

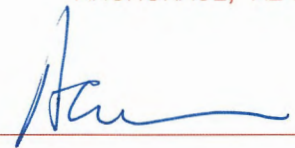
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**CONSTRUCTION PLANS FOR**  
**KING SALMON AIRPORT**

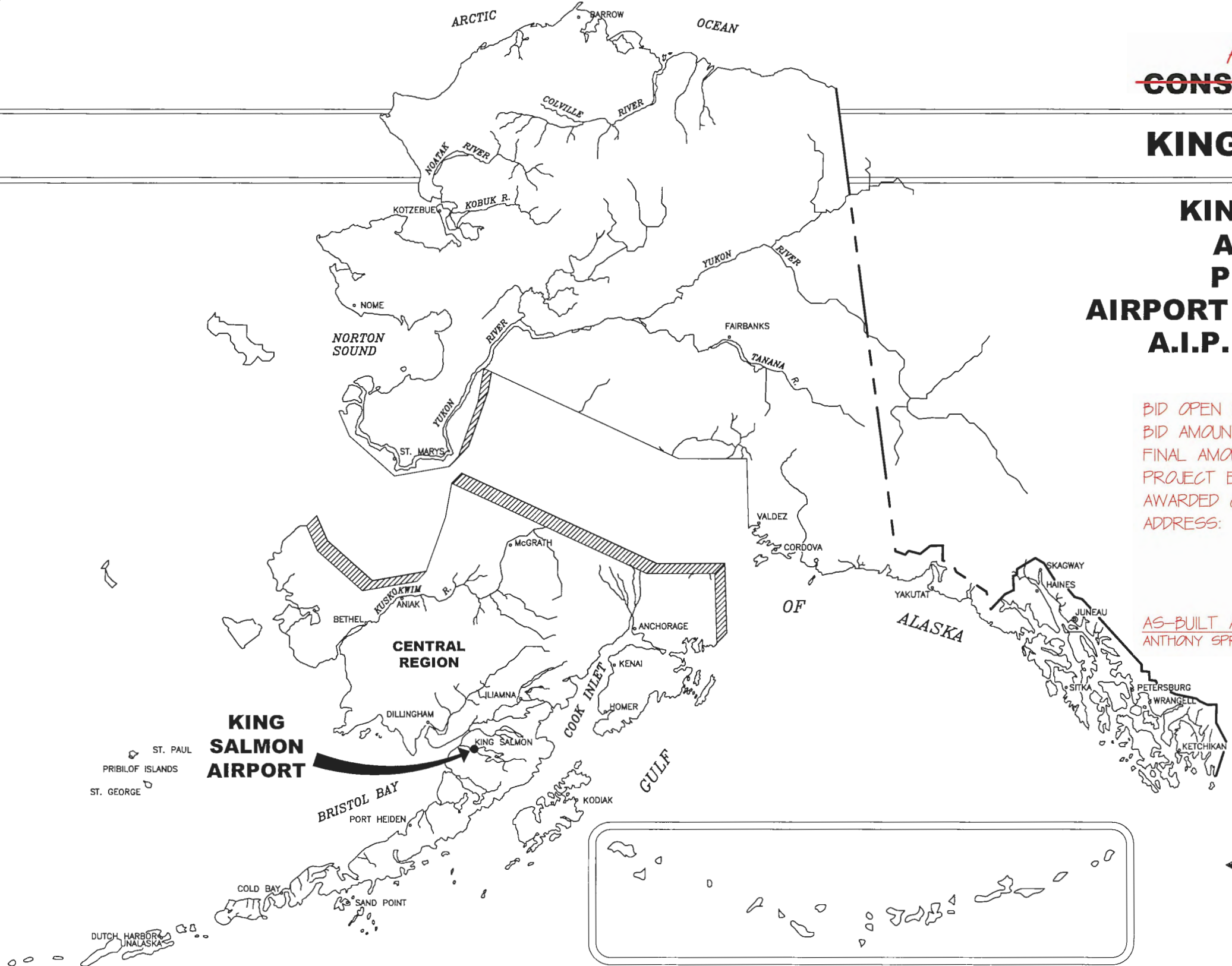
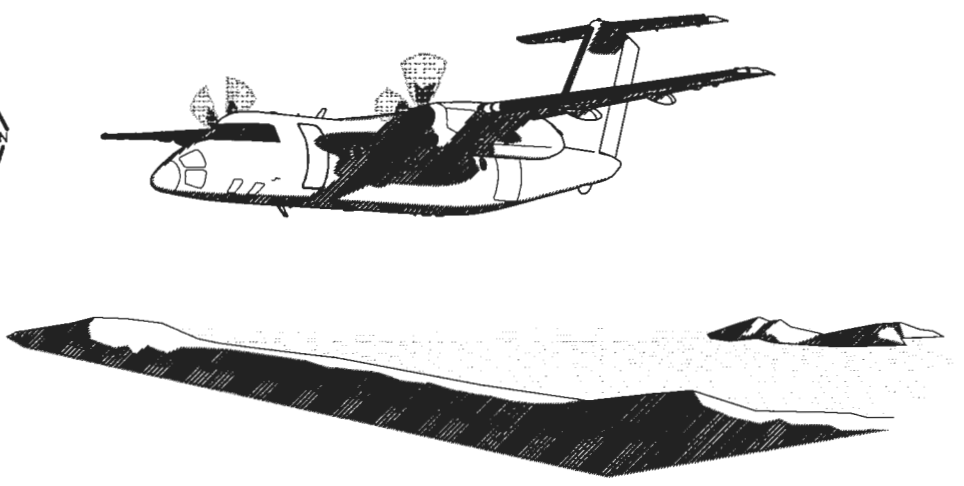
**KING SALMON, ALASKA**  
**AIRPORT LIGHTING**  
**PROJECT No. 52673**  
**AIRPORT IMPROVEMENT PROGRAM**  
**A.I.P. No. 3-02-0148-12-2011**  
**2011**

BID OPEN DATE: MARCH 23, 2011  
 BID AMOUNT: \$6,109,623.00  
 FINAL AMOUNT: \$5,799,028.61  
 PROJECT ENGINEER: LOUIE WEGGENER  
 AWARDED CONTRACTOR: GRANITE CONSTRUCTION COMPANY  
 ADDRESS: 11471 LANG STREET  
 ANCHORAGE, ALASKA 99515

AS-BUILT APPROVED  
 ANTHONY SPRAGUE, P.E.



DATE 8-25-14  
 CONSTRUCTION GROUP CHIEF



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

<b>CONCUR</b> ROBERT A. CAMPBELL, P.E.	<b>DATE</b> DIRECTOR OF DESIGN AND CONSTRUCTION
<b>APPROVED</b> K. KIM RICE, P.E.	<b>DATE</b> REGIONAL PRECONSTRUCTION ENGINEER
<b>APPROVED</b> HARVEY M. DOUTHIT, P.E.	<b>DATE</b> DESIGN SECTION CHIEF
<b>APPROVED</b> MORGAN P. MERRITT, P.E.	<b>DATE</b> PROJECT MANAGER

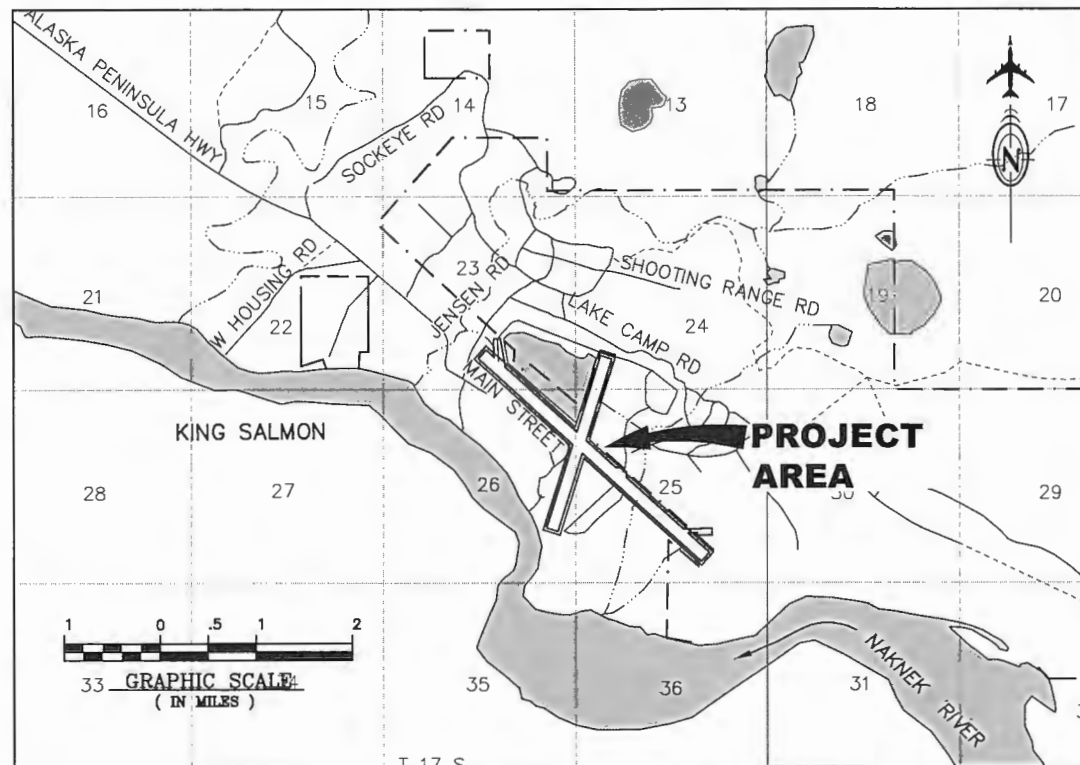
**KING SALMON**  
**AIRPORT LIGHTING**  
**PROJECT No. 52673**  
**A.I.P. No. 3-02-0148-12-2011**

**SHEET 1 OF 54**  
 AS-BUILT 6/2014 | OF 57



# CIVIL LEGEND

EXISTING	NEW	DESCRIPTION
---		PROPERTY BOUNDARY
---		RUNWAY SAFETY AREA
---		EDGE OF GRAVEL
---	---	EDGE OF PAVEMENT
	---	RAP
	---	CONCRETE
-X-X-		FENCE
SD		STORM DRAIN LINE
S		SANITARY SEWER LINE
---	---	CULVERT
---		DRAINAGE
---		WETLANDS
E		UNDERGROUND ELECTRIC LINE
C		UNDERGROUND COMMUNICATION LINE
120		CONTOUR LINE
	---	SILT FENCE
	---	BUILDING
	---	STORM DRAIN MANHOLE
	---	SANITARY SEWER MANHOLE
	---	SEWER CLEANOUT
	---	SEWER SEPTIC CLEANOUT
	---	MONITORING WELL
	---	WATER VALVE
	---	HYDRANT
	---	FUEL TANK
	---	GUARD RAIL
	---	ELECTRICAL PEDESTAL
	---	ELECTRICAL VAULT/TRANSFORMER
	---	RADIO TOWER
	---	ELECTRIC METER
	---	GUY ANCHOR
	---	ELECTRIC POWER POLE
	---	ELECTRIC LIGHT POLE
	---	ELECTRIC MANHOLE
	---	ELECTRIC JUNCTION BOX
	---	RUNWAY THRESHOLD LIGHT (BLUE/RED)
	---	RUNWAY EDGE LIGHT (WHITE)
	---	RUNWAY EDGE LIGHT (BLUE)
	---	RUNWAY APPROACH LIGHT
	---	TAXIWAY/APRON EDGE LIGHT
	---	PAPI
	---	TELEPHONE PEDESTAL
	---	TELEPHONE MANHOLE
	---	SIGN/MARKER
	---	RUNWAY DISTANCE REMAINING SIGN
	---	BOLLARD
	---	EXISTING TEST HOLE
	---	AIRCRAFT TIE DOWN
	---	AIRCRAFT TIEDOWN ANCHORS
	---	SATELLITE/RADAR DISH
	---	SPRUCE TREE
	---	ELECTRICAL PLUG IN
	---	ELECTRIC POWER POLE W/ LIGHT
	---	SEWER VENT PIPE
	---	LIGHTED WIND CONE
	---	SEGMENTED CIRCLE



## VICINITY MAP

T 17 S, R 45 W, SEC. 23, 25, 26, & 36,  
SEWARD MERIDIAN, ALASKA  
U.S.G.S. NAKNEK A-4 & A-5, AK

## GENERAL NOTES

- EXISTING GROUND CONTOURS ARE BASED ON DOWL HKM TOPOGRAPHIC SURVEY PERFORMED IN JULY THROUGH OCTOBER 2005, JANUARY & NOVEMBER 2006, AND JULY & AUGUST 2007.
- SOILS INFORMATION IS DERIVED FROM SOILS INVESTIGATIONS PERFORMED BY DOT&PF AND DOWL HKM. SEE GEOTECHNICAL REPORT DATED JUNE 2008 TITLED KING SALMON AIRPORT RUNWAY SAFETY AREA IMPROVEMENTS PHASE 1 AND REPORT DATED APRIL 2008 TITLED SUBSURFACE EXPLORATION AND GEOTECHNICAL RECOMMENDATIONS, KING SALMON AIRPORT IMPROVEMENTS.
- LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE BASED ON A COMBINATION OF FIELD SURVEY, AS BUILT RECORDS, AND APPROXIMATIONS FROM AIRPORT MAINTENANCE STAFF. CONTRACTOR SHALL FIELD LOCATE UTILITIES PRIOR TO EXCAVATION.
- VERIFY HORIZONTAL AND VERTICAL LOCATIONS OF ALL UTILITIES ENCOUNTERED DURING CONSTRUCTION. RECORD LOCATIONS AND CHANGES TO UTILITIES IN SURVEY NOTES AND ON AS BUILT DRAWINGS.
- VERIFY INVERTS AND LOCATIONS OF ALL UTILITY CONNECTION POINTS PRIOR TO INSTALLING PIPE. REPORT DISCREPANCIES FROM PLANS IMMEDIATELY TO OWNER'S REPRESENTATIVE.
- ELEVATIONS SHOWN ARE TO PIPE INVERT, FLOW LINE, OR FINISH PAVEMENT SURFACE UNLESS OTHERWISE NOTED.
- RESTORE ALL DISTURBED PROPERTY OUTSIDE OF WORK LIMITS TO ORIGINAL CONDITION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR EROSION AND SEDIMENT CONTROLS AS NECESSARY TO COMPLY WITH FEDERAL, STATE, AND BOROUGH LAWS THAT PROHIBIT UNPERMITTED DISCHARGE OF POLLUTANTS, INCLUDING SEDIMENTS, THAT ARE A RESULT OF EROSION AND OTHER CONSTRUCTION ACTIVITIES. THE CONTRACTOR SHALL CONDUCT ALL WORK SO SEDIMENT IS NOT TRANSPORTED ONTO THE ROADWAY OR ADJACENT PROPERTY. AT A MINIMUM, THE CONTRACTOR SHALL SWEEP UP ANY SEDIMENT TRACKED ONTO PAVED SURFACES IMMEDIATELY TO MINIMIZE THE WASH-OFF OF SEDIMENT INTO THE STORM DRAINAGE SYSTEM OR WATERWAYS AND TO MINIMIZE FOD. THE CONTRACTOR SHALL CONFORM WITH APPROVED SWPPP.

## ABBREVIATIONS

ABN	ABANDONED	EMT	ELECTRICAL METALLIC TUBING	PCMP	POLYMER COATED METAL PIPE
AC	ASPHALT CONCRETE	EVCE	END VERTICAL CURVE ELEVATION	POFZ	PRECISION OBSTACLE FREE ZONE
ACP	ASPHALT CONCRETE PAVEMENT	EVCS	END VERTICAL CURVE STATION	PVI	POINT OF VERTICAL INTERSECTION
AD	ALGEBRAIC DIFFERENCE	FAA	FEDERAL AVIATION ADMINISTRATION	RAP	RECYCLED ASPHALT PAVEMENT
AIP	AIRPORT IMPROVEMENTS PROJECT	FOD	FOREIGN OBJECT DEBRIS	RT	RIGHT
BFM	BONDED FIBER MATRIX	FT	FOOT	R/W	RUNWAY
BLDG	BUILDING	HMA	HOT MIX ASPHALT	RSA	RUNWAY SAFETY AREA
BVCE	BEGINNING VERTICAL CURVE ELEVATION	IFR	INSTRUMENT FLIGHT RULES	S	SOUTH
BVCS	BEGINNING VERTICAL CURVE STATION	INV	INVERT	SD/FD	STORM DRAIN FIELD DRAIN
CABC	CRUSHED AGGREGATE BASE COURSE	LF	LINEAR FOOT	SDMH	STORM DRAIN MANHOLE
CASC	CRUSHED AGGREGATE SURFACE COURSE	LT	LEFT	SRE	SNOW REMOVAL EQUIPMENT
C	CENTERLINE	MAX	MAXIMUM	STA	STATION
CM	CORRUGATED METAL PIPE	ME	MATCH EXISTING	SY	SQUARE YARD
CPEP	CORRUGATED POLYETHYLENE PIPE	MH	MANHOLE	TSA	TAXIWAY SAFETY AREA
CY	CUBIC YARD	MIN	MINIMUM	T/W	TAXIWAY
DIA	DIAMETER	N	NORTH	TYP	TYPICAL
DOT&PF	STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES	NOTAM	NOTICE TO AIRMEN	UG	UNDERGROUND
E	EAST	NTS	NOT TO SCALE	VASI	VISUAL APPROACH SLOPE INDICATOR
ELEC	ELECTRIC	PAPI	PRECISION APPROACH PATH INDICATOR	VC	VERTICAL CURVE
ELEV	ELEVATION	PCC	PORTLAND CEMENT CONCRETE	W	WEST



DATE ORIGINALLY  
STAMPED 2/18/11

DATE	REVISION
6/2014	AS-BUILT

STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION  
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CENTRAL REGION

KING SALMON AIRPORT  
KING SALMON, ALASKA  
AIRPORT LIGHTING  
PROJECT No. 52673  
AIP No. 3-02-0148-12-2011  
VICINITY MAP, ABBREVIATIONS,  
LEGEND, NOTES, & INDEX

DATE: 2/22/2011  
SHEET: 2 OF 54  
AS-BUILT SHEET: 2 OF 57

## SHEET TITLE

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MARKING DETAILS	23

### ELECTRICAL

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RUNWAY 18-36 LIGHTING DEMOLITION PLANS	D7-D9
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EXISTING REGULATOR/GENERATOR BUILDING DEMOLITION PLAN	D11
TEMPORARY LIGHTING AND DEMOLITION DETAILS	D12
RUNWAY 12-30 LIGHTING PLANS	E1-E6
RUNWAY 18-36 LIGHTING PLANS	E7-E9
TAXIWAY C AND E LIGHTING PLANS	E10
ELECT. ENCLOSURE/STANDBY GENERATOR ENCLOSURE SITE PLAN	E11
LIGHTING DETAILS	E12-E13
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WIND CONE DETAILS	E15
ELECTRICAL ENCLOSURE PLAN AND ONE-LINE DIAGRAM	E16
STANDBY GENERATOR ENCLOSURE	E17
RUNWAY LIGHTING CONTROL WIRING DIAGRAM	E18

### RLIM DRAWINGS

L&A LIGHTING INTERFACE PANEL TYPE I, CLASS W, STYLE I, MODE I E19A-E20A E21A

### MECHANICAL

ELECTRICAL ENCLOSURE VENTILATION PLAN AND SECTIONS	M1
--	----

THE FOLLOWING DOT&PF STANDARD  
DRAWINGS APPLY TO THIS PROJECT:  
E-13.00



7/01/2014, 3:55 PM  
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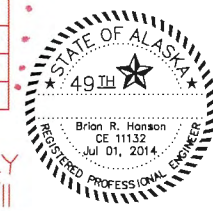
Designed By: MLI  
 Drawn By: ROL  
 Checked By: BRH

ESTIMATE OF QUANTITIES BASE BID

ITEM NO.	PAY ITEM	PAY UNIT	QUANTITY
D-701a	CPEP PIPE, 24 INCH	LINEAR FOOT	34
G-100a	MOBILIZATION AND DEMOBILIZATION	LUMP SUM	ALL REQUIRED
G-115a	WORKER MEALS AND LODGING, OR PER DIEM	LUMP SUM	ALL REQUIRED
G-130a	FIELD OFFICE	LUMP SUM	ALL REQUIRED
G-130b	FIELD LABORATORY	LUMP SUM	ALL REQUIRED
G-130g	NUCLEAR TESTING EQUIPMENT STORAGE SHED	EACH	1
G-130j	ENGINEERING COMMUNICATIONS	CONTINGENT SUM	ALL REQUIRED
G-131a	ENGINEERING TRANSPORTATION (TRUCK)	EACH	3
G-135a	CONSTRUCTION SURVEYING BY THE CONTRACTOR	LUMP SUM	ALL REQUIRED
G-135b	EXTRA THREE PERSON SURVEY PARTY	HOUR	72
G-150a	EQUIPMENT RENTAL, DOZER (MINIMUM 70HP)	HOUR	48
G-300a	CPM SCHEDULING	LUMP SUM	ALL REQUIRED
G-700a	AIRPORT FLAGGER	CONTINGENT SUM	ALL REQUIRED
L-100b	REGULATOR, L-828	EACH	4
L-100c	HIGH INTENSITY RUNWAY EDGE AND THRESHOLD LIGHT, L-862 AND L-862E	EACH	91
L-100d	MEDIUM INTENSITY RUNWAY EDGE AND THRESHOLD LIGHT, L-861 AND L-861E	EACH	45
L-100e	TAXIWAY EDGE LIGHT L-861T	EACH	139
L-100h	REMOVE RUNWAY AND TAXIWAY LIGHT	EACH	263
L-100k	FLUSH RUNWAY EDGE LIGHT, L-850C	EACH	7
L-100n	AIRPORT SIGN, TYPE L-858	EACH	2
L-100q	JUNCTION BOX, TYPE II	EACH	5
L-100r	TEMPORARY RUNWAY LIGHTING SYSTEM	LUMP SUM	ALL REQUIRED
L-100ap	SPARE PARTS	LUMP SUM	ALL REQUIRED
L-107a	8-FOOT LIGHTED WIND CONE, IN PLACE	EACH	3
L-108a	UNDERGROUND CABLE #8 AWG, COPPER, 5 KV FAA TYPE "B" OR TYPE "C" (AS SPECIFIED ON PLAN), L-824	LINEAR FOOT	65,000
L-108c	#6 BARE COPPER GROUND CONDUCTOR	LINEAR FOOT	40,000
L-108g	GROUND ROD	EACH	36
L-108h	UNDERGROUND CABLE #14 AWG, 2 CONDUCTOR, COPPER, 600V, TYPE "SOOW-A/SOOW"	LINEAR FOOT	1,750
L-108m	UNDERGROUND TELEPHONE CONTROL CABLE, #19 AWG, COPPER, 50 PR	LINEAR FOOT	520
L-108r	REMOVE DUCTBANK CONDUCTORS	LUMP SUM	ALL REQUIRED
L-109c	ELECTRICAL ENCLOSURE AND FOUNDATION IN PLACE	EACH	1
L-109d	INSTALLATION OF ELECTRICAL EQUIPMENT IN NEW OR EXISTING STRUCTURE	EACH	1
L-109h	OVERHEAD ELECTRICAL SERVICE LINE	CONTINGENT SUM	ALL REQUIRED
L-110g	2-INCH HDPE CONDUIT	LINEAR FOOT	38,000
L-135b	RELOCATE RVR	LUMP SUM	ALL REQUIRED
L-145a	STANDBY GENERATOR AND ENCLOSURE	LUMP SUM	ALL REQUIRED
P-157a	EROSION, SEDIMENT, AND POLLUTION CONTROL ADMINISTRATION	LUMP SUM	ALL REQUIRED
P-157b	TEMPORARY EROSION, SEDIMENT, AND POLLUTION CONTROL	CONTINGENT SUM	ALL REQUIRED
P-157e	SWPPP PRICE ADJUSTMENT	CONTINGENT SUM	ALL REQUIRED
P-161a	RECYCLED ASPHALT PAVEMENT	SQUARE YARD	61,420
P-165a	REMOVAL OF STRUCTURES	LUMP SUM	ALL REQUIRED
P-165e	REMOVAL OF UNFORESEEN STRUCTURES	CONTINGENT SUM	ALL REQUIRED
P-209b	CRUSHED AGGREGATE BASE COURSE	TON	6,000
P-401a	HOT MIX ASPHALT TYPE II, CLASS A	TON	9,750
P-401b	HOT MIX ASPHALT PRICE ADJUSTMENT	CONTINGENT SUM	ALL REQUIRED
P-401c	ASPHALT CEMENT, PG 52-28	TON	540
P-620c	RUNWAY AND TAXIWAY PAINTING	LUMP SUM	ALL REQUIRED
P-670b	FLASHER UNIT FOR PLASTIC BARRIER	EACH	50
P-670c	FLAG	EACH	50
P-680a	SILT FENCE	LINEAR FOOT	750
P-152da	RUNWAY 18-36 DRAINAGE IMPROVEMENTS	LUMP SUM	ALL REQUIRED
L-100na	REPAIR EXISTING AIRPORT SIGNS	LUMP SUM	ALL REQUIRED
L-100s	INSTALL ARRESTOR LIGHT TRANSFORMERS	LUMP SUM	ALL REQUIRED
L-100t	ELECTRICAL MANHOLE REPAIR	LUMP SUM	ALL REQUIRED
L-108s	REPAIR OF BAK ARRESTOR US CONDUCTOR	LUMP SUM	ALL REQUIRED
L-109da	INSTALL ENCLOSURE RVR BOXES	LUMP SUM	ALL REQUIRED
L-110ga	INSTALL 2 INCH HDPE CONDUIT CROSSINGS	LUMP SUM	ALL REQUIRED
P-152z	T/W SHOULDER SUBGRADE PREPARATION	LUMP SUM	ALL REQUIRED
P-151f	T/W SHOULDER SOD REMOVAL	LUMP SUM	ALL REQUIRED
P-152y	STATION 82+01 TO 92+90 PAVEMENT EXCAVATION	LUMP SUM	ALL REQUIRED
L-100x	RECONFIGURE AIRFIELD LIGHTING CONTROL SYSTEM	LUMP SUM	ALL REQUIRED
P-152z	PAVEMENT EXCAVATION AND SAWCUTTING	LUMP SUM	ALL REQUIRED

35  
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 141 + TWO ADDED AT TW C  
 265  
 6  
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 630  
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 68,216.5  
 0  
 10,925.05  
 597.9  
 52  
 52  
 352

DATE ORIGINALLY STAMPED 2/18/11



P-165a REMOVAL OF STRUCTURES  
 ESTIMATE OF REMOVED STRUCTURES DESIGNATED FOR DISPOSAL  
 \*SEE PLANS FOR ALL ITEMS\*

WORK AREA	ITEM	APPROXIMATE QUANTITY
A - CRITICAL AREAS	8 PCC ENCASED LIGHT BASES	3.5 CF PCC REMOVAL PER BASE = 28 CF = 1 CY
B - R/W 12-30	R/W 12 THRESHOLD LIGHTS	8 LIGHTS
B - R/W 12-30	R/W 12 THRESHOLD PCC	27 CY
B - R/W 12-30	DECOMMISSION MANHOLE 17	1
B - R/W 12-30	71 PCC ENCASED LIGHT BASES	3.5 CF PCC REMOVAL PER BASE = 249 CF = 27 CY
D - R/W 18-36 & T/Ws	SUPPLEMENTAL WIND CONE	1
D - R/W 18-36 & T/Ws	R/W 18-36 EDGE LIGHT PCC REMOVAL	2,633 CY

\* SEE PLANS FOR ADDITIONAL ITEMS.

ESTIMATED QUANTITIES FOR SELECT\*  
 LUMP SUM OR SUBSIDIARY ITEMS

ITEM NO.	ITEM	APPROXIMATE QUANTITY
	HANDHOLE	17
L-107a	UNDERGROUND CABLE #8 AWG, COPPER, 5 KV FAA TYPE "B" OR TYPE "C", L-824	21,480 LF
	#6 BARE COPPER GROUND CONDUCTOR	9,210 LF
	2-INCH HDPE CONDUIT	7,860 LF
P-620c	RUNWAY AND TAXIWAY PAINTING	26 GAL YELLOW PAINT

\* SEE PLANS FOR ADDITIONAL ITEMS.

ESTIMATING FACTORS

ITEM NO.	PAY ITEM	ESTIMATING FACTOR
P-209b	CRUSHED AGGREGATE BASE COURSE	145 lb/ft3
P-401a	HOT MIX ASPHALT TYPE 2, CLASS A	150 lb/ft3
P-401c	ASPHALT CEMENT, PG 52-28	5.5% BY WEIGHT OF P-401a
P-603a	TACK COAT, STE-1	0.10 gal/SY, 8.45 lb/gal

ESTIMATED VOLUME OF OF RAP  
 AVAILABLE AFTER PROCESSING

LOCATION	QUANTITY
WORK AREA A - CRITICAL AREAS	268 CY
WORK AREA B - R/W 12-30	1,873 CY
WORK AREA C - R/W 12 BLAST PAD	200 CY
WORK AREA D - R/W 18-36 & T/Ws	1,317 CY
WORK AREA E - ENCLOSURES	0 CY

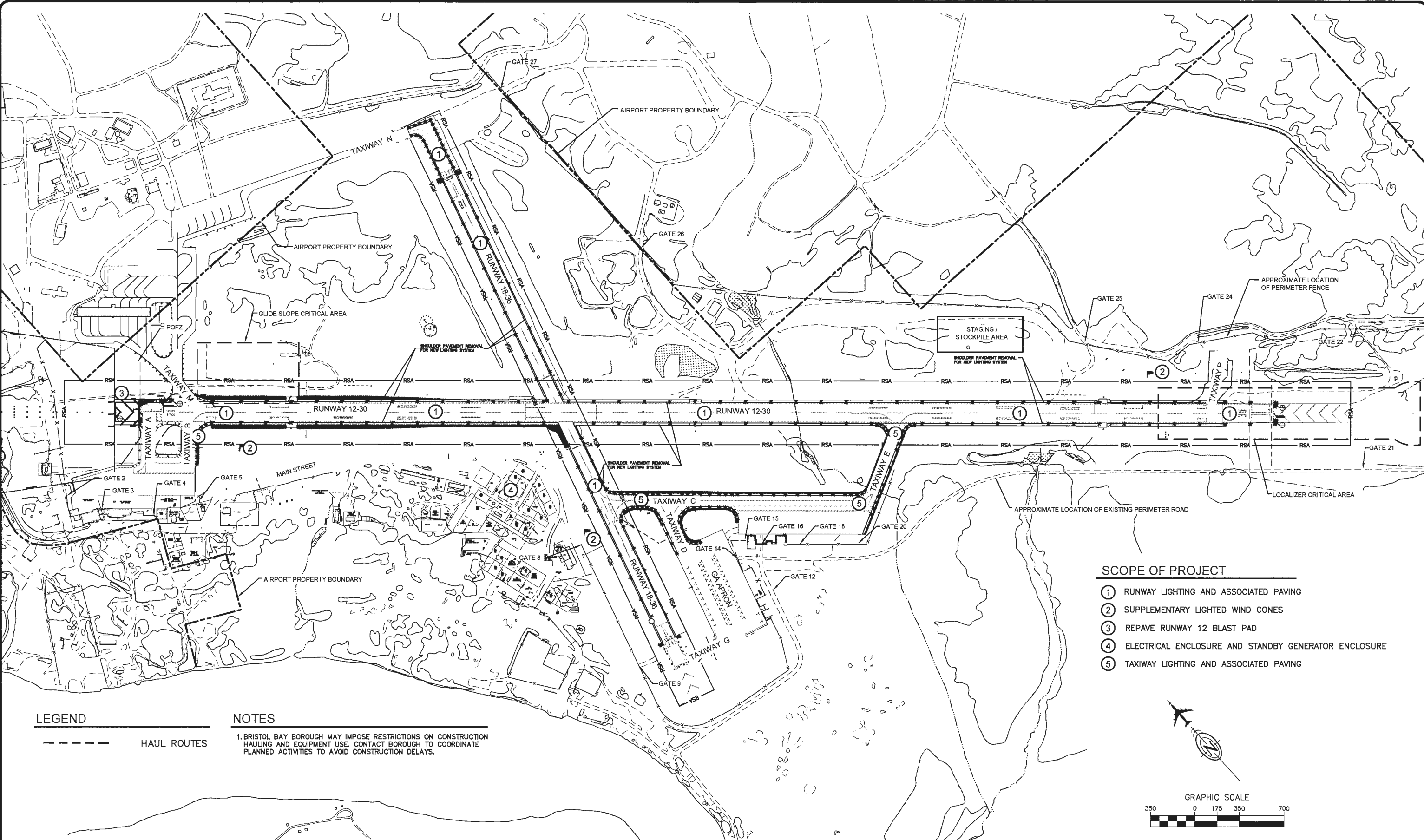
TC	6/2014	AS-BUILT
BY	DATE	REVISION

STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION  
 AND PUBLIC FACILITIES  
 CENTRAL REGION

KING SALMON AIRPORT  
 KING SALMON, ALASKA  
 AIRPORT LIGHTING  
 PROJECT No. 52673  
 AIP No. 3-02-0148-12-2011  
 ESTIMATED QUANTITIES, ESTIMATING  
 FACTORS, & SUMMARY TABLES

DATE: 2/22/2011  
 SHEET: 3 OF 54  
 AS-BUILT SHEET: 3 OF 57

Date Revised: 7/01/2014, 4:00 PM  
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 DOWL FILE No: 234-26  
 Designed By: MLI  
 ROL  
 Drawn By:  
 Checked By: BRH



**SCOPE OF PROJECT**

- ① RUNWAY LIGHTING AND ASSOCIATED PAVING
- ② SUPPLEMENTARY LIGHTED WIND CONES
- ③ REPAVE RUNWAY 12 BLAST PAD
- ④ ELECTRICAL ENCLOSURE AND STANDBY GENERATOR ENCLOSURE
- ⑤ TAXIWAY LIGHTING AND ASSOCIATED PAVING

**LEGEND**

--- HAUL ROUTES

**NOTES**

1. BRISTOL BAY BOROUGH MAY IMPOSE RESTRICTIONS ON CONSTRUCTION HAULING AND EQUIPMENT USE. CONTACT BOROUGH TO COORDINATE PLANNED ACTIVITIES TO AVOID CONSTRUCTION DELAYS.



DATE ORIGINALLY STAMPED 2/18/11

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TR	6/20/14	AS-BUILT

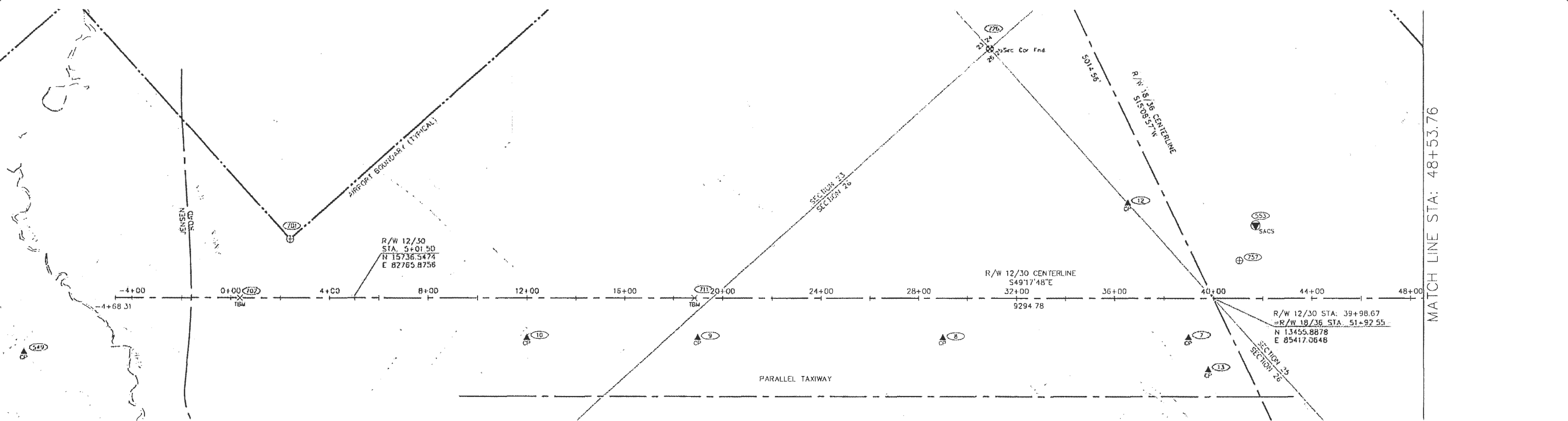
STATE OF ALASKA  
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KING SALMON AIRPORT  
 KING SALMON, ALASKA  
 AIRPORT LIGHTING  
 PROJECT No. 52673  
 AIP No. 3-02-0148-12-2011  
 PROJECT LAYOUT PLAN

DATE: 2/22/2011  
 SHEET: 4 OF 54  
 AS-BUILT SHEET:  
 4 OF 57



DDAK FILE NO 23-20  
 DESIGNED BY LMI  
 DRAWN BY CJP/AMW  
 CHECKED BY BJB  
 DATE 2/22/2011 9:45 AM  
 PROJECT: 52527 SURVEYING SERVICES - STATE OF ALASKA  
 SHEET: 5 OF 54  
 PLAN PREPARED BY DOWL HKM



MATCH LINE STA: 48+53.76

**HORIZONTAL CONTROL:**

**Coordinate System:**  
 This project is located within the "King-Nak" Coordinate System, a local surface grid coordinate system expressed in U.S. Survey feet units developed by the State of Alaska Department of Transportation and Public Facilities.

**Basis of Coordinates:**  
 The Basis of Coordinates is NGS Primary Airport Control Station "AKN-A", located near the southeast corner of Runway 18/36. Said station has "King-Nak" Coordinate System coordinates of 10997.3450 N, 84963.3550 E. U.S. Survey Feet.

**Basis of Bearings:**  
 The Basis of Bearings is a local plane bearing between NGS Primary Airport Control Station "AKN-A" and NGS Secondary Airport Control Station "AKN-C". NGS Secondary Airport Control Station "AKN-C" bears N28°12'27.9"W a distance of 5315.9136 feet from NGS Primary Airport Control Station "AKN-A". NGS Secondary Airport Control Station "AKN-C" has "King-Nak" Coordinate System coordinates of 15681.9384 N, 82450.6825 E. U.S. Survey Feet.

**Translation Parameters:**  
 To convert the local coordinates to NAD83 (92) State Plane coordinates expressed in U.S. Survey Feet, translate using +1697882.76131 N usf, +1811590.29829 E usf, and scale using 0.9999837981.

**VERTICAL CONTROL:**  
 Elevations are based on Primary Airport Control Station (PACS) Monument "AKN-A" with a published elevation of 55.2'. The NGS Data Sheet lists on NAVD 88 orthometric height for this point that was determined by GPS observations and a high-resolution geoid model. GPS derived orthometric heights for airport stations designated as PACS or SACS are published to 1 decimal place (U.S. Survey Feet). This maintains relative accuracy between the PACS and SACS, it does not indicate accuracy relative to other marks which are part of the NAVD 88 network.

Elevations of Secondary Airport Control Stations (SACS), and other Horizontal & Vertical Survey Control points were established by differential levelling loops using a Leica DNA10 digital level. Elevations of Secondary Horizontal Survey Control points should be verified from the Vertical Survey Control before using due to the potential of settlement or frost heave of these types of monuments over time.

**NOTES:**

- Horizontal control points 551, and 552 were used as the basis of coordinates and held in a simultaneous Least Squares Network Adjustment with Static GPS Control Points 1, 2, 548 - 550, 553, 701 - 710, 714-737, and 739-771, in Leica Geo Office Version 2.0. All other survey control point coordinates listed were established by DOWL Engineers using conventional traverse techniques utilizing a Leica TCRP 1205+ Total Station instrument. These conventional control points were adjusted with a least squares traverse adjustment in Land Development Desktop.
- Control point 552, AKN-C (SACS), was disturbed and reset by others after this survey. Its new position has not been verified, therefore it is not shown or listed herein.
- All background information shown herein was obtained from the King Salmon Airport "Aerial Mapping", as performed by Aeromap utilizing photos acquired on August 23, 1987 and October 2, 1997. This background is for orientation purposes only.
- This survey was completed by DOWL HKM in parts of July, August, September, and October of 2005, January and November of 2006, and July and August of 2007. All dimensions and coordinates shown are in U.S. Survey Feet unless noted otherwise.
- Whether listed or not, all monuments or property markers corners, or accessories which will be disturbed or buried, shall be referenced and re-established in their original position (A.S. 19.10.260) and recorded (A.S. 34.65.040).

RUNWAY 12-30 SURVEY CONTROL POINTS						
POINT	STATION	OFFSET	NORTHING	EASTING	ELEVATION	DESCRIPTION
549	NA	NA	16442.0531	81607.1742	56.96	Set Rbr/AC: KSA-549
765	-4+47.15	648.37 Rt	15863.6786	81623.8761	-	Fd BMon[BLM]:USS4688 L5 C3
550	0+27.16	571.05 Rt	15612.9756	82033.8687	51.69	Set Rbr/AC: KSA-550
701	2+40.12	237.70 Lt	16087.2080	82722.7387	-	Fd ALMon[TECH]:KSAFB
10	11+98.87	161.77 Rt	15159.1227	83189.0463	54.85	Set Rbr/AC: KSA-10
9	18+98.88	161.50 Rt	14702.8262	83719.9023	53.66	Set Rbr/AC: KSA-9
8	28+98.79	161.08 Rt	14051.0552	84478.2034	55.10	Set Rbr/AC: KSA-8
726	30+90.97	1016.01 Lt	14818.0753	85391.5268	-	Fd BMon[BLM]:S23[S24/S26/S25+T17S R45W
12	36+54.78	384.65 Lt	13971.7528	85407.2054	60.20	Set Rbr/AC: KSA-12
7	38+98.56	160.65 Lt	13399.3872	85236.4011	57.97	Set Rbr/AC: KSA-7
13	39+78.16	291.97 Rt	13247.9196	85211.1096	57.19	Set Rbr/AC: KSA-13
757	41+04.44	152.99 Lt	13502.8922	85597.0161	-	Set ALMon[DOWL] RM N 1/16 S26[S25+T17S R45W
553	41+70.85	296.66 Lt	13568.5050	85741.0566	63.02	Fd BMon[NGS]: AKN-B (SACS)

RUNWAY 12-30 VERTICAL CONTROL						
POINT	STATION	OFFSET	NORTHING	EASTING	ELEVATION	DESCRIPTION
702	0+36.50	0.00	16039.7944	82413.3613	56.76	Fd BMon[US Eng Office]:B-6
711	18+85.94	0.06 Lt	14833.7335	83815.4533	58.21	Fd BMon[COE]:KS-10

**MONUMENT LEGEND**

- GOVT SECTION CORNER
- GOVT SURVEY MONUMENT
- NGS CONTROL MONUMENT
- PRIMARY MONUMENT [BRASS/AL CAP]
- CENTERLINE SURVEY MONUMENT
- COE MONUMENT/TEMPORARY BENCH MARK
- PRIMARY CONTROL POINT
- POINT NUMBER



**SURVEYOR CERTIFICATE**

I hereby certify that I am properly Registered and Licensed to practice Land Surveying in the State of Alaska, and that this drawing represents a survey made by me or under my direct supervision, and that the monuments shown hereon actually exist as described, and that all dimensions and other details are correct to the extent shown hereon.

*Stanley E. Ponsness* 2/22/2011  
 Stanley E. Ponsness LS-6714 Date



DATE ORIGINALLY STAMPED 2/22/11

TC	DATE	AS-BUILT	REVISION
6/2014			

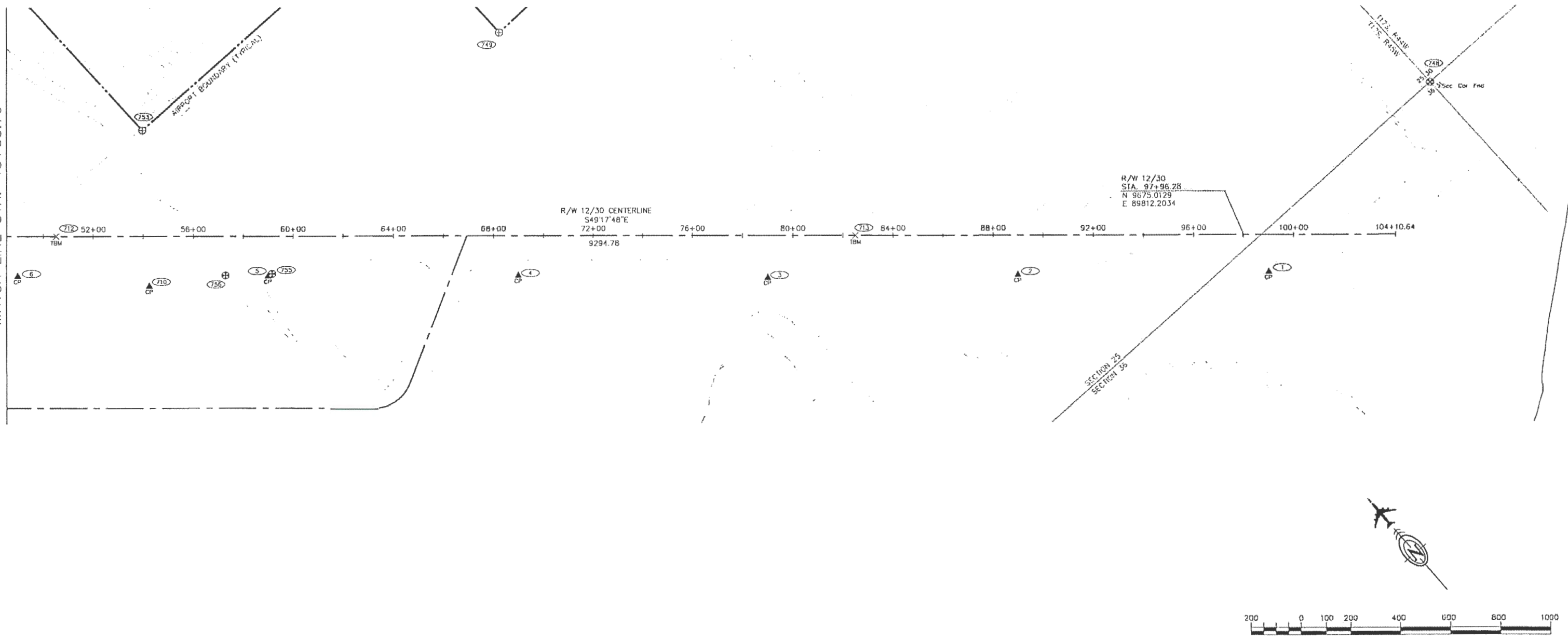
STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION  
 AND PUBLIC FACILITIES  
 CENTRAL REGION

KING SALMON AIRPORT  
 AIRPORT LIGHTING  
 PROJECT No. 52673  
 AIP No. 3-02-0148-12-2011  
 SURVEY CONTROL SHEET

DATE: 2/22/2011  
 SHEET: 5 OF 54  
 AS-BUILT SHEET: 5 OF 57

2/22/2011, 9:48 AM  
 Date Recd: 2/22/2011, 9:48 AM  
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 File Path and Name: S:\Projects\2011\AS-BUILT\KING SALMON AIRPORT LIGHTING.dwg  
 Designed By: WJ  
 Drawn By: CJP/AMW  
 Checked By: BHR

MATCH LINE STA: 48+53.76



RUNWAY 12-30 SURVEY CONTROL POINTS						
POINT	STATION	OFFSET	NORTHING	EASTING	ELEVATION	DESCRIPTION
6	48+98.63	160.22 Rt.	12747.5196	85994.8301	63.20	Set Rbr/AC: KSA-6
753	53+97.78	424.29 Lt.	12865.1222	86754.4155	-	Fd ALMon[ITECH]:KSAFB
710	54+24.82	189.96 Rt.	12374.2429	86367.8156	63.94	Fd Rod/BC[ADOT/PF]:ESKIMO
756	57+28.53	155.72 Rt.	12209.7216	86626.9159	-	Fd ALMon[BLM]:RM CW 1/16 S25-T17S R45W
5	58+98.99	159.78 Rt.	12095.4792	86753.4865	61.99	Set Rbr/AC: KSA-5
755	59+15.17	149.73 Rt.	12092.5418	86772.3051	-	Fd ALMon[BLM]:RM CW 1/16 S25-T17S R45W
749	68+23.91	815.41 Lt.	12231.5846	88090.6259	-	Fd ALMon[ITECH]:KSAFB
4	68+98.50	159.33 Rt.	11443.9960	87511.5042	61.87	Set Rbr/AC: KSA-4
3	78+98.87	168.25 Rt.	10784.8479	88264.0564	63.95	Set Rbr/AC: KSA-3
2	88+99.49	158.35 Rt.	10139.7999	89029.0829	66.67	Set Rbr/AC: AZ-KSA-2
1	99+00.27	148.45 Rt.	9494.6573	89794.2315	68.26	Set Rbr/AC: AZ-KSA-1
748	105+51.17	609.17 Lt.	9644.5254	90781.7524	-	Fd BMon[BLM]:S25 S30 S36 S31-T17S R45W

RUNWAY 12-30 VERTICAL CONTROL						
POINT	STATION	OFFSET	NORTHING	EASTING	ELEVATION	DESCRIPTION
712	50+52.10	0.03 Lt.	12768.9257	86215.6787	65.71	Fd BC[COE]:KS-11
713	82+48.70	0.00	10684.2586	88638.9896	67.89	Fd BC[COE]:KS-12

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*Stanley E. Pansness* 2/22/2011  
 Stanley E. Pansness LS-6714 Date



DATE ORIGINALLY STAMPED 2/22/11

TC	BY	DATE	REVISION

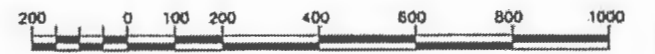
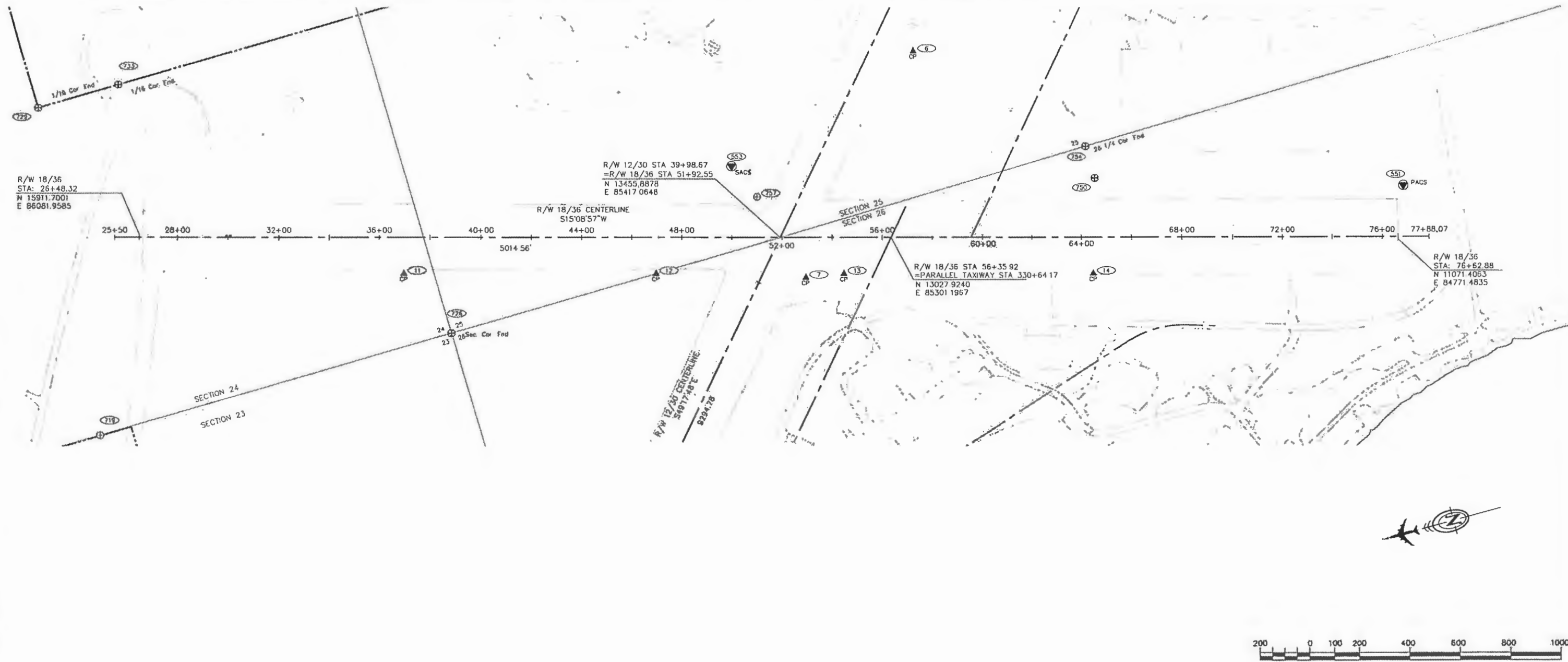
STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION  
 AND PUBLIC FACILITIES  
 CENTRAL REGION

KING SALMON AIRPORT  
 KING SALMON, ALASKA  
 AIRPORT LIGHTING  
 PROJECT No. 52673  
 AIP No. 3-02-0148-12-2011  
 SURVEY CONTROL SHEET

DATE: 2/22/2011  
 SHEET: 6 OF 54  
 AS-BUILT SHEET: 6 OF 57



Date Reviser: 2/22/2011, 8:48 AM  
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 File Path and Name: P:\Projects\060737 SURVEY\ACAD\555-551-554-STAGE 11\DWG.dwg  
 Checked By: BRH  
 Drawn By: CL/AWO  
 Designed By: MJ



**MONUMENT LEGEND**

	GOV'T SECTION CORNER
	GOV'T SURVEY MONUMENT
	NGS CONTROL MONUMENT
	PRIMARY MONUMENT [BRASS/AL CAP]
	CENTERLINE SURVEY MONUMENT
	COE MONUMENT/TEMPORARY BENCH MARK
	PRIMARY CONTROL POINT
	POINT NUMBER

POINT	STATION	OFFSET	NORTHING	EASTING	ELEVATION	DESCRIPTION
729	22+46.26	515.36 Lt.	16165.1096	86684.4801	-	Fd ALMon[BLM]:SW1/16 S24+T17S R45W
719	24+94.20	788.31 Rt.	16266.4762	85361.3231	-	Fd ALMon[TECH]:KSAFB
733	25+63.22	608.46 Lt.	15834.8279	86691.5070	-	Fd ALMon[BLM]:CNSSW 1/256 S24+T17S R45W
11	36+97.06	144.23 Rt.	14937.1014	85668.6677	60.97	Set Rbr/AC: KSA-11
726	38+84.37	380.64 Rt.	14818.0753	85391.5267	-	Fd BCMon[BLM]:S23CS224/S26 S25+T17S R45W
12	46+97.19	144.33 Rt.	13971.7528	85407.2054	60.20	Set Rbr/AC: KSA-12
553	49+99.17	283.30 Lt.	13568.5050	85741.0566	63.11	Fd BCMon[NGS]:AKN-B (SACS)
757	51+00.15	161.41 Lt.	13502.8922	85597.0161	-	Set ALMon[DOWL]:RM N 1/16 S25+T17S R45W
7	52+94.30	159.62 Rt.	13399.3872	85236.4011	57.97	Set Rbr/AC: KSA-7
13	54+47.11	144.45 Rt.	13247.9196	85211.1096	57.19	Set Rbr/AC: KSA-13
6	57+26.19	743.01 Lt.	12747.5196	85994.8301	63.20	Set Rbr/AC: KSA-6
754	64+16.77	361.86 Lt.	12179.6467	85446.4207	-	Fd ALMon[BLM]:1/4 S26+T17S R45W
14	64+47.09	144.64 Rt.	12282.7473	84949.5970	53.78	Set Rbr/AC: KSA-14
750	64+53.43	235.44 Lt.	12177.2969	85314.8149	54.30	Fd ALMon[BLM]:RM 1/4 S26 S25+T17S R45W
551	76+84.22	204.56 Lt.	10997.3450	84963.3550	55.20	Fd BCMon[NGS]:AKN-A (PACS)

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 Stanley E. Pongness LS-6714 Date: 2/22/2011



DATE ORIGINALLY STAMPED 2/22/11

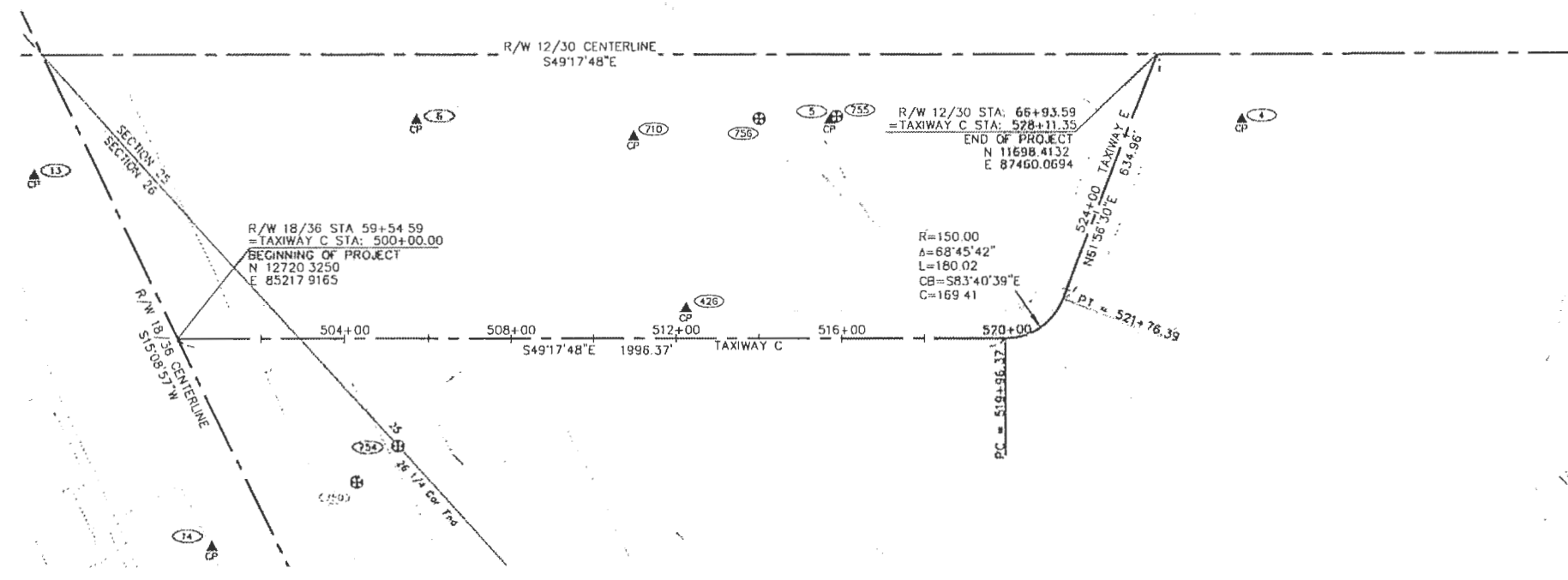
BY	DATE	REVISION
TC	6/2011	AS-BUILT

STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION  
 AND PUBLIC FACILITIES  
 CENTRAL REGION

KING SALMON AIRPORT  
 KING SALMON, ALASKA  
 AIRPORT LIGHTING  
 PROJECT No. 52673  
 AIP No. 3-02-0148-12-2011  
 SURVEY CONTROL SHEET

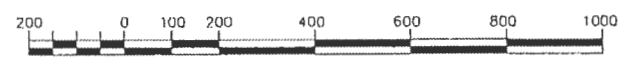
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 SHEET: 7 OF 54  
 AS-BUILT SHEET: 7 OF 57

Date Revised: 2/22/2011, 9:13 AM  
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 File Path: \\s:\projects\2011\2011-02-22\2011-02-22-01.dwg  
 Project Name: King Salmon Airport  
 Project No: 3-02-0148-12-2011  
 Survey Control Sheet: 8 of 54



**MONUMENT LEGEND**

- GOV'T SECTION CORNER
- GOV'T SURVEY MONUMENT
- NGS CONTROL MONUMENT
- PRIMARY MONUMENT [BRASS/AL CAP]
- CENTERLINE SURVEY MONUMENT
- COE MONUMENT/TEMPORARY BENCH MARK
- PRIMARY CONTROL POINT
- POINT NUMBER



TAXIWAY C SURVEY CONTROL POINTS						
POINT	STATION	OFFSET	NORTHING	EASTING	ELEVATION	DESCRIPTION
13	496+50.77	395.53 Lt.	13247.9196	85211.1096	57.19	Set Rbr/AC: KSA-13
14	500+81.95	506.71 Rt.	12282.7473	84949.5970	53.78	Set Rbr/AC: KSA-14
750	504+27.59	348.48 Rt.	12177.2969	85314.8149	-	Fd ALMen[BLM]:RM 1/4 S26[S25-T17S R45W
754	505+25.83	260.87 Rt.	12179.6467	85446.4207	-	Fd ALMen[BLM]:1/4 S26[S25-T17S R45W
6	505+71.24	527.28 Lt.	12747.5196	85994.8301	63.20	Set Rbr/AC: KSA-6
710	510+97.43	487.54 Lt.	12374.2429	86367.8156	63.94	Fd Rod/BC[ADOT/PF]:ESKIMO
426	512+23.37	71.29 Lt.	11976.5623	86191.8373	55.46	Set Rbr/AC: KSA-426
756	514+01.14	531.78 Lt.	12209.7216	86626.9159	-	Fd ALMen[BLM]:RM CW 1/16 S25-T17S R45W
5	515+71.60	527.72 Lt.	12095.4792	86753.4865	61.99	Set Rbr/AC: KSA-5
755	515+87.78	537.77 Lt.	12092.5418	86772.3051	-	Fd ALMen[BLM]:RM CW 1/16 S25-T17S R45W
4	527+37.07	248.71 Rt.	11443.9960	87511.5042	61.87	Set Rbr/AC: KSA-4

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*Stanley E. Pongness* 2/22/2011  
 Stanley E. Pongness LS-6714



DATE ORIGINALLY STAMPED 2/22/11

BY	DATE	REVISION
TC	6/2014	AS-BUILT

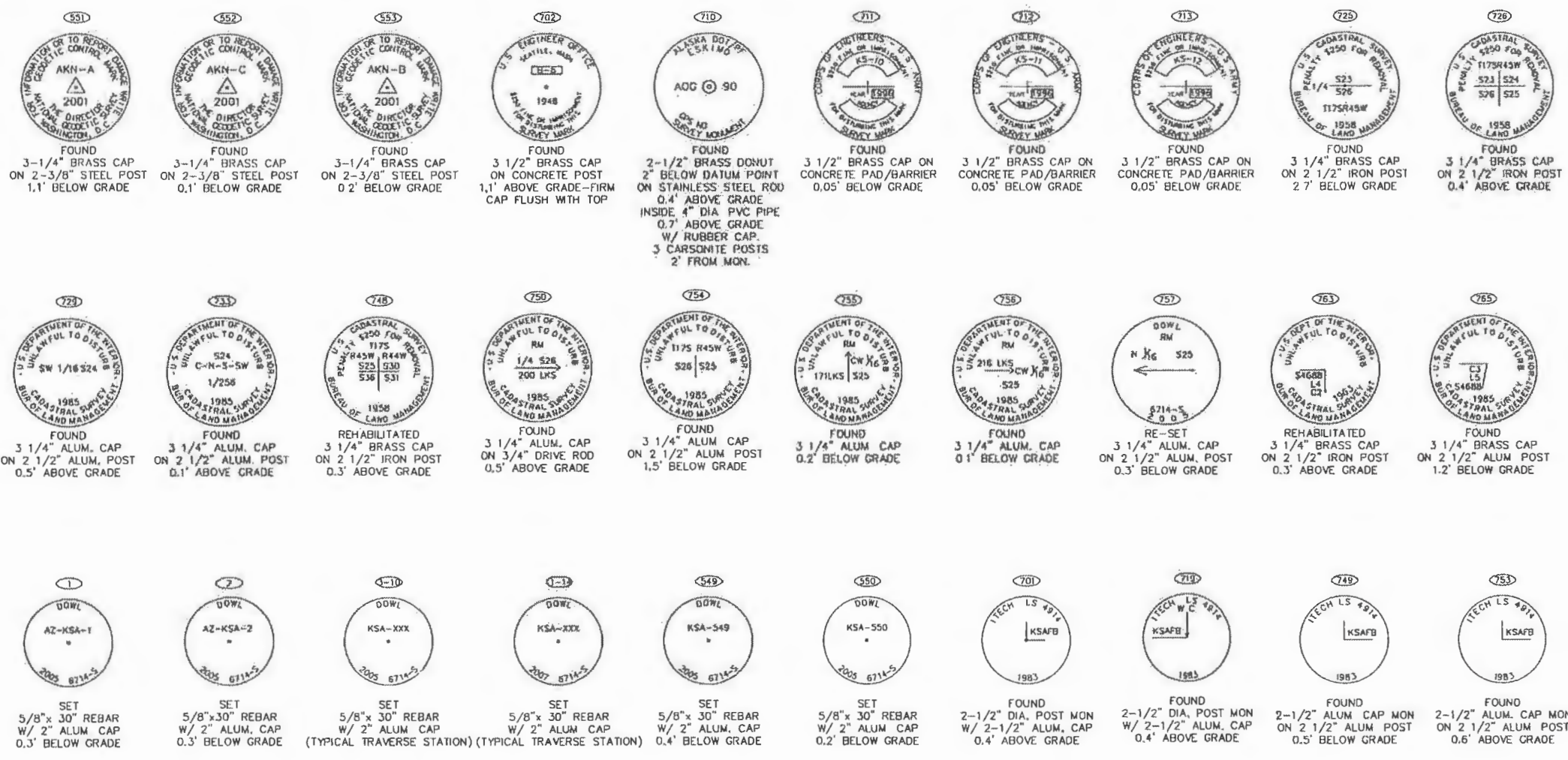
STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION  
 AND PUBLIC FACILITIES  
 CENTRAL REGION

KING SALMON AIRPORT  
 KING SALMON, ALASKA  
 AIRPORT LIGHTING  
 PROJECT No. 52673  
 AIP No. 3-02-0148-12-2011  
 SURVEY CONTROL SHEET

DATE: 2/22/2011  
 SHEET: 8 OF 54  
 AS-BUILT SHEET: 8 OF 57



Date Revised: 2/22/2011, 9:50 AM  
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 Designed By: MJ  
 Drawn By: CLP/AVD  
 Checked By: BRH  
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 SHEET-9  
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*Stanley E. Ponsness* 2/22/2011  
 Stanley E. Ponsness LS-6714 Date



DATE ORIGINALLY  
 STAMPED 2/22/11

BY	DATE	REVISION
TE	6/20/11	AS-BUILT

STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION  
 AND PUBLIC FACILITIES  
 CENTRAL REGION

KING SALMON AIRPORT  
 KING SALMON, ALASKA  
 AIRPORT LIGHTING  
 PROJECT No. 52673  
 AIP No. 3-02-0148-12-2011  
 SURVEY CONTROL SHEET

DATE: 2/22/2011  
 SHEET: 9 OF 54  
 AS-BUILT SHEET: 9 OF 57



CONSTRUCTION COMPLETION SCHEDULE

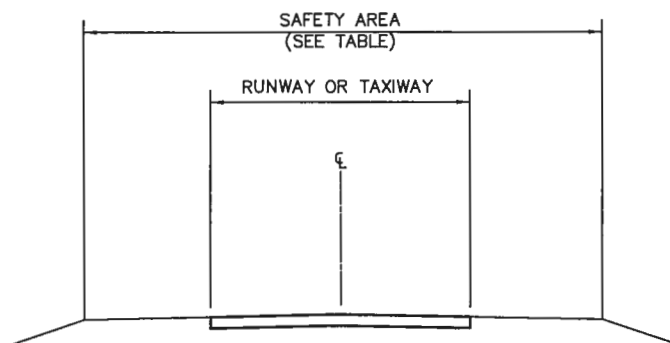
WORK AREA	WORK TO BE COMPLETED	COMPLETION DATE	RESTRICTION	CLOSURES	NAVAID/VISUAL AID IMPACTS	HAZARD MARKER BARRIER LOCATION	NOTES
A	GLIDE SLOPE AND LOCALIZER CRITICAL AREA INSTALL LIGHTING AND PAVE SHOULDERS	10/31/2011 9/15/2011	WORK MUST BE COMPLETED WITHIN 7 CALENDAR DAYS IN EACH CRITICAL AREA	NONE	GLIDE SLOPE AND LOCALIZER WILL BE TEMPORARILY DISABLED	AS DIRECTED BY THE ENGINEER	WORK IN CRITICAL AREAS REQUIRES 45 DAY ADVANCE NOTIFICATION. SEE SPECIFICATIONS & SAFETY PLAN NARRATIVE
B	R/W 12-30 INSTALL LIGHTING AND PAVE SHOULDERS	10/31/2011 9/15/2011	ONLY 1000 FEET OF TRENCH MAY BE OPEN AT ONE TIME NOTAMS FOR CONSTRUCTION ACTIVITIES WILL BE ALLOWED FOR 3000 FEET OF RUNWAY SHOULDER AT A TIME T/W M, T/W P AND R/W 12-30 INTERSECTION SHALL NOT REMAIN UNPAVED FOR MORE THAN 3 CALENDAR DAYS	NONE	NONE	AS DIRECTED BY THE ENGINEER	ALL TRENCHES AND EXCAVATIONS IN SHOULDERS MUST BE BACKFILLED TO WITHIN 3 INCHES OF THE PRE-EXISTING SHOULDER ELEVATIONS AND GRADED TO MATCH THE PRE-EXISTING SHOULDER SLOPES AT THE END OF EACH CONSTRUCTION SHIFT SEE NOTE R FOR LIGHTING REQUIREMENTS
C	R/W 12-30 BLAST PAD PAVE AND STRIPE BLAST PAD	10/31/2011 9/15/2011	WORK MUST BE COMPLETED WITHIN 2 CALENDAR DAYS IN EACH CRITICAL AREA	TEMPORARY CLOSURE OF R/W 12-30 WEST OF RUNWAY INTERSECTIONS	NONE	AS DIRECTED BY THE ENGINEER	NONE
D	R/W 18-36 AND TAXIWAYS INSTALL LIGHTING & SUPPLEMENTARY WIND CONES, PAVE SHOULDERS	10/31/2011 9/15/2011	ONLY 1000 FEET OF TRENCH MAY BE OPEN AT ONE TIME NOTAMS FOR CONSTRUCTION ACTIVITIES WILL ALLOW PARTIAL CLOSURES OF RUNWAYS AND TAXIWAYS	LIMITED HALF WIDTH/LENGTH CLOSURES OF R/W 18-36	NONE	AS DIRECTED BY THE ENGINEER	R/W 18-36 & TAXIWAY SHOULDERS MAY REMAIN UNPAVED UNTIL 2012, SEE NOTE U. ALL TRENCHES AND EXCAVATIONS IN SHOULDERS MUST BE BACKFILLED TO WITHIN 3 INCHES OF THE PRE-EXISTING SHOULDER ELEVATIONS AND GRADED TO MATCH THE PRE-EXISTING SHOULDER SLOPES AT THE END OF EACH CONSTRUCTION SHIFT SEE NOTE R FOR LIGHTING REQUIREMENTS
E	ELECTRICAL EQUIPMENT AND STANDBY GENERATOR ENCLOSURE CONSTRUCT ELECTRICAL EQUIPMENT ENCLOSURE AND INSTALL ELECTRICAL EQUIPMENT CONSTRUCT STANDBY GENERATOR ENCLOSURE AND INSTALL GENERATOR	10/31/2011 2012 10/31/2012	NONE	NONE	NONE	NONE	CONTINUOUS POWER MUST BE MAINTAINED THROUGHOUT CONSTRUCTION. CONTINUOUS POWER MUST BE MAINTAINED THROUGHOUT CONSTRUCTION.

NOTES

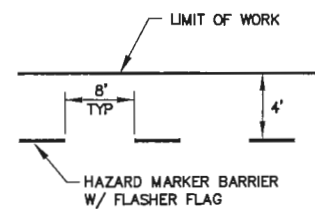
- SEE APPENDIX D FOR THE SAFETY PLAN NARRATIVE AND SECTION 80 OF THE SPECIFICATIONS FOR LIMITATIONS AND OPERATIONAL SAFETY CONCERNS.
- THE CONTRACTOR WILL BE REQUIRED TO COORDINATE WITH THE ENGINEER AND AIRPORT MANAGER TO ISSUE NOTAMS REGARDING CURRENT AIRPORT OPERATIONS AND RESTRICTIONS. THE CONTRACTOR WILL BE REQUIRED TO ESTABLISH A POINT OF CONTACT WITH EACH OF THE SCHEDULED CARRIERS AND TO FAX UPDATED OPERATIONS INFORMATION TO THE CONTACTS EACH WEEK AS CHANGES OCCUR. THE UPDATES WILL INCLUDE A SKETCH OF AIRPORT OPERATION AREAS AND WORK AREAS.
- WORK OUTSIDE THE LIMITS OF THE RUNWAY SAFETY AREA AND TAXIWAY SAFETY AREA MAY BE PERFORMED AT ANY TIME WITHOUT CLOSURES, (SEE DETAIL 1/10). WORK WITHIN THE SAFETY AREAS AND WORK AFFECTING OPERATIONS SHALL NOT BEGIN UNTIL AUTHORIZED BY THE ENGINEER.
- RUNWAY CLOSURES CAN BE PROPOSED TO THE ENGINEER AND PUT INTO AFFECT ONLY WITH THE APPROVAL OF THE ENGINEER AND AIRPORT MANAGER.
- MAINTAIN AIRCRAFT ACCESS TO THE APRONS, TAXIWAYS, AND RUNWAYS DURING ALL STAGES OF WORK. GUIDE AIRCRAFT THROUGH WORK AREAS AS REQUIRED.
- PROVIDE TEMPORARY LIGHTING AS REQUIRED TO MAINTAIN OPERATIONAL R/W AND T/W LIGHTING SYSTEMS BETWEEN EVENING CIVIL TWILIGHT AND MORNING CIVIL TWILIGHT AND DURING INSTRUMENT FLIGHT RULES (IFR) WEATHER CONDITIONS. BOTH EDGES AND ENDS OF THE RUNWAYS SHALL HAVE OPERATIONAL LIGHTING. EXISTING LIGHTS MAY BE USED AS APPLICABLE.
- PAPIS AND APPROACH LIGHTING SHALL REMAIN OPERATIONAL DURING CONSTRUCTION.
- LIMITED OUTAGES ARE EXPECTED WHILE TRANSFERRING THE POWER SUPPLY FROM THE EXISTING ELECTRICAL EQUIPMENT ENCLOSURE TO THE NEW. OUTAGES WILL ONLY BE ALLOWED BETWEEN MORNING CIVIL TWILIGHT AND 3 HOURS PRIOR TO EVENING CIVIL TWILIGHT. COORDINATE WITH THE ENGINEER, FAA AND NAKNEK ELECTRIC ASSOCIATION FOR ALL PLANNED OUTAGES.
- STORAGE OF EQUIPMENT OR MATERIALS ON THE RUNWAYS, TAXIWAYS, APRONS, OR SAFETY AREAS WILL NOT BE ALLOWED.
- ALL UNPAVED SHOULDERS MUST BE GRADED TO MATCH THE PRE-EXISTING SHOULDER ELEVATIONS AND SLOPES PRIOR TO WINTER SHUTDOWN.

