, Inc.

BY DATE

REVISION

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
CENTRAL REGION

KODIAK AIRPORT
KODIAK, ALASKA
KODIAK AIRPORT RSA EXTENSION, 2014
PROJECT No. 53587
AIP No. 3-02-0158-017-2014
PHASING PLAN
OVERVIEW

DATE:
3/26/2014
SHEET:
AD1 OF 15
AS-BUILT SHEET:
OF

PHASE 1A NOTES:

CONSTRUCTION SUMMARY:

WORK ASSOCIATED FOR THIS PHASE INCLUDES, BUT IS NOT LIMITED TO, THE FOLLOWING:

- IMPLEMENT SAFETY PLAN REQUIREMENTS INCLUDED IN THE SPCD.
- IMPLEMENT BEST MANAGEMENT PRACTICES.
- DEACTIVATE THE FAA GLIDE SLOPE AND REIL (TO BE PERFORMED BY FAA).
- INSTALL TEMPORARY REIL.
- INSTALL TEMPORARY THRESHOLD LIGHTS AS SHOWN OF THE PLANS.
- INSTALL TEMPORARY THRESHOLD BAR AND CHEVRONS AS SHOWN IN THE SAFETY PLAN DETAILS.
- COVER THRESHOLD AND RUNWAY 25 DESIGNATION NUMBER AS SHOWN IN THE SAFETY PLAN DETAILS.
- CONSTRUCT THE NEW EMBANKMENT FOR THE SAFETY AREA EXTENSION EAST OF THE EAST END OF RUNWAY 7/25 TO INCLUDE PLACING OF EMBANKMENT MATERIAL AND SHORE PROTECTION.
- REMOVE TEMPORARY LIGHTING AND MARKING FOLLOWING COMPLETION OF EMBANKMENTS.
- RESTORE REIL SYSTEMS TO ITS ORIGINAL LOCATION (TO BE PERFORMED BY THE FAA).
- REACTIVATE GLIDESLOPE (TO BE PERFORMED BY THE FAA).

2. AREAS CLOSED TO AIRCRAFT OPERATIONS

THE THRESHOLD OF RUNWAY 25 WILL BE RELOCATED BY 500' TO THE WEST. THE FIRST 500' OF RUNWAY WILL BE CLOSED TO AIRCRAFT OPERATIONS.

3. TAXI ROUTES

TAXI ROUTES WILL NOT BE AFFECTED DURING THIS PHASE AND NO TAXIWAY WILL BE CLOSED.

4. ARFF ACCESS ROUTES

ARFF ACCESS ROUTES WILL NOT BE AFFECTED DURING THIS PHASE.

5. CONSTRUCTION HAUL ROUTES

ROUTES ARE SHOWN ON THE PHASING PLANS AND SHALL BE GENERALLY AS FOLLOWS:

THE PRIMARY HAUL ROUTE SHALL BE FROM REZANOF DRIVE WEST, EXIT ON DRIVEWAY LOCATED NORTH OF DEVIL'S CREEK. ENTER AOA THROUGH SECURITY GATE AND PROCEED EAST ALONG SERVICE ROAD SOUTH OF TAXIWAYS D AND C. CROSS RUNWAY 18/36 AND 11/29 TO THE SERVICE ROAD EAST OF RUNWAY 18/36. ENTER PROJECT AREA.

6. IMPACTS ON NAVADS

THE GLIDE SLOPE FOR RUNWAY 25 WILL BE DEACTIVATED DUE TO THE RELOCATION OF THE RUNWAY 25 THRESHOLD.

RUNWAY 25 VASI WILL BE DEACTIVATED AND TEMPORARILY RELOCATED 500' TO THE WEST. NEW TEMPORARY FOUNDATIONS WILL BE CONSTRUCTED AND TEMPORARY WIRING INSTALLED.

THE REIL WILL BE DEACTIVATED AND TEMPORARILY RELOCATED BY 500' TO THE WEST. NEW TEMPORARY WIRING AND LIGHT BASES WILL BE INSTALLED.

EXISTING VASI AND REIL EQUIPMENT WILL BE UTILIZED.

7. LIGHTING AND MARKING CHANGES

THE RUNWAY 25 THRESHOLD WILL BE RELOCATED BY APPROXIMATELY 500' TO THE WEST. THE RUNWAY EDGE LIGHTS AND THRESHOLD LIGHTS FOR THE CLOSED END OF THE RUNWAY WILL BE DEACTIVATED. TEMPORARY THRESHOLD LIGHTS WILL BE INSTALLED AT THE RELOCATED THRESHOLD.

A TEMPORARY THRESHOLD BAR WILL BE PLACED AT THE NEW THRESHOLD WITH TEMPORARY CHEVRONS LEADING UP TO THE BAR.

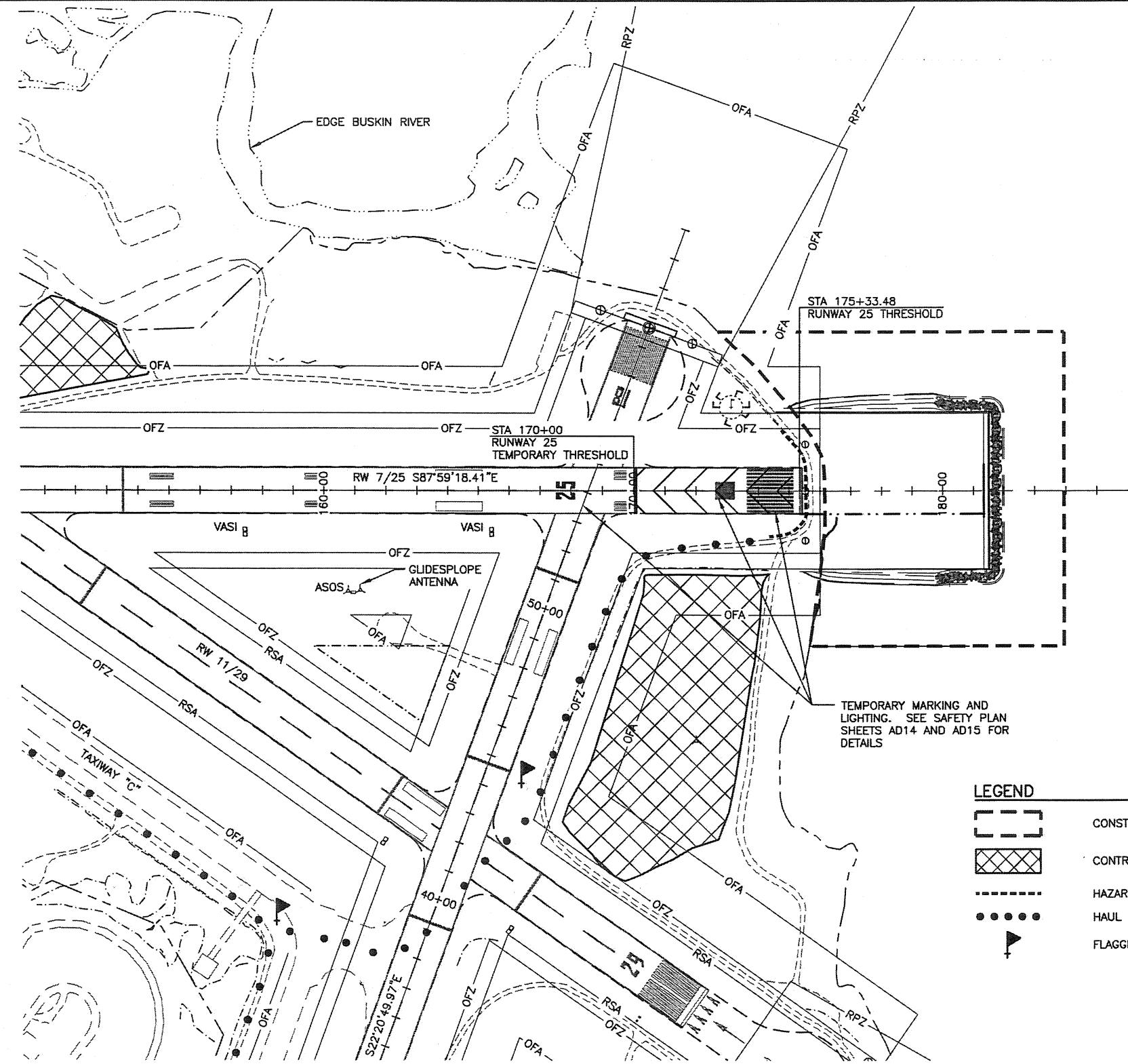
THE RUNWAY THRESHOLD AND DESIGNATION NUMBERS WILL BE COVERED.

8. AVAILABLE RUNWAY LENGTH

RUNWAY LENGTH WILL BE SHORTENED TO 7,000' FEET DURING THIS PHASE. SEE THE DECLARED DISTANCES INCLUDED AS FOLLOWS:

RUNWAY 7
ASDA = 7,000' TORA = 7,000' TODA = 7,000' LDA = 7,000'
RUNWAY 25
ASDA = 6,000' TORA = 6,000' TODA = 6,000' LDA = 7,000'

THERE IS NO SAFETY AREA BEYOND THE ENDS OR PRIOR TO THE BEGINNING OF EACH RUNWAY.



PREPARED BY: HDR Alaska, Inc.

BY	DATE	REVISION

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
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CENTRAL REGION

KODIAK AIRPORT
KODIAK, ALASKA
KODIAK AIRPORT RSA EXTENSION, 2014
PROJECT No. 53587
AIP No. 3-02-0158-017-2014
PHASING PLAN
PHASE 1A

DATE:
3/26/2014
SHEET:
AD2 of 15
AS-BUILT SHEET:
OF

PHASE 1B NOTES:

1. CONSTRUCTION SUMMARY:

WORK ASSOCIATED FOR THIS PHASE INCLUDES, BUT IS NOT LIMITED TO, THE FOLLOWING:

- IMPLEMENT SAFETY PLAN REQUIREMENTS INCLUDED IN THE SPCD.
- IMPLEMENT BEST MANAGEMENT PRACTICES.
- DEACTIVATE THE FAA GLIDE SLOPE, AND REIL (TO BE PERFORMED BY FAA).
- TEMPORARILY RELOCATE THE REIL LIGHTS AS SHOWN ON THE PLANS.
- INSTALL TEMPORARY THRESHOLD LIGHTS AS SHOWN OF THE PLANS.
- INSTALL TEMPORARY THRESHOLD BAR AND CHEVRONS AS SHOWN IN THE SAFETY PLAN DETAILS.
- COVER RUNWAY 25 THRESHOLD AND DESIGNATION NUMBER AS SHOWN IN THE SAFETY PLAN DETAILS.
- GRADE THE SAFETY AREA, AS NEEDED.
- SURFACE AND PAVE THE SAFETY AREA AS SHOWN ON THE PLANS.
- INSTALL RUNWAY 7/25 EMAS.
- MARK SAFETY AREA.
- REMOVE TEMPORARY LIGHTING AND MARKING FOLLOWING COMPLETION OF EMBANKMENTS.
- RESTORE THE REIL SYSTEMS TO THEIR ORIGINAL LOCATION.
- REACTIVATE GLIDE SLOPE (TO BE PERFORMED BY THE FAA).

2. AREAS CLOSED TO AIRCRAFT OPERATIONS

THE THRESHOLD OF RUNWAY 25 WILL BE RELOCATED BY 500' TO THE WEST. THE FIRST 500' OF RUNWAY WILL BE CLOSED TO AIRCRAFT OPERATIONS.

3. TAXI ROUTES

TAXI ROUTES WILL NOT BE AFFECTED DURING THIS PHASE AND NO TAXIWAY WILL BE CLOSED.

4. ARFF ACCESS ROUTES

ARFF ACCESS ROUTES WILL NOT BE AFFECTED DURING THIS PHASE.

5. CONSTRUCTION ACCESS AND HAUL ROUTES

HAUL ROUTES ARE SHOWN ON THE PHASING PLAN AND SHALL BE GENERALLY AS FOLLOWS:

THE PRIMARY HAUL ROUTE FOR THE HAULING OF MATERIALS INCLUDING EMBANKMENT AND SHORE PROTECTION MATERIAL SHALL BE FROM REZANOF DRIVE WEST, EXIT ON DRIVEWAY LOCATED NORTH OF DEVIL'S CREEK. ENTER AOA THROUGH SECURITY GATE AND PROCEED EAST ALONG SERVICE ROAD SOUTH OF TAXIWAYS D AND C. CROSS RUNWAY 18/36 AND 11/29 TO THE SERVICE ROAD EAST OF RUNWAY 18/36. ENTER PROJECT AREA.

6. IMPACTS ON NAVADS

THE GLIDE SLOPE FOR RUNWAY 25 WILL BE DEACTIVATED DUE TO THE RELOCATION OF THE RUNWAY 25 THRESHOLD.

RUNWAY 25 VASI WILL BE DEACTIVATED AND TEMPORARILY RELOCATED 500' TO THE WEST. NEW TEMPORARY FOUNDATIONS WILL BE CONSTRUCTED AND TEMPORARY WIRING INSTALLED.

THE REIL WILL BE DEACTIVATED AND TEMPORARILY RELOCATED BY 500' TO THE WEST. NEW TEMPORARY WIRING AND LIGHT BASES WILL BE INSTALLED.

EXISTING VASI AND REIL EQUIPMENT WILL BE UTILIZED.

7. LIGHTING AND MARKING CHANGES

THE RUNWAY 25 THRESHOLD WILL BE RELOCATED BY APPROXIMATELY 500' TO THE WEST. THE RUNWAY EDGE LIGHTS AND THRESHOLD LIGHTS FOR THE CLOSED END OF THE RUNWAY WILL BE DEACTIVATED. TEMPORARY THRESHOLD LIGHTS WILL BE INSTALLED AT THE RELOCATED THRESHOLD.

A TEMPORARY THRESHOLD BAR WILL BE PLACED AT THE NEW THRESHOLD WITH TEMPORARY CHEVRONS LEADING UP TO THE BAR.

THE RUNWAY DESIGNATION NUMBER WILL BE COVERED.

8. AVAILABLE RUNWAY LENGTH

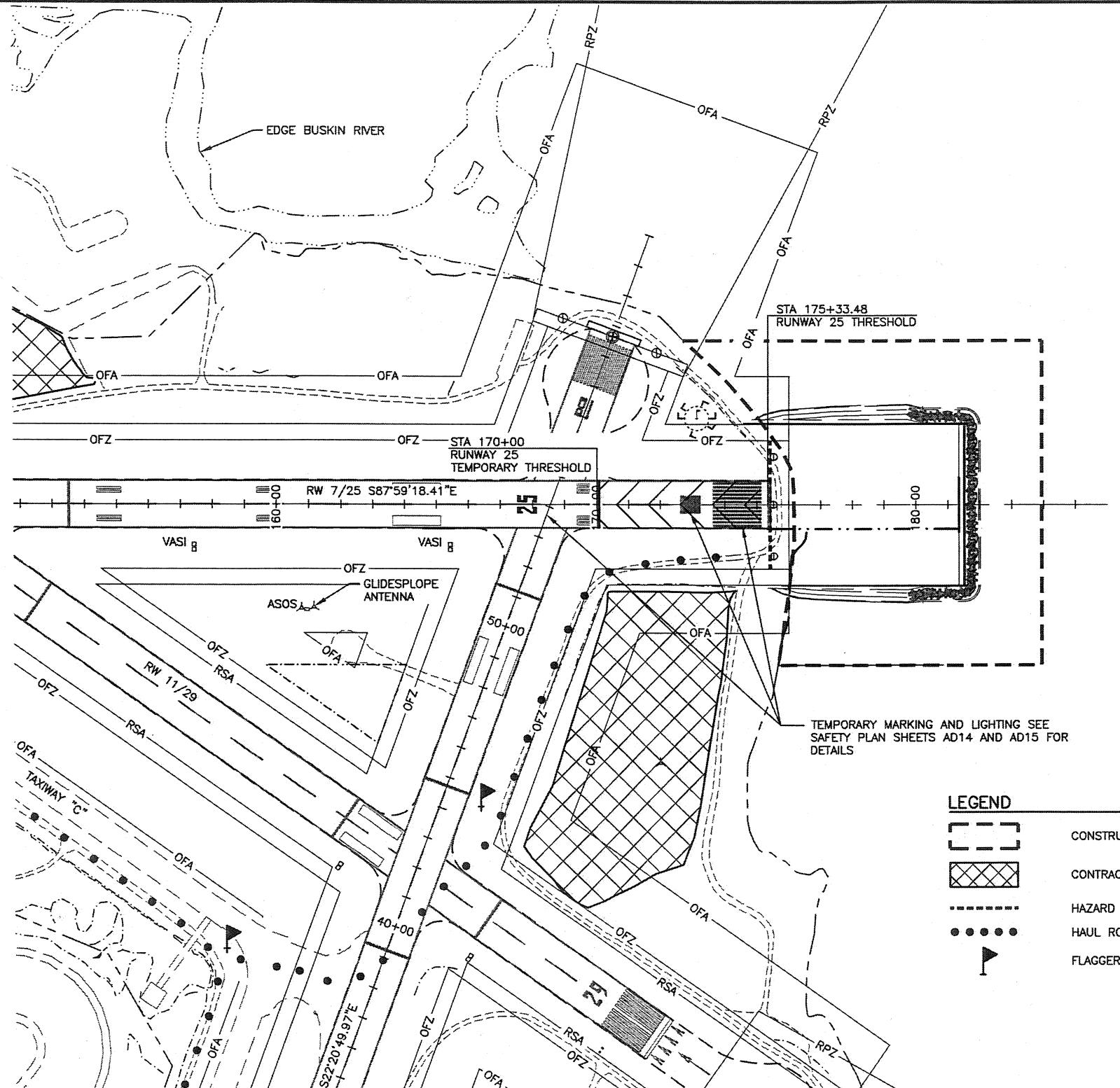
RUNWAY LENGTH WILL BE SHORTENED TO 7,033' FEET DURING THIS PHASE. SEE THE DECLARED DISTANCES INCLUDED AS FOLLOWS:

RUNWAY 7
ASDA = 7,000' TORA = 7,000' TODA = 7,000' LDA = 7,000'

RUNWAY 25

ASDA = 6,000' TORA = 6,000' TODA = 6,000' LDA = 7,000'

THERE IS NO SAFETY AREA BEYOND THE ENDS OR PRIOR TO THE BEGINNING OF EACH RUNWAY.



PREPARED BY: HDR Alaska, Inc.

BY	DATE	REVISION

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
CENTRAL REGION

KODIAK AIRPORT
KODIAK, ALASKA
KODIAK AIRPORT RSA EXTENSION, 2014
PROJECT No. 53587
AIP No. 3-02-0158-017-2014
PHASING PLAN
PHASE 1B

DATE:
3/28/2014
SHEET:
AD3 of 15
AS-BUILT SHEET:
0*

PHASE 2A NOTES:

1. CONSTRUCTION SUMMARY:

WORK ASSOCIATED WITH THIS PHASE INCLUDES, BUT IS NOT LIMITED TO, THE FOLLOWING:

- IMPLEMENT SAFETY PLAN REQUIREMENTS INCLUDED IN THE SPCD.
- IMPLEMENT BEST MANAGEMENT PRACTICES.
- DURING HOURS OF DAILY RUNWAY AND TAXIWAY CLOSURE:
 - DEACTIVATE RUNWAY LIGHTS.
 - DEACTIVATE VASI AND REIL FOR RUNWAY 36.
 - PLACE ILLUMINATED HAZARD AREA BARRIERS AS SHOWN IN THE SAFETY PLAN DRAWINGS.
- CONSTRUCT THE NEW EMBANKMENT AND SHORE AT THE SOUTH END OF RUNWAY 18-36.
- FOLLOWING THE HOURS OF DAILY RUNWAY AND TAXIWAY CLOSURE:
 - REMOVE FOD FROM RUNWAY AND TAXIWAY SURFACES.
 - FOLLOWING THE CLOSURE, REMOVE THE BARRIERS, "X'S.
 - RESTORE RUNWAY LIGHTING, VASI AND REIL SYSTEMS.

2. AREAS CLOSED TO AIRCRAFT OPERATIONS

RUNWAY 18-36 TAXIWAY A AND TAXIWAY B MAY BE CLOSED FROM 6:30 P.M. TO 6:30 A.M. DURING THIS PHASE.

3. DURATION OF CLOSURES

THIS PHASE IS EXPECTED TO BEGIN IN JUNE, 2014 AND BE COMPLETED BY DECEMBER, 2014.

4. TAXI ROUTES

TAXIWAY A AND B WILL BE CLOSED DURING PERIODS OF RUNWAY CLOSURE.

5. ARFF ACCESS ROUTES

ARFF ACCESS ROUTES WILL NOT BE AFFECTED DURING THIS PHASE.

6. HAUL ROUTES

THE HAUL ROUTES SHALL BE FROM REZANOF DRIVE WEST, EXIT ON DRIVEWAY LOCATED NORTH OF DEVILS CREEK. ENTER AOA THROUGH SECURITY GATE AND PROCEED ALONG THE SERVICE ROAD SOUTH OF TAXIWAYS D AND C, AND SOUTH ALONG THE WEST SIDE OF TAXIWAY B. CROSS TAXIWAY A AND ENTER PROJECT AREA.

7. IMPACTS ON NAVADS

THE RUNWAY 36 VASI AND REIL WILL BE DEACTIVATED DURING HOURS OF RUNWAY CLOSURE BY EITHER OBSCURING THE LIGHTS OR TURNING OFF POWER. (AS DIRECTED BY FAA)

8. LIGHTING AND MARKING CHANGES

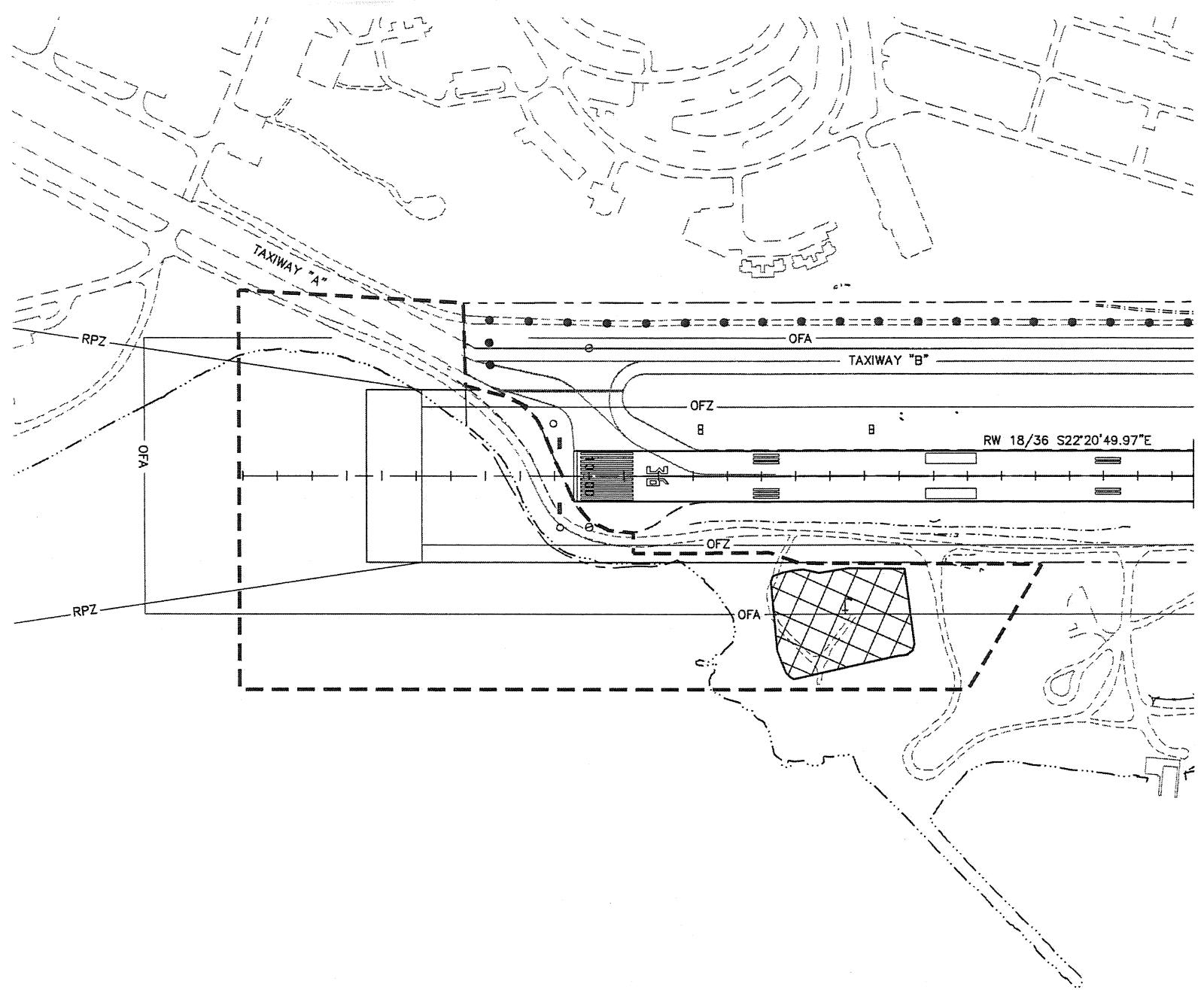
THE RUNWAY LIGHTS WILL BE DEACTIVATED DURING HOURS OF RUNWAY CLOSURE.