II. CONTACT USAF THROUGH THE PROJECT ENGINEER TO LOCATE ANY BAK POWER CABLES BEFORE EXCAVATION.

7/01/2014, 4:04 PM  
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 File Path and Name:  
 DOW FILE No: 234-26  
 Designed By:  
 Drawn By:  
 Checked By:  
 BRH

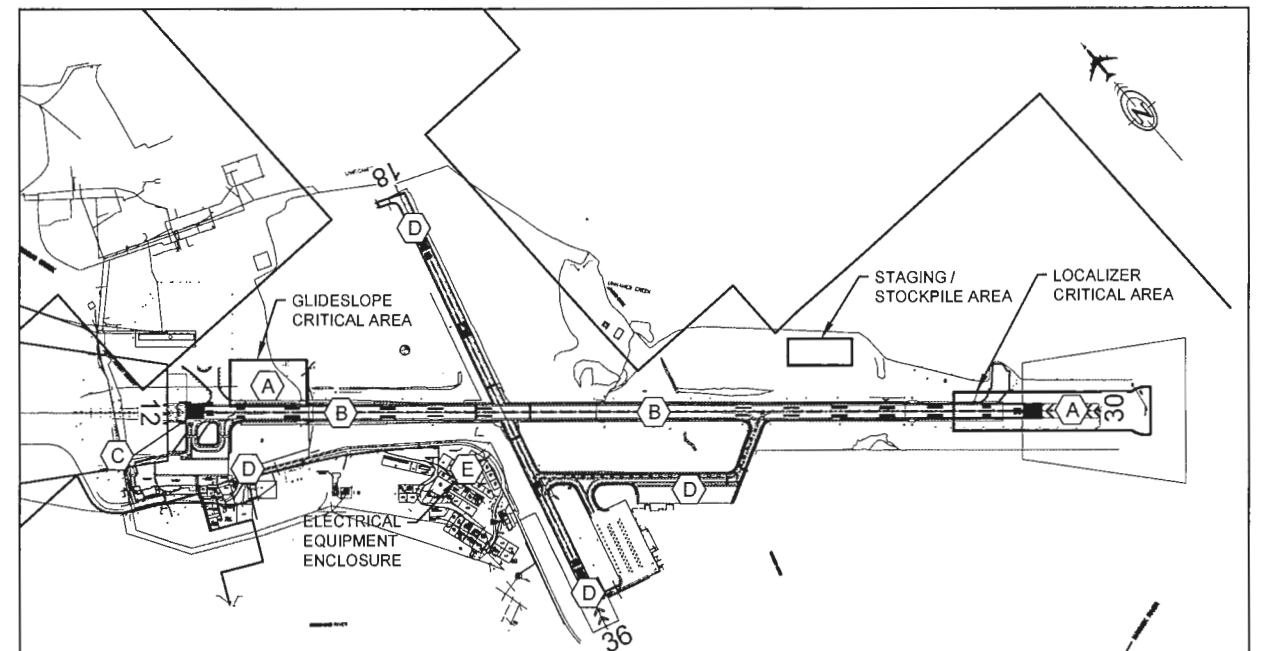


1 SAFETY AREA DETAIL  
10 NTS

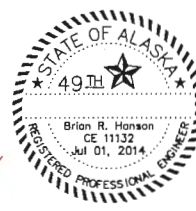


2 HAZARD MARKER BARRIER LAYOUT  
10 NTS

LOCATION	SAFETY AREA TOTAL WIDTH
R/W 12/30	500 FT
R/W 18/36	300 FT
T/W A	118 FT
T/W B	118 FT
T/W C	118 FT
T/W D	118 FT
T/W E	118 FT
T/W M	118 FT
T/W N	79 FT



3 WORK AREA DETAIL  
10 NTS



DATE ORIGINALLY STAMPED 2/18/11

BY	DATE	REVISION
BRH	3/17/2011	APPENDUM A
BRH	6/2/2014	AS-BUILT

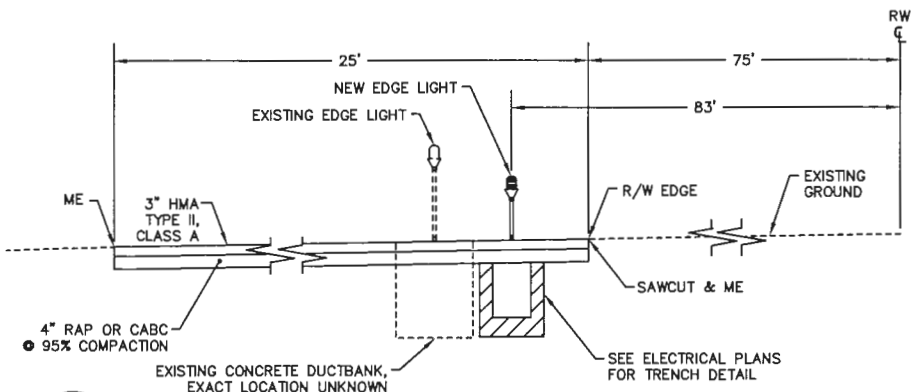
STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION  
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CENTRAL REGION

KING SALMON AIRPORT  
KING SALMON, ALASKA  
AIRPORT LIGHTING  
PROJECT No. 52673  
AIP No. 3-02-0148-12-2011  
CONSTRUCTION STAGING AND SAFETY PLAN,  
NOTES, AND DETAILS

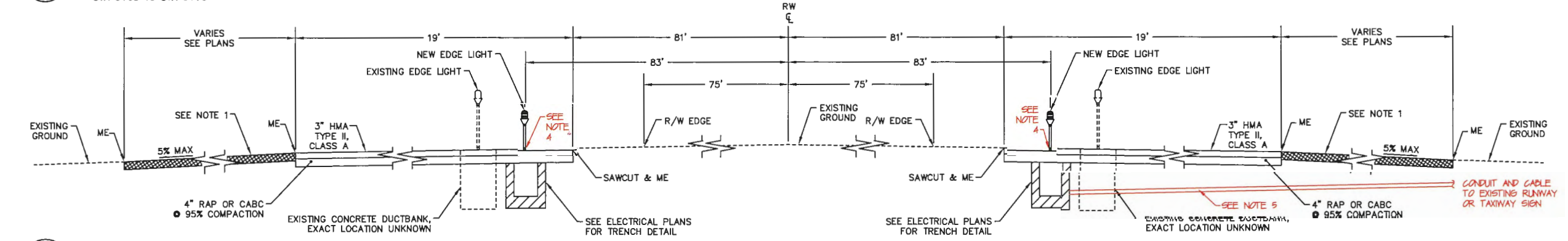
DATE: 2/22/2011  
SHEET: 10 OF 54  
AS-BUILT SHEET: 10 OF 57



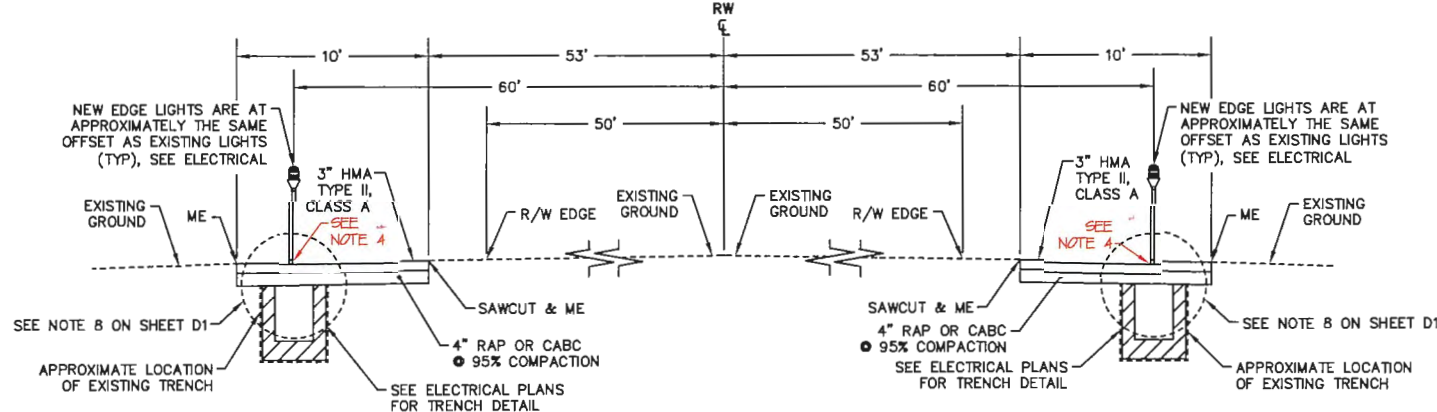
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 Checked By: BRH  
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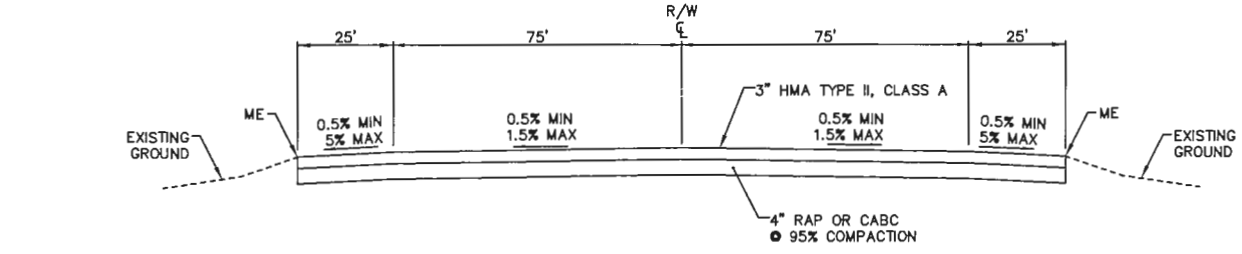
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RUNWAY 12-30 SHOULDER PAVING  
NTS  
STA 6+95 TO STA 9+75



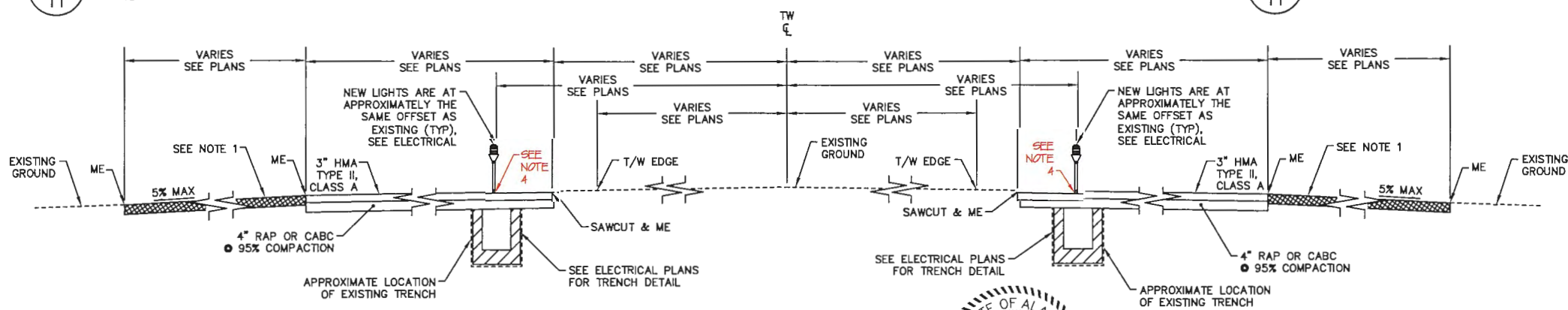
**2**  
11  
RUNWAY 12-30 SHOULDER PAVING  
NTS  
STA 11+21 TO STA 92+00



**3**  
11  
RUNWAY 18-36 SHOULDER PAVING  
NTS



**4**  
11  
RUNWAY 12 BLAST PAD PAVING  
NTS



**5**  
11  
TAXIWAY SHOULDER PAVING  
NTS

- NOTES**
- PROCESS EXISTING ASPHALT PAVEMENT IN PLACE ACCORDING TO P-161 AND GRADE TO MATCH PRE-EXISTING SLOPES. COMPACT MATERIAL TO 95%.
  - ALL RAP MATERIAL MUST BE USED BEFORE CABG CAN BE SUBSTITUTED.
  - ESTIMATED PAVEMENT THICKNESS VARIES BETWEEN 1.75" AND 6". SEE SUBSURFACE EXPLORATION REPORT PREPARED BY DOWL ENGINEERS DATED APRIL 2008 FOR PAVEMENT CORING DATA.
  - SHIMS RANGING FROM 1/8" TO 1-1/2" USED AS REQUIRED TO BRING LIGHT TO PROPER ELEVATION.
  - ALL 2" CONDUIT RUNS TO EXISTING SIGNS ARE REPLACE WITH 20 FEET OF NEW 2" CONDUIT AND COUPLED TO EXISTING FOR A DISTANCE OUTSIDE OF THE PAVED SHOULDER.



DATE ORIGINALLY STAMPED 2/13/11

NO.	DATE	AS-BUILT	REVISION
1	6/2014	AS-BUILT	

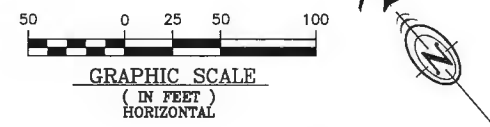
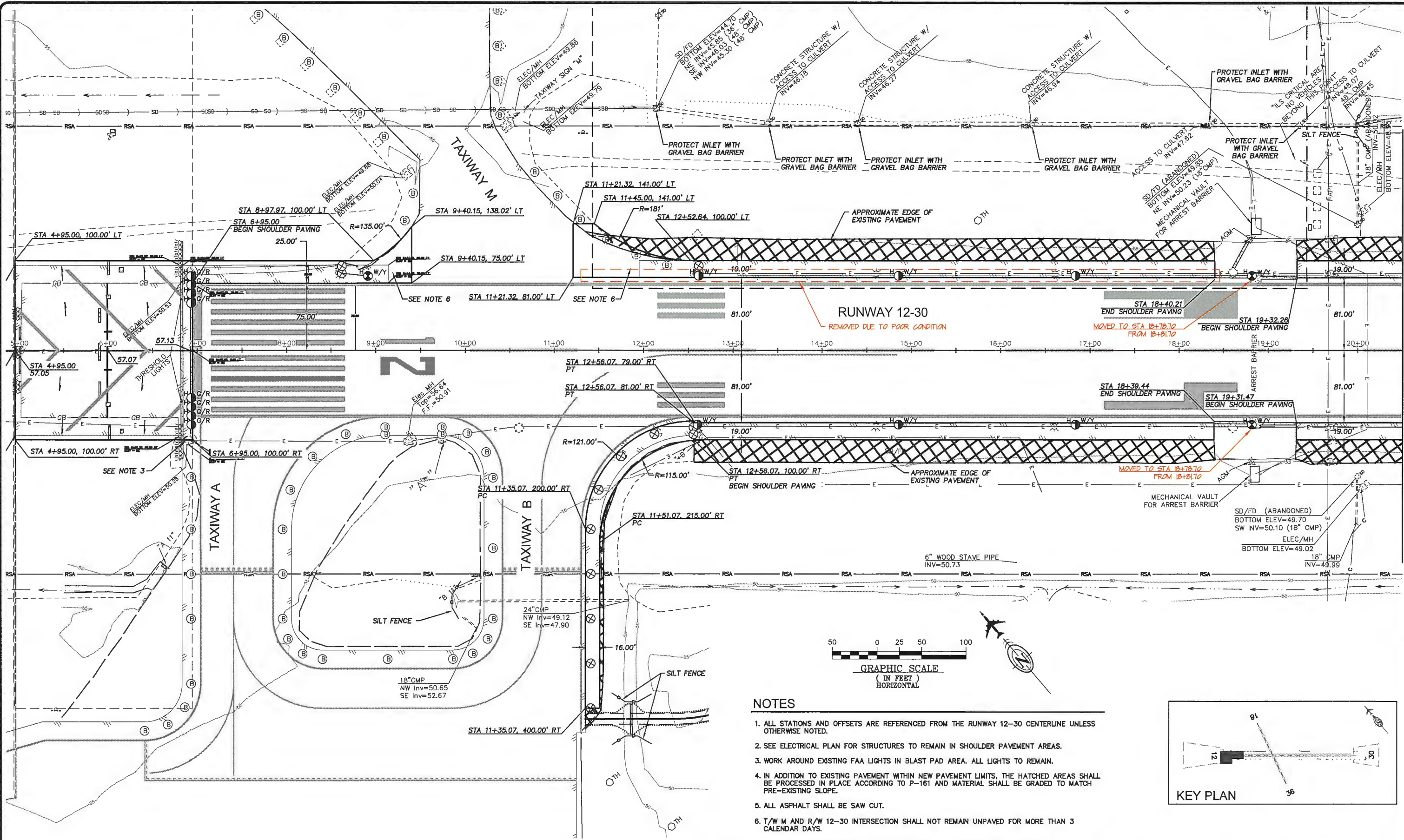
STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION  
AND PUBLIC FACILITIES  
CENTRAL REGION

KING SALMON AIRPORT  
AIRPORT LIGHTING  
PROJECT No. 52673  
AIP No. 3-02-0148-12-2011  
TYPICAL SECTIONS

DATE: 2/22/2011  
SHEET: 11 OF 54  
AS-BUILT SHEET: 11 OF 57

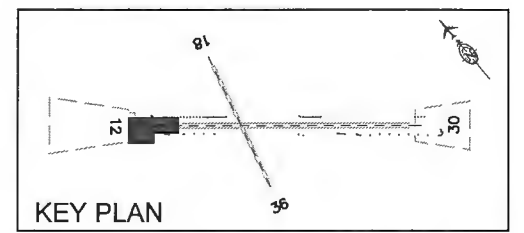


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 Script File: P&P  
 DWG File No: 234-26  
 Designed By: MLI  
 Drawn By: BRH  
 Checked By: BRH



**NOTES**

1. ALL STATIONS AND OFFSETS ARE REFERENCED FROM THE RUNWAY 12-30 CENTERLINE UNLESS OTHERWISE NOTED.
2. SEE ELECTRICAL PLAN FOR STRUCTURES TO REMAIN IN SHOULDER PAVEMENT AREAS.
3. WORK AROUND EXISTING FAA LIGHTS IN BLAST PAD AREA. ALL LIGHTS TO REMAIN.
4. IN ADDITION TO EXISTING PAVEMENT WITHIN NEW PAVEMENT LIMITS, THE HATCHED AREAS SHALL BE PROCESSED IN PLACE ACCORDING TO P-161 AND MATERIAL SHALL BE GRADED TO MATCH PRE-EXISTING SLOPE.
5. ALL ASPHALT SHALL BE SAW CUT.
6. T/W M AND R/W 12-30 INTERSECTION SHALL NOT REMAIN UNPAVED FOR MORE THAN 3 CALENDAR DAYS.
7. GRAVEL BAG BARRIERS SHALL BE CONSTRUCTED OUT OF GEOTEXTILE FABRIC (NOT BURLAP) AND SHALL BE FILLED WITH 0.75 INCH ROCK OR 0.25 INCH PEA GRAVEL. A MINIMUM OF 3 LAYERS SHALL BE PLACED AROUND INLET. GRAVEL BAG BARRIERS ARE SUBSIDIARY TO P-157a.



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PLAN PREPARED BY DOWL HKM

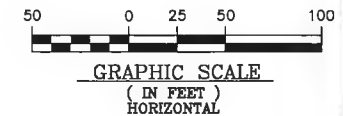
BY	DATE	REVISION
TC	6/2014	AS-BUILT

STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION  
 AND PUBLIC FACILITIES  
 CENTRAL REGION

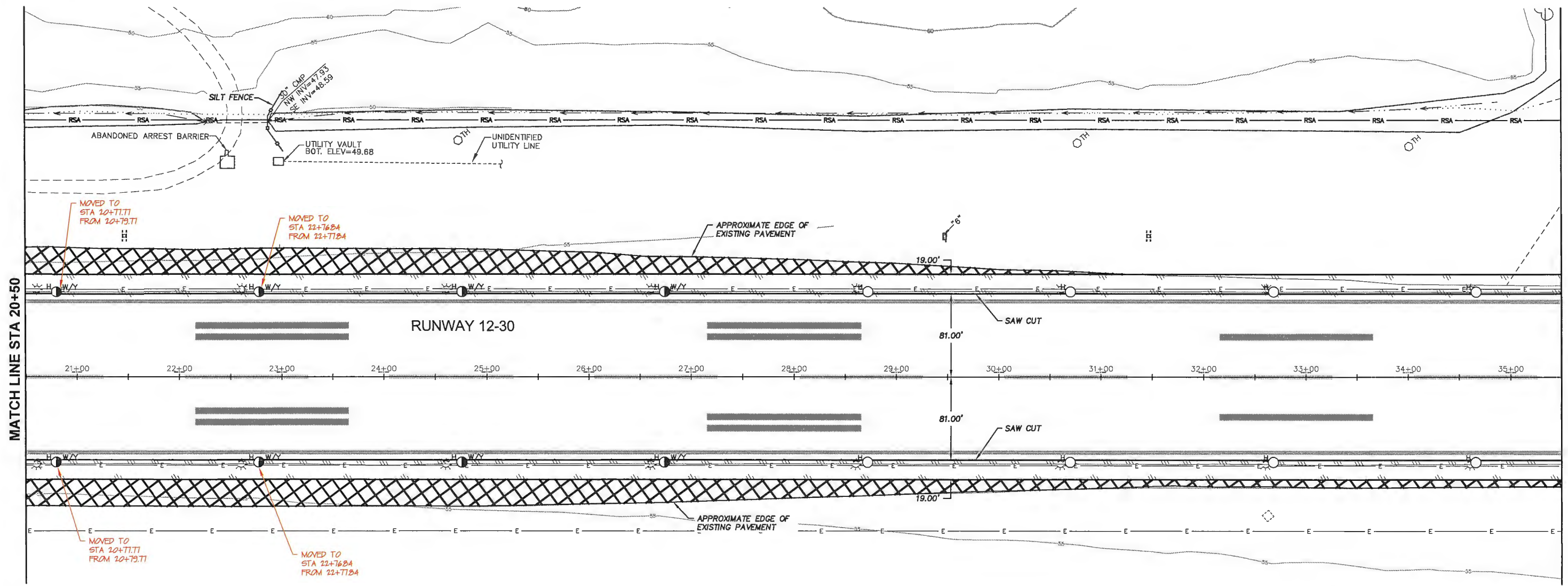
KING SALMON AIRPORT  
 AIRPORT LIGHTING  
 PROJECT No. 52673  
 AIP No. 3-02-0148-12-2011  
 RUNWAY 12-30 AND TAXIWAY B PLAN  
 STA 5+00 TO STA 20+50

DATE: 2/22/2011  
 SHEET: 12 OF 54  
 AS-BUILT SHEET: 12 OF 57





Date Revised: 7/03/2014, 3:44 PM  
 Layout Name: 13-172-30  
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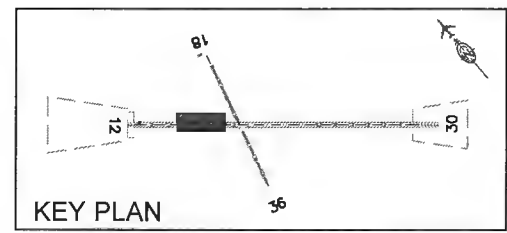


MOVED TO STA 20+71.71 FROM 20+79.71

MOVED TO STA 22+76.84 FROM 22+71.84

MOVED TO STA 20+71.71 FROM 20+79.71

MOVED TO STA 22+76.84 FROM 22+71.84



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PLAN PREPARED BY DOWL HKM

BY	DATE	REVISION
BRH	6/2014	AS-BUILT

STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION  
 AND PUBLIC FACILITIES  
 CENTRAL REGION

KING SALMON AIRPORT  
 KING SALMON, ALASKA  
 AIRPORT LIGHTING  
 PROJECT No. 52673  
 AIP No. 3-02-0148-12-2011  
 RUNWAY 12-30 PLAN  
 STA 20+50 TO STA 35+50

DATE: 2/22/2011  
 SHEET: 13 OF 54  
 AS-BUILT SHEET: 13 OF 57



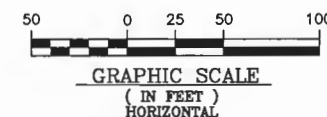
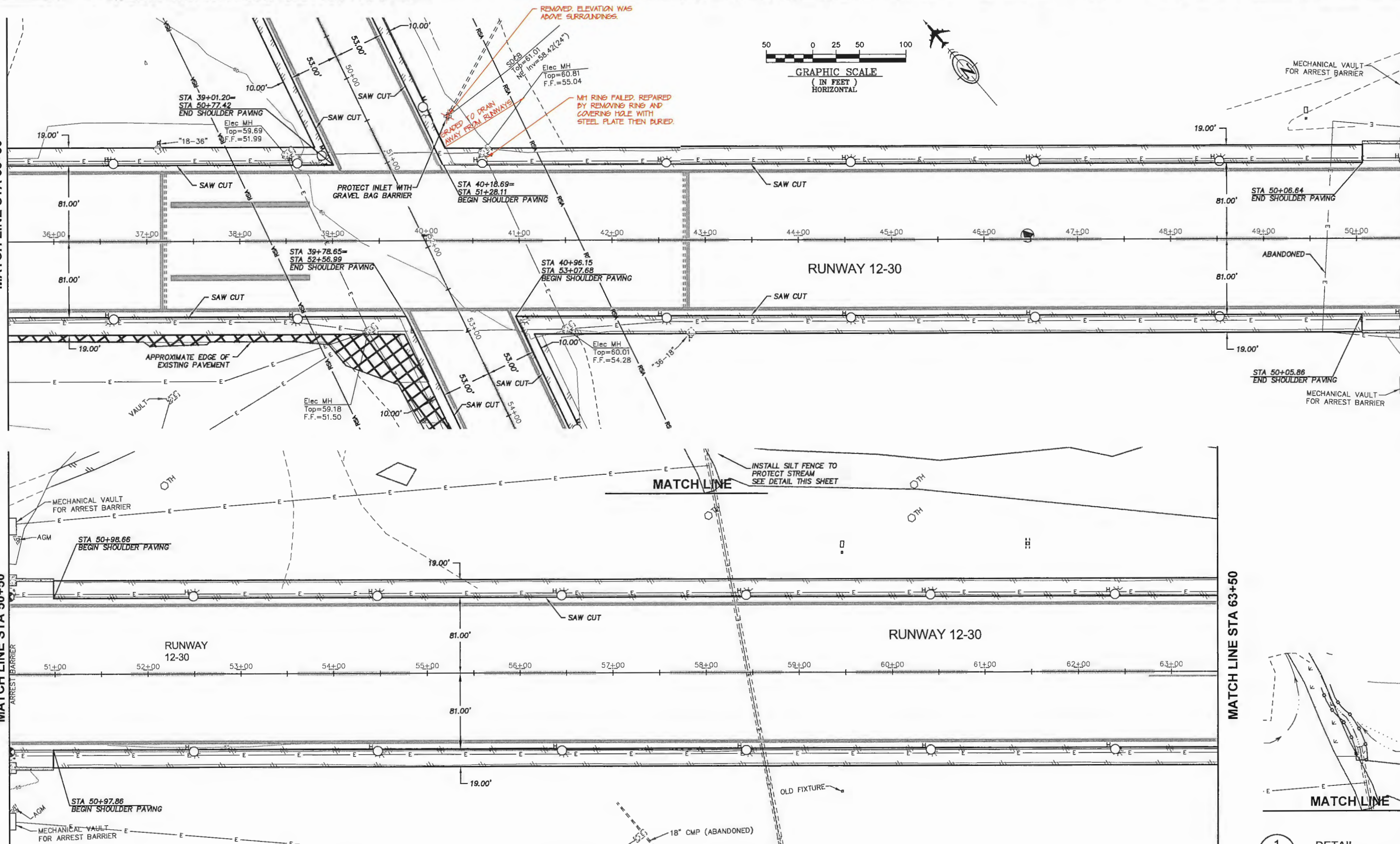
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 CHECKED BY: BRH  
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 DATE REVISION: 6/2014 AS-BUILT  
 DATE: 2/22/2011

MATCH LINE STA 35+50

MATCH LINE STA 50+50

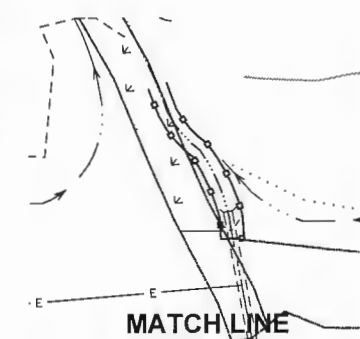
MATCH LINE STA 63+50

MATCH LINE STA 50+50

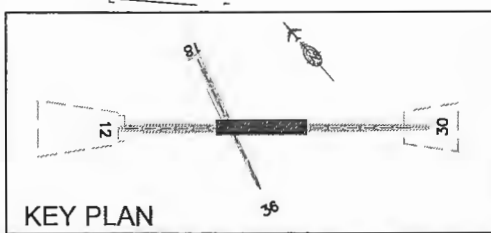


REMOVED ELEVATION WAS ABOVE SURROUNDINGS.  
 M1 RING FAILED, REPAIRED BY REMOVING RING AND COVERING HOLE WITH STEEL PLATE THEN PURED.  
 GRADDED TO DRAIN AWAY FROM RUNWAYS

INSTALL SILT FENCE TO PROTECT STREAM SEE DETAIL THIS SHEET



1  
14  
DETAIL  
NTS



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NO.	DATE	REVISION
1	6/2014	AS-BUILT

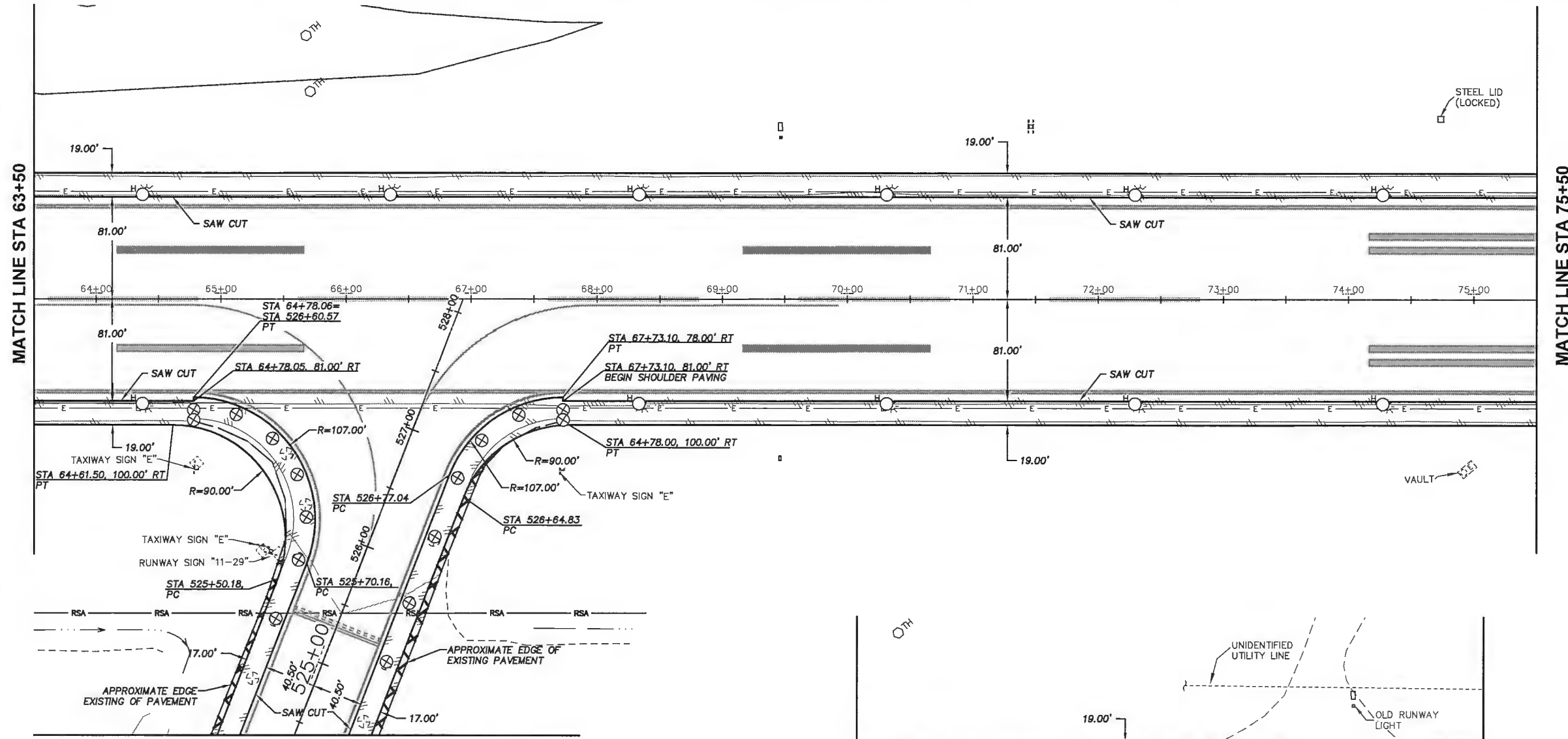
STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION  
 AND PUBLIC FACILITIES  
 CENTRAL REGION

KING SALMON AIRPORT  
 AIRPORT LIGHTING  
 PROJECT No. 52673  
 AIP No. 3-02-0148-12-2011  
 RUNWAY 12-30 PLAN  
 STA 35+50 TO STA 63+50

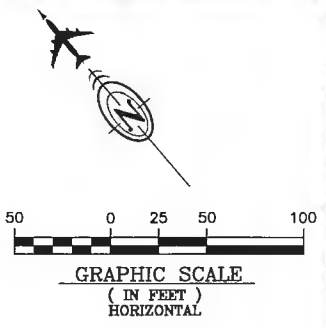
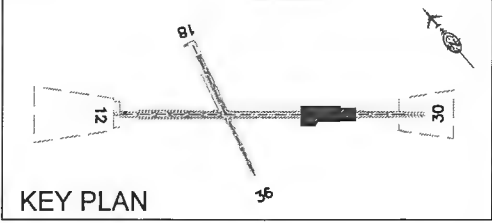
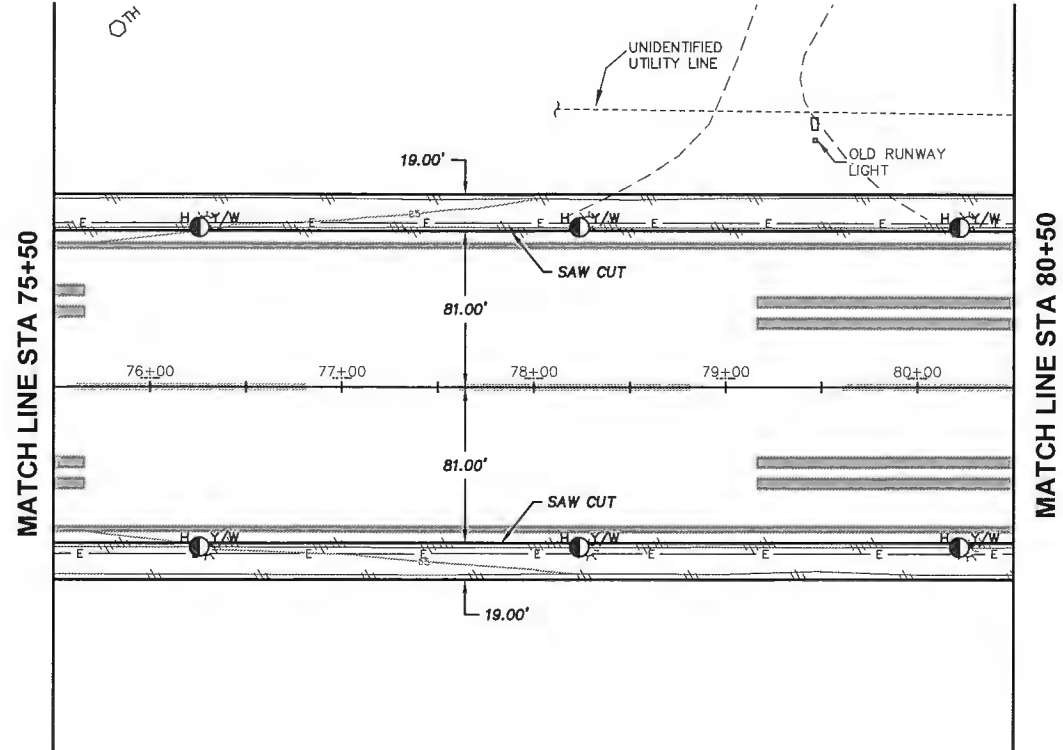
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 SHEET: 14 OF 54  
 AS-BUILT SHEET: 14 OF 57



Date Revised: 7/03/2014, 3:44 PM  
 Layout Name: 15-12-30  
 File Path and Name: W:\Projects\King Salmon\Lighting\2011\Submittal\Draw-AK-Airport\_Lighting.dwg  
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 Designed By: MLI  
 Drawn By: ROL  
 Checked By: BRH  
 SUBMIT FILE:  
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MATCH LINE - SHEET 20



DATE ORIGINALLY STAMPED 2/18/11

BY	DATE	REVISION
RL	6/2014	AS-BUILT

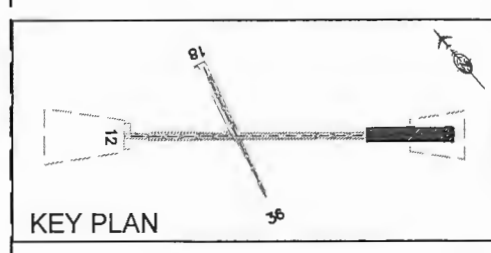
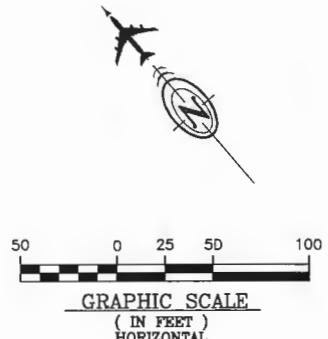
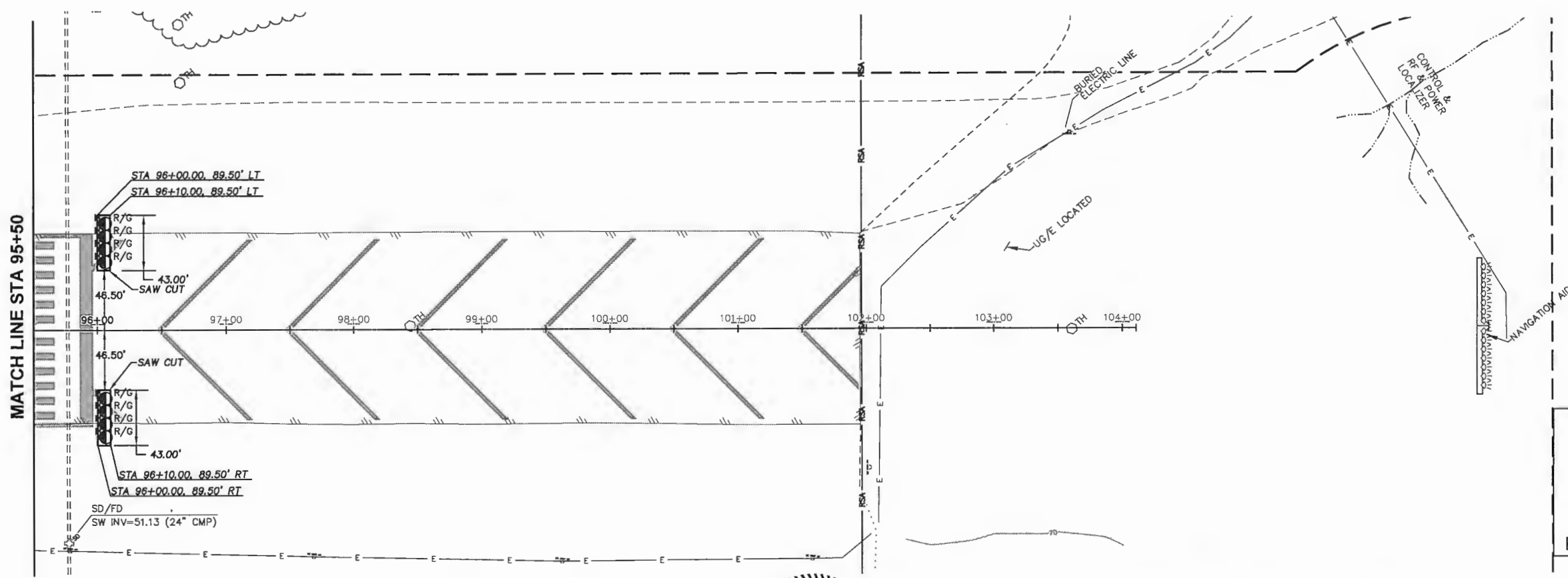
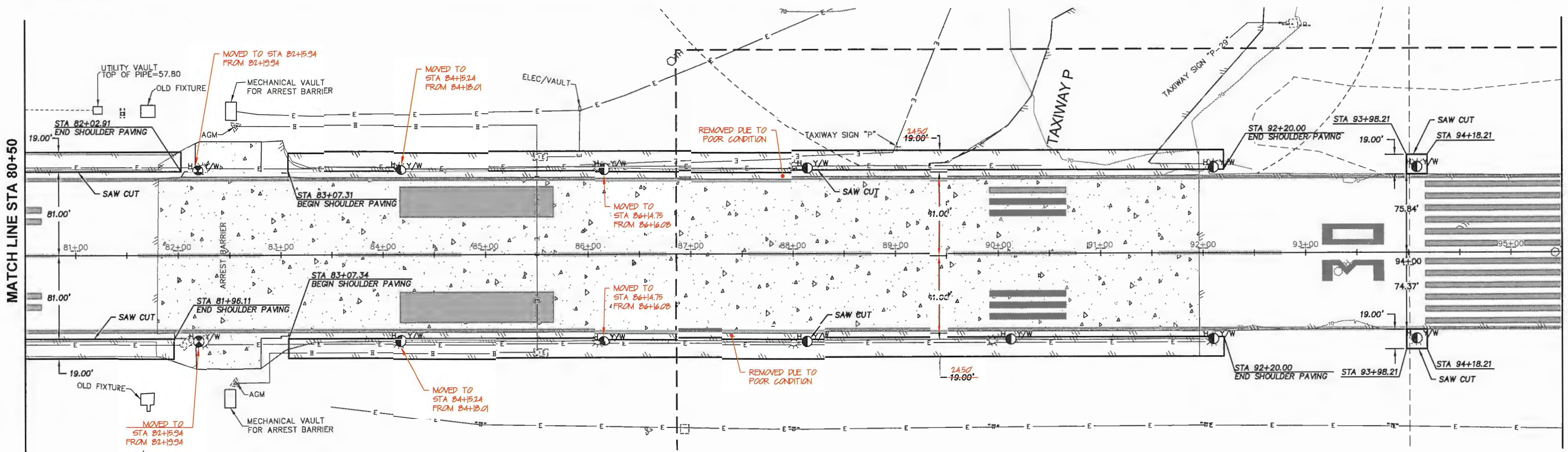
STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION  
 AND PUBLIC FACILITIES  
 CENTRAL REGION

KING SALMON AIRPORT  
 KING SALMON, ALASKA  
 AIRPORT LIGHTING  
 PROJECT No. 52673  
 AIP No. 3-02-0148-12-2011  
 RUNWAY 12-30 PLAN  
 STA 63+50 TO STA 80+50

DATE: 2/22/2011  
 SHEET: 15 OF 54  
 AS-BUILT SHEET: 15 OF 57

PLAN PREPARED BY DOWL HKM

Date Revised: 7/02/2014, 3:44 PM  
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 SCRIPT FILE:  
 Designed By: MLJ  
 Drawn By: RDL  
 Checked By: BRH



DATE ORIGINALLY STAMPED 2/18/11

NO.	DATE	REVISION
1	6/2014	AS-BUILT

STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION  
 AND PUBLIC FACILITIES  
 CENTRAL REGION

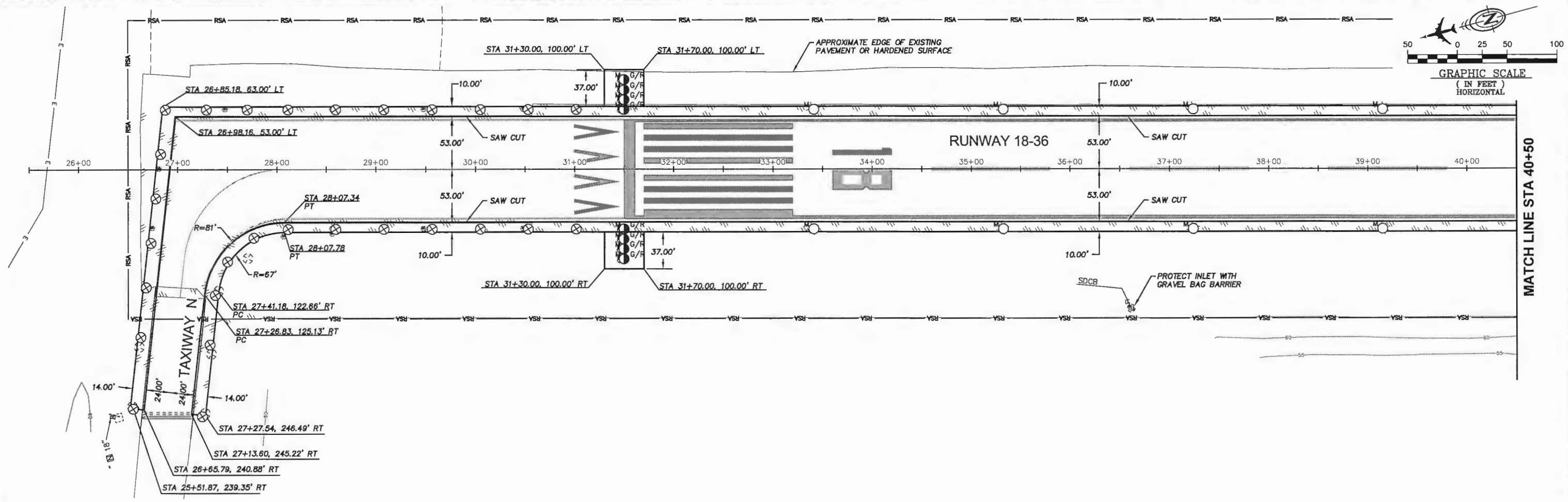
KING SALMON AIRPORT  
 KING SALMON, ALASKA  
 AIRPORT LIGHTING  
 PROJECT No. 52673  
 AIP No. 3-02-0148-12-2011  
 RUNWAY 12-30 PLAN  
 STA 80+50 TO STA 104+00

DATE: 2/22/2011  
 SHEET: 16 OF 54  
 AS-BUILT SHEET: 16 OF 57

PLAN PREPARED BY DOWL HKM

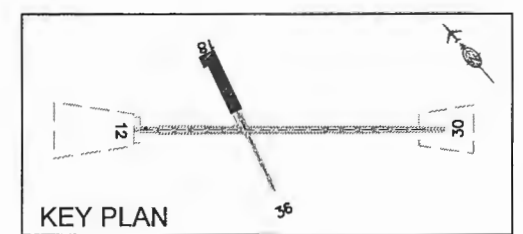
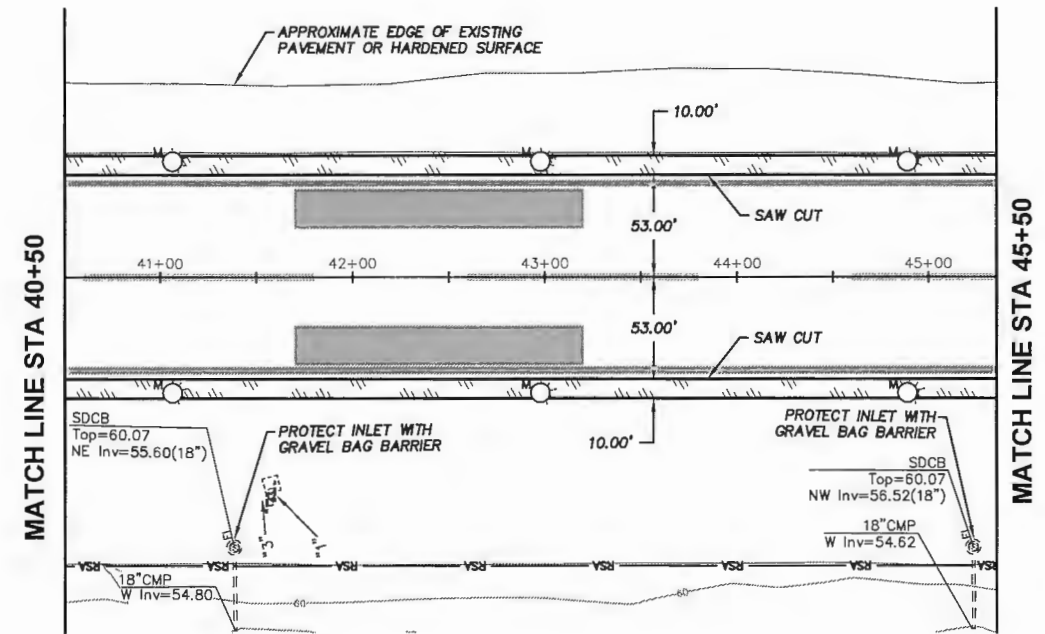


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 Designed By: MLI  
 Drawn By: RDL  
 Checked By: BRH  
 DOW FILE No. 234-26  
 SCHEMATIC FILE:



**NOTES**

1. ALL STATIONS AND OFFSETS ARE REFERENCED FROM THE RUNWAY 18-36 CENTERLINE UNLESS OTHERWISE NOTED.
2. SEE ELECTRICAL PLAN FOR STRUCTURES TO REMAIN IN SHOULDER PAVEMENT AREAS.
3. IN ADDITION TO EXISTING PAVEMENT WITHIN NEW PAVEMENT LIMITS, THE HATCHED AREAS SHALL BE PROCESSED IN PLACE ACCORDING TO P-161 AND MATERIAL SHALL BE GRADED TO MATCH PRE-EXISTING SLOPE.
4. ALL ASPHALT OR HARDENED SURFACES SHALL BE SAW CUT.
5. GRAVEL BAG BARRIERS SHALL BE CONSTRUCTED OUT OF GEOTEXTILE FABRIC (NOT BURLAP) AND SHALL BE FILLED WITH 0.75 INCH ROCK OR 0.25 INCH PEA GRAVEL. A MINIMUM OF 3 LAYERS SHALL BE PLACED AROUND INLET. GRAVEL BAG BARRIERS ARE SUBSIDIARY TO P-157g.



PLAN PREPARED BY DOWL HKM

DATE ORIGINALLY STAMPED 2/18/11

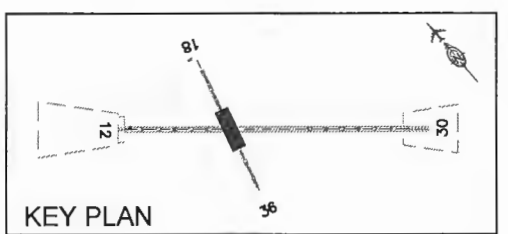
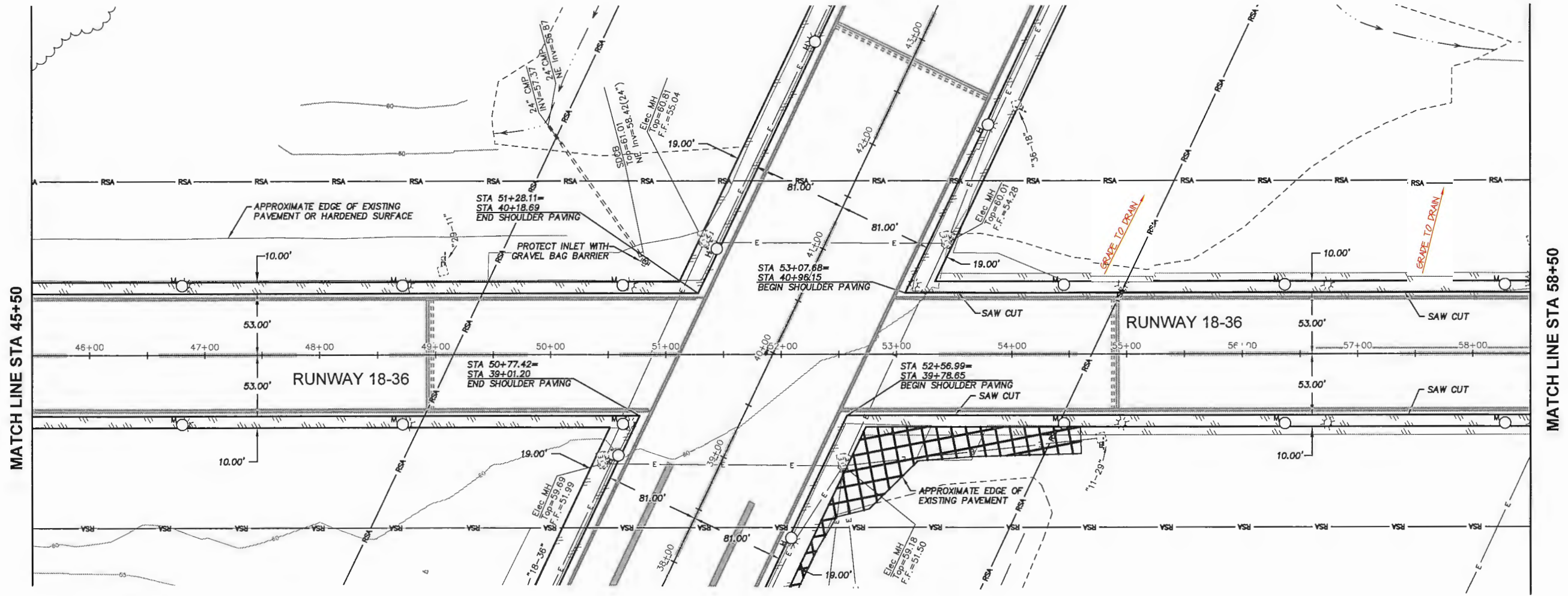
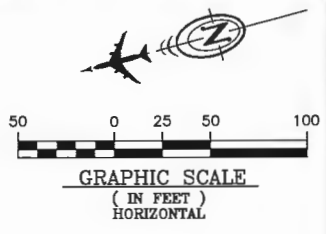


DATE	REVISION
6/2014	AS-BUILT

STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION  
 AND PUBLIC FACILITIES  
 CENTRAL REGION

KING SALMON AIRPORT  
 KING SALMON, ALASKA  
 AIRPORT LIGHTING  
 PROJECT No. 52673  
 AIP No. 3-02-0148-12-2011  
 RUNWAY 18-36 AND TAXIWAY N PLAN  
 STA 26+00 TO STA 45+50

DATE: 2/22/2011  
 SHEET: 17 OF 54  
 AS-BUILT SHEET: 17 OF 57



Date Revised: 7/05/2014, 3:45 PM  
 Layout Name: 18-18-36  
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 Checked By: BRH



DATE ORIGINALLY STAMPED 2/18/11

REV.	DATE	AS-BUILT	REVISION
1	6/2014	AS-BUILT	

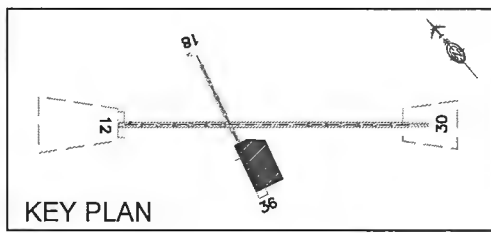
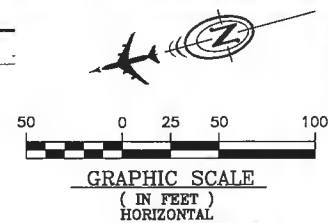
STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION  
 AND PUBLIC FACILITIES  
 CENTRAL REGION

KING SALMON AIRPORT  
 KING SALMON, ALASKA  
 AIRPORT LIGHTING  
 PROJECT No. 52673  
 AIP No. 3-02-0148-12-2011  
 RUNWAY 18-36 PLAN  
 STA 45+50 TO STA 58+50

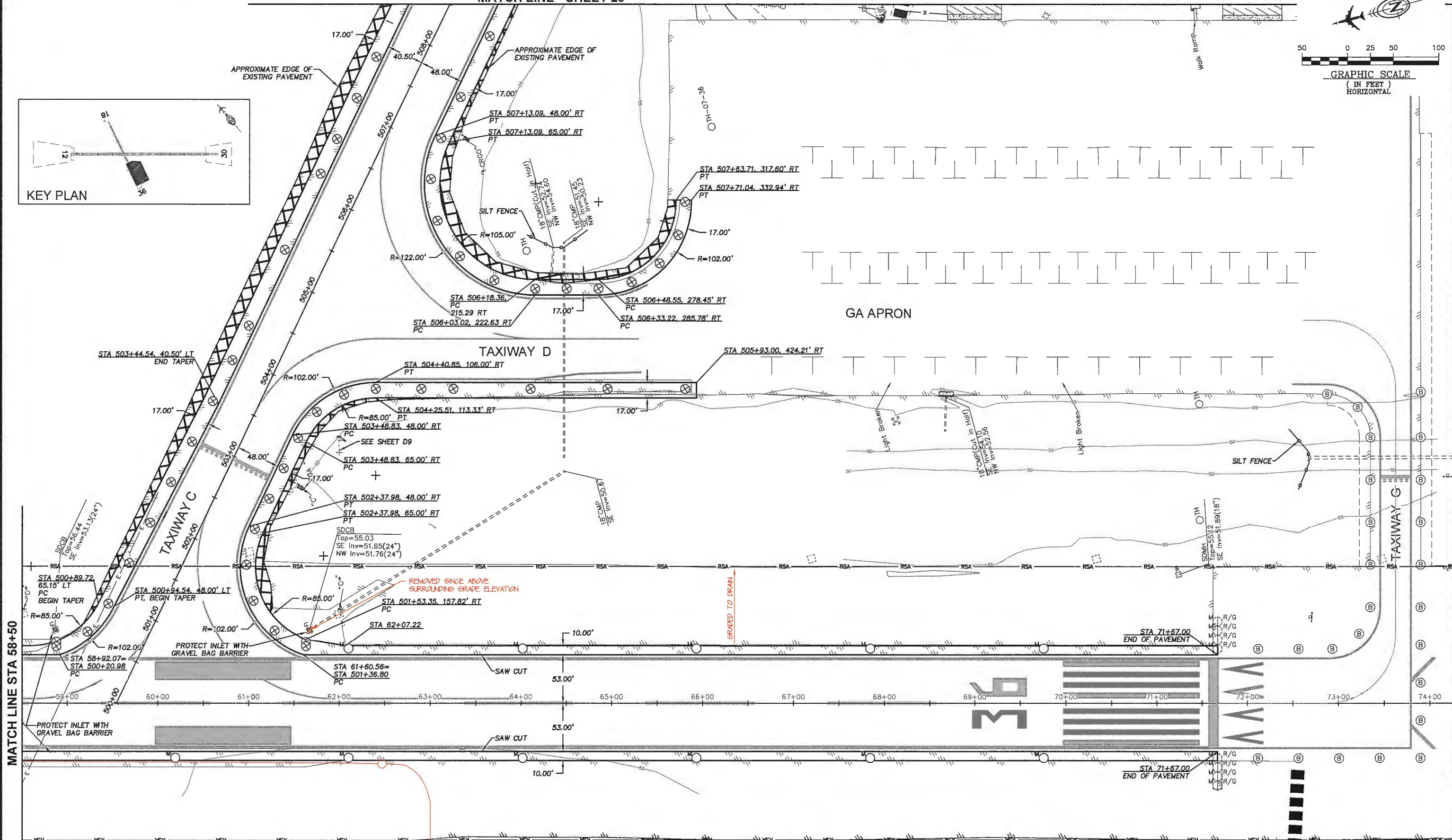
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 SHEET: 18 OF 54  
 AS-BUILT SHEET:  
 18 OF 57

PLAN PREPARED BY DOWL HKM





7/23/2014, 3:45 PM  
Date Revised:  
Layout Name: W:\Projects\King Salmon\Lighting 2011\Submittal\Draw-AK-AN\_LIGHTING.dwg  
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Script File: P&P  
DOW FILE No: 234-26  
Designed By: MJL  
Drawn By: RDL  
Checked By: BRH



MATCH LINE STA 58+50

PLAN PREPARED BY DOWL HKM

DATE ORIGINALLY STAMPED 2/18/11

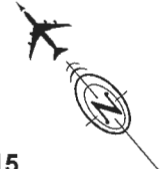
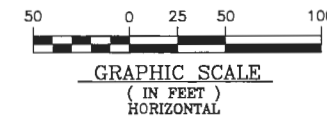


BY	DATE	REVISION
SL	6/2014	AS-BUILT

STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION  
AND PUBLIC FACILITIES  
CENTRAL REGION

KING SALMON AIRPORT  
KING SALMON, ALASKA  
AIRPORT LIGHTING  
PROJECT No. 52673  
AIP No. 3-02-0148-12-2011  
RUNWAY 18-36 & TAXIWAY C & D  
STA 58+50 TO STA 74+50

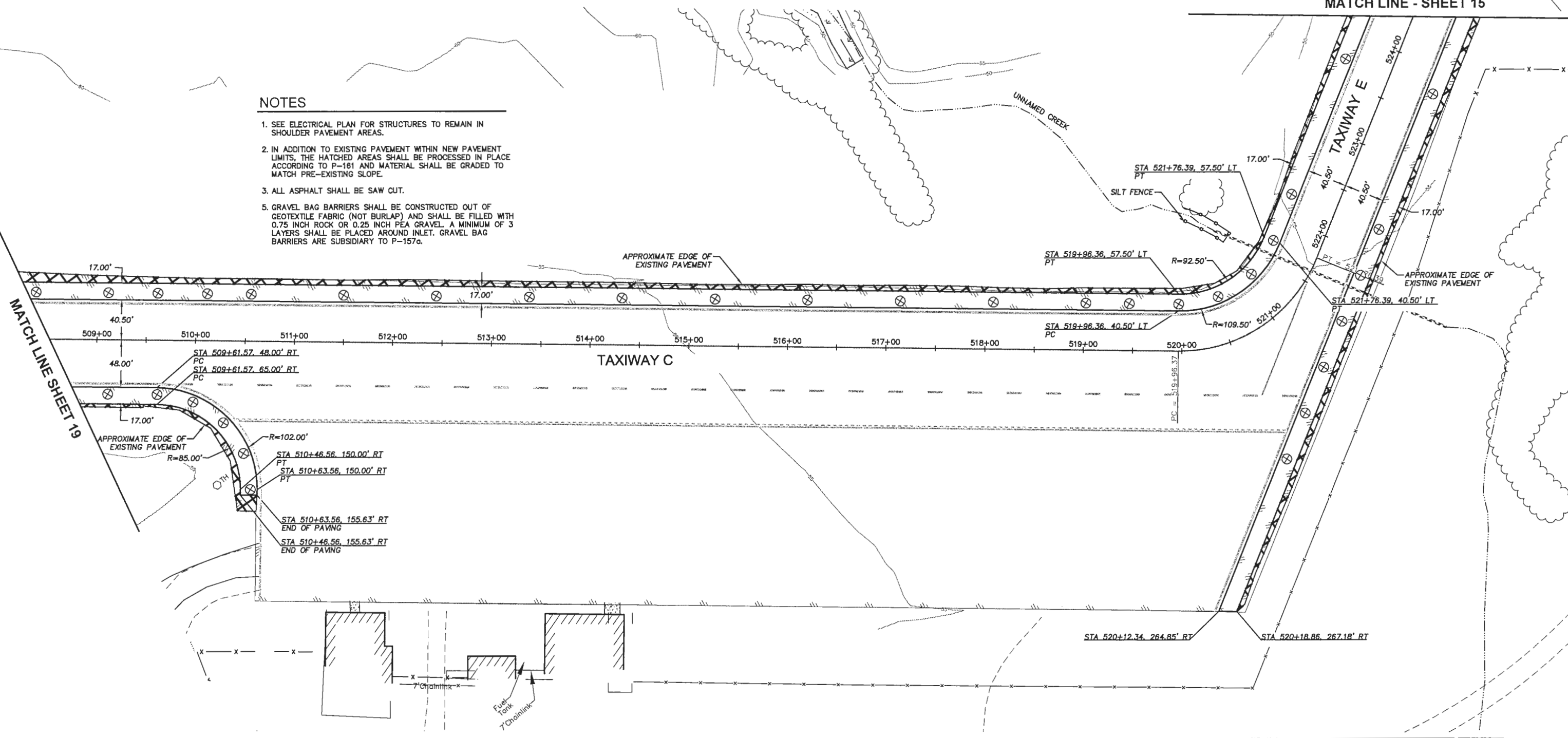
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SHEET: 19 OF 54  
AS-BUILT SHEET: 19 OF 57



MATCH LINE - SHEET 15

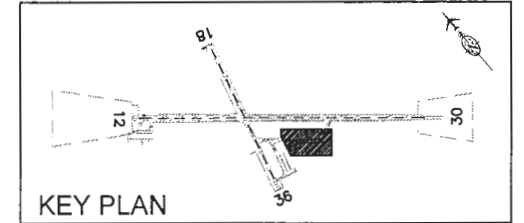
**NOTES**

1. SEE ELECTRICAL PLAN FOR STRUCTURES TO REMAIN IN SHOULDER PAVEMENT AREAS.
2. IN ADDITION TO EXISTING PAVEMENT WITHIN NEW PAVEMENT LIMITS, THE HATCHED AREAS SHALL BE PROCESSED IN PLACE ACCORDING TO P-161 AND MATERIAL SHALL BE GRADED TO MATCH PRE-EXISTING SLOPE.
3. ALL ASPHALT SHALL BE SAW CUT.
5. GRAVEL BAG BARRIERS SHALL BE CONSTRUCTED OUT OF GEOTEXTILE FABRIC (NOT BURLAP) AND SHALL BE FILLED WITH 0.75 INCH ROCK OR 0.25 INCH PEA GRAVEL. A MINIMUM OF 3 LAYERS SHALL BE PLACED AROUND INLET. GRAVEL BAG BARRIERS ARE SUBSIDIARY TO P-157c.



Date Revised: 7/05/2014, 3:45 PM  
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 SCRIPT FILE: P&P  
 DOW FILE NO: 234-26  
 Designed By: MJJ  
 Drawn By: RLL  
 Checked By: BRH

MATCH LINE SHEET 19



DATE ORIGINALLY STAMPED 2/18/11

NO.	DATE	REVISION
1	6/20/11	AS-BUILT

STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION  
 AND PUBLIC FACILITIES  
 CENTRAL REGION

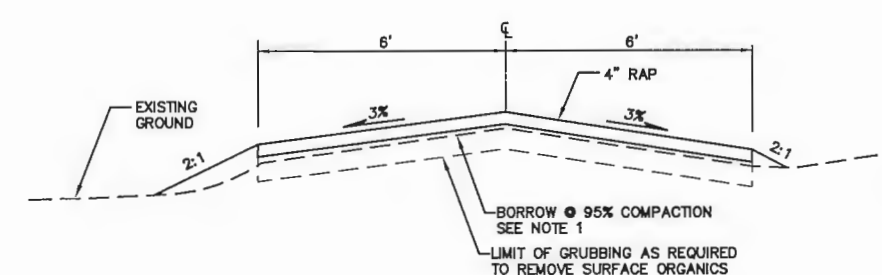
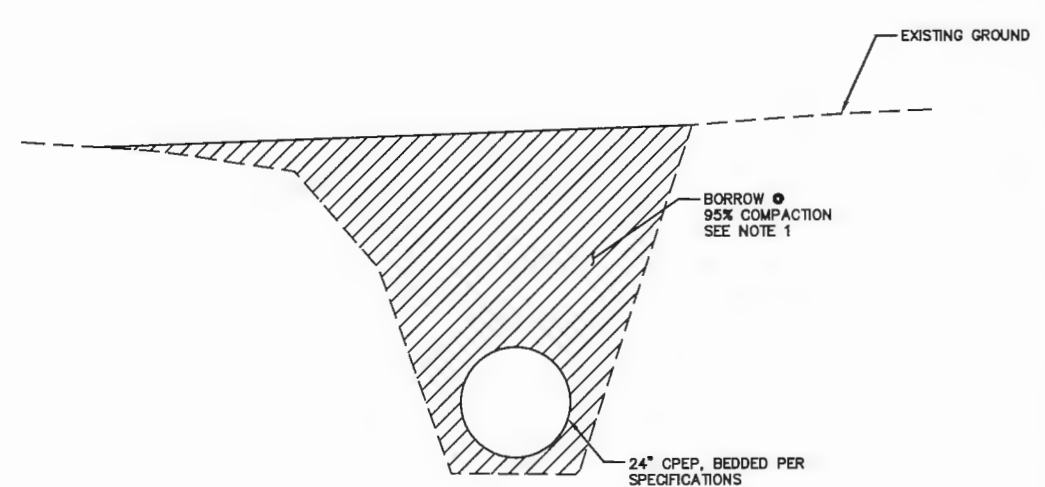
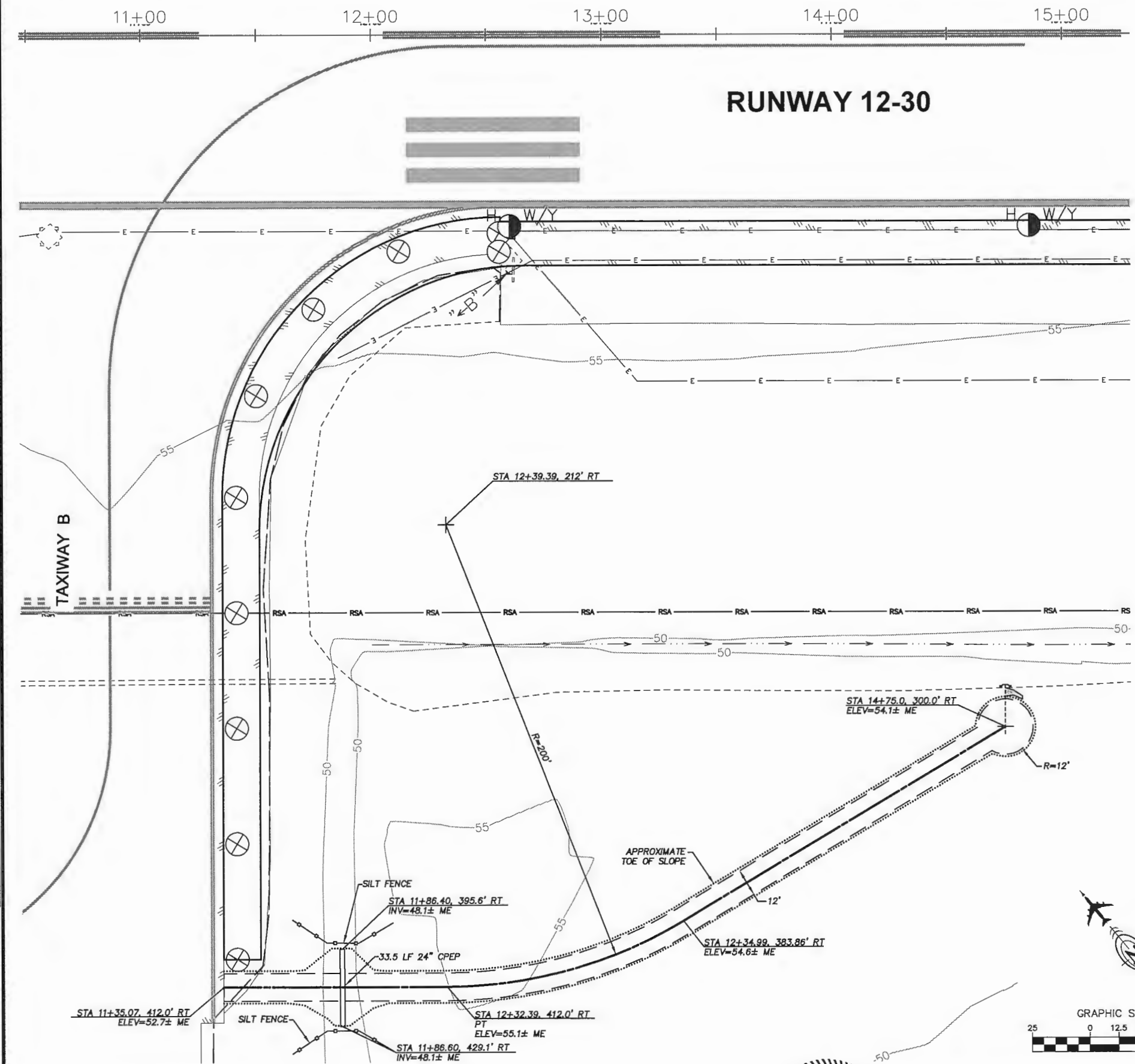
KING SALMON AIRPORT  
 AIRPORT LIGHTING  
 PROJECT No. 52673  
 AIP No. 3-02-0148-12-2011  
 TAXIWAY C & E PLAN

DATE: 2/22/2011  
 SHEET: 20 OF 54  
 AS-BUILT SHEET: 20 OF 51

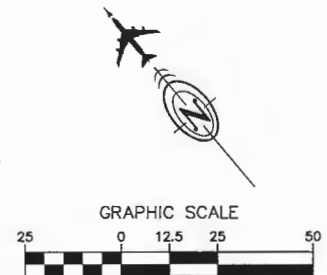
PLAN PREPARED BY DOWL HKM



Date Revised: 7/02/2014, 3:45 PM  
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 Designed By: MJJ  
 Drawn By: BRH  
 Checked By: BRH



- NOTES**
- ALL BORROW FOR ACCESS ROAD SHALL BE SUBSIDIARY TO ITEM D-701a.
  - GRUBBING SHALL BE SUBSIDIARY TO ITEM D-701a.