9. AVAILABLE RUNWAY LENGTH

THE LENGTH OF RUNWAY 18-36 WILL BE TO 5,009'.

Designed By: DO.
Drawn By: LN.
Checked By: JW.

Date Revised: 3/24/2014, 10:22 AM
Layout Name: AD4-EMS_A04_PhasingPlan-Phase2A_40F15
File Path and Name: C:\pworcking\sao\dp030371\A04_EMS_Ad4-AD4-PhasingPlan.dwg



LEGEND

- | | |
|--|----------------------------|
| | CONSTRUCTION AREA |
| | CONTRACTOR STAGING AREA |
| | HAZARD AREA BARRIERS |
| | HAUL ROUTE |
| | SECURITY GATE WITH FLAGGER |

MAG DEC 16'16"
2013

200 0 200 400
SCALE IN FEET



PREPARED BY: HDR Alaska, Inc.

BY	DATE	REVISION

STATE OF ALASKA
**DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES**
CENTRAL REGION

KODIAK AIRPORT
KODIAK, ALASKA
PROJECT No. 53587
AIP No. 3-02-0158-017-2014
PHASING PLAN
PHASE 2A

DATE: 3/18/2014
SHEET: AD4 OF 15
AS-BUILT SHEET: 0

PHASE 2B NOTES:

1. CONSTRUCTION SUMMARY:

WORK ASSOCIATED WITH THIS PHASE INCLUDES, BUT IS NOT LIMITED TO, THE FOLLOWING:

- IMPLEMENT SAFETY PLAN REQUIREMENTS INCLUDED IN THE SPCD.
- IMPLEMENT BEST MANAGEMENT PRACTICES.
- DURING HOURS OF DAILY RUNWAY AND TAXIWAY CLOSURE:
 - DEACTIVATE RUNWAY LIGHTS.
 - DEACTIVATE VASI AND REIL FOR RUNWAY 36.
 - PLACE LIGHTED "X'S OVER RUNWAY RESIGNATION MARKERS FOR RUNWAY 18 AND 36.
 - PLACE ILLUMINATED HAZARD AREA BARRIERS AS SHOWN IN THE SAFETY PLAN DRAWINGS.
- CONSTRUCTION DURING THIS PHASE WILL INCLUDE:
 - COMPLETE CONSTRUCTION OF THE SOUTHERN EMBANKMENT EXTENSION.
 - CONSTRUCT SOUTHERN EXTENSION OF RUNWAY, TAXIWAY A.
 - CONSTRUCT SAFETY AREA.
 - PAVE BLAST PAD.
 - CONSTRUCT SERVICE ROAD.
 - INSTALL LIGHTING.
- FOLLOWING THE HOURS OF DAILY RUNWAY AND TAXIWAY CLOSURE:
 - REMOVE FOD FROM RUNWAY AND TAXIWAY SURFACES.
 - FOLLOWING THE CLOSURE, REMOVE THE BARRIERS, "X'S.
 - RESTORE RUNWAY LIGHTING, VASI AND REIL SYSTEMS.

2. AREAS CLOSED TO AIRCRAFT OPERATIONS

RUNWAY 18-36, TAXIWAY A AND B MAY BE CLOSED FROM 6:30 P.M. TO 6:30 A.M. DURING THIS PHASE.

3. DURATION OF CLOSURES

THIS PHASE IS EXPECTED TO BEGIN IN JUNE, 2014 AND BE COMPLETED BY DECEMBER, 2014.

4. TAXI ROUTES

TAXIWAY A AND B WILL BE CLOSED DURING PERIODS OF RUNWAY CLOSURE.

5. ARFF ACCESS ROUTES

ARFF ACCESS ROUTES WILL NOT BE Affected DURING THIS PHASE.

6. HAUL ROUTES

THE HAUL ROUTES SHALL BE FROM REZANOF DRIVE WEST, EXIT ON DRIVEWAY LOCATED NORTH OF DEVILS CREEK, ENTER AOA THROUGH SECURITY GATE AND PROCEED EAST ALONG THE SERVICE ROAD SOUTH OF TAXIWAYS D AND C, AND SOUTH ALONG THE WEST SIDE OF TAXIWAY B. CROSS TAXIWAY A AND ENTER PROJECT AREA.

7. IMPACTS ON NAVADS

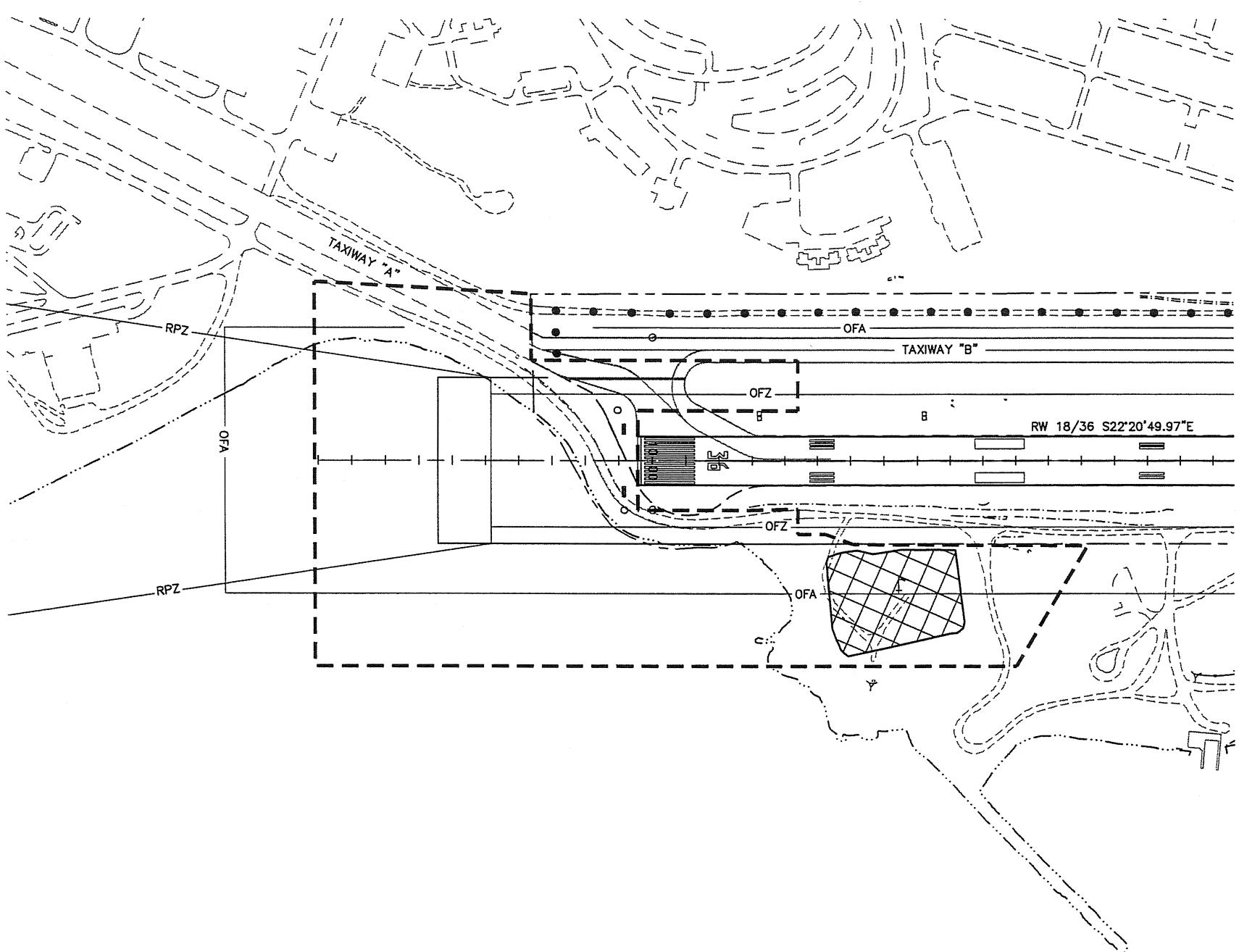
THE RUNWAY 36 VASI AND REIL WILL BE DEACTIVATED DURING HOURS OF RUNWAY CLOSURE BY EITHER OBSCURING THE LIGHTS OR TURNING OFF POWER. (AS DIRECTED BY FAA)

8. LIGHTING AND MARKING CHANGES

THE RUNWAY LIGHTS WILL BE DEACTIVATED DURING HOURS OF RUNWAY CLOSURE.

9. AVAILABLE RUNWAY LENGTH

THE LENGTH OF RUNWAY 18-36 WILL BE TO 5,009'.



PREPARED BY: HDR Alaska, Inc.

LEGEND			
			CONSTRUCTION AREA
			CONTRACTOR STAGING AREA
			HAZARD AREA BARRIERS
			HAUL ROUTE
			SECURITY GATE WITH FLAGGER

BY	DATE	REVISION

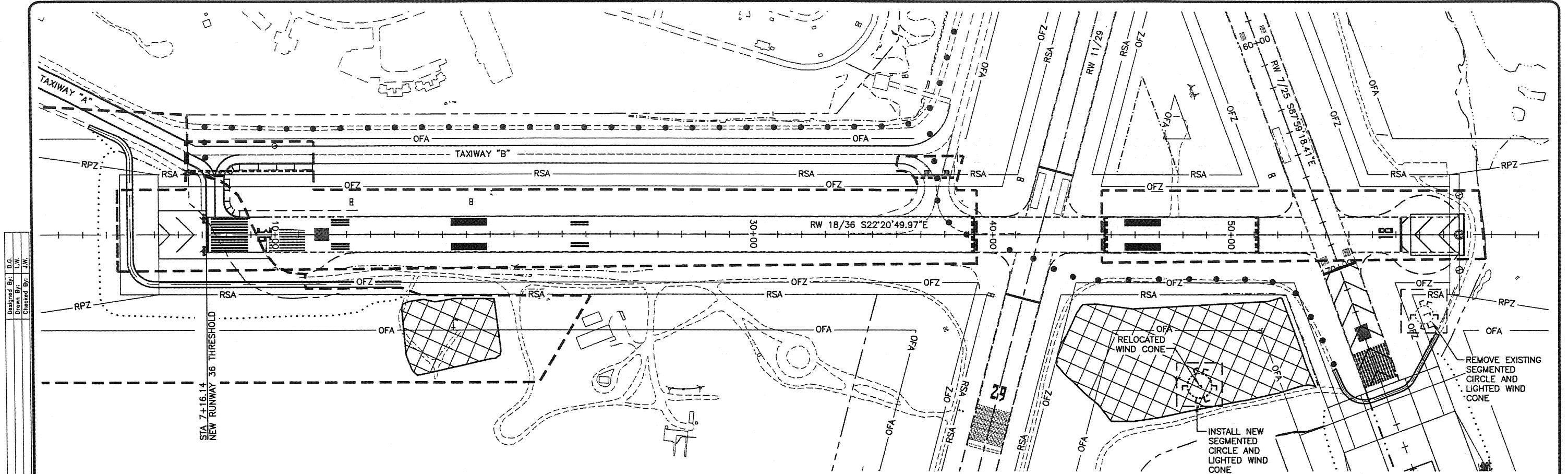
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
CENTRAL REGION

KODIAK AIRPORT
KODIAK, ALASKA
PROJECT No. 53587
AIP No. 3-02-0158-017-2014
PHASING PLAN
PHASE 2B

DATE:
3/18/2014
SHEET:
AD50F 15
AS-BUILT SHEET:
0F

200 0 200 400
SCALE IN FEET

MAG DEC 16'16'
2013



PHASE 2C NOTES:

1. CONSTRUCTION SUMMARY:

WORK ASSOCIATED WITH THIS PHASE INCLUDES, BUT IS NOT LIMITED TO, THE FOLLOWING:

- IMPLEMENT SAFETY PLAN REQUIREMENTS INCLUDED IN THE SPCD.
- PLACE LIGHTED RUNWAY CLOSURE MARKERS AT ENDS OF RUNWAY AS SHOWN IN THE SAFETY PLAN.
- DEACTIVATE RUNWAY AND TAXIWAY LIGHTS FOR THE PROJECT AREA.
- PLACE HAZARD BARRIERS AS SHOWN IN THE SAFETY PLAN.
- REMOVE THRESHOLD EDGE LIGHTS, AS REQUIRED, FOR RUNWAY 18.
- INSTALL NEW THRESHOLD LIGHTS FOR THE RELOCATED THRESHOLD OF RUNWAY 18.
- REMOVE EXISTING RUNWAY AND TAXIWAY STRIPING AS SHOWN ON THE MARKING DEMOLITION PLAN.
- INSTALL EMAS AT NORTH END OF THE RUNWAY 18/36 SAFETY AREA.
- MARK RUNWAY 18/36, TAXIWAY A AND TAXIWAY B AS SHOWN ON THE PLANS.
- REFURBISH VASI
- REPAVE TAXIWAY C
- INSTALL NEW SEGMENTED CIRCLE AND LIGHTED WIND CONE
- REMOVE EXISTING SEGMENTED CIRCLE AND LIGHTED WIND CONE
- INSTALL REILS AT THEIR NEW LOCATIONS.
- REACTIVATE RUNWAY, TAXIWAY LIGHTS AND NAVAIDS.
- REMOVE CLOSURE MARKERS AND BARRIERS.

2. AREAS CLOSED TO AIRCRAFT OPERATIONS

RUNWAY 18/36 SHALL BE CLOSED TO AIRCRAFT OPERATIONS.

TAXIWAYS A AND C BETWEEN TAXIWAY B AND RUNWAY 18/36 SHALL BE CLOSED.

3. DURATION OF CLOSURES

PHASE 2C WILL BEGIN IMMEDIATELY FOLLOWING COMPLETION OF PHASE 2B (APPROXIMATELY AUGUST, 2015) AND SHALL BE COMPLETED BY NOVEMBER 30, 2015.

4. TAXI ROUTES

AIRCRAFT WILL USE TAXIWAY A AND B TO ACCESS RUNWAYS 7/25 AND 11/29.

5. ARFF ACCESS ROUTES

ARFF ACCESS ROUTES WILL NOT BE AFFECTED DURING THIS PHASE.

6. CONSTRUCTION ACCESS AND HAUL ROUTES

ACCESS TO THE HAUL ROUTES IS SHOWN ON THE PHASING PLAN AND SHALL BE GENERALLY AS FOLLOWS:

THE ACCESS ROUTE WILL BE FROM REZANOF DRIVE WEST, PROCEED VIA 8TH STREET AND G AVENUE TO THE SECURITY GATE ADJACENT TO THE USCG ARFF FACILITY. ENTER THE AOA AND PROCEED EAST ALONG SERVICE ROAD SOUTH OF TAXIWAYS D AND C AND WEST OF TAXIWAY B. CROSS TAXIWAY A AND ENTER PROJECT AREA.

ALTERNATE ACCESS WILL BE FROM REZANOF DRIVE WEST, PROCEED FROM THE TERMINAL ENTRANCE ROAD TO THE DEVIL'S CREEK SERVICE ROAD. ENTER THE AOA THROUGH THE GATE AT DEVIL'S CREEK AND THEN PROCEED VIA THE EXISTING SERVICE ROADS NORTH ALONG TAXIWAY E AND EAST ON THE NORTH SIDE OF RUNWAYS 11/29 AND 7/25 TO THE PROJECT AREA.

7. IMPACTS ON NAVAIDS

THE RUNWAY 36 VASI AND REIL LIGHTS WILL BE DEACTIVATED. VASI WILL BE REFURBISHED AND REIL LIGHTS RELOCATED TO THEIR FINAL POSITION.

8. LIGHTING AND MARKING CHANGES

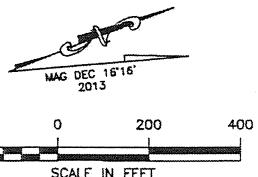
TEMPORARY LIGHTED RUNWAY CLOSURE MARKERS SHALL BE PLACED ON RUNWAY CENTERLINE OR NEAR THE EXISTING OR RELOCATED RUNWAY DESIGNATION NUMBERS DEPENDING ON CONSTRUCTION AND MARKING ACTIVITIES.

9. AVAILABLE RUNWAY LENGTH

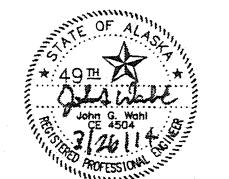
RUNWAY 18/36 SHALL BE CLOSED.

LEGEND

	CONSTRUCTION AREA
	CONTRACTOR STAGING AREA
	HAZARD AREA BARRIERS
	HAUL ROUTE
	SECURITY GATE WITH FLAGGER



200
0
200
400
SCALE IN FEET



PREPARED BY: HDR Alaska, Inc.

BY	DATE	REVISION

STATE OF ALASKA
**DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES**
CENTRAL REGION

KODIAK AIRPORT
KODIAK, ALASKA
PROJECT No. 53587
AIP No. 3-02-0158-017-2014
PHASING PLAN
PHASE 2C

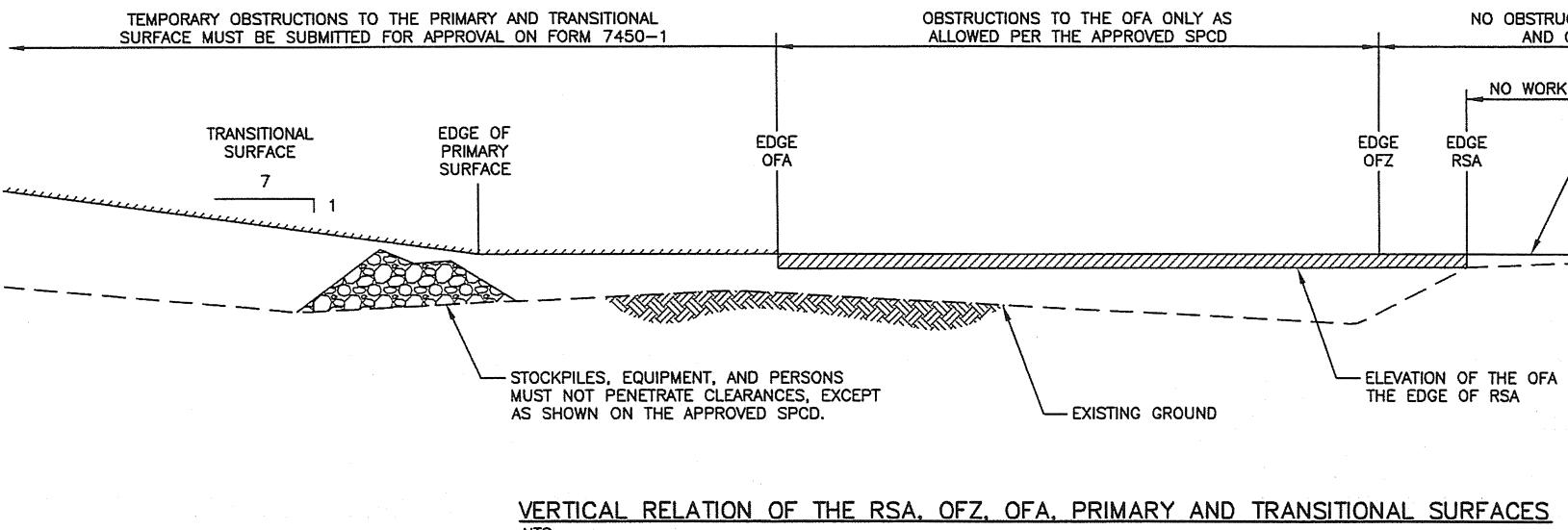
DATE:
3/26/2014
SHEET:
AD6 of 15
AS-BUILT SHEET:
OF

GENERAL SAFETY PLAN NOTES:

1. SUBMIT A SAFETY PLAN COMPLIANCE DOCUMENT (SPCD) PER FAA AC 150/5370-2F, OPERATIONAL SAFETY ON AIRPORTS DURING CONSTRUCTION (SAFETY AC), WITHIN 30 DAYS OF RECEIVING NOTICE TO PROCEED (NTP) TO THE ENGINEER FOR APPROVAL.
2. FOLLOWING APPROVAL OF THE SPCD, IF SUBSEQUENT CHANGES ARE NEEDED, SUBMIT A REVISION TO THE ENGINEER FOR REVIEW AND APPROVAL. ALLOW UP TO 40 DAYS FOR REVIEW OF REVISED SPCD.
3. SEE SHEETS AD9 THROUGH AD15 FOR CONSTRUCTION PHASE SPECIFIC SAFETY PLANS.
4. WHENEVER THE PLANS OR SPECIFICATIONS CALL FOR COORDINATION, NOTIFICATION, CONTACT, OR OTHER INTERACTION WITH FAA, AIRPORT MANAGEMENT, MAINTENANCE AND OPERATIONS, ARFF PERSONNEL, AIRPORT TENANTS, AIRPORT USERS, ANY LOCAL, STATE, OR FEDERAL AGENCY, GROUP, OR ASSOCIATION, OR THE GENERAL PUBLIC, SUCH ACTIVITY SHALL BE DONE THROUGH, IN THE PRESENCE OF, OR WITH THE WRITTEN APPROVAL OF THE ENGINEER. ALLOW SUFFICIENT TIME FOR COORDINATION AND APPROVALS WITHIN PROPOSED WORK SCHEDULES. SEE THE CSPP FOR REQUIRED LEAD TIMES FOR COORDINATION WITH CERTAIN GROUPS.
5. THE CONTRACTOR MUST REPORT ANY SAFETY ISSUES TO THE ENGINEER AND AIRPORT MANAGER UPON DISCOVERY. THE CONTRACTOR MUST TAKE IMMEDIATE ACTION TO RESOLVE SAFETY ISSUES AS DIRECTED.
6. THE TERM "ACTIVE RUNWAY" REFERS TO RUNWAY OR PORTION OF THE RUNWAY OPEN TO LANDING, TAKEOFF AND TAXIING OPERATIONS.
7. NO CONSTRUCTION ACTIVITY IS ALLOWED WITHIN THE RUNWAY SAFETY AREA (RSA) OF THE ACTIVE RUNWAY. NO CONSTRUCTION ACTIVITY IS ALLOWED WITHIN THE TAXIWAY SAFETY AREA (TSA) OR TAXIWAY OBJECT FREE AREA (TOFA) WHILE THE TAXIWAY IS OPEN FOR AIRCRAFT OPERATIONS. COORDINATE ANY RESTRICTIONS TO AIRCRAFT OPERATIONS WITH AIRPORT USERS AND THE AIRPORT MANAGER.
8. DO NOT STORE MATERIALS OR PARK EQUIPMENT WITHIN THE OFA OF THE ACTIVE RUNWAY. USE STOCKPILE AND STAGING AREAS SHOWN TO STORE MATERIALS OR PARK EQUIPMENT. EQUIPMENT MAY BE PARKED IN THE "CONSTRUCTION AREA" PROVIDED IT DOES NOT CONFLICT WITH OTHER LIMITATIONS. ALL TEMPORARY STAGING AND STOCKPILE LOCATIONS OTHER THAN "STOCKPILE AREA" REQUIRE APPROVAL OF THE ENGINEER. ENSURE ADEQUATE DISTANCE FOR JET AND PROP BLAST PROTECTION.
9. EQUIPMENT WILL NOT BE ALLOWED OUTSIDE OF THE FOOTPRINT OF THE PROJECT EXCEPT FOR EXISTING PADS AS APPROVED BY THE ENGINEER.
10. EQUIPMENT WILL ONLY BE PERMITTED INSIDE THE AIRPORT OPERATIONS AREAS (AOA) AS APPROVED BY THE AIRPORT MANAGER THROUGH THE ENGINEER. SEE GCP-80 OF THE SPECIFICATIONS FOR LIMITATIONS AND OPERATIONAL SAFETY CONCERNs.
11. SNOW OR EARTH BERMS, STORAGE OF EQUIPMENT AND MATERIALS, OR ANY GROUND DISTURBING ACTIVITIES WILL NOT BE ALLOWED IN THE GLIDESLOPE CRITICAL AREA EXCEPT FOR WORK DEPICTED ON THE PLANS WHILE THE GLIDESLOPE IS SHUT DOWN AND BEFORE FAA CONDUCTS THE FLIGHT CHECK.
12. ARFF MUST HAVE ACCESS TO THE ENTIRE AIRPORT DURING EMERGENCIES. MAINTAIN SUITABLE CORRIDORS AND COORDINATE ACCESS WITH ARFF PERSONNEL THROUGH THE ENGINEER AS REQUIRED.
13. MAINTAIN AIRCRAFT ACCESS TO TAXIWAYS AND APRONS DURING AIR OPERATIONS AS SHOWN ON THE PLANS. WHEN TAXIWAYS ARE CLOSED, HAZARD BARRIERS NEED TO BE PLACED AS SHOWN ON THE PLANS. CONTACT THE AIRPORT MANAGER AND AFFECTION PARTIES 45 DAYS PRIOR TO FULL CLOSURE OF ANY TAXIWAY (SEE CSPP FOR MORE INFORMATION).
14. RUNWAY AND TAXIWAY WORK AREA LIMITS WILL BE TEMPORARILY CLOSED FOR AIRCRAFT OPERATIONS AS SHOWN ON THE SAFETY AND PHASING PLAN SHEETS AND IN ACCORDANCE WITH CSPP AND THE APPROVED SPCD.
15. MARK OPEN TRENCHES OR EXCAVATIONS WITH HAZARD AREA BARRIERS. LIGHT WITH RED LIGHTS DURING HOURS OF RESTRICTED VISIBILITY OR DARKNESS. SEE CSPP (SECTION 18) REGARDING RESTRICTIONS FOR TRENCH AND EXCAVATION LOCATIONS.
16. HAZARDOUS AREA BARRIERS MAY BE REQUIRED AT ADDITIONAL LOCATIONS, OR ADJUSTMENT MAY BE REQUIRED. LOCATE BARRIERS AS DIRECTED BY THE ENGINEER. SEE HAZARDOUS AREA BARRIER DETAIL ON SAFETY PLAN DETAILS SHEET.
17. COORDINATE THROUGH THE ENGINEER FOR CONTRACTOR ACTIVITIES THAT MAY INTERFERE WITH THE OFA AND WEATHER INSTRUMENTS. SEE THIS SHEET FOR VERTICAL CLEARANCES.
18. MONITOR TEMPORARY MARKINGS AND LIGHTING SYSTEMS FREQUENTLY AND TAKE ACTION TO CORRECT DEFICIENCIES IMMEDIATELY UPON DISCOVERY AND NOTIFICATION.
19. CARRY OUT CONTINUING COORDINATION THROUGH THE ENGINEER USING WEEKLY EMAIL UPDATES AND PROGRESS MEETINGS WITH THE AIRPORT MANAGER, AIRPORT MAINTENANCE, ARFF PERSONNEL, AIRPORT USERS AND OTHER PARTIES LISTED IN SECTION 1A OF THE SCPP.
20. PROVIDE WATER FOR DUST CONTROL AS REQUIRED, AND AS DIRECTED. DUST, SMOKE, STEAM, OR OTHER AIRBORNE PARTICULATES CAUSED BY CONTRACTOR ACTIVITIES MAY BE CONSIDERED A SAFETY VIOLATION.
21. KEEP ALL ACTIVE HAUL ROUTES AND AIRPORT SURFACES CLEAN OF MATERIAL. REMOVE SPILLED OR TRACKED MATERIAL IMMEDIATELY TO AVOID VEHICLE ACCIDENTS OR AIRCRAFT DAMAGE.
22. REMOVE ALL FOREIGN OBJECT DEBRIS (FOD) IMMEDIATELY UPON DISCOVERY OR NOTIFICATION. FAILURE TO REMOVE FOD MAY BE CONSIDERED A SAFETY VIOLATION AS DETERMINED BY THE ENGINEER.
23. WHEN A RUNWAY IS OPEN TO AIRCRAFT OPERATIONS, CONSTRUCTION, INCLUDING EXCAVATIONS, MAY BE PERMITTED IN THE ROFA. HOWEVER, EQUIPMENT MUST BE REMOVED FROM THE ROFA WHEN NOT IN USE, AND MATERIAL SHOULD NOT BE STOCKPILED IN THE ROFA IF NOT NECESSARY. STOCKPILING MATERIAL IN THE OFA REQUIRES SUBMITAL OF A 7460-1 FORM AND JUSTIFICATION PROVIDED TO THE APPROPRIATE FAA AIRPORTS REGIONAL OR DISTRICT OFFICE FOR APPROVAL. NO EQUIPMENT OR VEHICLES ARE TO BE PARKED, OR LEFT UNATTENDED, IN THE ROFA AT ANY TIME.
24. KEEP ALL WORKERS, EQUIPMENT AND MATERIALS OUTSIDE OF THE ACTIVE RUNWAY SAFETY AREA, NAVIAD CRITICAL AREAS, AND APPROACH SURFACES DURING AIRCRAFT OPERATIONS, AND ONLY ENTER THESE AREAS AS REQUIRED AND AS APPROVED.
25. KEEP ALL WORKERS, EQUIPMENT, AND MATERIALS OUTSIDE OF THE TAXIWAY SAFETY AREAS AND TAXIWAY OBJECT FREE AREAS WHILE TAXIWAYS ARE OPEN TO AIRCRAFT. ALL TAXIING AIRCRAFT HAVE THE RIGHT OF WAY.
26. PROVIDE AN AIRPORT FLAGGER IF HAULING ACROSS AN ACTIVE TAXIWAY AND/OR ACTIVE RUNWAY AND IS APPROVED AND INCLUDED IN THE APPROVED SPCD.
27. PROVIDE A GATE GUARD IF ANY GATE REMAINS OPEN DURING CONSTRUCTION ACTIVITIES.
28. TEMPORARY CLOSURE OF ANY RUNWAY OR TAXIWAY MUST BE DEPICTED IN THE APPROVED SPCD. COORDINATE WITH THE AIRPORT MANAGER, FAA, AIRPORT TENANTS AND OPERATORS, THROUGH THE ENGINEER AT LEAST 45 DAYS IN ADVANCE OF ACTUAL CLOSURES. REFER TO THE SCPP FOR ALLOWED CLOSURE DURATIONS.
29. HAZARDOUS AREA BARRIERS FOR THE CONTRACTOR'S USE ARE AVAILABLE FROM THE AIRPORT MANAGER. FLAGS AND FLASHERS MAY ALSO BE AVAILABLE. THE CONTRACTOR SHALL CONFIRM AVAILABILITY AND PROVIDE ADDITIONAL FLAGS AND FLASHERS AS REQUIRED. THE CONTRACTOR SHALL ALSO PROVIDE FRESH BATTERIES FOR FLASHERS.
30. PROVIDE PICK UP BROOM TRUCK (STREET SWEEPER), OR OTHER EQUIPMENT AS APPROVED FOR CONTROL OF FOD ON ACTIVE SURFACES. CLEAN ACTIVE SURFACES OF FOD IMMEDIATELY UPON DISCOVERY OR NOTIFICATION.