DATE ORIGINALLY STAMPED 2/18/11

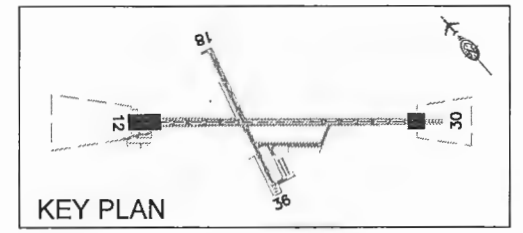
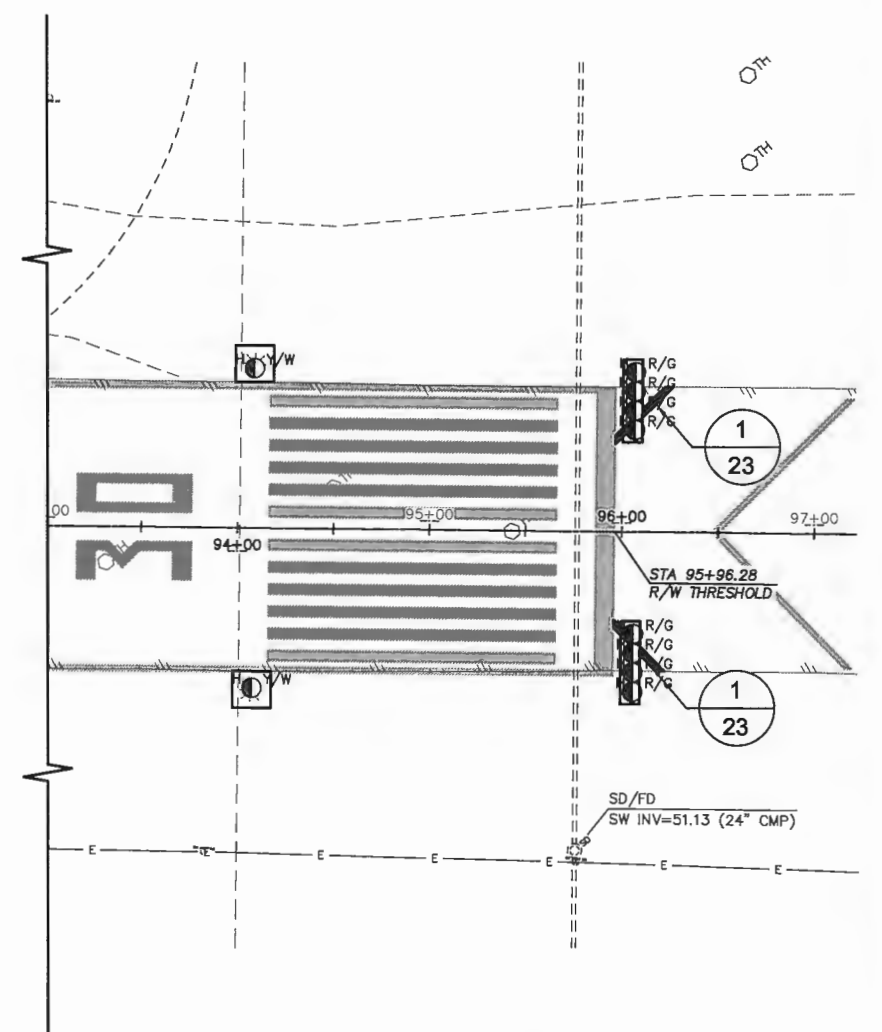
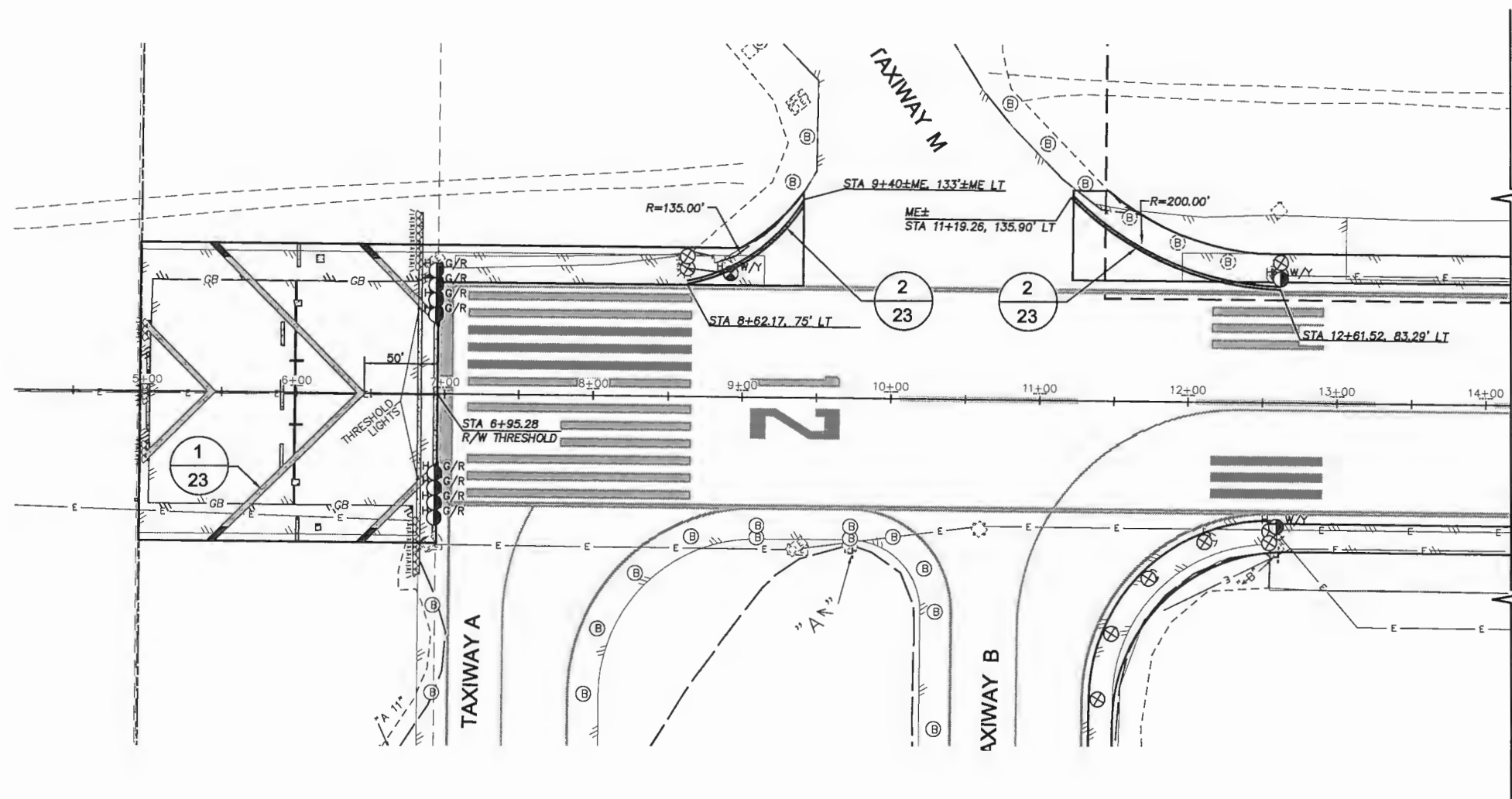
NO.	DATE	REVISION
1	6/2011	AS-BUILT

STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION  
 AND PUBLIC FACILITIES  
 CENTRAL REGION

**KING SALMON AIRPORT**  
 KING SALMON, ALASKA  
 AIRPORT LIGHTING  
 PROJECT No. 52673  
 AIP No. 3-02-0148-12-2011  
 SUPPLEMENTAL LIGHTED WIND CONE  
 PLAN & DETAILS

DATE: 2/22/2011  
 SHEET: 21 OF 54  
 AS-BUILT SHEET:  
 21 OF 57

Date Revised: 7/03/2014, 3:45 PM  
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 File Path and Name: I:\Projects\King Salmon\kin.lighting\2011\asbuilt\DRW-ANN\_LIGHTING.dwg  
 DWG FILE No. 234-26  
 SCRIPT FILE: P&P  
 Designed By: MJ  
 Drawn By: RDL  
 Checked By: BRH



DATE ORIGINALLY STAMPED 2/18/11

NO.	DATE	REVISION
1	6/2011	AS-BUILT

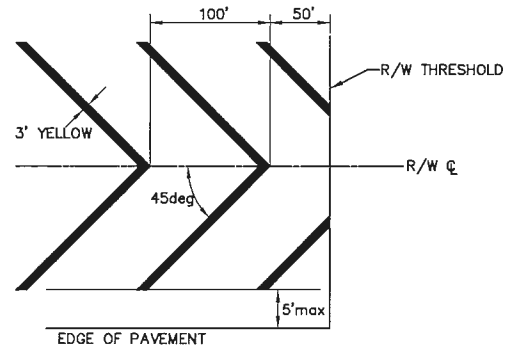
STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION  
 AND PUBLIC FACILITIES  
 CENTRAL REGION

KING SALMON AIRPORT  
 KING SALMON, ALASKA  
 AIRPORT LIGHTING  
 PROJECT No. 52673  
 AIP No. 3-02-0148-12-2011  
 BLAST PAD MARKING PLAN

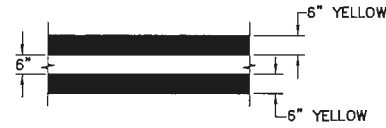
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 AS-BUILT SHEET: 22 OF 57



Date Revised: 7/03/2014, 3:45 PM  
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 DOWL FILE No. 234-26  
 Designed By: MJJ  
 Drawn By: ROL  
 Checked By: BRH



1 BLAST PAD MARKING  
 23 NTS



2 CONTINUOUS TAXIWAY EDGE STRIPE DETAIL  
 23 NTS

**NOTES**

- REFLECTIVE MEDIA SHALL BE APPLIED TO ALL MARKINGS AS SPECIFIED IN THE SPECIFICATIONS.

PLAN PREPARED BY DOWL HKM

DATE ORIGINALLY  
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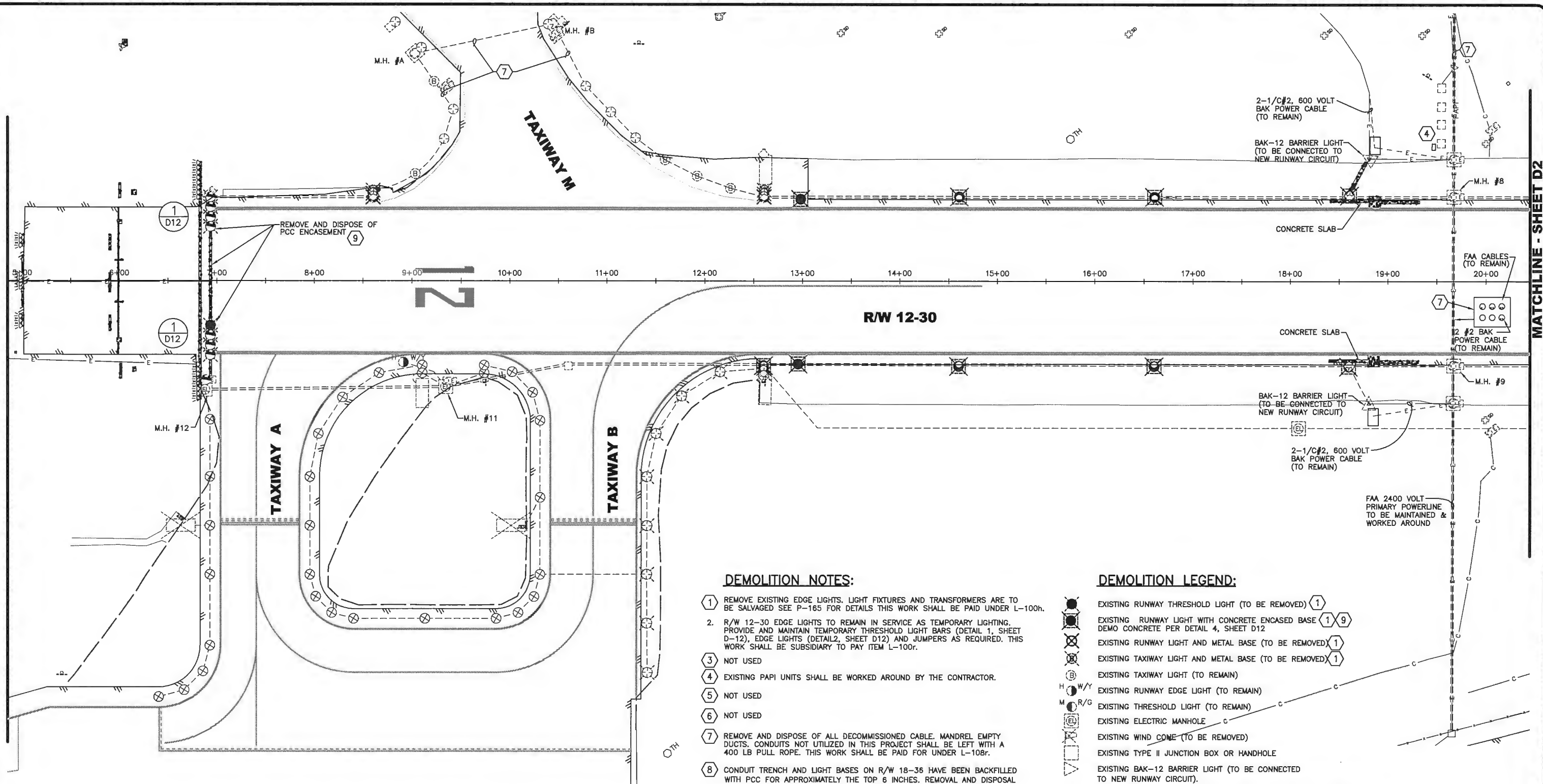
BY	DATE	REVISION
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STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION  
 AND PUBLIC FACILITIES  
 CENTRAL REGION

KING SALMON AIRPORT  
 KING SALMON, ALASKA  
 AIRPORT LIGHTING  
 PROJECT No. 52673  
 AIP No. 3-02-0148-12-2011  
 MARKING DETAILS

DATE: 2/22/2011  
 SHEET: 23 OF 54  
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 23 OF 56

Date Revised: 7/03/2014, 3:45 PM  
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 Drawn By: DMH  
 Checked By: MLL

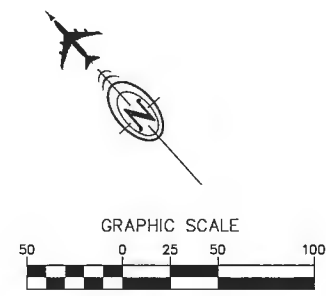
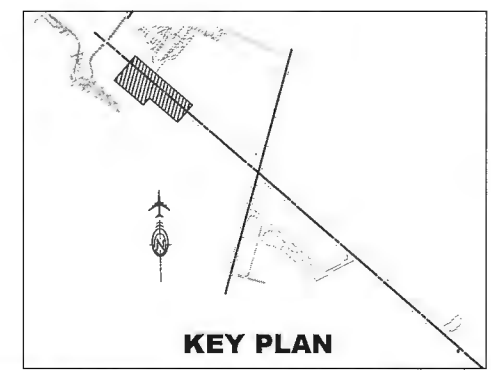


**DEMOLITION NOTES:**

- 1 REMOVE EXISTING EDGE LIGHTS, LIGHT FIXTURES AND TRANSFORMERS ARE TO BE SALVAGED SEE P-165 FOR DETAILS THIS WORK SHALL BE PAID UNDER L-100h.
- 2 R/W 12-30 EDGE LIGHTS TO REMAIN IN SERVICE AS TEMPORARY LIGHTING. PROVIDE AND MAINTAIN TEMPORARY THRESHOLD LIGHT BARS (DETAIL 1, SHEET D-12), EDGE LIGHTS (DETAIL 2, SHEET D12) AND JUMPERS AS REQUIRED. THIS WORK SHALL BE SUBSIDIARY TO PAY ITEM L-100r.
- 3 NOT USED
- 4 EXISTING PAPI UNITS SHALL BE WORKED AROUND BY THE CONTRACTOR.
- 5 NOT USED
- 6 NOT USED
- 7 REMOVE AND DISPOSE OF ALL DECOMMISSIONED CABLE, MANDREL EMPTY DUCTS. CONDUITS NOT UTILIZED IN THIS PROJECT SHALL BE LEFT WITH A 400 LB PULL ROPE. THIS WORK SHALL BE PAID FOR UNDER L-108r.
- 8 CONDUIT TRENCH AND LIGHT BASES ON R/W 18-36 HAVE BEEN BACKFILLED WITH PCC FOR APPROXIMATELY THE TOP 6 INCHES. REMOVAL AND DISPOSAL OF THE PCC SHALL BE PAID FOR UNDER P-165a SEE PHOTO 3, SHEET D12.
- 9 REMOVAL OF STRUCTURES SHALL BE PAID FOR UNDER P-165a.
10. ABANDONED CONDUCTORS AND GROUND WIRES IN RACEWAY SHALL BE REMOVED, CONDUIT AND DIRECT BURIED WIRING SHALL BE ABANDONED IN PLACE.
11. THE CONTRACTOR SHALL 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.
12. 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.
13. CONTRACTOR SHALL RESTORE LIGHTING CONTROL AND POWER CIRCUITS. TO THE SATISFACTION OF THE AIRPORT MANAGER, ONE HOUR PRIOR TO SUNSET.

**DEMOLITION LEGEND:**

- EXISTING RUNWAY THRESHOLD LIGHT (TO BE REMOVED) 1
- EXISTING RUNWAY LIGHT WITH CONCRETE ENCASED BASE DEMO CONCRETE PER DETAIL 4, SHEET D12
- EXISTING RUNWAY LIGHT AND METAL BASE (TO BE REMOVED) 1
- EXISTING TAXIWAY LIGHT AND METAL BASE (TO BE REMOVED) 1
- EXISTING TAXIWAY LIGHT (TO REMAIN)
- EXISTING RUNWAY EDGE LIGHT (TO REMAIN)
- EXISTING THRESHOLD LIGHT (TO REMAIN)
- EXISTING ELECTRIC MANHOLE
- EXISTING WIND CONE (TO BE REMOVED)
- EXISTING TYPE II JUNCTION BOX OR HANDHOLE
- EXISTING BAK-12 BARRIER LIGHT (TO BE CONNECTED TO NEW RUNWAY CIRCUIT).
- EXISTING CONCRETE ENCASE DUCT BANK (TO REMAIN AND WORKED AROUND)
- EXISTING AIRPORT SIGN (TO BE CONNECTED TO NEW CIRCUITS)
- EXISTING AIRPORT SIGN AND BASE (TO BE REMOVED) SHALL BE PAID AT THE UNIT PRICE UNDER L100h
- E--- EXISTING UNDERGROUND ELECTRIC
- C--- EXISTING UNDERGROUND COMMUNICATION
- - - - - EXISTING UNDERGROUND CONDUIT



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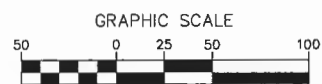
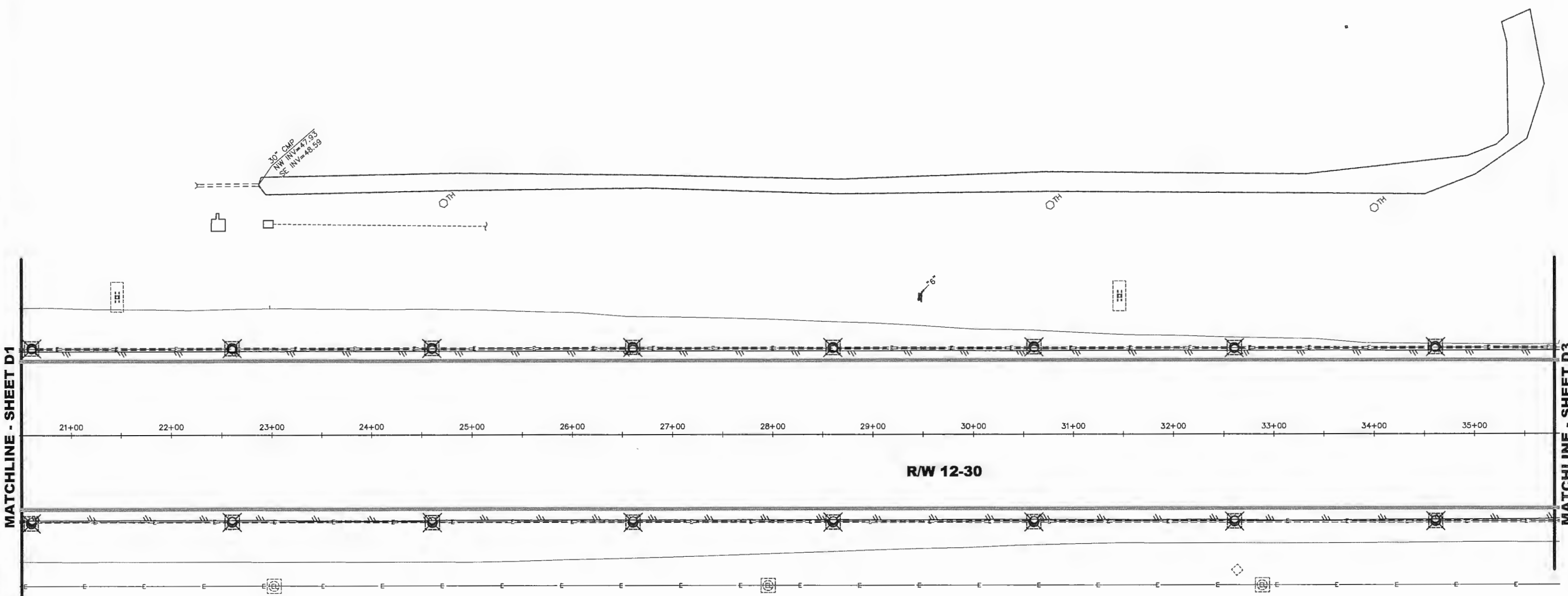
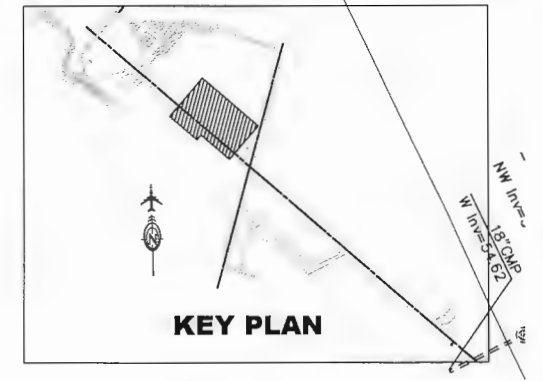
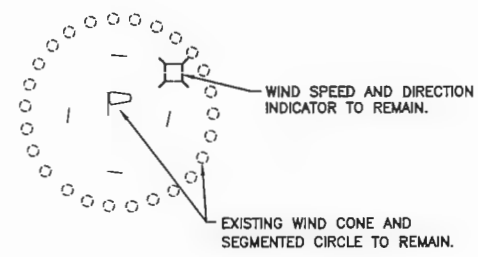
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 KING SALMON, ALASKA  
 AIRPORT LIGHTING  
 PROJECT No. 52673  
 AIP No. 3-02-0148-12-2011  
 RUNWAY 12-30 LIGHTING  
 DEMOLITION PLANS

DATE: 2/22/2011  
 SHEET: D1 OF 54  
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Date Revised: 7/03/2014, 3:46 PM  
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 SCRIPT FILE:  
 DOW FILE No. 234-26  
 Designed By: CMD  
 Drawn By: DMH  
 Checked By: MJL

KING  
 METAL BLOG  
 (CONCRETE PAD)



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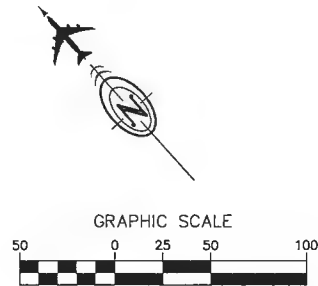
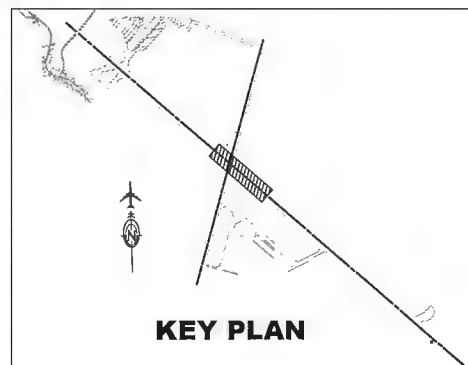
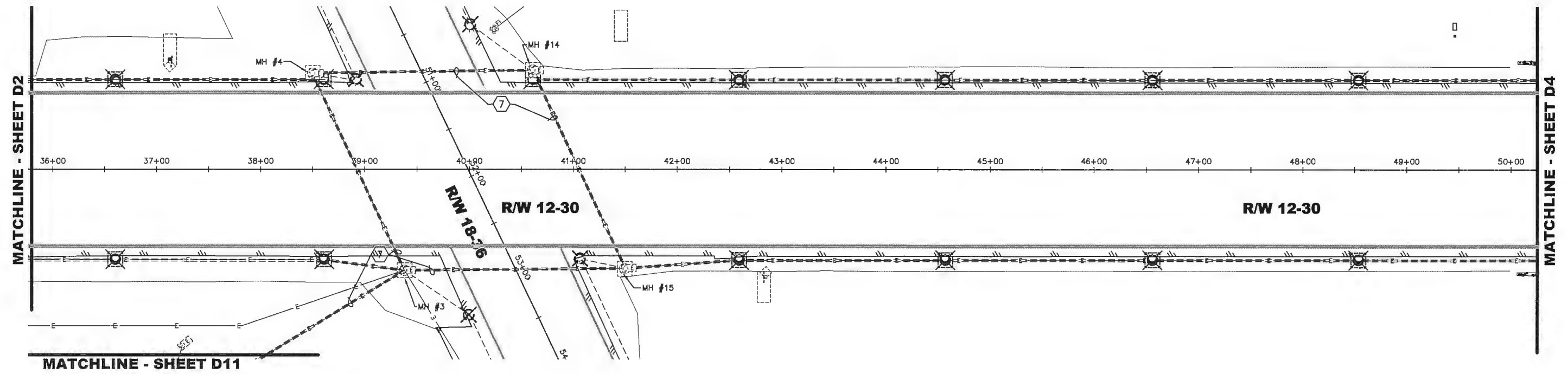
NO.	DATE	REVISION
D1	6/2014	AS-BUILT

STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION  
 AND PUBLIC FACILITIES  
 CENTRAL REGION

**KING SALMON AIRPORT**  
 KING SALMON, ALASKA  
 AIRPORT LIGHTING  
 PROJECT No. 52673  
 AIP No. 3-02-0148-12-2011  
 RUNWAY 12-30 LIGHTING  
 DEMOLITION PLANS

DATE: 2/22/2011  
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Date Revised: 7/03/2014, 3:46 PM  
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 Checked By: MLL



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BY	DATE	REVISION
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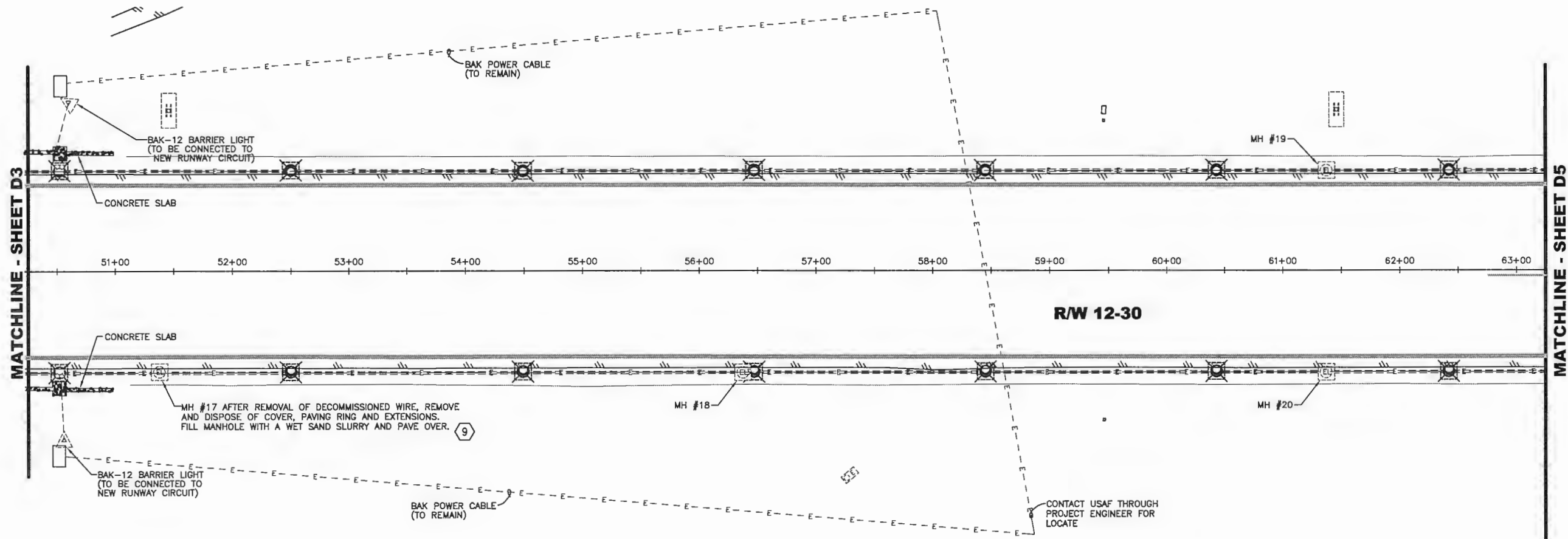
STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION  
 AND PUBLIC FACILITIES  
 CENTRAL REGION

KING SALMON AIRPORT  
 KING SALMON, ALASKA  
 AIRPORT LIGHTING  
 PROJECT No. 52673  
 AIP No. 3-02-0148-12-2011  
 RUNWAY 12-30 LIGHTING  
 DEMOLITION PLANS

DATE: 2/22/2011  
 SHEET: D3 OF 54  
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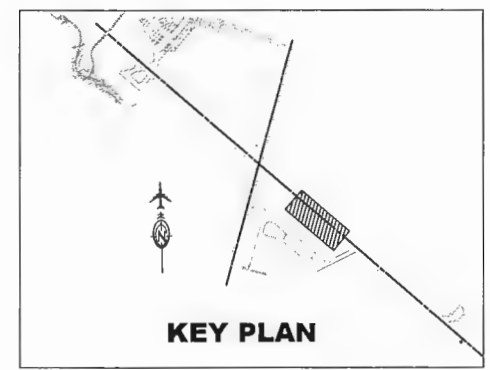
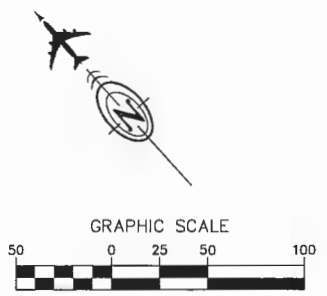


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 Layout Name:  
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MH #17 AFTER REMOVAL OF DECOMMISSIONED WIRE, REMOVE AND DISPOSE OF COVER, PAVING RING AND EXTENSIONS. FILL MANHOLE WITH A WET SAND SLURRY AND PAVE OVER.

CONTACT USAF THROUGH PROJECT ENGINEER FOR LOCATE



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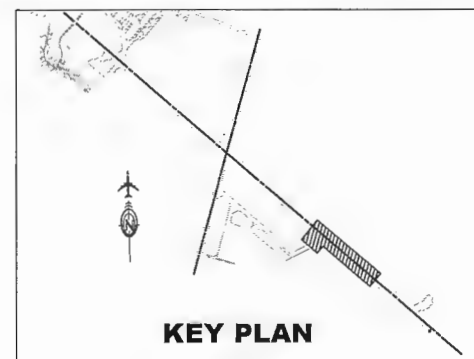
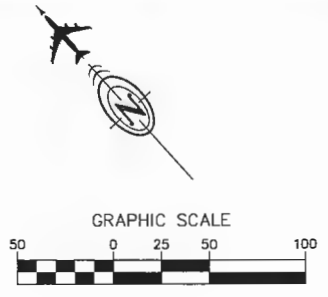
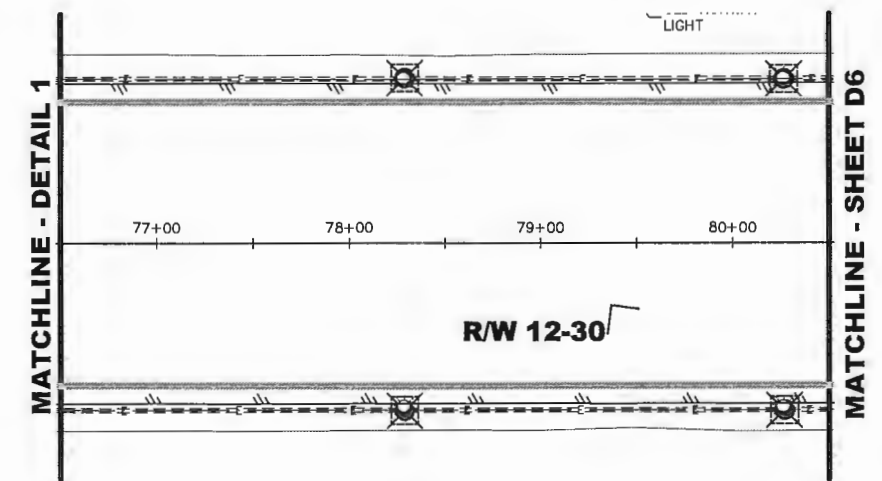
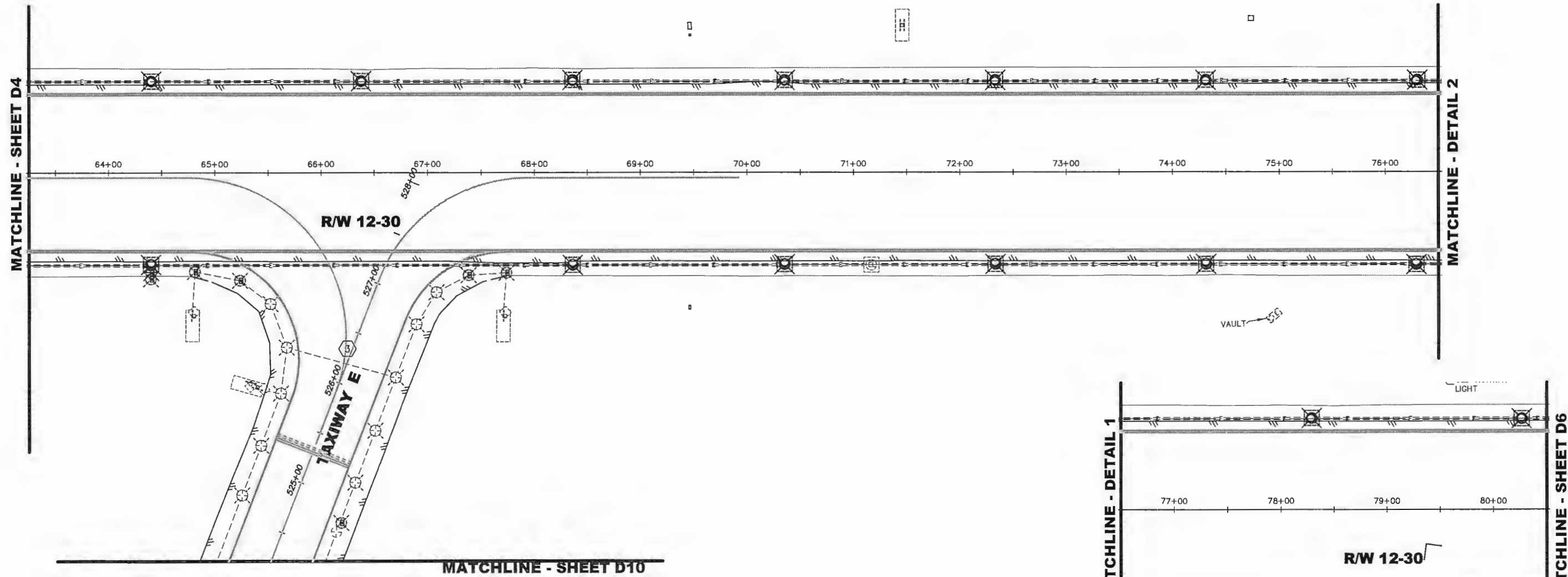
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1	6/20/11	AS-BUILT

STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION  
 AND PUBLIC FACILITIES  
 CENTRAL REGION

KING SALMON AIRPORT  
 KING SALMON, ALASKA  
 AIRPORT LIGHTING  
 PROJECT No. 52673  
 AIP No. 3-02-0148-12-2011  
 RUNWAY 12-30 LIGHTING  
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Date Revised: 7/03/2014, 3:47 PM  
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 Drawn By: DMH  
 Checked By: MJL



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NO.	DATE	REVISION
1	6/20/14	AS-BUILT

STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION  
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 CENTRAL REGION

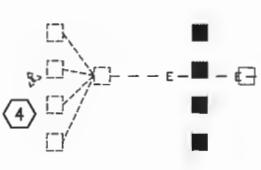
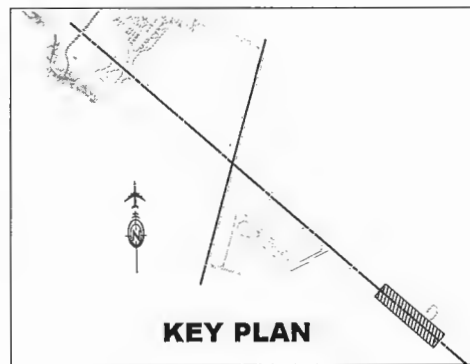
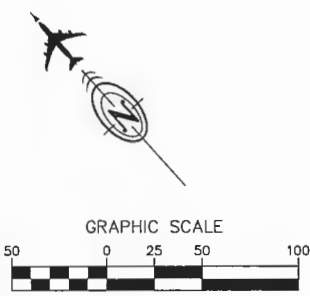
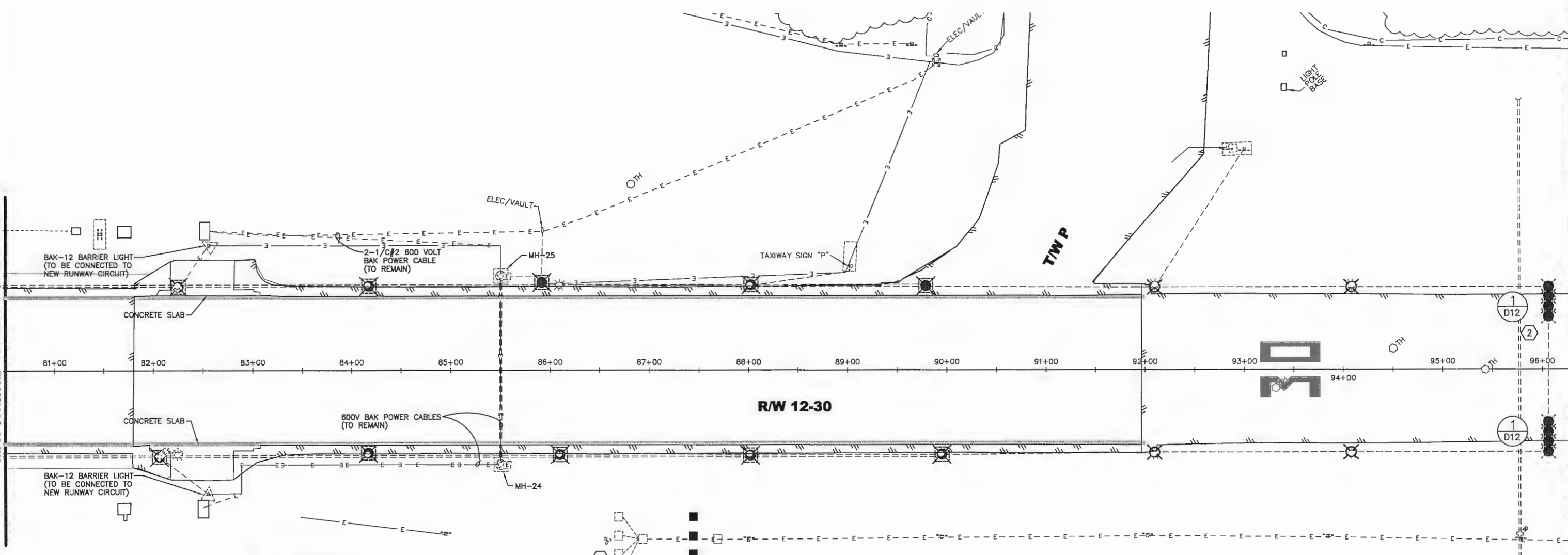
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 KING SALMON, ALASKA  
 AIRPORT LIGHTING  
 PROJECT No. 52673  
 AIP No. 3-02-0148-12-2011  
 RUNWAY 12-30 LIGHTING  
 DEMOLITION PLANS

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**MATCHLINE - SHEET D5**



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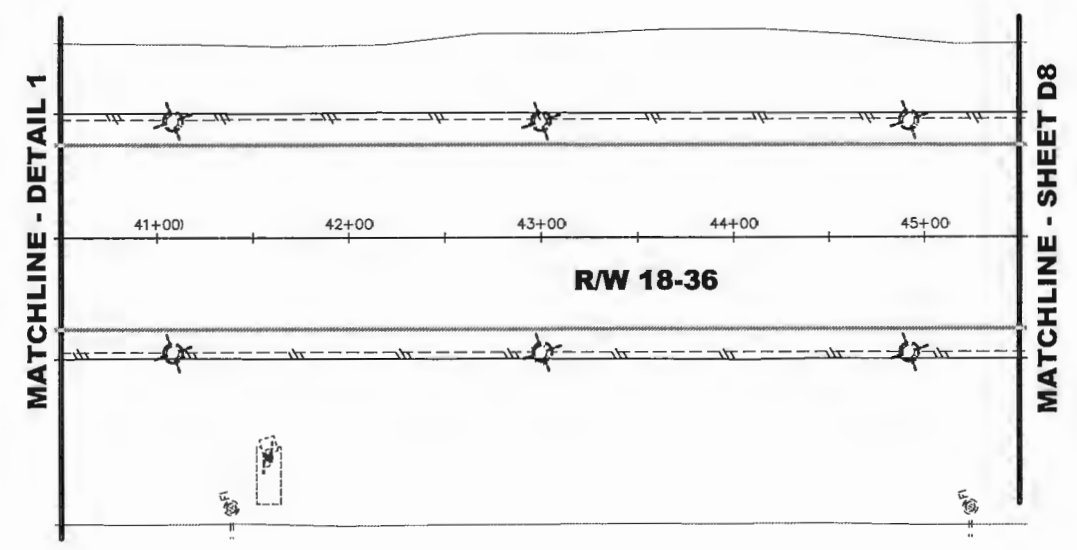
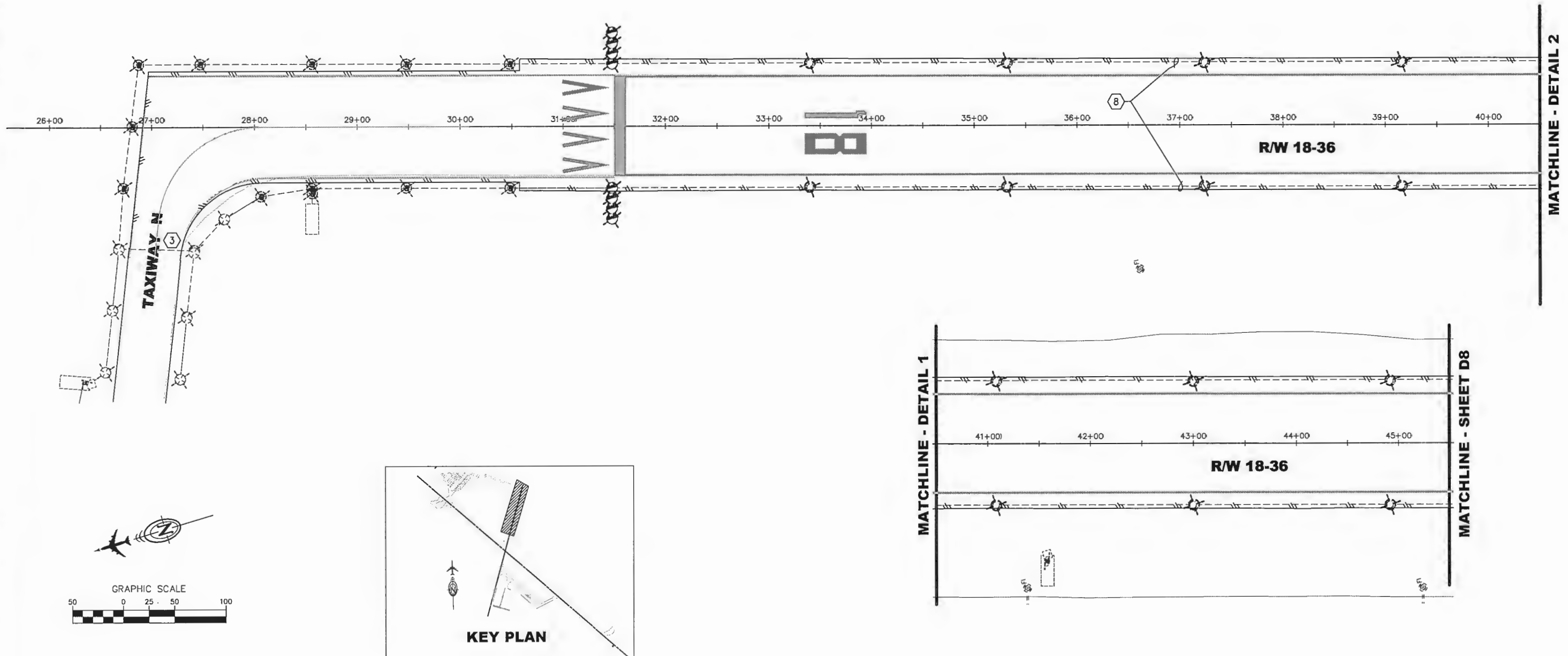
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1	6/2011	AS-BUILT

STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION  
 AND PUBLIC FACILITIES  
 CENTRAL REGION

**KING SALMON AIRPORT**  
 KING SALMON, ALASKA  
 AIRPORT LIGHTING  
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 AIP No. 3-02-0148-12-2011  
 RUNWAY 12-30 LIGHTING  
 DEMOLITION PLANS

DATE: 2/22/2011  
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Date Revised: 7/05/2014, 3:47 PM  
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 Drawn By: MHL  
 Checked By: MHL



MATCHLINE - DETAIL 2

PLAN PREPARED BY MBA CONSULTING ENGINEERS, INC.

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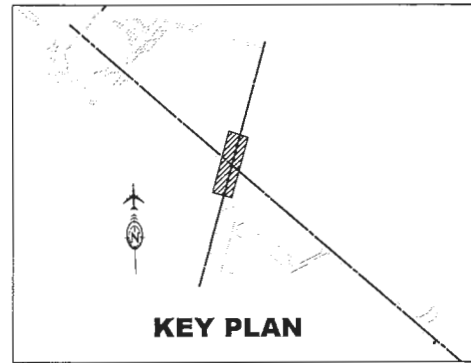
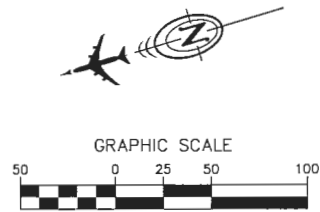
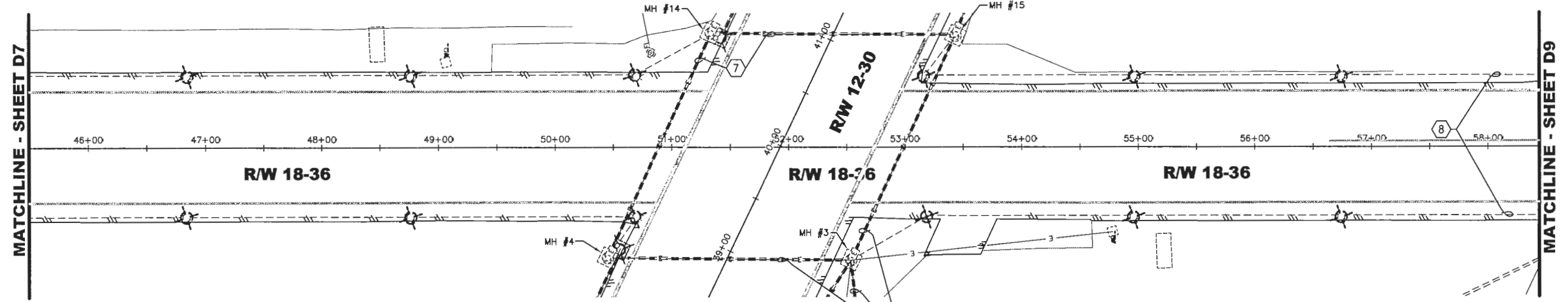
STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION  
 AND PUBLIC FACILITIES  
 CENTRAL REGION

KING SALMON AIRPORT  
 KING SALMON, ALASKA  
 AIRPORT LIGHTING  
 PROJECT No. 52673  
 AIP No. 3-02-0148-12-2011  
 RUNWAY 18-36 LIGHTING  
 DEMOLITION PLANS

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Date Revised: 7/03/2014, 3:47 PM  
 Layout Name: D8  
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 Designed By: CMD  
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DATE ORIGINALLY STAMPED 2/18/11

NO.	DATE	REVISION
1	6/2011	AS-BUILT

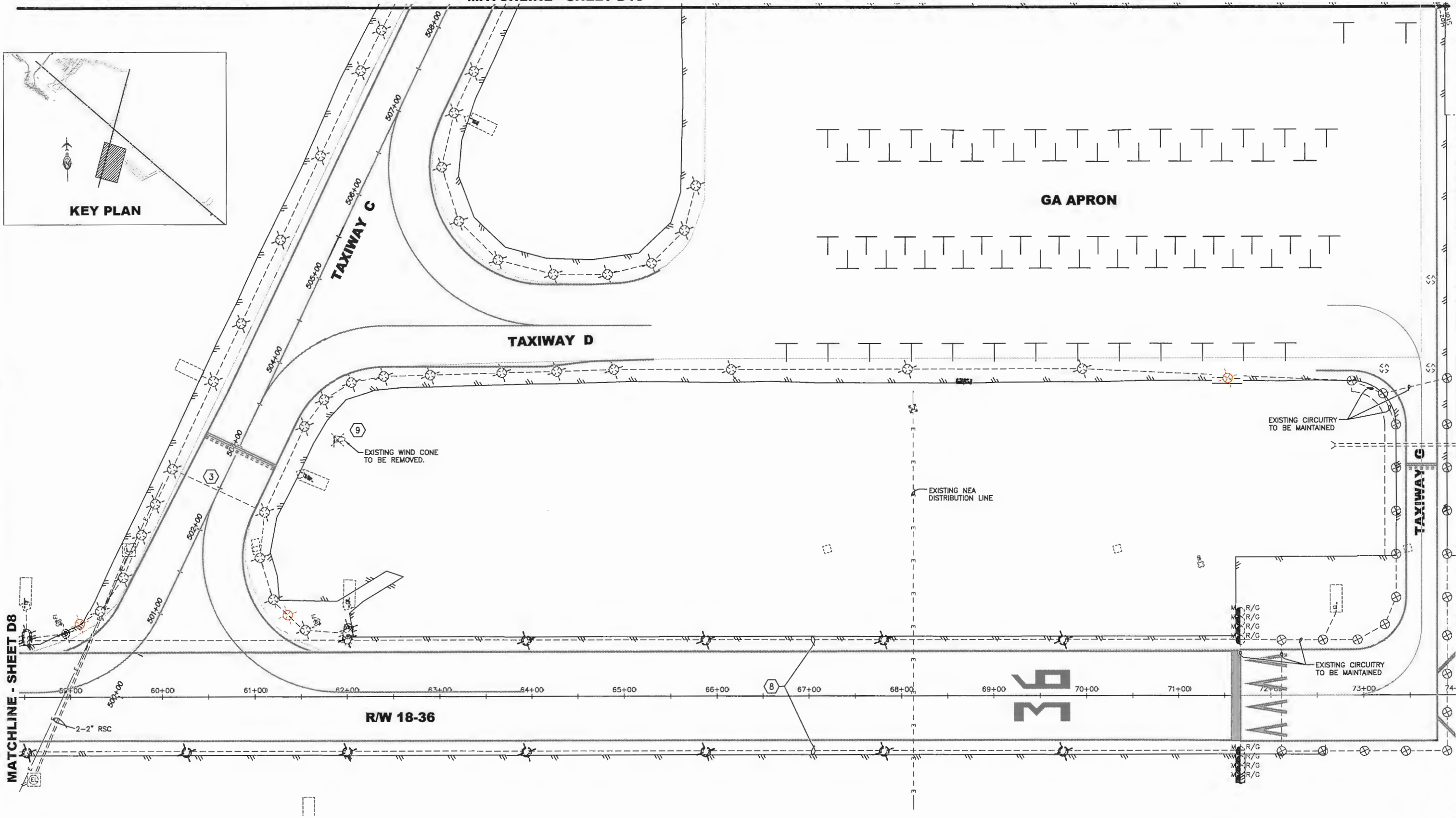
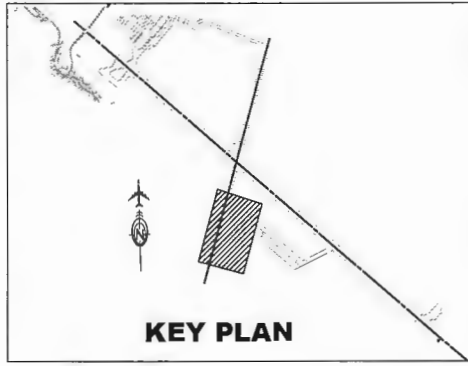
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**KING SALMON AIRPORT**  
 KING SALMON, ALASKA  
 AIRPORT LIGHTING  
 PROJECT No. 52673  
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Date Revised: 7/03/2014, 3:47 PM  
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 SCRIPT FILE: DOW FILE No. 234-26  
 Designed By: CMD  
 Drawn By: DMH  
 Checked By: MJL

MATCHLINE - SHEET D10



SEE SHEET D1 FOR NOTES AND LEGEND

PLAN PREPARED BY MBA CONSULTING ENGINEERS, INC.

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1	6/2/2014	AS-BUILT

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 CENTRAL REGION

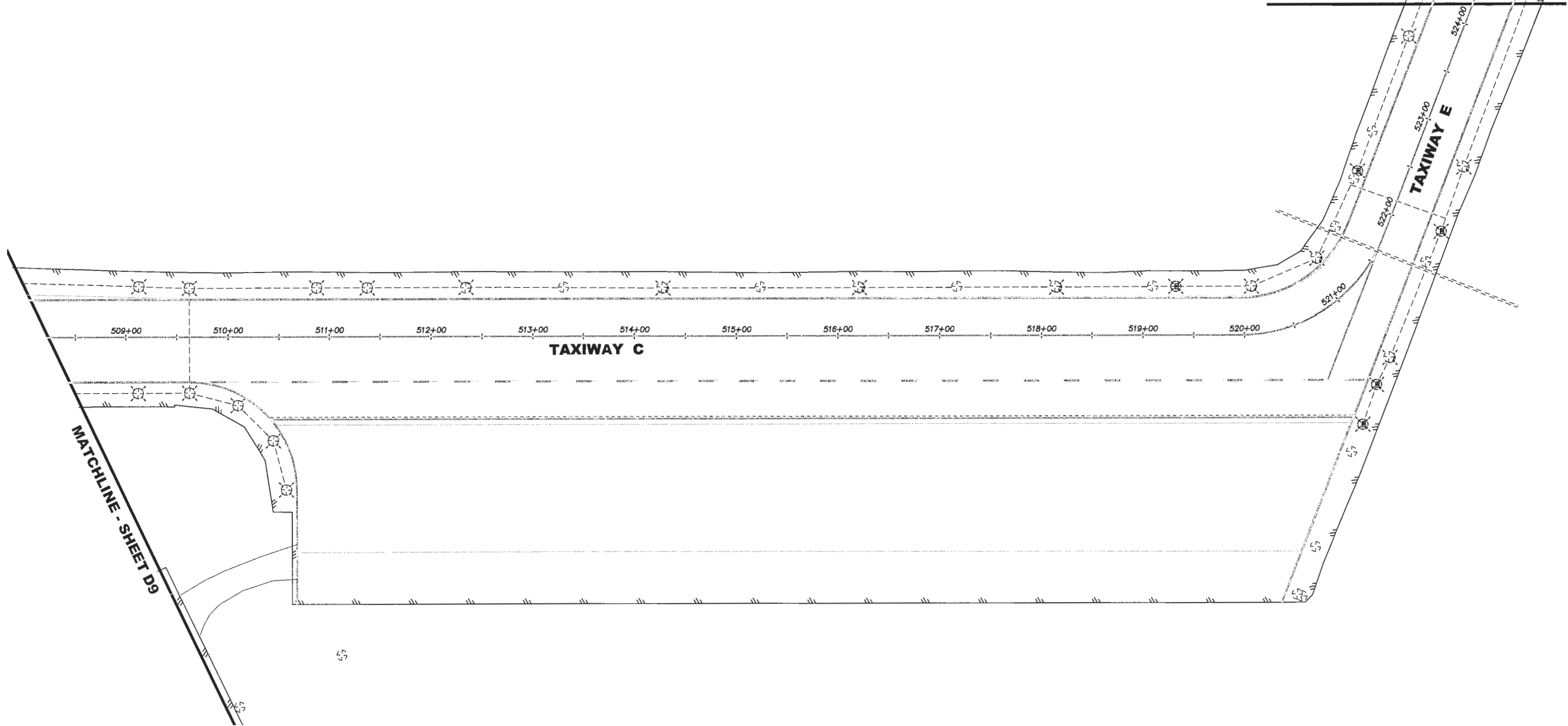
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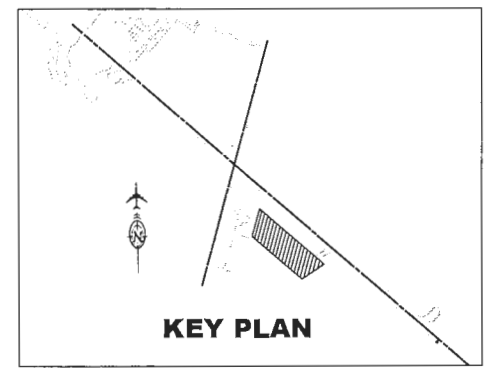
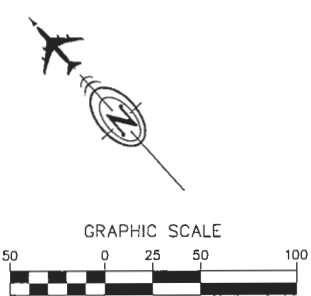


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MATCHLINE - SHEET D5



MATCHLINE - SHEET D9



DATE ORIGINALLY STAMPED 2/18/11

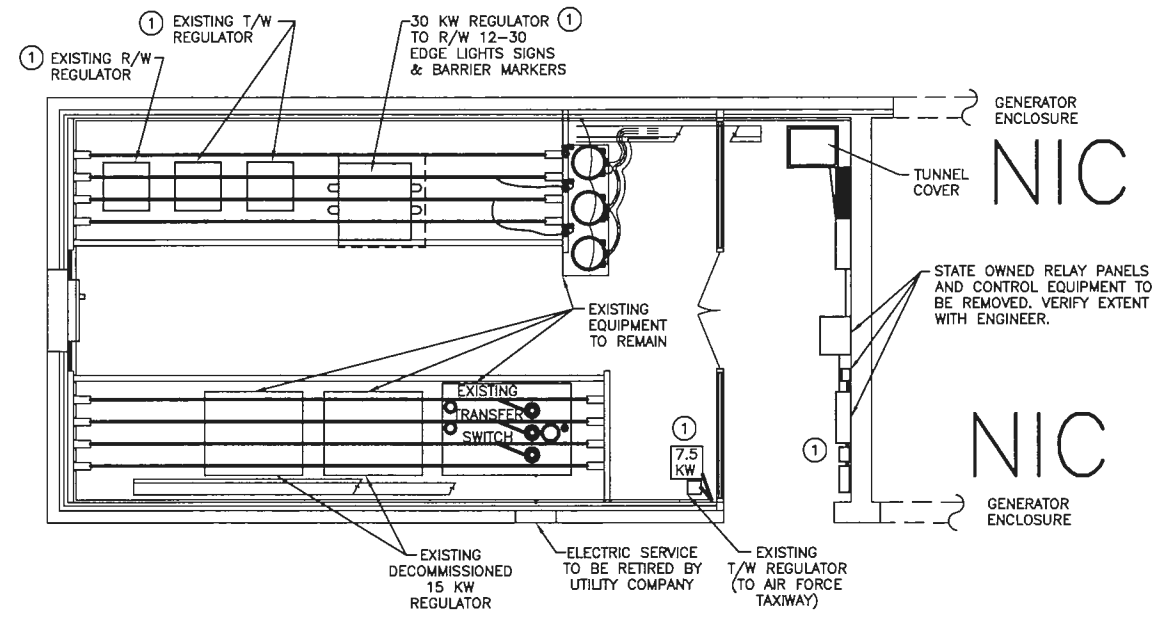
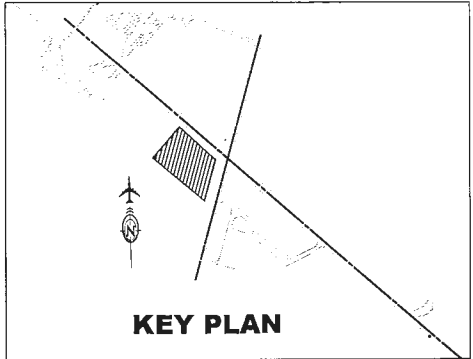
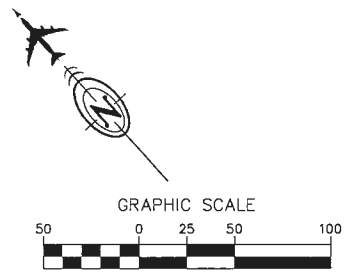
BY	DATE	REVISION
YZ	6/2014	AS-BUILT

STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION  
 AND PUBLIC FACILITIES  
 CENTRAL REGION

KING SALMON AIRPORT  
 KING SALMON, ALASKA  
 AIRPORT LIGHTING  
 PROJECT No. 52673  
 AIP No. 3-02-0148-12-2011  
 TAXIWAY C AND E LIGHTING  
 DEMOLITION PLANS

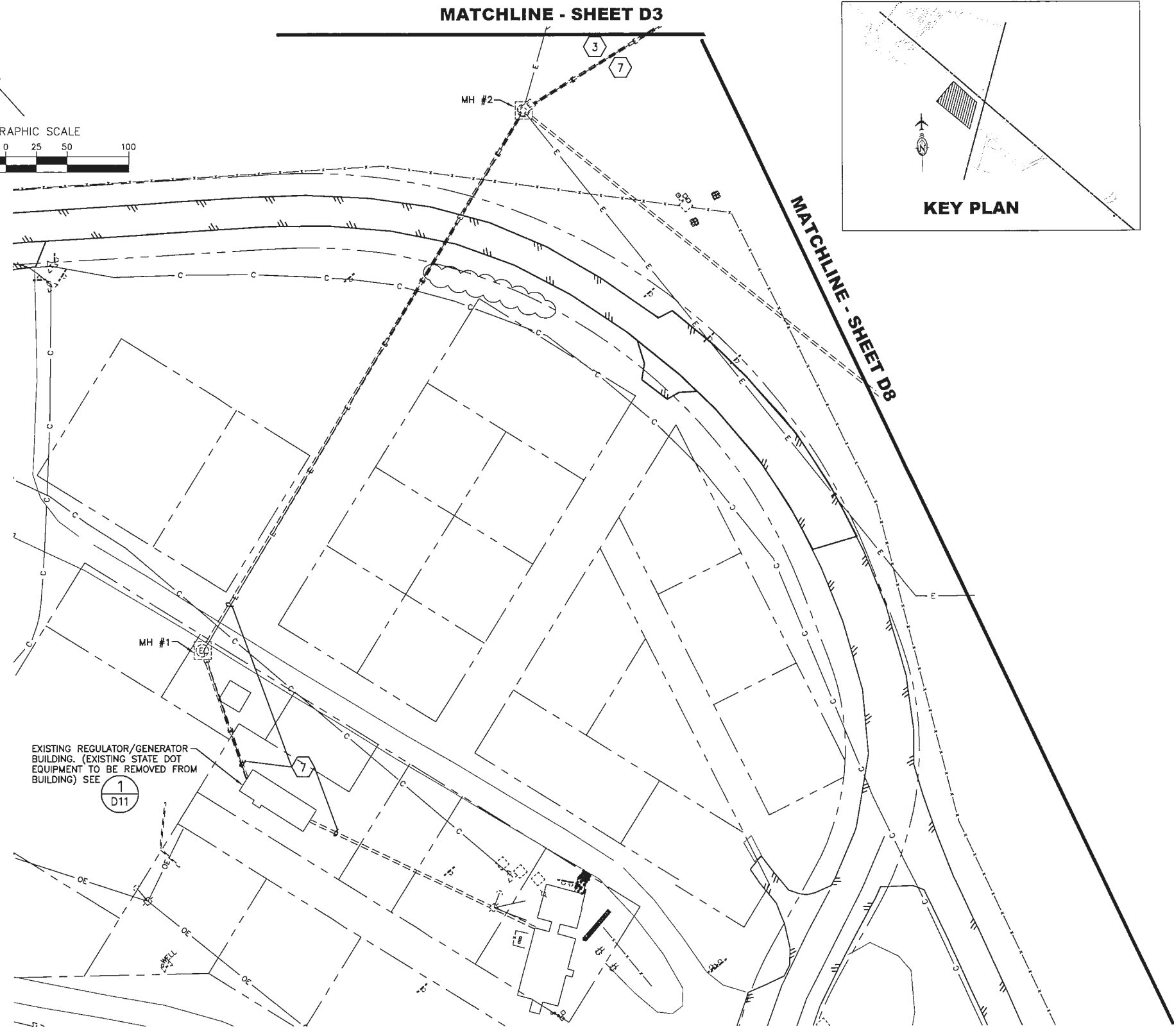
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**1** EXISTING-REGULATOR VAULT PLAN  
 D11 SCALE: NTS

① STATE OWNED REGULATORS AND CONTROL EQUIPMENT ARE TO BE OFFERED TO STATE FIELD MAINTENANCE PERSONNEL FOR SALVAGE. INPUT WIRING TO BE REMOVED BACK TO THE PANEL BOARD CIRCUIT BREAKER. CONTROL WIRING TO BE REMOVED BACK TO THE RELAY PANEL. FIELD WIRING TO REMOVED BACK TO THE DUCT ENTRIES INTO THE TUNNEL. EQUIPMENT AND WIRING DEEMED UNSALVAGEABLE SHALL BE DISPOSED OF BY THE CONTRACTOR. ALL DEMOLITION WORK ASSOCIATED WITH THE EXISTING VAULT BUILDING SHALL BE PAID UNDER P-165a.



SEE SHEET D1 FOR NOTES AND LEGEND

DATE ORIGINALLY STAMPED 2/18/11

BY	DATE	REVISION
TZ	6/2014	AS-BUILT

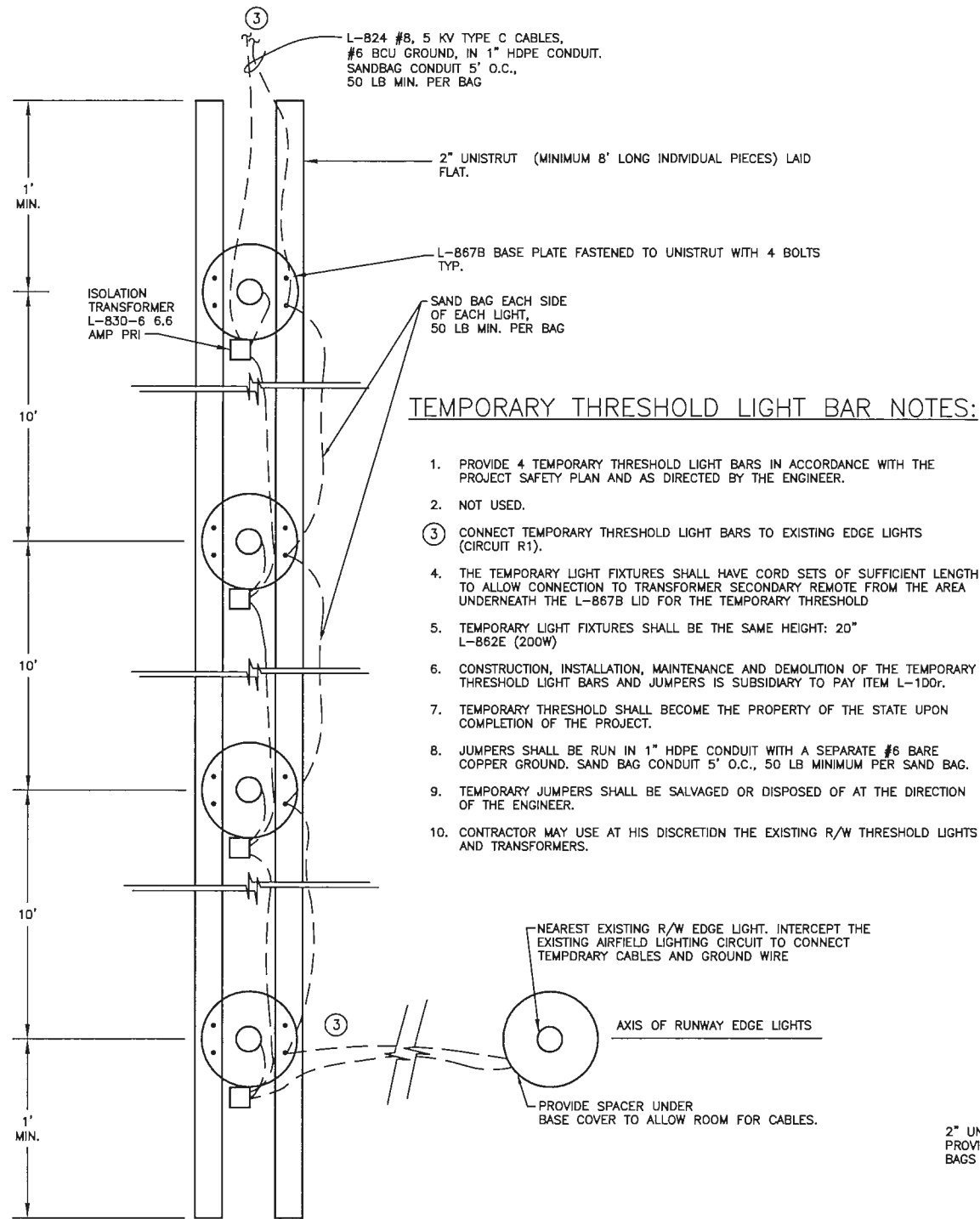
STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION  
 AND PUBLIC FACILITIES  
 CENTRAL REGION

KING SALMON AIRPORT  
 KING SALMON, ALASKA  
 AIRPORT LIGHTING  
 PROJECT No. 52673  
 AIP No. 3-02-0148-12-2011  
 EXISTING REGULATOR/GENERATOR BUILDING DEMOLITION PLAN

DATE: 2/22/2011  
 SHEET: D11 of 54  
 AS-BUILT SHEET: 34 OF 57



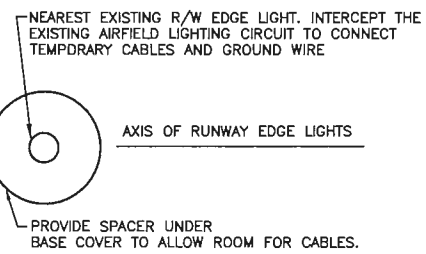
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 Checked By: ML



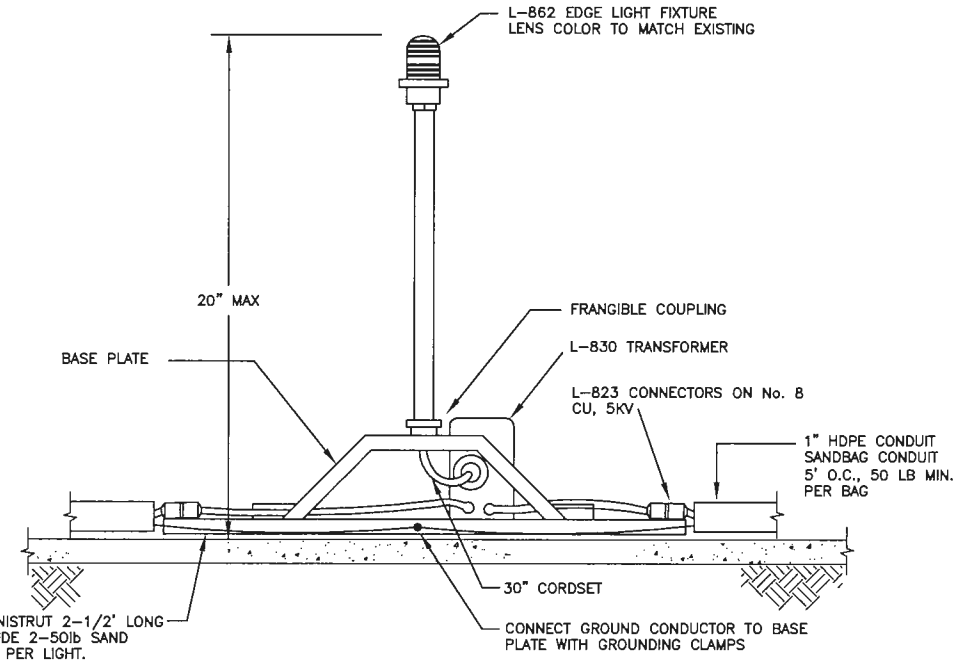
**1** TEMPORARY THRESHOLD LIGHT BAR  
 D12 SCALE: NTS

**TEMPORARY THRESHOLD LIGHT BAR NOTES:**

1. PROVIDE 4 TEMPORARY THRESHOLD LIGHT BARS IN ACCORDANCE WITH THE PROJECT SAFETY PLAN AND AS DIRECTED BY THE ENGINEER.
2. NOT USED.
3. CONNECT TEMPORARY THRESHOLD LIGHT BARS TO EXISTING EDGE LIGHTS (CIRCUIT R1).
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: 20" L-862E (200W)
6. CONSTRUCTION, INSTALLATION, MAINTENANCE AND DEMOLITION OF THE TEMPORARY THRESHOLD LIGHT BARS AND JUMPERS IS SUBSIDIARY TO PAY ITEM L-100r.
7. TEMPORARY THRESHOLD SHALL BECOME THE PROPERTY OF THE STATE UPON COMPLETION OF THE PROJECT.
8. 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.
9. TEMPORARY JUMPERS SHALL BE SALVAGED OR DISPOSED OF AT THE DIRECTION OF THE ENGINEER.
10. CONTRACTOR MAY USE AT HIS DISCRETION THE EXISTING R/W THRESHOLD LIGHTS AND TRANSFORMERS.

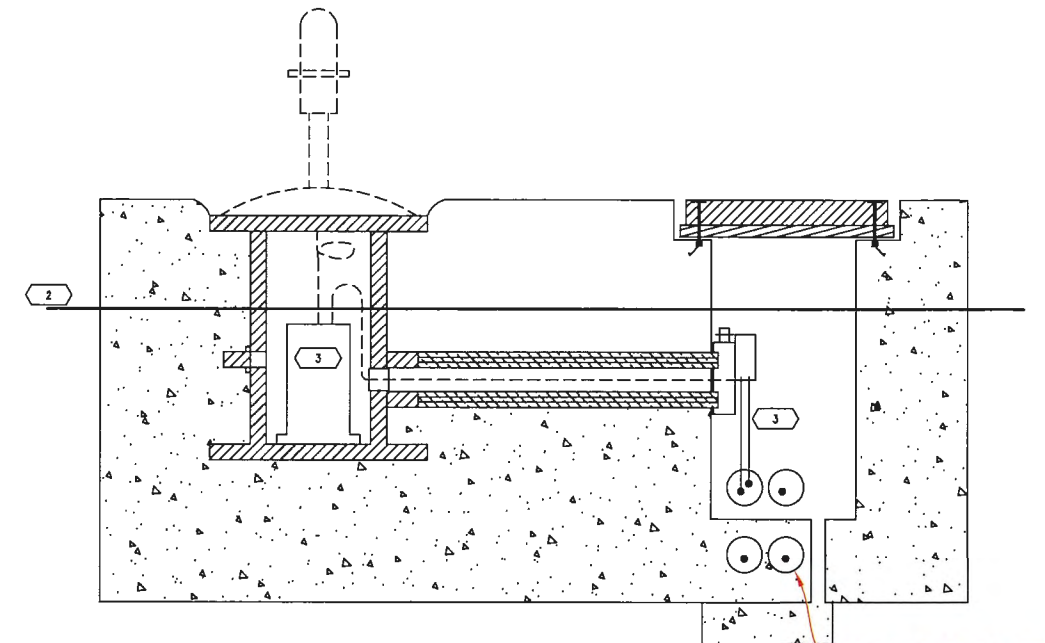


**3** EXISTING EDGE LIGHT PCC  
 D12 SCALE: NTS



**2** TEMPORARY RUNWAY EDGE LIGHT DETAIL  
 D12 SCALE: NTS

- \* CONTRACTOR MAY USE AT HIS DISCRETION FIXTURES AND TRANSFORMERS REMOVED FROM R/W 12-30
- \* TEMPORARY EDGE LIGHT ASSEMBLIES SHALL BE OFFERED TO THE STATE FOR SALVAGE AT COMPLETION OF THE PROJECT.
- \* CONSTRUCTION, INSTALLATION, MAINTENANCE AND DEMOLITION OF TEMPORARY EDGE LIGHTS, THRESHOLD LIGHTS AND JUMPERS IS SUBSIDIARY TO PAY ITEM L-100r
- \* TEMPORARY EDGE LIGHTS SHALL BE LAID OUT SYMMETRICAL TO EDGE LIGHTS ON OPPOSITE SIDE OF RUNWAY. MAINTAIN A STRAIGHT LINE WITH PREVIOUSLY INSTALLED TEMPORARY LIGHT OR EXISTING EDGE LIGHT.



**4** EXISTING R/W LIGHT BASE & HANDHOLE DETAIL  
 D12 NTS

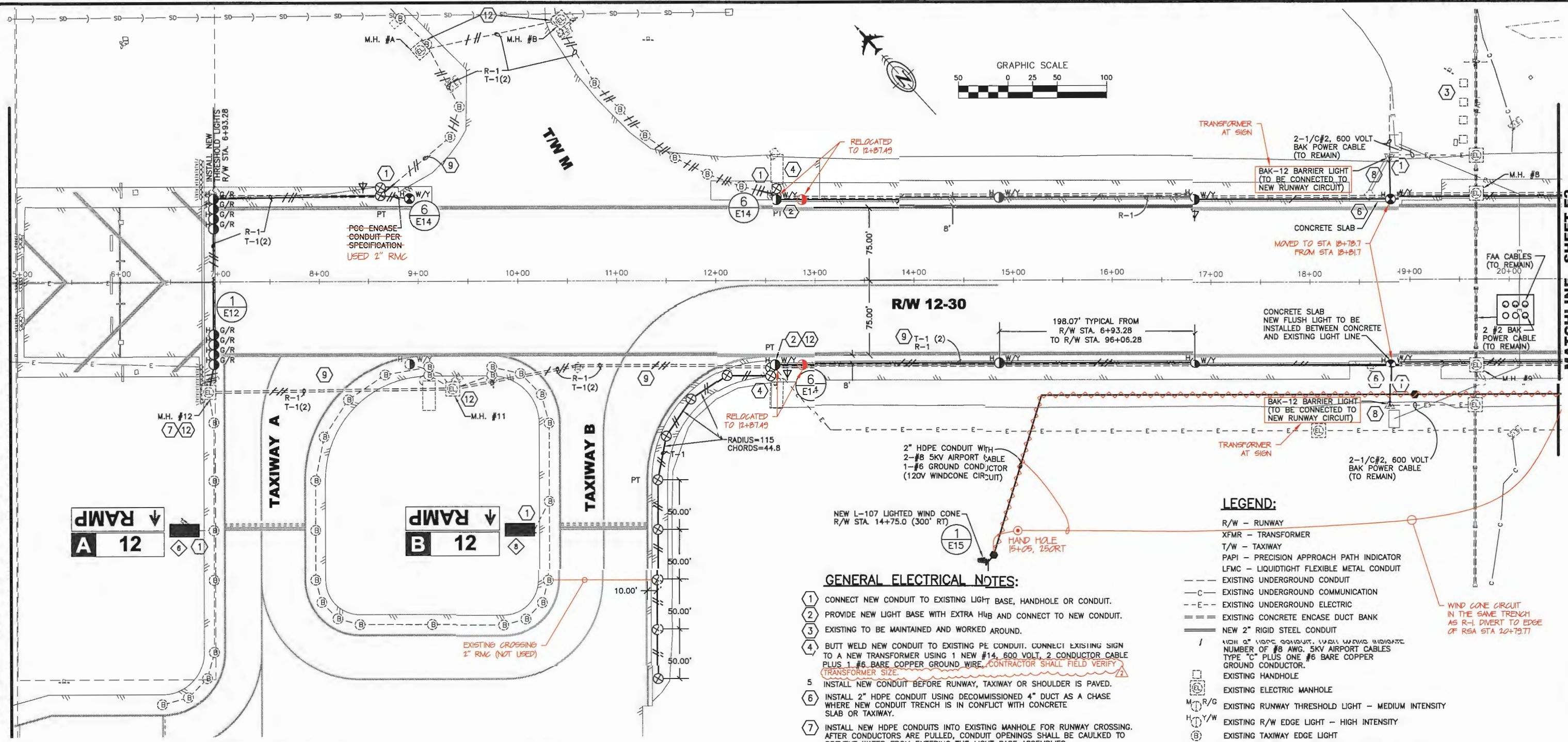
1. REMOVE LIGHT FIXTURE, TRANSFORMER & WIRE PER DEMOLITION NOTES 1 & 7
2. REMOVE STEEL COVERS, FRAMES AND BASES. CONCRETE ENCASEMENT SHALL BE REMOVED TO A DEPTH OF 12" BELOW FINISH GRADE.
3. VOIDS SHALL BE FILLED IN ACCORDANCE WITH P-165.

EXISTING 4" CONDUITS USED AS NOTED ON PLAN SHEETS FOR PLACEMENT OF 2" CONDUIT AND CABLE. EXCAVATED & EXPOSED AT THE EDGE LIGHTING BASE WITH LIGHT BEING REPLACED.

BY	DATE	REVISION
TZ	6/2014	AS-BUILT



7/27/2014, 8:45 AM  
 E1  
 Date Revised:  
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 Script File:  
 DWG FILE NO. 234-26  
 Designed By: CND  
 Drawn By: DMH  
 Checked By: MLL



- GENERAL ELECTRICAL NOTES:**
- CONNECT NEW CONDUIT TO EXISTING LIGHT BASE, HANDHOLE OR CONDUIT.
  - PROVIDE NEW LIGHT BASE WITH EXTRA HUB AND CONNECT TO NEW CONDUIT.
  - EXISTING TO BE MAINTAINED AND WORKED AROUND.
  - BUTT WELD NEW CONDUIT TO EXISTING PE CONDUIT. CONNECT EXISTING SIGN TO A NEW TRANSFORMER USING 1 NEW #14, 600 VOLT, 2 CONDUCTOR CABLE PLUS 1 #6 BARE COPPER GROUND WIRE. CONTRACTOR SHALL FIELD VERIFY TRANSFORMER SIZE.
  - INSTALL NEW CONDUIT BEFORE RUNWAY, TAXIWAY OR SHOULDER IS PAVED.
  - INSTALL 2" HDPE CONDUIT USING DECOMMISSIONED 4" DUCT AS A CHASE WHERE NEW CONDUIT TRENCH IS IN CONFLICT WITH CONCRETE SLAB OR TAXIWAY.
  - INSTALL NEW HDPE CONDUITS INTO EXISTING MANHOLE FOR RUNWAY CROSSING. AFTER CONDUCTORS ARE PULLED, CONDUIT OPENINGS SHALL BE CAULKED TO PREVENT WATER FROM ENTERING THE LIGHT BASE ASSEMBLIES.
  - CONNECT EXISTING LIGHT TO NEW 30/45 WATT XFMR USING 1 NEW 2-CONDUCTOR #14 600V CABLE PLUS ONE #6 BARE CU GROUND. THIS WORK SHALL BE SUBSIDIARY TO THE CONTRACT AND SEPARATE PAYMENT WILL NOT BE MADE.
  - 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 SERIES CIRCUITS.
  - CONTRACTOR SHALL PROVIDE AND INSTALL CABLE MANAGEMENT SYSTEM IN EXISTING MANHOLES. INSTALL 4 VERTICAL SUPPORT MEMBERS AND (4) 10" HORIZONTAL SUPPORTS PER VAULT. SYSTEM SHALL BE CONSTRUCTED OF HOT DIPPED GALVANIZED STEEL THIS WORK SHALL BE SUBSIDIARY TO THE PAY ITEM L-108a.
  - INSTALL WIND CONE CIRCUITS IN SEPARATE DUCT FROM SERIES CIRCUITS. SEPARATE CIRCUITS IN MANHOLE PER NEC.
  - CONNECT NEW CONDUCTORS TO EXISTING FOR CONTINUATION OF CIRCUIT.
  - CONNECT NEW HDPE CONDUIT TO EXISTING DISSIMILAR CONDUIT USING ELECTROFUSION COUPLING OR POLYCAM ADAPTER.
  - CONTRACTOR SHALL RESTORE LIGHTING CONTROL AND POWER CIRCUITS, TO THE SATISFACTION OF THE AIRPORT MANAGER, ONE HOUR PRIOR TO SUNSET.

**LEGEND:**

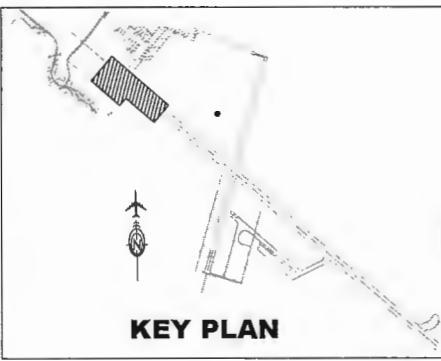
- R/W - RUNWAY
- XFMR - TRANSFORMER
- T/W - TAXIWAY
- PAPI - PRECISION APPROACH PATH INDICATOR
- LFMC - LIQUIDTIGHT FLEXIBLE METAL CONDUIT
- EXISTING UNDERGROUND CONDUIT
- C- EXISTING UNDERGROUND COMMUNICATION
- E- EXISTING UNDERGROUND ELECTRIC
- == EXISTING CONCRETE ENCASE DUCT BANK
- ==== NEW 2" RIGID STEEL CONDUIT
- 1 1/2" WIRE CONDUIT, 1/2" WIRE CONDUIT
- NUMBER OF #8 AWG, 5KV AIRPORT CABLES TYPE "C" PLUS ONE #6 BARE COPPER GROUND CONDUCTOR.
- EXISTING HANDHOLE
- EXISTING ELECTRIC MANHOLE
- M/R/G EXISTING RUNWAY THRESHOLD LIGHT - MEDIUM INTENSITY
- H/Y/W EXISTING R/W EDGE LIGHT - HIGH INTENSITY
- B EXISTING TAXIWAY EDGE LIGHT
- H/G/R NEW RUNWAY THRESHOLD LIGHT - HIGH INTENSITY
- M/G/R NEW RUNWAY THRESHOLD LIGHT - MEDIUM INTENSITY
- H/Y/W NEW RUNWAY EDGE LIGHT - HIGH INTENSITY
- M/G/R NEW FLUSH RUNWAY EDGE LIGHT (CONCRETE ENCASED) - HIGH INTENSITY
- M EXISTING RUNWAY EDGE LIGHT - MEDIUM INTENSITY
- X NEW TAXIWAY EDGE LIGHT
- ◇ NEW 3/4" X 10' GROUND ROD
- ◇ SIGN NUMBER - SEE SIGN SCHEDULE, SHEET E14
- ◇ EXISTING AIRPORT SIGN (TO BE CONNECTED TO NEW CIRCUITS)
- NEW SIGN
- RELOCATED SIGN
- NEW HANDHOLE, L-867B
- △ EXISTING BAK-12 BARRIER LIGHT (TO BE CONNECTED TO NEW RUNWAY CIRCUIT)
- ▽ WIND CONE
- TYPE II JUNCTION BOX

WIND CONE CIRCUIT IN THE SAME TRENCH AS R-1. DIVERT TO EDGE OF RSA STA 20+75.77

**LIGHT SCHEDULE**

NUMBER	SYMBOLS	LOCATION	LIGHT DETAILS			
			LIGHT COLOR	LAMP WATTAGE	F.A.A. NUMBER	TRANSFORMER WATTAGE
7	H	R/W 12/30 FLUSH EDGE LIGHT	YELLOW/WHITE	(2)105	L850C	200
44	H	R/W 12/30 EDGE LIGHT	WHITE	120	L862	100
31	H Y/W	R/W 12/30 EDGE LIGHT	YELLOW/WHITE	120	L862	100
16	H R/G	R/W 12/30 THRESHOLD	RED/GREEN	200	L862E	200
8	M R/G	R/W 36 THRESHOLD	RED/GREEN	45	L861E	30/45
37	M	R/W 18/36 EDGE LIGHT	WHITE	30	L861	30/45
139	X	TAXIWAY EDGE LIGHT	BLUE	12	L861T	10/15

ALL TRANSFORMERS 6.6A/6.6A



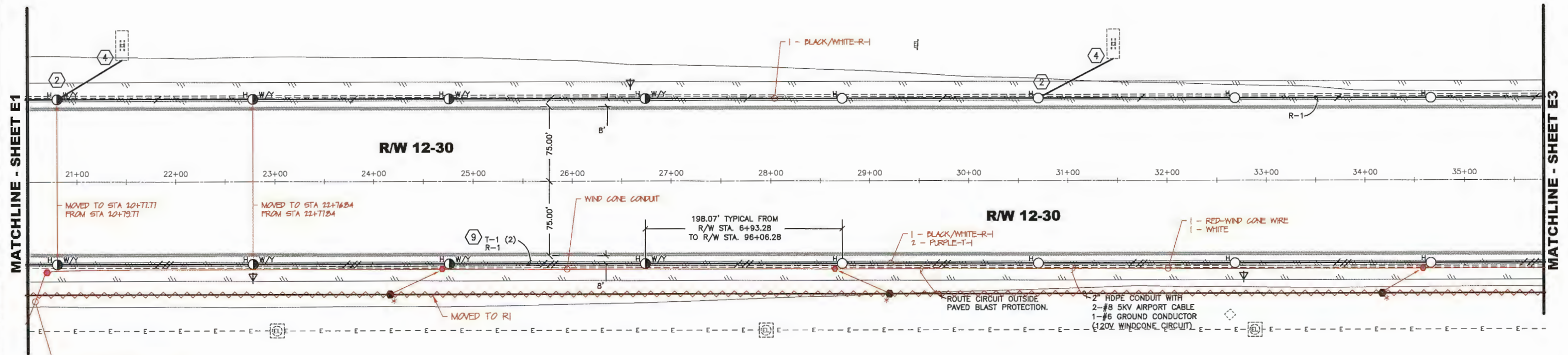
**PLAN PREPARED BY MBA CONSULTING ENGINEERS, INC.**

STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES CENTRAL REGION		DATE: 2/22/2011 SHEET: E1 OF 54 AS-BUILT SHEET: 36 OF 57
DATE: 6/2014 BY: MBA	DATE: 03-18-11 BY: AS-BUILT APPENDIX	REVISION

DATE ORIGINALLY STAMPED 2/18/11



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 Designed By: CUD  
 Drawn By: JMT  
 Checked By: MLL



MOVED TO STA 20+71.71 FROM STA 20+79.71

MOVED TO STA 22+76.84 FROM STA 22+71.84

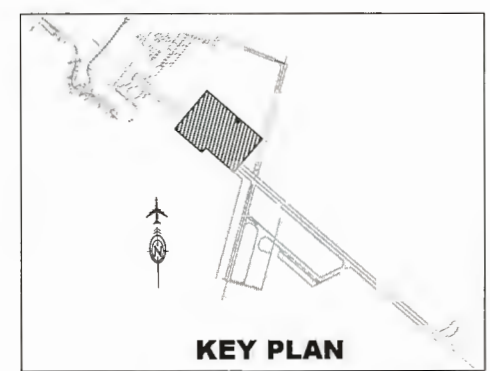
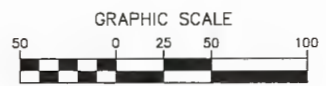
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WIND CONE CONDUIT INSTALLED IN THE SAME TRENCH AS R-1 DIVERT TO EDGE OF RSA @ STA 20+79

198.07' TYPICAL FROM R/W STA. 6+93.28 TO R/W STA. 96+06.28

ROUTE CIRCUIT OUTSIDE PAVED BLAST PROTECTION.

2" HDPE CONDUIT WITH 2-#8 5KV AIRPORT CABLE 1-#6 GROUND CONDUCTOR (120V WINDCONE CIRCUIT)



**LEGEND**  
 \* HAND HOLES RELOCATED

DATE ORIGINALLY STAMPED 2/18/11

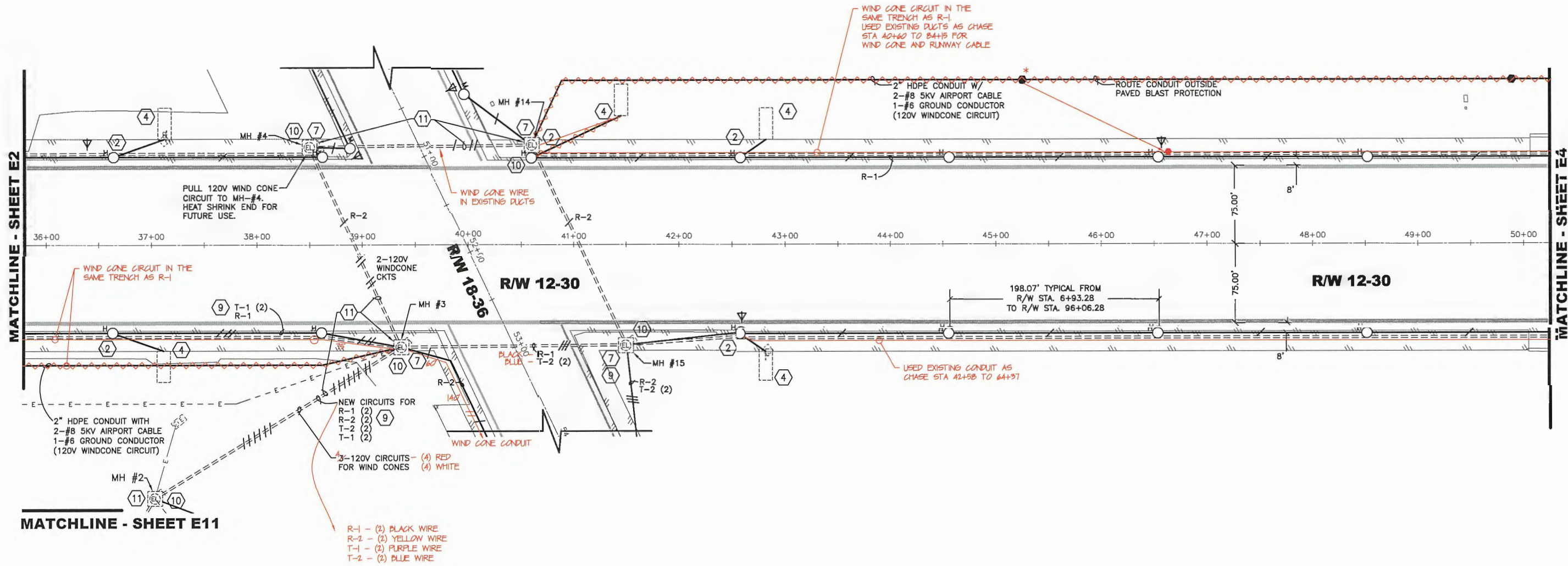
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JMT	6/2014	AS-BUILT

STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION  
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 CENTRAL REGION

KING SALMON AIRPORT  
 KING SALMON, ALASKA  
 AIRPORT LIGHTING  
 PROJECT No. 52673  
 AIP No. 3-02-0148-12-2011  
 RUNWAY 12-30 LIGHTING PLANS

DATE: 2/22/2011  
 SHEET: E2 OF 54  
 AS-BUILT SHEET: 37 OF 57

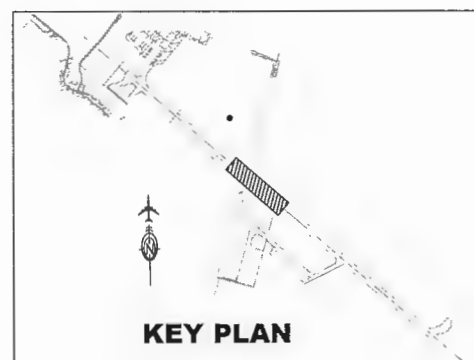
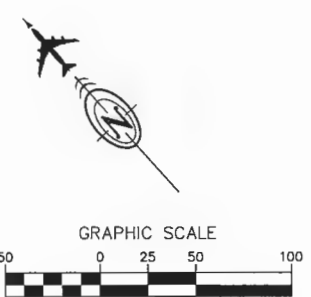
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 DOW FILE No. 234-26  
 Designed By: CMD  
 Drawn By: DMH  
 Checked By: MIL



2" HDPE CONDUIT WITH  
 2-#8 5KV AIRPORT CABLE  
 1-#6 GROUND CONDUCTOR  
 (120V WINDCONE CIRCUIT)

NEW CIRCUITS FOR  
 R-1 (2)  
 R-2 (2)  
 T-2 (2)  
 T-1 (2)

3-120V CIRCUITS - (4) RED  
 FOR WIND CONES (4) WHITE  
 R-1 - (2) BLACK WIRE  
 R-2 - (2) YELLOW WIRE  
 T-1 - (2) PURPLE WIRE  
 T-2 - (2) BLUE WIRE



**LEGEND**  
 \* HAND HOLES RELOCATED

PLAN PREPARED BY MBA CONSULTING ENGINEERS, INC.

DATE ORIGINALLY STAMPED 2/18/11

REV.	DATE	REVISION
1	6/2014	AS-BUILT

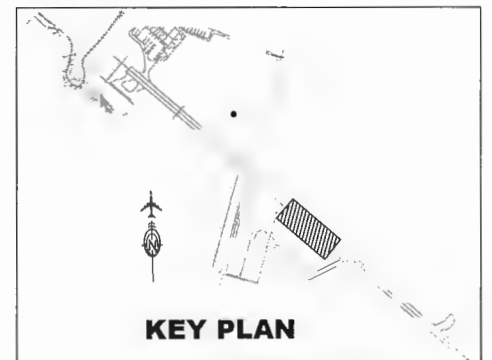
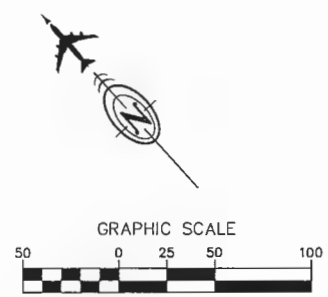
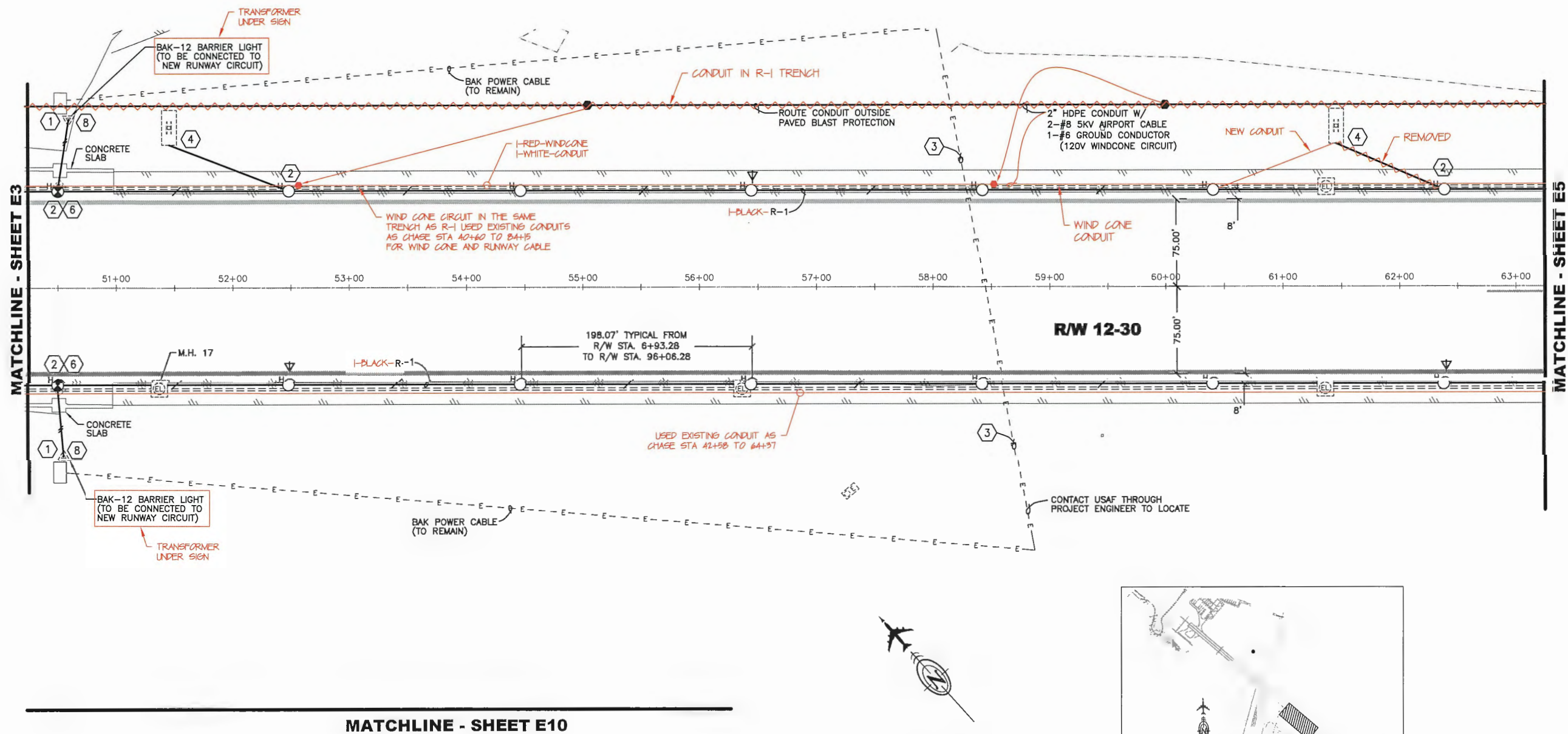
STATE OF ALASKA  
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 CENTRAL REGION

KING SALMON AIRPORT  
 KING SALMON, ALASKA  
 AIRPORT LIGHTING  
 PROJECT No. 52673  
 AIP No. 3-02-0148-12-2011  
 RUNWAY 12-30 LIGHTING PLANS

DATE: 2/22/2011  
 SHEET: E3 OF 54  
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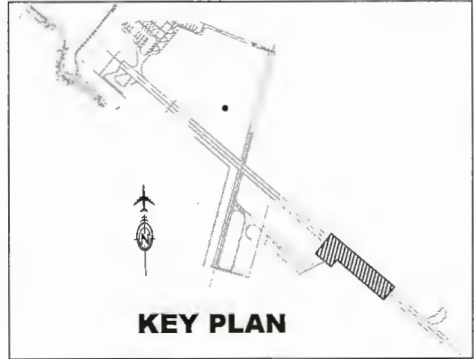
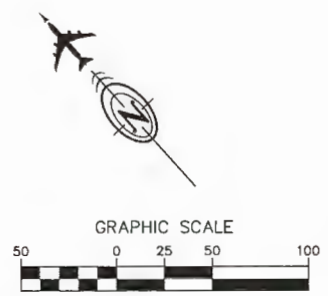
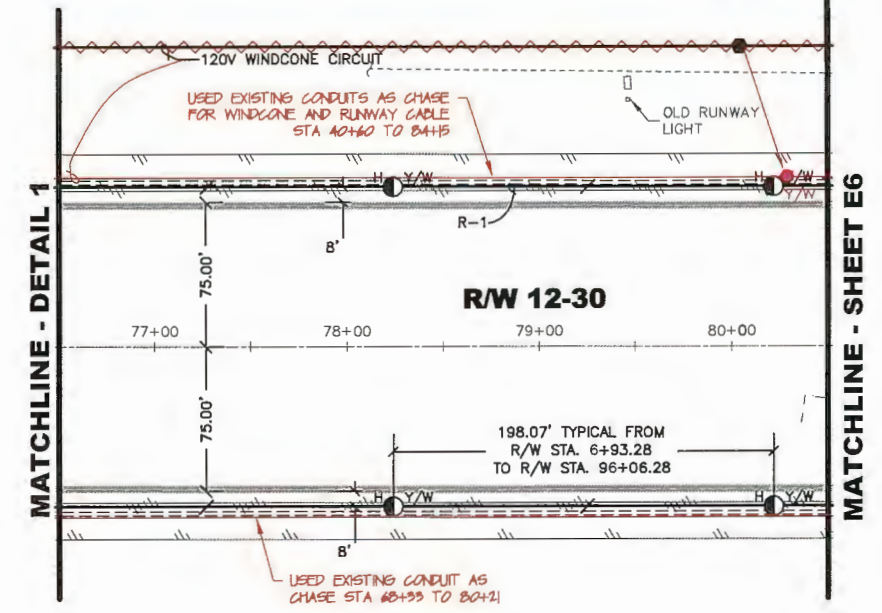
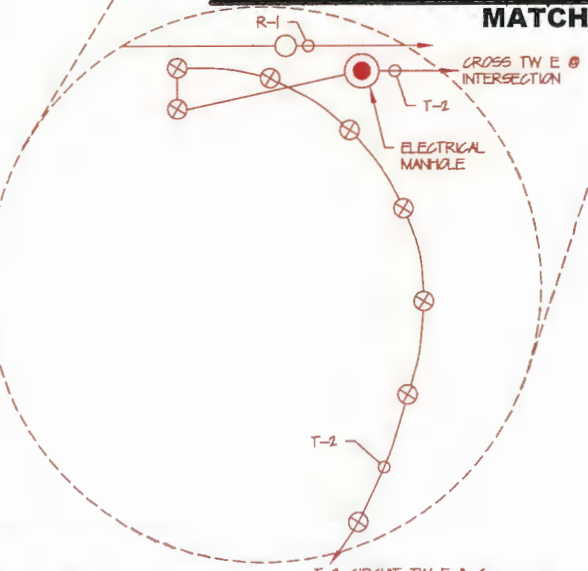
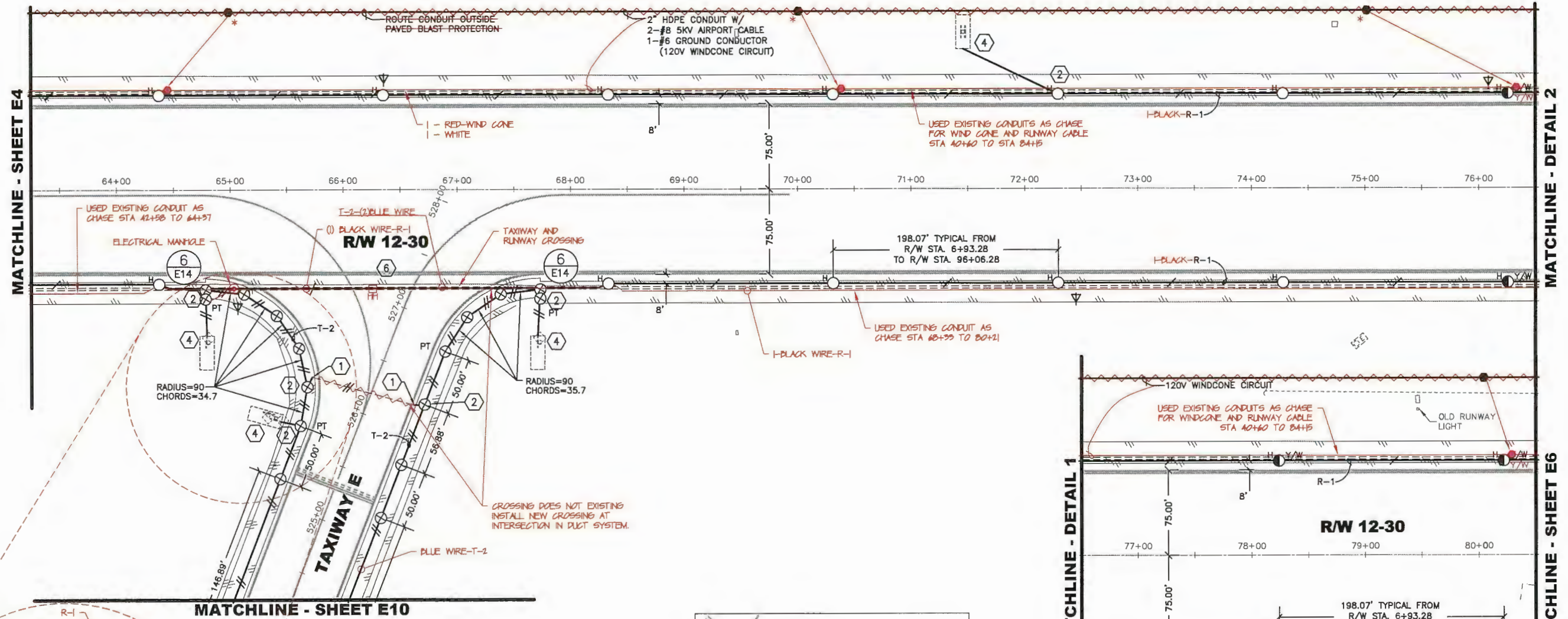
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 CENTRAL REGION

KING SALMON AIRPORT  
 KING SALMON, ALASKA  
 AIRPORT LIGHTING  
 PROJECT No. 52673  
 AIP No. 3-02-0148-12-2011  
 RUNWAY 12-30 LIGHTING PLANS

DATE: 2/22/2011  
 SHEET: E4 OF 54  
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Date Revised: 7/07/2014, 8:46 AM  
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**LEGEND**  
 \* HAND HOLES RELOCATED

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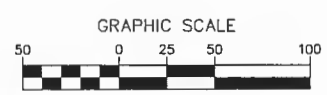
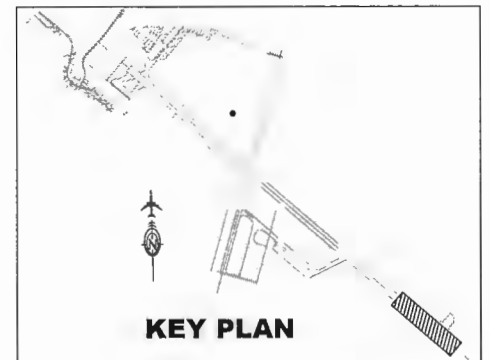
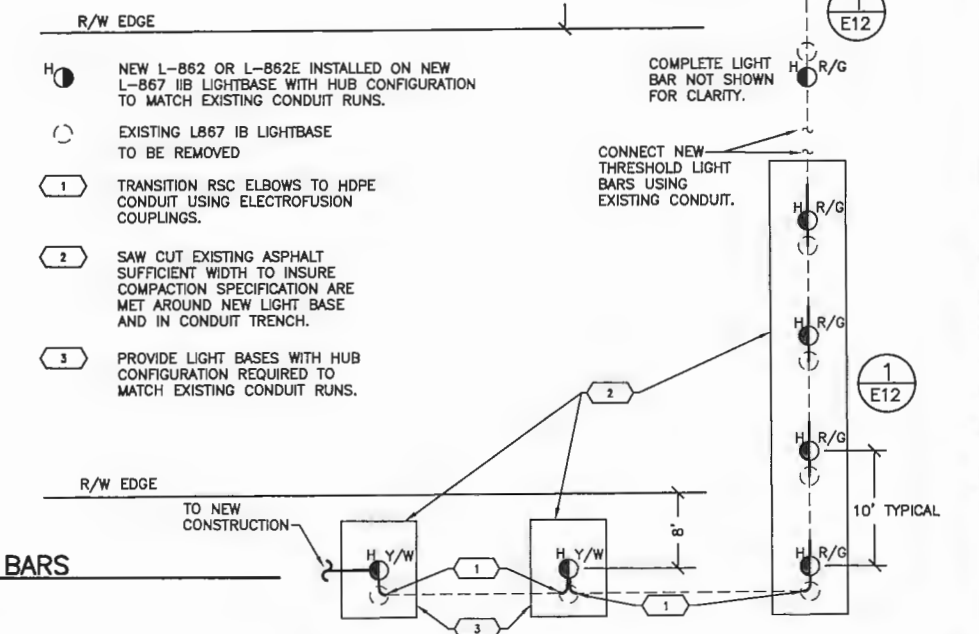
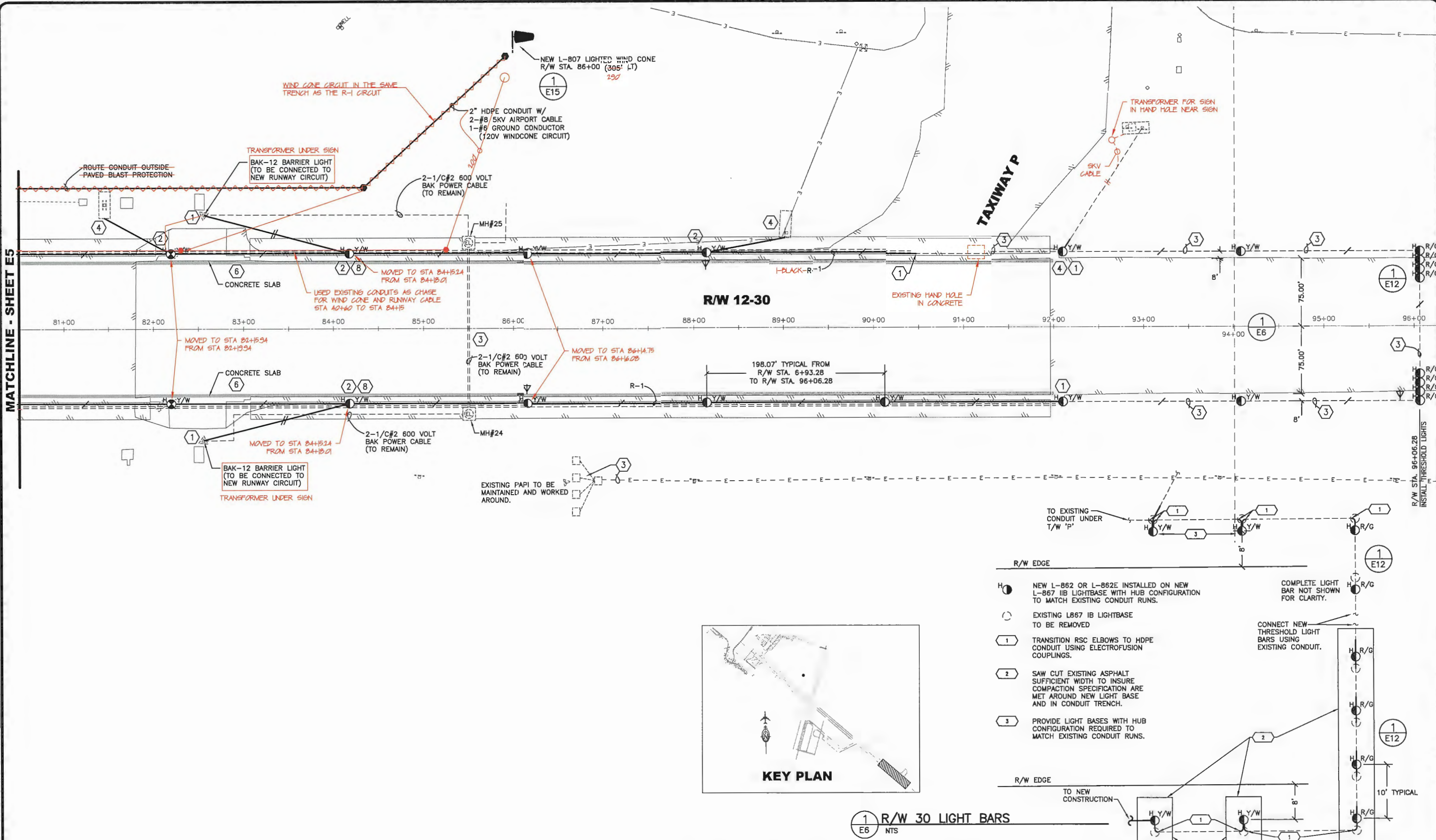
**KING SALMON AIRPORT**  
 KING SALMON, ALASKA  
 AIRPORT LIGHTING  
 PROJECT No. 52673  
 AIP No. 3-02-0148-12-2011  
 RUNWAY 12-30 LIGHTING PLANS

DATE: 2/22/2011  
 SHEET: E5 OF 54  
 AS-BUILT SHEET: 40 OF 57



DWG FILE No. 234-26  
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 CHECKED BY: MIL  
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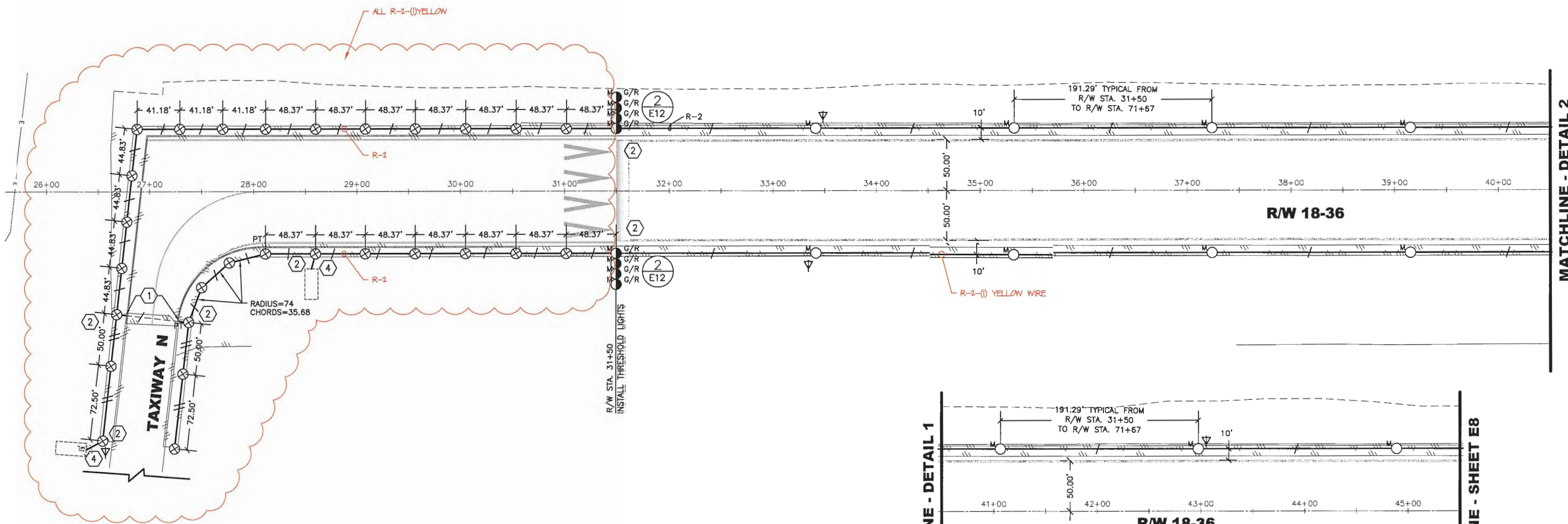
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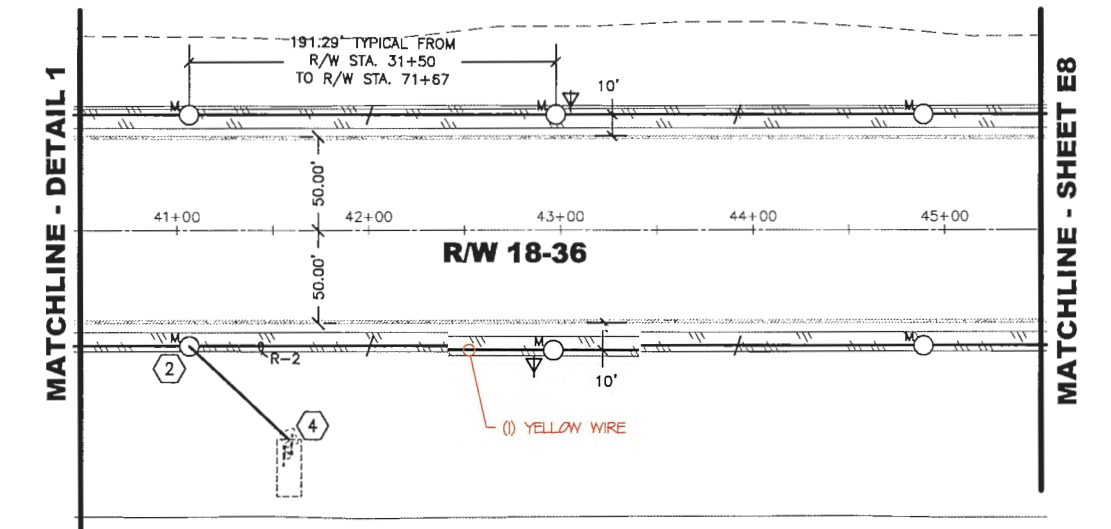
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 KING SALMON, ALASKA  
 AIRPORT LIGHTING  
 PROJECT No. 52673  
 AIP No. 3-02-0148-12-2011  
 RUNWAY 12-30 LIGHTING PLANS

DATE: 2/22/2011  
 SHEET: E6 OF 54  
 AS-BUILT SHEET: 41 OF 57

Date Revised: 7/07/2014, 8:47 AM  
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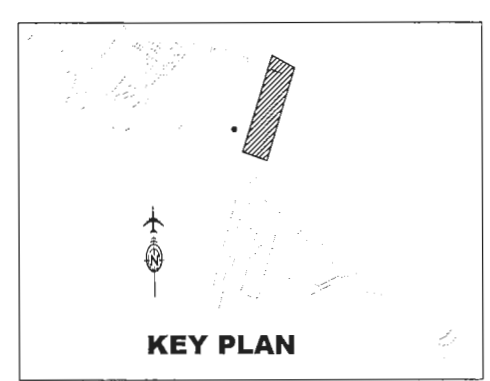
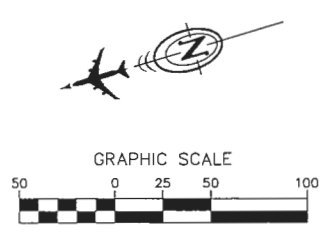


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MATCHLINE - SHEET E8



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NO.	DATE	REVISION
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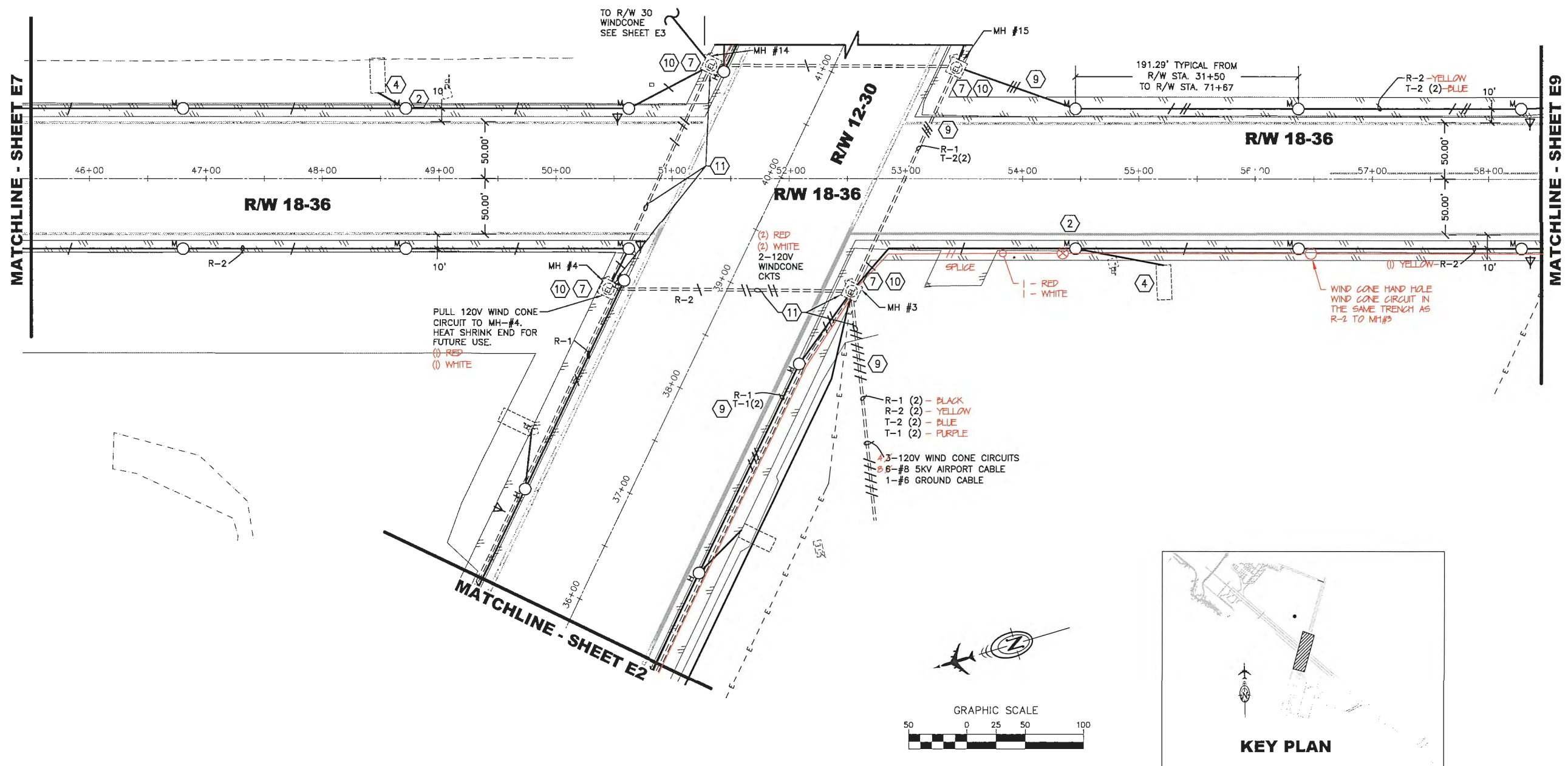
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KING SALMON AIRPORT  
 KING SALMON, ALASKA  
 AIRPORT LIGHTING  
 PROJECT No. 52673  
 AIP No. 3-02-0148-12-2011  
 RUNWAY 18-36 LIGHTING PLANS

DATE: 2/22/2011  
 SHEET: E7 OF 54  
 AS-BUILT SHEET: 42 OF 57



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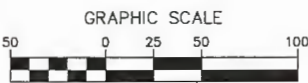
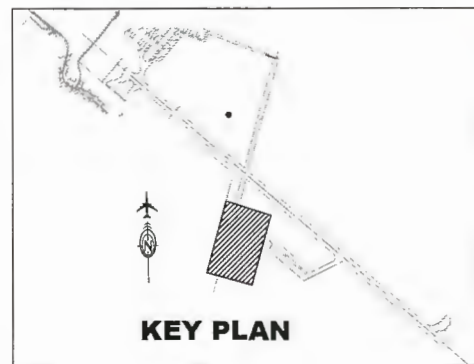
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 CENTRAL REGION

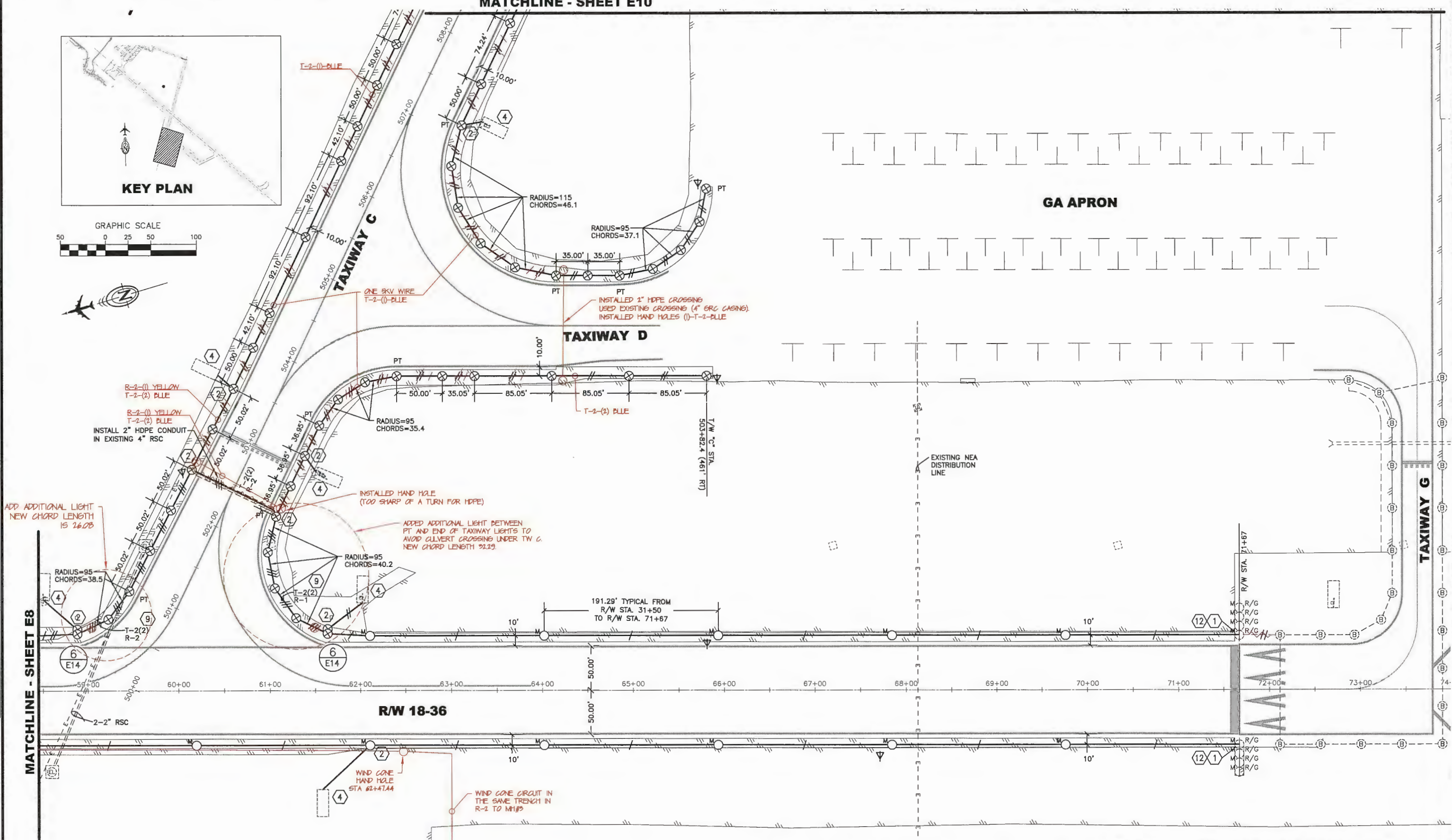
KING SALMON AIRPORT  
 KING SALMON, ALASKA  
 AIRPORT LIGHTING  
 PROJECT No. 52673  
 AIP No. 3-02-0148-12-2011  
 RUNWAY 18-36 LIGHTING PLANS

DATE: 2/22/2011  
 SHEET: E8 OF 54  
 AS-BUILT SHEET: 43 OF 57

MATCHLINE - SHEET E10



7/07/2014, 8:47 AM  
 Date Revised: E9  
 Layout Name: W:\Projects\King Salmon\Lighting\2011\As-Built\From Brian Honan\07041\_E1-E11.dwg  
 File Path and Name: W:\Projects\King Salmon\Lighting\2011\As-Built\From Brian Honan\07041\_E1-E11.dwg  
 SCRIPT FILE:  
 DWT FILE No. 234-26  
 Designed By: CMD  
 Drawn By: DMH  
 Checked By: MLL



SEE SHEET E1 FOR NOTES AND LEGEND

PLAN PREPARED BY MBA CONSULTING ENGINEERS, INC.

DATE ORIGINALLY STAMPED 2/18/11

BY	DATE	REVISION
RL	6/2014	AS-BUILT

STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION  
 AND PUBLIC FACILITIES  
 CENTRAL REGION

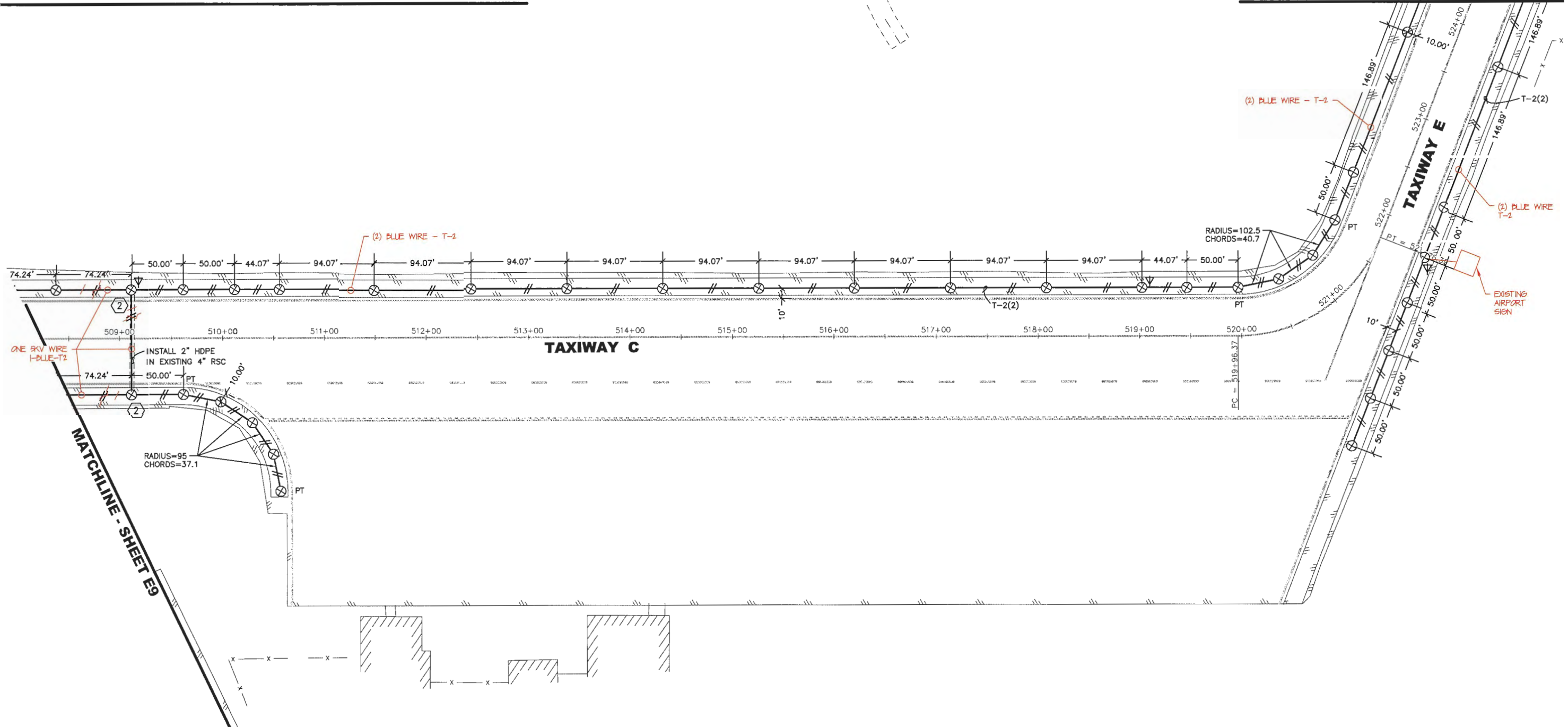
KING SALMON AIRPORT  
 KING SALMON, ALASKA  
 AIRPORT LIGHTING  
 PROJECT No. 52673  
 AIP No. 3-02-0148-12-2011  
 RUNWAY 18-36 LIGHTING PLANS

DATE: 2/22/2011  
 SHEET: E9 OF 54  
 AS-BUILT SHEET: 44 OF 57

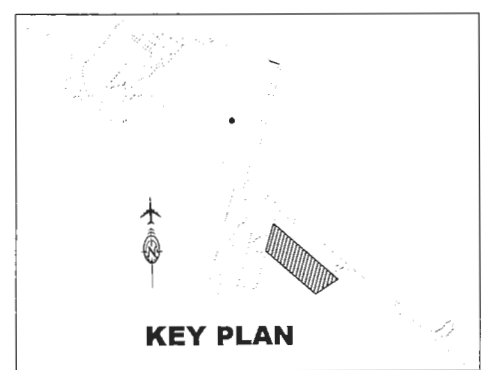
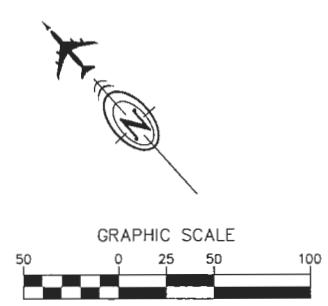


MATCHLINE - SHEET E4

MATCHLINE - SHEET E5



Date Revised: 7/07/2014, 8:47 AM  
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 Script File:  
 Drawn By: DMH  
 Checked By: ML  
 DWG FILE NO: 234-26



DATE ORIGINALLY STAMPED 2/18/11

NO	DATE	REVISION
1	6/2011	AS-BUILT

STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION  
 AND PUBLIC FACILITIES  
 CENTRAL REGION

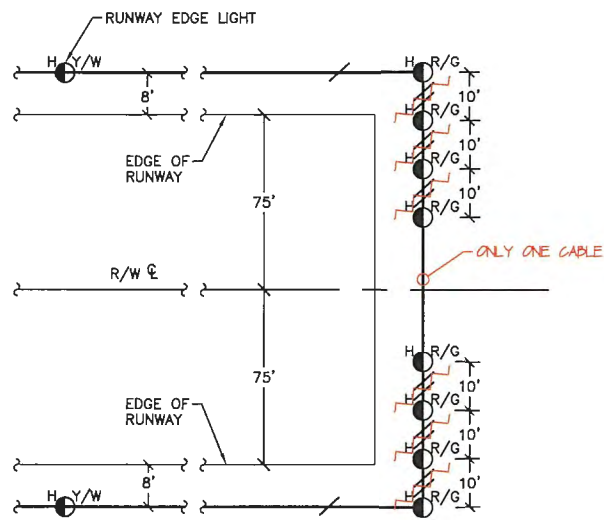
KING SALMON AIRPORT  
 AIRPORT LIGHTING  
 PROJECT No. 52673  
 AIP No. 3-02-0148-12-2011  
 TAXIWAY C AND E LIGHTING PLANS

DATE: 2/22/2011  
 SHEET: E10 OF 54  
 AS-BUILT SHEET: 45 OF 57

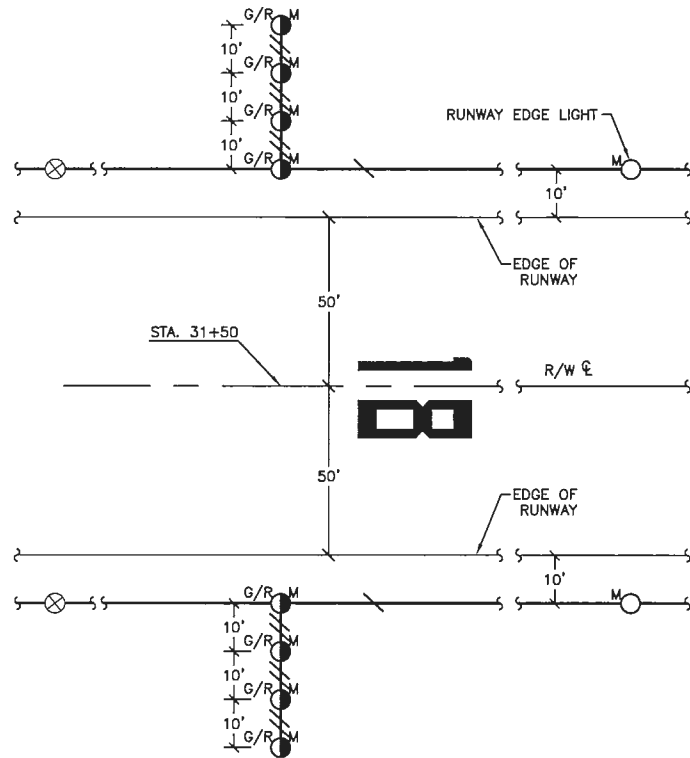




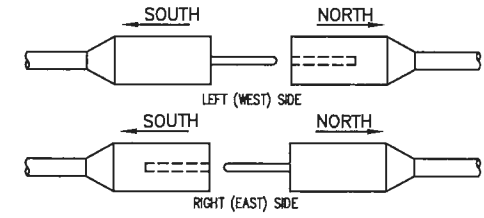
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 Designed By: CMD  
 Drawn By: DMH  
 Checked By: MJL  
 LAMPUSER



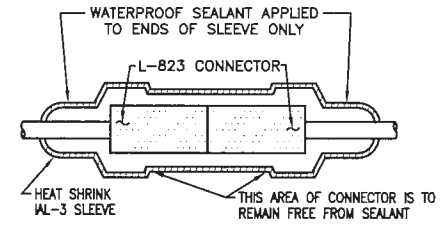
1 R/W 12 & 30 THRESHOLD LIGHTING DETAIL  
E12 NTS



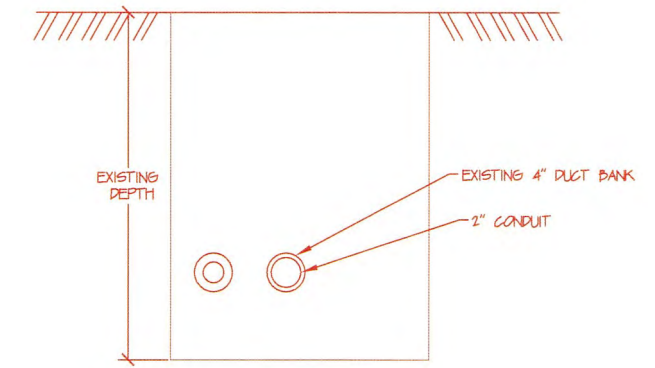
2 R/W 18 THRESHOLD LIGHTING DETAIL  
E12 NTS



ORIENTATION OF L-823 CABLE CONNECTION IN LIGHT BASE DETAIL



3 L-823 CONNECTOR  
E12 NTS

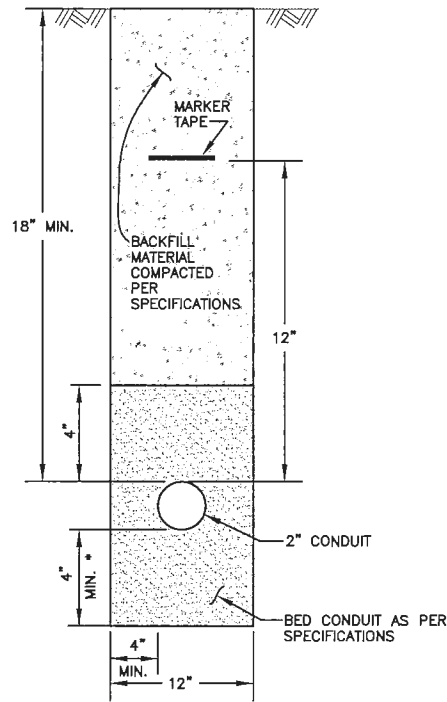


4 4" DUCT BANK USED AS CHASE (NOT USED)  
E12 NTS

STA 42+58 TO STA 64+37  
 STA 68+33 TO STA 80+21 RT  
 STA 40+60 TO STA 84+5 LT

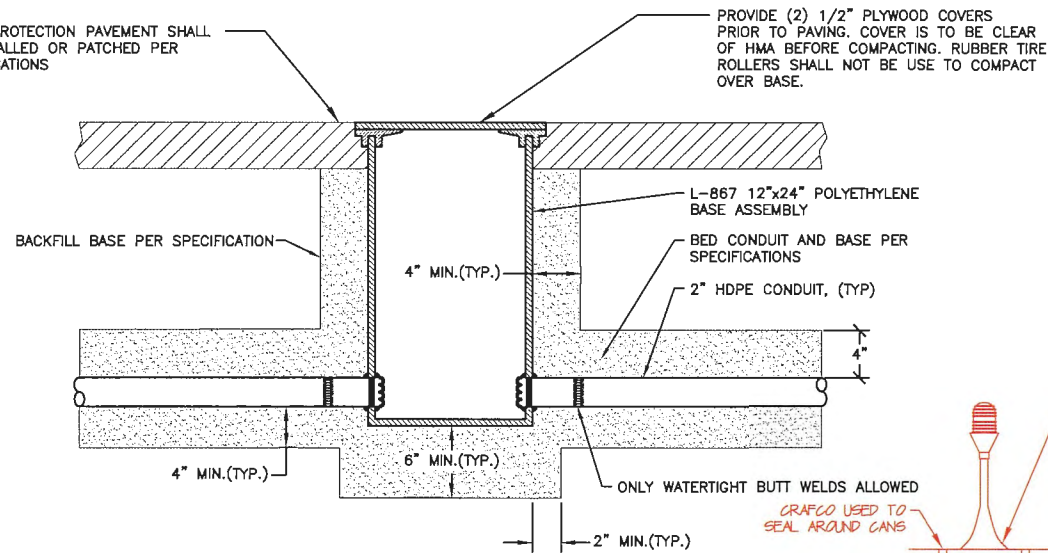
NOTES:

- CONDUITS AND ANY OPENINGS SHALL BE CAULKED TO PREVENT WATER FROM ENTERING THE BASE ASSEMBLIES.
- BASE ASSEMBLIES SHALL BE SEALED WATERTIGHT AND SHALL BE FILLED WITH GILSULATE 500 (AVAILABLE FROM ALASKA INSULATION SUPPLY, INC. ANCHORAGE, ALASKA) OR APPROVED EQUAL.
- THE BASE ASSEMBLIES SHALL BE TYPE L-867, CLASS II, SIZE B, MADE FROM HIGH DENSITY POLYETHYLENE.
- THE CONDUIT STUB SHALL BE SIDEWALL FUSED TO THE BASE ASSEMBLIES AT THE FACTORY USING BRANCH SADDLE FITTING MADE FROM HIGH DENSITY POLYETHYLENE, (AVAILABLE FROM ARCTIC INSULATION & MANUFACTURING ANCHORAGE, ALASKA) OR APPROVED EQUAL.