Designed By: DG
Reviewed By: LW
Checked By: JW
Approved By: CC

Date Revised: 3/18/2014, 1:10 PM
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File Path and Name: C:\working\sea\0039371\AD9_EMAS_Ad7_ADB_SafetyPlan.dwg



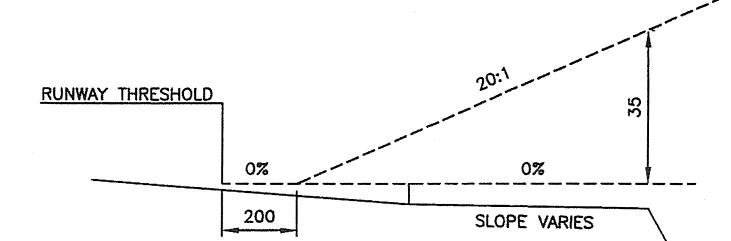
PREPARED BY: HDR Alaska, Inc.

BY	DATE	REVISION

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
CENTRAL REGION

KODIAK AIRPORT
KODIAK, ALASKA
KODIAK AIRPORT RSA EXTENSION, 2014
PROJECT No. 53587
AIP No. 3-02-0158-017-2014
SAFETY PLAN NOTES

DATE: 3/18/2014
SHEET: AD7 OF 15
AS-BUILT SHEET: OF



APPROACH / DEPARTURE SURFACES (TYPICAL)
NTS

PHASE 1A AND 1B	RSA OR TSA (ft.)*	OFZ (ft.)*	OFA (ft.)*	PRIMARY SURFACE (ft.)*
RW 7-25	150	200	400	500
PHASE 1A AND 1B	RSA OR TSA (ft.)*	OFZ (ft.)*	OFA (ft.)*	PRIMARY SURFACE (ft.)*
RW 18-36	150	200	400	500
TW A	85.5			N/A
TW B	85.5			N/A

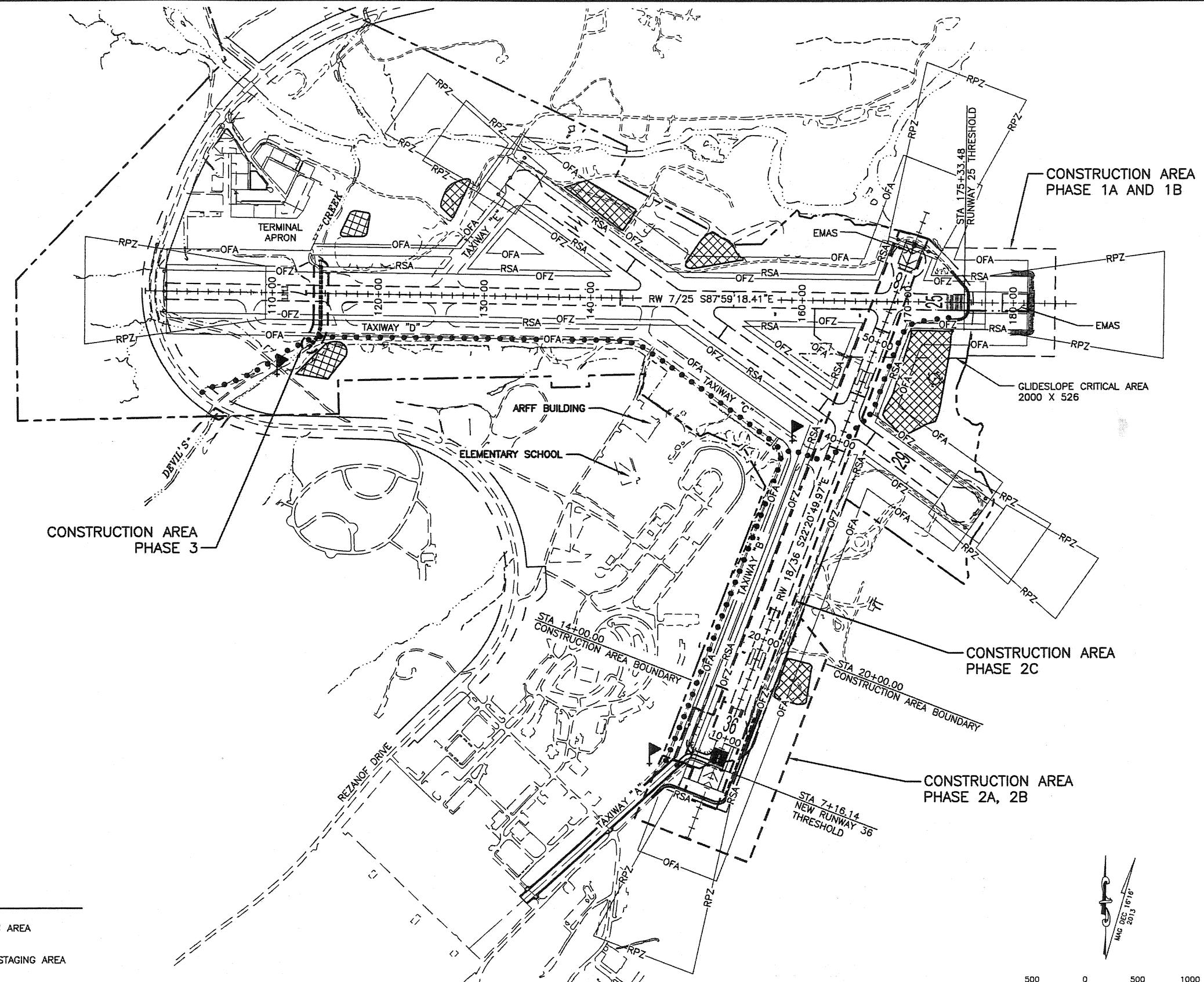
* DISTANCE MEASURED FROM RW OR TW CENTERLINE

GENERAL HAUL ROUTE NOTES:

1. SPEED IS RESTRICTED TO 25 MPH ON AIRPORT PROPERTY AND 10 MPH NEAR NAVIGATION AIDS. FOLLOW LOCAL TRAFFIC LAWS WHEN TRAVELING ON PUBLIC ROADS.
2. HAUL ROUTES SHALL BE MAINTAINED BY THE CONTRACTOR THROUGHOUT HAULING AND CONSTRUCTION OPERATIONS.
3. PORTIONS OF THE HAUL ROUTES AND STAGING AREAS MAY REQUIRE IMPROVEMENT TO SUPPORT CONTRACTOR'S OPERATIONS.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PLACEMENT, REMOVAL AND REPLACING ANY EXISTING FENCE OR GATES REQUIRED FOR ESTABLISHING ACCESS TO THE HAUL ROUTES.
5. FIELD-VERIFY SUITABILITY OF HAUL ROUTES AND STAGING AREAS SHOWN. DEVELOP AND MAINTAIN HAUL ROUTES AS REQUIRED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING THE HAUL ROUTES AND STAGING AREA DAMAGE TO PRECONSTRUCTION CONDITIONS. SEE SECTIONS GCP-40 AND GCP-70.
6. PROVIDE TRAFFIC CONTROL PLANS FOR EACH PHASE OF THE WORK. SEE SECTION G-710.

Designed By: D.G.
Drawn By: L.W.
Checked By: J.W.

Date Revised: 3/26/2014, 10:26 AM
Sheet A3B
Layout Name: C:\pw\working\sta\dp\2013\717\A3B_EMAS_Ad7-AD8_SafetyPlan.dwg
File Path and Name:



LEGEND

- [Dashed Box] CONSTRUCTION AREA
- [Cross-hatched Box] CONTRACTOR STAGING AREA
- [Four dots] HAUL ROUTE
- [Flag icon] SECURITY GATE WITH FLAGGER



PREPARED BY: HDR Alaska, Inc.

BY DATE REVISION

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
CENTRAL REGION

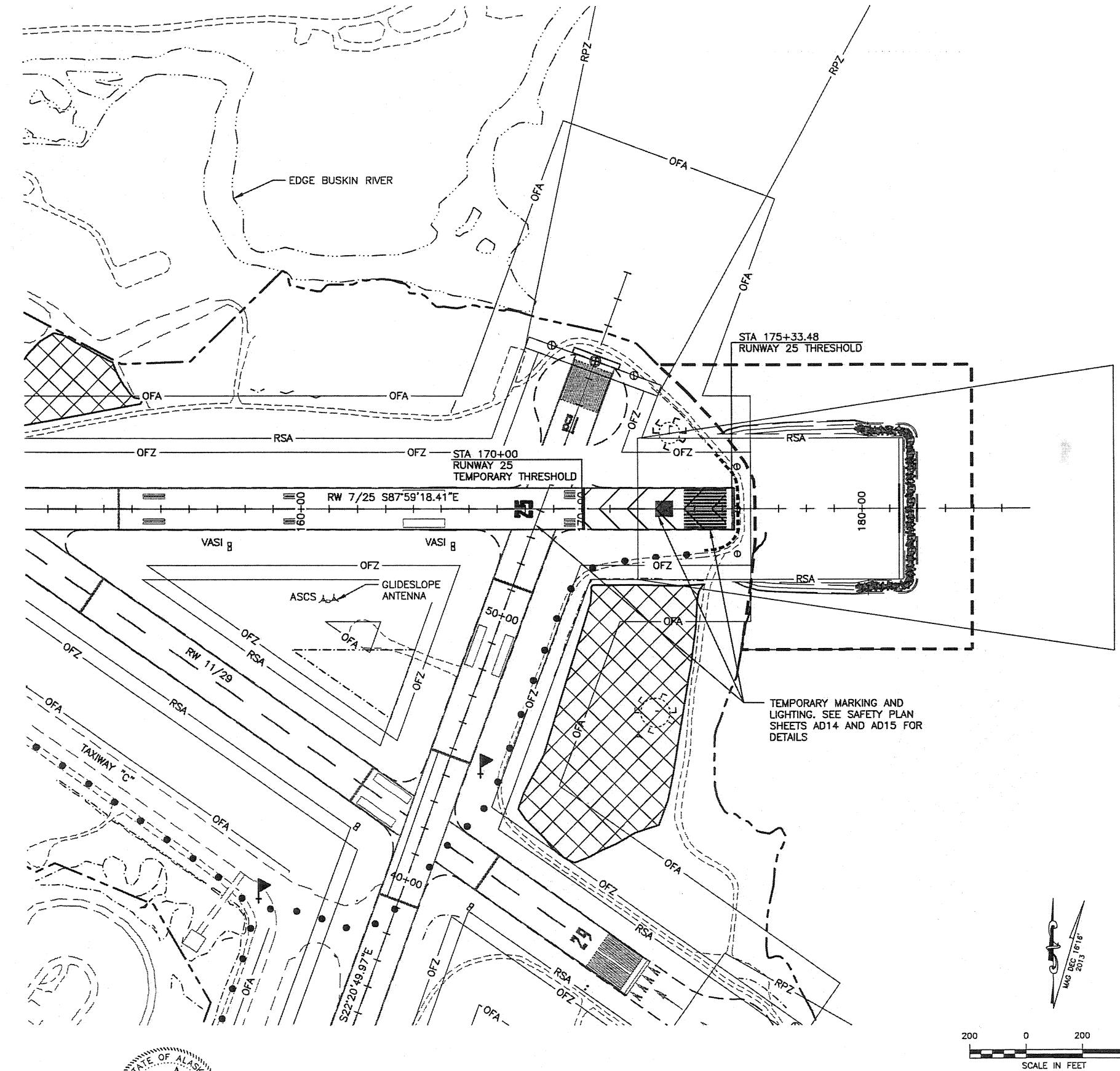
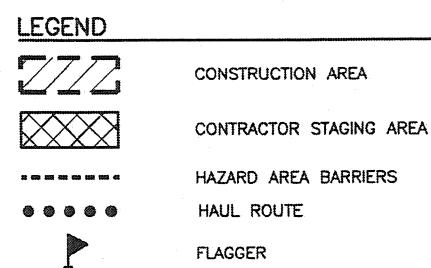
KODIAK AIRPORT
KODIAK, ALASKA
KODIAK AIRPORT RSA EXTENSION, 2014
PROJECT No. 53587
AIP No. 3-02-0158-017-2014
SAFETY PLAN
OVERVIEW

DATE: 3/26/2014
SHEET: AD8 of 15
AS-BUILT SHEET: 0

PHASE 1A SAFETY PLAN NOTES:

1. KEEP ALL PERSONS, EQUIPMENT, AND TEMPORARY STOCKPILES CLEAR OF THE 20:1 APPROACH / DEPARTURE SURFACE OF THE RUNWAY 25 RELOCATED THRESHOLD DURING AIRCRAFT OPERATIONS ON RUNWAY 7/25. THIS INCLUDES STAYING CLEAR OF THE APPROACH / DEPARTURE SURFACES 15 MINUTES PRIOR TO LANDING AND 15 MINUTES AFTER DEPARTURE. NOTE THE 20:1 SURFACE BEGINS 200 FEET PRIOR TO (EAST) THE RELOCATED THRESHOLD AND HAS THE ELEVATION OF THE CENTERLINE OF THE RELOCATED THRESHOLD.
2. THE ELEVATION OF THE 20:1 SURFACE REMAINS THE SAME REGARDLESS OF THE OFFSET FROM THE CENTERLINE, BUT THE HEIGHT ABOVE THE GROUND VARIES WITH THE TERRAIN AS THE OFFSET AND GROUND ELEVATION CHANGES. THE SURFACE ITSELF IS IMAGINARY, AND IS REQUIRED TO BE FREE OF OBSTRUCTIONS TO SUPPORT THE APPROVED APPROACH PROCEDURE FOR RUNWAY 7/25.
3. USE THE DESIGNATED HAUL ROUTES FOR THIS PHASE AS SHOWN ON SAFETY PLAN OVERVIEW SHEET. ALTERNATE HAUL ROUTES MUST BE APPROVED AND DEPICTED IN THE APPROVED SPCD.
4. GLIDESLOPE WILL BE DEACTIVATED DURING PHASE 1A. THERE WILL BE NO RESTRICTIONS WITHIN THE GLIDESLOPE CRITICAL AREA AFTER DEACTIVATION.

Date Revised: 3/26/2014, 8:44 AM
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PREPARED BY: HDR Alaska, Inc. BY DATE REVISION

**STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
CENTRAL REGION**

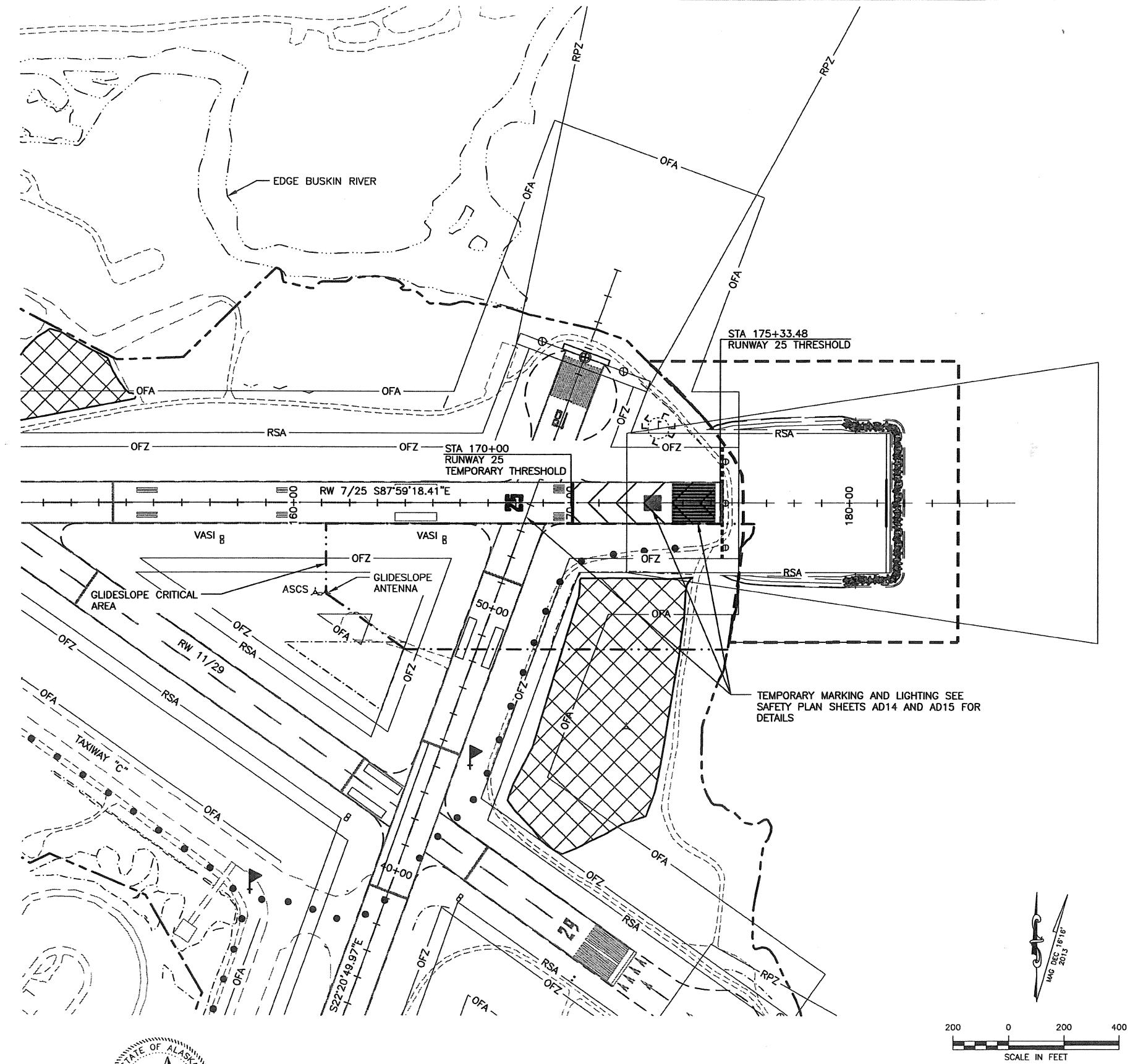
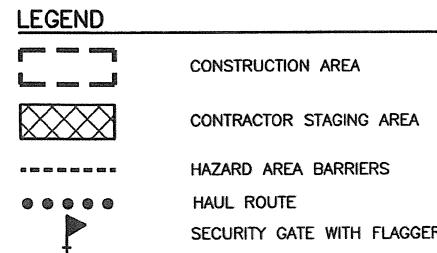
**KODIAK AIRPORT
KODIAK, ALASKA
KODIAK AIRPORT RSA EXTENSION, 2014
PROJECT No. 53587
AIP No. 3-02-0158-017-2014
SAFETY PLAN
PHASE 1A**

**DATE:
3/26/2014
SHEET:
AD9 of 15
AS-BUILT SHEET:
OF**

PHASE 1B SAFETY PLAN NOTES:

- KEEP ALL PERSONS, EQUIPMENT, AND TEMPORARY STOCKPILES CLEAR OF THE 20:1 APPROACH / DEPARTURE SURFACE OF THE RUNWAY 25 RELOCATED THRESHOLD DURING AIRCRAFT OPERATIONS ON RUNWAY 7/25. THIS INCLUDES STAYING CLEAR OF THE APPROACH / DEPARTURE SURFACES 15 MINUTES PRIOR TO LANDING AND 15 MINUTES AFTER DEPARTURE. NOTE THE 20:1 SURFACE BEGINS 200 FEET PRIOR TO (EAST) THE RELOCATED THRESHOLD AND HAS THE ELEVATION OF THE CENTERLINE OF THE RELOCATED THRESHOLD.
- THE ELEVATION OF THE 20:1 SURFACE REMAINS THE SAME REGARDLESS OF THE OFFSET FROM THE CENTERLINE, BUT THE HEIGHT ABOVE THE GROUND VARIES WITH THE TERRAIN AS THE OFFSET AND GROUND ELEVATION CHANGES. THE SURFACE ITSELF IS IMAGINARY, AND IS REQUIRED TO BE FREE OF OBSTRUCTIONS TO SUPPORT THE APPROVED APPROACH PROCEDURE FOR RUNWAY 7/25.
- USE THE DESIGNATED HAUL ROUTES FOR THIS PHASE AS SHOWN. ALTERNATE HAUL ROUTES MUST BE APPROVED AND DEPICTED IN THE APPROVED SPCD.
- GLIDESLOPE WILL BE DEACTIVATED DURING PHASE 1B. THERE WILL BE NO RESTRICTIONS WITHIN THE GLIDESLOPE CRITICAL AREA AFTER DEACTIVATION.