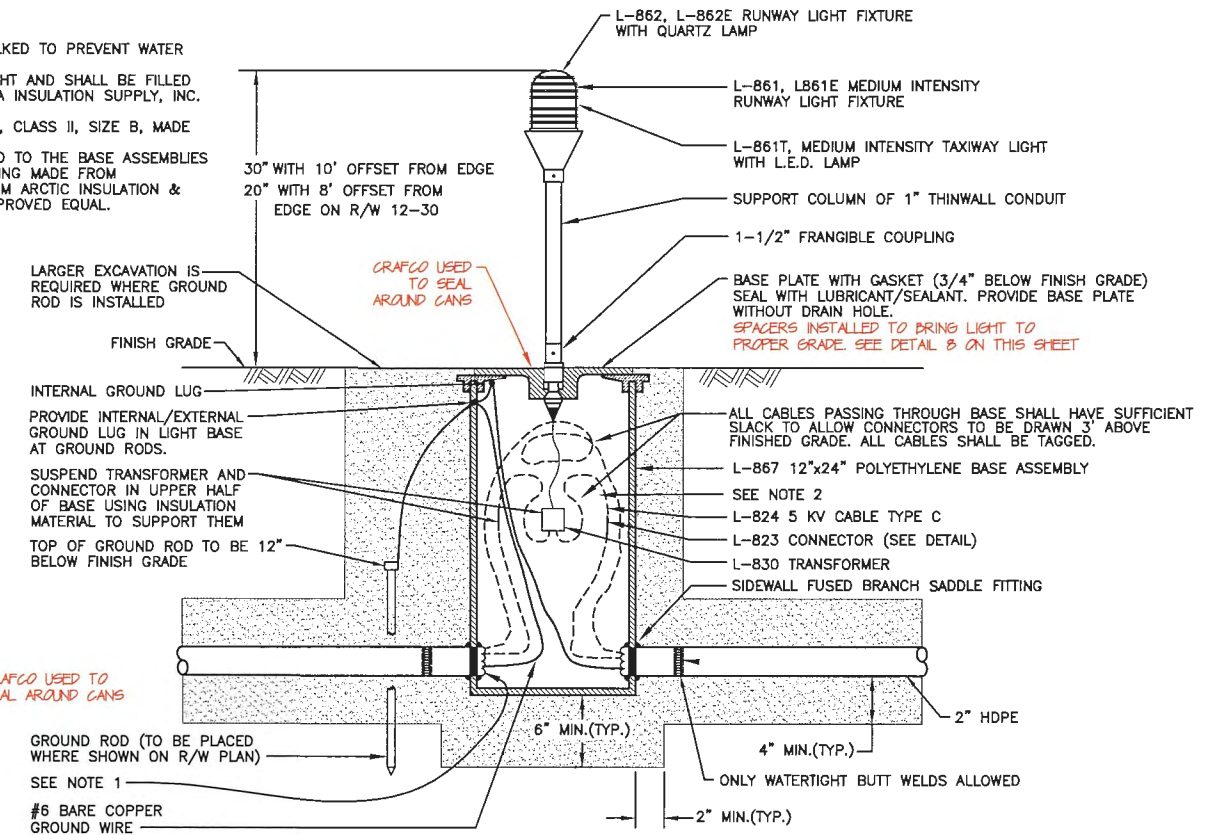


5 CONDUIT TRENCH DETAIL  
E12 NTS

BLAST PROTECTION PAVEMENT SHALL BE INSTALLED OR PATCHED PER SPECIFICATIONS



6 L-867 BASE DETAIL DURING PAVING  
E12 NTS



7 L-867 BASE WITH LIGHT  
E12 NTS

8 L-867 BASE WITH LIGHT EXTENSION  
E12 NTS

DATE ORIGINALLY STAMPED 2/18/11

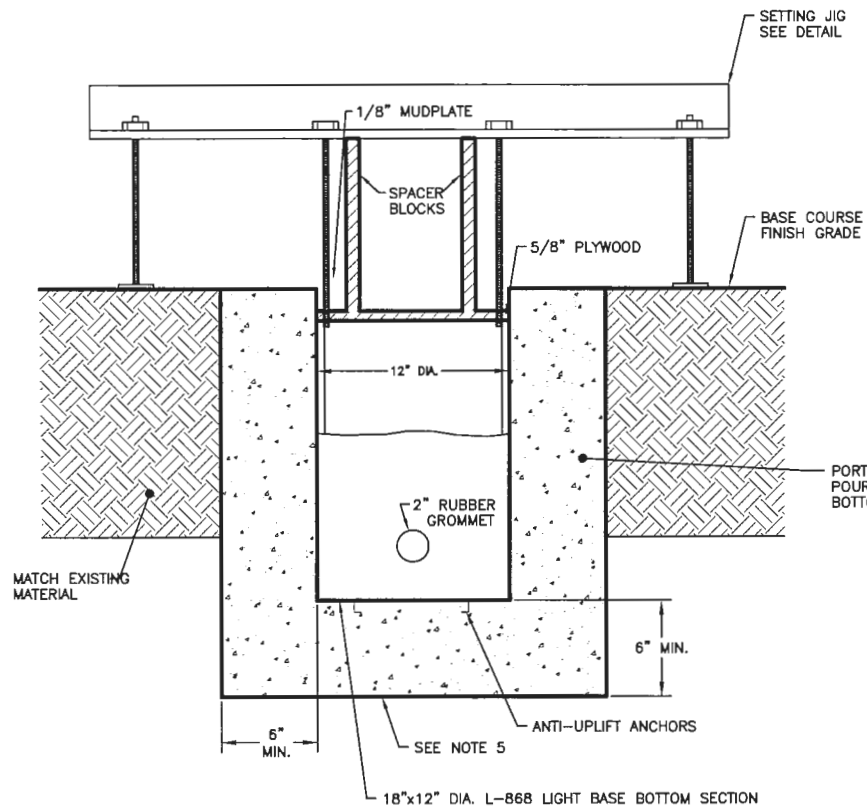
BY	DATE	REVISION
AS-BUILT	6/2014	

STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION  
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 CENTRAL REGION

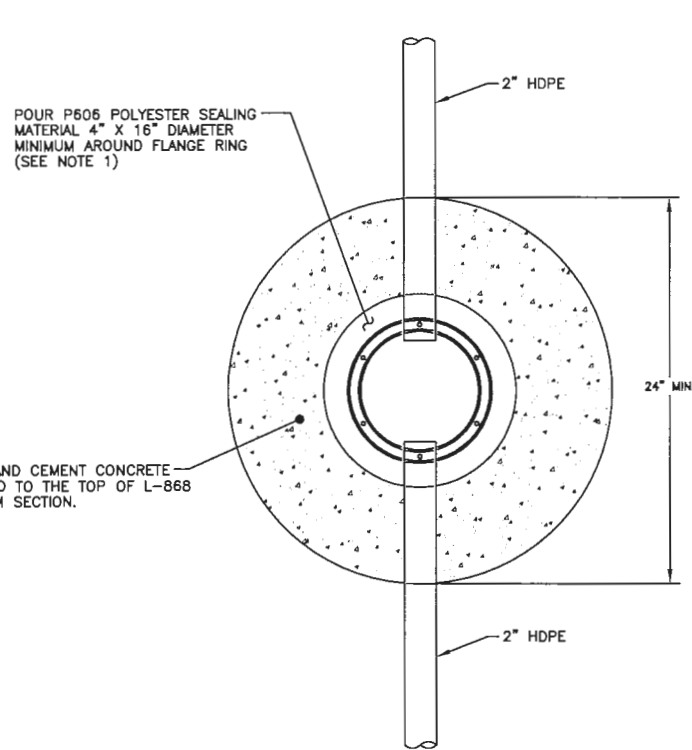
KING SALMON AIRPORT  
 KING SALMON, ALASKA  
 AIRPORT LIGHTING  
 PROJECT No. 52673  
 AIP No. 3-02-0148-12-2011  
 LIGHTING DETAILS

DATE: 2/22/2011  
 SHEET: E12 OF 54  
 AS-BUILT SHEET: 47 OF 57

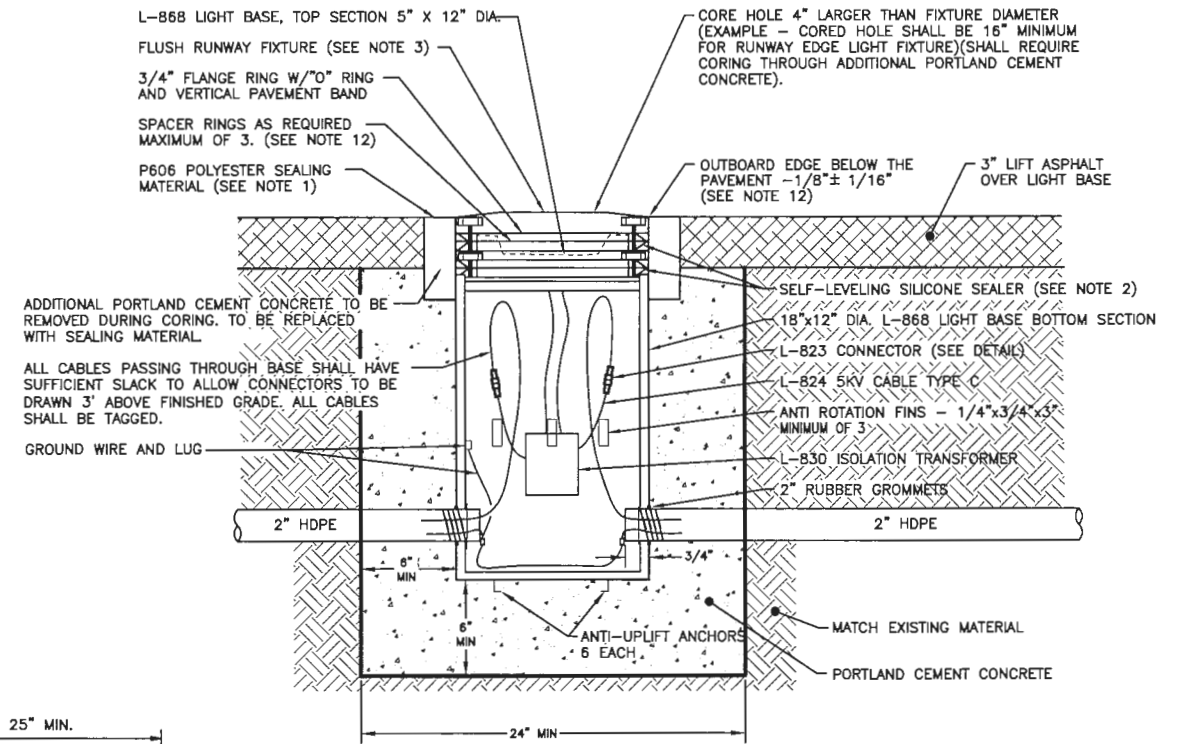
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 File Path and Name: I:\Projects\King Salmon\ain Lighting\2011\As-Built\From Brian\_Hanson\07041\_E13.dwg  
 Designed By: CMD  
 Drawn By: DMH  
 Checked By: MIL



**1 NEW LIGHT BASE INSTALLATION - SECTION**  
 E13 SCALE: NTS

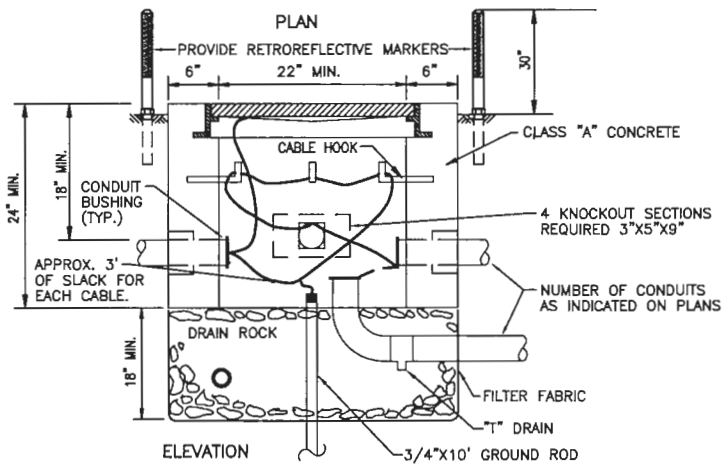
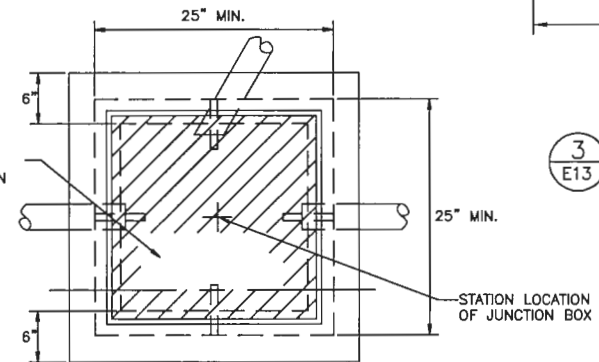


**2 NEW LIGHT BASE INSTALLATION - PLAN VIEW**  
 E13 SCALE: NTS



**3 NEW FLUSH LIGHT BASE ASSEMBLY**  
 E13 SCALE: NTS

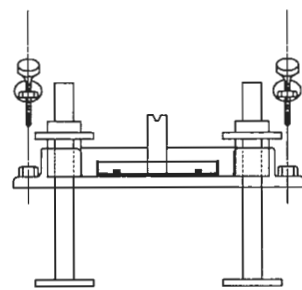
EMBOSSE COVERS OF JUNCTION BOX AS SHOWN ON THE PLANS.



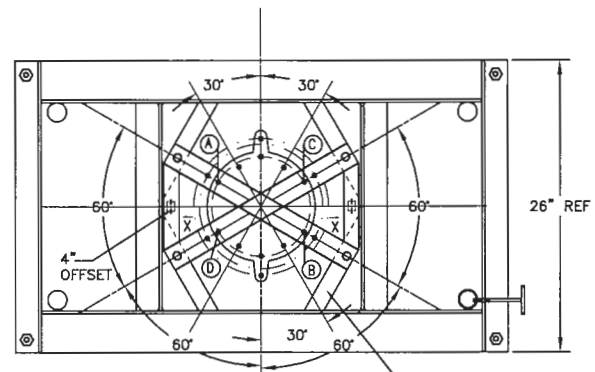
**5 TYPE II JUNCTION BOX DETAIL**  
 E13 SCALE: NONE

**NOTES:**

- POLYESTER SEALING MATERIAL SHALL BE BITUPLASTIC MATERIALS MEETING SPECIFICATION P-606. SURFACE SHALL BE COMPLETELY CLEAN AND DRY BEFORE INSTALLING.
- SELF-LEVELING SILICONE SEALER SHALL BE GE BRAND RTV 118 OR APPROVED EQUAL.
- FIXTURE SHALL BE A FLUSH MOUNT MODEL AND INSTALLATION SHALL BE A DRY-TYPE SYSTEM.
- CONDUIT SYSTEM SHALL BE INSTALLED AT THE SAME GRADE AS THE RUNWAY AND SLOPED TO DRAIN TO THE LOW SPOTS AND DRAINS.
- BOTTOM OF CORED HOLE SHALL BE COMPACTED BEFORE CONCRETE IS POURED.
- A THIRD HUB FOR A CONDUIT DRAIN SHALL BE PROVIDED WHERE SHOWN ON PLANS.
- NOT USED.
- SETTING JIG FOR FIXTURE SHALL BE FROM JAQUITH INDUSTRIES INC. OR APPROVED EQUAL AND SHALL BE SUBSIDIARY TO THE CONTRACT.
- CONCRETE SHALL MEET THE REQUIREMENTS FOR STRUCTURAL CONCRETE (ITEM P-610).
- ALL CONDUIT SHALL BE INSTALLED BEFORE FINAL PAVING OPERATION BEGINS.
- NOT USED.
- CONTRACTOR SHALL INSTALL ONE 1/2" SPACER RING FOR FUTURE ADJUSTMENT AND ANY OTHER SPACER RINGS AS REQUIRED TO MEET FINAL ELEVATION. THESE RINGS ARE SUBSIDIARY TO THE CONTRACT AND NO SEPARATE PAYMENT WILL BE MADE.



END VIEW



SETTING JIG DETAIL

INTERNAL FRAME CAN BE ROTATED 90° FOR ALIGNMENT PURPOSES

**4 SETTING JIG**  
 E13 SCALE: NTS

DATE ORIGINALLY STAMPED 2/18/11

NO.	DATE	REVISION
1	6/2014	AS-BUILT

STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION  
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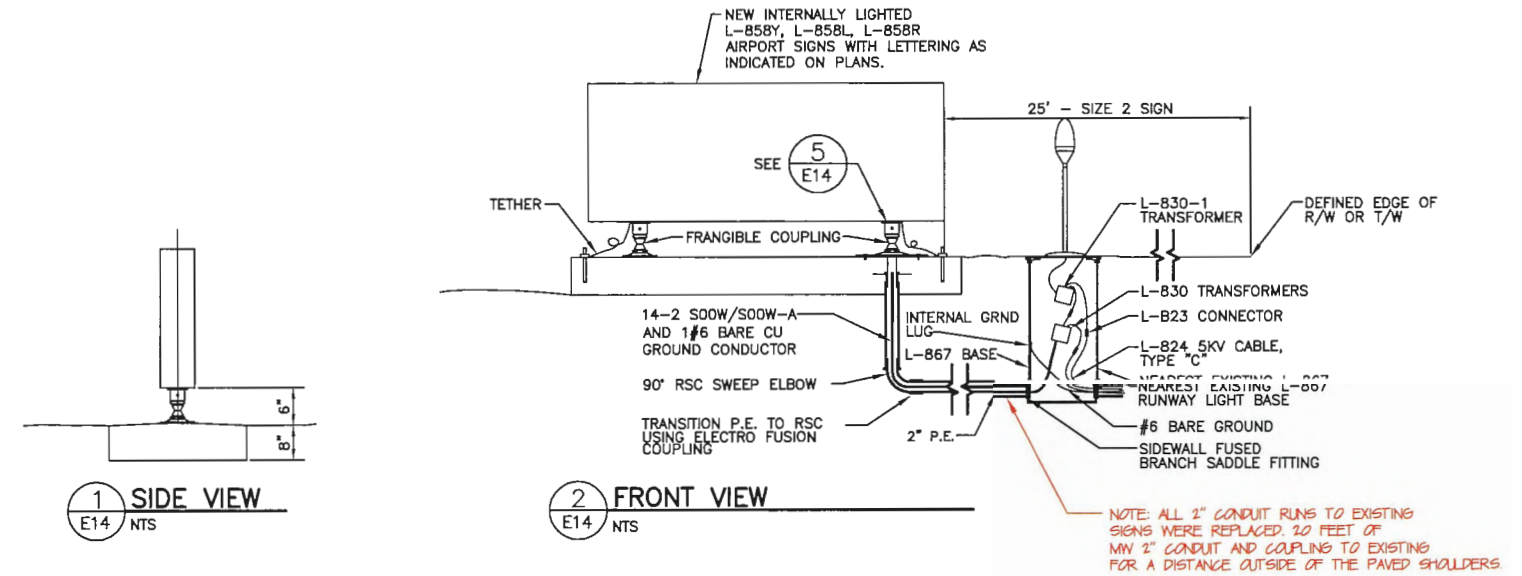
KING SALMON AIRPORT  
 KING SALMON, ALASKA  
 AIRPORT LIGHTING  
 PROJECT No. 52673  
 AIP No. 3-02-0148-12-2011  
 LIGHTING DETAILS

DATE: 2/22/2011  
 SHEET: E13 OF 54  
 AS-BUILT SHEET: 48 OF 57



Date Revised: 7/07/2014, 8:48 AM  
 Layout Name: E14  
 File Path and Name: W:\Projects\King Salmon\Lighting 2011\As-Built\From Brian Hanson\07041\_E14.dwg  
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 Checked By: MIL

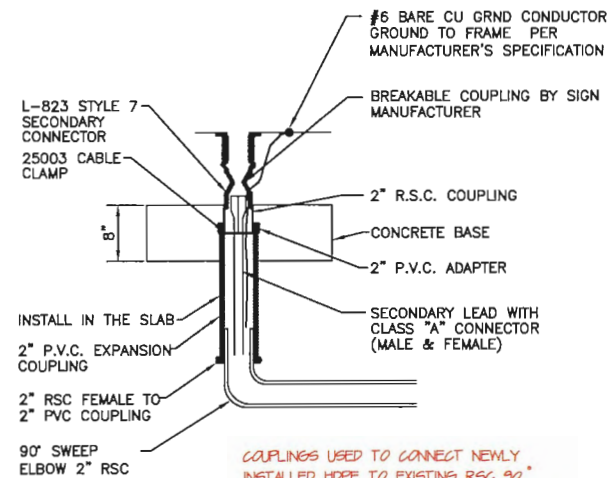
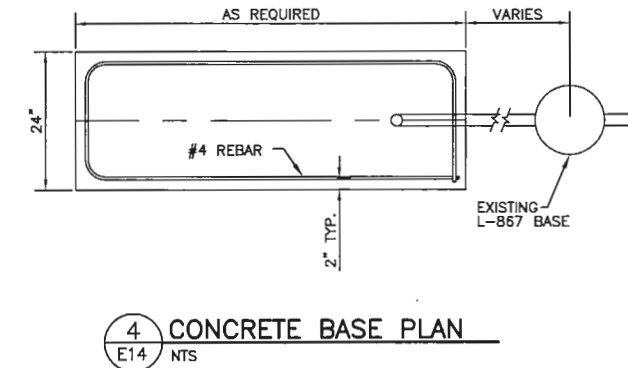
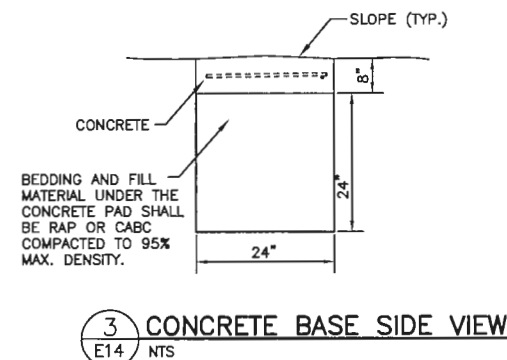
SIGN SCHEDULE								
SIGN No.	PANEL No.	TYPE	PURPOSE	LEGEND	LEGEND COLOR	FACE COLOR	STATIONING	
1	6	L-858L	LOCATION SIGN	A 12 RAMP ↑	YELLOW WHITE BLACK	BLACK RED YELLOW	R/W 12-30 STA. 6+78.0 (250 RT)	NEW SIGN SIZE 2, LED STYLE 2, CLASS 2
	2	L-858R	MANDATORY INSTRUCTION					
	3	L-858Y	INBOUND DESTINATION					
	4							
1	8	L-858L	LOCATION SIGN	B 12 RAMP ↑	YELLOW WHITE BLACK	BLACK RED YELLOW	R/W 12-30 STA. 10+16.1 (250 RT)	NEW SIGN SIZE 2, LED STYLE 2, CLASS 2
	2	L-858R	MANDATORY INSTRUCTION					
	3	L-858Y	INBOUND DESTINATION					
	4							



**NOTES:**

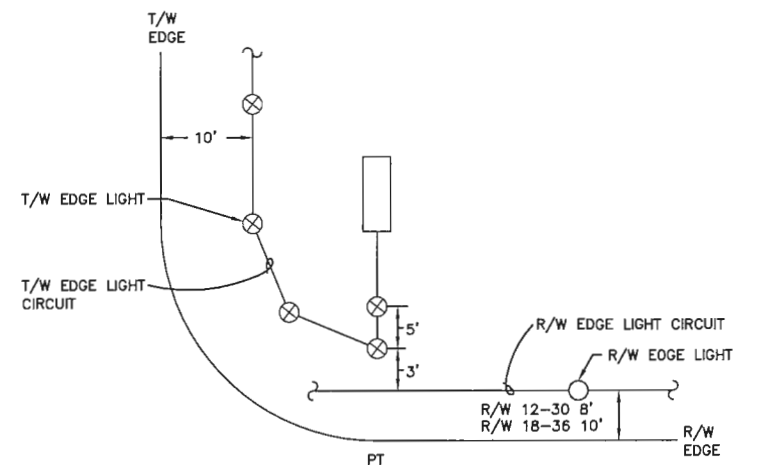
- INSTALL NEW SIGN.
- ALL CIRCUITS 6.6 A
- TRANSFORMER WATTAGE SIZE PER MANUFACTURER'S SPECIFICATION.
- ATTACH SIGNS TO CONCRETE BASE IN ACCORDANCE WITH MANUFACTURE'S INSTRUCTION.
- THE CONTRACTOR SHALL CERTIFY THE CONCRETE BASE IS CONSTRUCTED TO MEET THE SPECIFICATION P610.
- NEW TRANSFORMERS FOR EXISTING SIGNS SHALL BE SUBSIDIARY TO L-100n AND NO SEPARATE PAYMENTS WILL BE MADE.

**L-858 SIGN DETAILS**



COUPLINGS USED TO CONNECT NEWLY INSTALLED HOPE TO EXISTING RSC 90° SWEEP ELBOWS AT BASE OF SIGN. NEW CABLE PULLED FROM RUNWAY INTO SIGNS PER GENERAL ELECTRICAL NOTES SHEET E1

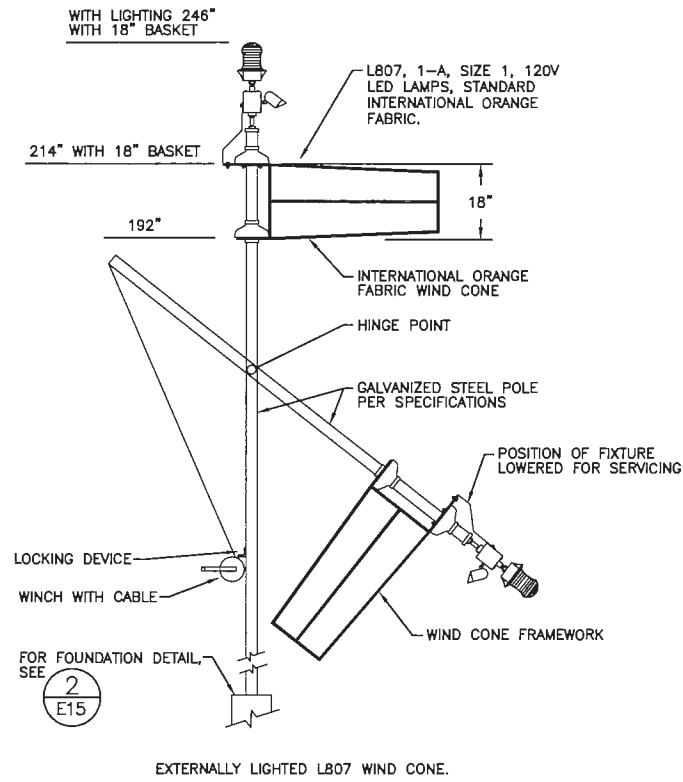
**5 ELECTRICAL CONNECTION DETAIL**  
E14 NTS



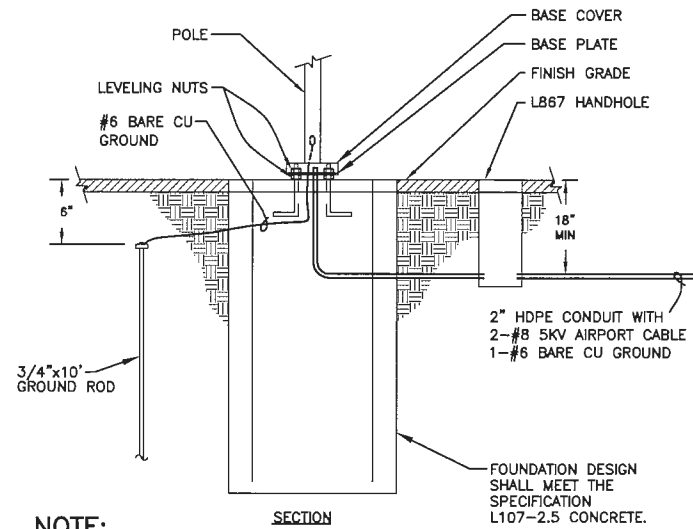
**6 T/W ENTRANCE/EXIT LIGHT LOCATION DETAIL**  
E14 NTS

NO.	DATE	REVISION
1	6/2014	AS-BUILT

Date Revised: 7/07/2014, 8:48 AM  
 Layout Name: E15  
 File Path and Name: W:\Projects\King Salmon\King Salmon Lighting\2011\Submittal\From Brian Hanson\070414\_E15.dwg  
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 Designed By: DMH  
 Drawn By: DMH  
 Checked By: MLL  
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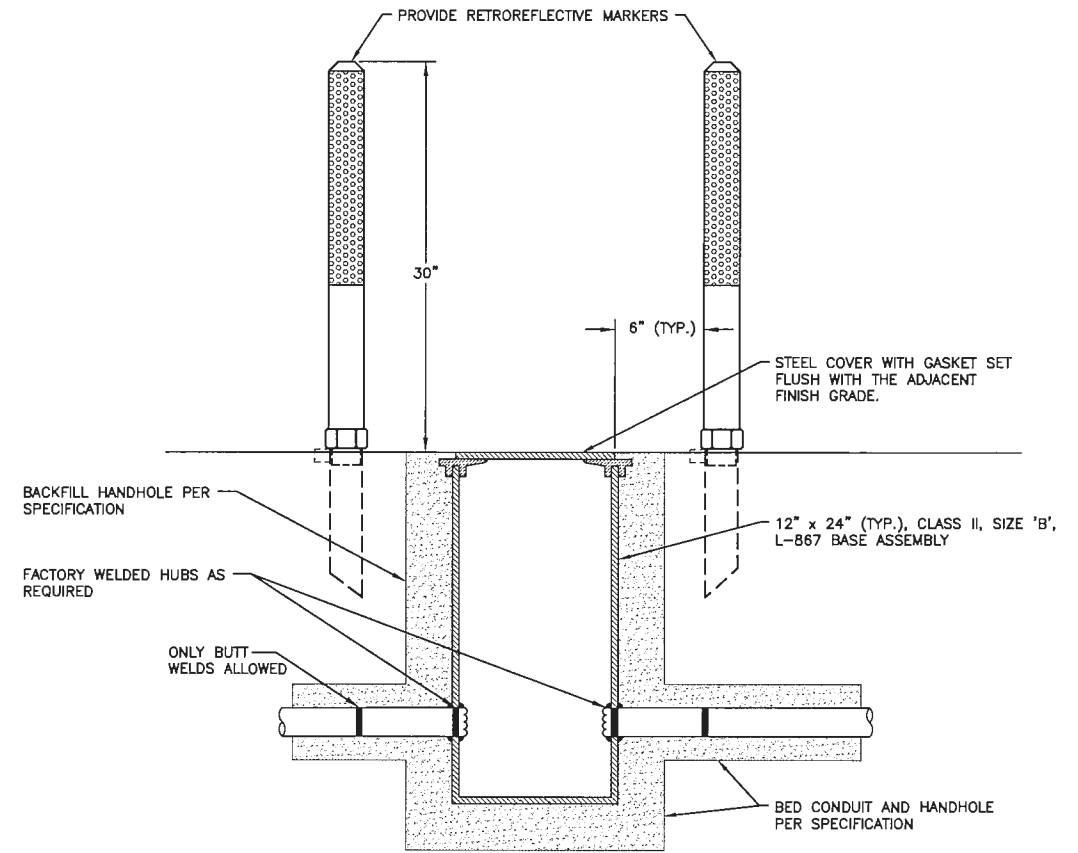


1 L807 LIGHTED WIND CONE DETAIL  
E15 NTS



**NOTE:**  
1. VERIFY ANCHOR BOLT SIZE, BOLT CIRCLE, AND FOUNDATION SIZE WITH MANUFACTURER'S SHOP DRAWINGS.

2 L807 WIND CONE POLE BASE DETAIL  
E15 NTS



3 L867 HANDHOLE, WATERTIGHT  
E15 NTS

DATE ORIGINALLY  
STAMPED 2/18/11

BY	DATE	REVISION
TC	6/2014	AS-BUILT

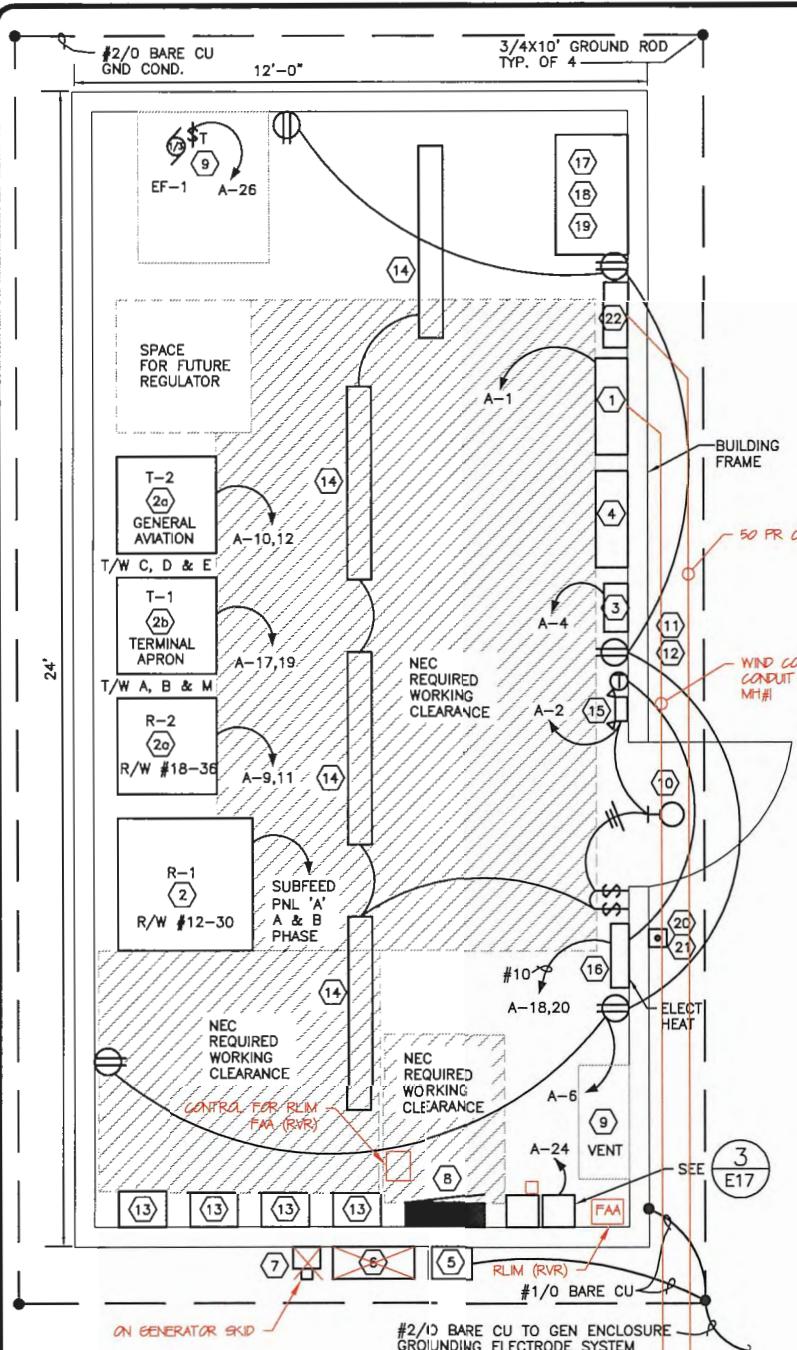
STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION  
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CENTRAL REGION

KING SALMON AIRPORT  
KING SALMON, ALASKA  
AIRPORT LIGHTING  
PROJECT No. 52673  
AIP No. 3-02-0148-12-2011  
WIND CONE DETAILS

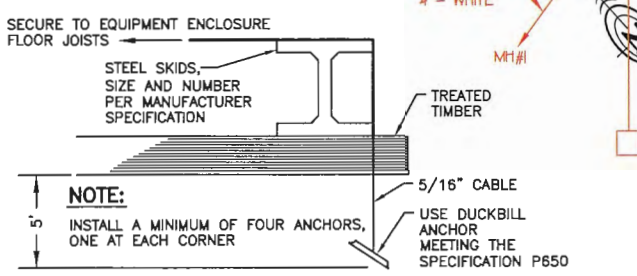
DATE: 2/22/2011  
SHEET: E15 OF 54  
AS-BUILT SHEET:  
50 OF 57



Date Revised: 7/07/2014, 8:48 AM  
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 DWG FILE NO. 234-26  
 Designed By: GMD  
 Drawn By: MHT  
 Checked By: MHT  
 SCRIPT FILE: LAMPFAER



**1 ELECTRICAL ENCLOSURE PLAN**  
E16  
1/2"=1'-0"



**3 ELECTRICAL ENCLOSURE TIE DOWN DETAIL**  
E16 NTS

**EQUIPMENT LIST**

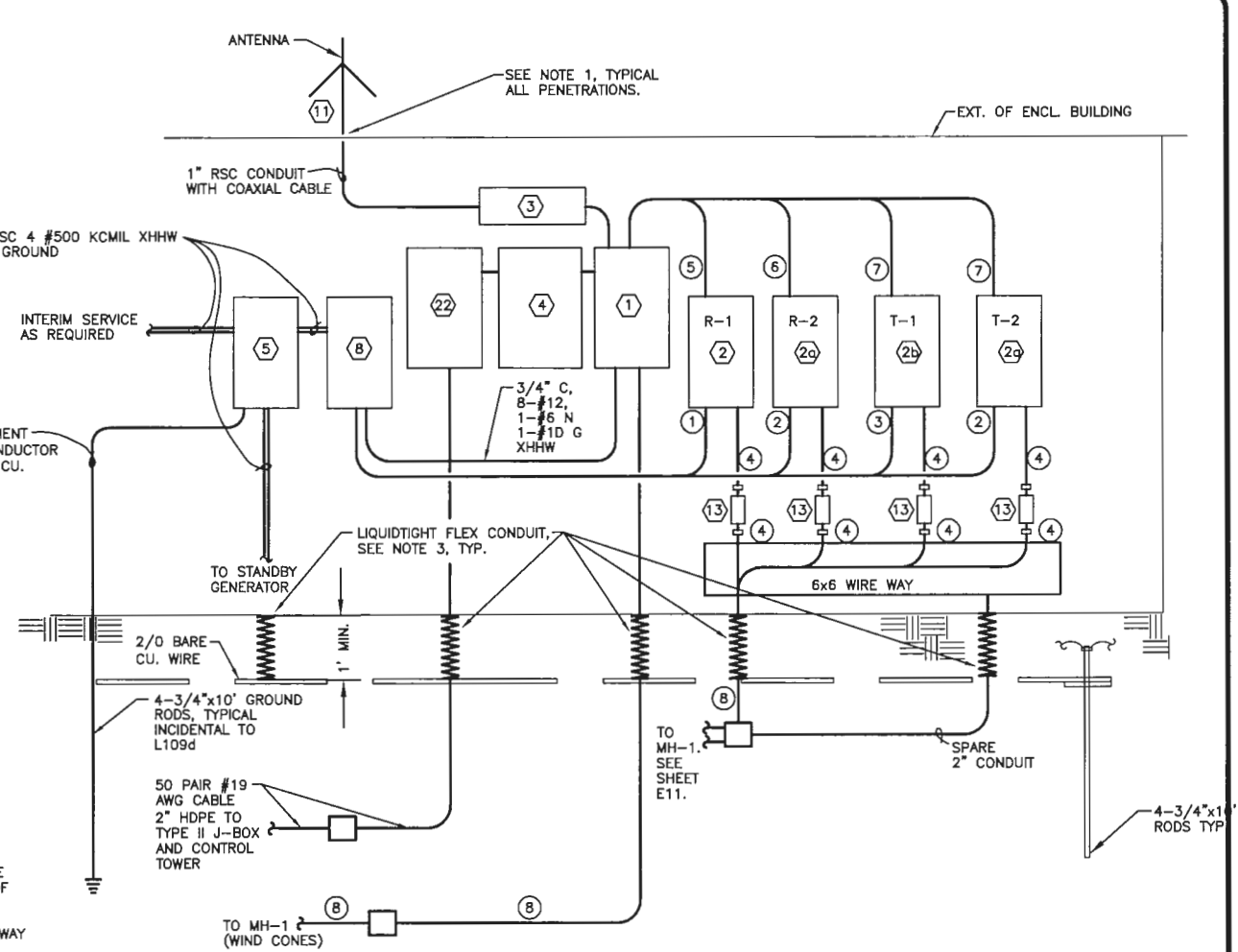
- 1 L-841 RELAY ASSEMBLY, SEE SPECS.
- 2 CONSTANT CURRENT REGULATOR, FERRORESONANT TYPE PROVIDE 30 KW. SUBSIDIARY TO PAY ITEM L-100b.
- 2a CONSTANT CURRENT REGULATOR, FERRORESONANT TYPE PROVIDE 7.5 KW. SUBSIDIARY TO PAY ITEM L-100b.
- 2b CONSTANT CURRENT REGULATOR, FERRORESONANT TYPE PROVIDE 10 KW. SUBSIDIARY TO PAY ITEM L-100b.
- 3 NEW RADIO CONTROLLER-FREQUENCY 121.9 MHZ.
- 4 TRANSFER RELAY ASSEMBLY.
- 5 MAIN SERVICE DISCONNECT, 3 POLE, 300A CIRCUIT BREAKER, 22,000 AIC, WEATHERPROOF.
- 6 CT CABINET.
- 7 METER AND METER BASE. CONTRACTOR TO COORDINATE WITH UTILITY FOR METERING REQUIREMENTS.
- 8 CIRCUIT BREAKER PANEL BOARD (PANEL A) SEE SPECS.
- 9 FOR VENTILATION SEE MECHANICAL DRAWING M-1.
- 10 EXTERIOR WALL PACK WITH 70W HPS LAMP, -40' BALLAST, PHOTOCELL CONTROL.
- 11 RADIO CONTROL ANTENNA - AV-1 OR APPROVED EQUAL.
- 12 PHOTOELECTRIC CONTROL - TORK NO. 2101 OR APPROVED EQUAL.
- 13 PLUG CUTOUT - 5KV, MOUNTED IN 14"x12"x8" NEMA 1 ENCLOSURE WITH HINGED COVER.
- 14 4 FT LONG GENERAL PURPOSE STRIP LIGHTING FIXTURE WITH WIRE GUARD, 2 LAMP, 32 WATT, T8, 120V, ELECTRONIC BALLAST.
- 15 EMERGENCY LIGHT, 2 HEADS, WITH NI-CAD BATTERIES, 90 MIN. RATING, 12W TUNGSTEN HALOGEN LAMPS, INDUSTRIAL RATED.
- 16 4000-WATT 208 VOLT WALL MOUNTED FAN-FORCED ELECTRIC HEATER, SURFACE MOUNT.
- 17 METAL WALL DESK McMASTER'S CARR CATALOG NO. 4796T15 20"x17"x15" OR APPROVED EQUAL. SLOPE TOP WITH PIGEON HOLE SHELVES; OR NO. 4808T18 4.5"x30"x32.5" DESK WITH LOCKING DRAWER OR APPROVED EQUAL. MOUNT DESK TOP AT 43" AFF. (ELBOW HEIGHT WHEN STANDING)
- 18 METAL CHAIR (ADJUSTABLE LEGS) WITH BACK SUPPORT FOR DESK: McMASTER-CARR MODEL 4835T63 OR APPROVED EQUAL.
- 19 METAL WALL CABINET (LOCKABLE) McMASTER-CARR MODEL 4531T26 26.5"x30"x9" WITH 2 SHELVES OR APPROVED EQUAL.
- 20 PUSH BUTTON STATION - GENERAL ELECTRIC NO. CR2943AJ201B OR APPROVED EQUAL.
- 21 SIGN TO READ: PUSH TO TURN RUNWAY LIGHTS ON. AUTO OFF IN 15 MIN.
- 22 COMMUNICATION CABINET, 12x16x6. NEMA 4 WITH 40 SPACE TERMINAL STRIP.

**CONDUIT & CONDUCTOR SCHEDULE**

- 1 2 #3/0 XHHW-2  
1 #6 GRD  
1-1/2" C
- 2 2 #6 XHHW-2  
1 #6 GRD  
1" C
- 3 2 #4 XHHW-2  
1 #6 GRD  
1" C
- 4 2 #8, 5KV AIRPORT CABLE  
1 #6 BARE CU GRD  
1" C
- 5 7 #12 XHHW-2  
1 #12 GRD  
3/4" C
- 6 5 #12 XHHW-2  
1 #12 GRD  
3/4" C
- 7 2 #12 XHHW-2  
1 #12 CU GRD  
3/4" C
- 8 8 #8 5 KV AIRPORT CABLE  
1 #6 BARE CU GRD  
2" C

**SHEET NOTES:**

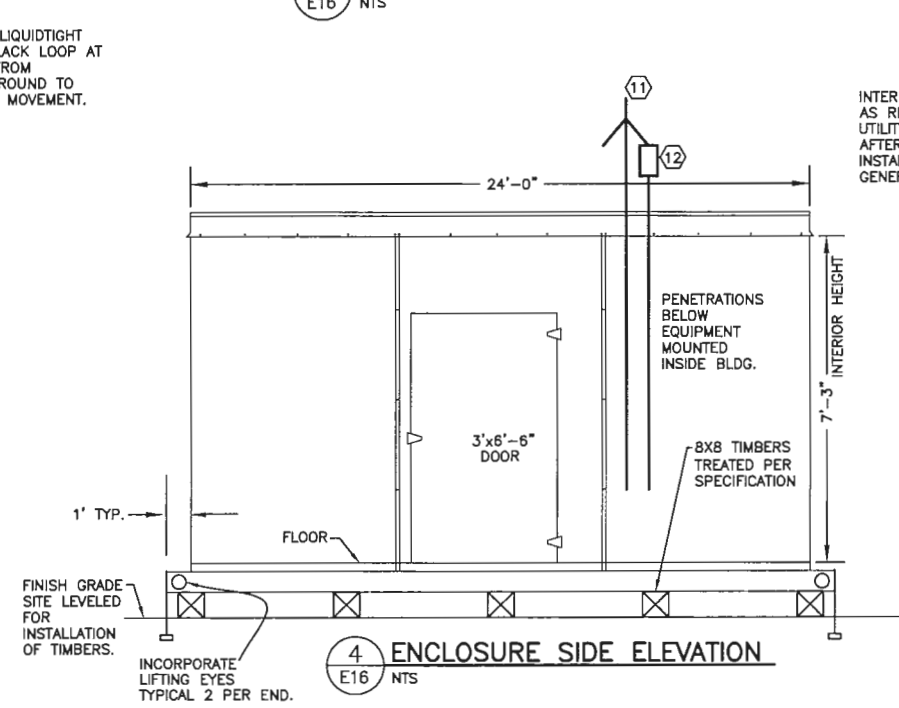
1. RUN CONDUIT ALONG OUTSIDE OF STRUCTURE. ALL PENETRATIONS SHALL BE SEALED WITH SILICONE SEALANT. NO ROOF PENETRATIONS WILL BE ALLOWED.
2. EMT TUBING MAY BE USED AS THE RACEWAY SYSTEM INSIDE THE ENCLOSURE. LIQUID TIGHT FLEXIBLE METAL CONDUIT OR RIGID STEEL CONDUIT ARE TO BE USED FOR OUTDOOR LOCATION. TRANSITION LFMC TO HDPE USING ELECTROFUSION COUPLING OR POLY-CAM ADAPTER.
3. PROVIDE MINIMUM 18 INCH LIQUIDTIGHT FLEXIBLE METAL CONDUIT SLACK LOOP AT ALL CONDUIT TRANSITIONS FROM UNDERGROUND TO ABOVE GROUND TO ACCOMMODATE DIFFERENTIAL MOVEMENT.



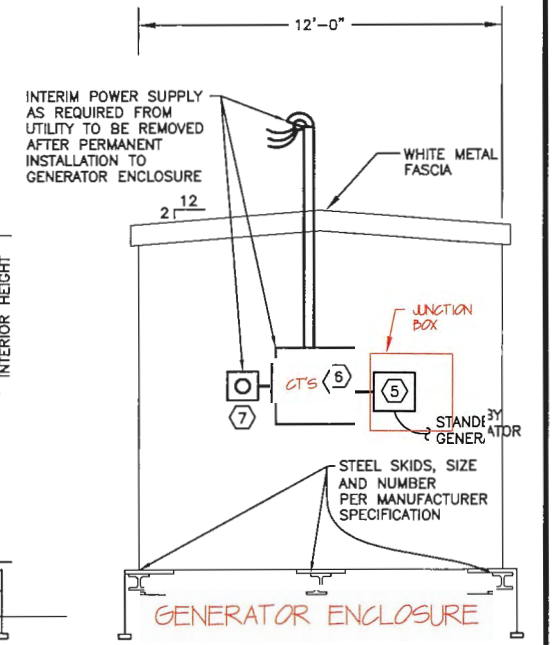
**2 ONE LINE DIAGRAM**  
E16 NTS

**PANEL: A**

CIRCUIT DESCRIPTION	KVA	AMP	CKT	CKT	AMP	KVA	CIRCUIT DESCRIPTION	
L-841 RELAY ASSEMBLY	0.3	20/1	1	2	20/1	0.7	ENCLOSURE LIGHTS	
SPARE		20/	3	4	20/1	0.2	RADIO RECEIVER/CONTROLLER	
SPARE		/2	5	6	20/1	1.0	CONV. OUTLETS	
SPARE		20/1	7	8	20/1		SPARE	
REGULATOR R/W #18-36	5.6	50/	9	10	50/	5.8	REGULATOR T/W #2	
SPARE		/2	11	12	/2			
SPACE			13	14	30/		SPACE	
REGULATOR T/W #1	10	70/	17	18	30/	4.0	4KW ELECT. HEAT	
SPARE		/2	19	20	/2			
SPARE		50/	21	22	20/1	0.2	WIND CONES	
SPARE		/2	23	24	20/1	0.2	FAA EQUIPMENT	
SPARE		20/	25	26	15/1	0.9	FAN EF-1 (1/3 HP)	
SPARE		/2	27	28	20/1		SPACE	
SPACE		20/1	29	30	20/1		SPACE	
SPACE		20/1	31	32	20/1		SPACE	
SPACE		20/1	33	34			SPACE	
SPACE			35	36			SPACE	
SPACE			37	38			SPACE	
SPACE			39	40			SPACE	
SPACE			41	42			SPACE	
CONNECTED LOAD:	51.1 KVA	142 A	REMARKS:					
DEMAND LOAD:	51.1 KVA	142 A	* R/W 12-30 REGULATOR SHALL BE FED USING 200A,					
DEMAND + CONT.	63.9 KVA	178 A	2 POLE SUBFEED CIRCUIT BREAKER ON 'A' AND 'B'					
DATE:			PHASES AT 22.2 KVA LOAD. PANEL LOADING MUST BE					
REV:			BALANCED AS PRACTICAL.					



**4 ENCLOSURE SIDE ELEVATION**  
E16 NTS



**5 ENCLOSURE END ELEVATION**  
E16 NTS

DATE ORIGINALLY STAMPED 2/18/11

DATE	REVISION
6/2014	AS-BUILT

STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION  
AND PUBLIC FACILITIES  
CENTRAL REGION

KING SALMON AIRPORT  
KING SALMON, ALASKA  
AIRPORT LIGHTING  
PROJECT No. 52673  
AIP No. 3-02-0148-12-2011  
ELECTRICAL ENCLOSURE PLAN  
AND ONE-LINE DIAGRAM

DATE: 2/22/2011  
SHEET: E16 OF 54  
AS-BUILT SHEET: 51 OF 57



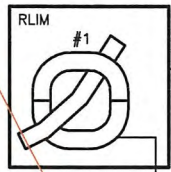
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 Script File: LANGUAGER  
 Designed By: CUD  
 Drawn By: DNH  
 Checked By: MIL

PANEL: GP

PROJECT: KING SALMON AIRPORT - BLDG.  
 LUGS  SURF  THRUFEED LGS  SUBFEED BKR   
 CB  FLSH  SHNT TRP  ISO GRND BAR   
 SBFD LGS  SOLID NEUTRAL

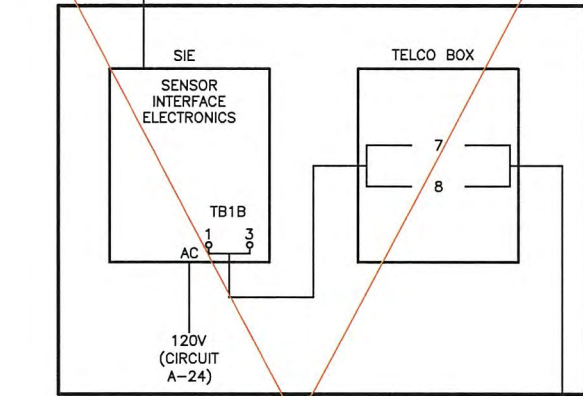
120/208 VOLTS		3 PH		4 WIRE		100 AMP		22000 AIC	
CIRCUIT DESCRIPTION	KVA	AMP	CKT	CKT	AMP	KVA	CIRCUIT DESCRIPTION		
SPARE		20/1	1	2	20/1	0.3	INTERIOR LIGHTS		
BATTERY BLANKET	0.5	20/1	3	4	20/1	0.2	EXTERIOR LIGHTS		
BATTERY CHARGER	0.5	20/1	5	6	20/1	0.6	RECEPTACLES		
ENGINE COOLANT HEATER	1	20/1	7	8	20/1	0.5	EXTERIOR ALARM STROBE		
BUILDING HEATER	4.0	30/	9	10	20/1		SPARE		
		/2	11	12			SPACE		
			13	14			SPACE		
			15	16			SPACE		
			17	18			SPACE		
			19	20			SPACE		
	7.6 KVA	21 A					REMARKS:		
DEMAND LOAD:	7.6 KVA	21 A					BOLT-ON CBS, 40/3 MAIN CB.		
DEMAND + CONT.	9.5 KVA	27 A					SQUARE D TYPE NQOD OR EQUAL.		
DATE:									
REV:									

RUNWAY LIGHT CURRENT SENSOR  
 SEE SHEETS E19A-E20A



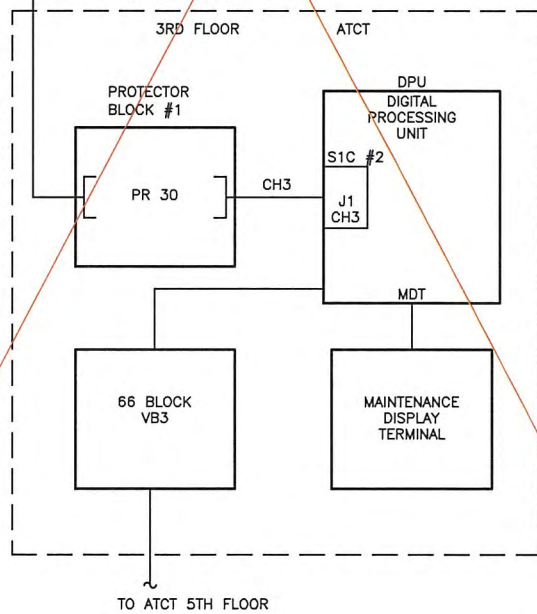
INSTALL CT IN 6x6 WIREWAY UNDER CUTOFF FOR CIRCUIT R-1, R/W 12-30 EDGE LIGHTS.

ELECTRICAL ENCLOSURE BUILDING



NEW COMMUNICATION/DATA CABLE PAID FOR UNDER L-108m.

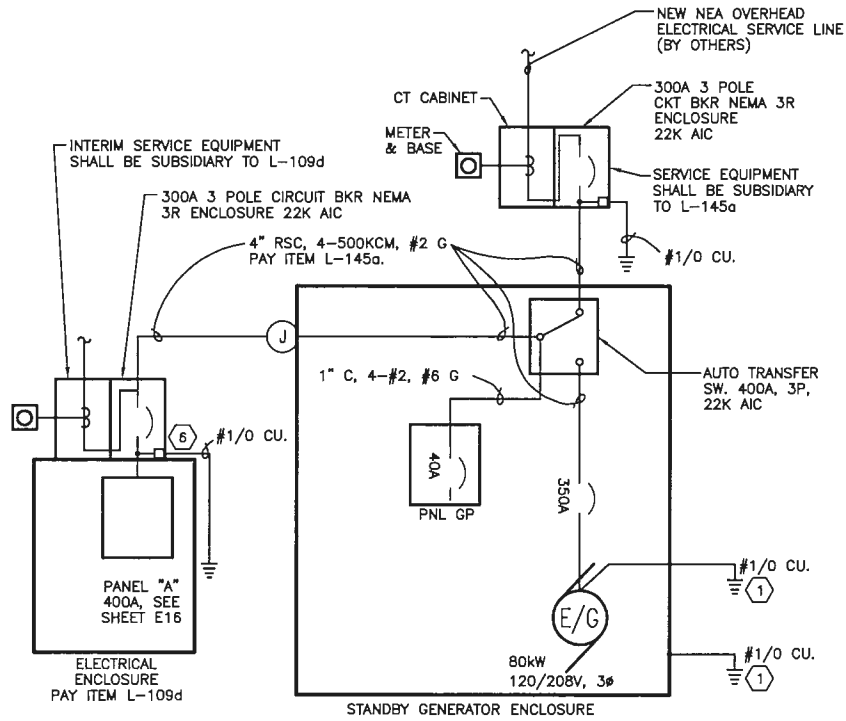
TRAFFIC CONTROL TOWER



3 RUNWAY LIGHT INTENSITY MONITOR ONE-LINE DIAGRAM

E17 NTS

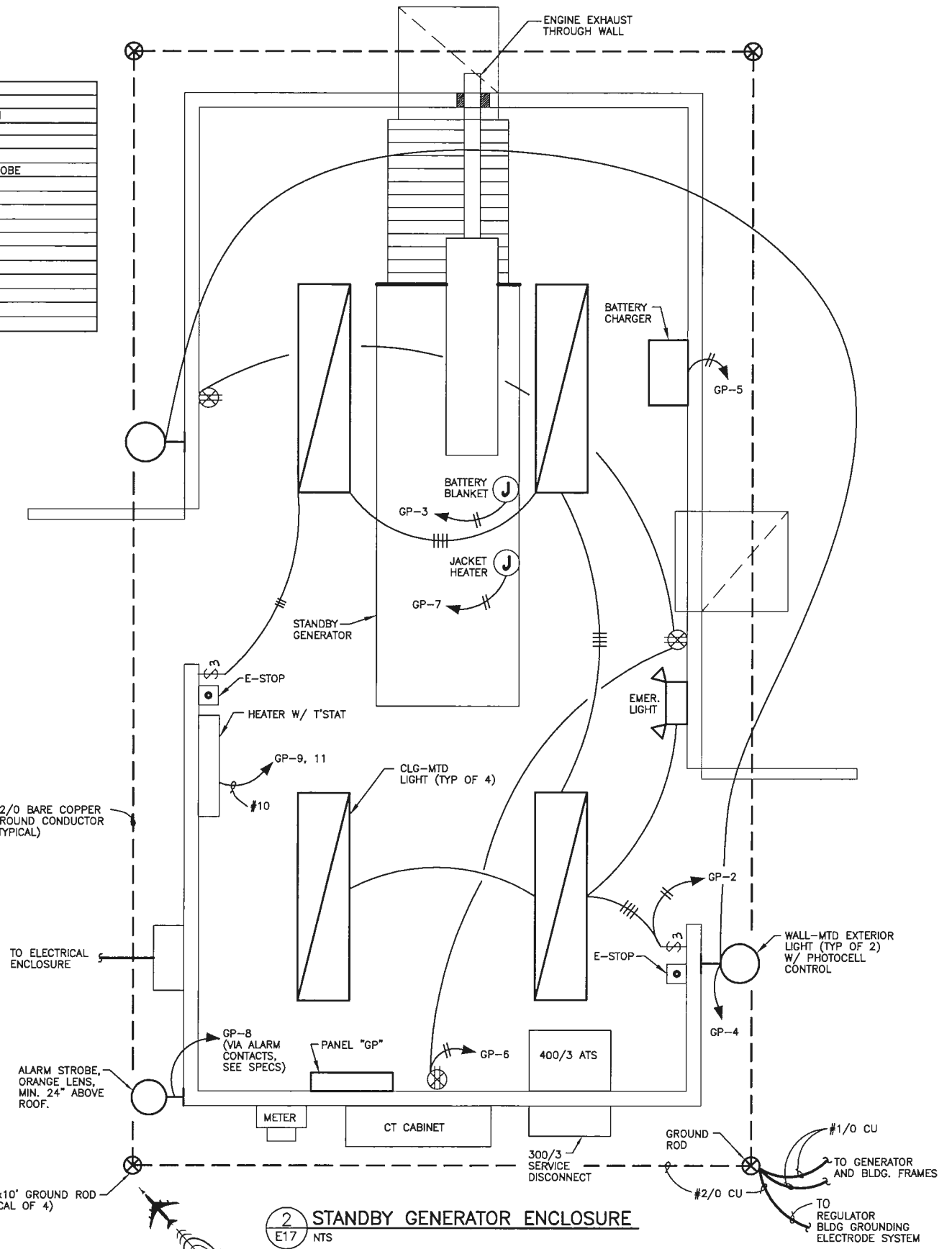
NOTE:  
 RELOCATION OF SENSOR, INTERFACE AND TELCO BOX TO NEW LIGHTING VAULT SHALL BE PAID FOR UNDER L-135b.



1 ONE-LINE DIAGRAM

E17 NTS

- NOTES:
- BOND GENERATOR FRAME AND GENERATOR ENCLOSURE FRAME TO GROUNDING ELECTRODE SYSTEM.
  - CONDUCTOR AND CONDUIT SIZES ARE BASED ON USING CU, 75°C XHHW CONDUCTORS AND RIGID STEEL CONDUIT.
  - PAY ITEM L-145a.
  - COORDINATE WITH UTILITY FOR CT AND METERING REQUIREMENTS.
  - AIC BASED ON 75KVA TRANSFORMER, 1% Z.
  - REMOVE GROUND TO NEUTRAL BOND WHEN GENERATOR SET IS INSTALLED.



2 STANDBY GENERATOR ENCLOSURE

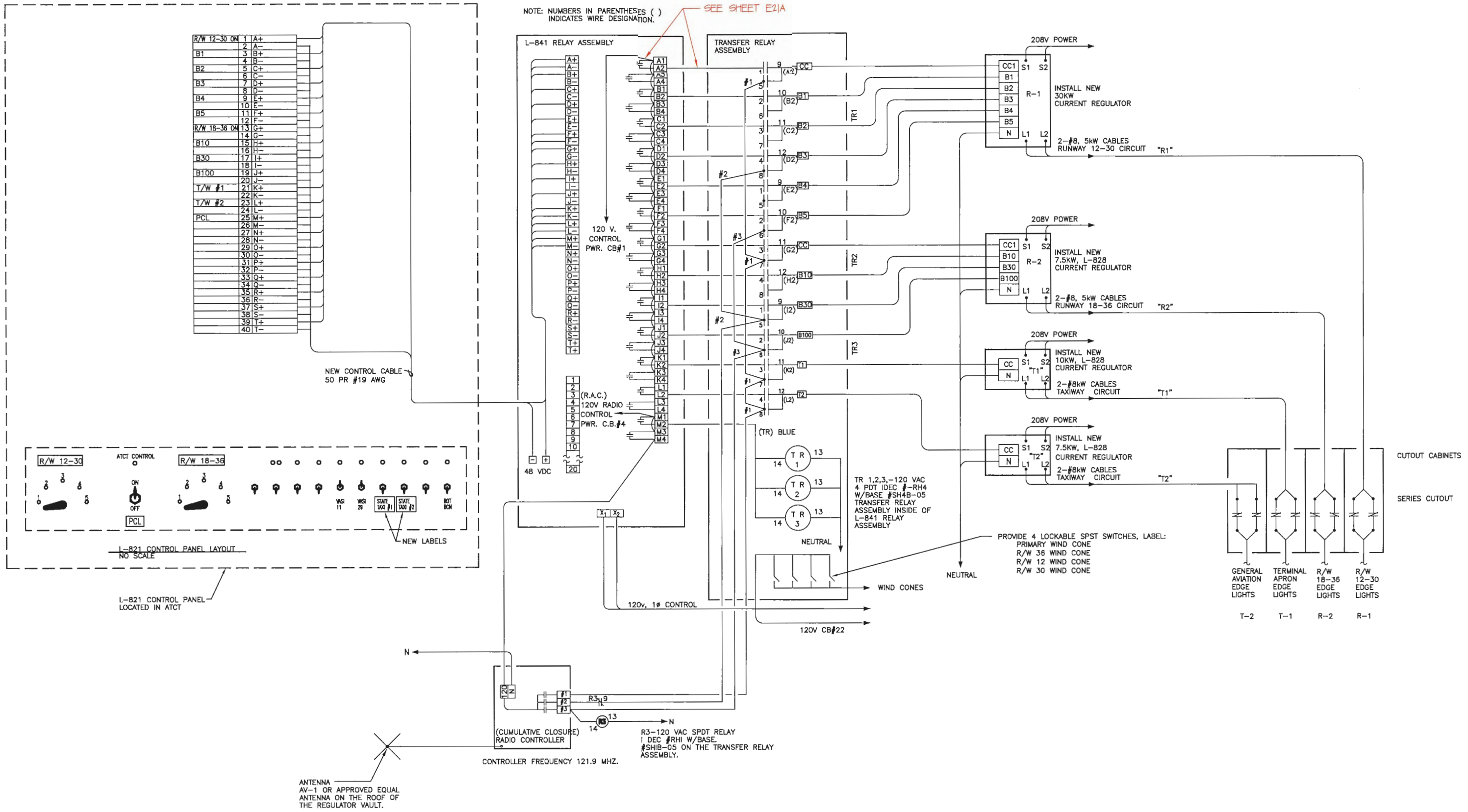
E17 NTS

DATE ORIGINALLY STAMPED 2/18/11

BY	DATE	REVISION
AS-BUILT	6/20/11	



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 File Path and Name: I:\Projects\King Salmon\Airport Lighting\2011\AS-Built\From Brian Hanson\07041\_E18.dwg  
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 Designed By: CUD  
 Drawn By: DMH  
 Checked By: ML



DATE ORIGINALLY STAMPED 2/13/11

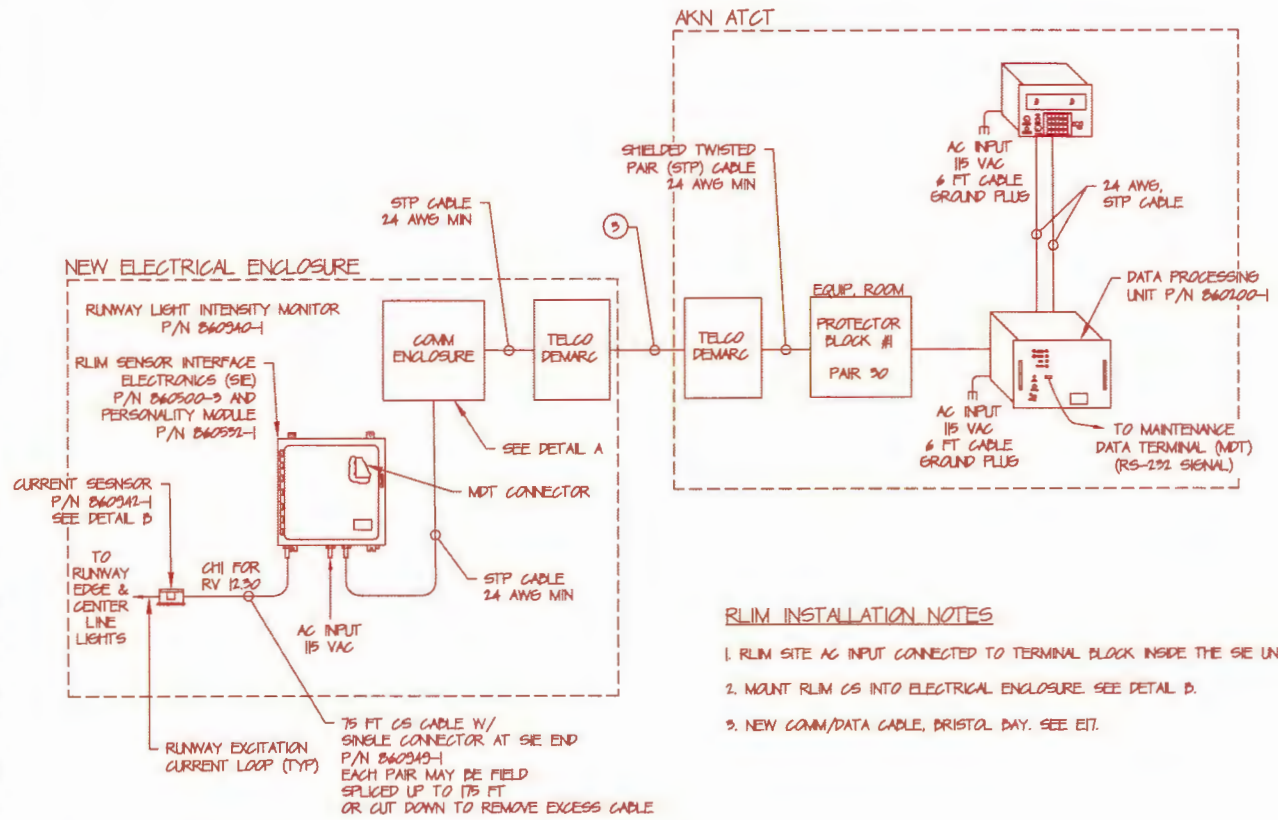
NO.	DATE	REVISION
1	6/2014	AS-BUILT

STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION  
 AND PUBLIC FACILITIES  
 CENTRAL REGION

KING SALMON AIRPORT  
 KING SALMON, ALASKA  
 AIRPORT LIGHTING  
 PROJECT No. 52673  
 AIP No. 3-02-0148-12-2011  
 RUNWAY LIGHTING  
 CONTROL WIRING DIAGRAM

DATE: 2/22/2011  
 SHEET: E18 OF 54  
 AS-BUILT SHEET: 53 OF 57

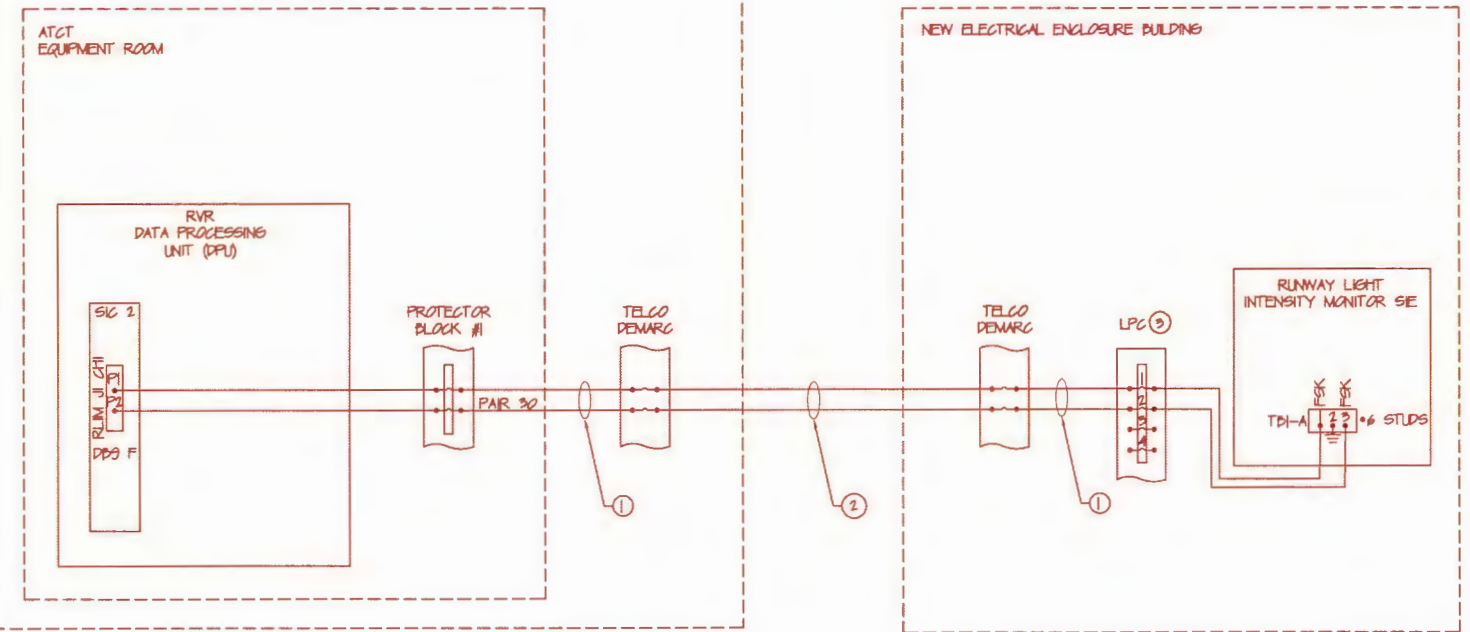
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 File Path and Name:



**RLIM INSTALLATION NOTES**

1. RLIM SITE AC INPUT CONNECTED TO TERMINAL BLOCK INSIDE THE SIE UNIT.
2. MOUNT RLIM CS INTO ELECTRICAL ENCLOSURE SEE DETAIL B.
3. NEW COMM/DATA CABLE, BRISTOL DAY. SEE E17.

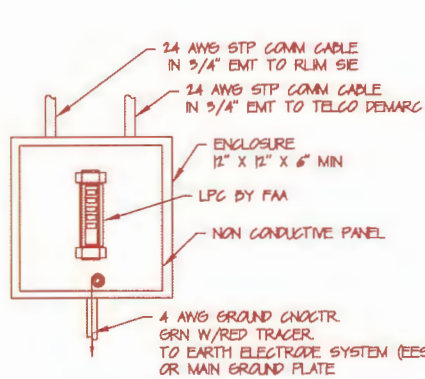
KING SALMON, AK  
AIR TRAFFIC CONTROL TOWER (ATCT)



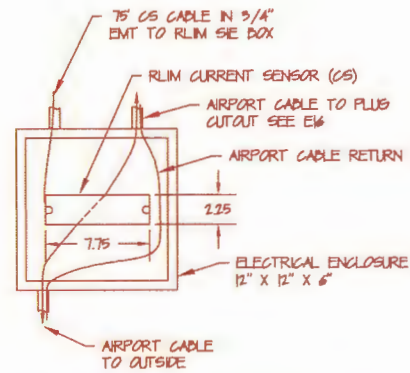
**RLIM INTERFACE WIRING NOTES**

1. WIRING SHALL BE 24 AWG MIN SHIELDED TWISTED PAIR (STP)
2. NEW COMM/DATA CABLE, BRISTOL DAY SEE E17
3. LIGHTING PROTECTION CIRCUITRY (LPC) AS NECESSARY BY FAA

2  
E19A NTS  
**RUNWAY VISUAL RANGE  
RLIM INTERFACE WIRING DIAGRAM**



DETAIL A: TYPICAL COMM ENCLOSURE LAYOUT



DETAIL B: TYPICAL CS ENCLOSURE LAYOUT

1  
E19A NTS  
**RUNWAY LIGHT INTENSITY MONITOR  
(RLIM) CONFIGURATION**



3  
E19A NTS  
**ENCLOSURE PHOTOGRAPH**

BY	DATE	REVISION
YC	6/2014	AS-BUILT
STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES CENTRAL REGION		
KING SALMON AIRPORT KING SALMON, ALASKA AIRPORT LIGHTING PROJECT No. 52673 AIP No. 3-02-0148-12-2011 RLIM DRAWINGS		DATE: 2/22/2011 SHEET: E19A AS-BUILT SHEET: 54 OF 57

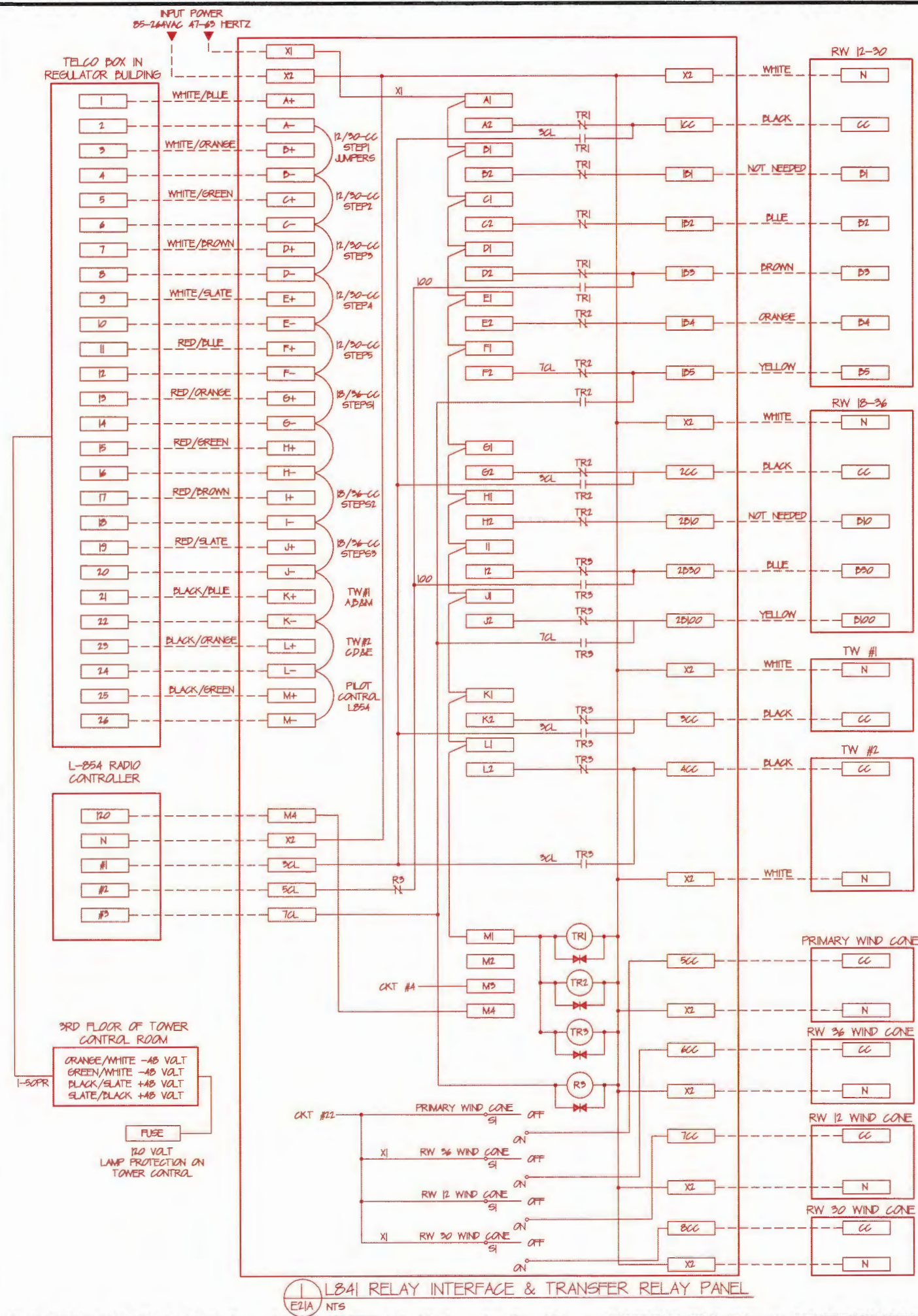




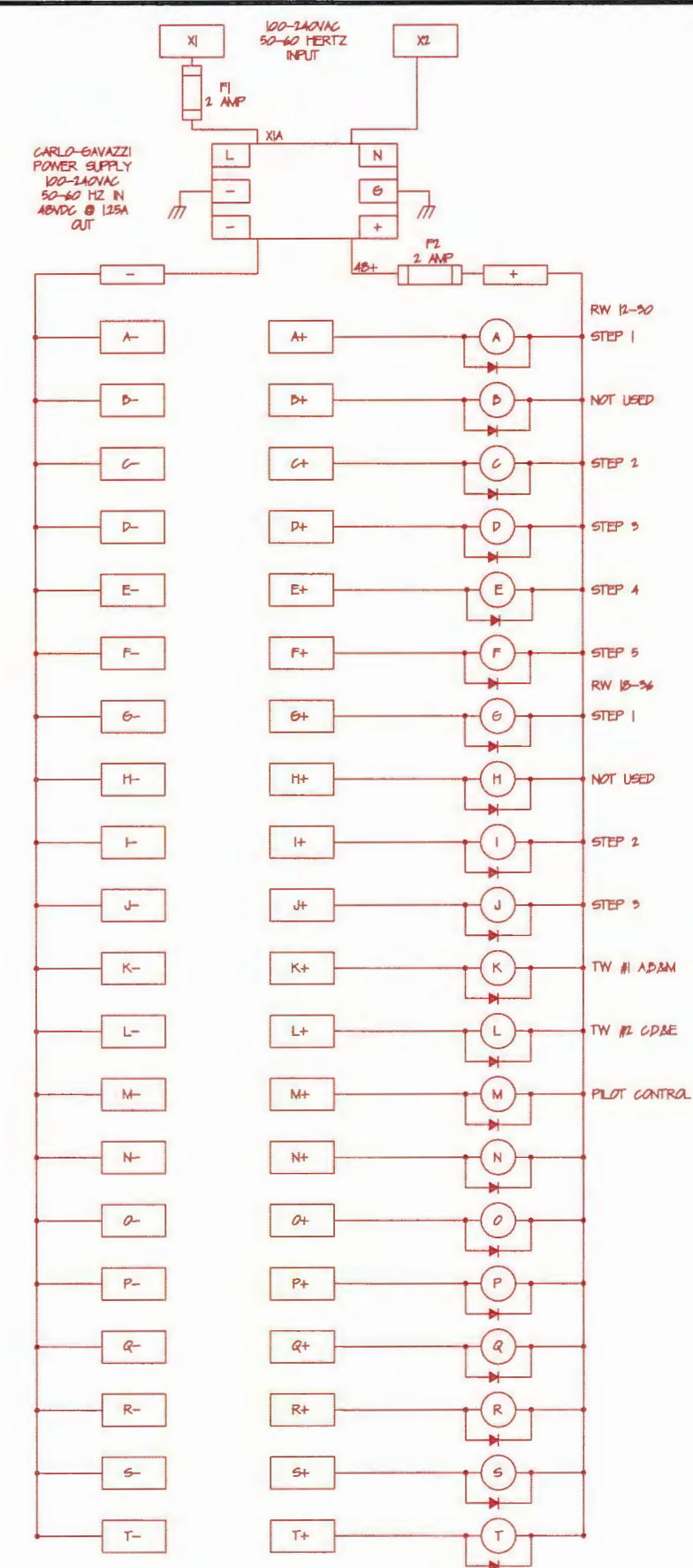


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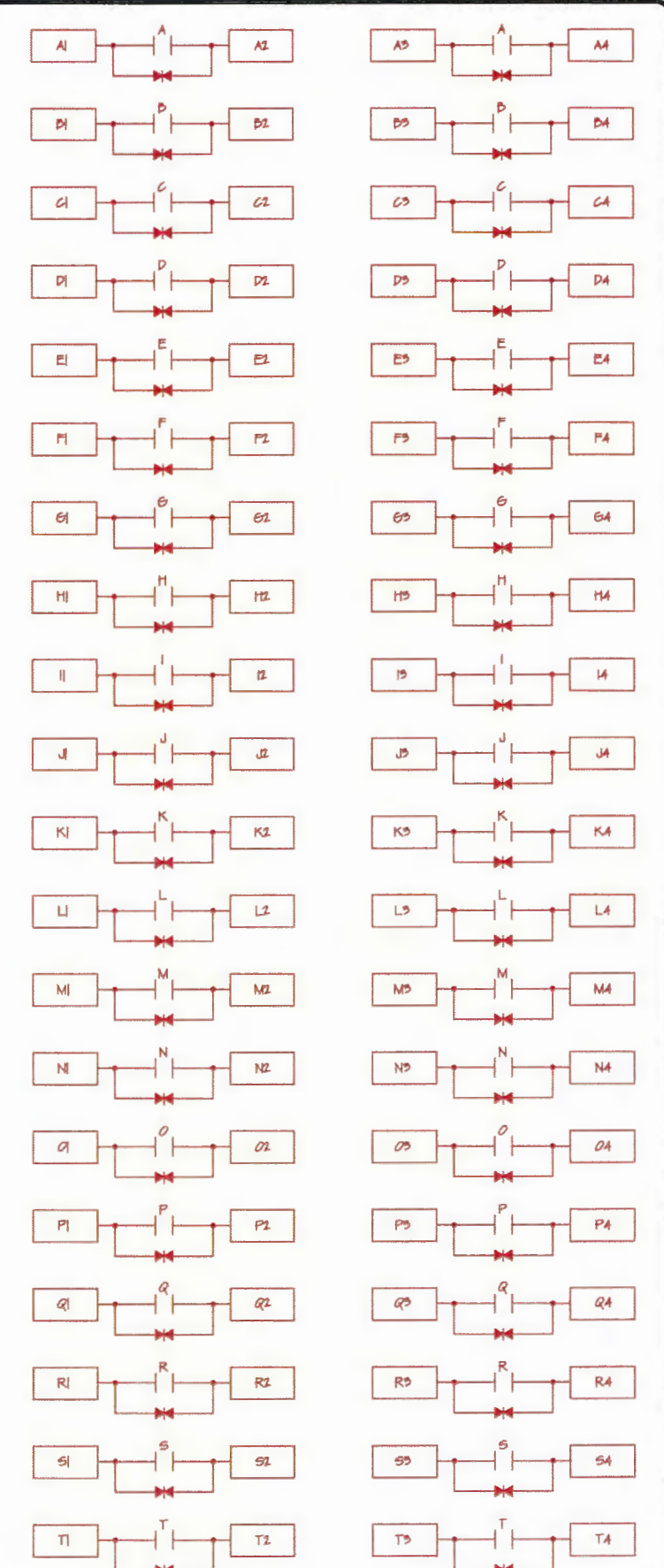
DOW FILE No. 234-26  
 Designed By: CMD  
 Drawn By: DMH  
 Checked By: MJL



1 LBA1 RELAY INTERFACE & TRANSFER RELAY PANEL  
 E21A NTS



2 WIRING DIAGRAM  
 E21A NTS



BY	DATE	REVISION
YZ	6/2014	AS-BUILT

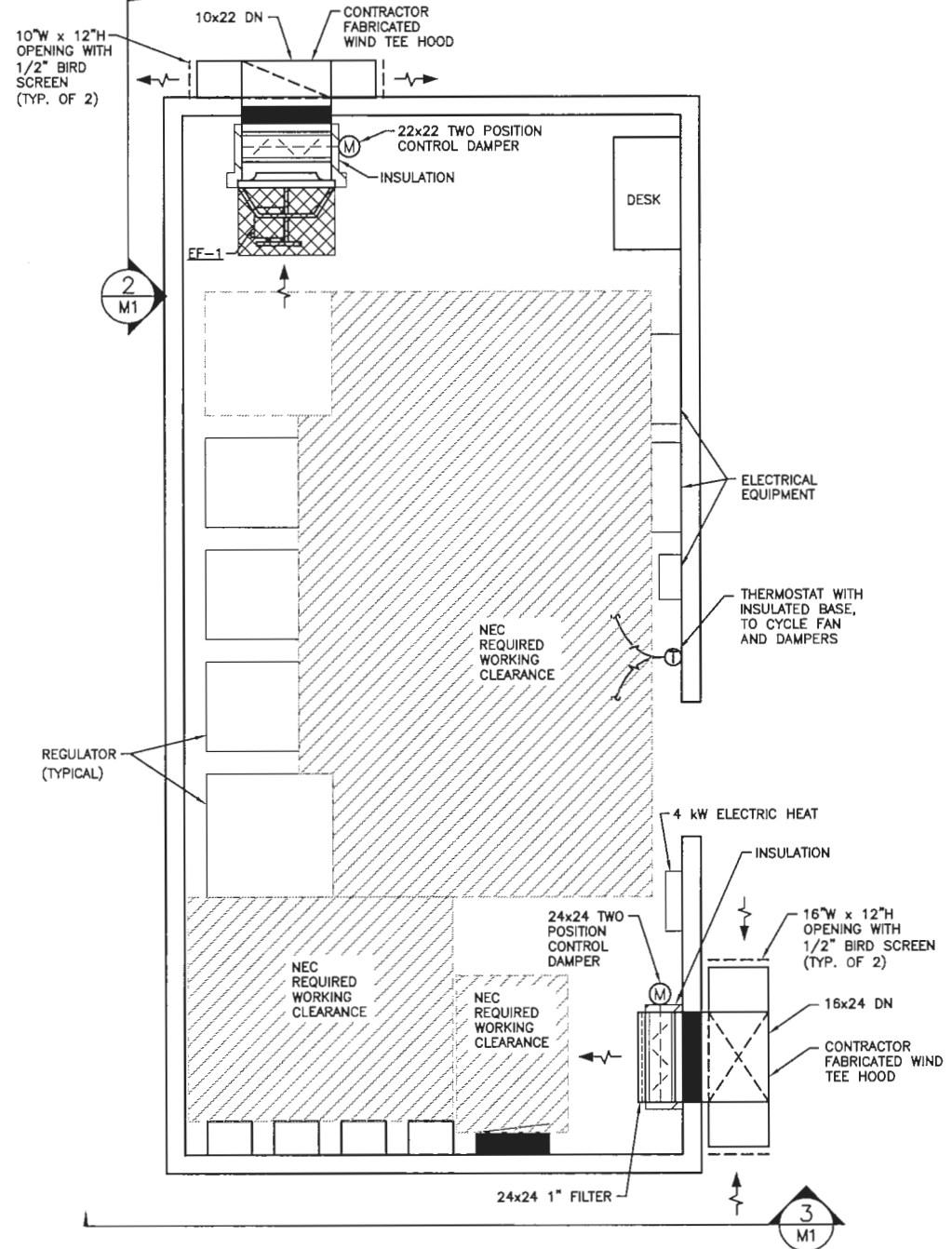
STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION  
 AND PUBLIC FACILITIES  
 CENTRAL REGION

KING SALMON AIRPORT  
 KING SALMON, ALASKA  
 AIRPORT LIGHTING  
 PROJECT No. 52673  
 AIP No. 3-02-0148-12-2011  
 LBA1 LIGHTING INTERFACE PANEL  
 TYPE I, CLASS W, STYLE I, MODE I

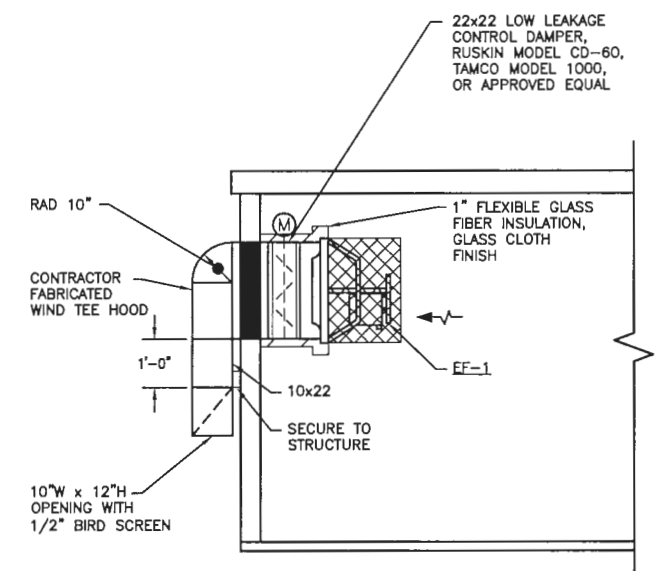
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 AS-BUILT SHEET:  
 56 OF 57



Date Revised: 7/03/2014, 3:52 PM  
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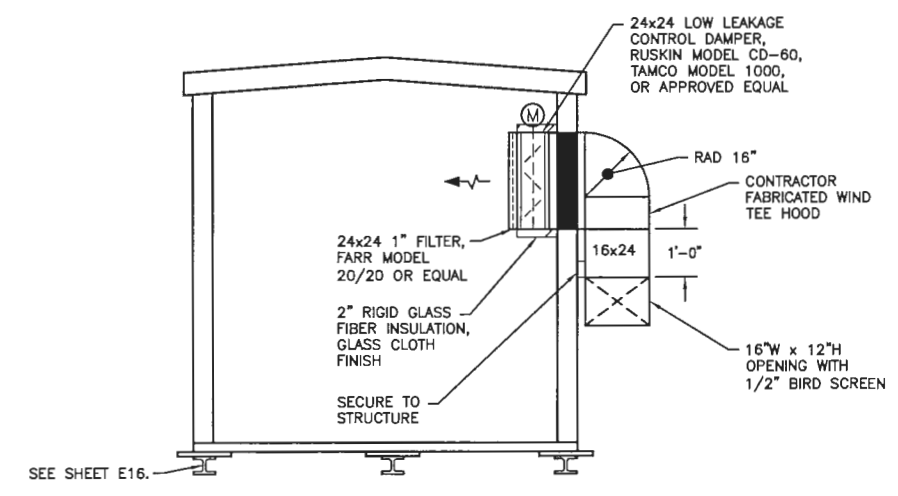


**1 ELECTRICAL ENCLOSURE VENTILATION PLAN**  
 M1 SCALE: 1'-0" = 1/2"



**2 EXHAUST FAN SECTION**  
 M1 SCALE: 1'-0" = 1/2"

FAN SCHEDULE											
SYMBOL	LOCATION	CFM	S.P.		RPM	O.V. FPM	TYPE		USE	MOTOR HP/VOLTS/PH	DESIGN BASIS PRODUCT
			TOT	EXT			SIZE	WHL			
EF-1	EQUIPMENT SHELTER	1000	0.4	---	939	---	---	PROP	E/A	1/3/120/1	GREENHECK MODEL SBE-1H20-3 OR COOK MODEL 20XMW, SIDEWALL BELT DRIVE EXHAUST FAN WITH FAN GUARD, OR APPROVED EQUAL.



**3 AIR INTAKE SECTION**  
 M1 SCALE: 1'-0" = 1/2"

**SEQUENCE OF OPERATION**  
 WHEN FAN IS OFF, OUTSIDE AIR AND EXHAUST DAMPERS ARE CLOSED. ROOM THERMOSTAT INDEXES FAN ON AT 80 DEGREES F (ADJUSTABLE) AND OFF AT 70 DEGREES F (ADJUSTABLE). WHEN FAN IS ON, OUTSIDE AIR AND EXHAUST DAMPERS SHALL OPEN TO PROVIDE EXHAUST AND MAKE-UP AIR. ON LOSS OF POWER, OUTSIDE AIR AND EXHAUST DAMPERS SHALL CLOSE.

DATE ORIGINALLY STAMPED 2/18/11

NO.	DATE	REVISION
1	6/2014	AS-BUILT

STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION  
 AND PUBLIC FACILITIES  
 CENTRAL REGION

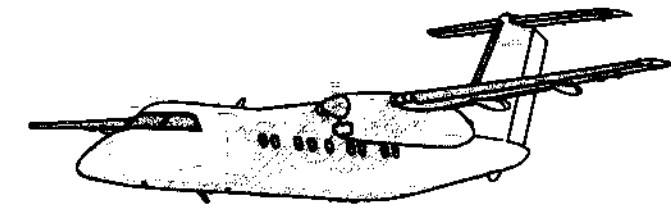
**KING SALMON AIRPORT**  
 KING SALMON, ALASKA  
 AIRPORT LIGHTING  
 PROJECT No. 52673  
 AIP No. 3-02-0148-12-2011  
 ELECTRICAL ENCLOSURE VENTILATION  
 PLAN AND SECTIONS

DATE: 2/22/2011  
 SHEET: M1 OF 54  
 AS-BUILT SHEET: 57 OF 57

*AS-BUILT*  
**CONSTRUCTION PLANS FOR  
 KING SALMON AIRPORT**

**KING SALMON, ALASKA  
 AIRPORT IMPROVEMENTS  
 PROJECT No. 53147  
 AIRPORT IMPROVEMENT PROGRAM  
 A.I.P. No. 3-02-0148-10-2008  
 2008**

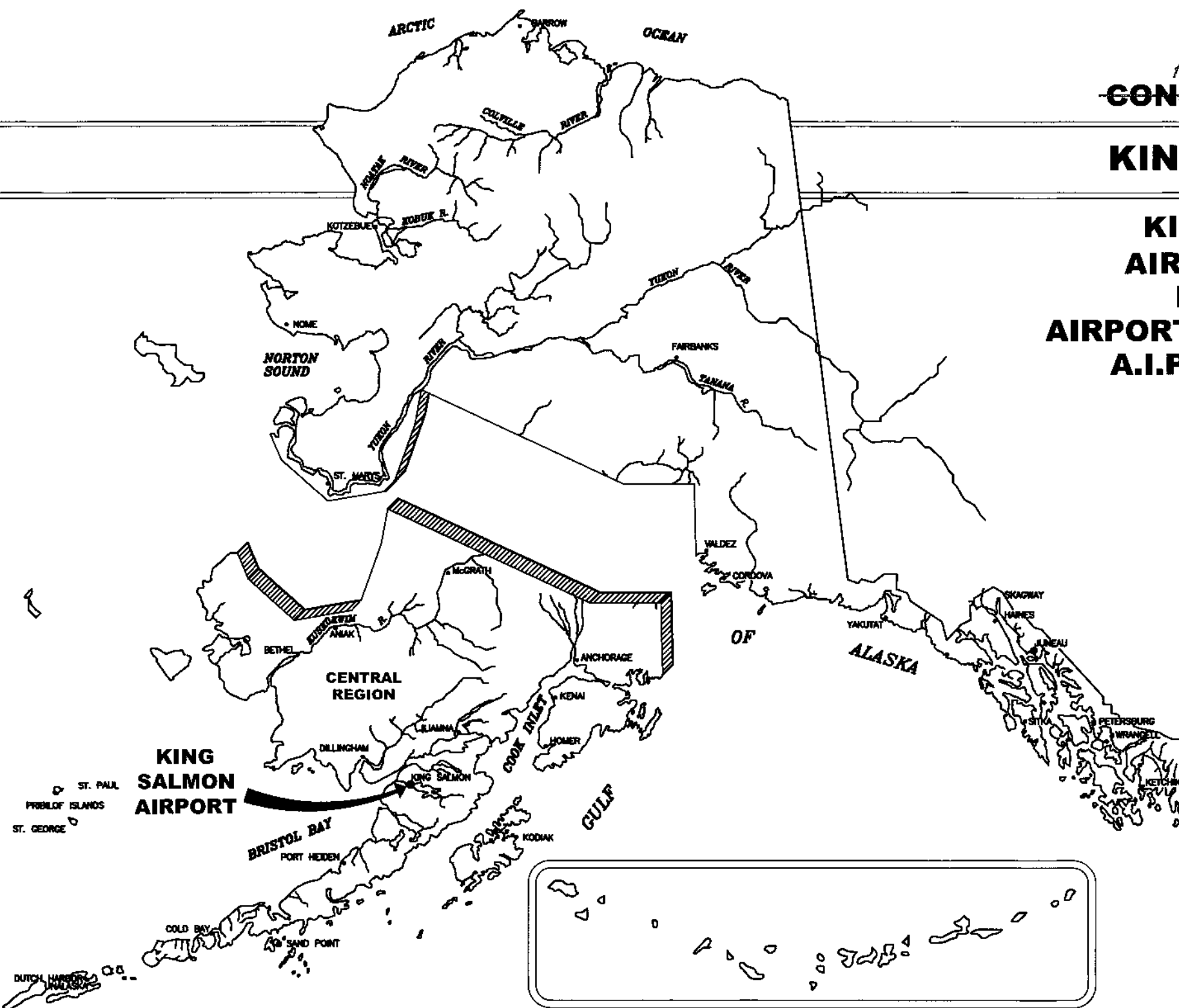
BID OPEN DATE: MAY 19, 2008  
 BID AMOUNT: \$6,103,830.00  
 FINAL AMOUNT: \$5,933,827.23  
 PROJECT ENGINEER: LOUIS C. WEGENER, JR.  
 AWARDED CONTRACTOR: KNIK CONSTRUCTION CO., INC.  
 ADDRESS: 6441 S. AIRPARK PLACE  
 ANCHORAGE, AK 99502



AS-BUILT APPROVED  
 STEPHEN M. RYAN, P.E.

DATE 2/3/10  
 AVIATION CONSTRUCTION GROUP CHIEF

AS-BUILT 10/2009 SHEET 1 OF 43



Date Printed: December 28, 2009  
 Date: 12/28/09  
 Drawn by: [Name]  
 Checked by: [Name]  
 Project No.: 53147-11  
 Project Name: King Salmon Airport Improvements

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

<b>CONCUR</b> STEVEN R. HORN, P.E.	<b>DATE</b> DIRECTOR OF CONSTRUCTION AND OPERATIONS
<b>APPROVED</b> ROBERT A. CAMPBELL, P.E.	<b>DATE</b> REGIONAL PRECONSTRUCTION ENGINEER
<b>APPROVED</b> HARVEY M. DOUTHIT, P.E.	<b>DATE</b> DESIGN SECTION CHIEF
<b>APPROVED</b> MORGAN P. MERRITT, P.E., P.L.S.	<b>DATE</b> PROJECT MANAGER

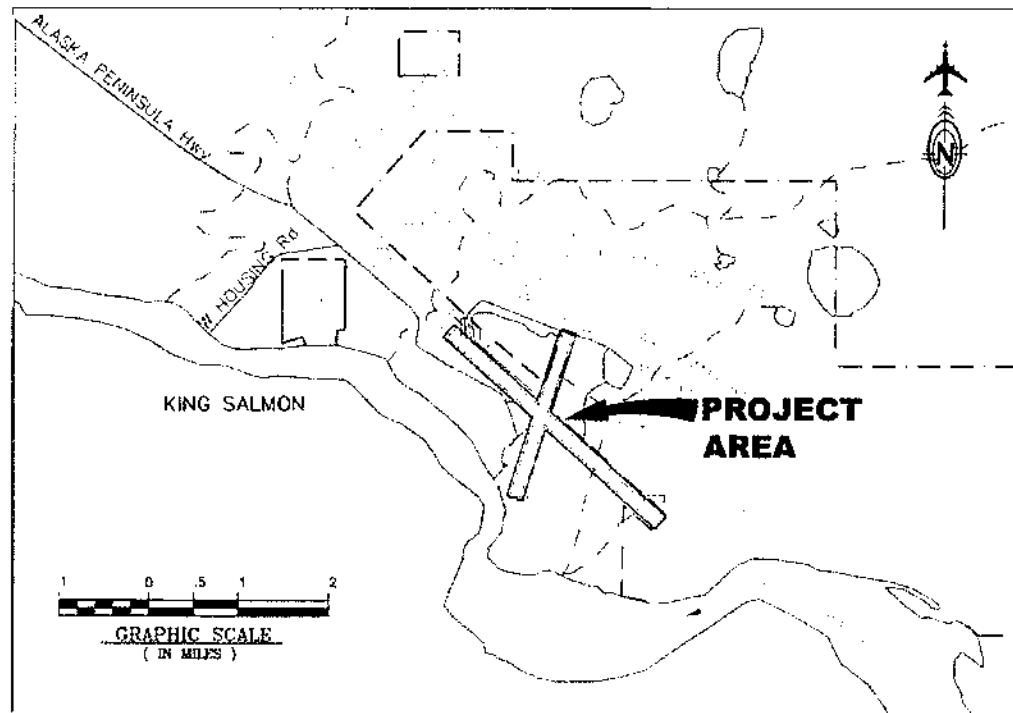
**KING SALMON  
 AIRPORT IMPROVEMENTS  
 PROJECT No. 53147  
 A.I.P. No. 3-02-0148-10-2008**

**SHEET 1 OF 42**



# LEGEND

EXISTING	NEW	DESCRIPTION
---	---	PROPERTY BOUNDARY
---	---	RUNWAY SAFETY AREA
---	---	EDGE OF GRAVEL
---	---	EDGE OF PAVEMENT
---	---	CONCRETE
---	---	FENCE
---	---	STORM DRAIN LINE
---	---	SANITARY SEWER LINE
---	---	CULVERT
---	---	DRAINAGE
---	---	WETLANDS
---	---	UNDERGROUND ELECTRIC LINE
---	---	UNDERGROUND TELEPHONE LINE
---	---	CONTOUR LINE
---	---	SILT FENCE
---	---	BUILDING
---	---	STORM DRAIN MANHOLE
---	---	SANITARY SEWER MANHOLE
---	---	SEWER CLEANOUT
---	---	SEWER SEPTIC CLEANOUT
---	---	MONITORING WELL
---	---	WATER VALVE
---	---	HYDRANT
---	---	FUEL TANK
---	---	GUARD RAIL
---	---	ELECTRICAL PEDESTAL
---	---	ELECTRICAL VAULT/TRANSFORMER
---	---	RADIO TOWER
---	---	ELECTRIC METER
---	---	GUY ANCHOR
---	---	ELECTRIC POWER POLE
---	---	ELECTRIC LIGHT POLE
---	---	ELECTRIC MANHOLE
---	---	ELECTRIC JUNCTION BOX
---	---	RUNWAY THRESHOLD LIGHT (BLUE/RED)
---	---	RUNWAY EDGE LIGHT (WHITE)
---	---	RUNWAY EDGE LIGHT (BLUE)
---	---	RUNWAY APPROACH LIGHT
---	---	TAXIWAY/APRON EDGE LIGHT
---	---	PAPI
---	---	TELEPHONE PEDESTAL
---	---	TELEPHONE MANHOLE
---	---	SIGN/MARKER
---	---	RUNWAY DISTANCE REMAINING SIGN
---	---	BOLLARD
---	---	PROPOSED TEST HOLE (CHARTREUSE PINFLAG)
---	---	EXISTING TEST HOLE
---	---	AIRCRAFT TIE DOWN
---	---	AIRCRAFT TIEDOWN ANCHORS
---	---	SATELLITE/RADAR DISH
---	---	SPRUCE TREE
---	---	ELECTRICAL PLUG IN
---	---	ELECTRIC POWER POLE W/ LIGHT
---	---	SEWER VENT PIPE
---	---	LIGHTED WIND CONE
---	---	SEGMENTED CIRCLE



## VICINITY MAP

T 175 S, R 45 W, SEC 23, 25, 26, & 36,  
SEWARD MERIDIAN, ALASKA  
U.S.G.S. NAKNEK A-4 & A-5, AK

## GENERAL NOTES

- EXISTING GROUND CONTOURS ARE BASED ON DOWL ENGINEERS TOPOGRAPHIC SURVEY PERFORMED IN JULY THROUGH OCTOBER 2005, JANUARY & NOVEMBER 2006, AND JULY & AUGUST 2007.
- SOILS INFORMATION IS DERIVED FROM SOILS INVESTIGATIONS PERFORMED BY DOT&PF AND DOWL ENGINEERS. SEE GEOTECHNICAL REPORT DATED JUNE 2008 TITLED KING SALMON AIRPORT RUNWAY SAFETY AREA IMPROVEMENTS PHASE 1 AND REPORT DATED APRIL 2008 TITLED SUBSURFACE EXPLORATION AND GEOTECHNICAL RECOMMENDATIONS, KING SALMON AIRPORT IMPROVEMENTS.
- LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE BASED ON A COMBINATION OF FIELD SURVEY, AS BUILT RECORDS, AND APPROXIMATIONS FROM AIRPORT MAINTENANCE STAFF. CONTRACTOR SHALL FIELD LOCATE UTILITIES PRIOR TO EXCAVATION.
- VERIFY HORIZONTAL AND VERTICAL LOCATIONS OF ALL UTILITIES ENCOUNTERED DURING CONSTRUCTION. RECORD LOCATIONS AND CHANGES TO UTILITIES IN SURVEY NOTES AND ON AS BUILT DRAWINGS.
- VERIFY INVERTS AND LOCATIONS OF ALL UTILITY CONNECTION POINTS PRIOR TO INSTALLING PIPE. REPORT DISCREPANCIES FROM PLANS IMMEDIATELY TO OWNER'S REPRESENTATIVE.
- ELEVATIONS SHOWN ARE TO PIPE INVERT, FLOW LINE, OR FINISH PAVEMENT SURFACE UNLESS OTHERWISE NOTED.
- RESTORE ALL DISTURBED PROPERTY OUTSIDE OF WORK LIMITS TO ORIGINAL CONDITION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR EROSION AND SEDIMENT CONTROLS AS NECESSARY TO COMPLY WITH FEDERAL, STATE, AND BOROUGH LAWS THAT PROHIBIT UNPERMITTED DISCHARGE OF POLLUTANTS, INCLUDING SEDIMENTS, THAT ARE A RESULT OF EROSION AND OTHER CONSTRUCTION ACTIVITIES. THE CONTRACTOR SHALL CONDUCT ALL WORK SO SEDIMENT IS NOT TRANSPORTED ONTO THE ROADWAY OR ADJACENT PROPERTY. AT A MINIMUM, THE CONTRACTOR SHALL SWEEP UP ANY SEDIMENT TRACKED ONTO PAVED SURFACES IMMEDIATELY TO MINIMIZE THE WASH-OFF OF SEDIMENT INTO THE STORM DRAINAGE SYSTEM OR WATERWAYS AND TO MINIMIZE FOD.

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## REFERENCE DRAWINGS

REIL/PAPI PLOT PLAN	ALD-9A3 SHEET 1/3
PAPI DETAILS	ALD-9A3 SHEET 2/3
PAPI ELECTRICAL WIRING SCHEMATIC	ALD-9A3 SHEET 3/3

## STANDARD DRAWINGS

CULVERT PIPE & ARCH INSTALLATION	D-01.02
PIPE & ARCH TABLES	D-04.21
CULVERT END SECTIONS	D-06.10
CULVERT THAW PIPE	D-10.02
SEDIMENT CONTROL SYSTEM (SILT FENCE)	E-13.00

## ABBREVIATIONS

ABN	ABANDONED	ME	MATCH EXISTING
AC	ASPHALT CONCRETE	MIN	MINIMUM
ACP	ASPHALT CONCRETE PAVEMENT	N	NORTH
AD	ALGEBRAIC DIFFERENCE	NOTAM	NOTICE TO AIRMEN
AIP	AIRPORT IMPROVEMENTS PROJECT	NTS	NOT TO SCALE
BYCE	BEGINNING VERTICAL CURVE ELEVATION	PAPI	PRECISION APPROACH PATH INDICATOR
BYCS	BEGINNING VERTICAL CURVE STATION	PCC	PORLAND CEMENT CONCRETE
6" CABC	CRUSHED AGGREGATE BASE COURSE	PCMP	POLYMER COATED METAL PIPE
C	CENTERLINE	PVI	POINT OF VERTICAL INTERSECTION
CY	CUBIC YARD	RAP	RECYCLED ASPHALT PAVEMENT
DIA	DIAMETER	RT	RIGHT
DOT&PF	STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES	R/W	RUNWAY
E	EAST	RSA	RUNWAY SAFETY AREA
ELEC	ELECTRIC	S	SOUTH
ELEV	ELEVATION	SD/FD	STORM DRAIN FIELD DRAIN
EMT	ELECTRICAL METALLIC TUBING	SDMH	STORM DRAIN MANHOLE
EVCE	END VERTICAL CURVE ELEVATION	SRE	SNOW REMOVAL EQUIPMENT
EVCS	END VERTICAL CURVE STATION	STA	STATION
FAA	FEDERAL AVIATION ADMINISTRATION	SY	SQUARE YARD
FOD	FOREIGN OBJECT DEBRIS	TSA	TAXIWAY SAFETY AREA
FT	FOOT	T/W	TAXIWAY
INV	INVERT	TYP	TYPICAL
LF	LINEAR FOOT	UG	UNDERGROUND
LT	LEFT	VASI	VISUAL APPROACH SLOPE INDICATOR
MAX	MAXIMUM	VC	VERTICAL CURVE
		W	WEST

AS-BUILT 10/2009 SHEET 2 OF 43

Date Plotted: 12/23/09  
 Prof. Revis and Layout: [Signature]  
 File: [Path]  
 Date: December 26, 2009  
 Project: King Salmon Airport Improvements  
 Drawing: 2008-10-31  
 Checked By: [Signature]  
 Drawn By: [Signature]

PLANS DEVELOPED BY MBA ENGINEERS



STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION  
AND PUBLIC FACILITIES  
CENTRAL REGION

KING SALMON AIRPORT  
KING SALMON, ALASKA  
AIRPORT IMPROVEMENTS  
PROJECT NO. 53147  
AIP No. 3-02-0148-10-2008  
VICINITY MAP, ABBREVIATIONS, LEGEND, NOTES, & INDEX

SHEET  
2  
OF  
42

BY	DATE	REVISIONS	BY	DATE	REVISIONS

**FINAL ESTIMATE OF QUANTITIES  
BASIC BID**

ITEM NO.	PAY ITEM	PAY UNIT	QUANTITY
G-100a	Mobilization and Demobilization	LUMP SUM	ALL REQUIRED
G-115a	Worker Meals and Lodging, or Per Diem	LUMP SUM	ALL REQUIRED
G-130a	Field Office	LUMP SUM	ALL REQUIRED
G-130b	Field Laboratory	LUMP SUM	ALL REQUIRED
G-130g	Nuclear Testing Equipment Storage Shed	EACH	1
G-130j	Engineering Communications	CONTINGENT SUM	ALL REQUIRED
G-131a	Engineering Transportation (Truck)	EACH	3
G-135a	Construction Surveying by the Contractor	LUMP SUM	ALL REQUIRED
G-135b	Extra Three Person Survey Party	HOUR	-72-
G-150a	Equipment Rental (Dozer, Minimum 70 HP)	HOUR	-48-
G-700a	Airport Flagger	CONTINGENT SUM	ALL REQUIRED
G-710a	Highway Traffic Maintenance	LUMP SUM	ALL REQUIRED
G-710b	Highway Flagger	CONTINGENT SUM	ALL REQUIRED
G-710c	Highway Traffic Price Adjustment	CONTINGENT SUM	ALL REQUIRED
G-710d	Highway Traffic Control	CONTINGENT SUM	ALL REQUIRED
L-100a	Airport Lighting	LUMP SUM	ALL REQUIRED
L-100i	Relocate Airport Sign, Type L-85B	EACH	8
L-100n	Airport Sign, Type L-85B	EACH	-2-
L-100r	Temporary Runway Lighting System	LUMP SUM	ALL REQUIRED
L-100u	Adjust Runway and Taxiway Light	EACH	-8-
L-100ah	Remove Runway and Taxiway Lights	LUMP SUM	ALL REQUIRED
L-108b	Underground Cable #8 AWG, 5kV FAA Type "B" or Type "C" (as specified on plans), L-824	LUMP SUM	ALL REQUIRED
L-108d	#6 Bare Copper Ground Conductor	LUMP SUM	ALL REQUIRED
L-108i	Underground cable #14 AWG, 2 Conductor, copper, 600V, Type "SOOW-A/SOOW"	LUMP SUM	ALL REQUIRED
L-110b	2-inch Rigid Steel Conduit	LUMP SUM	ALL REQUIRED
L-110h	2-inch PE Conduit	LUMP SUM	ALL REQUIRED
L-132c	Relocate Approach Lighting Aids	LUMP SUM	ALL REQUIRED
P-152a	Unclassified Excavation	CUBIC YARD	11,300
P-154a	Subbase Course	CUBIC YARD	8,200
P-157a	Erosion and Pollution Control Administration	LUMP SUM	ALL REQUIRED
P-157b	Temporary Erosion and Pollution Control	CONTINGENT SUM	ALL REQUIRED
P-157e	Erosion and Pollution Control Price Adjustment	CONTINGENT SUM	ALL REQUIRED
P-161a	Recycled Asphalt Pavement	SQUARE YARD	58,375
P-209a	Crushed Aggregate Base Course	CUBIC YARD	2,340
P-401a	Hot Mix Asphalt Type 2, Class A	TON	10,100
P-401b	Hot Mix Asphalt Price Adjustment	CONTINGENT SUM	ALL REQUIRED
P-401c	Asphalt Cement, PG 52-28	TON	500
P-603a	Tack Coat, STE-1 DELETED BY C.O. #1	TON	-3-
P-605a	Joint Sealing Filler	LINEAR FOOT	-151-
P-620c	Runway and Taxiway Painting	LUMP SUM	ALL REQUIRED
P-630a	Pavement Grooving	SQUARE YARD	63,000
P-670a	Hazardous Marker Barrier, Plastic	EACH	20

**EARTHWORK SUMMARY**

WORK AREA	UNCLASSIFIED EXCAVATION (CY)	EMBANKMENT AVAILABLE (CY)	EMBANKMENT REQUIRED (CY)	21" SUBBASE COURSE (CY)	ACP EXCAVATION (CY)	RAP PLACEMENT (CY)	6" CABC (CY)
RUNWAY 29 THRESHOLD	11,300	9,605	0	8,200	556	0	2,350
R/W 18-36 PAVING	0	0	0	0	3,864	4,150	0
R/W 18 OVERRUN RECONSTRUCTION	5,150	4,378	0	4,000	543	0	1,140
GA TAXIWAY CONSTRUCTION	700	595	1,434	750	404	210	210
GA APRON	0	0	0	0	327	330	0
<b>TOTAL</b>	<b>17,150</b>	<b>14,578</b>	<b>1,434</b>	<b>12,950</b>	<b>5,694</b>	<b>4,690</b>	<b>3,700</b>

**FINAL ESTIMATE OF QUANTITIES  
ADDITIVE ALTERNATE #1**

ITEM NO.	PAY ITEM	PAY UNIT	QUANTITY
G-100a.1	Mobilization and Demobilization	LUMP SUM	ALL REQUIRED
G-115a.1	Worker Meals and Lodging, or Per Diem	LUMP SUM	ALL REQUIRED
P-152a.1	Unclassified Excavation	CUBIC YARD	5,100
P-154a.1	Subbase Course	CUBIC YARD	4,000
P-161a.1	Recycled Asphalt Pavement	SQUARE YARD	6,626
P-209a.1	Crushed Aggregate Base Course	CUBIC YARD	1,140
P-401a.1	Hot Mix Asphalt Type 2, Class A	TON	1,100
P-401b.1	Hot Mix Asphalt Price Adjustment	CONTINGENT SUM	ALL REQUIRED
P-401c.1	Asphalt Cement, PG 52-28	TON	-70-
P-620c.1	Runway and Taxiway Painting	LUMP SUM	ALL REQUIRED

**FINAL ESTIMATE OF QUANTITIES  
ADDITIVE ALTERNATE #2**

ITEM NO.	PAY ITEM	PAY UNIT	QUANTITY
D-701a.2	PCMP Pipe, 36 inch	LINEAR FOOT	193
D-760a.2	1.5 inch Diameter Thaw Pipe	LINEAR FOOT	193
G-100a.2	Mobilization and Demobilization	LUMP SUM	ALL REQUIRED
G-115a.2	Worker Meals and Lodging, or Per Diem	LUMP SUM	ALL REQUIRED
L-100a.2	Airport Lighting	LUMP SUM	ALL REQUIRED
L-100n.2	Airport Sign, Type L-85B	EACH	-2-
L-100ah.2	Remove Runway and Taxiway Lights	LUMP SUM	ALL REQUIRED
L-108b.2	Underground Cable #8 AWG, 5kV FAA Type "B" or Type "C" (as specified on plans), L-824	LUMP SUM	ALL REQUIRED
L-108d.2	#6 Bare Copper Ground Conductor	LUMP SUM	ALL REQUIRED
L-108i.2	Underground cable #14 AWG, 2 Conductor, copper, 600V, Type "SOOW-A/SOOW"	LUMP SUM	ALL REQUIRED
L-110b.2	2-inch Rigid Steel Conduit	LUMP SUM	ALL REQUIRED
L-110h.2	2-inch PE Conduit	LUMP SUM	ALL REQUIRED
P-152a.2	Unclassified Excavation	CUBIC YARD	700
P-154a.2	Subbase Course	CUBIC YARD	750
P-161a.2	Recycled Asphalt Pavement	SQUARE YARD	8,775
P-165a.2	Removal of Structures	LUMP SUM	ALL REQUIRED
P-209a.2	Crushed Aggregate Base Course	CUBIC YARD	220
P-401a.2	Hot Mix Asphalt Type 2, Class A	TON	1,700
P-401b.2	Hot Mix Asphalt Price Adjustment	CONTINGENT SUM	ALL REQUIRED
P-401c.2	Asphalt Cement, PG 52-28	TON	100
P-620c.2	Runway and Taxiway Painting	LUMP SUM	ALL REQUIRED
P-670a.2	Hazardous Marker Barrier, Plastic	EACH	-30-
P-680a.2	Silt Fence	LINEAR FOOT	400
T-901i.2	Seeding	SQUARE YARD	510
T-905a.2	Topsoiling	SQUARE YARD	510
T-908a.2	Mulching	SQUARE YARD	510

L-106a.2 PAPI LIGHT AND R/W DISTANCE MARKERS LUMP SUM ALL REQ'D  
P-161c RAP R/W 36 AND 30 BLAST AREA LUMP SUM ALL REQ'D  
P-670f R/W AND T/W PAINTING MODS. LUMP SUM ALL REQ'D

**FINAL ESTIMATED QUANTITIES FOR SELECT  
CIVIL LUMP SUM OR SUBSIDIARY ITEMS**

ITEM NO.	LUMP SUM OR SUBSIDIARY ITEM	QUANTITY
D-701a.2	CULVERT MARKER POSTS	2 EA
D-701a.2	FLARED END SECTIONS	2 EA
D-701a.2	CLASS B BEDDING MATERIAL	22 CY
P-620c	NEW RUNWAY AND TAXIWAY PAINTING (WHITE)	2350 GAL
P-620c	NEW RUNWAY AND TAXIWAY PAINTING (YELLOW)	130 GAL
P-620c.1	NEW RUNWAY AND TAXIWAY PAINTING (YELLOW)	35 GAL
P-620c.2	NEW RUNWAY AND TAXIWAY PAINTING (YELLOW)	40 GAL
P-620c	REFLECTIVE MEDIA	9 TONS
P-620c.1	REFLECTIVE MEDIA	1 TONS
P-620c.1	REFLECTIVE MEDIA	1 TONS
P-620c	PAINT REMOVAL	159,100 SF
P-620c.1	PAINT REMOVAL	148 SF

\* SEE ELECTRICAL PLANS FOR LUMP SUM ELECTRICAL ITEMS

**ITEM P-165a REMOVAL AND DISPOSAL OF EXISTING STRUCTURES**

ITEMS	REMOVE/ABANDON	STATION	OFFSET
AIRCRAFT TIEDOWN	REMOVE	403+80	11.5' LT
AIRCRAFT TIEDOWN	1033;1033; REMOVE	403+80	56.5' LT
AIRCRAFT TIEDOWN	1033;1033; REMOVE	403+80	101.5' LT
AIRCRAFT TIEDOWN	1033;1033; REMOVE	404+61	35' LT
AIRCRAFT TIEDOWN	1033;1033; REMOVE	404+61	77.5' LT
AIRCRAFT TIEDOWN	1033;1033; REMOVE	404+95	56.5' LT
AIRCRAFT TIEDOWN	1033;1033; REMOVE	405+76	35' LT
AIRCRAFT TIEDOWN	1033;1033; REMOVE	405+76	77.5' LT
AIRCRAFT TIEDOWN	1033;1033; REMOVE	406+10	11.5' LT
AIRCRAFT TIEDOWN	1033;1033; REMOVE	406+10	56.5' LT

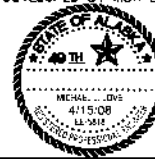
\* SEE ELECTRICAL PLANS FOR LUMP SUM ELECTRICAL ITEMS

**ESTIMATING FACTORS**

ITEM NO.	PAY ITEM	ESTIMATING FACTOR
P-401a	HOT MIX ASPHALT TYPE 2, CLASS A	150 lb/r3
P-401c	ASPHALT CEMENT, PG 52-28	5.5% BY WEIGHT OF P-401a
P-603a	TACK COAT, STE-1	0.10 gal/SY, 8.45lb/gal
P-152a	UNCLASSIFIED EXCAVATION	85% USABLE

Date Plotted: December 28, 2009  
 Plotted By: [Name]  
 File: [Name]  
 Project: [Name]  
 Sheet: [Name]  
 Scale: [Name]

PLANS DEVELOPED BY MBA ENGINEERS



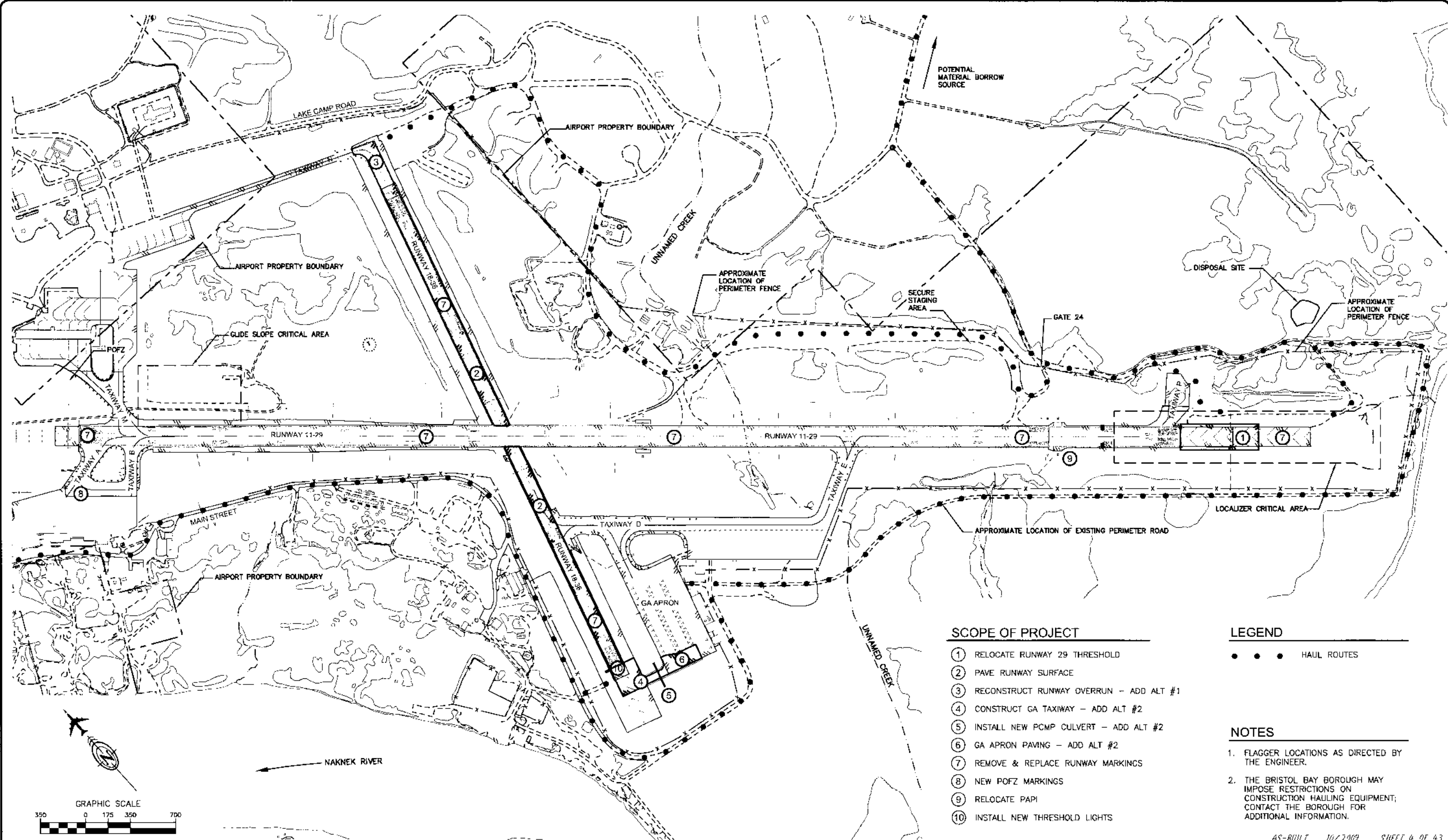
**STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION  
AND PUBLIC FACILITIES  
CENTRAL REGION**

**KING SALMON AIRPORT**  
 KING SALMON, ALASKA  
 AIRPORT IMPROVEMENTS  
 PROJECT NO. 53147  
 AIP No. 3-02-0148-10-2008  
 ESTIMATED QUANTITIES, ESTIMATING FACTORS, & SUMMARY TABLES

BY	DATE	REVISIONS	BY	DATE	REVISIONS



December 26, 2009  
 Designed By: AMS  
 Checked By: SDD/FBHL  
 Drawn By:  
 DOW FILE No. 233-11  
 2008-1-18 10:36:31  
 Script File: P:\P\53147 AS-BUILT\AUGUST\AUGUST.dwg  
 Plot Ratio and Layout:  
 Plot File:



**SCOPE OF PROJECT**

- ① RELOCATE RUNWAY 29 THRESHOLD
- ② PAVE RUNWAY SURFACE
- ③ RECONSTRUCT RUNWAY OVERRUN - ADD ALT #1
- ④ CONSTRUCT GA TAXIWAY - ADD ALT #2
- ⑤ INSTALL NEW PCMP CULVERT - ADD ALT #2
- ⑥ GA APRON PAVING - ADD ALT #2
- ⑦ REMOVE & REPLACE RUNWAY MARKINGS
- ⑧ NEW POZ MARKINGS
- ⑨ RELOCATE PAPI
- ⑩ INSTALL NEW THRESHOLD LIGHTS

**LEGEND**

• • • HAUL ROUTES

**NOTES**

- 1. FLAGGER LOCATIONS AS DIRECTED BY THE ENGINEER.
- 2. THE BRISTOL BAY BOROUGH MAY IMPOSE RESTRICTIONS ON CONSTRUCTION HAULING EQUIPMENT; CONTACT THE BOROUGH FOR ADDITIONAL INFORMATION.

AS-BUILT 10/2009 SHEET 4 OF 43

BY	DATE	REVISIONS	BY	DATE	REVISIONS

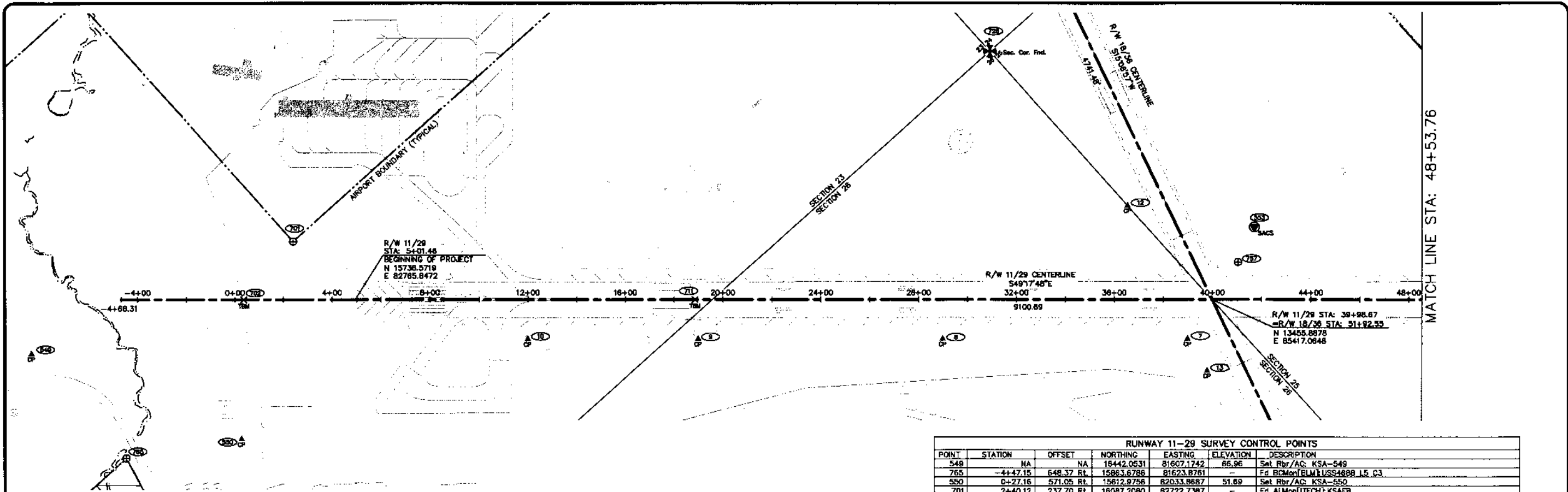


STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION  
 AND PUBLIC FACILITIES  
 CENTRAL REGION

**KING SALMON AIRPORT**  
 KING SALMON, ALASKA  
 AIRPORT IMPROVEMENTS  
 PROJECT NO. 53147  
 AIP No. 3-02-0148-10-2008  
 PROJECT LAYOUT PLAN

SHEET  
 4  
 OF  
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December 28, 2008  
 Design By: [Redacted]  
 Checked By: [Redacted]  
 Drawn By: [Redacted]  
 Date: [Redacted]  
 File: [Redacted]



**HORIZONTAL CONTROL:**

**Coordinate System:**

This project is located within the "King-Nak" Coordinate System, a local surface grid coordinate system expressed in U.S. Survey feet units developed by the State of Alaska Department of Transportation and Public Facilities.

**Base of Coordinates:**

The Base of Coordinates is NGS Primary Airport Control Station "AKN-A", located near the southeast corner of Runway 18/36. Said station has "King-Nak" Coordinate System coordinates of 10997.3450 N, 84963.3560 E. U.S. Survey Feet.

**Base of Bearings:**

The Base of Bearings is a local plane bearing between NGS Primary Airport Control Station "AKN-A" and NGS Secondary Airport Control Station "AKN-C", NGS Secondary Airport Control Station "AKN-C" bears N28°12'27.9\"/>

**Translation Parameters:**

To convert the local coordinates to NAD83 (92) State Plane coordinates expressed in U.S. Survey Feet, translate using +1697882.76131 N *u*, +1811590.28829 E *v*, and scale using 0.9999837981.

**VERTICAL CONTROL:**

Elevations are based on Primary Airport Control Station (PACS) Monument "AKN-A" with a published elevation of 55.2'. The NGS Data Sheet lists an NAVD 88 orthometric height for this point that was determined by GPS observations and a high-resolution geoid model. GPS derived orthometric heights for airport stations designated as PACS or SACS are published to 1 decimal place (U.S. Survey Feet). This maintains relative accuracy between the PACS and SACS; it does not indicate accuracy relative to other marks which are part of the NAVD 88 network.

Elevations of Secondary Airport Control Stations (SACS), and other Horizontal & Vertical Survey Control points were established by differential leveling loops using a Leica DNA10 digital level. Elevations of Secondary Horizontal Survey Control points should be verified from the Vertical Survey Control before using due to the potential of settlement or frost heave of these types of monuments over time.

**NOTES:**

- Horizontal control points 551, and 552 were used as the basis of coordinates and held in a simultaneous Least Squares Network Adjustment with Static GPS Control Points 1, 2, 548 - 550, 553, 701 - 710, 714-737, and 739-771, in Leica Geo Office Version 2.0. All other survey control point coordinates listed were established by DOWL Engineers using conventional traverse techniques utilizing a Leica TCSP 1205+ Total Station Instrument. These conventional control points were adjusted with a least squares traverse adjustment in Land Development Desktop.
- Control point 552, AKN-C (SACS), was disturbed and reset by others after this survey. Its new position has not been verified, therefore it is not shown or listed hereon.
- All background information shown herein was obtained from the King Salmon Airport "Aerial Mapping", as performed by Aeromop utilizing photos acquired on August 23, 1987 and October 2, 1997. This background is for orientation purposes only.
- This survey was completed by DOWL Engineers in parts of July, August, September, and October of 2005, January and November of 2006, and July and August of 2007. All dimensions and coordinates shown are in U.S. Survey Feet unless noted otherwise.
- Whether listed or not, all monuments or property markers corners, or accessories which will be disturbed or buried, shall be referenced and re-established in their original position (A.S. 19.10.260) and recorded (A.S. 34.65.040).

RUNWAY 11-29 SURVEY CONTROL POINTS						
POINT	STATION	OFFSET	NORTHING	EASTING	ELEVATION	DESCRIPTION
548	NA	NA	18442.0531	81607.1742	86.96	Set Rbr/AC: KSA-548
765	-4+47.15	648.37 Rt.	15863.8786	81623.8761	-	Fd BOMon[BLM]USS4688 ILS C3
550	0+27.16	571.05 Rt.	15812.9756	82033.8887	51.89	Set Rbr/AC: KSA-550
701	2+40.12	237.70 Rt.	16087.2080	82722.7387	-	Fd ALMon[TECH]KSAFB
10	11+98.87	161.77 Rt.	15158.1227	83189.0463	54.85	Set Rbr/AC: KSA-10
9	18+98.88	161.50 Rt.	14702.8262	83719.9023	53.66	Set Rbr/AC: KSA-9
8	28+98.79	161.08 Rt.	14051.0552	84478.2034	55.10	Set Rbr/AC: KSA-8
726	30+90.97	1016.01 Lt.	14818.0753	85361.5286	-	Fd BOMon[BLM]S23S24/S26S25*117S R45W
12	36+54.76	384.65 Lt.	13971.7528	85407.2054	60.20	Set Rbr/AC: KSA-12
7	38+98.58	160.65 Rt.	13399.3872	85236.4011	57.97	Set Rbr/AC: KSA-7
13	39+78.16	291.97 Rt.	13247.9198	85211.1096	57.19	Set Rbr/AC: KSA-13
757	41+04.44	152.99 Lt.	13502.8922	85587.0161	-	Set ALMon[DOWL]RM N 1/18 S26S25*117S R45W
553	41+70.85	298.66 Lt.	13568.5050	85741.0566	63.02	Fd BOMon[NGS] AKN-B (SACS)

RUNWAY 11-29 VERTICAL CONTROL						
POINT	STATION	OFFSET	NORTHING	EASTING	ELEVATION	DESCRIPTION
702	0+38.50	0.00	18039.7844	82413.3613	56.76	Fd BOMon[US Eng]B-6
711	18+85.94	0.06 Lt.	14833.7335	83815.4533	58.21	Fd BCI COE LKS-10

**MONUMENT LEGEND**

- GOVT SECTION CORNER
- GOVT SURVEY MONUMENT
- NGS CONTROL MONUMENT
- PRIMARY MONUMENT [BRASS/AL CAP]
- CENTERLINE SURVEY MONUMENT
- COE MONUMENT/TEMPORARY BENCH MARK
- PRIMARY CONTROL POINT
- POINT NUMBER



SCALE: 1"=200 U.S. SURVEY FEET AS-BUILT 10/2009 SHEET 5 OF 43

**SURVEYOR CERTIFICATE**

I hereby certify that I am properly Registered and Licensed to practice Land Surveying in the State of Alaska, and that this drawing represents a survey made by me or under my direct supervision, and that the monuments shown hereon actually exist as described, and that all dimensions and other details are correct to the extent shown hereon.

Stanley E. Ponness LS-6714 Date

PLANS DEVELOPED BY DOWL ENGINEERS



STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION  
AND PUBLIC FACILITIES  
CENTRAL REGION

KING SALMON AIRPORT  
KING SALMON, ALASKA  
AIRPORT IMPROVEMENTS  
PROJECT NO. 53147  
AIP No. 3-02-0148-10-2008  
SURVEY CONTROL SHEET

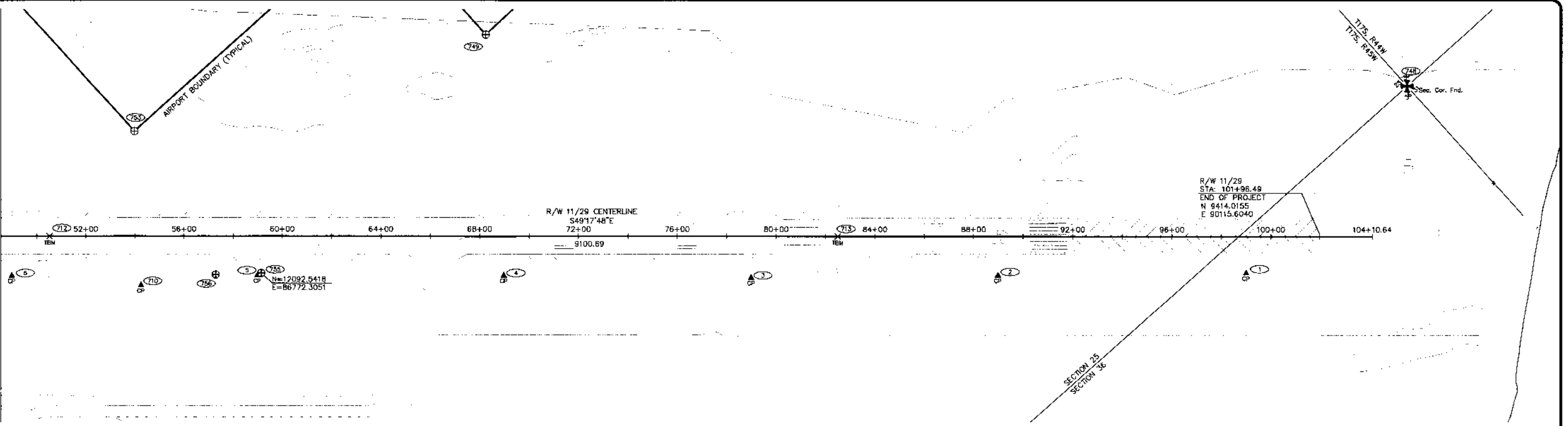
SHEET  
5  
OF  
42

BY	DATE	REVISIONS	BY	DATE	REVISIONS



December 28, 2009  
 DWG FILE No. 203-11  
 DWG FILE No. 2008-1-15  
 PROJECT: King Salmon Airport  
 53147 Air-Built/AS-Built/AS-BUILT  
 Date Plotted:  
 Plot Ratio and Layout:  
 1/4" = 100'

MATCH LINE STA: 48+53.76



**HORIZONTAL CONTROL:**

**Coordinate System:**  
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**Basis of Coordinates:**  
 The Basis of Coordinates is NGS Primary Airport Control Station "AKN-A", located near the southeast corner of Runway 18/36. Said station has "King-Nak" Coordinate System coordinates of 10997.3450 N, 84963.3550 E. U.S. Survey Feet.

**Basis of Bearings:**  
 The Basis of Bearings is a local plane bearing between NGS Primary Airport Control Station "AKN-A" and NGS Secondary Airport Control Station "AKN-C". NGS Secondary Airport Control Station "AKN-C" bears N28°12'27.9"E a distance of 5315.9136 feet from NGS Primary Airport Control Station "AKN-A". NGS Secondary Airport Control Station "AKN-C" has "King-Nak" Coordinate System coordinates of 15661.9384 N, 82450.6826 E. U.S. Survey Feet.

**Translation Parameters:**  
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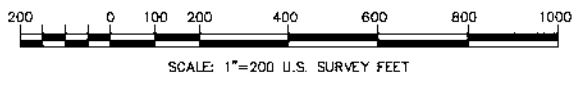
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- Whether listed or not, all monuments or property markers corners, or accessories which will be disturbed or buried, shall be referenced and re-established in their original position (A.S. 19.10.260) and recorded (A.S. 34.65.040).



RUNWAY 11-29 SURVEY CONTROL POINTS						
POINT	STATION	OFFSET	NORTHING	EASTING	ELEVATION	DESCRIPTION
6	48+88.63	160.22 Rt.	12747.5196	85994.8301	63.20	Set Rbr/AC: KSA-6
753	53+87.78	424.29 Lt.	12865.1222	86754.4155	-	Fd ALMon[TECH]:KSAFB
710	54+24.82	199.96 Rt.	12374.2429	86367.8156	63.94	Fd Rod/BC[ADOT/PP]:ESKIMO
756	57+28.53	155.72 Rt.	12209.7216	86626.9159	-	Fd ALMon[BLM]:RM CW 1/16 S25°T17S R45W
5	58+98.99	159.78 Rt.	12095.4792	86753.4865	61.99	Set Rbr/AC: KSA-5
755	59+15.17	149.73 Rt.	12092.5418	86772.3051	-	Fd ALMon[BLM]:RM CW 1/16 S25°T17S R45W
749	68+23.91	815.41 Lt.	12231.5846	88090.6259	-	Fd ALMon[TECH]:KSAFB
4	68+98.50	159.33 Rt.	11443.9960	87511.5042	61.87	Set Rbr/AC: KSA-4
3	78+98.87	168.25 Rt.	10784.8478	88264.0564	63.95	Set Rbr/AC: KSA-3
2	88+99.49	158.35 Rt.	10139.7999	89029.0829	66.67	Set Rbr/AC: AZ-KSA-2
1	99+00.27	148.45 Rt.	9494.6573	89794.2315	68.26	Set Rbr/AC: AZ-KSA-1
748	NA	NA	9644.5254	90781.7524	-	Fd BCMon[BLM]:S25°S30/S36[S31]T17S R45W

RUNWAY 11-29 VERTICAL CONTROL						
POINT	STATION	OFFSET	NORTHING	EASTING	ELEVATION	DESCRIPTION
712	50+52.10	0.03 Lt.	12768.9257	86215.6787	65.71	Fd BCI COE:KS-11
713	82+48.70	0.00	10684.2586	88638.9896	67.89	Fd BCI COE:KS-12

**SURVEYOR CERTIFICATE**

I hereby certify that I am properly Registered and Licensed to practice Land Surveying in the State of Alaska, and that this drawing represents a survey, made by me or under my direct supervision, and that the monuments shown herein actually exist as described, and that all dimensions and other details are correct to the extent shown herein.

Stanley E. Ponsness LS-6714 Date

MONUMENT LEGEND	
	GOV'T SECTION CORNER
	GOV'T SURVEY MONUMENT
	NGS CONTROL MONUMENT
	PRIMARY MONUMENT [BRASS/AL CAP]
	CENTERLINE SURVEY MONUMENT
	COE MONUMENT/TEMPORARY BENCH MARK
	PRIMARY CONTROL POINT
	POINT NUMBER

AS-BUILT 10/2009 SHEET 6 OF 43

BY	DATE	REVISIONS	BY	DATE	REVISIONS

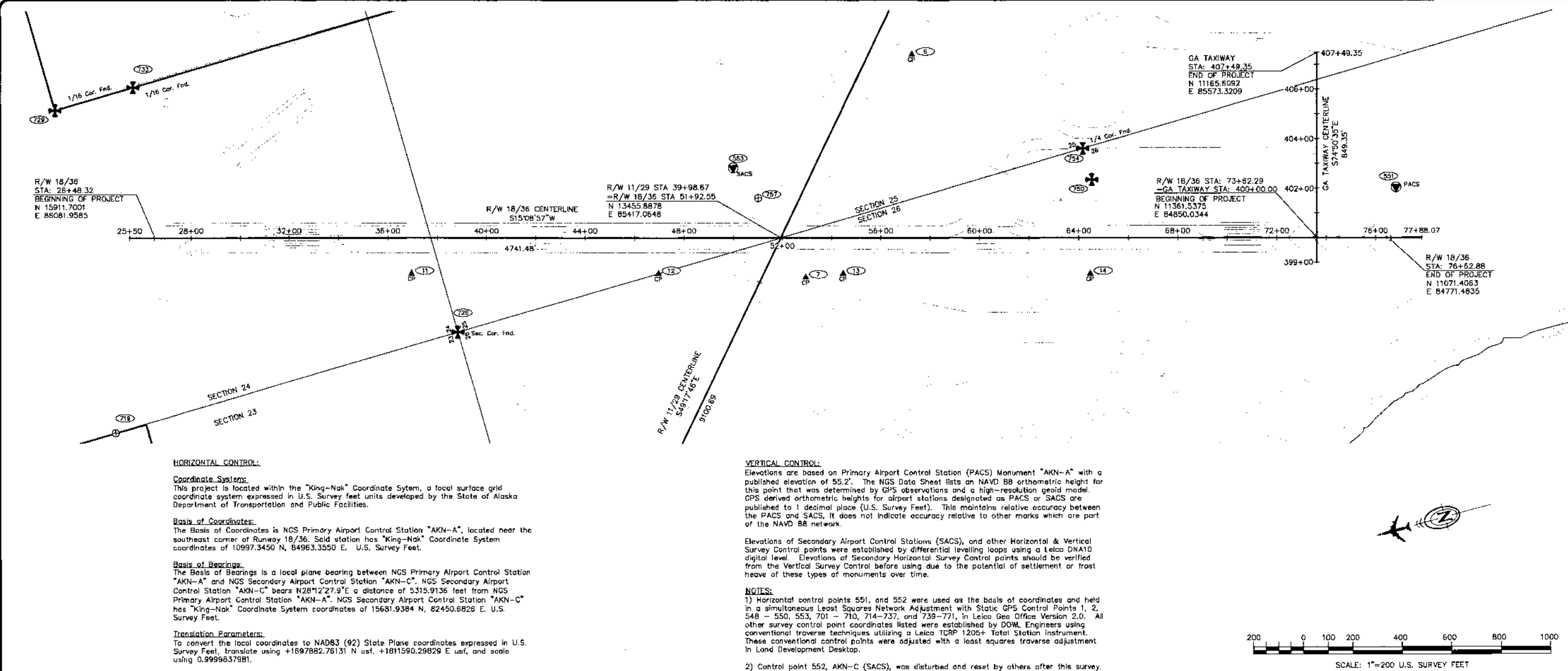
PLANS DEVELOPED BY DOWL ENGINEERS

STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION  
 AND PUBLIC FACILITIES  
 CENTRAL REGION

KING SALMON AIRPORT  
 KING SALMON, ALASKA  
 AIRPORT IMPROVEMENTS  
 PROJECT NO. 53147  
 AIP No. 3-02-0148-10-2008  
 SURVEY CONTROL SHEET

SHEET  
 6  
 OF  
 42

Date Plotted: December 26, 2008  
 Plot Ratio and Layout: AS-BUILT  
 File: H:\Projects\King Salmon\King Salmon 53147 - AS-BUILT\Aerial\Aerial-Stage Layout 2008-12-15.dwg  
 DWG FILE No: 203-11  
 2008-12-15  
 Designed By: SEP  
 Checked By: CLR  
 Drawn By:



**HORIZONTAL CONTROL:**

**Coordinate System:**  
 This project is located within the "King-Nak" Coordinate System, a local surface grid coordinate system expressed in U.S. Survey feet units developed by the State of Alaska Department of Transportation and Public Facilities.

**Basis of Coordinates:**  
 The Basis of Coordinates is NGS Primary Airport Control Station "AKN-A", located near the southeast corner of Runway 18/36. Said station has "King-Nak" Coordinate System coordinates of 10997.3450 N, 84963.3550 E. U.S. Survey Feet.

**Basis of Bearings:**  
 The Basis of Bearings is a local plane bearing between NGS Primary Airport Control Station "AKN-A" and NGS Secondary Airport Control Station "AKN-C". NGS Secondary Airport Control Station "AKN-C" bears N28°12'27.9"E a distance of 5315.9136 feet from NGS Primary Airport Control Station "AKN-A". NGS Secondary Airport Control Station "AKN-C" has "King-Nak" Coordinate System coordinates of 15631.9384 N, 82450.6826 E. U.S. Survey Feet.

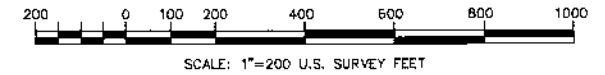
**Translation Parameters:**  
 To convert the local coordinates to NAD83 (92) State Plane coordinates expressed in U.S. Survey Feet, translate using +1697882.76131 N usf, +1811590.29829 E usf, and scale using 0.9999837981.

**VERTICAL CONTROL:**

Elevations are based on Primary Airport Control Station (PACS) Monument "AKN-A" with a published elevation of 55.2'. The NGS Data Sheet lists an NAVD 88 orthometric height for this point that was determined by GPS observations and a high-resolution geoid model. GPS derived orthometric heights for airport stations designated as PACS or SACS are published to 1 decimal place (U.S. Survey Feet). This maintains relative accuracy between the PACS and SACS. It does not indicate accuracy relative to other marks which are part of the NAVD 88 network.

Elevations of Secondary Airport Control Stations (SACS), and other Horizontal & Vertical Survey Control points were established by differential levelling loops using a Leica DNA10 digital level. Elevations of Secondary Horizontal Survey Control points should be verified from the Vertical Survey Control before using due to the potential of settlement or frost heave of these types of monuments over time.

**NOTES:**  
 1) Horizontal control points 551, and 552 were used as the basis of coordinates and held in a simultaneous Least Squares Network Adjustment with Static GPS Control Points 1, 2, 548 - 550, 553, 701 - 710, 714-737, and 738-771, in Leica Geo Office Version 2.0. All other survey control point coordinates listed were established by DOWL Engineers using conventional traverse techniques utilizing a Leica TCRP 1205+ Total Station instrument. These conventional control points were adjusted with a least squares traverse adjustment in Land Development Desktop.  
 2) Control point 552, AKN-C (SACS), was disturbed and reset by others after this survey. Its new position has not been verified, therefore it is not shown or listed hereon.  
 3) All background information shown herein was obtained from the King Salmon Airport "Aerial Mapping", as performed by Aeromap utilizing photos acquired on August 23, 1987 and October 2, 1997. This background is for orientation purposes only.  
 4) This survey was completed by DOWL Engineers in parts of July, August, September, and October of 2005, January and November of 2006, and July and August of 2007. All dimensions and coordinates shown are in U.S. Survey Feet unless noted otherwise.  
 5) Whether listed or not, all monuments or property markers corners, or accessories which will be disturbed or buried, shall be referenced and re-established in their original position (A.S. 19.10.260) and recorded (A.S. 34.65.040).



RUNWAY 18-36 SURVEY CONTROL POINTS						
POINT	STATION	OFFSET	NORTHING	EASTING	ELEVATION	DESCRIPTION
729	22+46.26	515.36 Lt.	16165.1096	86584.4801	-	Fd ALMon[BLM]: SW 1/16 S24°T17S R4
719	24+94.20	788.31 Rt.	16266.4762	85361.3231	-	Fd ALMon[TECH]: KSAFB
733	25+63.22	608.46 Lt.	15834.8279	86691.5070	-	Fd ALMon[BLM]: CNSSW 1/256 S24°T1
11	36+97.06	144.23 Rt.	14937.1014	85668.6677	60.97	Set Rbr/AC: KSA-11
726	38+84.37	390.64 Rt.	14818.0753	85391.5267	-	Fd BOMon[BLM]: S23[S224/S26]S25°T
12	46+97.19	144.33 Rt.	13971.7528	85407.2054	60.20	Set Rbr/AC: KSA-12
553	49+99.17	263.30 Lt.	13568.5050	85741.0566	63.11	Fd BOMon[NGS]: AKN-B (SACS)
757	51+00.15	181.41 Lt.	13502.8922	85597.0161	-	Set ALMon[DOWL]: RM N 1/16 S25°T1
7	52+94.30	159.62 Rt.	13399.3672	85236.4011	57.97	Set Rbr/AC: KSA-7
13	54+47.11	144.45 Rt.	13247.9196	85211.1096	57.19	Set Rbr/AC: KSA-13
6	57+26.19	743.01 Lt.	12747.5196	85994.8301	63.20	Set Rbr/AC: KSA-6
754	64+16.77	381.86 Lt.	12179.6467	85446.4207	-	Fd ALMon[BLM]: 1/4 S26°T17S R45W
14	64+47.09	144.64 Rt.	12282.7473	84949.5970	53.78	Set Rbr/AC: KSA-14
750	64+53.43	235.44 Lt.	12177.2969	85314.8149	54.30	Fd ALMon[BLM]: RM 1/4 S26[S25°T17S R45W
551	78+84.22	204.66 Lt.	10997.3450	84963.3550	55.20	Fd BOMon[NGS]: AKN-A (PACS)

TAXIWAY SURVEY CONTROL POINTS						
POINT	STATION	OFFSET	NORTHING	EASTING	ELEVATION	DESCRIPTION
14	398+55.24	915.20 Lt.	12282.7473	84949.5970	53.78	Set Rbr/AC: KSA-14
551	402+04.60	321.89 Rt.	10997.3450	84963.3550	55.20	Fd BOMon[NGS]: AKN-A (PACS)
750	402+35.32	906.90 Lt.	12177.2969	85314.8149	54.30	Fd ALMon[BLM]: RM 1/4 S26[S25°T17S R45W
754	403+61.73	945.58 Lt.	12179.6467	85446.4207	-	Fd ALMon[BLM]: 1/4 S26°T17S R45W
6	407+42.59	1637.09 Lt.	12747.5196	85994.8301	63.20	Set Rbr/AC: KSA-6

**SURVEYOR CERTIFICATE**

I hereby certify that I am properly Registered and Licensed to practice Land Surveying in the State of Alaska, and that this drawing represents a survey made by me or under my direct supervision, and that the monuments shown hereon actually exist as described, and that all dimensions and other details are correct to the extent shown hereon.