Date Revised: 4/03/2014, 2:21 PM
Layout Name: AD1-EUAS-AD10-SafetyPlan
File Path and Name: C:\Powerpoint\See\093037\000_EUAS-AUG-AD15-SafetyPlan.dwg



PREPARED BY: HDR Alaska, Inc.

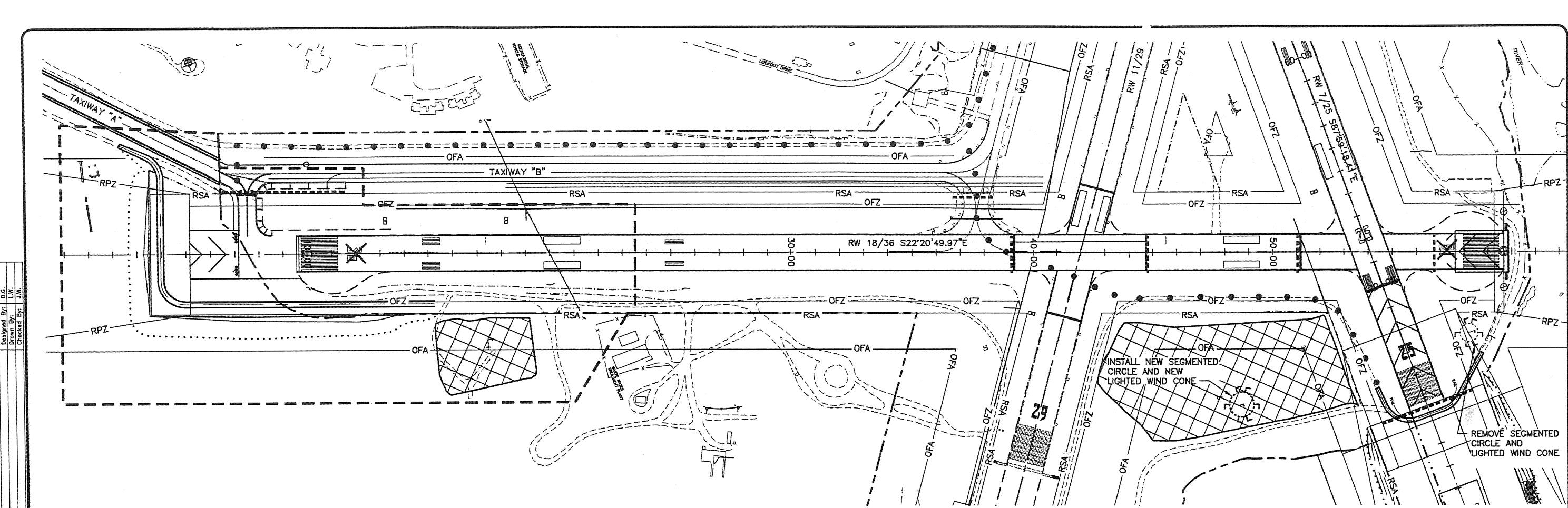
BY DATE

REVISION

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
CENTRAL REGION

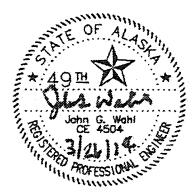
KODIAK AIRPORT
KODIAK, ALASKA
KODIAK AIRPORT RSA EXTENSION, 2014
PROJECT No. 53587
AIP No. 3-02-0158-017-2014
SAFETY PLAN
PHASE 1B

DATE:
3/26/2014
SHEET:
AD10 of 15
AS-BUILT SHEET:
OF



PHASE 2A SAFETY PLAN NOTES:

- Date Revised: 3/26/2014, 10:30 AM
Layout Name: AD0-EMMS-AD11-SitePlan_V001-V002-EMMS-AD9-AD15_SafetyPlan.wkf
File Path and Name: C:\pwkvark\kodiak\dd093071\SitePlan_V001-V002-EMMS-AD9-AD15_SafetyPlan.wkf
- KEEP ALL PERSONS, EQUIPMENT, AND TEMPORARY STOCKPILES CLEAR OF THE 20:1 APPROACH / DEPARTURE SURFACE OF THE RUNWAY 36 THRESHOLD DURING AIRCRAFT OPERATIONS ON RUNWAY 18/36. THIS INCLUDES STAYING CLEAR OF THE APPROACH / DEPARTURE SURFACES 15 MINUTES PRIOR TO LANDING AND 15 MINUTES AFTER DEPARTURE. NOTE THE 20:1 SURFACE BEGINS 200 FEET PRIOR TO (SOUTH OF) THE THRESHOLD AND HAS THE ELEVATION OF THE CENTERLINE OF THE THRESHOLD.
 - THE ELEVATION OF THE 20:1 SURFACE REMAINS THE SAME REGARDLESS OF THE OFFSET FROM THE CENTERLINE, BUT THE HEIGHT ABOVE THE GROUND VARIES WITH THE TERRAIN AS THE OFFSET AND GROUND ELEVATION CHANGES. THE SURFACE ITSELF IS IMAGINARY, AND IS REQUIRED TO BE FREE OF OBSTRUCTIONS TO SUPPORT THE APPROVED APPROACH PROCEDURE FOR RUNWAY 18/36.
 - USE THE DESIGNATED HAUL ROUTES FOR THIS PHASE AS SHOWN. ALTERNATE HAUL ROUTES MUST BE APPROVED AND DEPICTED IN THE APPROVED SPCD.
 - TAXIWAY A AND B CLOSURE AND MOVEMENT OF AIRCRAFT:
 - THE CONTRACTOR SHALL KEEP TAXIWAY A AND B OPEN AND USEABLE FOR THE PASSAGE OF AIRCRAFT AT ALL TIMES WITH THE FOLLOWING RESTRICTIONS:
 - TAXIWAY A WILL REMAIN OPENED FOR THE PASSAGE OF AIRCRAFT, UNDER POWER, FROM 6:30 A.M. TO 6:30 P.M. THE CONTRACTOR MAY CONTINUE TO WORK ON THE TAXIWAY DURING THIS TIME PERIOD, PROVIDED THAT HE NOT DELAY PASSAGE OF AIRCRAFT BY MORE THAN 30 MINUTES FROM NOTIFICATION BY ENGINEER, AIRPORT MANAGER, THE ATCT OR AIR STATION KODIAK OPERATIONS CENTER OF THE ARRIVAL OR DEPARTURE OF THE AIRCRAFT.
 - TAXIWAY A MAY BE CLOSED FROM 6:30 P.M. TO 6:30 A.M. WITH THE RESTRICTION THAT IT MUST BE AVAILABLE FOR MOVEMENT OF AIRCRAFT, UNDER TOW, FOR CRITICAL OPERATIONS AS STATED BELOW.
 - IN THE EVENT OF A CRITICAL OPERATION SUCH AS SEARCH AND RESCUE, DISASTER RELIEF, AIRCRAFT MECHANICAL PROBLEM FOR A MISSION CRITICAL AIRCRAFT, OR OTHER EMERGENCY, REGARDLESS OF THE TIME, THE CONTRACTOR SHALL IMMEDIATELY PROVIDE FOR PASSAGE OF ANY AIRCRAFT, WITH A MAXIMUM 15 MINUTE DELAY FROM TIME OF NOTIFICATION BY THE ENGINEER, AIRPORT MANAGER, ATCT OR OPERATIONS CENTER.
 - RUNWAY 18-36 TEMPORARY CLOSURE:
 - RUNWAY 18-36 MAY BE CLOSED FROM 6:30 P.M. TO 6:30 A.M. DURING THIS PHASE.
 - PLACE ILLUMINATED RUNNING CLOSURE MARKERS OVER RUNWAY DESIGNATION NUMBERS OF EACH RUNWAY.
 - PLACE HAZARDOUS BARRIERS WITH FLAGS AND FLASHERS AS INDICATED ON PLANS.



PREPARED BY: HDR Alaska, Inc.

BY

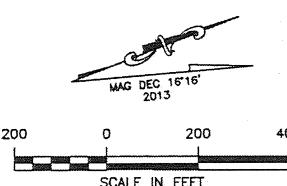
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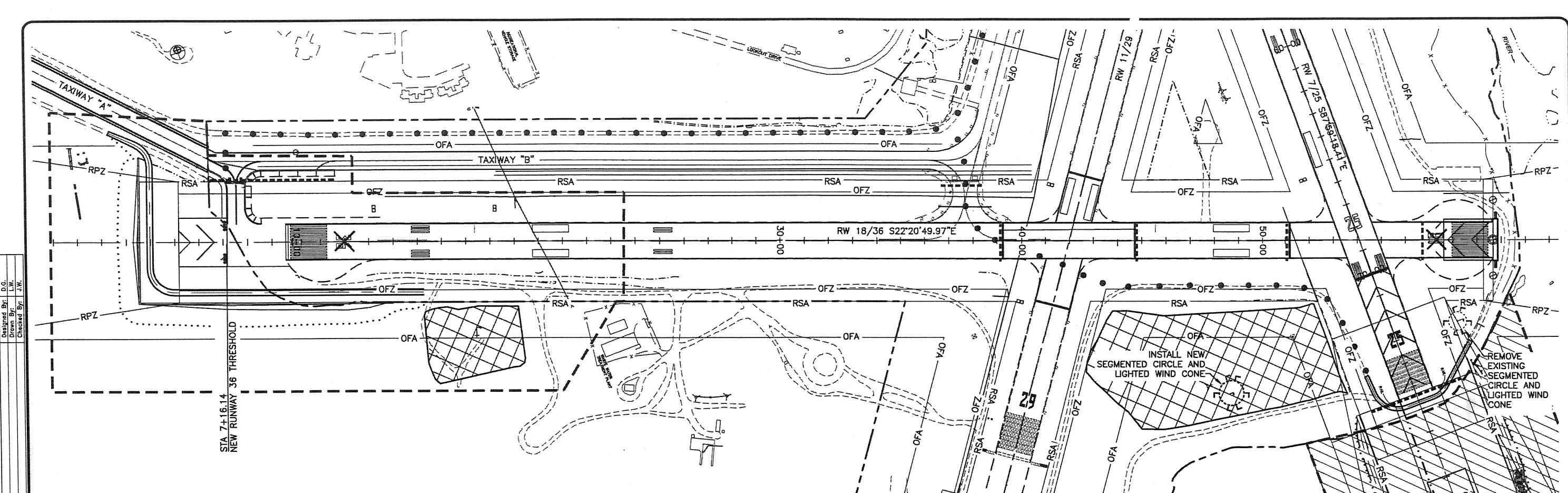
REVISION

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
CENTRAL REGION

KODIAK AIRPORT
KODIAK, ALASKA
KODIAK AIRPORT RSA EXTENSION, 2014
PROJECT No. 53587
AP No. 3-02-0158-017-2014
SAFETY PLAN
PHASE 2A

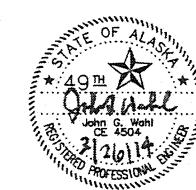
DATE: 3/26/2014
SHEET: AD11 of 15
AS-BUILT SHEET: OF





PHASE 2B SAFETY PLAN NOTES:

1. KEEP ALL PERSONS, EQUIPMENT, AND TEMPORARY STOCKPILES CLEAR OF THE 20:1 APPROACH / DEPARTURE SURFACE OF THE RUNWAY 36 THRESHOLD DURING AIRCRAFT OPERATIONS ON RUNWAY 18/36. THIS INCLUDES STAYING CLEAR OF THE APPROACH / DEPARTURE SURFACES 15 MINUTES PRIOR TO LANDING AND 15 MINUTES AFTER DEPARTURE. NOTE THE 20:1 SURFACE BEGINS 200 FEET PRIOR TO (SOUTH OF) THE THRESHOLD AND HAS THE ELEVATION OF THE CENTERLINE OF THE THRESHOLD.
2. THE ELEVATION OF THE 20:1 SURFACE REMAINS THE SAME REGARDLESS OF THE OFFSET FROM THE CENTERLINE, BUT THE HEIGHT ABOVE THE GROUND VARIES WITH THE TERRAIN AS THE OFFSET AND GROUND ELEVATION CHANGES. THE SURFACE ITSELF IS IMAGINARY, AND IS REQUIRED TO BE FREE OF OBSTRUCTIONS TO SUPPORT THE APPROVED APPROACH PROCEDURE FOR RUNWAY 18/36.
3. USE THE DESIGNATED HAUL ROUTES FOR THIS PHASE AS SHOWN. ALTERNATE HAUL ROUTES MUST BE APPROVED AND DEPICTED IN THE APPROVED SPCD.
4. TAXIWAY A AND B CLOSURE AND MOVEMENT OF AIRCRAFT:
- THE CONTRACTOR SHALL KEEP TAXIWAY A AND B OPEN AND USEABLE FOR THE PASSAGE OF AIRCRAFT AT ALL TIMES WITH THE FOLLOWING RESTRICTIONS:
 - TAXIWAY A WILL REMAIN OPENED FOR THE PASSAGE OF AIRCRAFT, UNDER POWER, FROM 6:30 A.M. TO 6:30 P.M. THE CONTRACTOR MAY CONTINUE TO WORK ON THE TAXIWAY DURING THIS TIME PERIOD, PROVIDED THAT HE NOT DELAY PASSAGE OF AIRCRAFT BY MORE THAN 30 MINUTES FROM NOTIFICATION BY ENGINEER, AIRPORT MANAGER, THE ATCT OR AIR STATION KODIAK OPERATIONS CENTER OF THE ARRIVAL OR DEPARTURE OF THE AIRCRAFT.
 - TAXIWAY A MAY BE CLOSED FROM 6:30 P.M. TO 6:30 A.M. WITH THE RESTRICTION THAT IT MUST BE AVAILABLE FOR MOVEMENT OF AIRCRAFT, UNDER TOW, FOR CRITICAL OPERATIONS AS STATED BELOW.
 - IN THE EVENT OF A CRITICAL OPERATION SUCH AS SEARCH AND RESCUE, DISASTER RELIEF, AIRCRAFT MECHANICAL PROBLEM FOR A MISSION CRITICAL AIRCRAFT, OR OTHER EMERGENCY, REGARDLESS OF THE TIME, THE CONTRACTOR SHALL IMMEDIATELY PROVIDE FOR PASSAGE OF ANY AIRCRAFT, WITH A MAXIMUM 15 MINUTE DELAY FROM TIME OF NOTIFICATION BY THE ENGINEER, AIRPORT MANAGER, ATCT OR OPERATIONS CENTER.
5. RUNWAY 18-36 TEMPORARY CLOSURE:
- RUNWAY 18-36 MAY BE CLOSED FROM 6:30 P.M. TO 6:30 A.M. DURING THIS PHASE.
 - PLACE ILLUMINATED RUNNING CLOSURE MARKERS OVER RUNWAY DESIGNATION NUMBERS OF EACH RUNWAY.
 - PLACE HAZARDOUS BARRIERS WITH FLAGS AND FLASHERS AS INDICATED ON PLANS.



PREPARED BY: HDR Alaska, Inc.

BY

DATE

REVISION

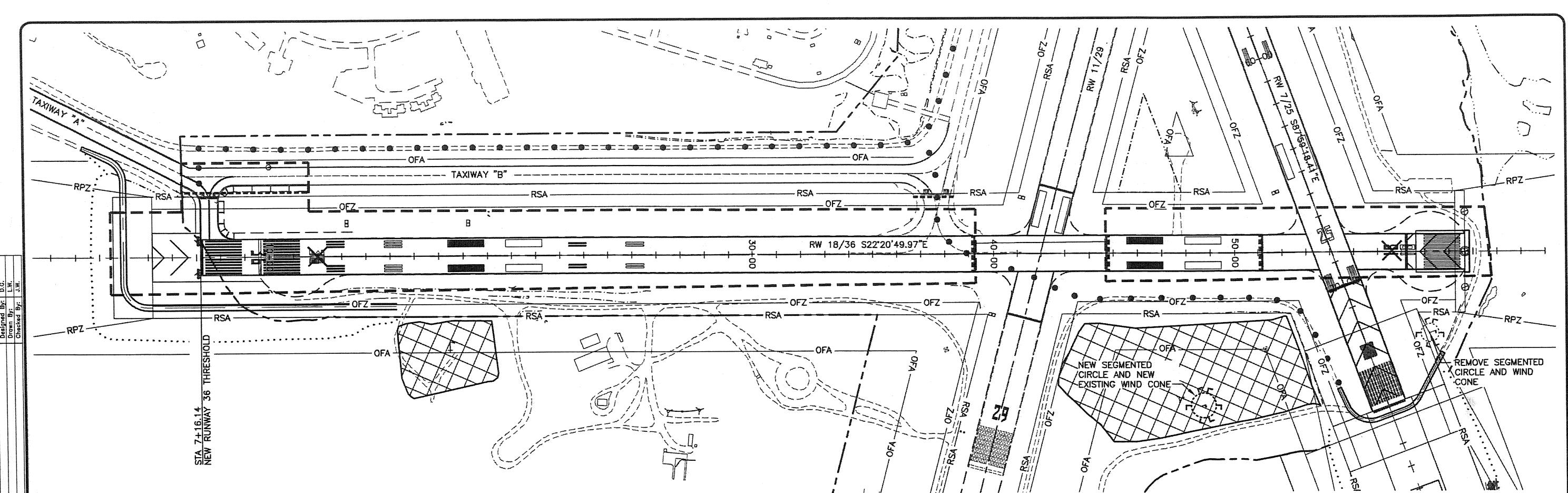
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
CENTRAL REGION

KODIAK AIRPORT
KODIAK, ALASKA
KODIAK AIRPORT RSA EXTENSION, 2014
PROJECT No. 53587
AP No. 3-02-0158-017-2014
SAFETY PLAN
PHASE 2B

DATE:
3/26/2014
SHEET:
AD120f 15
AS-BUILT SHEET:
OF

200 0 200 400
SCALE IN FEET

MAG DEC 16'16'
2013



Date Revised: 3/26/2014, 10:09 AM
Layout Name: ADD-ENAS-AD13-SafetyPlan
File Path and Name: C:\pw\working\kod\03\0371\ADD-ENAS-AD13-SafetyPlan.dwg

PHASE 2C SAFETY PLAN NOTES:

1. USE THE DESIGNATED HAUL ROUTES FOR THIS PHASE AS SHOWN. ALTERNATE HAUL ROUTES MUST BE APPROVED AND DEPICTED IN THE APPROVED SPCD.
2. PROVIDE PICK UP BROOM TRUCK (STREET SWEEPER), OR OTHER EQUIPMENT AS APPROVED FOR CONTROL OF FOD ON ACTIVE SURFACES. CLEAN ACTIVE SURFACES OF FOD IMMEDIATELY UPON DISCOVERY OR NOTIFICATION.
3. TAXWAYS A AND B CLOSURE AND MOVEMENT OF AIRCRAFT:
 - TAXWAY A AND C BETWEEN TAXIWAY B AND RUNWAY 18/36
 - THE FOLLOWING APPLIES TO OPEN SEGMENT OF TAXIWAYS A AND B:
 - THE CONTRACTOR SHALL KEEP TAXIWAY A AND B OPEN AND USEABLE FOR THE PASSAGE OF AIRCRAFT AT ALL TIMES WITH THE FOLLOWING RESTRICTIONS:
 - TAXIWAY A WILL REMAIN OPENED FOR THE PASSAGE OF AIRCRAFT, UNDER POWER, FROM 6:30 A.M. TO 6:30 P.M. THE CONTRACTOR MAY CONTINUE TO WORK ON THE TAXIWAY DURING THIS TIME PERIOD, PROVIDED THAT THE CONTRACTOR DOES NOT DELAY PASSAGE OF AIRCRAFT BY MORE THAN 30 MINUTES FROM NOTIFICATION BY THE ATCT OR AIR STATION KODIAK OPERATIONS CENTER OF THE ARRIVAL OR DEPARTURE OF THE AIRCRAFT.
 - TAXIWAY A MAY BE CLOSED FROM 6:30 P.M. TO 6:30 A.M. WITH THE RESTRICTION THAT THE CONTRACTOR MUST MAINTAIN THE TAXIWAY TO BE AVAILABLE FOR MOVEMENT OF AIRCRAFT, UNDER TOW, FOR CRITICAL OPERATIONS AS STATED BELOW.
 - IN THE EVENT OF A CRITICAL OPERATION SUCH AS SEARCH AND RESCUE, DISASTER RELIEF, AIRCRAFT MECHANICAL PROBLEM FOR A MISSION CRITICAL AIRCRAFT, OR OTHER EMERGENCY, REGARDLESS OF THE TIME, THE CONTRACTOR SHALL IMMEDIATELY PROVIDE FOR PASSAGE OF ANY AIRCRAFT, WITH A MAXIMUM 15 MINUTE DELAY FROM TIME OF NOTIFICATION BY THE ATCT OR OPERATIONS CENTER.
4. RUNWAY CLOSURE
 - RUNWAY 18-36 WILL BE CLOSED DURING THIS PHASE.
 - PLACE ILLUMINATED CLOSURE MARKERS
 - PLACE HAZARDOUS AREA BARRIERS AS SHOWN.



PREPARED BY: HDR Alaska, Inc.

BY

DATE

REVISION

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
CENTRAL REGION

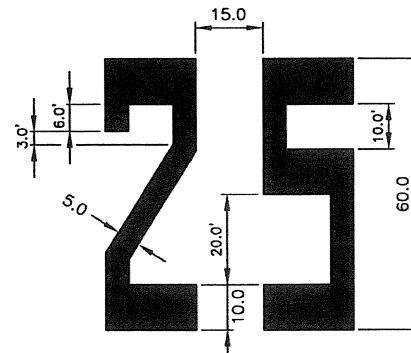
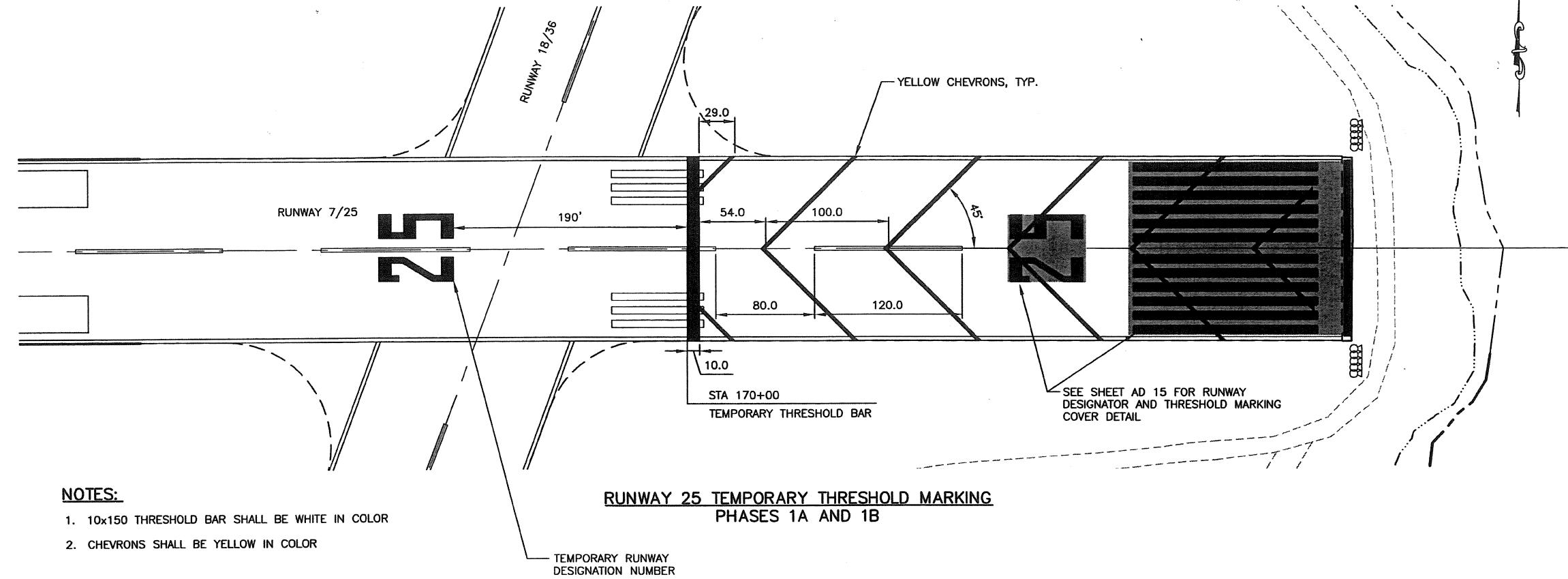
KODIAK AIRPORT
KODIAK, ALASKA
KODIAK AIRPORT RSA EXTENSION, 2014
PROJECT No. 53587
AIP No. 3-02-0158-017-2014
SAFETY PLAN
PHASE 2C

DATE: 3/26/2014
SHEET: AD13of 15
AS-BUILT SHEET: OF

MAG DEC 16'16'
2013
200 0 200 400
SCALE IN FEET

Date Revised: 4/03/2014, 2:59 PM
 Sheet AD 4
 Layout Name: C:\working\arc\0935331\AD0_EMAS_Ad9_Ad15_SchPtn.dwg
 File Path and Name:

Designed By: D.G.
 Drawn By: L.W.
 Checked By: J.W.



RUNWAY DESIGNATION



PREPARED BY: HDR Alaska, Inc.

BY	DATE	REVISION

NOTES:

1. RUNWAY DESIGNATION MARKER SHALL BE WHITE.
2. USE TEMPORARY WATER BASED PAINT FOR RUNWAY DESIGNATION NUMBERS
3. REMOVE PAINT FOLLOWING PHASE 1A AND 1B.
4. TEMPORARY MARKING SHALL BE FABRIC OR PLYWOOD SECURED TO PAVEMENT.

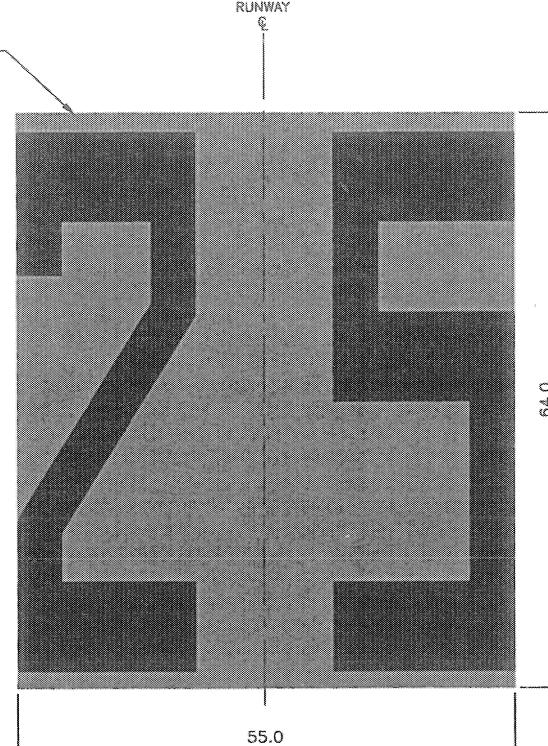
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STATE OF ALASKA
**DEPARTMENT OF TRANSPORTATION
 AND PUBLIC FACILITIES**
 CENTRAL REGION

KODIAK AIRPORT
 KODIAK, ALASKA
 KODIAK AIRPORT RSA EXTENSION, 2014
 PROJECT No. 53587
 AIP No. 3-02-0158-017-2014
 SAFETY PLAN
 TEMPORARY MARKING PLAN

DATE:
 3/26/2014
 SHEET:
AD14 of 15
 AS-BUILT SHEET:
 OF

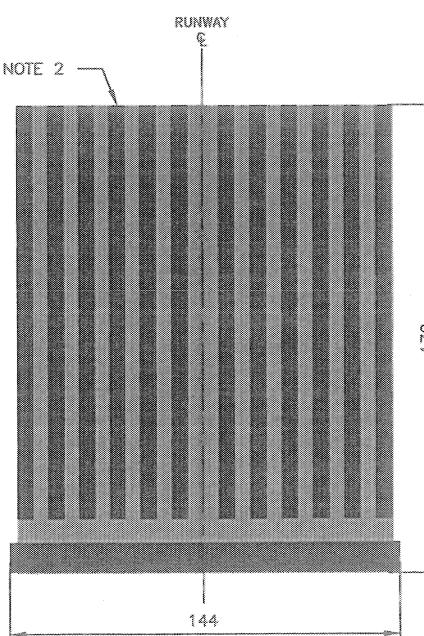
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Signed: AQ 15



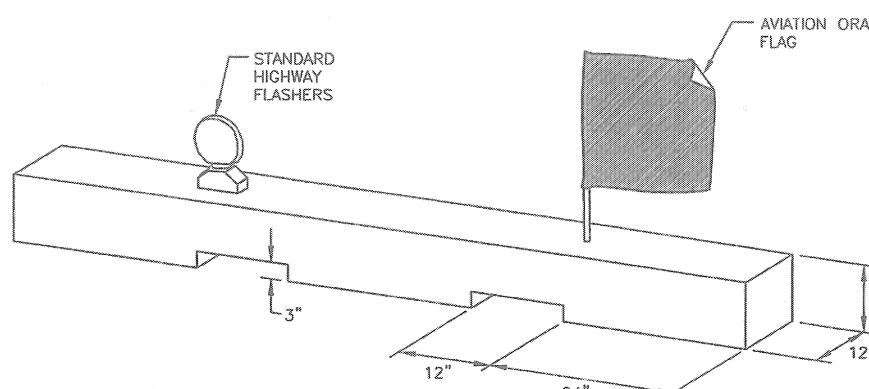
RUNWAY DESIGNATOR COVER

NOTES.

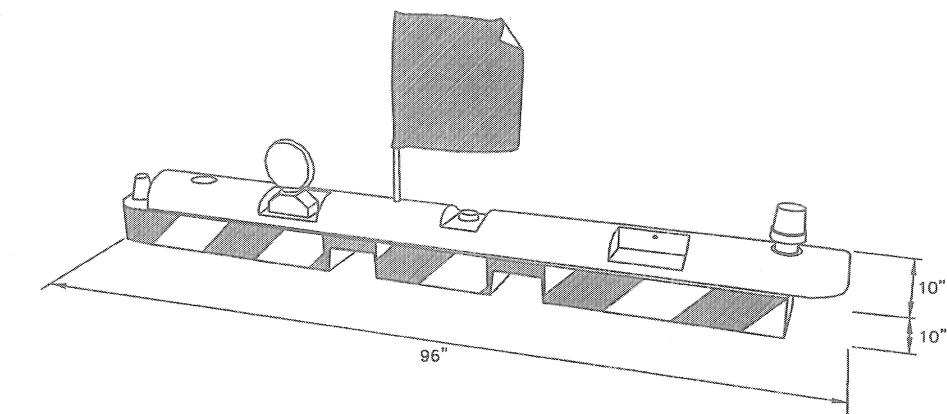
1. THE DIMENSIONS ARE APPROXIMATE. FIELD VERIFY AND ADJUST AS NECESSARY TO COMPLETELY COVER THE RUNWAY DESIGNATOR.
 2. RUNWAY DESIGNATOR AND THRESHOLD MARKING COVERS SHALL BE CONSTRUCTED OF MATERIAL SPECIFIED IN SECTION P-671, AND SHALL BE BLACK IN COLOR.
 3. PLACE AND MAINTAIN RUNWAY DESIGNATOR COVERS AS CONSTRUCTION ALLOWS. COVERS MUST ALSO BE IN PLACE DURING NON WORKING HOURS.



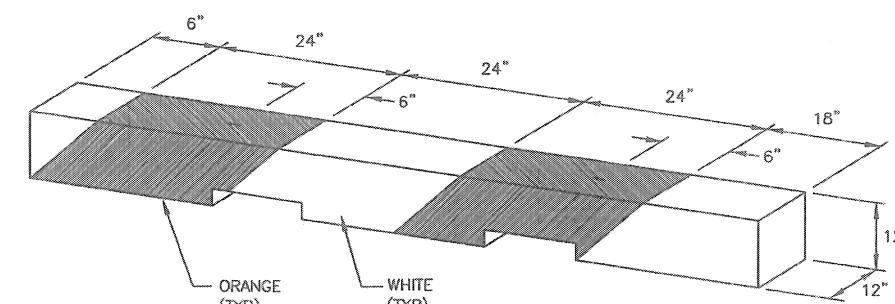
RUNWAY THRESHOLD MARKING COVER ANTS



TIMBER PREPARATION, FLAG AND FLASHER MOUNTING DETAILS



PRE-MANUFACTURED POLYETHYLENE BARRIER ANTS



PAINT DETAIL



NOTE:

1. DRILL AND NOTCH TIMBER BEFORE PAINTING.
 2. REFER TO SECTION 704, HAZARDOUS AREA BARRIER.



PREPARED BY: HDR Alg

Inc.	BY	DATE	REVISER
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**STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
CENTRAL REGION**

**KODIAK AIRPORT
KODIAK, ALASKA**
KODIAK AIRPORT RSA EXTENSION, 2014
PROJECT No. 53587
AIP No. 3-02-0158-017-2014
**SAFETY PLAN
DETAILS**

DATE:
3/26/2014
SHEET:
AD15 OF 15
AS-BUILT SHEET:

A-1

INTERNATIONAL BOUNDARY LINE: Dashed line between Canada and Alaska.

CORPORATED OR CITY LIMITS: Dashed line with diagonal hatching.

TOWNSHIP & RANGE LINE: Dashed line with labels T.17N, R.2W., SM and T.16N, R.2W., SM.

SECTION LINE OR BLOCK LINE, NOT ABUTTING STREET IN SUBDIVISIONS: Dashed line with label Pen #1.

1/4 SECTION LINE: Dashed line with label Pen #1.

1/16 SECTION LINE OR LOT LINE IN SUBDIVISIONS: Dashed line with label Pen #1.

CONTROLLED ACCESS: Dashed line with label Pen #3 C/A.

EASEMENT LINE (PROPOSED): Dashed line with label Pen #1.

EASEMENT LINE (EXISTING): Dashed line with label Pen #0.

SET BACK LINE: Dashed line with label Pen #0.

PROJECT RIGHT-OF-WAY LINE: Dashed line with label Pen #3 R/W.

STAKED CENTERLINE: Dashed line with label Pen #2.

CONSTRUCTION CENTERLINE: Dashed line with label Pen #3.

EXISTING CENTERLINE: Dashed line with label Pen #1.

STATION EQUATIONS: Line with stationing L' 48+94.70 PT = Pen #1 and L' 48+32.05 PDT.

SECTION LINE INTERSECTION: Line with stationing S 23° 30'W and dimensions 193.6', 51+41.3', 615', 51+41.3'.

ROAD CLOSURE: Line with dimension 115' and label Pen #3.

LIMIT OF CUT SLOPE: Dashed line with label Pen #0.

LIMIT OF FILL SLOPE: Dashed line with label Pen #1.

OBLITERATE ROADWAY: Line with label Pen #0.

RECOVERED MONUMENT: Circle with cross-hatch.

RECORD MONUMENT: Circle with cross-hatch.

TOWNSHIP CORNER: Circle with cross-hatch.

SECTION CORNER: Circle with cross-hatch and numbers 6, 5, 7, 8.

1/4 SECTION CORNER: Circle with cross-hatch and numbers 6, 5, 6, 5.

CENTERLINE SURVEY MONUMENT: Circle with cross-hatch.

P. K. NAIL: Triangle symbol.

MISCELLANEOUS FOUND CORNER: Circle with cross-hatch.

MAILBOX: Box with MB.

SATELLITE DISH: Dish symbol.

ALASKA CANADA: Boundary line with Pen #4.

PVC CONDUIT: Dashed line.

RIGID METAL CONDUIT (EXISTING): Dashed line.

RIGID METAL CONDUIT (PROPOSED): Dashed line.

RAILROAD TRACKS--- SINGLE--: Single horizontal line.

MULTIPLE or DOUBLE--: Multiple parallel horizontal lines.

RAILROAD PROTECTIVE DEVICES:

- ADVANCE WARNING: Circle with cross-hatch.
- X-BUCK: X-shaped symbol.
- FLASHING LIGHT: Circle with two dots.
- CANTILEVER: Circle with two dots and a horizontal bar.

EXISTING UTILITY PIPELINES: Direction or flow indicated by bell.

PROPOSED UTILITY PIPELINES:

- OIL: Horizontal line with bell.
- SANITARY SEWER: Horizontal line with bell.
- GAS: Horizontal line with bell.
- WATER: Horizontal line with bell.

EXISTING STORM DRAIN: Line with label SD.

PROPOSED STORM DRAIN STRUCTURE AND PIPE NO'S APPPLICABLE IF SHOWN: Line with labels S-1, SD, S-2, P-1, P-2.

FIRE HYDRANT: Circle with cross-hatch.

METER: Circle with cross-hatch.

VALVE or RISER: Circle with cross-hatch.

POWER POLE: Square symbol.

JOINT USE POWER & TELEPHONE: Square symbol.

TELEPHONE or TELEGRAPH POLE: Circle symbol.

TRANSMISSION TOWERS:

- Steel: Square symbol.
- Wood: Circle symbol.
- Steel: Square symbol.
- Wood: Circle symbol.

POLE ANCHOR: Line with arrow.

STUB POWER or TELEPHONE: Circle with cross-hatch.

TELEPHONE DUCT: Dashed line with label T.

ELECTRIC DUCT: Dashed line with label E.

TELEPHONE MANHOLE: Line with label TMH.

ELECTRIC MANHOLE: Line with label EMH.

LUMINAIRE (MAST ARM MOUNTED): Circle with cross-hatch.

LUMINAIRE (SPAN WIRE MOUNTED): Circle with cross-hatch.

TELEPHONE PEDESTAL: Triangle symbol.

ELECTRICAL TRANSFORMER: Triangle symbol.

BURIED CABLE MARKER: Square symbol.

CATCH BASIN or DROP INLET: Circle with cross-hatch.

MANHOLE: Circle with cross-hatch.

INTERMITTENT DRAINAGE: Dashed line.

INTERCEPTOR DITCH: Dashed line.

TUNNEL: Line with arrow.

EXISTING ROADWAY: Dashed line.

DAM: Circle with arrow.

FORD: Line with arrow.

FERRY: Circle with arrow.

HEAD & WINGWALLS: Line with arrow.

LAKE & RESERVOIRS:

- Lake: Ellipse labeled LAKE.
- Reservoir: Ellipse labeled RES.

RIVERS OR CREEK: Wavy line.

BUILDINGS:

- H=HOUSE
- M=MERCHANT/STORE
- S=SHED
- P=PRIVY
- SS=SERVICE STATION
- G=GARAGE
- B=BARN
- W=Warehouse

FOUNDATIONS:

- Existing: FD.
- Proposed: FD.

WETLANDS: Wavy line.

STUMPS: Tree symbol.

TANK (ABOVE GROUND): Oval symbol.

TANK (BELOW GROUND): U-shaped symbol.

GAS PUMP: Circle symbol.

DELINERATOR--GUIDE MARKER (FACING →): Circle with arrow.

RETAINING WALL: Horizontal line with arrows.

STONE FENCE: Wavy line.

DECIDUOUS TREE: Leafy tree symbol.

CONIFER TREE: Cone tree symbol.

CONIFER TREE SHRUB: Cone shrub symbol.

SIGN (FACING →): Circle with arrow.

RIPRAP: Y-shaped symbols.

BRIDGE: Line with arrows.

PIPE CULVERTS: Line with arrows.

NOISE BARRIER: Line with arrows.

FENCE LINE: Line with arrows.

GUARDRAIL: Line with arrows.

GUIDE POST: Line with arrows.

SIDEWALK: Line with arrows.

CONCRETE CURB: Line with arrows.

CONCRETE CURB GUTTER: Line with arrows.

DRIVeways, APPROACHES: Line with arrows.

EXISTING: Line with arrows.

PROPOSED: Line with arrows.

SIGNAL FACE, VEHICULAR: Line with arrow.

SIGNAL FACE, BACKPLATE: Line with arrow.

SIGNAL FACE, LEFT TURN, BACKPLATE: Line with arrow.

SIGNAL FACE, PEDESTRIAN: Line with arrow.

JUNCTION BOX, TYPE I: Square with dot.

JUNCTION BOX, TYPE II: Square with dot and arrow.

JUNCTION BOX, TYPE III: Square with dot and arrow.

DETECTOR, LOOP: Line with arrow.

DETECTOR, MAGNETOMETER: Line with arrow.

DETECTOR, RADAR: Line with arrow.

DETECTOR, SONIC: Line with arrow.

DETECTOR, OPTICOM: Line with arrow.

DETECTOR, PUSH BUTTON (DIRECTION →): Line with arrow.

SIGNAL CONTROLLER: Line with arrow.

LOAD CENTER: Line with arrow.

SIGNAL POLE: Line with arrow.

SIGNAL POLE w/MASTARM: Line with arrow.

SOLID WHITE STRIPE: Solid black line.

SOLID YELLOW STRIPE: Solid black line.

BROKEN WHITE or YELLOW STRIPE: Dashed black line.

DASH YELLOW STRIPE: Dashed black line.

SOLID YELLOW STRIPE with BROKEN YELLOW STRIPE: Solid black line with dashed black line.

FOR STRIPING PLANS:

- W: Solid black line.
- Y: Solid black line.
- W: Dashed black line.
- Y: Dashed black line.
- Y: Solid black line.

REVISIONS

Date	Description	By

RAILROAD MILE POST: Diamond with 842, R.R. 2580+60, Hwy. 126+38.

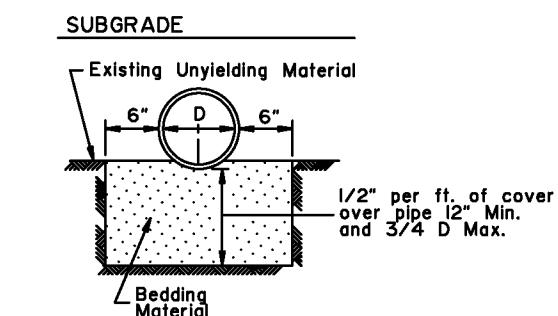
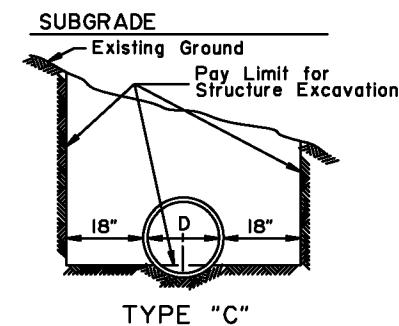
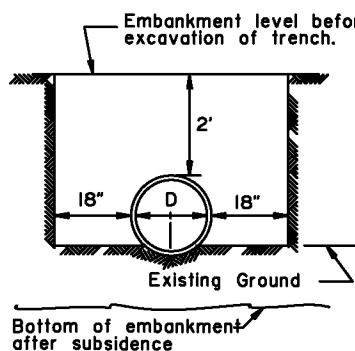
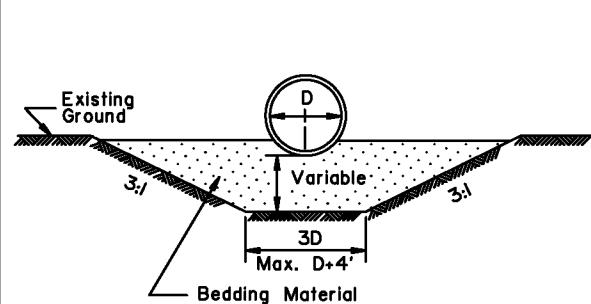
HIGHWAY MILE POST: Rectangle with 143, 121+25.

SYMBOLS

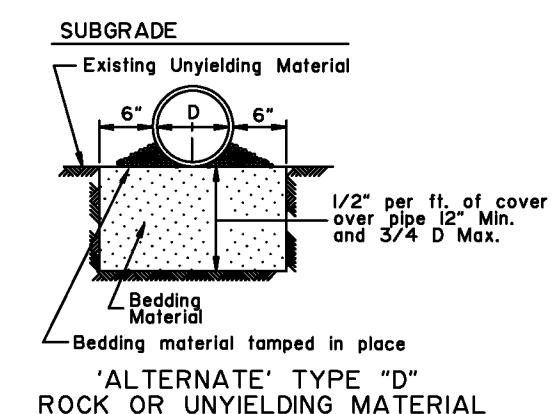
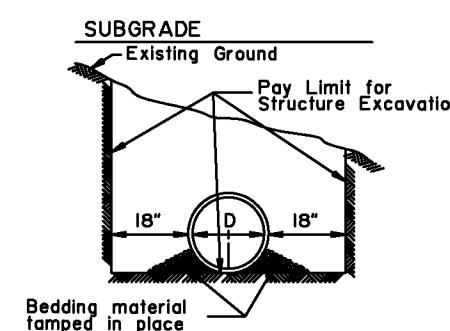
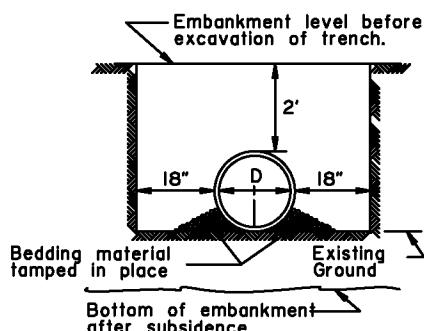
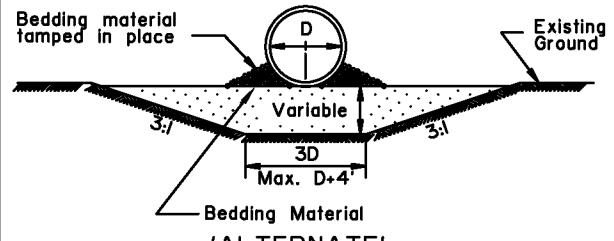
APPROVED: Circular stamp with star and text.

State of Alaska Department of Transportation & Public Facilities

A-1

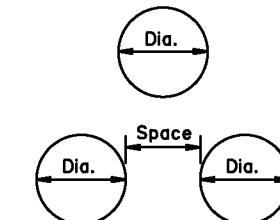


TYPE "D"
ROCK OR UNYIELDING MATERIAL



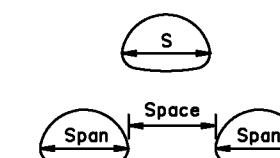
- GENERAL NOTES:**
1. Sidefill shall be placed and compacted with care under haunches of pipe and shall be brought up evenly and simultaneously on both sides of pipe to 1 foot above the top of the full length of the pipe.
 2. Alternate installation methods may only be used when specified or approved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

D = Nominal Pipe Diameter

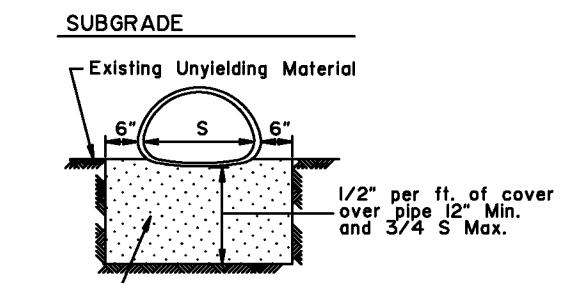
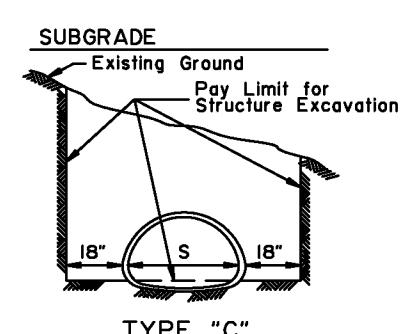
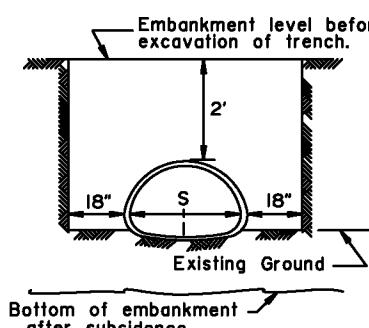
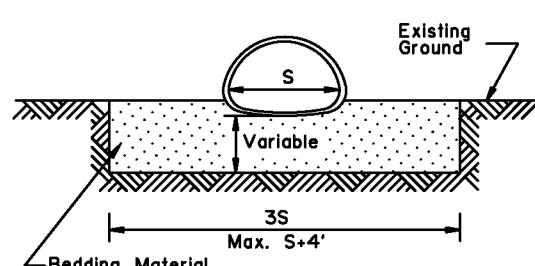


MULTIPLE INSTALLATIONS	
Dia.	Minimum Space Between Pipes
0" - 42"	24"
48" & Over	1/2 Dia. of pipe or 3', whichever is less.

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.



TYPE "D"
ROCK OR UNYIELDING MATERIAL

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

State of Alaska
Department of Transportation
& Public Facilities

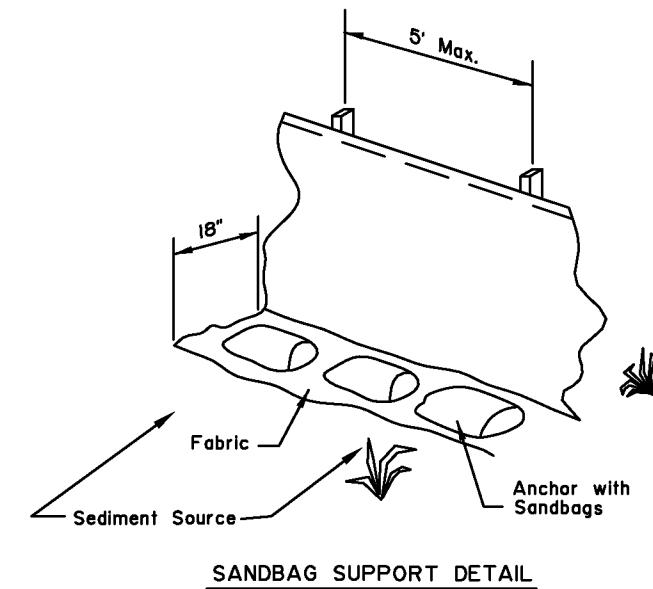
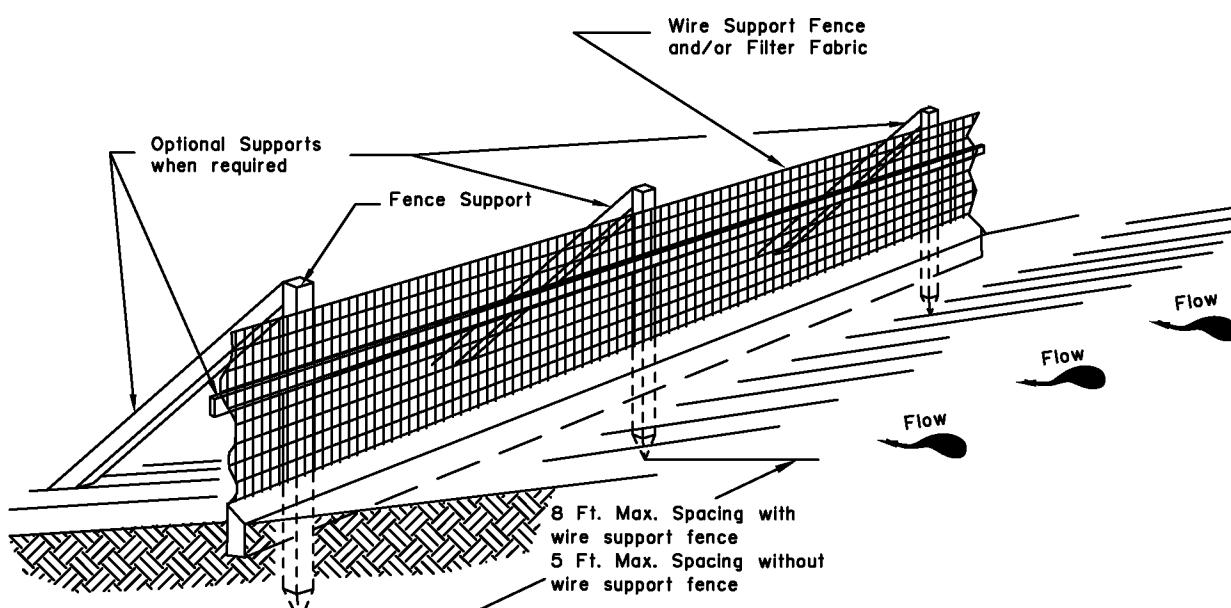
**CULVERT PIPE & ARCH
INSTALLATION DETAILS**



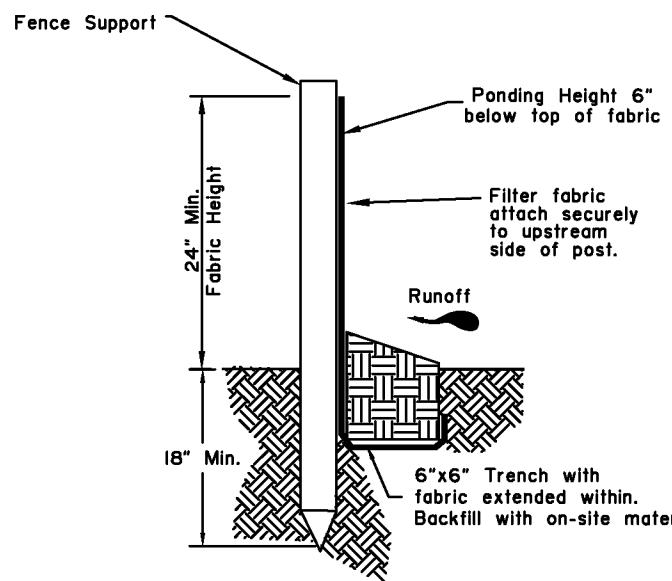
Date 7/15/82

GENERAL NOTES:

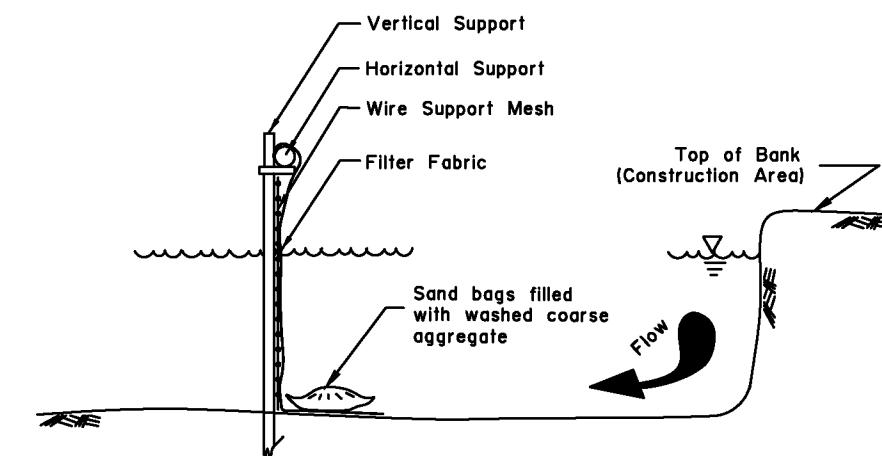
- I. Silt Fence Supports shall be 2-inch PVC pipe reinforced with iron pipe or No. 6 rebar, wood posts, or as approved.
 2. For Water Installations, secure the ends of the silt fence to the stream bank by staking.
 3. Use approved Wire Support Mesh to keep filter fabric in place in water installations.
 4. For Land Installations, fence shall be placed at the toe of embankment or excavation areas, or as directed.
 5. Fence anchored in standing water shall have the bottom anchored with sandbags or equivalent to prevent gaps.
 6. Installation and application shall be in accordance with the practices as outlined in the Erosion and Sediment Control Plan.
 7. Filter fabric shall be overlapped 6 inches at fence supports.
 8. Filter fabric shall be hung taut, not loose or folded.



SANDBAG SUPPORT DETAIL



TRENCH SUPPORT DETAIL

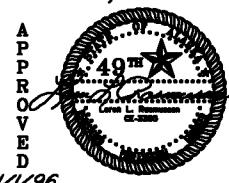


The diagram illustrates a temporary dam structure. At the top, four vertical poles labeled "Fence Supports" are arranged in a trapezoidal pattern. A horizontal line connects the tops of these supports, with a dimension of "5' Max." between the outer supports. Below this, a thick horizontal layer is labeled "Top of Filter Fabric". The base of the dam is reinforced with a layer of "Filter Fabric" and "Sandbags". A vertical dimension line indicates a minimum height of "18\" data-bbox="365 650 385 675" Min." from the bottom to the top of the filter fabric. Another vertical dimension line on the right indicates a minimum height of "4' Min." from the bottom to the top of the filter fabric. A small triangular feature on the left side is labeled "Water Control Valve".

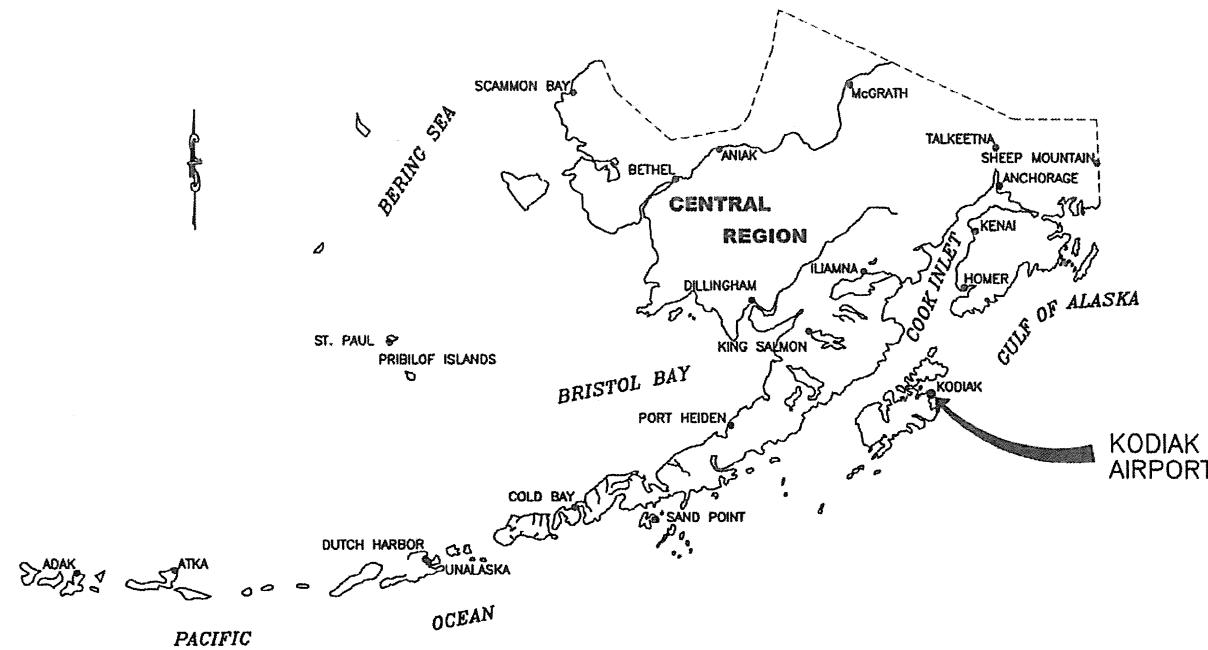
TYPICAL WATER INSTALLATION

**State of Alaska
Department of Transportation
& Public Facilities**

SEDIMENT CONTROL SYSTEM (SILT FENCE)



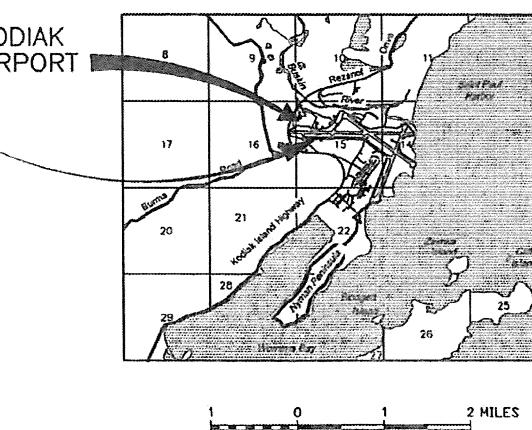
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Layout Name: Sheet 1
File Path and Name: C:\work\alaska\geo\dt112361\A00-DC_1-Cover.dwg



ALASKA CENTRAL REGION LOCATION MAP

NOT TO SCALE

THIS
PROJECT



VICINITY MAP

T 28 S. R 20 W SEC. 14, 15, 16, 22 & 23
SEWARD MERIDIAN
U.S.G.S. KODIAK (C-2, D-2), ALASKA



PREPARED BY: HDR Alaska, Inc.

BY DATE

REVISION

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
CENTRAL REGION

KODIAK AIRPORT
KODIAK, ALASKA
DEVILS CREEK CULVERT REPAIR
PROJECT No. 57474
AIP No. 3-02-0158-01-201
TITLES, SIGNATURES, LOCATION MAP
AND VICINITY MAP

DATE: 3/18/2014
SHEET: 1 OF 9
AS-BUILT SHEET: 01

KODIAK AIRPORT KODIAK, ALASKA DEVILS CREEK CULVERT REPAIR PROJECT No. 57474 AIRPORT IMPROVEMENT PROGRAM No. 3-02-0158-01X-201

CONCUR

JOEL ST. AUBIN, P.E.

DATE 3/27/2014

DIRECTOR OF DESIGN AND CONSTRUCTION

APPROVED

KENNETH M. MORTON, P.E.

DATE 3/26/2014

REGIONAL PRECONSTRUCTION ENGINEER

APPROVED

WOLFGANG E. JUNGE, P.E.

DATE 3/25/14

DESIGN SECTION CHIEF

APPROVED

MORGAN MERRITT, P.E.

DATE 3/24/14

PROJECT MANAGER

LEGEND			ABBREVIATIONS			ABBREVIATIONS		
DESCRIPTION	EXISTING	PROPOSED						
BUILDING			AOA	AIRCRAFT OPERATIONS AREA		RT	RIGHT OFFSET	
CONSTRUCTION LICENSE BOUNDARY			ARFF	AIRPORT RESCUE FIRE FIGHTING		RW	RUNWAY	
CONTROL BOX			ASDA	ACCELERATE STOP DISTANCE AVAILABLE		SD	STORM DRAIN	
CULVERT			ATCT	AIR TRAFFIC CONTROL TOWER		S.F.	SQUARE FEET	
DITCH WITH DRAINAGE FLOW DIRECTION			AWOS	AUTOMATED WEATHER OBSERVING SYSTEM		SPCD	SAFETY PLAN COMPLIANCE DOCUMENT	
EDGE OF PAVEMENT			CABC	CRUSHED AGGREGATE BASE COURSE		SS	SANITARY SEWER	
FENCE			CL	CENTER LINE		STA	STATION	
GEOTEXTILE SEPARATION			1lb./cu.ft.	POUND PER CUBIC FOOT		TODA	TAKE OFF DISTANCE AVAILABLE	
GRADE BREAK			C.S.	CONTINGENT SUM		TORA	TAKE OFF RUN AVAILABLE	
LEASE LOT BOUNDARY			CSPP	CONSTRUCTION SAFETY PHASING PLAN		TW	TAXIWAY	
MEAN HIGH WATER			C.Y.	CUBIC YARD		OFA	OBJECT FREE AREA	
EXISTING GROUND			E	EASTING		OFZ	OBJECT FREE ZONE	
OBJECT FREE AREA			EB	EAST BAY OF BOX CULVERT		OHE	OVERHEAD ELECTRIC	
OBJECT FREE ZONE			ELEV	ELEVATION		UGE	UNDERGROUND ELECTRIC	
PAPI			EMAS	ENGINEERED MATERIAL ARRESTING SYSTEM		UGTel	UNDERGROUND TELECOMMUNICATIONS	
PAVEMENT MARKING			EOP	EDGE OF PAVEMENT		USCG	UNITED STATES COAST GUARD	
PROJECT EARTHWORK AND GRADING LIMITS			FASBC	FOAMED ASPHALT STABILIZED BASE COURSE		VASI	VISUAL APPROACH SLOPE INDICATOR	
PROPERTY BOUNDARY			FOD	FOREIGN OBJECT DEBRIS/ FOREIGN OBJECT DAMAGE		WB	WEST BAY OF BOX CULVERT	
REIL			GB	GRADE BREAK		Wx	WEATHER	
RIPRAP / ARMOR			HDPE	HIGH DENSITY POLYETHYLENE				
ROADWAY			HMA	HOT MIXED ASPHALT				
ROTATING BEACON			LDA	LANDING DISTANCE AVAILABLE				
RUNWAY PROTECTION ZONE			L.F.	LINEAR FOOT				
RUNWAY SAFETY AREA			LS.	LUMP SUM				
RUNWAY THRESHOLD MARKERS			LT	LEFT OFFSET				
SIGN			MHW	MEAN HIGH WATER				
SLOPE VALUE AND DIRECTION			MPH	MILES PER HOUR				
SPOT ELEVATION			N	NORTHING				
TOE OF SLOPE			N.T.S.	NOT TO SCALE				
FILL			RAP	RECYCLED ASPHALT PAVEMENT				
CUT			RPZ	RUNWAY PROTECTION ZONE				
VASI			RSA	RUNWAY SAFETY AREA				
WIND CONE UNLIGHTED								
WIND CONE AND SEGMENTED CIRCLE								
UTILITIES								
SANITARY SEWER LINE WITH MANHOLE								
STORM DRAIN WITH FIELD INLET MANHOLE								
WATER VALVE								
WATER LINE WITH MANHOLE								



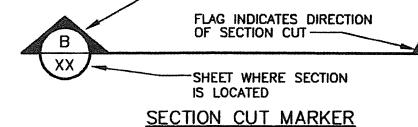
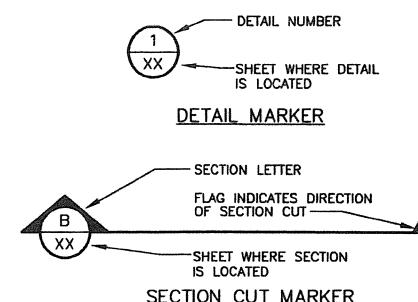
PREPARED BY: HDR Alaska, Inc.

BY	DATE	REVISION

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
CENTRAL REGION

KODIAK AIRPORT
KODIAK, ALASKA
DEVILS CREEK CULVERT REPAIR
PROJECT No. 57474
AIP No. 3-02-0158-01-201
LEGEND AND ABBREVIATIONS

DATE:
3/18/2014
SHEET:
3 OF 9
AS-BUILT SHEET:
OF



ESTIMATED QUANTITIES

Date Revised: 4/09/2014, 9:25 AM
Last Name: G. Swinkins
File Path and Name: C:\swinkins\led\ct11201\A00_DC_4_Quantities.dwg

No.	ITEM	UNIT	QUANTITY
G-100a	MOBILIZATION AND DEMOBILIZATION	L.S.	ALL REQ'D
G-115a	WORKER MEALS AND LODGING, OR PER DIEM	L.S.	ALL REQ'D
G-130a	FIELD OFFICE	L.S.	ALL REQ'D
G-130b	FIELD LABORATORY	L.S.	ALL REQ'D
G-130j	ENGINEERING COMMUNICATIONS	C.S.	ALL REQ'D
G-135a	CONSTRUCTION SURVEYING BY THE CONTRACTOR	L.S.	ALL REQ'D
G-135b	EXTRA THREE PERSON SURVEYING PARTY	HOUR	20
G-200a	CONTRACTOR QUALITY CONTROL PROGRAM	L.S.	ALL REQ'D
G-300a	CPM SCHEDULING	L.S.	ALL REQ'D
G-700a	AIRPORT FLAGGER	C.S.	ALL REQ'D
P-152ae	DITCH LINING	TON	320
P-152i(2)	BORROW (<10% No. 200)	TON	1,355
P-152r	SUBGRADE PREPARATION	S.Y.	1,280
P-157a	EROSION, SEDIMENT, AND POLLUTION CONTROL ADMINISTRATION	L.S.	ALL REQ'D
P-157b	TEMPORARY EROSION, SEDIMENT, AND POLLUTION CONTROL	C.S.	ALL REQ'D
P-157f	WITHHOLDING	C.S.	ALL REQ'D
P-157g	SWPPP MANAGER	L.S.	ALL REQ'D
P-160a	EXCAVATION OF PAVEMENT (AC)	S.Y.	320
P-161b	RECYCLED ASPHALT PAVEMENT	C.Y.	30
P-164a	HYDRODEMOLITION	S.Y.	1,600
P-164b	SCARIFICATION	S.Y.	700
P-165a(2)	REMOVAL OF STRUCTURES (DEVILS CREEK)	L.S.	ALL REQ'D
P-209b	CRUSHED AGGREGATE BASE COURSE	TON	200
P-511a	MICROSILICA MODIFIED CONCRETE	S.Y.	1,600
P-511b	EPOXY-BONDED EPOXY MORTAR	S.Y.	750
P-610g	STEEL REINFORCEMENT	L.F.	7,000

ESTIMATING FACTORS

ITEM DESCRIPTION	ESTIMATING FACTOR
HOT MIX ASPHALT	150 lb./cu.ft.
ASPHALT CEMENT	5.5%
CRUSHED AGGREGATE BASE COURSE	145 lb./cu.ft.
SUBBASE	142 lb./cu.ft.
DITCH LINING	130 lb./cu.ft.



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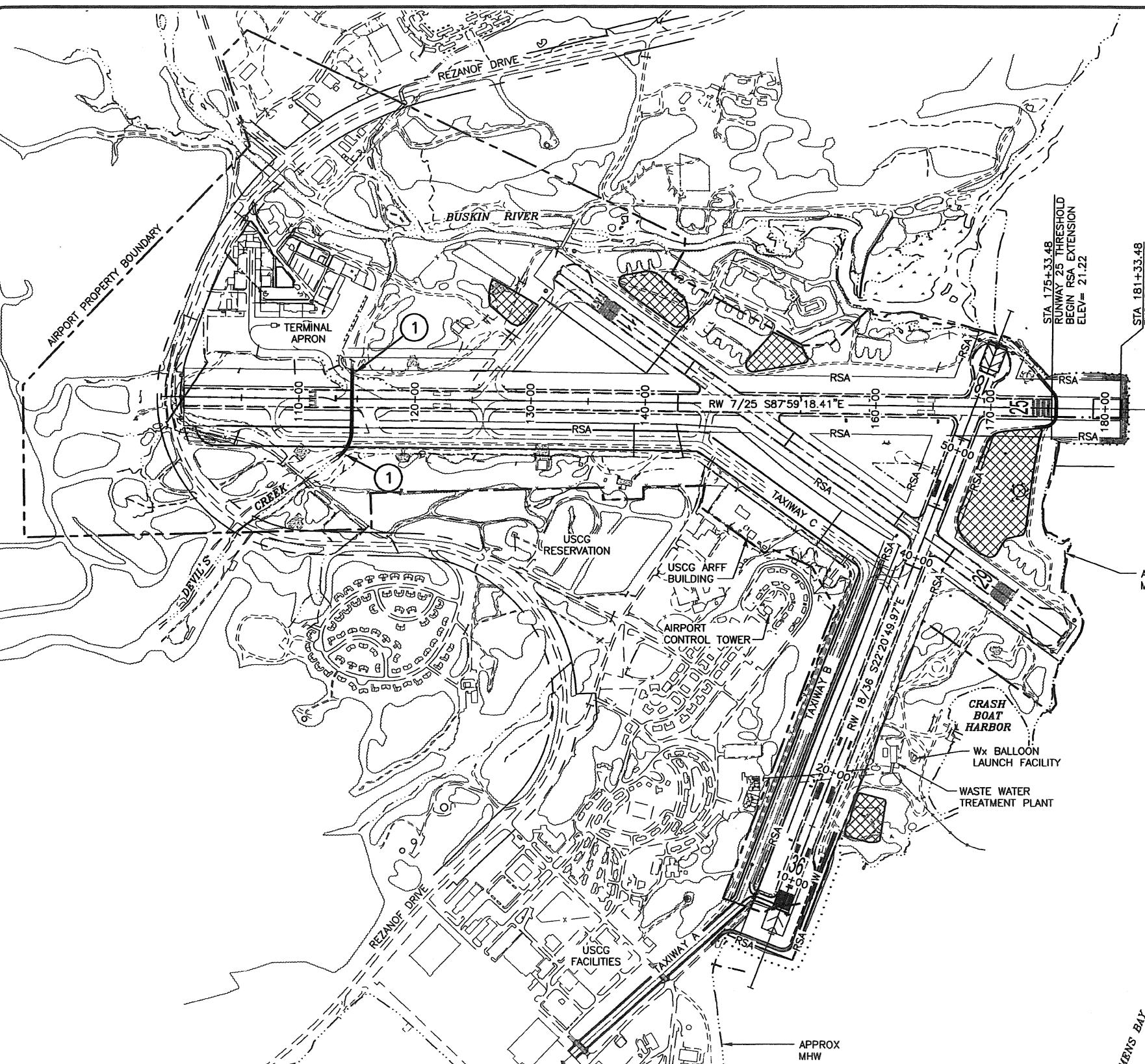
BY	DATE	REVISION

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
CENTRAL REGION

KODIAK AIRPORT
KODIAK, ALASKA
DEVILS CREEK CULVERT REPAIR
PROJECT No. 57474
AIP No. 3-02-0158-01-201
ESTIMATED QUANTITIES
AND ESTIMATING FACTORS

DATE:
3/18/2014
SHEET:
4 OF 9
AS-BUILT SHEET:
OF

Date Revised: 4/09/2014, 10:35 AM
 Layout Name: 400-EMAS_5
 File Path and Name: C:\Program Files\AutoCAD 2013\Projects\Kodiak Airport\Devils Creek Culvert Repair\Project Layout.dwg



PROJECT WORK ITEMS:

1. DEVILS CREEK CULVERT REPAIR.

LEGEND

- 1 PROJECT ITEM IDENTIFIER
- CONTRACTOR STAGING AREAS



PREPARED BY: HDR Alaska, Inc.

BY	DATE	REVISION

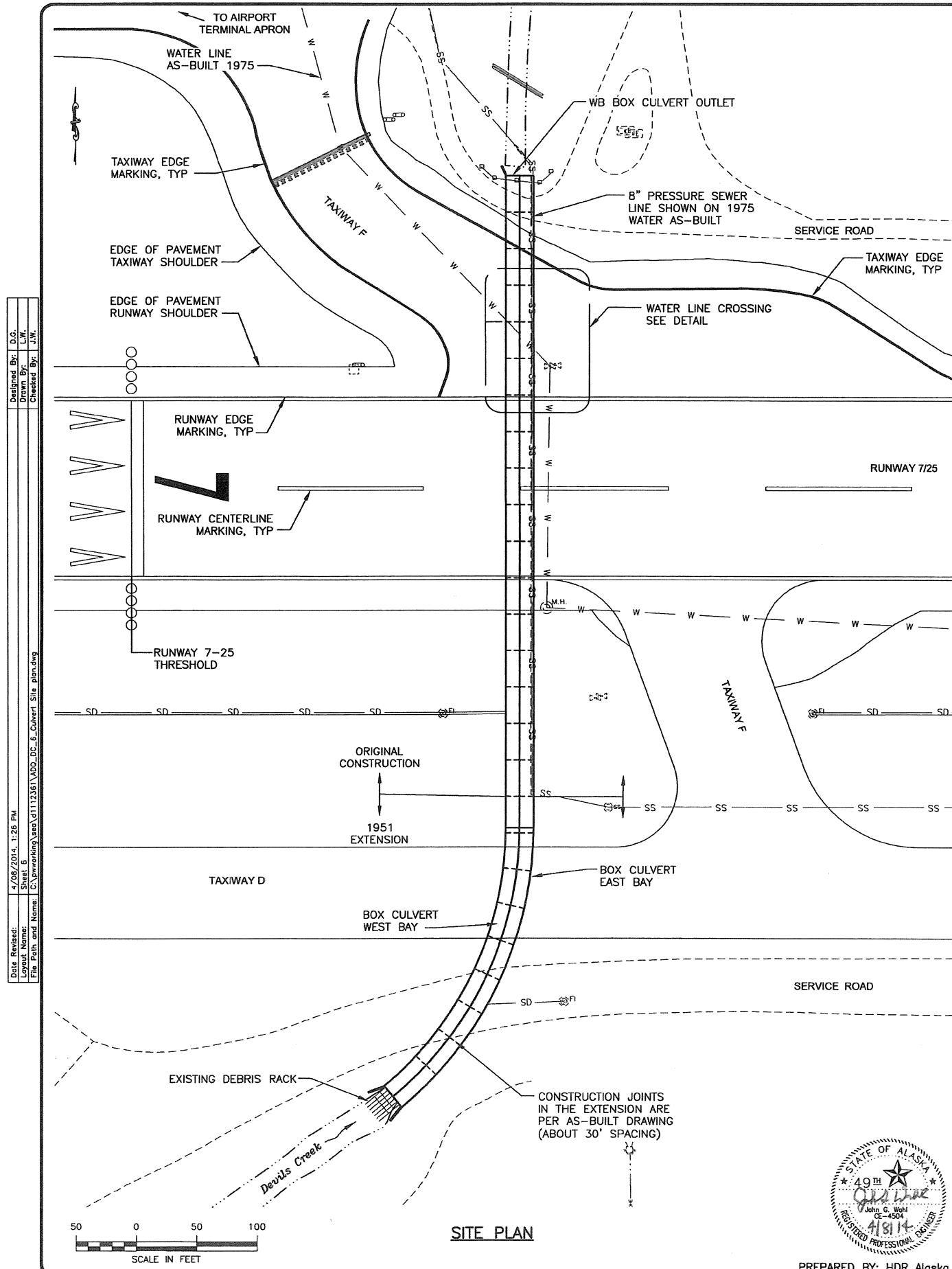
STATE OF ALASKA
**DEPARTMENT OF TRANSPORTATION
 AND PUBLIC FACILITIES**
 CENTRAL REGION

KODIAK AIRPORT
KODIAK, ALASKA
 DEVILS CREEK CULVERT REPAIR
 PROJECT No. 57474
 AIP No. 3-02-0158-01-201
 PROJECT LAYOUT PLAN

DATE: 3/18/2014
 SHEET: 5 OF 9
 AS-BUILT SHEET: OF

Map 20C
 2013

500 0 500 1000
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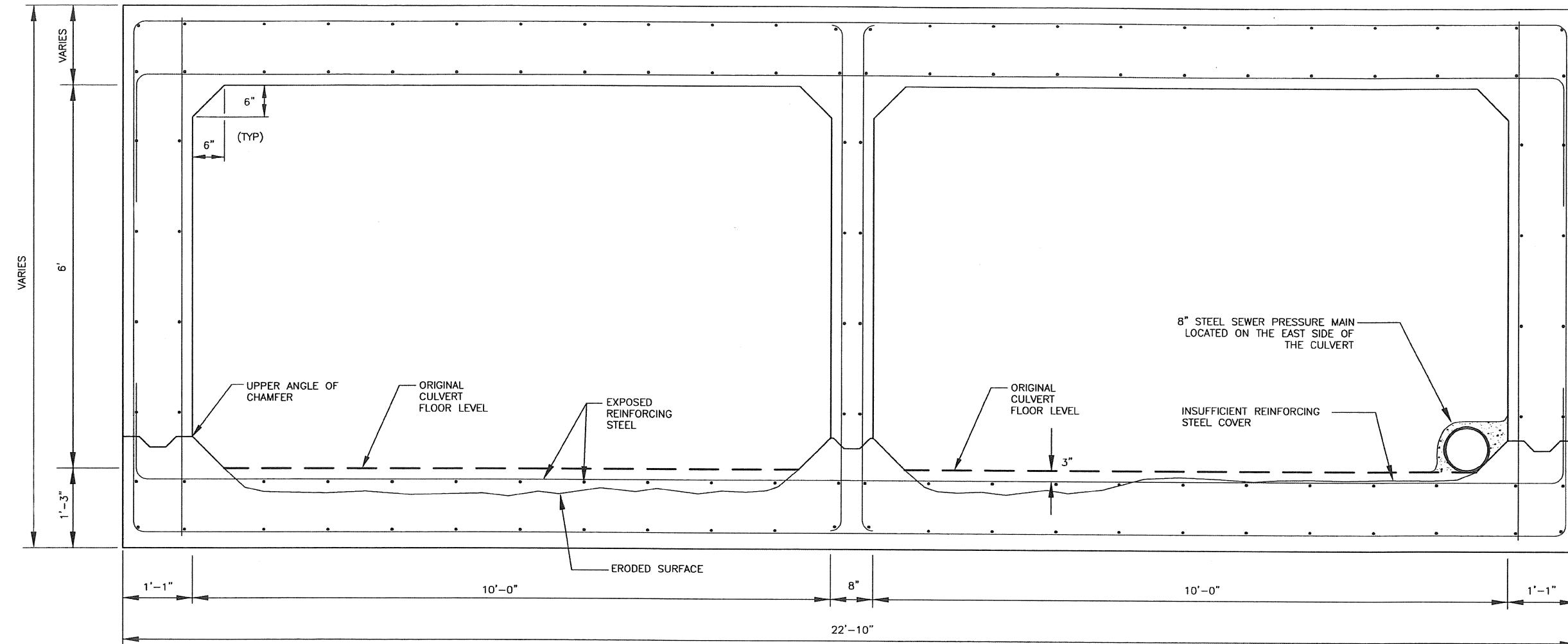
PREPARED BY: HDR Alias

**STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
CENTRAL REGION**

KODIAK AIRPORT
KODIAK, ALASKA
DEVILS CREEK CULVERT REPAIR
PROJECT No. 57474
AIP No. 3-02-0158-01-201-
DEVILS CREEK CULVERT
SITE PLAN

DATE:
3/18/2014
SHEET:
6 OF 9
AS-BUILT SHEET:

Date Revised: 4/09/2014, 1C-12 AM
 Layout Name: Sheet 7
 File Path and Name: C:\Users\jason\Downloads\1117351\ADC-007-E-Culvert Section.dwg



TYPICAL SECTION THRU DEVILS CREEK CULVERT (EXISTING)
N.T.S.

NOTES:

1. TYPICAL SECTION DIMENSION AND REINFORCING STEEL SHOWN ARE BASED ON AS-BUILT DRAWINGS AND FIELD OBSERVATION. DETAILS MAY VARY ALONG THE LENGTH OF THE CULVERT.



PREPARED BY: HDR Alaska, Inc.

BY	DATE	REVISION

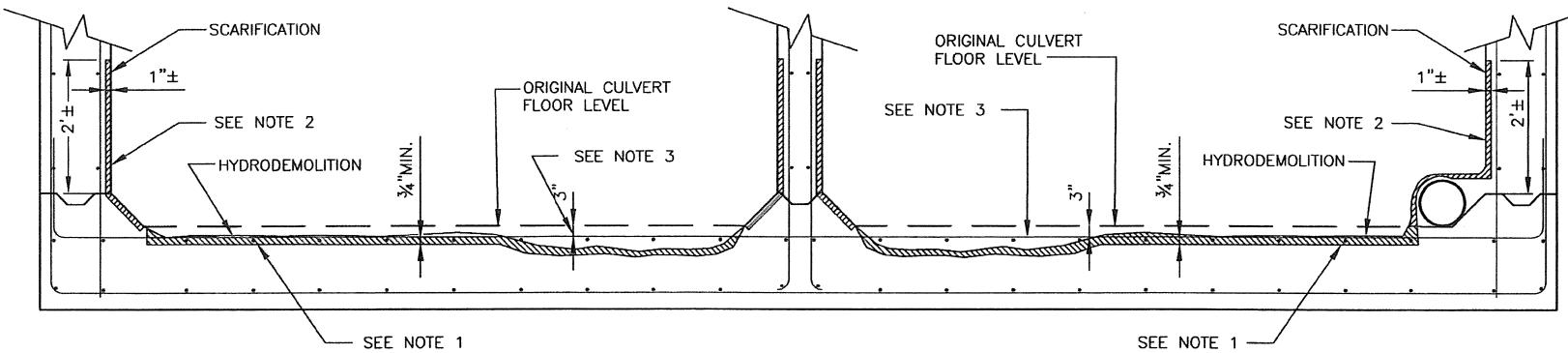
STATE OF ALASKA
**DEPARTMENT OF TRANSPORTATION
 AND PUBLIC FACILITIES**
 CENTRAL REGION

KODIAK AIRPORT
KODIAK, ALASKA
 DEVILS CREEK CULVERT REPAIR
 PROJECT No. 57474
 AIP No. 3-02-0158-01-201-
 DEVILS CREEK CULVERT SECTION

DATE:
 3/18/2014
 SHEET:
 7 OF 9
 AS-BUILT SHEET:
 OF

Date Revised: 4/08/2014, 10:42 AM
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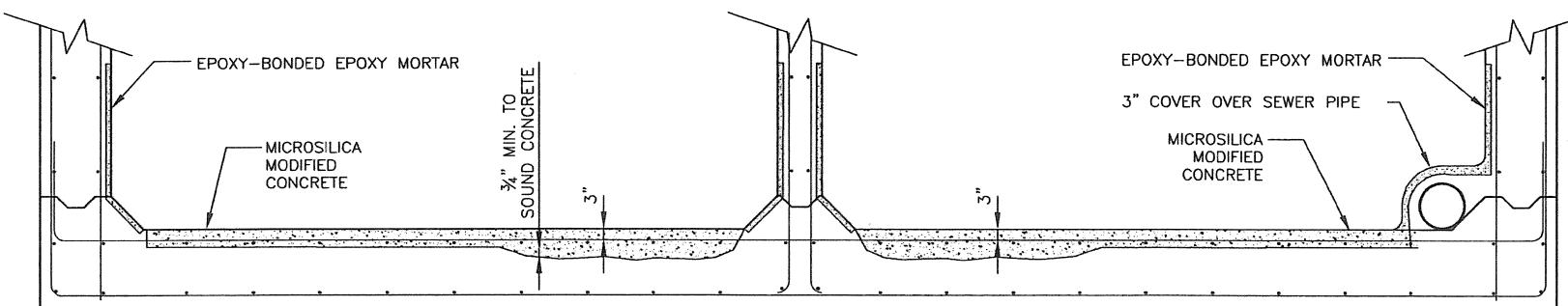
Designed By: D.G.
 Drawn By: E.G.
 Checked By: J.W.



HYDRODEMOLITION DETAIL
N.T.S.

NOTES:

1. REMOVE EXISTING AND DETERIORATED CONCRETE TO A MINIMUM $\frac{3}{4}$ " BELOW TOP LAYER OF TRANSVERSE REINFORCING STEEL OR TO DEPTH OF SOUND CONCRETE, WHICHEVER IS GREATER.
2. SCARIFY AREAS OF DETERIORATED CONCRETE.
3. CLEAN EXPOSED REINFORCING STEEL OF CORROSION, RUST.
4. REPAIR REINFORCING STEEL WHERE RUST, CORROSION OR ABRASION HAS REDUCED REINFORCING STEEL CROSS-SECTIONAL AREA TO LESS THAN 80% OF ORIGINAL REINFORCING STEEL CROSS-SECTIONAL AREA. (SEE ITEM 610)
5. REPAIR OF REINFORCING STEEL SHALL CONSIST OF SECURELY ATTACHING A #4 BAR OF REINFORCING STEEL TO THE DAMAGED BAR. THE BAR WILL RUN THE FULL WIDTH OF THE HYDRO DEMOLITION AREA. IN AREAS OF MULTIPLE DAMAGED BARS, EVERY SECOND BAR SHALL BE REPAIRED.
6. PLACE NEW CONCRETE SO SURFACE IS 3" ABOVE TOP OF TRANSVERSE REINFORCING STEEL.



CULVERT REPAIR DETAIL
N.T.S.

LEGEND

	HYDRO DEMOLITION
	SCARIFICATION
	MICROSILICA MODIFIED CONCRETE
	EPOXY-BONDED EPOXY MORTAR



PREPARED BY: HDR Alaska, Inc.

BY	DATE	REVISION

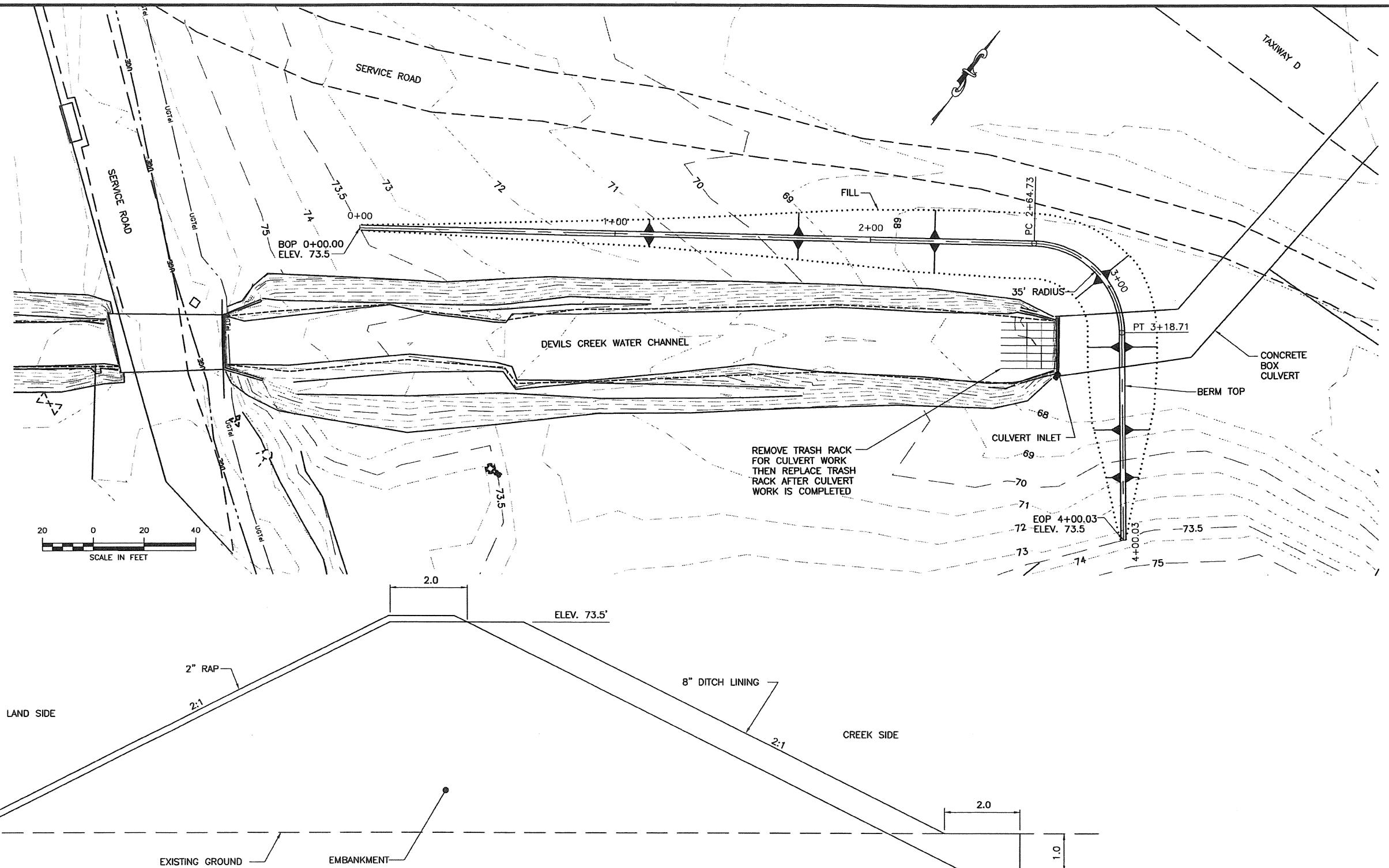
STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 AND PUBLIC FACILITIES
 CENTRAL REGION

KODIAK AIRPORT
 KODIAK, ALASKA
 DEVILS CREEK CULVERT REPAIR
 PROJECT No. 57474
 AIP No. 3-02-0158-01-201
 DEVILS CREEK CULVERT REPAIR DETAILS

DATE:
 3/18/2014
 SHEET:
 8 OF 9
 AS-BUILT SHEET:
 CP

Date Revised: 4/08/2014, 10:44 AM
 Layout Name: Sheet 11
 File Path and Name: C:\working\ste\dt112351\A00_DC-11_Berming.dwg

Designed By: D.G.
 Drawn By: L.W.
 Checked By: J.W.



COORDINATE TABLE FOR BERM LAYOUT

	BOP	PC	PT	EOP
	0+00	2+64	3+18	4+00
NORTHING	134,070,034	134,220,9645	134,212,9737	134,147,5051
EASTING	28,911,7704	29,129,2551	29,177,3859	29,225,6311
RW STATION	111+06.9	--	--	114+19.7
RW OFFSET	626.2' RT	--	--	544.7' RT

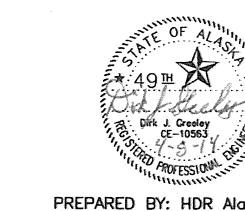
BERM TYPICAL SECTION

N.T.S.

COMPACTIION REQUIREMENTS	
EMBANKMENT	95%

NOTES:

1. RW REFERS TO RUNWAY 25
2. SEE RUNWAY SAFETY AREA PLANSET FOR SURVEY CONTROL SHEET.



PREPARED BY: HDR Alaska, Inc.

BY	DATE	REVISION

STATE OF ALASKA
**DEPARTMENT OF TRANSPORTATION
 AND PUBLIC FACILITIES**
 CENTRAL REGION

KODIAK AIRPORT
KODIAK, ALASKA
 DEVILS CREEK CULVERT REPAIR
 PROJECT No. 57474
 AIP No. 3-02-0158-01-201
 DEVILS CREEK CULVERT
 BERM

DATE:
 3/18/2014
 SHEET:
9 OF 9
 AS-BUILT SHEET:
OF

PHASE 3 PHASING PLAN NOTES:

- CONSTRUCTION SUMMARY:**
1. WORK ASSOCIATED WITH THIS PHASE INCLUDES, BUT IS NOT LIMITED TO, THE FOLLOWING:
 - REPAIR INTERIOR OF PCC BOX CULVERT
 - CONSTRUCT A DIKE AROUND THE ENTRANCE TO THE BOX CULVERT TO RAISE HYDRAULIC HEAD OF THE CREEK TO INCREASE FLOW THROUGH THE CULVERT
 2. **AREAS CLOSED TO AIRCRAFT OPERATIONS**
RUNWAY 7-25 AND TAXIWAYS D AND F SHALL REMAIN OPEN AT ALL TIMES.
 3. **DURATION OF CLOSURES**
RUNWAY 7-25 AND TAXIWAYS D AND F SHALL REMAIN OPEN AT ALL TIMES.
 4. **Taxi Routes**
TAXI ROUTES WILL NOT BE CHANGED.
- WHILE CONSTRUCTION ACTIVITY IS UNDER WAY, LARGE AIRCRAFT (GREATER THAN 12,500 POUNDS) MAY NOT MAKE A RIGHT TURN WHILE TAXIING FROM THE COMMERCIAL APRON VIA TAXIWAY F ONTO RUNWAY 7-25 FOR BACKTAXI TO RUNWAY 7 TO AVOID JET/PROP BLAST TO THE CONSTRUCTION AREA AT DEVILS CREEK. TAXIWAY F AND TAXIWAY D SHALL BE USED.
5. **ARFF ACCESS ROUTES**
ARFF ACCESS ROUTES WILL NOT BE AFFECTED DURING THIS PHASE.
 6. **CONSTRUCTION ACCESS AND HAUL ROUTES**
ACCESS AND HAUL ROUTES SHALL BE GENERALLY AS FOLLOWS:

THE PRIMARY ACCESS ROUTE TO THE SOUTH END OF THE DEVILS CREEK CULVERT WILL BE FROM REZANOF DRIVE WEST, PROCEED VIA 8TH STREET AND G AVENUE TO THE SECURITY GATE ADJACENT TO THE USCG ARFF FACILITY. ENTER THE AOA AND PROCEED WEST ALONG SERVICE ROAD SOUTH OF TAXIWAY D AND ENTER PROJECT AREA. ALTERNATE ROUTE IS THROUGH THE DEVILS CREEK GATE USING FLAGGERS AT ACCESS CONTROLS SIMILAR TO THE RSA EXTENSION PROJECT.

THE ACCESS AND HAUL ROUTE TO THE NORTH END OF THE DEVILS CREEK CULVERT WILL BE FROM REZANOF DRIVE WEST, PROCEED FROM THE TERMINAL ENTRANCE ROAD TO THE DEVILS CREEK SERVICE ROAD. ENTER THE AOA THROUGH THE GATE AT DEVILS CREEK AND THEN PROCEED TO THE PROJECT AREA ON THE RIGHT.
 7. **IMPACTS ON NAVADS**
NO NAVADS WILL BE AFFECTED BY THIS PHASE.
 8. **LIGHTING AND MARKING CHANGES**
THERE WILL BE NO LIGHTING OR MARKING CHANGES DURING THIS PHASE.
 9. **AVAILABLE RUNWAY LENGTH**
RUNWAY LENGTHS INCLUDED IN PHASES 1A AND 1B WILL APPLY.
 10. **COORDINATION WITH OTHER PROJECTS**
THIS PHASE IS BEING PERFORMED UNDER A CONSTRUCTION CONTRACT INCLUDING THE KODIAK AIRPORT RSA EXTENSION, PROJECT NO. 53587, AND KODIAK AIRPORT DEVILS CREEK CULVERT REPAIR, PROJECT NO. 57474. THE CONSTRUCTION SAFETY AND PHASING PLAN INCLUDES BOTH PROJECTS AND PROVISIONS FOR THE PLAN ARE APPLICABLE TO BOTH PROJECTS.

Date Revised: 1/09/2014, 3:31 PM
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LEGEND

- CONSTRUCTION AREA
- CONTRACTOR STAGING AREA
- HAZARD AREA BARRIERS
- HAUL ROUTE



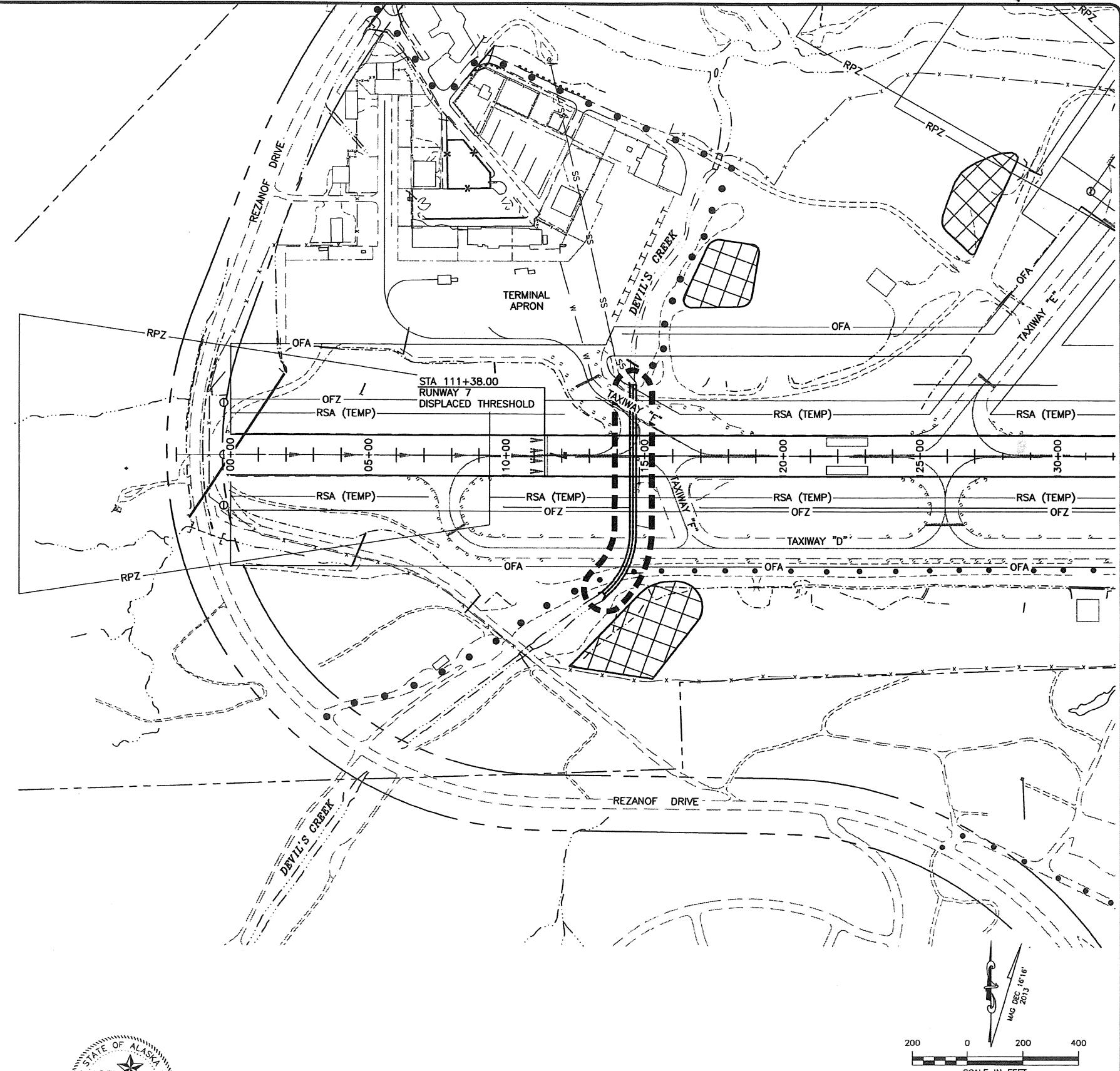
PREPARED BY: HDR Alaska, Inc.

BY	DATE	REVISION

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
CENTRAL REGION

KODIAK AIRPORT
KODIAK, ALASKA
KODIAK AIRPORT RSA EXTENSION, 2014
PROJECT No. 53587
AIP No. 3-02-0158-017-2014
PHASING PLAN
PHASE 3

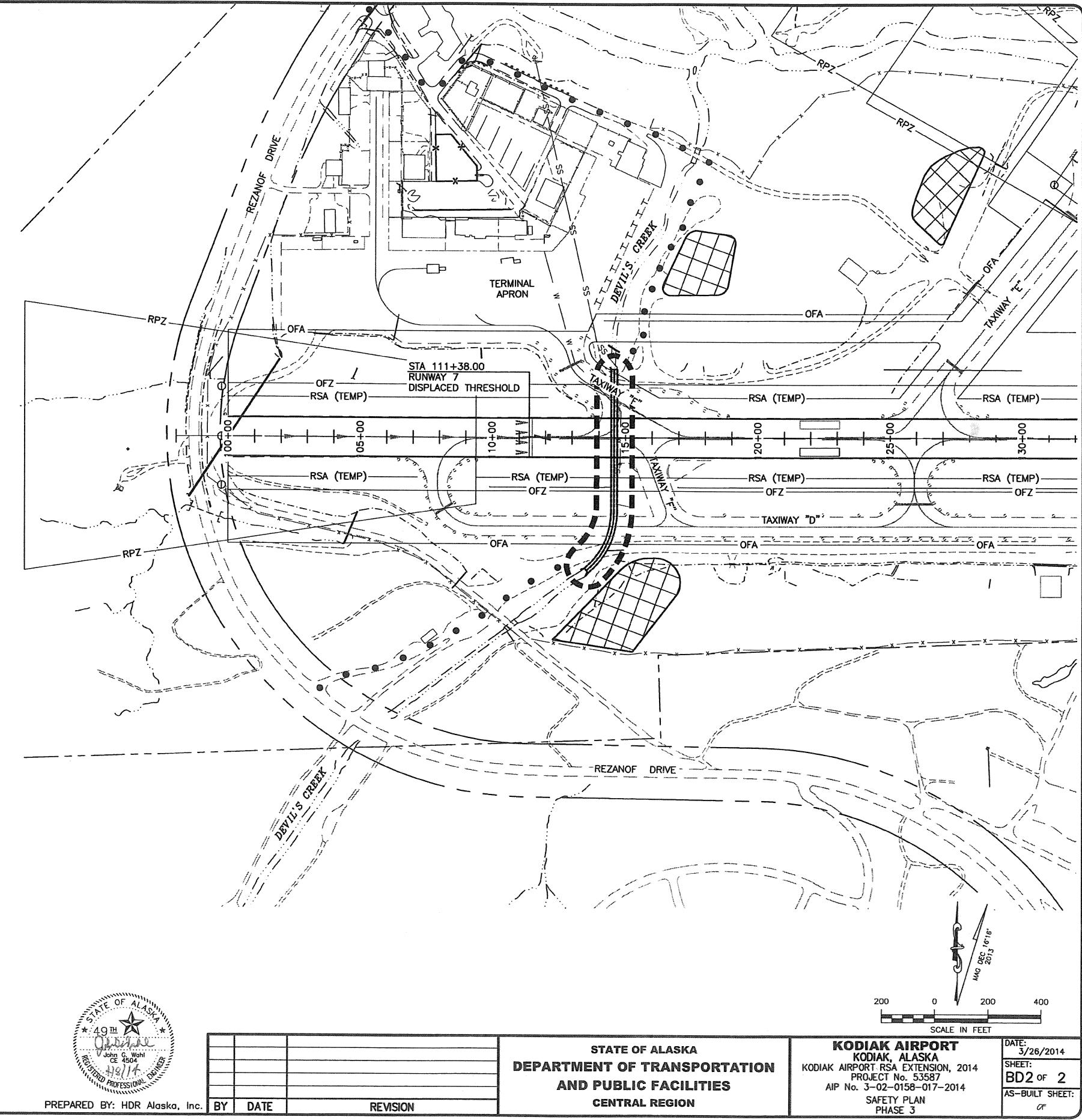
DATE: 3/26/2014
SHEET: BD1 OF 2
AS-BUILT SHEET: OF



PHASE 3 SAFETY PLAN NOTES:

- KEEP ALL WORKERS, EQUIPMENT AND MATERIALS OUTSIDE OF THE ACTIVE RUNWAY SAFETY AREA, NAVAID CRITICAL AREAS, AND APPROACH SURFACES DURING AIRCRAFT OPERATIONS, AND ONLY ENTER THESE AREAS AS REQUIRED AND AS APPROVED.
- KEEP ALL WORKERS, EQUIPMENT, AND MATERIALS OUTSIDE OF THE TAXIWAY SAFETY AREAS AND TAXIWAY OBJECT FREE AREAS WHILE TAXIWAYS ARE OPEN TO AIRCRAFT. ALL TAXIING AIRCRAFT HAVE THE RIGHT OF WAY.
- USE THE DESIGNATED HAUL ROUTES FOR THIS PHASE AS SHOWN. ALTERNATE HAUL ROUTES MUST BE APPROVED AND DEPICTED IN THE APPROVED SPCD.
- PROVIDE AN AIRPORT FLAGGER IF HAULING ACROSS AN ACTIVE TAXIWAY AND/OR ACTIVE RUNWAY AND IS APPROVED AND INCLUDED IN THE APPROVED SPCD.
- PROVIDE A GATE GUARD IF ANY GATE REMAINS OPEN DURING CONSTRUCTION ACTIVITIES.
- TEMPORARY CLOSURE OF ANY RUNWAY OR TAXIWAY MUST BE DEPICTED IN THE APPROVED SPCD. COORDINATE WITH THE AIRPORT MANAGER, FAA, AIRPORT TENANTS AND OPERATORS, THROUGH THE ENGINEER AT LEAST 45 DAYS IN ADVANCE OF ACTUAL CLOSURES. REFER TO THE SCPP FOR ALLOWED CLOSURE DURATIONS.
- HAZARDOUS AREA BARRIERS ARE SHOWN AT APPROXIMATE LOCATIONS. ADJUSTMENTS OR ADDITIONAL LOCATIONS MAY BE REQUIRED. RELOCATE BARRIERS AS DIRECTED BY THE ENGINEER.
- PROVIDE PICK UP BROOM TRUCK (STREET SWEEPER), OR OTHER EQUIPMENT AS APPROVED FOR CONTROL OF FOD ON ACTIVE SURFACES. CLEAN ACTIVE SURFACES OF FOD IMMEDIATELY UPON DISCOVERY OR NOTIFICATION. CLEAN AFFECTED RUNWAY AND TAXIWAY SURFACES PRIOR TO REOPENING.
- ARFF MUST HAVE ACCESS TO ENTIRE AIRPORT DURING EMERGENCIES. MAINTAIN SUITABLE CORRIDORS AND COORDINATE ACCESS WITH ARFF PERSONNEL THROUGH THE ENGINEER AS REQUIRED.
- RUNWAY 7-25 AND TAXIWAYS D AND F SHALL REMAIN OPEN AT ALL TIMES
- COORDINATION WITH OTHER PROJECTS**
THIS PHASE IS BEING PERFORMED UNDER A CONSTRUCTION CONTRACT INCLUDING THE KODIAK AIRPORT RSA EXTENSION, PROJECT NO. 53587, AND KODIAK AIRPORT DEVILS CREEK CULVERT REPAIR, PROJECT NO. 57474. THE CONSTRUCTION SAFETY AND PHASING PLAN INCLUDES BOTH PROJECTS. PROVISIONS FOR THE PLAN ARE APPLICABLE TO BOTH PROJECTS.

Date Revised: 4/08/2014 S.S. EM
Last Name: ADC-CE-0001
File Path and Name: C:\Planning\Net\cl117361\A00.DC\BD1-BD2_Safety_Plan\Phase 3



A-1

SHEET 1 of 1

EXISTING PROPOSED

INTERNATIONAL BOUNDARY LINE (dashed line)

CORPORATED OR CITY LIMITS (dashed line)

TOWNSHIP & RANGE LINE (dashed line)

SECTION LINE OR BLOCK LINE, NOT ABUTTING STREET IN SUBDIVISIONS (dashed line)

1/4 SECTION LINE (dashed line)

1/16 SECTION LINE OR LOT LINE IN SUBDIVISIONS (dashed line)

CONTROLLED ACCESS (dashed line)

EASEMENT LINE (PROPOSED) (dashed line)

EASEMENT LINE (EXISTING) (dashed line)

SET BACK LINE (dashed line)

PROJECT RIGHT-OF-WAY LINE (dashed line)

R/W (dashed line)

STAKED CENTERLINE (dashed line)

CONSTRUCTION CENTERLINE (dashed line)

EXISTING CENTERLINE (dashed line)

STATION EQUATIONS (dashed line)

SECTION LINE INTERSECTION (dashed line)

ROAD CLOSURE (dashed line)

LIMIT OF CUT SLOPE (dashed line)

LIMIT OF FILL SLOPE (dashed line)

OBLITERATE ROADWAY (dashed line)

RECOVERED MONUMENT (circle)

RECORD MONUMENT (cross)

TOWNSHIP CORNER (circle)

SECTION CORNER (cross)

1/4 SECTION CORNER (cross)

CENTERLINE SURVEY MONUMENT (cross)

P. K. NAIL (triangle)

MISCELLANEOUS FOUND CORNER (circle)

MAILBOX (square)

SATELLITE DISH (star)

ALASKA CANADA (dashed line)

PEN #4 (arrow)

PEN #1 (arrow)

T.17N., R.2W., SM (arrow)

T.16N., R.2W., SM (arrow)

PEN #1 (arrow)

PEN #1 (arrow)

PEN #1 (arrow)

PEN #3 (arrow)

C/A (arrow)

PEN #1 (arrow)

PEN #00 (arrow)

PEN #0 (arrow)

PEN #3 (arrow)

R/W (arrow)

PEN #2 (arrow)

PEN #3 (arrow)

PEN #1 (arrow)

L' 48+94.70 PT = PEN #1 (arrow)

L' 48+32.05 PDT (arrow)

S 23° 30'W (arrow)

193.6' (angle)

51+41.3' (angle)

615' (angle)

115' (angle)

PVC CONDUIT (dashed line)

RIGID METAL CONDUIT (EXISTING) (dashed line)

RIGID METAL CONDUIT (PROPOSED) (dashed line)

RAILROAD TRACKS--- SINGLE--- (one line)

MULTIPLE or DOUBLE--- (multiple lines)

RAILROAD PROTECTIVE DEVICES

ADVANCE WARNING (circle with X)

X-BUCK (X)

FLASHING LIGHT (circle with two dots)

CANTILEVER (circle with three dots)

EXISTING UTILITY PIPELINES (Direction or flow indicated by bell)

OIL (arrow pointing right)

SANITARY SEWER (arrow pointing right)

GAS (arrow pointing right)

WATER (arrow pointing right)

PROPOSED UTILITY PIPELINES

OIL (arrow pointing right)

SANITARY SEWER (arrow pointing right)

GAS (arrow pointing right)

WATER (arrow pointing right)

EXISTING STORM DRAIN (arrow pointing right)

PROPOSED STORM DRAIN STRUCTURE AND PIPE NO'S APPPLICABLE IF SHOWN

SD (arrow pointing right)

STORM DRAIN (arrow pointing right)

EXISTING (arrow pointing right)

PROPOSED (arrow pointing right)

FIRE HYDRANT (circle with Y)

METER (circle with O)

VALVE or RISER (X)

POWER POLE (square)

JOINT USE POWER & TELEPHONE (square)

TELEPHONE or TELEGRAPH POLE (circle)

TRANSMISSION TOWERS (cross)

POLE ANCHOR (line)

STUB POWER or TELEPHONE (circle)

TELEPHONE DUCT (dashed line)

ELECTRIC DUCT (dashed line)

TELEPHONE MANHOLE (TMAH)

ELECTRIC MANHOLE (EMH)

LUMINAIRE (MAST ARM MOUNTED) (circle with star)

LUMINAIRE (SPAN WIRE MOUNTED) (circle with star)

TELEPHONE PEDESTAL (triangle)

ELECTRICAL TRANSFORMER (E)

BURIED CABLE MARKER (square)

CATCH BASIN or DROP INLET (square)

MANHOLE (circle)

MH. (circle)

MH. (circle)

INTERMITTENT DRAINAGE (dashed line)

INTERCEPTOR DITCH (dashed line)

TUNNEL (dashed line)

EXISTING ROADWAY (dashed line)

DAM (circle)

FORD (arrow)

FERRY (circle)

HEAD & WINGWALLS (square)

LAKE & RESERVOIRS (circle)

RIVERS OR CREEK (wavy line)

BUILDINGS:

- H=HOUSE**
- M=MERCHANT/STORE**
- S=SHED**
- SS=SERVICE STATION**
- G=GARAGE**
- B=BARN**
- P=PRIVY**
- W=Warehouse**

FOUNDATIONS

PROPOSED (H)

EXISTING (H)

FD (square)

FD (square)

WETLANDS (wavy line)

STUMPS (stump)

TANK (ABOVE GROUND) (rectangle)

TANK (BELOW GROUND) (cylinder)

GAS PUMP (circle)

DELINERATOR--GUIDE MARKER (FACING →) (circle with arrow)

RETAINING WALL (horizontal line)

STONE FENCE (zigzag line)

DECIDUOUS TREE (leafy tree)

CONIFER TREE (conifer tree)

CONIFER TREE SHRUB (small conifer tree)

SIGN (FACING →) (square with arrow)

RIPRAP (Y shape)

BRIDGE (cross)

PIPE CULVERTS (dashed line)

NOISE BARRIER (dashed line)

FENCE LINE (dashed line)

GUARDRAIL (dashed line)

GUIDE POST (dashed line)

SIDEWALK (dashed line)

CONCRETE CURB (solid line)

CONCRETE CURB GUTTER (solid line)

DRIVeways, APPROACHES (dashed line)

SIGNAL FACE, VEHICULAR (arrow)

SIGNAL FACE, BACKPLATE (arrow)

SIGNAL FACE, LEFT TURN, BACKPLATE (arrow)

SIGNAL FACE, PEDESTRIAN (arrow)

JUNCTION BOX, TYPE I (square)

JUNCTION BOX, TYPE II (square)

JUNCTION BOX, TYPE III (square)

DETECTOR, LOOP (square)

DETECTOR, MAGNETOMETER (circle)

DETECTOR, RADAR (R)

DETECTOR, SONIC (S)

DETECTOR, OPTICOM

DETECTOR, PUSH BUTTON (DIRECTION →) (square)

SIGNAL CONTROLLER (square)

LOAD CENTER (square)

SIGNAL POLE (square)

SIGNAL POLE w/MASTARM (square)

SOLID WHITE STRIPE (solid line)

SOLID YELLOW STRIPE (solid line)

BROKEN WHITE or YELLOW STRIPE (dashed line)

DASH YELLOW STRIPE (dotted line)

SOLID YELLOW STRIPE with BROKEN YELLOW STRIPE (solid line with dashed line)

FOR STRIPING PLANS

W (solid line)

Y (solid line)

W Y (solid line with solid line)

Y (solid line)

Y (solid line)

842 (diamond)

R 2580+60 (diamond)

2.R Hwy. 126+38 (diamond)

RAILROAD MILE POST

143 (rectangle)

121+25 (rectangle)

REVISIONS

Date	Description	By

State of Alaska Department of Transportation & Public Facilities

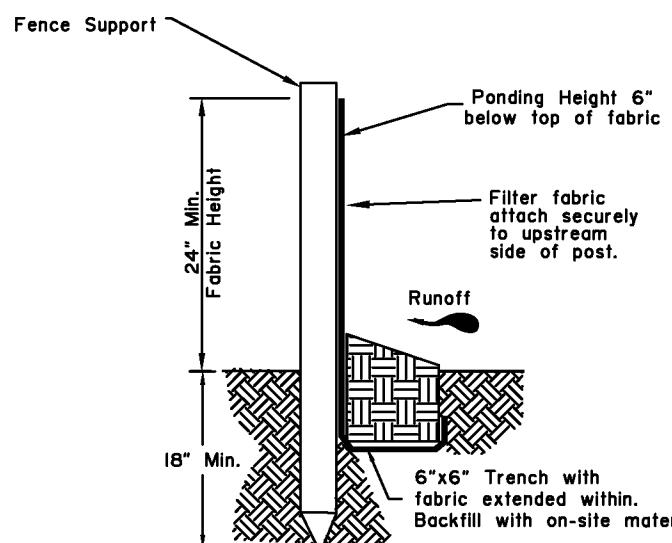
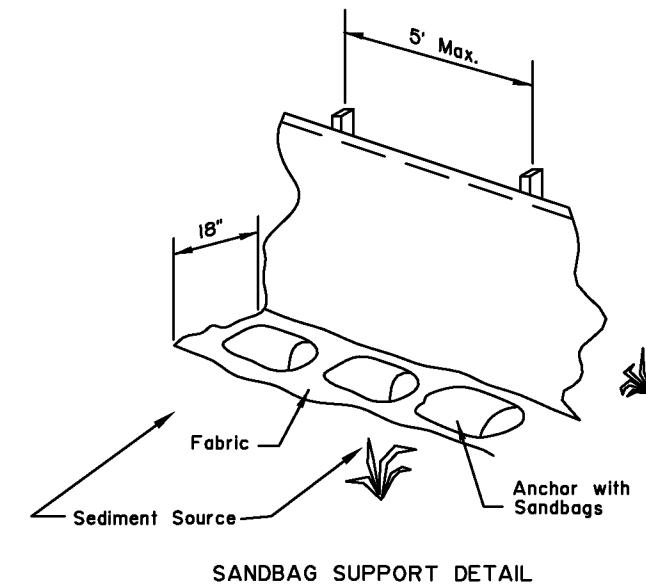
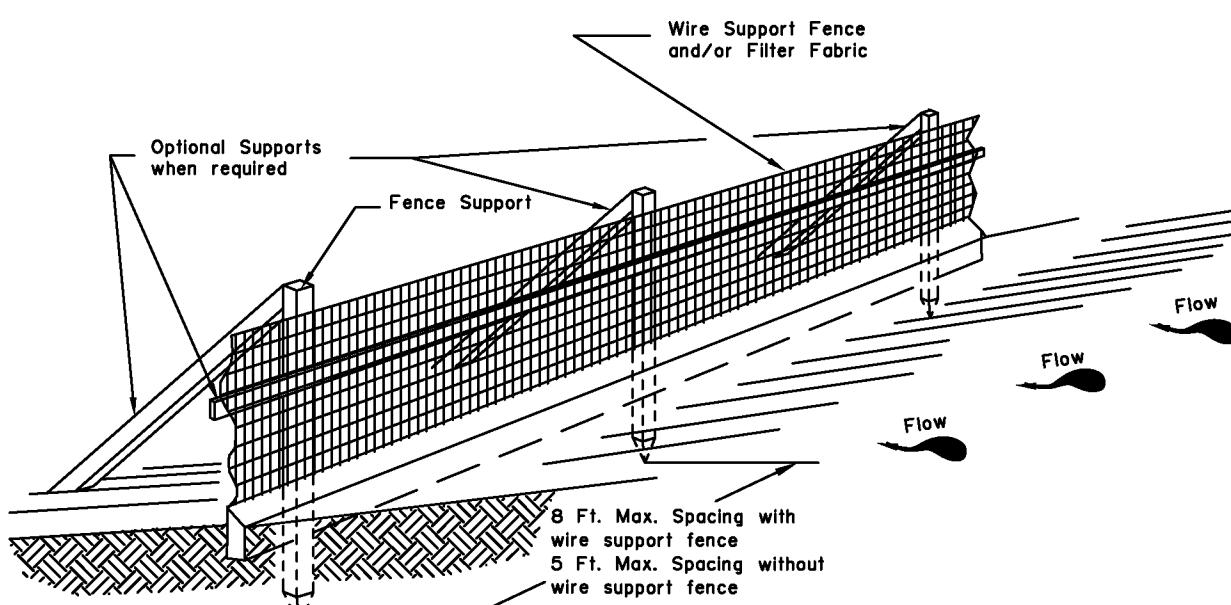
SYMBOLS

APPRAVED (star stamp)

A-1

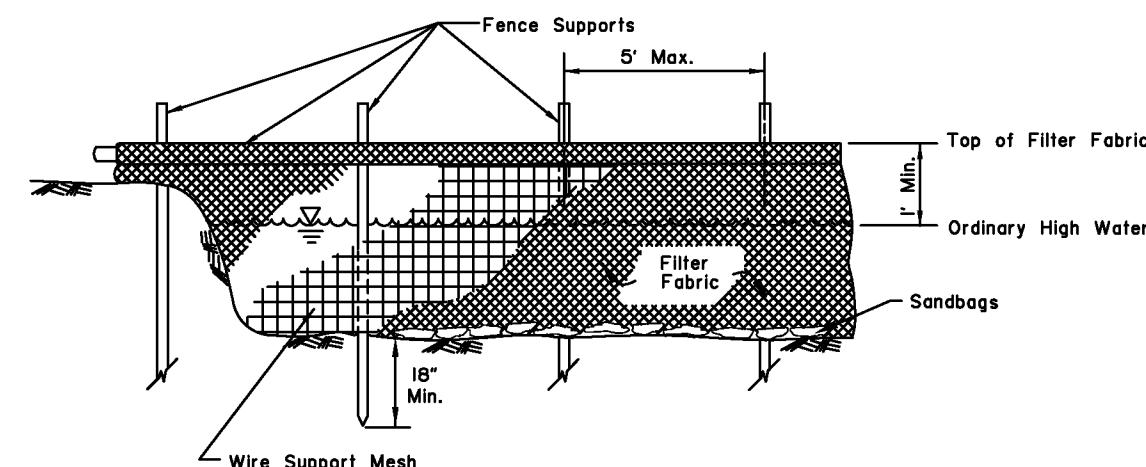
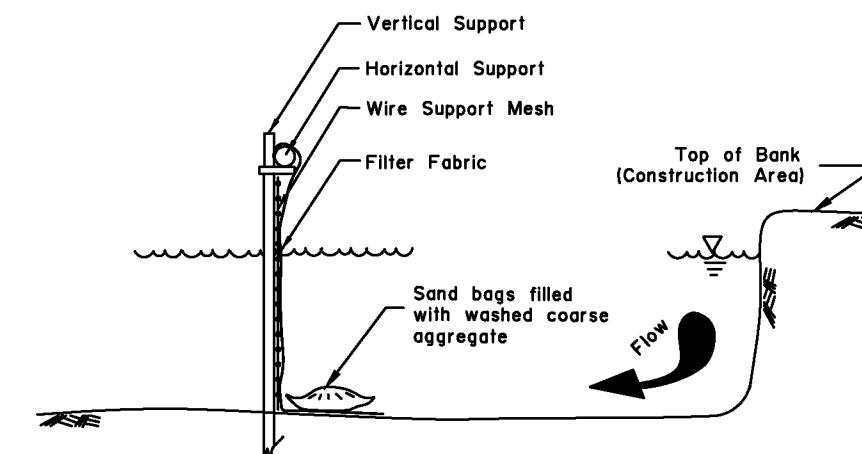
GENERAL NOTES:

1. Silt Fence Supports shall be 2-inch PVC pipe reinforced with iron pipe or No. 6 rebar, wood posts, or as approved.
2. For Water Installations, secure the ends of the silt fence to the stream bank by staking.
3. Use approved Wire Support Mesh to keep filter fabric in place in water installations.
4. For Land Installations, fence shall be placed at the toe of embankment or excavation areas, or as directed.
5. Fence anchored in standing water shall have the bottom anchored with sandbags or equivalent to prevent gaps.
6. Installation and application shall be in accordance with the practices as outlined in the Erosion and Sediment Control Plan.
7. Filter fabric shall be overlapped 6 inches at fence supports.
8. Filter fabric shall be hung taut, not loose or folded.



TRENCH SUPPORT DETAIL

TYPICAL LAND INSTALLATION

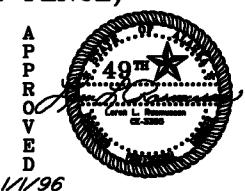


TYPICAL WATER INSTALLATION

REVISIONS		
Date	Description	By

State of Alaska
Department of Transportation
& Public Facilities

**SEDIMENT CONTROL
SYSTEM
(SILT FENCE)**



Date 11/1996