Stanley E. Ponsness LS-6714 Date

**MONUMENT LEGEND**

- GOVT SECTION CORNER
- GOVT SURVEY MONUMENT
- NGS CONTROL MONUMENT
- PRIMARY MONUMENT [BRASS/AL CAP]
- CENTERLINE SURVEY MONUMENT
- COE MONUMENT/TEMPORARY BENCH MARK
- PRIMARY CONTROL POINT
- POINT NUMBER

AS-BUILT 10/2009 SHEET 7 OF 43

PLANS DEVELOPED BY DOWL ENGINEERS



STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION  
 AND PUBLIC FACILITIES  
 CENTRAL REGION

KING SALMON AIRPORT  
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 AIRPORT IMPROVEMENTS  
 PROJECT NO. 53147  
 AIP No. 3-02-0148-10-2008  
 SURVEY CONTROL SHEET

SHEET  
 7  
 OF  
 42

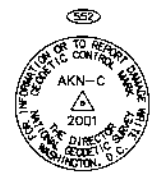
BY	DATE	REVISIONS	BY	DATE	REVISIONS



Date Plotted: December 28, 2009  
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 2009-1-13  
 Drawn By: SEP  
 Checked By: GER



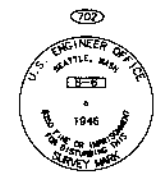
FOUND  
 3-1/4" BRASS CAP  
 ON 2-3/8" STEEL POST  
 1.1' BELOW GRADE



FOUND  
 3-1/4" BRASS CAP  
 ON 2-3/8" STEEL POST  
 0.1' BELOW GRADE



FOUND  
 3-1/4" BRASS CAP  
 ON 2-3/8" STEEL POST  
 0.2' BELOW GRADE



FOUND  
 3 1/2" BRASS CAP  
 ON CONCRETE POST  
 1.1' ABOVE GRADE-FIRM  
 CAP FLUSH WITH TOP



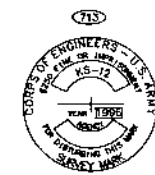
FOUND  
 2-1/2" BRASS DONUT  
 2" BELOW DATUM POINT  
 ON STAINLESS STEEL ROD  
 0.4' ABOVE GRADE  
 INSIDE 4" DIA. PVC PIPE  
 0.7' ABOVE GRADE  
 W/ RUBBER CAP.  
 3 CARSONITE POSTS  
 2' FROM MON.



FOUND  
 3 1/2" BRASS CAP ON  
 CONCRETE PAD/BARRIER  
 0.05' BELOW GRADE



FOUND  
 3 1/2" BRASS CAP ON  
 CONCRETE PAD/BARRIER  
 0.05' BELOW GRADE



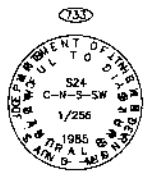
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 0.05' BELOW GRADE



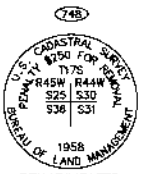
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 3 1/4" BRASS CAP  
 ON 2 1/2" IRON POST  
 0.4' ABOVE GRADE



FOUND  
 3 1/4" ALUM. CAP  
 ON 2 1/2" ALUM. POST  
 0.5' ABOVE GRADE



FOUND  
 3 1/4" ALUM. CAP  
 ON 2 1/2" ALUM. POST  
 0.1' ABOVE GRADE



REHABILITATED  
 3 1/4" BRASS CAP  
 ON 2 1/2" IRON POST  
 0.3' ABOVE GRADE



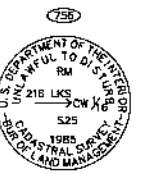
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 ON 3/4" DRIVE ROD  
 0.5' ABOVE GRADE



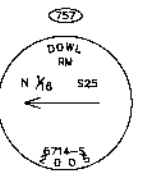
FOUND  
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 ON 2 1/2" ALUM. POST  
 1.5' BELOW GRADE



FOUND  
 3 1/4" ALUM. CAP  
 0.2' BELOW GRADE



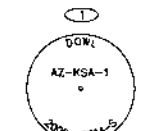
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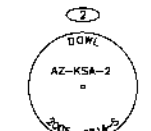
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 0.3' BELOW GRADE



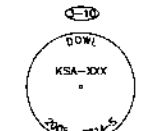
FOUND  
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 ON 2 1/2" ALUM. POST  
 1.2' BELOW GRADE



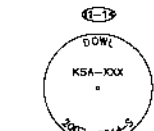
SET  
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 W/ 2" ALUM. CAP  
 0.3' BELOW GRADE



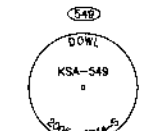
SET  
 5/8" x 30" REBAR  
 W/ 2" ALUM. CAP  
 0.3' BELOW GRADE



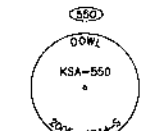
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 W/ 2" ALUM. CAP  
 (TYPICAL TRAVERSE STATION)



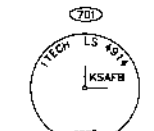
SET  
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 W/ 2" ALUM. CAP  
 (TYPICAL TRAVERSE STATION)



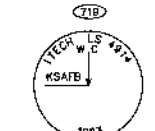
SET  
 5/8" x 30" REBAR  
 W/ 2" ALUM. CAP  
 0.4' BELOW GRADE



SET  
 5/8" x 30" REBAR  
 W/ 2" ALUM. CAP  
 0.2' BELOW GRADE



FOUND  
 2-1/2" DIA. POST MON  
 W/ 2-1/2" ALUM. CAP  
 0.4' ABOVE GRADE



FOUND  
 2-1/2" DIA. POST MON  
 W/ 2-1/2" ALUM. CAP  
 0.4' ABOVE GRADE



FOUND  
 2-1/2" ALUM. CAP MON  
 ON 2 1/2" ALUM. POST  
 0.5' BELOW GRADE



FOUND  
 2-1/2" ALUM. CAP MON  
 ON 2 1/2" ALUM. POST  
 0.8' ABOVE GRADE

**SURVEYOR CERTIFICATE**

I hereby certify that I am properly Registered and Licensed to practice Land Surveying in the State of Alaska, and that this drawing represents a survey made by me or under my direct supervision, and that the monuments shown hereon actually exist as described, and that all dimensions and other details are correct to the extent shown hereon.

Stanley E. Panness I.S.-6714 Date

AS-BUILT 10/2009 SHEET 8 OF 43

BY	DATE	REVISIONS	BY	DATE	REVISIONS

PLANS DEVELOPED BY DOWL ENGINEERS

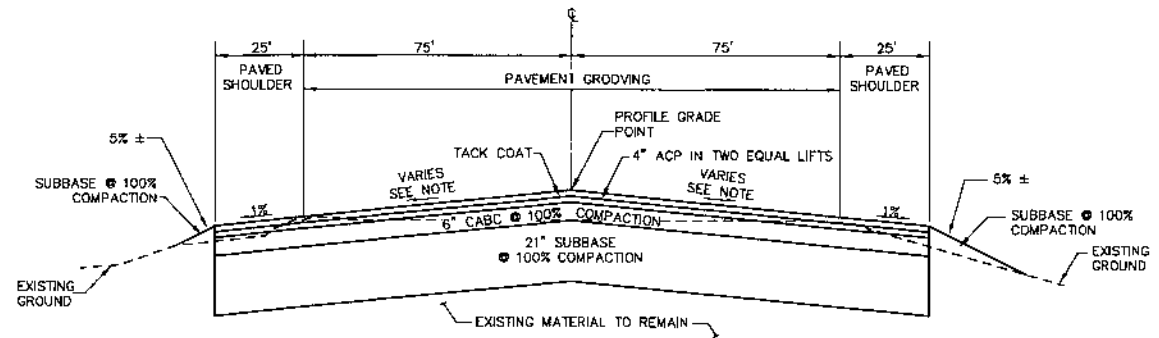


STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION  
 AND PUBLIC FACILITIES  
 CENTRAL REGION

KING SALMON AIRPORT  
 KING SALMON, ALASKA  
 AIRPORT IMPROVEMENTS  
 PROJECT NO. 53147  
 AIP No. 3-02-0148-10-2008  
 SURVEY CONTROL SHEET

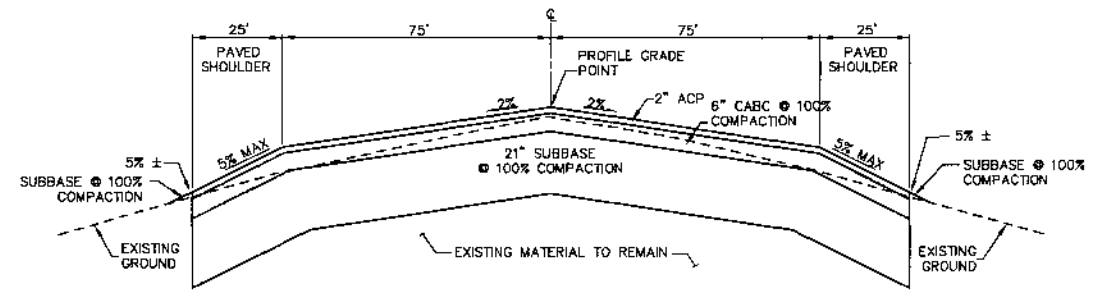
SHEET  
 8  
 OF  
 42

Date Plotted: December 28, 2009  
 Plot Ratio and Layout: 1/8" = 1'-0"  
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 Drawn By:

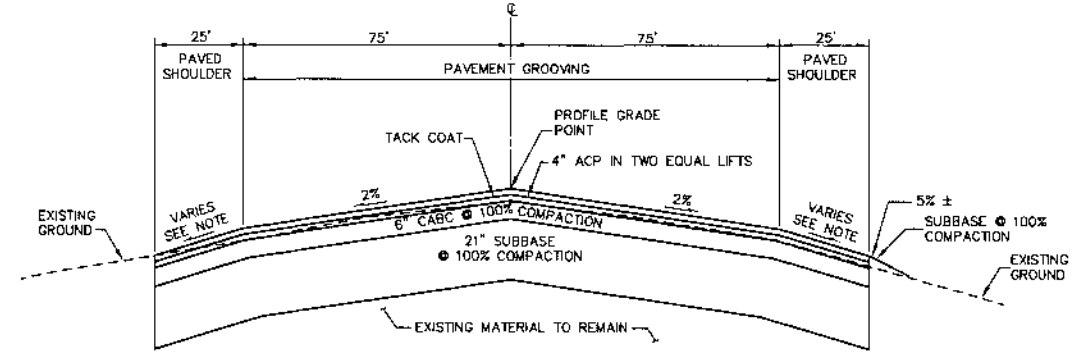


NOTE: SLOPE IS 1% AT STA 91+96.16 AND TRANSITIONS TO 2% AT STA 92+25

**RUNWAY 29 THRESHOLD RELOCATION**  
STA 91+96.16 to STA 92+25

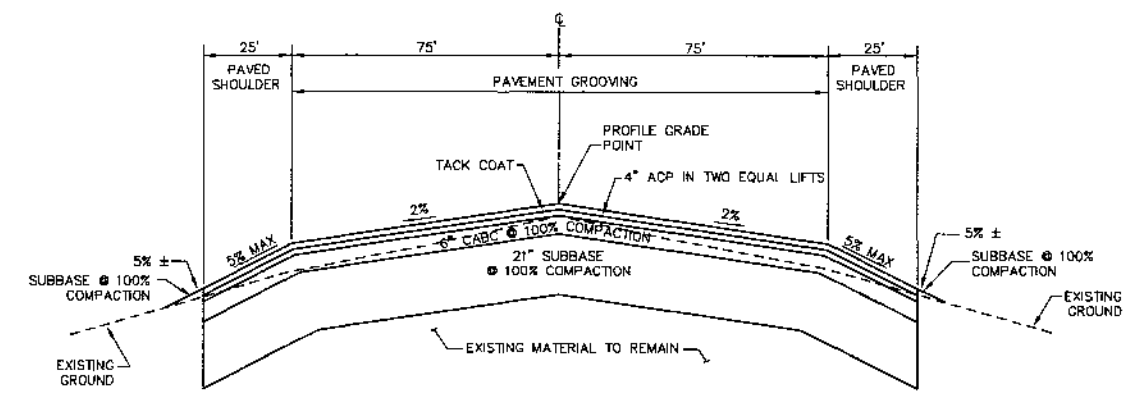


**RUNWAY 29 BLAST PAD**  
STA 95+96.28 to STA 97+96.28



NOTE: SLOPE IS 1% AT STA 92+25 AND TRANSITIONS TO 5% AT STA 93+00

**RUNWAY 29 THRESHOLD RELOCATION**  
STA 92+25 to STA 93+00



**RUNWAY 29 THRESHOLD RELOCATION**  
STA 93+00 to STA 95+96.28

**NOTES**

- EXCAVATION AND PROCESSING OF EXISTING AC PAVEMENT WILL BE PAID FOR UNDER P-161g.
- RAP MAY NOT BE USED FOR RUNWAY 29 THRESHOLD RELOCATION WORK.
- ESTIMATED PAVEMENT THICKNESS VARIES BETWEEN 1.25" AND 6". SEE SUBSURFACE EXPLORATION REPORT PREPARED BY DOWL ENGINEERS DATED APRIL 2006 FOR PAVEMENT CORING DATA.
- EXCESS RAP IS THE PROPERTY OF THE STATE AND SHALL BE HAULED AND STOCKPILED AS DIRECTED BY THE ENGINEER.

AS-BUILT 10/26/09 SHEET 9 OF 43

BY	DATE	REVISIONS	BY	DATE	REVISIONS

PLANS DEVELOPED BY MBA ENGINEERS



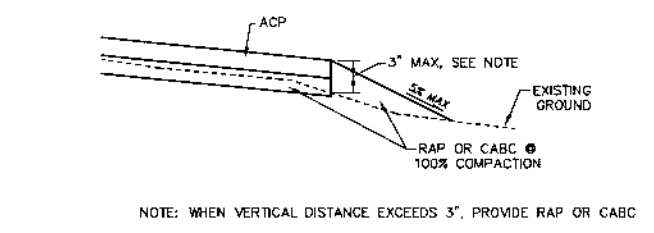
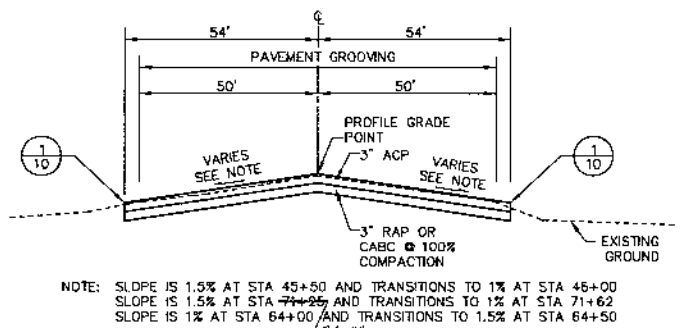
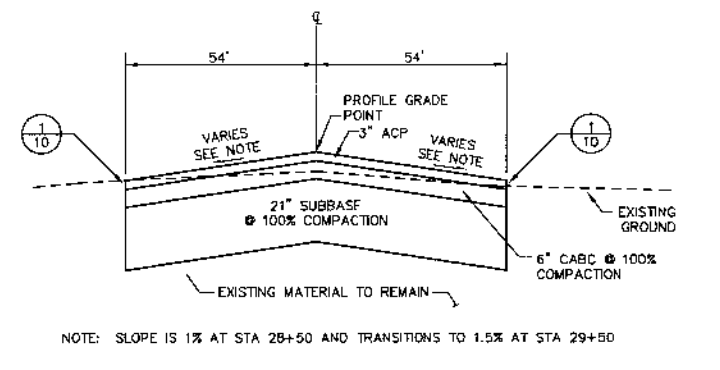
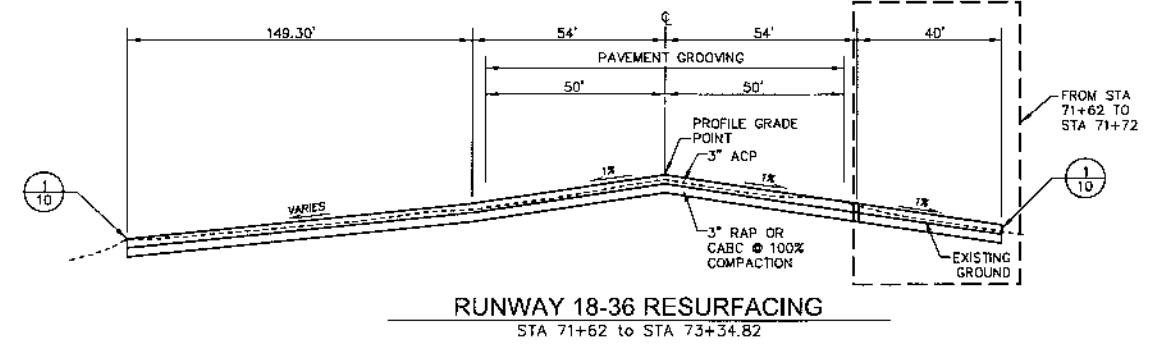
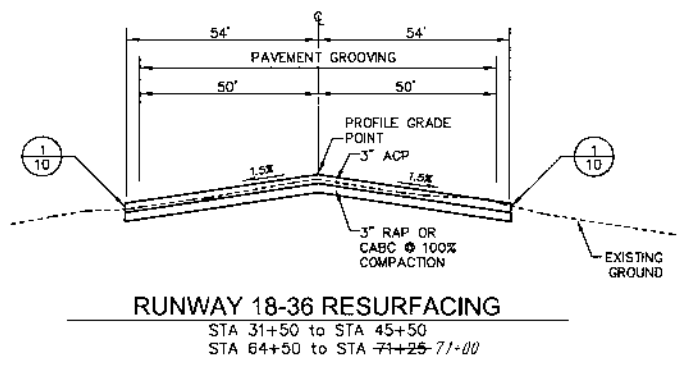
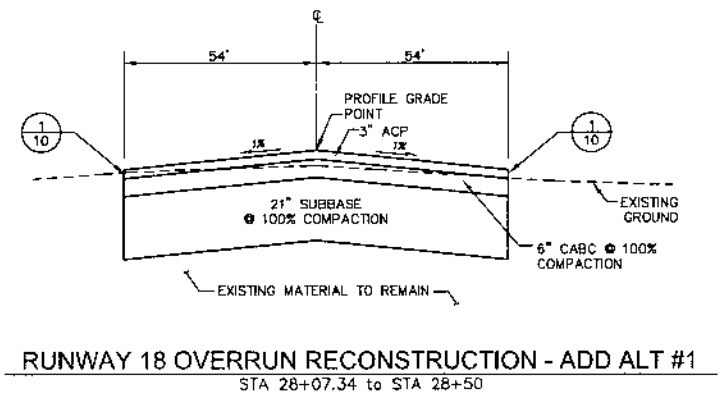
**STATE OF ALASKA**  
**DEPARTMENT OF TRANSPORTATION**  
**AND PUBLIC FACILITIES**  
**CENTRAL REGION**

**KING SALMON AIRPORT**  
 KING SALMON, ALASKA  
 AIRPORT IMPROVEMENTS  
 PROJECT NO. 53147  
 AIP No. 3-02-0148-10-2008  
 TYPICAL SECTIONS & DETAILS

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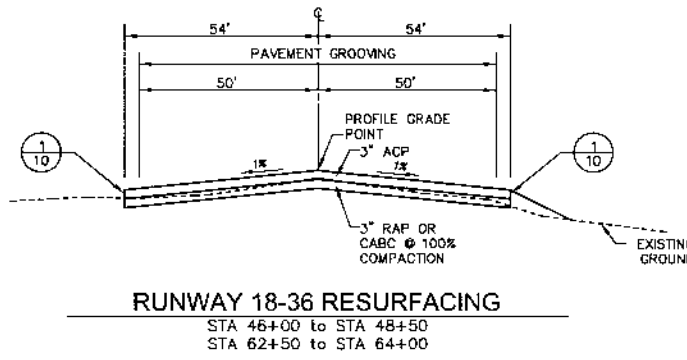
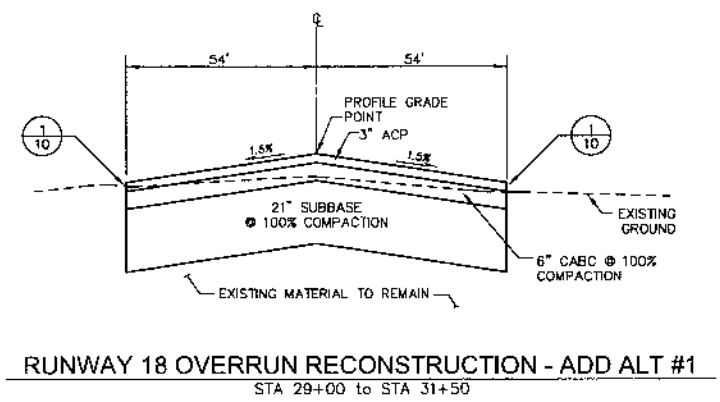
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 Scale: 1/10  
 Date: 12/28/09  
 Design By: AMS  
 Checked By: SGO/RRH  
 Drawn By:



**RUNWAY 18 OVERRUN RECONSTRUCTION - ADD ALT #1**  
STA 28+50 to STA 29+00

**RUNWAY 18-36 RESURFACING**  
STA 45+50 to STA 46+00  
STA 71+25 to STA 71+62  
STA 64+00 to STA 64+50

**RUNWAY 18-36 PAVEMENT EDGE**

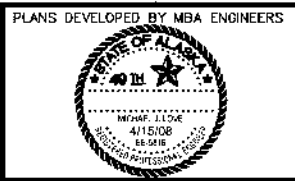


**RUNWAY 18 OVERRUN RECONSTRUCTION - ADD ALT #1**  
STA 29+00 to STA 31+50

**RUNWAY 18-36 RESURFACING**  
STA 46+00 to STA 48+50  
STA 62+50 to STA 64+00

- NOTES**
- EXCAVATION AND PROCESSING OF EXISTING AC PAVEMENT WILL BE PAID FOR UNDER P-161a.
  - RAP MAY NOT BE USED FOR THE RUNWAY 18 OVERRUN RECONSTRUCTION WORK.
  - ESTIMATED PAVEMENT THICKNESS VARIES BETWEEN 1.25" AND 6". SEE SUBSURFACE EXPLORATION REPORT PREPARED BY DOWL ENGINEERS DATED APRIL 2008 FOR PAVEMENT CORING DATA.
  - ALL RAP MATERIAL MUST BE USED BEFORE CABG CAN BE SUBSTITUTED.
  - EXCESS RAP IS THE PROPERTY OF THE STATE AND SHALL BE HAULED AND STOCKPILED AS DIRECTED BY THE ENGINEER.

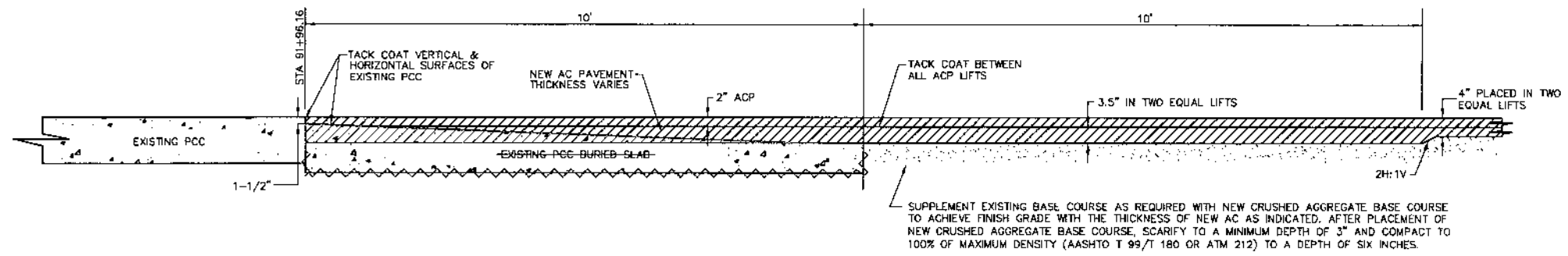
BY	DATE	REVISIONS	BY	DATE	REVISIONS



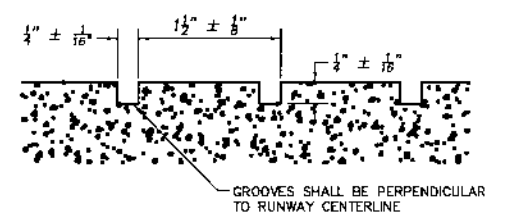
STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION  
 AND PUBLIC FACILITIES  
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**KING SALMON AIRPORT**  
 KING SALMON, ALASKA  
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 AIP No. 3-02-014B-10-2008  
 TYPICAL SECTIONS & DETAILS

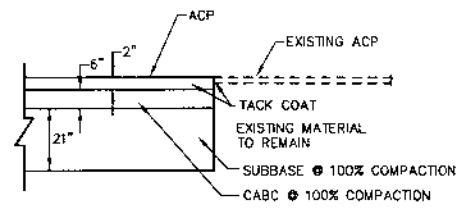
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 Project No: 53147  
 Scale: AS-BUILT  
 Date: 10/2009  
 Sheet: 11 OF 43



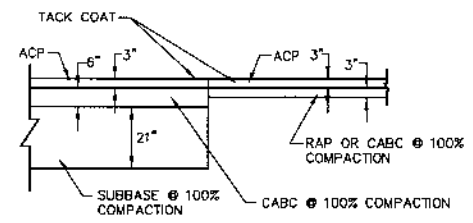
NEW ACP / EXISTING PCC TRANSITION



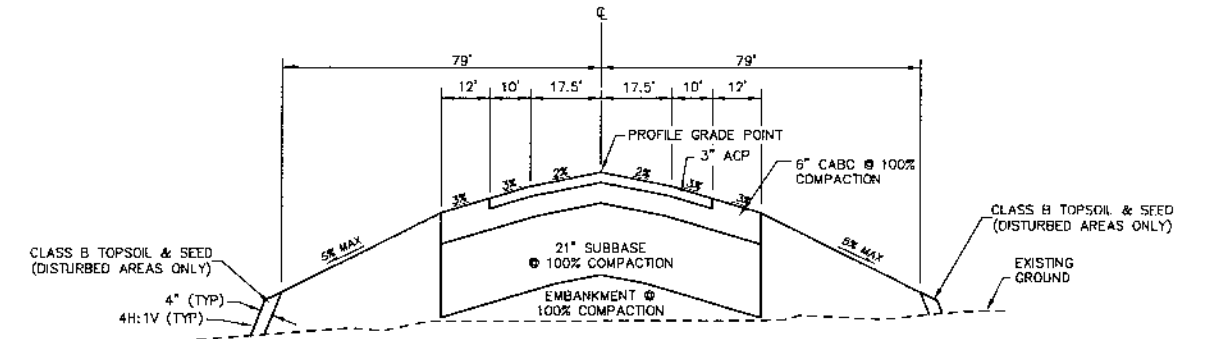
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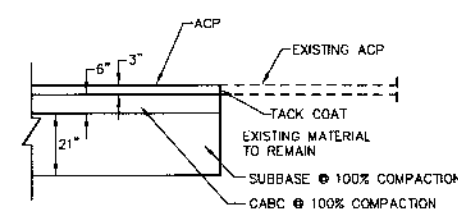
NEW 2" ACP / EXISTING ACP TRANSITION



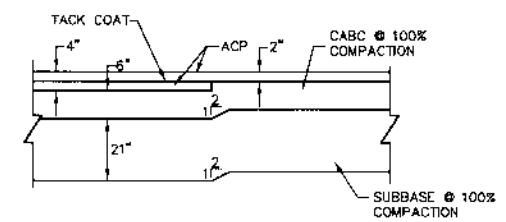
NEW 3" ACP / NEW 3" ACP & 3" RAP TRANSITION



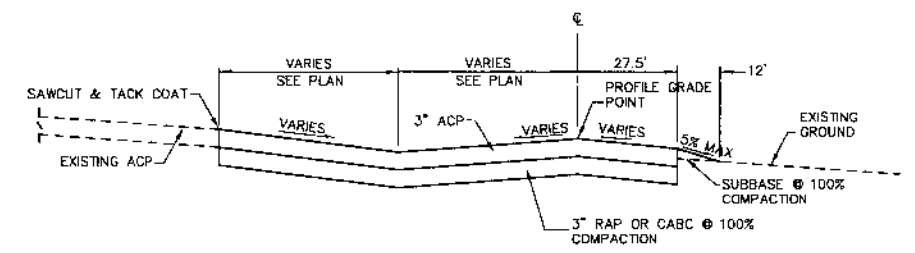
GA TAXIWAY - ADD ALT #2  
STA 401+50 to STA 403+39.31



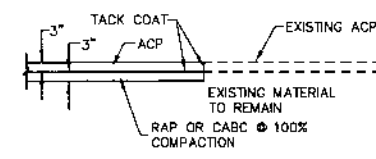
NEW 3" ACP / EXISTING ACP TRANSITION



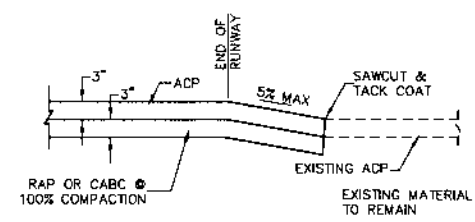
NEW 4" ACP / NEW 2" ACP TRANSITION



APRON PAVEMENT REPLACEMENT - ADD ALT #2



NEW 3" ACP & 3" RAP / EXISTING ACP TRANSITION



RUNWAY END TRANSITION

NOTES

- EXCAVATION AND PROCESSING OF EXISTING AC PAVEMENT WILL BE PAID FOR UNDER P-151a.
- ESTIMATED PAVEMENT THICKNESS VARIES BETWEEN 1.25" AND 6". SEE SUBSURFACE EXPLORATION REPORT PREPARED BY DOWL ENGINEERS DATED APRIL 2008 FOR PAVEMENT CORING DATA.
- ALL RAP MATERIAL MUST BE USED BEFORE CABC CAN BE SUBSTITUTED.
- EXCESS RAP IS THE PROPERTY OF THE STATE AND SHALL BE HAULED AND STOCKPILED AS DIRECTED BY THE ENGINEER.

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BY	DATE	REVISIONS	BY	DATE	REVISIONS

PLANS DEVELOPED BY MBA ENGINEERS



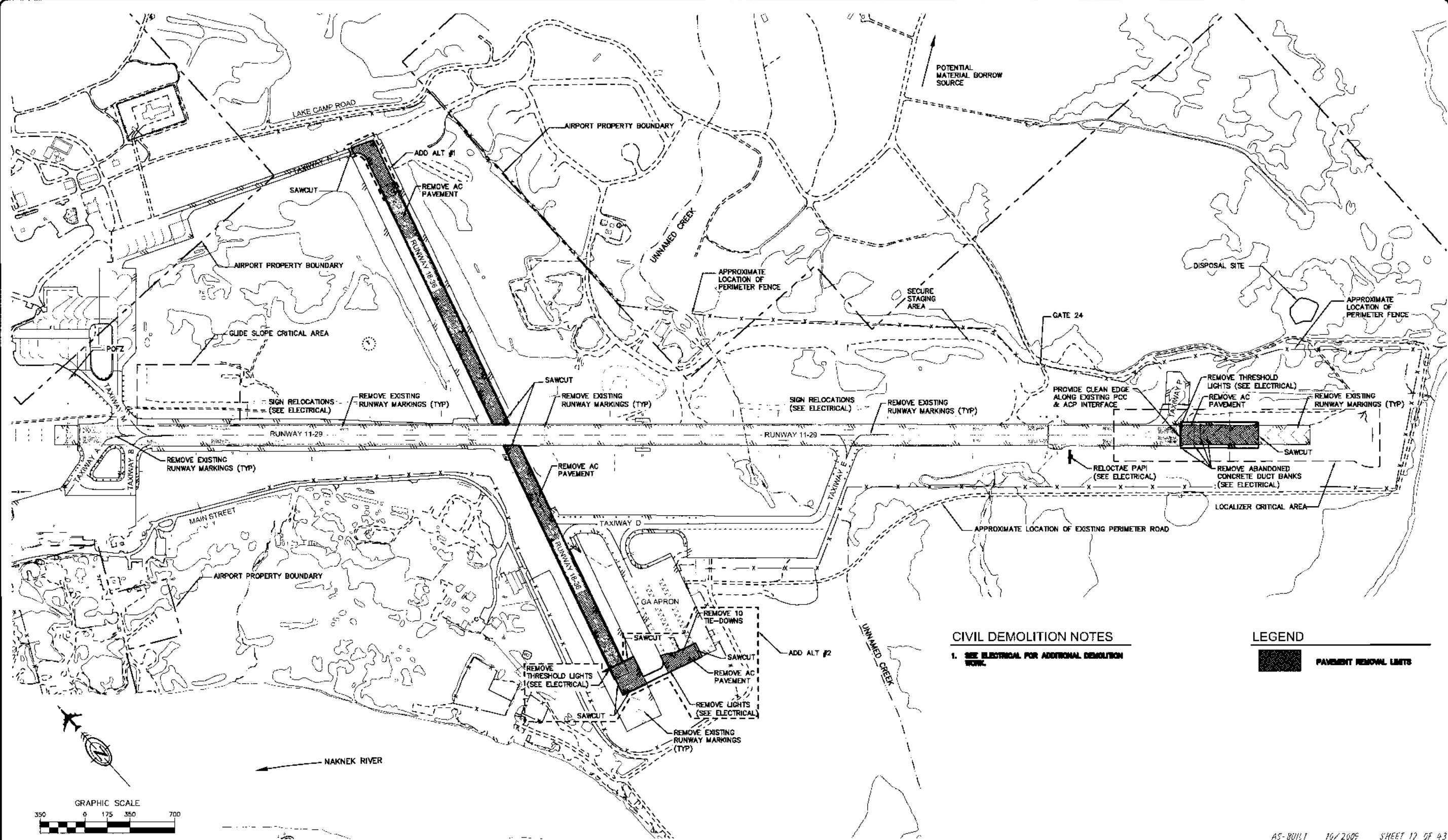
STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION  
 AND PUBLIC FACILITIES  
 CENTRAL REGION

**KING SALMON AIRPORT**  
 KING SALMON, ALASKA  
 AIRPORT IMPROVEMENTS  
 PROJECT NO. 53147  
 AIP No. 3-02-0148-10-2008  
 TYPICAL SECTIONS & DETAILS

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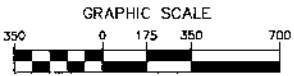


December 26, 2008  
 Design By: AMS  
 Checked By: SSO/BRH  
 Drawn By:  
 DOW FILE ID#D  
 SHEET FILE NO. 233-11  
 PROJECT FILE NO. 53147-AS-BUILT-10-2008  
 PROJECT NAME: King Salmon Airport Improvements  
 SHEET TITLE: CIVIL DEMOLITION



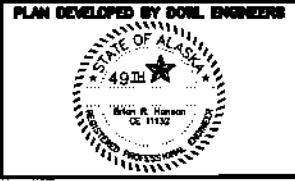
**CIVIL DEMOLITION NOTES**  
 1. SEE ELECTRICAL FOR ADDITIONAL DEMOLITION WORK.

**LEGEND**  
 [Shaded Box] PAVEMENT REMOVAL LIMITS



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BY	DATE	REVISIONS
	2/3/10	AS-BUILT

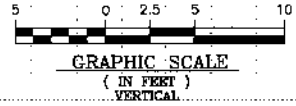
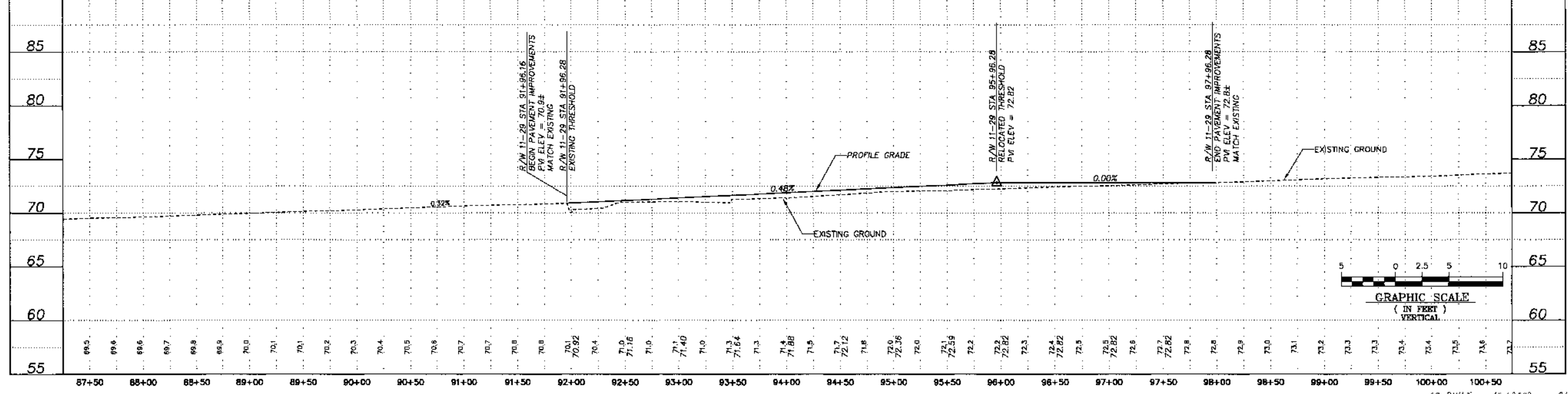
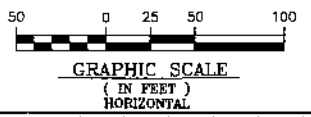
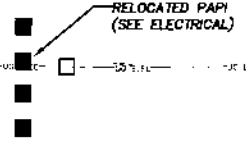
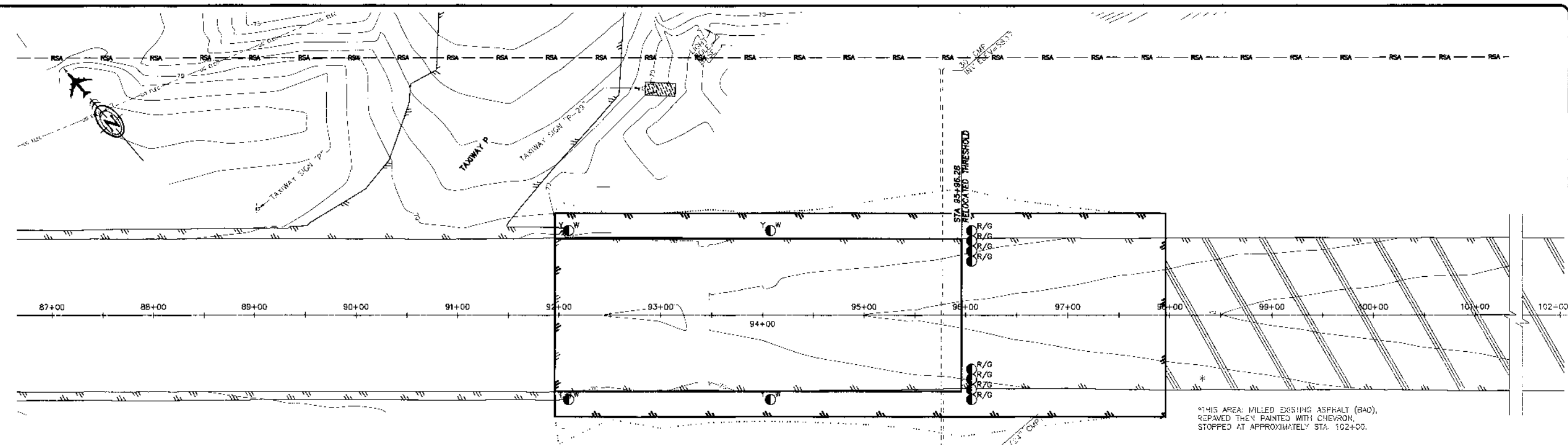


STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION  
 AND PUBLIC FACILITIES  
 CENTRAL REGION

**KING SALMON AIRPORT**  
 KING SALMON, ALASKA  
 AIRPORT IMPROVEMENTS  
 PROJECT NO. 53147  
 AIP No. 3-02-0148-10-2008  
 CIVIL DEMOLITION

SHEET  
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 OF  
 42

December 26, 2009  
 Data Plotted:  
 Plot Ratio and Layout:  
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 December 26, 2009  
 Script File Path:  
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AS-BUILT 16/2009 SHEET 13 OF 43

BY	DATE	REVISIONS	BY	DATE	REVISIONS
	2/3/10	AS-BUILT			



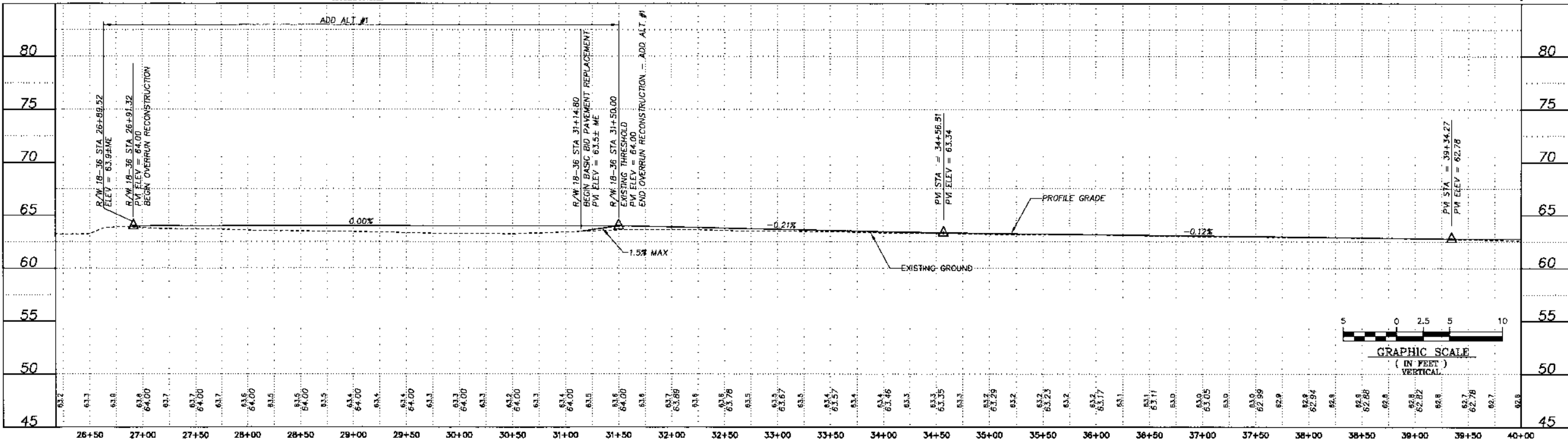
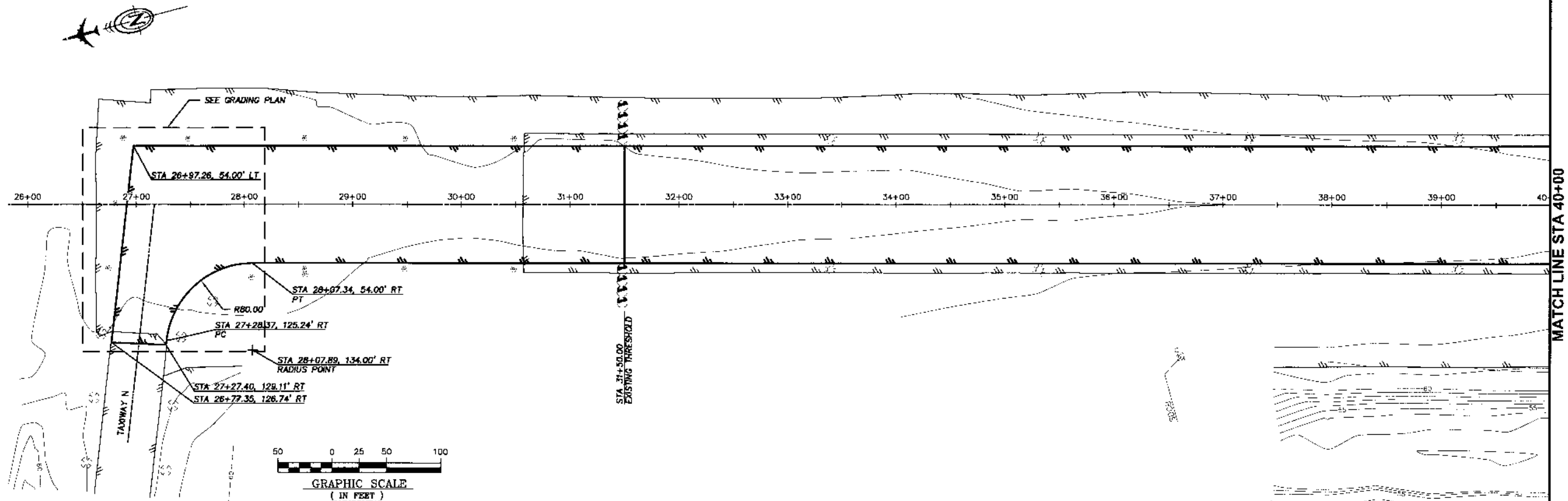
STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION  
 AND PUBLIC FACILITIES  
 CENTRAL REGION

KING SALMON AIRPORT  
 KING SALMON, ALASKA  
 AIRPORT IMPROVEMENTS  
 PROJECT NO. 53147  
 AIP No. 3-02-0148-10-2008  
 RUNWAY 29 THRESHOLD RELOCATION PLAN & PROFILE  
 STA 87+00 TO STA 101+00

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 OF  
 42



December 26, 2008  
 DWG. No. 53147-10-010  
 Project: King Salmon Airport Runway 18-36  
 File: 53147-10-010.dwg  
 Design: J. S. ...  
 Check: ...  
 Draw: ...



BY	DATE	REVISIONS

PLAN DEVELOPED BY DONL ENGINEERS  
 STATE OF ALASKA  
 403  
 10/10 AS-BUILT

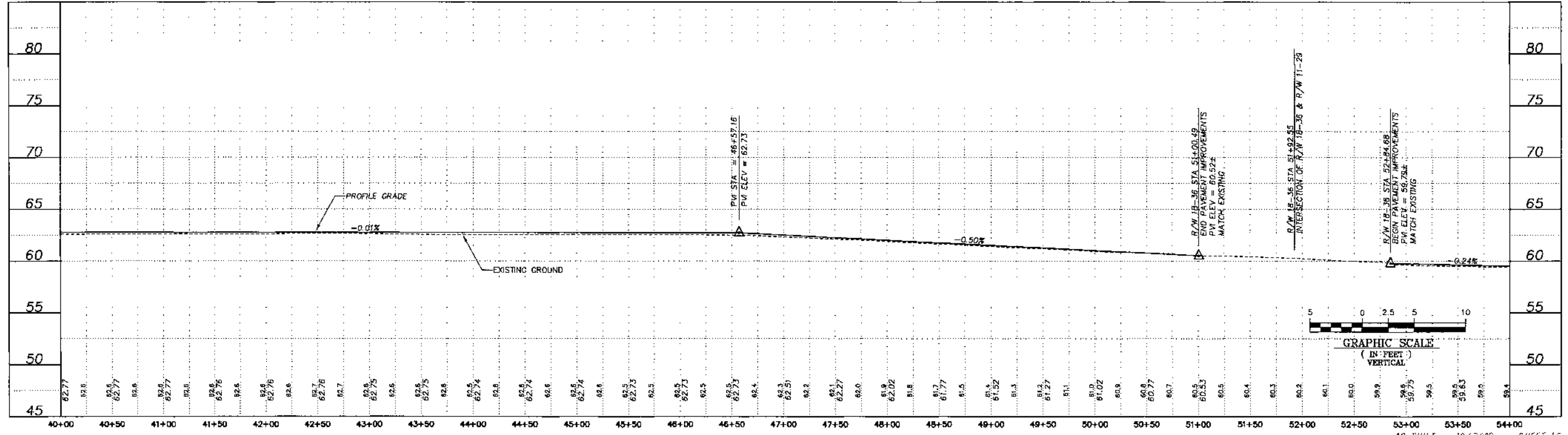
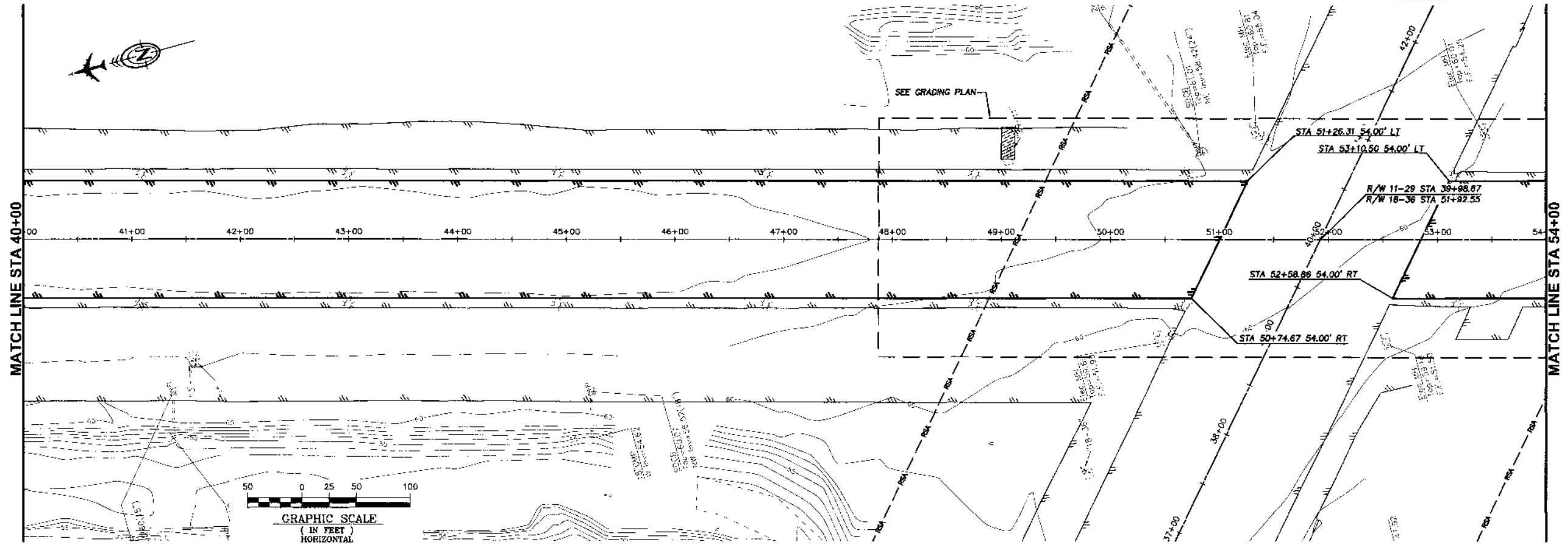
STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION  
 AND PUBLIC FACILITIES  
 CENTRAL REGION

**KING SALMON AIRPORT**  
 KING SALMON, ALASKA  
 AIRPORT IMPROVEMENTS  
 PROJECT NO. 53147  
 AIP No. 3-02-0148-10-2008  
 RUNWAY 18-36 PLAN & PROFILE  
 STA 26+50 TO STA 40+00

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 OF  
 42

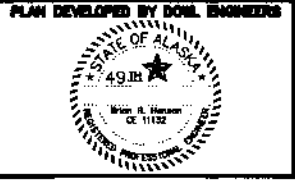
AS-BUILT 10/2009 SHEET 14 OF 43

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 Checked By: SCD/BCH  
 Drawn By:



AS-BUILT 10/2009 SHEET 15 OF 42

BY	DATE	REVISIONS	BY	DATE	REVISIONS



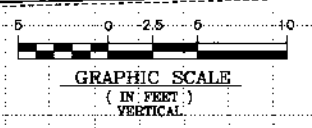
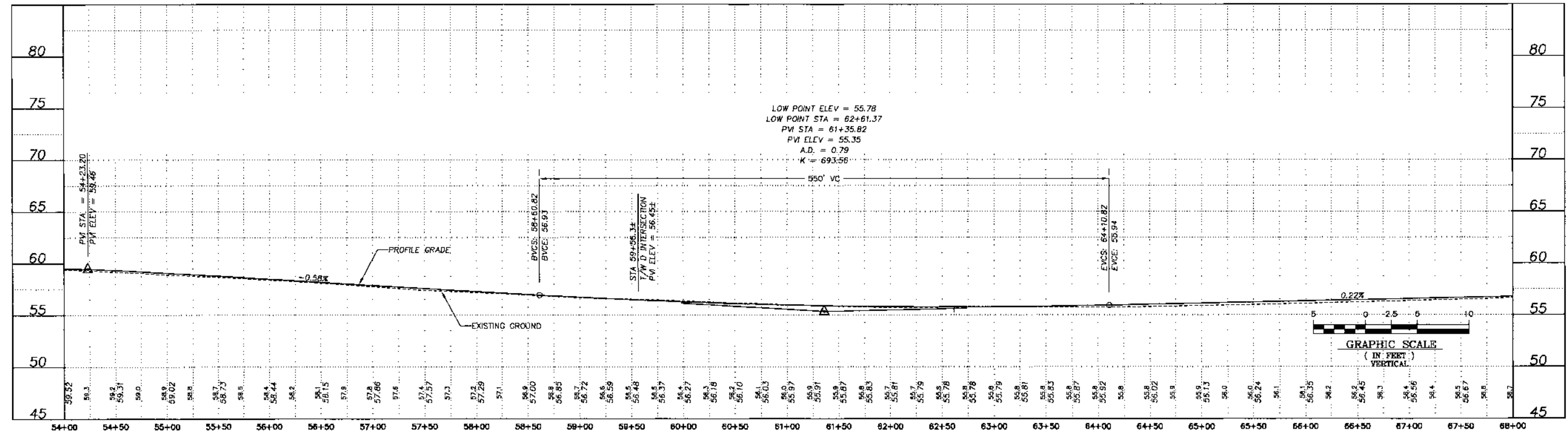
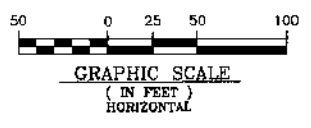
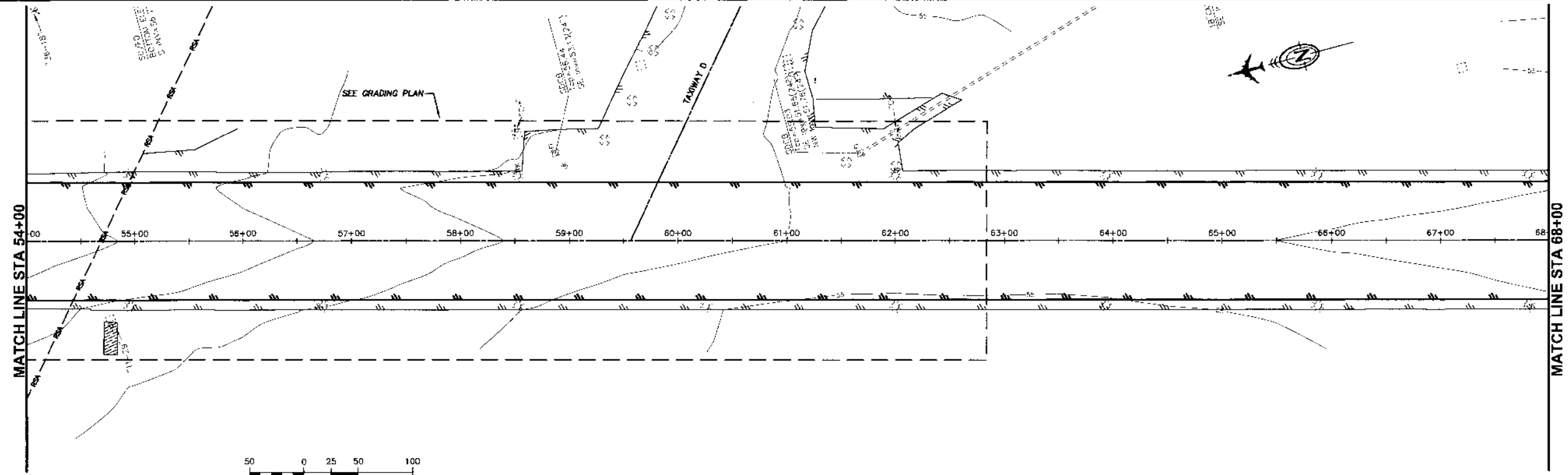
STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION  
 AND PUBLIC FACILITIES  
 CENTRAL REGION

KING SALMON AIRPORT  
 KING SALMON, ALASKA  
 AIRPORT IMPROVEMENTS  
 PROJECT NO. 53147  
 AIP No. 3-02-0148-10-2008  
 RUNWAY 18-36 PLAN & PROFILE  
 STA 40+00 TO STA 54+00

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 OF  
 42

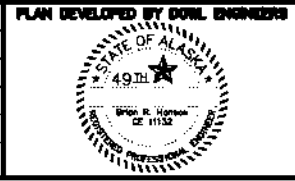


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 Checked By: SGP/BRH  
 Drawn By: 10.36.31



AS-BUILT 10/2009 SHEET 16 OF 43

BY	DATE	REVISIONS	BY	DATE	REVISIONS

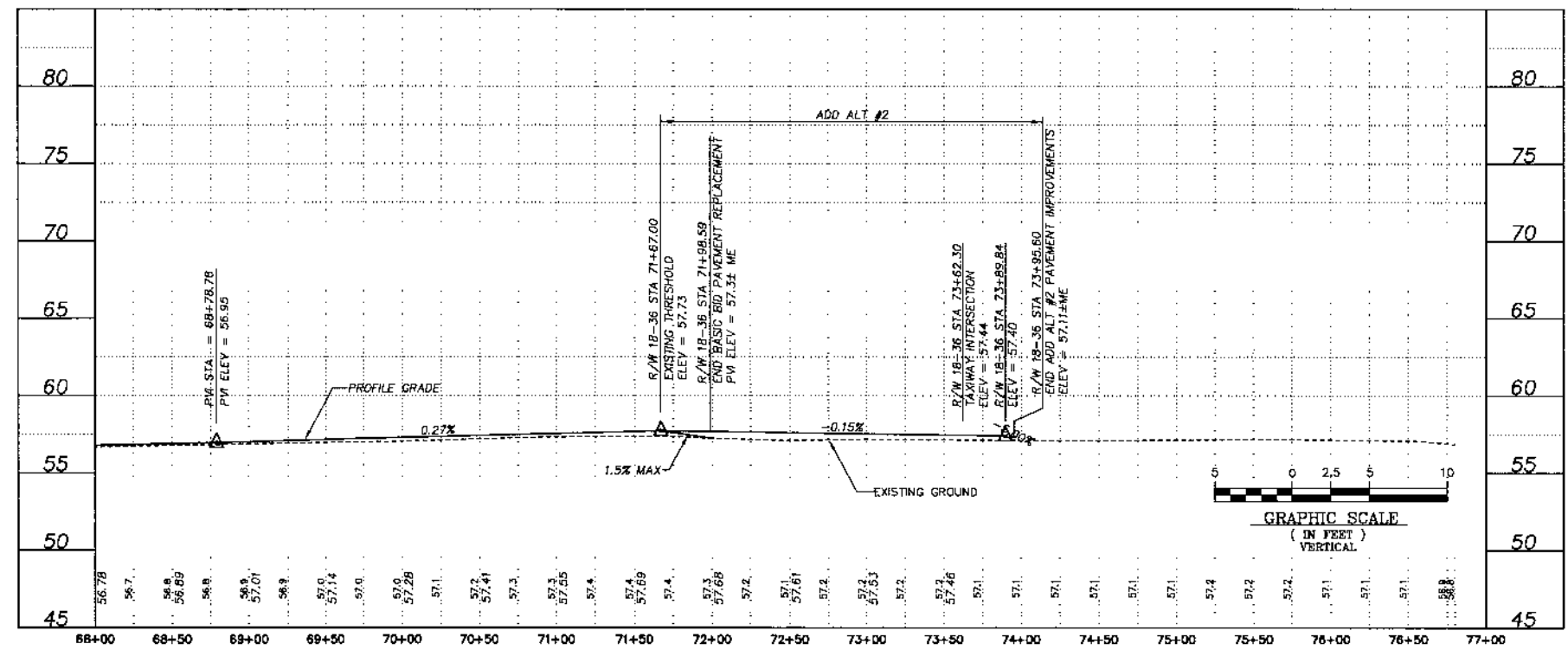
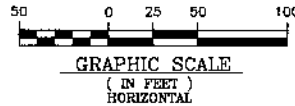
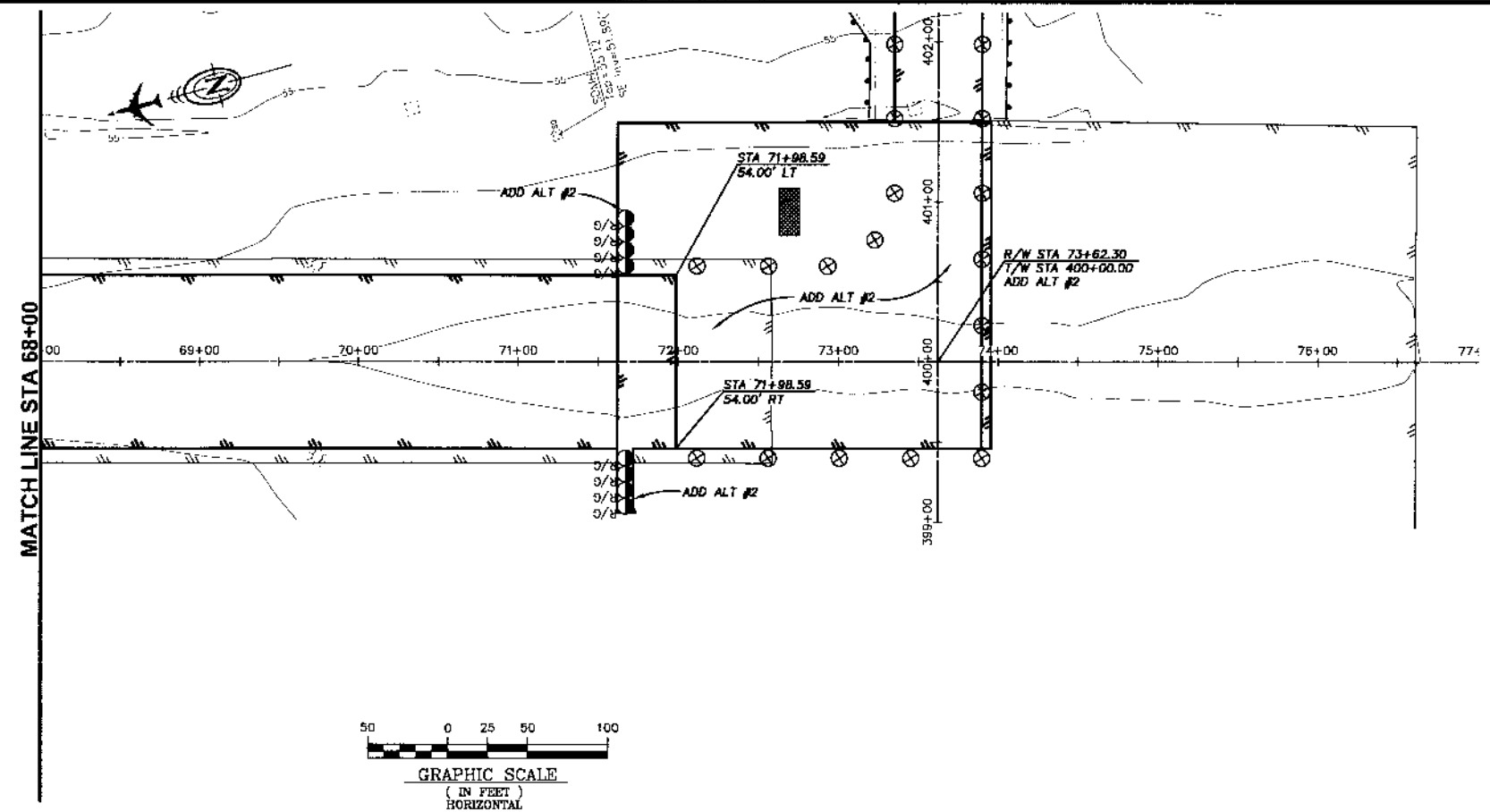


STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION  
 AND PUBLIC FACILITIES  
 CENTRAL REGION

KING SALMON AIRPORT  
 KING SALMON, ALASKA  
 AIRPORT IMPROVEMENTS  
 PROJECT NO. 53147  
 AIP No. 3-02-0148-10-2008  
 RUNWAY 18-36 PLAN & PROFILE  
 STA 54+00 TO STA 68+00

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 16  
 OF  
 42

Date Plotted: December 28, 2009  
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 Drawn By: AMS  
 Checked By: SCD/BRH  
 Design By:



68+00 68+50 69+00 69+50 70+00 70+50 71+00 71+50 72+00 72+50 73+00 73+50 74+00 74+50 75+00 75+50 76+00 76+50 77+00

AS-BUILT 10/2009 SHEET 17 OF 43

BY	DATE	REVISIONS	BY	DATE	REVISIONS



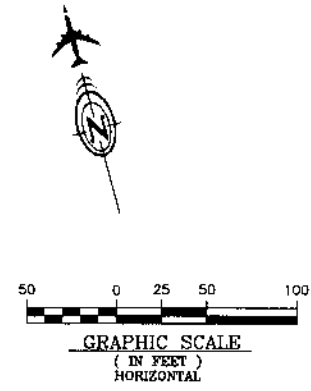
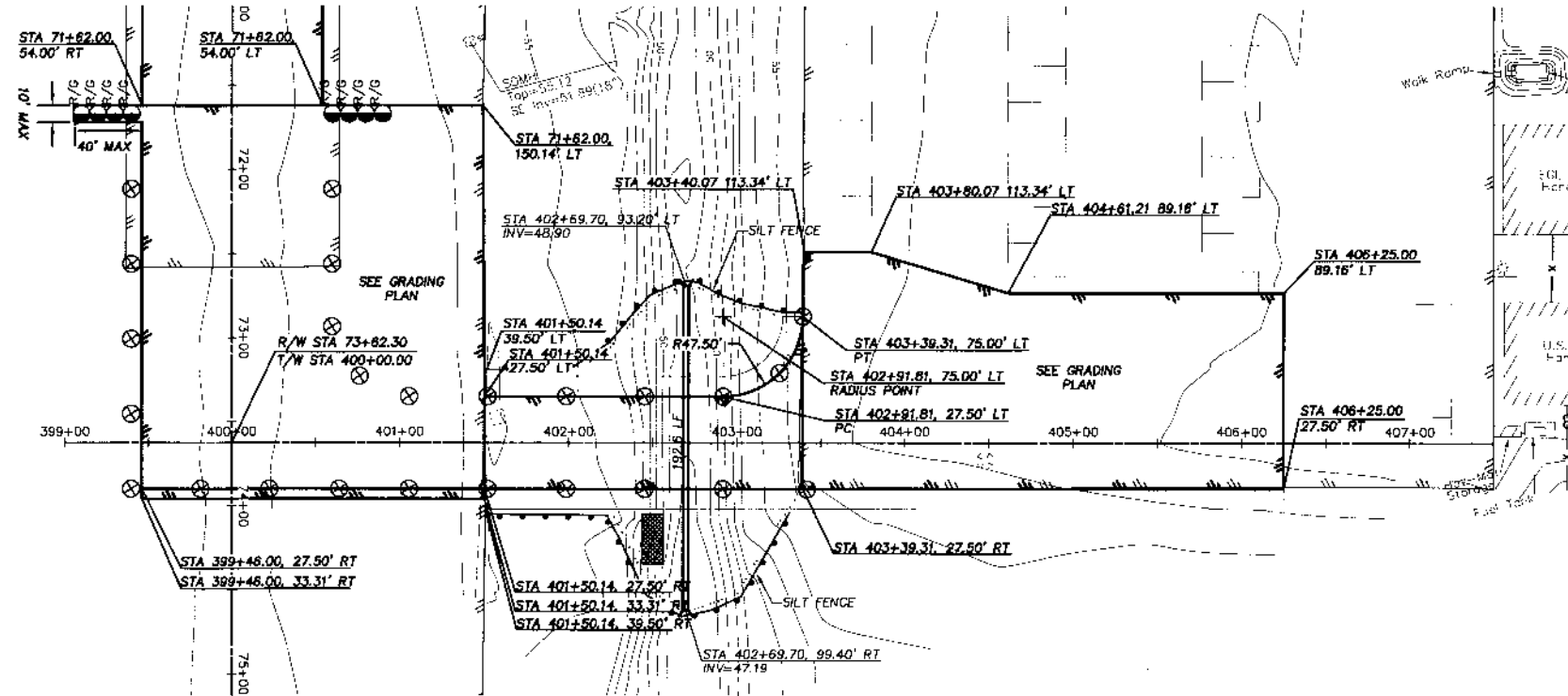
STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION  
 AND PUBLIC FACILITIES  
 CENTRAL REGION

**KING SALMON AIRPORT**  
 KING SALMON, ALASKA  
 AIRPORT IMPROVEMENTS  
 PROJECT NO. 53147  
 A/P No. 3-02-0148-10-2008  
 RUNWAY 18-36 PLAN & PROFILE  
 STA 68+00 TO STA 77+00

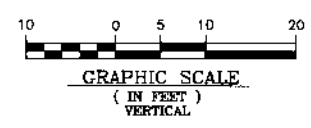
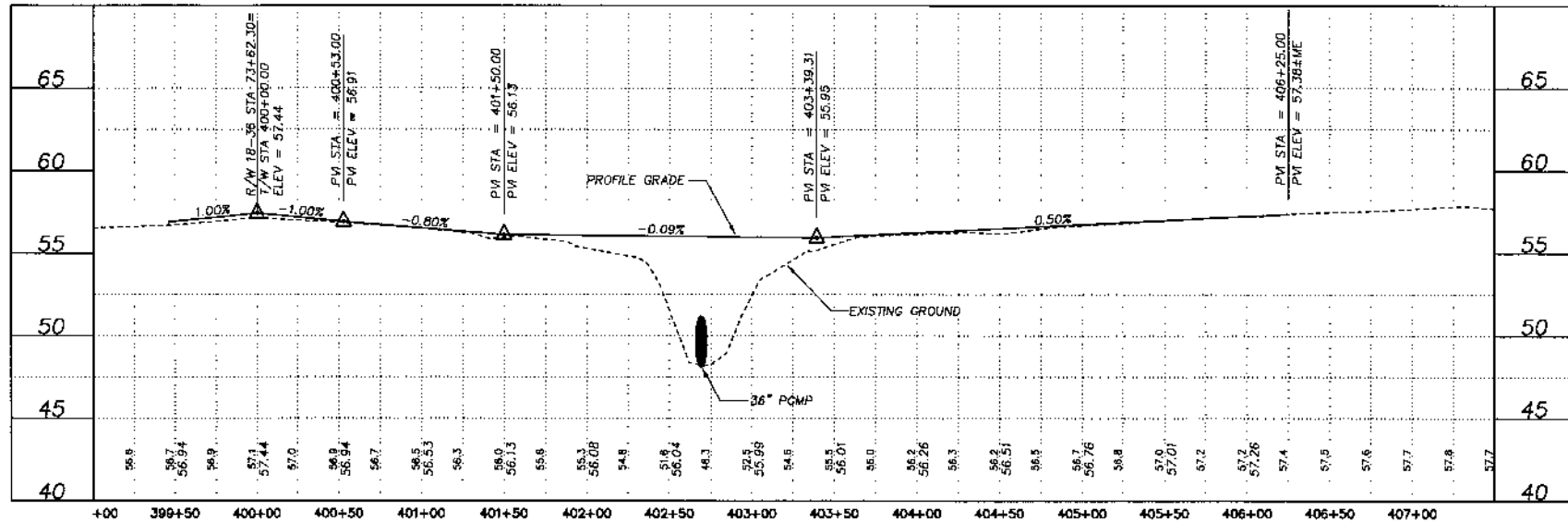
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 17  
 OF  
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Date Plotted: December 28, 2009  
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 Drawn By: AMS  
 Checked By: SOD/BRN  
 Created By: SOD/BRN  
 Date: 12/23/09  
 Drawn: 12/23/09  
 Project: King Salmon Airport Improvements, Project No. 53147, Additive Alternate #2



**NOTE:**  
 ALL STATIONS AND OFFSETS ARE BASED  
 ON THE TAXIWAY CENTERLINE UNLESS  
 OTHERWISE NOTED.



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BY	DATE	REVISIONS	BY	DATE	REVISIONS

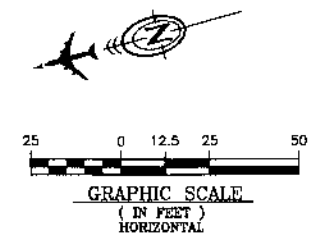
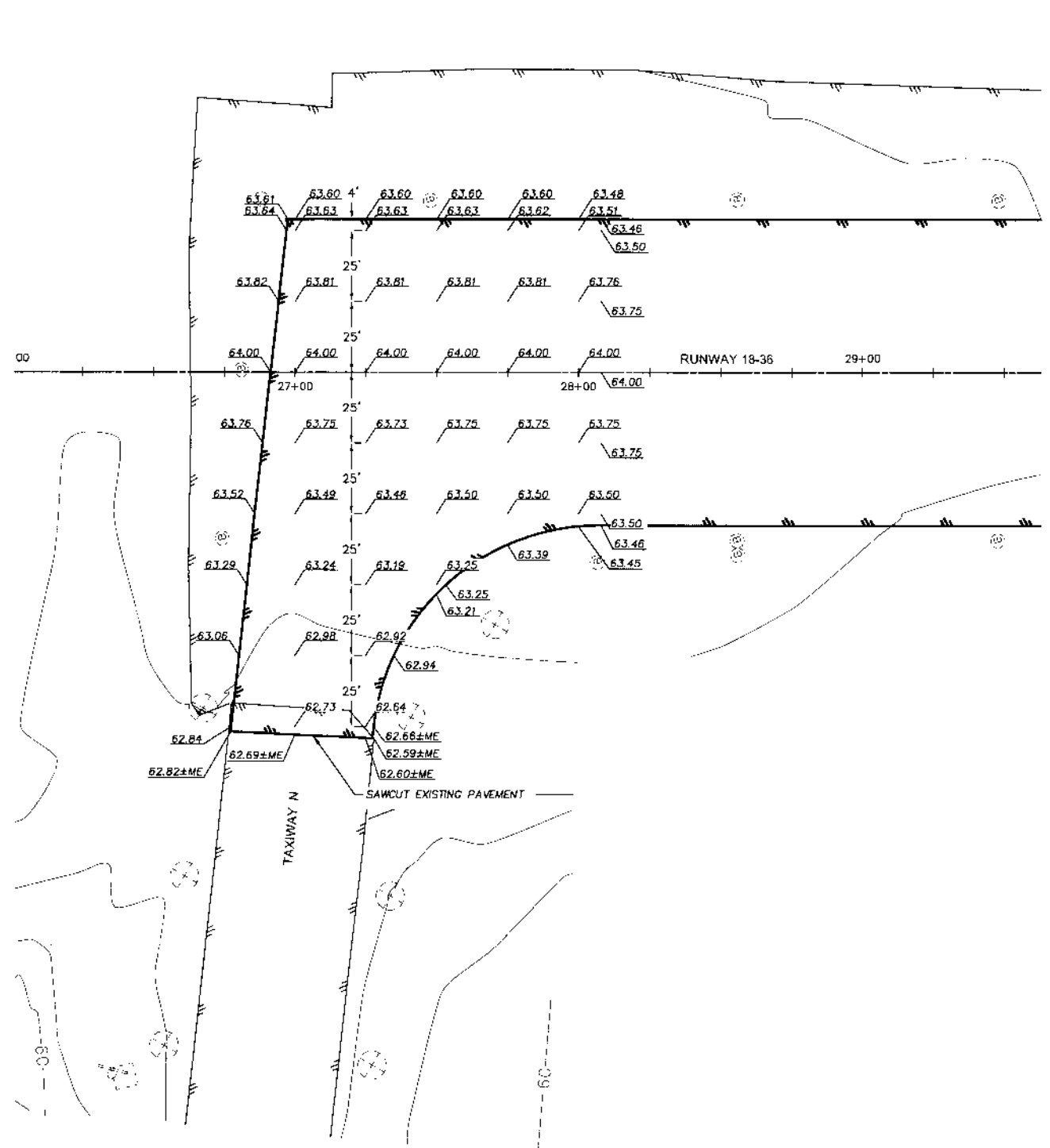


STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION  
 AND PUBLIC FACILITIES  
 CENTRAL REGION

**KING SALMON AIRPORT**  
 KING SALMON, ALASKA  
 AIRPORT IMPROVEMENTS  
 PROJECT NO. 53147  
 AIP No. 3-02-0148-10-2008  
 TAXIWAY & APRON PLAN & PROFILE  
 ADDITIVE ALTERNATE #2

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 OF  
 42

Date Plotted: December 28, 2009  
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 Drawn By:



AS-BUILT 10/2009 SHEET 19 OF 43

BY	DATE	REVISIONS	BY	DATE	REVISIONS

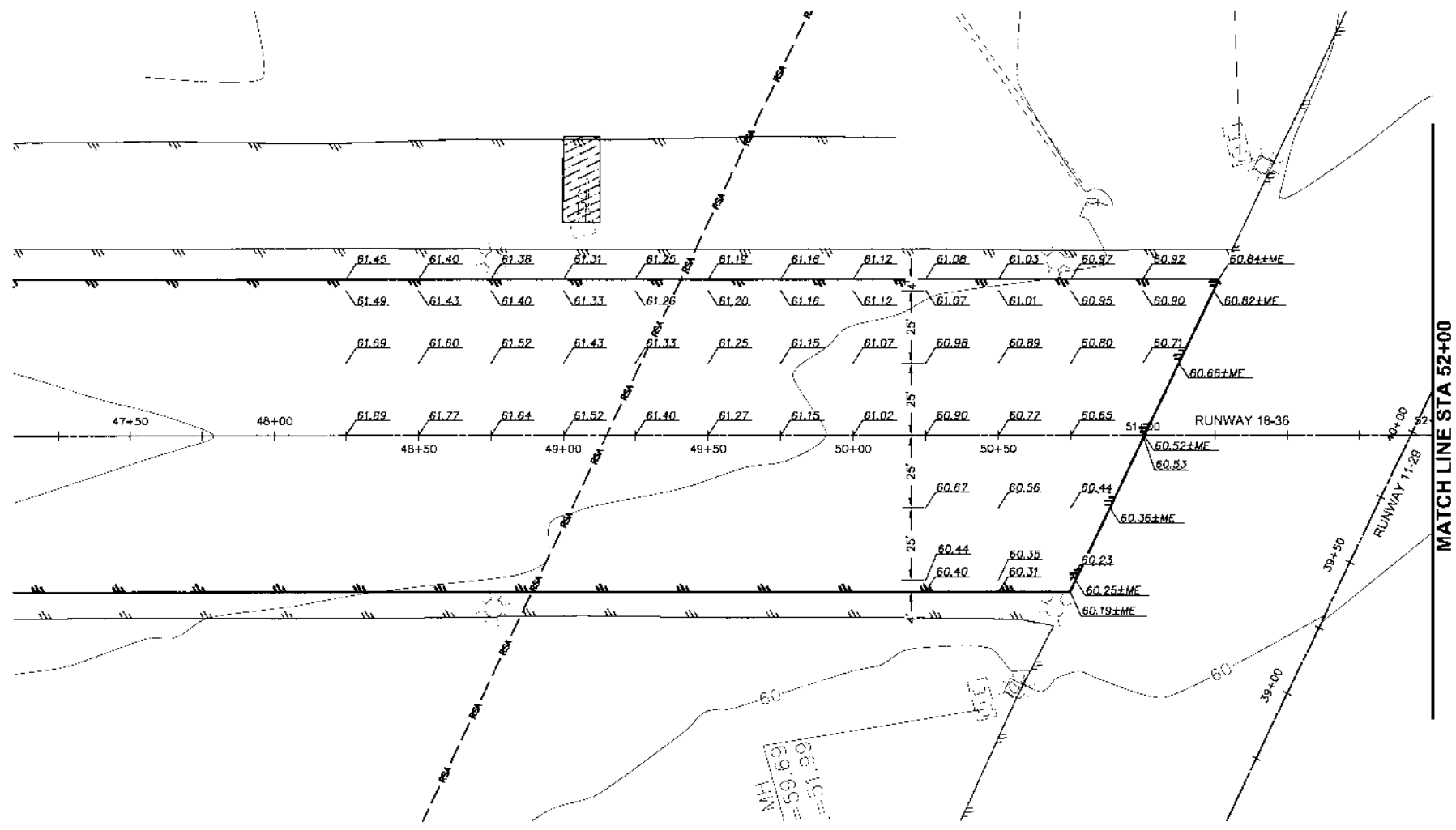
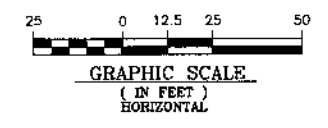


**STATE OF ALASKA**  
**DEPARTMENT OF TRANSPORTATION**  
**AND PUBLIC FACILITIES**  
**CENTRAL REGION**

**KING SALMON AIRPORT**  
 KING SALMON, ALASKA  
 AIRPORT IMPROVEMENTS  
 PROJECT NO. 53147  
 AIP No. 3-02-0148-10-2008  
 GRADING PLAN - TAXIWAY N INTERSECTION  
 ADDITIVE ALTERNATE #1

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**42**



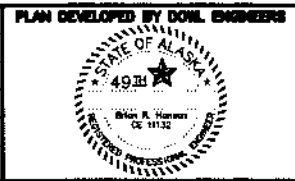


December 28, 2009  
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 Designed By: AMS  
 SDO/RRH  
 Checked By:  
 Drawn By:

MH  
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BY	DATE	REVISIONS	BY	DATE	REVISIONS



PLAN DEVELOPED BY DOWL ENGINEERS  
 STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION  
 AND PUBLIC FACILITIES  
 CENTRAL REGION

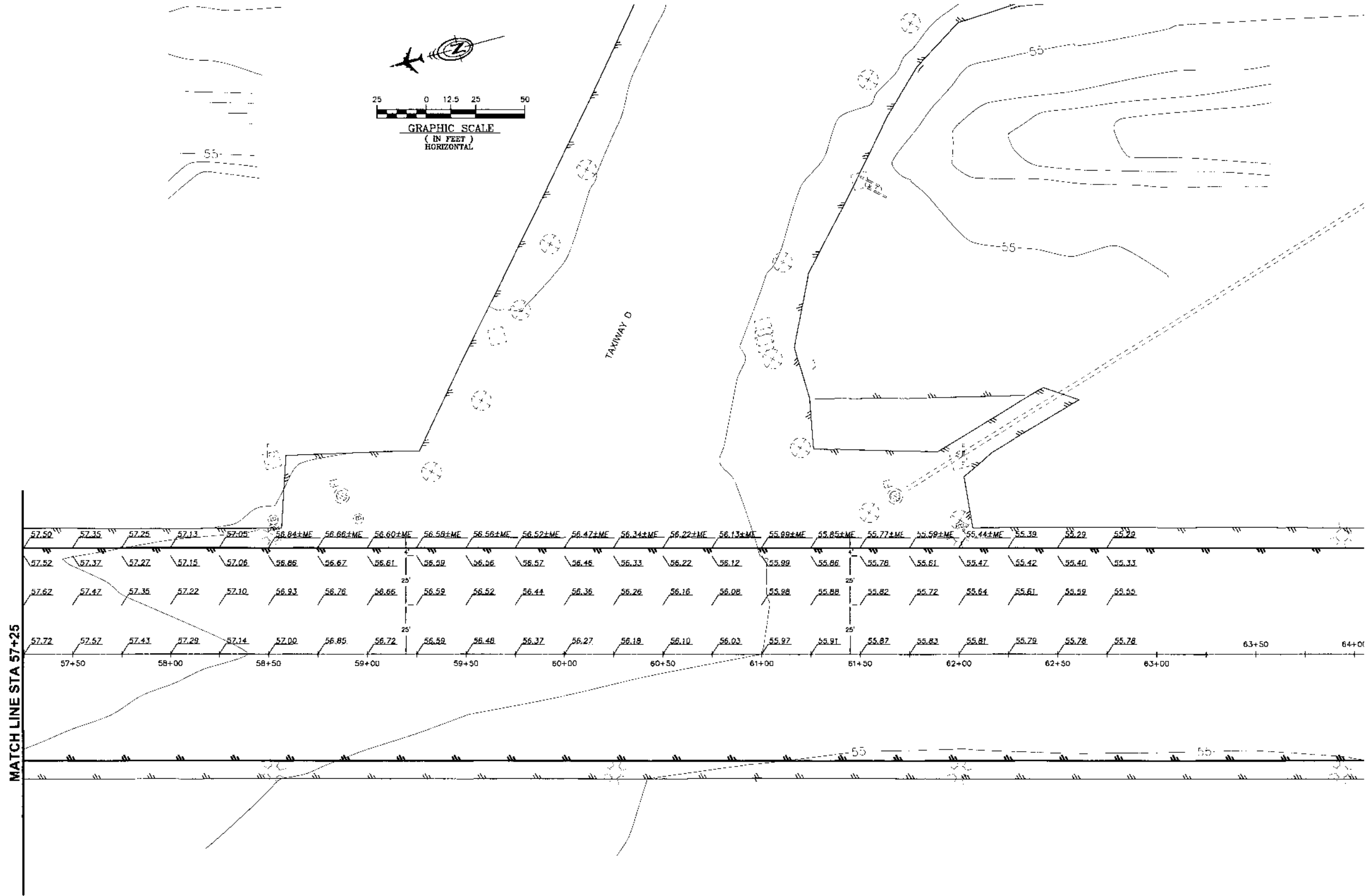
KING SALMON AIRPORT  
 KING SALMON, ALASKA  
 AIRPORT IMPROVEMENTS  
 PROJECT NO. 53147  
 AIP No. 3-02-0148-10-2008  
 GRADING PLAN  
 RUNWAY 18-36 & RUNWAY 11-29 INTERSECTION

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 42





December 26, 2008  
 Date Plotted:  
 Plot Ratio and Layout:  
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 Project: King Salmon Airport  
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 Checked By:  
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AS-BUILT 10/2009 SHEET 22 OF 43

BY	DATE	REVISIONS	BY	DATE	REVISIONS

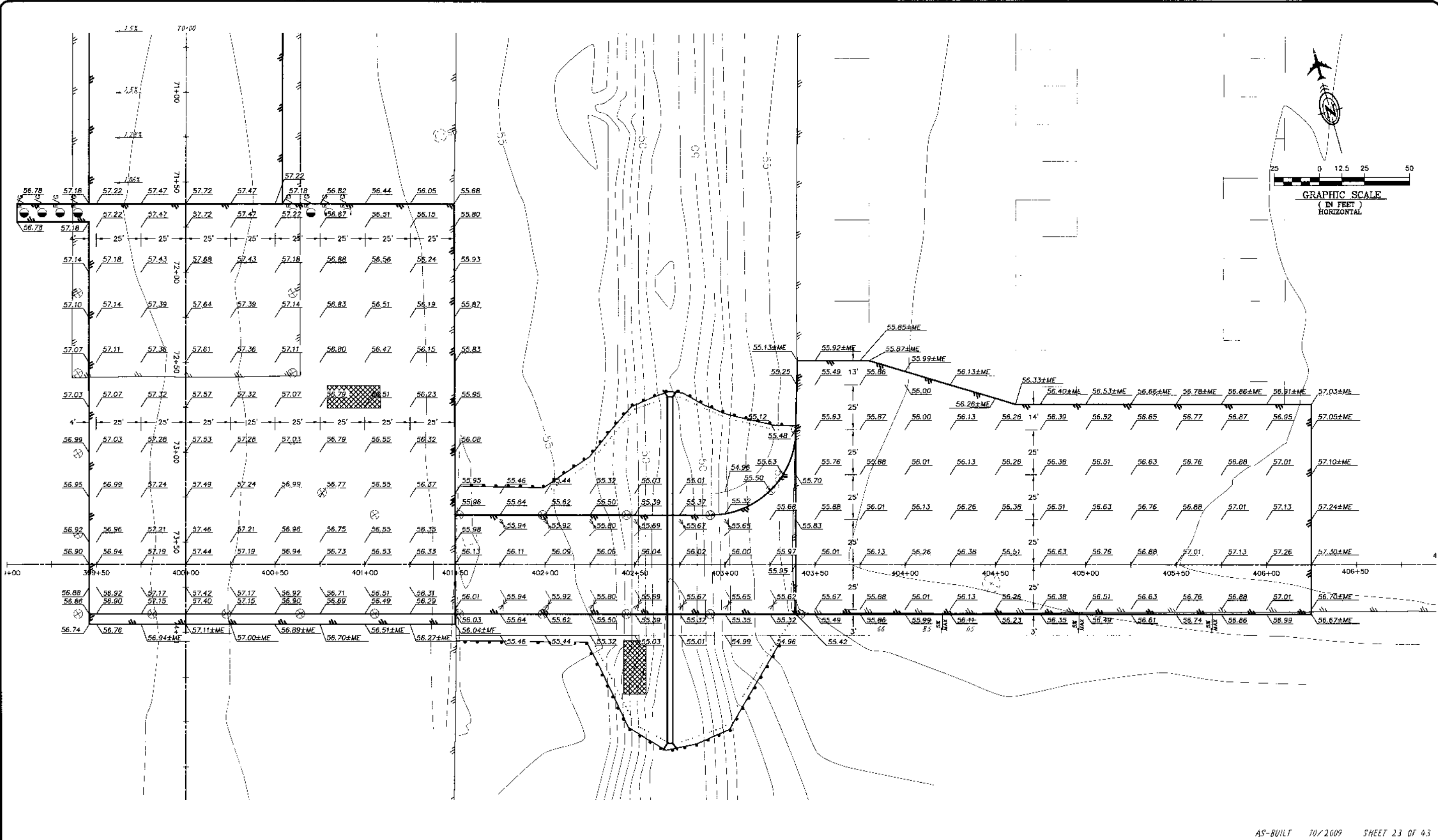


STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION  
 AND PUBLIC FACILITIES  
 CENTRAL REGION

**KING SALMON AIRPORT**  
 KING SALMON, ALASKA  
 AIRPORT IMPROVEMENTS  
 PROJECT NO. 53147  
 AIP No. 3-02-0148-10-2008  
 GRADING PLAN  
 TAXIWAY D INTERSECTION

SHEET  
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 OF  
 42

December 28, 2008  
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 DESIGNED BY: AUS  
 CHECKED BY: SJO/BRH  
 DRAWN BY:



AS-BUILT 10/2009 SHEET 23 OF 43

BY	DATE	REVISIONS

PLAN DEVELOPED BY DOWL ENGINEERS

AS-BUILT

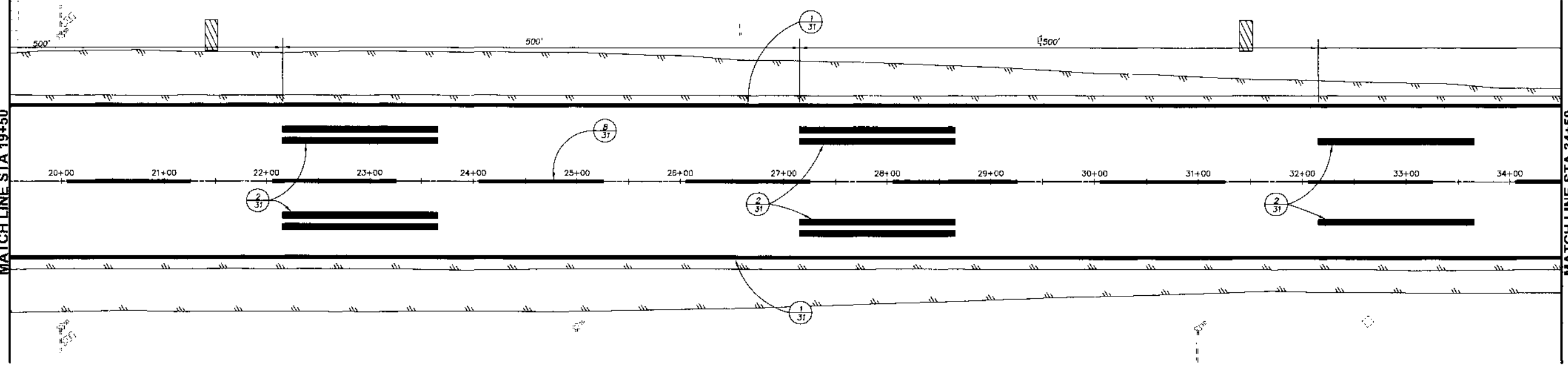
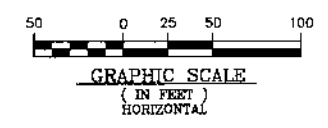
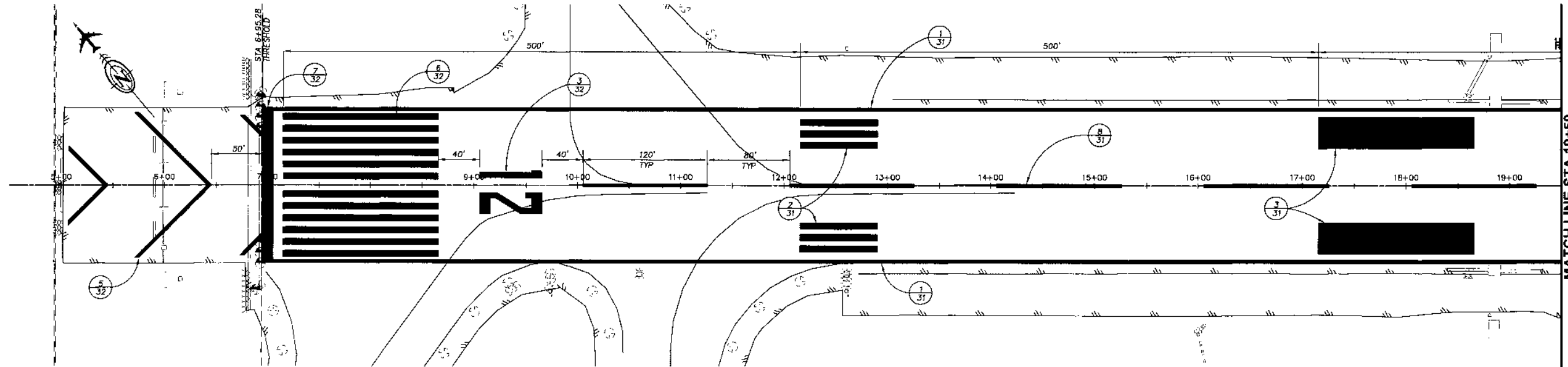
STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION  
 AND PUBLIC FACILITIES  
 CENTRAL REGION

**KING SALMON AIRPORT**  
 KING SALMON, ALASKA  
 AIRPORT IMPROVEMENTS  
 PROJECT NO. 53147  
 AIP No. 3-02-0148-10-2008  
 GRADING PLAN - RUNWAY 36 END, TAXIWAY, & GA APRON  
 ADDITIVE ALTERNATE #2

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 OF  
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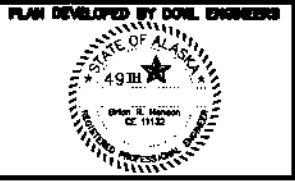


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 Plotted By: AMS  
 Checked By: SGO/BSH  
 Drawn By:



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BY	DATE	REVISIONS	BY	DATE	REVISIONS



STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION  
 AND PUBLIC FACILITIES  
 CENTRAL REGION

**KING SALMON AIRPORT**  
 KING SALMON, ALASKA  
 AIRPORT IMPROVEMENTS  
 PROJECT NO. 53147  
 AIP No. 3-02-0148-10-2008  
 RUNWAY 12-30 MARKING LAYOUT PLAN  
 STA 5+00 TO STA 34+50

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 OF  
 42





December 26, 2009  
 Data Sighted: Plot, Repts and Layout: FILE  
 Design: V. Yang, Salomon, Yang, Salomon  
 53147 AS-BUILT Runway Marking  
 2008-1-18 10:36:31  
 Drawn: B.C.  
 Checked By: SGO/BRH  
 AMS  
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 SHEET FILE MARKING  
 SHEET FILE MARKING



AS-BUILT 10/2009 SHEET 26 OF 43

BY	DATE	REVISIONS	BY	DATE	REVISIONS

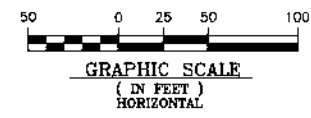
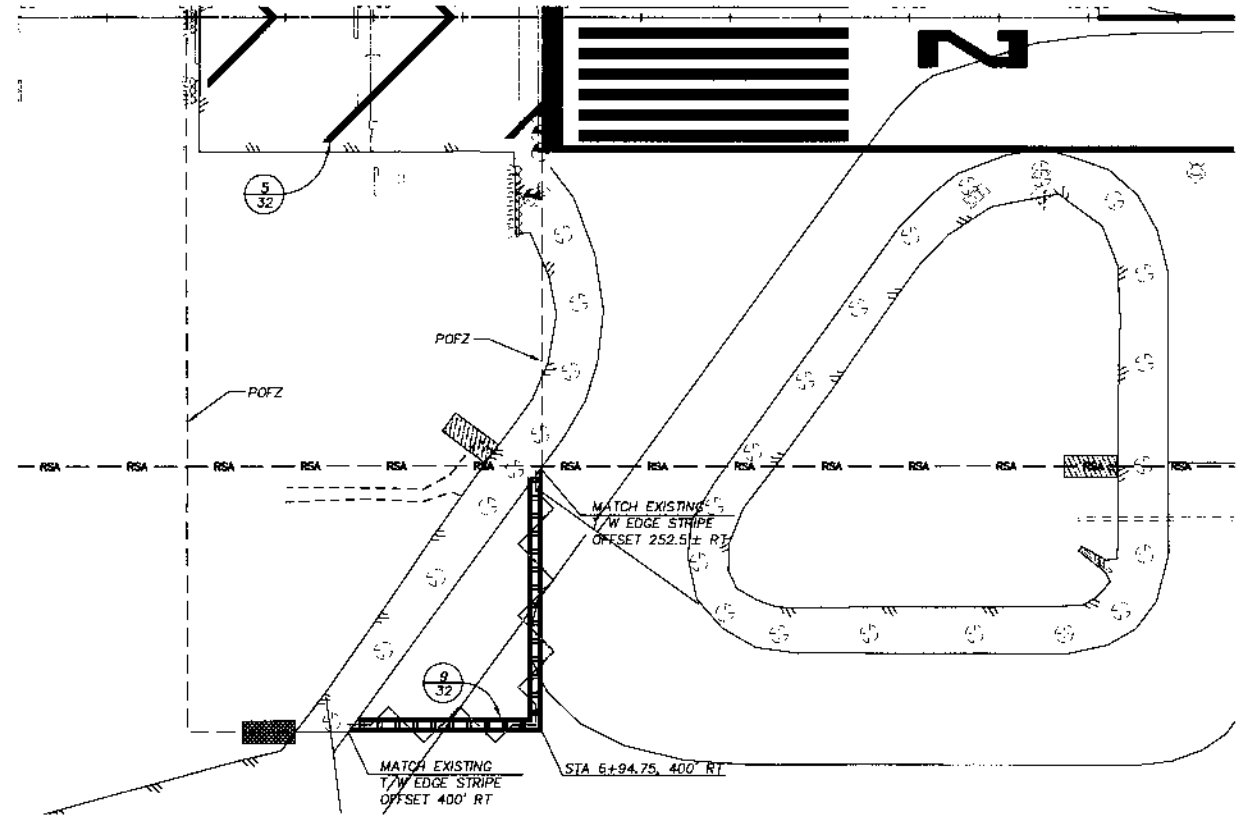
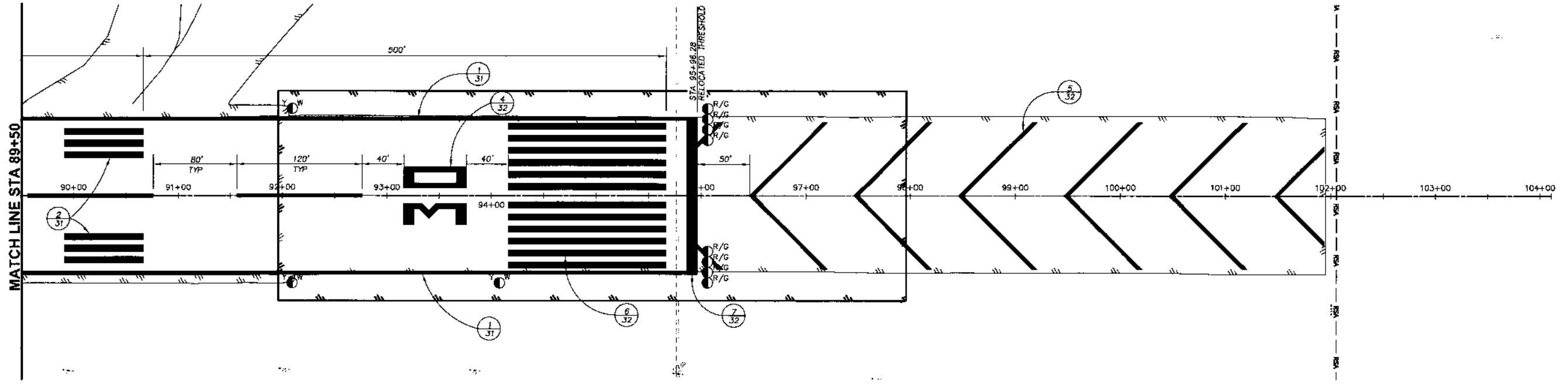


STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION  
 AND PUBLIC FACILITIES  
 CENTRAL REGION

**KING SALMON AIRPORT**  
 KING SALMON, ALASKA  
 AIRPORT IMPROVEMENTS  
 PROJECT NO. 53147  
 AIP No. 3-02-0148-10-2008  
 RUNWAY 12-30 MARKING LAYOUT PLAN  
 STA 64+50 TO STA 89+50

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 OF  
 42

Date Plotted: December 28, 2008  
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 Designed By: AMS  
 Checked By: SGO/ZRH  
 Drawn By:



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BY	DATE	REVISIONS	BY	DATE	REVISIONS

PLAN DEVELOPED BY DOWL ENGINEERS

STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION  
 AND PUBLIC FACILITIES  
 CENTRAL REGION

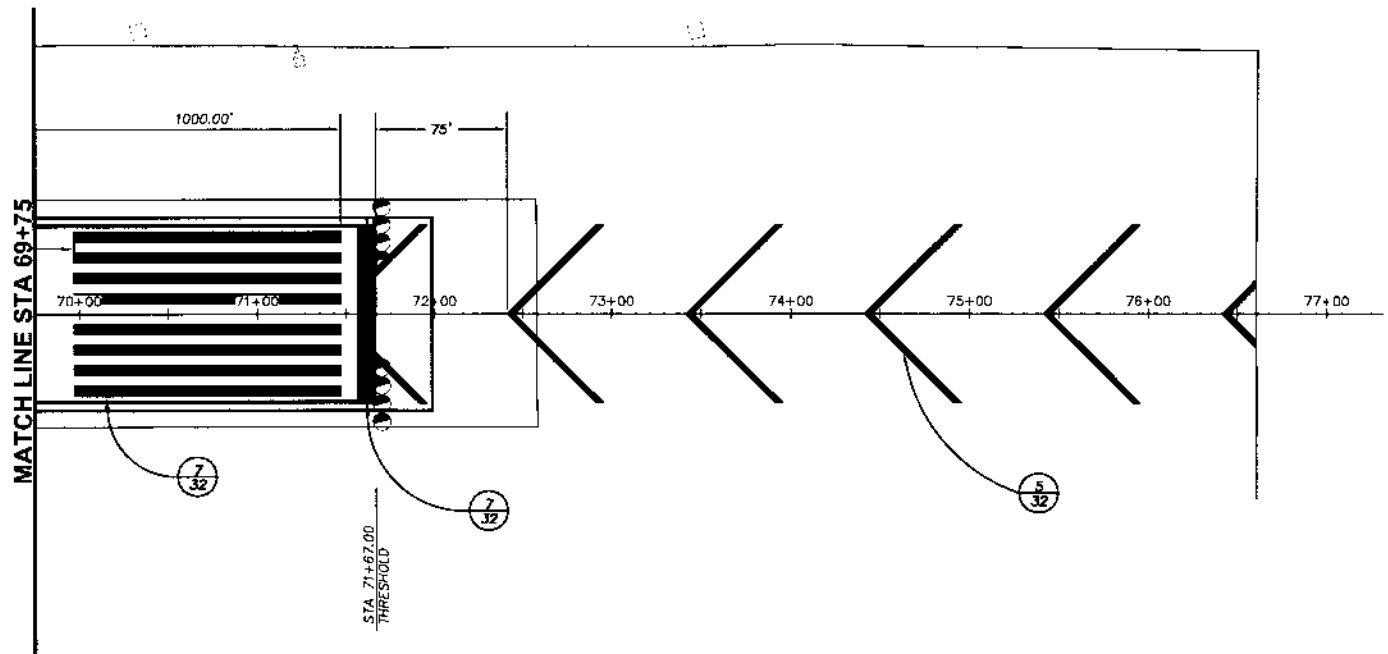
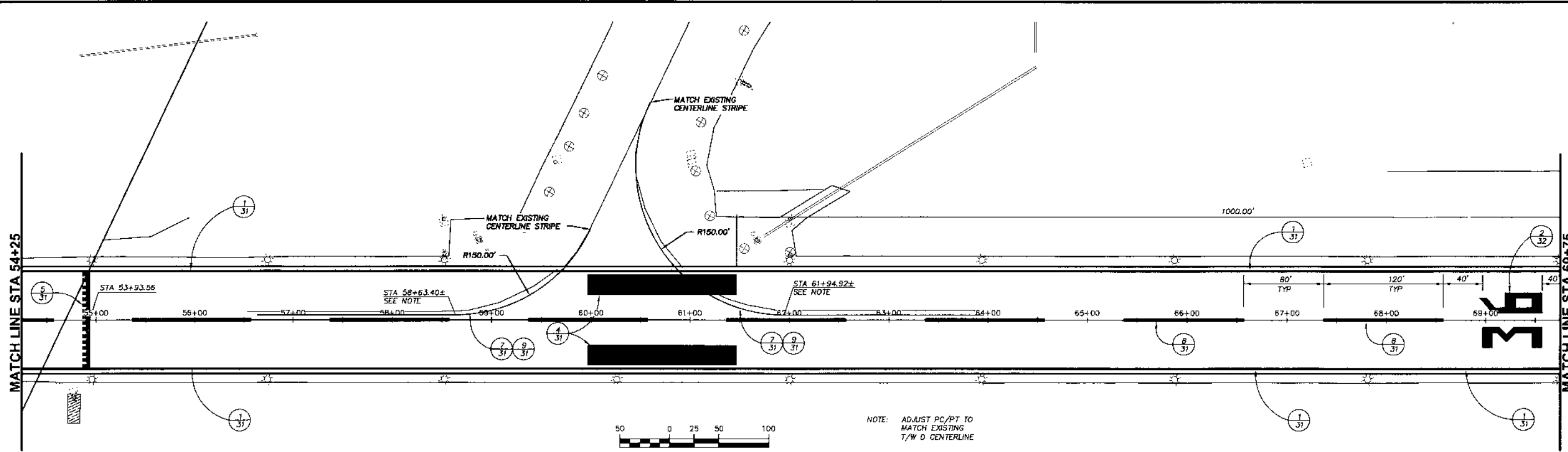
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 KING SALMON, ALASKA  
 AIRPORT IMPROVEMENTS  
 PROJECT NO. 53147  
 AIP No. 3-02-0148-10-2008  
 RUNWAY 12-30 MARKING LAYOUT PLAN  
 STA 89+50 TO STA 102+00

SHEET  
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 OF  
 42



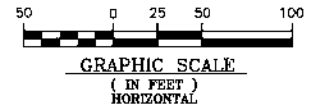


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 Checked By: SDO/BRH  
 Drawn By: AMS



**BASIC BID**  
 SEE SHEET 30 FOR ADD. ALT #2 MARKINGS AND DIMENSIONS

NOTE: ADJUST PC/PT TO  
 MATCH EXISTING  
 T/W D CENTERLINE



AS-BUILT 10/2009 SHEET 29 OF 43

BY	DATE	REVISIONS	BY	DATE	REVISIONS

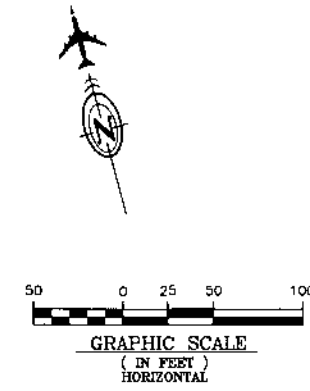
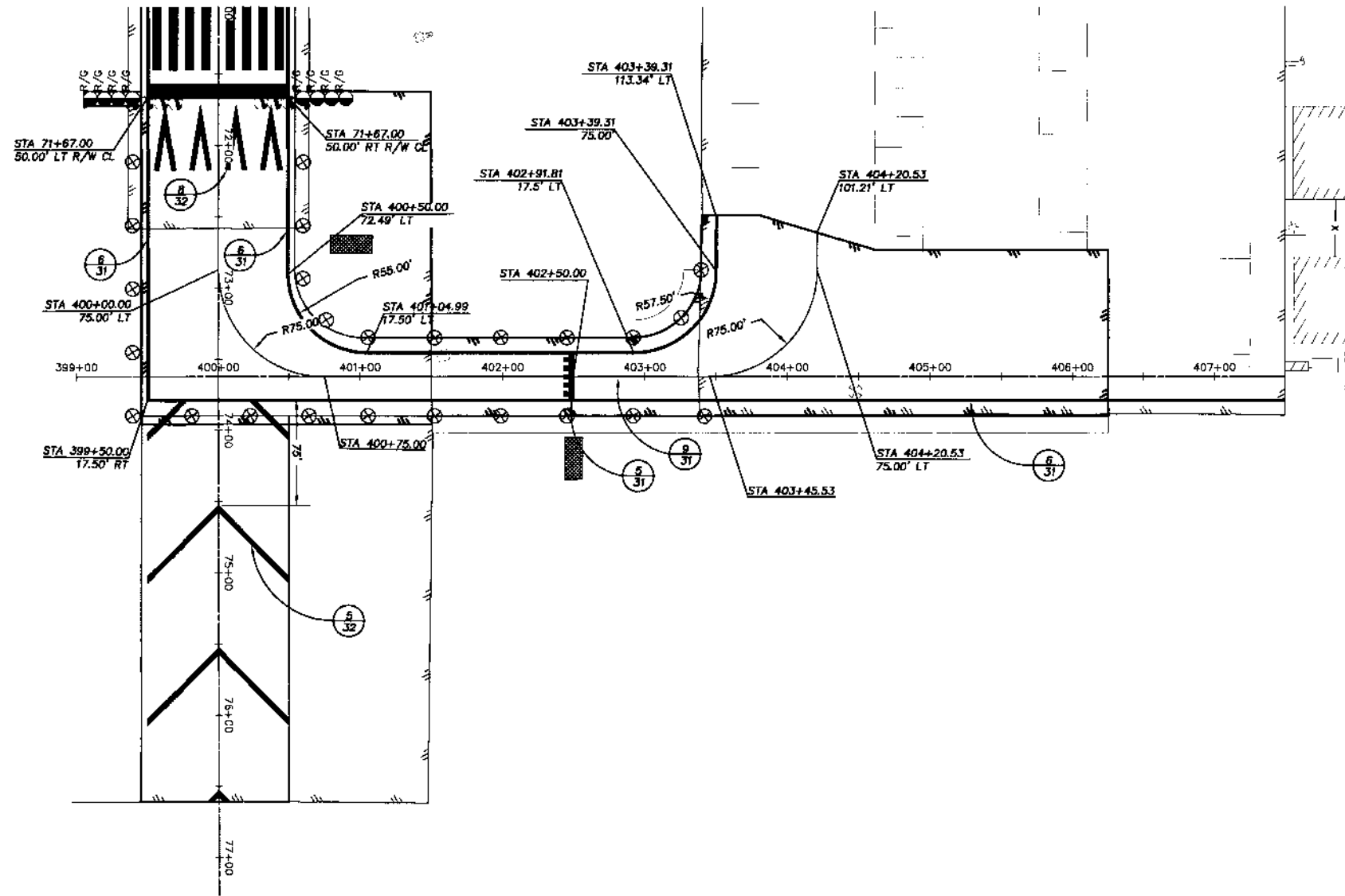
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STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION  
 AND PUBLIC FACILITIES  
 CENTRAL REGION

**KING SALMON AIRPORT**  
 KING SALMON, ALASKA  
 AIRPORT IMPROVEMENTS  
 PROJECT NO. 53147  
 AIP No. 3-02-0148-10-2008  
 RUNWAY 18-36 MARKING LAYOUT PLAN  
 STA 54+25 TO STA 77+00

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 OF  
 42

Date plotted: December 28, 2009  
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 Checked By: [Signature]  
 Drawn By: [Signature]



**NOTE:**  
 ALL STATIONS AND OFFSETS ARE BASED ON THE TAXIWAY CENTERLINE UNLESS OTHERWISE NOTED.

AS-BUILT 10/2009 SHEET 30 OF 43

BY	DATE	REVISIONS

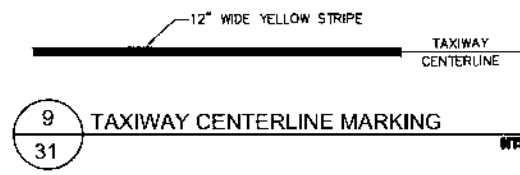
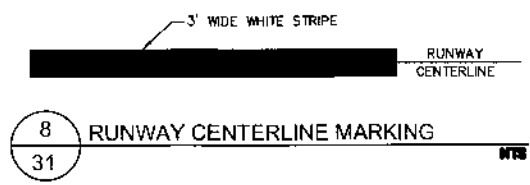
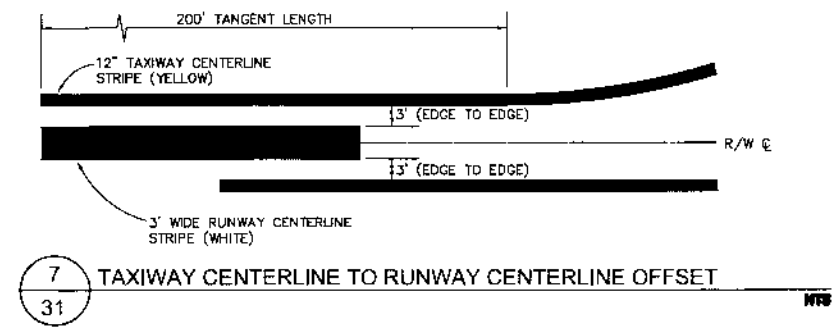
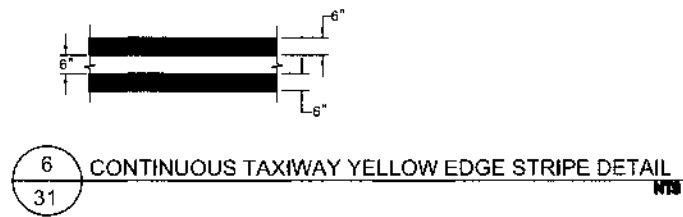
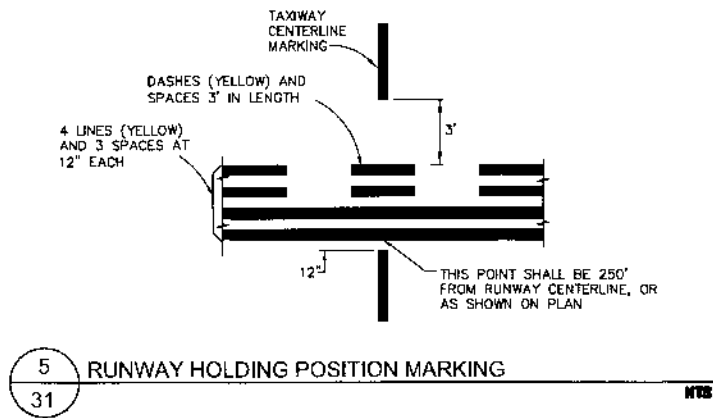
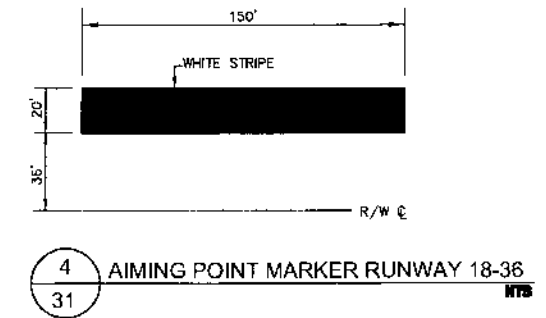
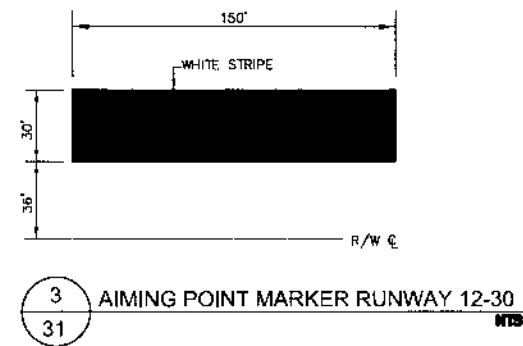
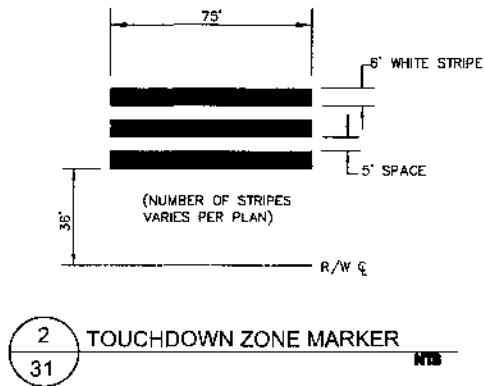
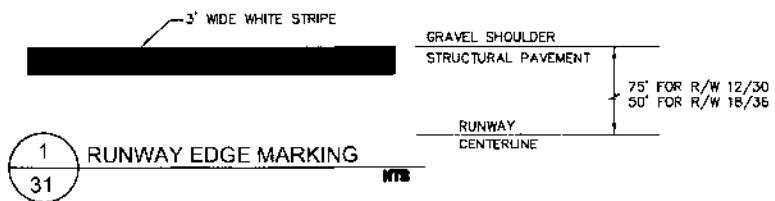
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 STATE OF ALASKA  
 49th  
 DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES  
 CENTRAL REGION  
 BY: [Signature] DATE: 12/28/09 AS-BUILT

STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION  
 AND PUBLIC FACILITIES  
 CENTRAL REGION

**KING SALMON AIRPORT**  
 KING SALMON, ALASKA  
 AIRPORT IMPROVEMENTS  
 PROJECT NO. 53147  
 AIP No. 3-02-0148-10-2008  
 TAXIWAY & APRON MARKING LAYOUT PLAN  
 ADDITIVE ALTERNATE #2

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 42

Date Plotted: December 26, 2009  
 Plot Ratio and Layout: 1/8" = 1'-0"  
 Design By: AMS  
 Checked By: SJS/ZRH  
 Drawn By:  
 Date: 12/23/09  
 Title: AIRPORT IMPROVEMENTS MARKING DETAILS  
 Project No: 53147  
 Revision: 10/2009

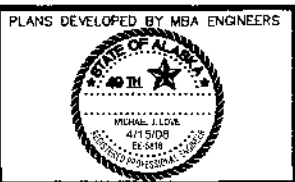


**MARKING NOTES**

- TAXIWAY EDGE DIMENSIONS ARE TO THE OUTSIDE EDGE OF DOUBLE LINES. RUNWAY EDGE DIMENSIONS ARE TO THE OUTSIDE EDGE OF LINE. THESE OUTSIDE LINES COINCIDE WITH THE EDGE OF STRUCTURAL PAVEMENT UNLESS NOTED OTHERWISE.
- REFLECTIVE MEDIA SHALL BE APPLIED TO ALL STRIPES AND MARKINGS AS SPECIFIED IN THE SPECIFICATIONS.

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BY	DATE	REVISIONS	BY	DATE	REVISIONS



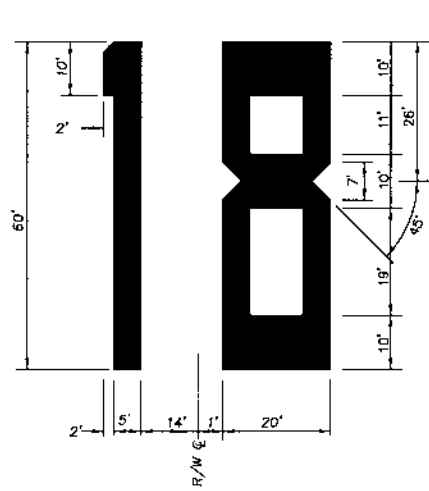
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**STATE OF ALASKA**  
**DEPARTMENT OF TRANSPORTATION**  
**AND PUBLIC FACILITIES**  
**CENTRAL REGION**

**KING SALMON AIRPORT**  
 KING SALMON, ALASKA  
 AIRPORT IMPROVEMENTS  
 PROJECT NO. 53147  
 AIP No. 3-02-0148-10-2008  
**MARKING DETAILS**

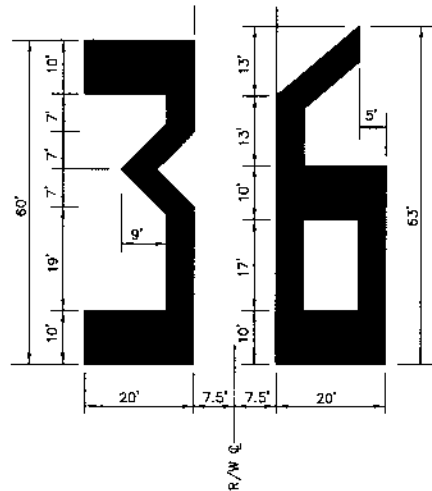
SHEET  
**31**  
 OF  
**42**



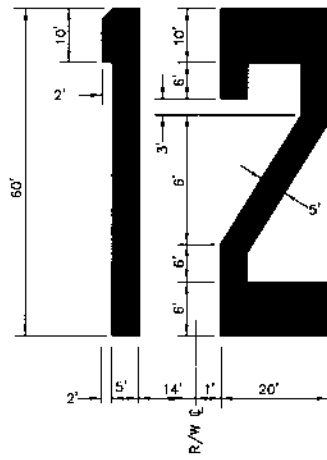
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 Drawn By:



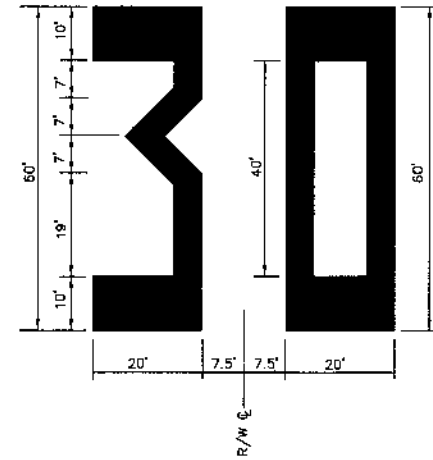
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32 WHITE NTS



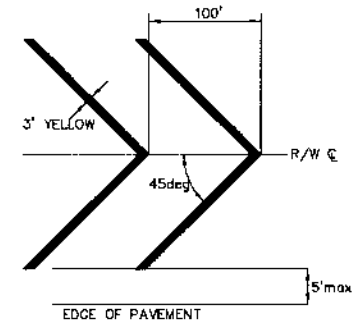
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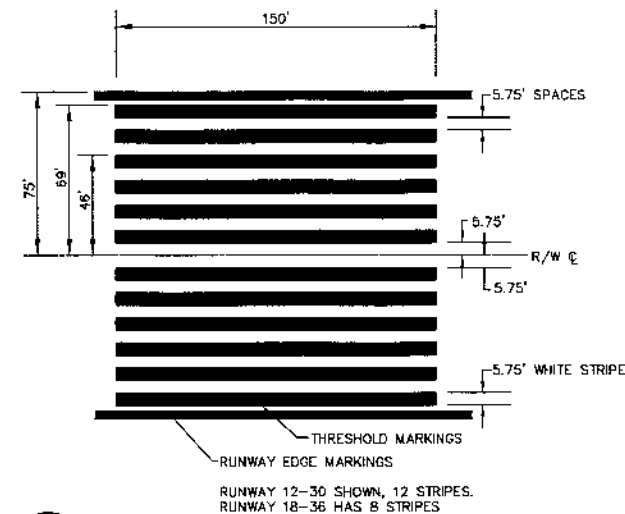
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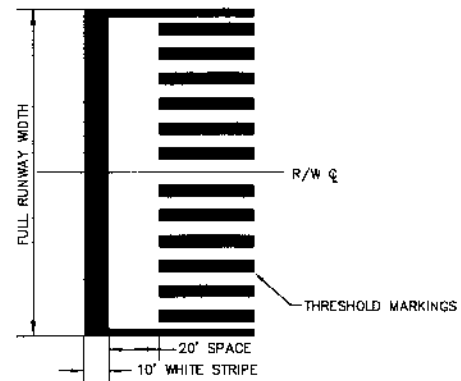
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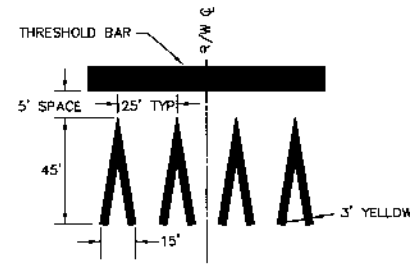
5 BLAST PAD MARKINGS  
32 WHITE NTS



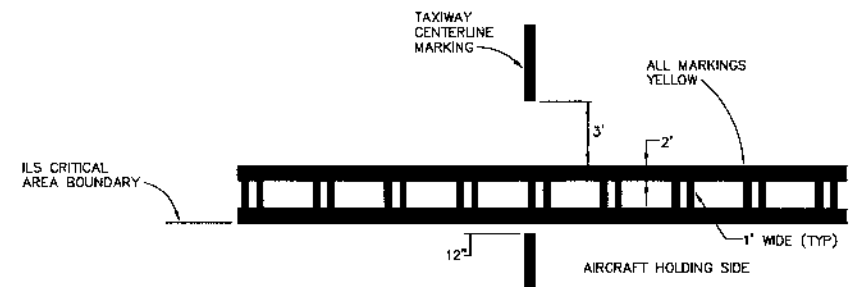
6 THRESHOLD MARKING  
32 WHITE NTS



7 THRESHOLD BAR  
32 WHITE NTS



8 ARROWHEADS  
32 WHITE NTS



9 ILS HOLDING POSITION MARKINGS  
32 WHITE NTS

**MARKING NOTES**

1. TAXIWAY EDGE DIMENSIONS ARE TO THE OUTSIDE EDGE OF DOUBLE LINES. RUNWAY EDGE DIMENSIONS ARE TO THE OUTSIDE EDGE OF LINE. THESE OUTSIDE LINES COINCIDE WITH THE EDGE OF STRUCTURAL PAVEMENT UNLESS NOTED OTHERWISE.
2. REFLECTIVE MEDIA SHALL BE APPLIED TO ALL STRIPES AND MARKINGS AS SPECIFIED IN THE SPECIFICATIONS.

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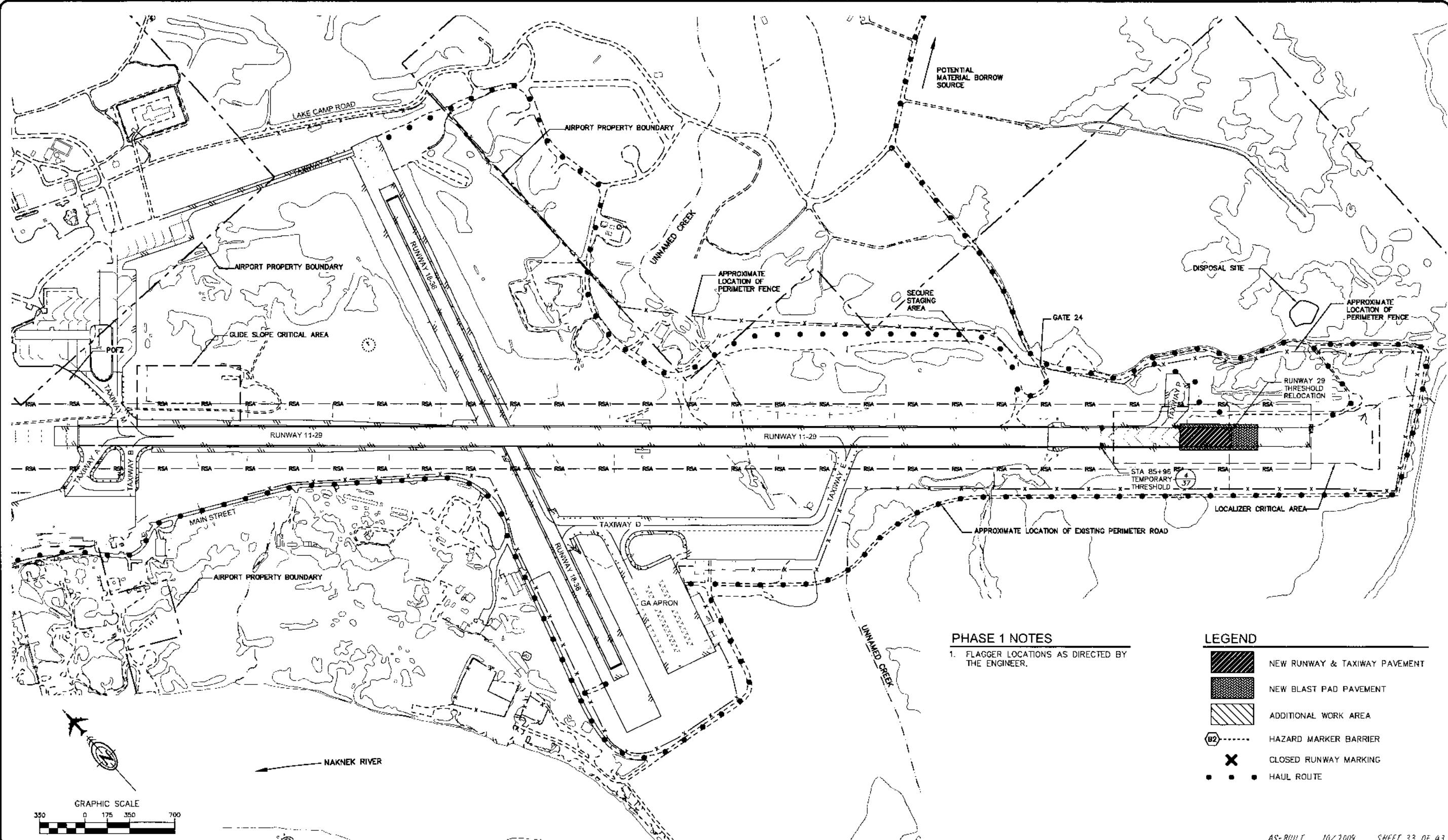
BY	DATE	REVISIONS	BY	DATE	REVISIONS

PLANS DEVELOPED BY MBA ENGINEERS

STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION  
AND PUBLIC FACILITIES  
CENTRAL REGION

**KING SALMON AIRPORT**  
KING SALMON, ALASKA  
AIRPORT IMPROVEMENTS  
PROJECT NO. 53147  
AIP No. 3-02-0148-10-2008  
MARKING DETAILS







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 Checked By: SCS/BJH  
 Designed By: AMS



**PHASE 1 NOTES**

1. FLAGGER LOCATIONS AS DIRECTED BY THE ENGINEER.

**LEGEND**

-  NEW RUNWAY & TAXIWAY PAVEMENT
-  NEW BLAST PAD PAVEMENT
-  ADDITIONAL WORK AREA
-  HAZARD MARKER BARRIER
-  CLOSED RUNWAY MARKING
-  HAUL ROUTE

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BY	DATE	REVISIONS	BY	DATE	REVISIONS

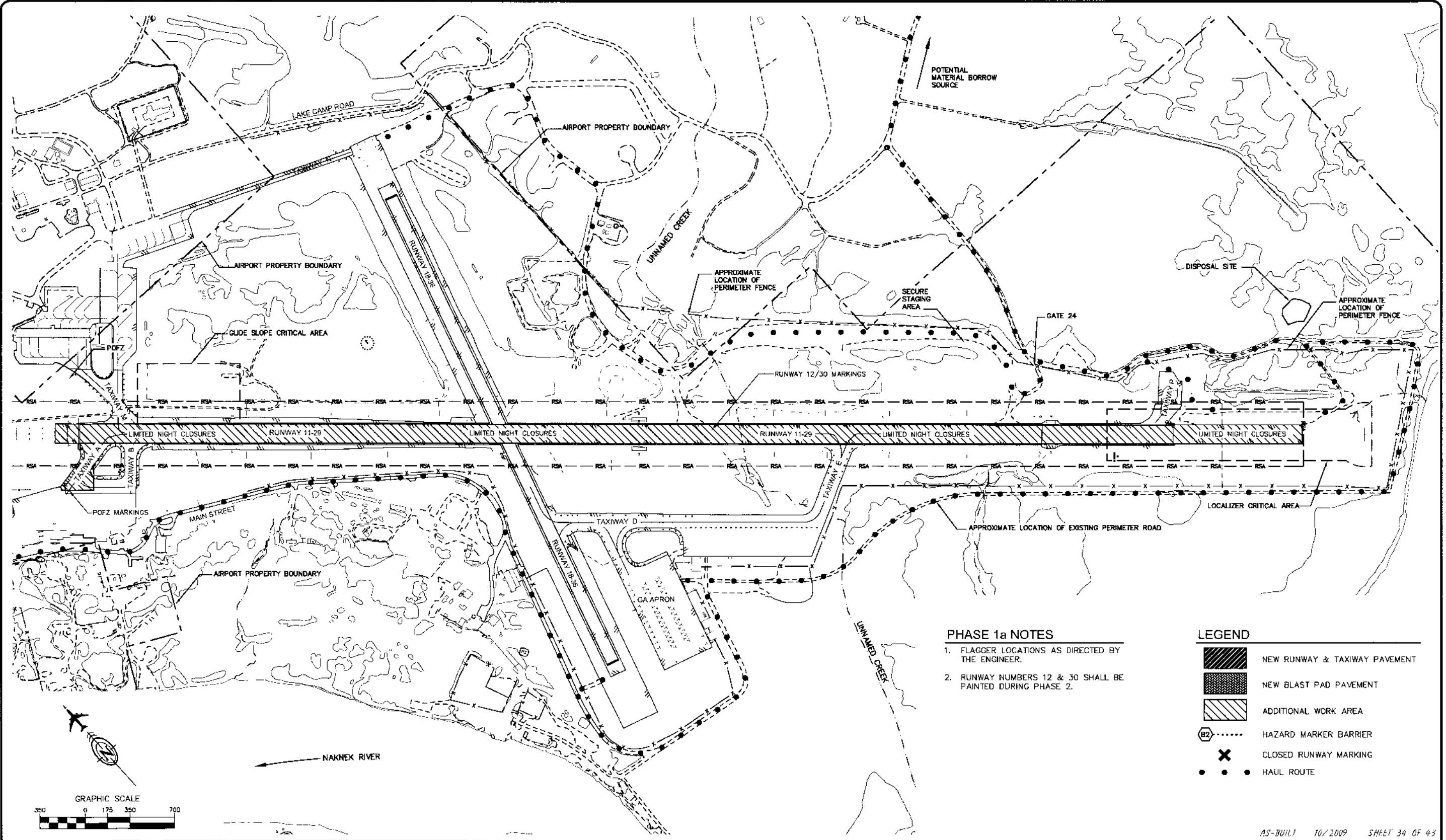


STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION  
 AND PUBLIC FACILITIES  
 CENTRAL REGION

**KING SALMON AIRPORT**  
 KING SALMON, ALASKA  
 AIRPORT IMPROVEMENTS  
 PROJECT NO. 53147  
 AIP No. 3-02-0148-10-2008  
 SAFETY PLAN  
 PHASE 1

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 OF  
**42**







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 Checked By: SCD/ERR  
 AMS  
 SCRIPT FILE SAFETY: DOW FILE No. 233-11  
 2008-4-18 LARONBAR



**PHASE 1a NOTES**

1. FLAGGER LOCATIONS AS DIRECTED BY THE ENGINEER.
2. RUNWAY NUMBERS 12 & 30 SHALL BE PAINTED DURING PHASE 2.

**LEGEND**

-  NEW RUNWAY & TAXIWAY PAVEMENT
-  NEW BLAST PAD PAVEMENT
-  ADDITIONAL WORK AREA
-  HAZARD MARKER BARRIER
-  CLOSED RUNWAY MARKING
-  HAUL ROUTE

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BY	DATE	REVISIONS	BY	DATE	REVISIONS

PLAN DEVELOPED BY DONL ENGINEERS  
  
 STATE OF ALASKA  
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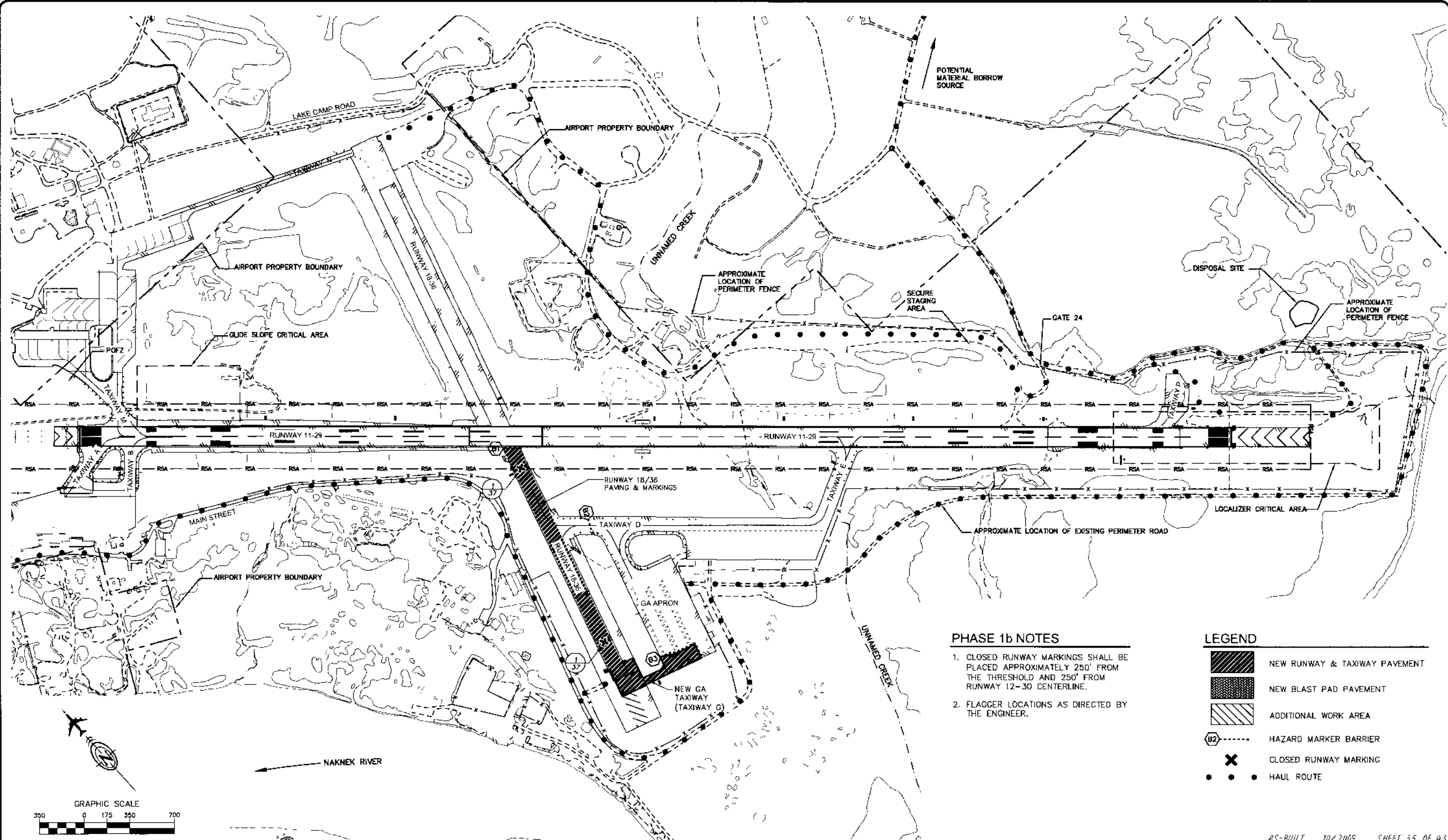
**STATE OF ALASKA**  
**DEPARTMENT OF TRANSPORTATION**  
**AND PUBLIC FACILITIES**  
**CENTRAL REGION**

**KING SALMON AIRPORT**  
 KING SALMON, ALASKA  
 AIRPORT IMPROVEMENTS  
 PROJECT NO. 53147  
 AIP No. 3-02-0148-10-2008  
 SAFETY PLAN  
 PHASE 1a

SHEET  
**34**  
 OF  
**42**









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 Drawn By:

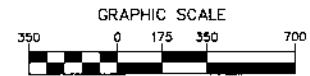


**PHASE 1b NOTES**

1. CLOSED RUNWAY MARKINGS SHALL BE PLACED APPROXIMATELY 250' FROM THE THRESHOLD AND 250' FROM RUNWAY 12-30 CENTERLINE.
2. FLAGGER LOCATIONS AS DIRECTED BY THE ENGINEER.

**LEGEND**

-  NEW RUNWAY & TAXIWAY PAVEMENT
-  NEW BLAST PAD PAVEMENT
-  ADDITIONAL WORK AREA
-  HAZARD MARKER BARRIER
-  CLOSED RUNWAY MARKING
-  HAUL ROUTE



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BY	DATE	REVISIONS	BY	DATE	REVISIONS

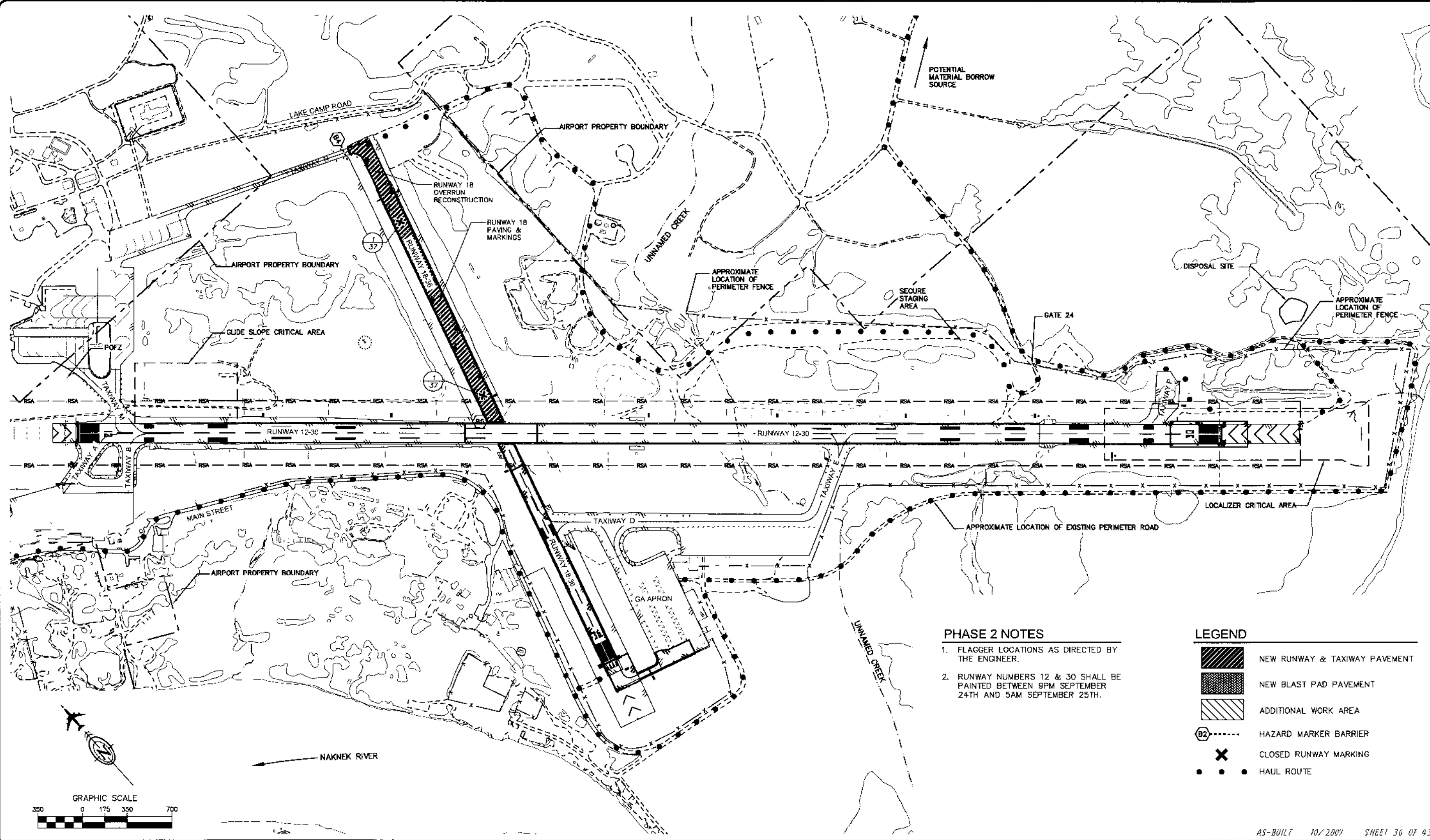


**STATE OF ALASKA**  
**DEPARTMENT OF TRANSPORTATION**  
**AND PUBLIC FACILITIES**  
**CENTRAL REGION**

**KING SALMON AIRPORT**  
 KING SALMON, ALASKA  
 AIRPORT IMPROVEMENTS  
 PROJECT NO. 53147  
 AIP No. 3-02-0148-10-2008  
 SAFETY PLAN  
 PHASE 1b

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 OF  
**42**

Date Plotted: December 28, 2009  
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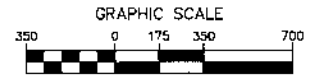


**PHASE 2 NOTES**

1. FLAGGER LOCATIONS AS DIRECTED BY THE ENGINEER.
2. RUNWAY NUMBERS 12 & 30 SHALL BE PAINTED BETWEEN 9PM SEPTEMBER 24TH AND 5AM SEPTEMBER 25TH.

**LEGEND**

- NEW RUNWAY & TAXIWAY PAVEMENT
- NEW BLAST PAD PAVEMENT
- ADDITIONAL WORK AREA
- HAZARD MARKER BARRIER
- CLOSED RUNWAY MARKING
- HAUL ROUTE



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BY	DATE	REVISIONS	BY	DATE	REVISIONS



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

**KING SALMON AIRPORT**  
 KING SALMON, ALASKA  
 AIRPORT IMPROVEMENTS  
 PROJECT NO. 53147  
 AIP No. 3-02-0148-10-2008  
 SAFETY PLAN  
 PHASE 2

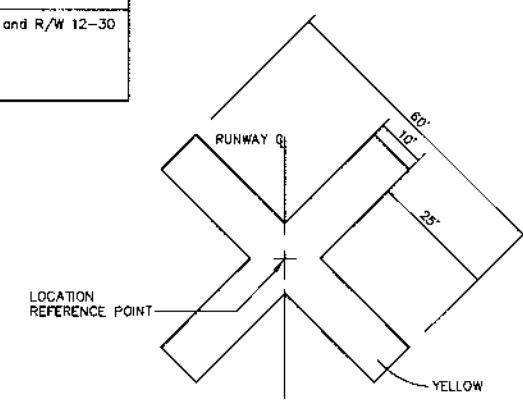
SHEET  
**36**  
 OF  
**42**

**RUNWAY, TAXIWAY, & APRON CONSTRUCTION PHASING SCHEDULE**

Construction Phase	Work to be Completed	Completion Date	Runway Closures	Taxiway Closures	Hazard Marker Barrier Location(s)
1	Relocate R/W 29 threshold. Complete all R/W 29 electrical work at threshold.	August 15, 2008	Close 600 feet of R/W 29. Provide temporary threshold and closed runway markings.	None, access to T/W P shall be maintained	
1a	Remove R/W 11-29 markings, except the R/W numbers. Paint new R/W markings, except the R/W numbers. Paint R/W 12 POFZ.	August 15, 2008	Nightly closures of portions of R/W 12-30 for new R/W markings	None	
1b	Resurface & groove R/W 18-36 south of R/W 12-30. Paint new R/W markings. If Add Alt #2 is awarded, construct new T/W and apron tie in. Paint new T/W markings.	August 15, 2008	R/W 36 south of R/W 12-30	T/W D	Intersection R/W 36 and R/W 12-30, T/W D. If Add Alt #2 is awarded - south end of GA Apron
2	Resurface & groove R/W 18-36 north of R/W 12-30. Paint new R/W 18-36 markings and R/W numbers 12 & 30. If Add Alt #1 is awarded, reconstruct R/W 18 Overrun. Paint new T/W markings.	September 25, 2008 for 12 & 30 R/W numbers. September 30, 2008 for all other work.	R/W 18 north of R/W 12-30	T/W N	Intersection R/W 18 and R/W 12-30 & T/W N

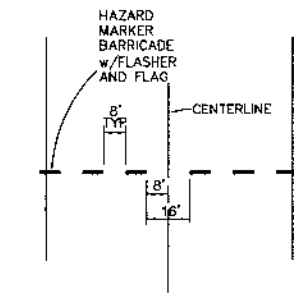
**NOTES**

- PHASE 1 WORK CANNOT BEGIN UNTIL JULY 15, 2008. NO EARTHWORK ACTIVITIES SHALL BEGIN IN PHASE 1 WORK AREA UNTIL THE TEMPORARY THRESHOLD AND TEMPORARY MARKINGS ARE INSTALLED AND ACCEPTED BY THE ENGINEER. PHASE 1a WORK SHALL BE COMPLETED AFTER PHASE 1. WORK CANNOT BEGIN ON PHASE 2 UNTIL PHASE 1b IS COMPLETE.
- RUNWAY CLOSURES CAN BE PROPOSED AND PUT INTO AFFECT ONLY WITH THE APPROVAL OF THE AIRPORT MANAGER. NIGHT CLOSURES OF RUNWAY 11-29 ARE ANTICIPATED FOR MARKING REMOVAL AND INSTALLATION OF NEW MARKINGS.
- WORK OUTSIDE THE LIMITS OF THE RUNWAY SAFETY AREA AND TAXIWAY SAFETY AREA MAY BE PERFORMED AT ANY TIME. THIS WORK MAY BEGIN ONCE A NOTICE TO PROCEED HAS BEEN ISSUED. WORK AFFECTING OPERATIONS, AS SHOWN IN THE SAFETY PLAN, SHALL NOT BEGIN UNTIL AUTHORIZED BY THE ENGINEER.
- CONSTRUCTION WORK MAY BE PERFORMED WITHOUT CLOSURES AS LONG AS EQUIPMENT IS NOT PRESENT WITHIN THE ACTIVE SAFETY AREA DURING AIRCRAFT OPERATIONS.
- MAINTAIN AIRCRAFT ACCESS TO THE APRONS DURING ACTIVE RUNWAY USE FOR ALL STAGES OF WORK. GUIDE AIRCRAFT THROUGH TAXIWAY WORK AREAS AS REQUIRED.
- PROVIDE WEEKLY NOTIFICATIONS OF ACTIVE AIRPORT AREAS AND CONSTRUCTION ACTIVITIES TO THE CONTACTS LISTED IN THE SAFETY PLAN AND/OR SPECIFICATIONS.
- PROVIDE TEMPORARY LIGHTING FOR EACH PHASE OF CONSTRUCTION ALLOWING AIRCRAFT OPERATIONS. DURING ACTIVE OPERATIONS, BOTH EDGES AND ENDS OF THE ACTIVE RUNWAY SHALL HAVE OPERATIONAL LIGHTING. EXISTING LIGHTS MAY BE USED AS APPLICABLE.
- EXISTING RUNWAY AND THRESHOLD LIGHTING SHALL BE MADE INACTIVE IN AREAS OUTSIDE THE ACTIVE RUNWAY.
- PAPI AND APPROACH LIGHTING ON RUNWAY 11 SHALL REMAIN OPERATIONAL DURING CONSTRUCTION. THE LOCALIZER WILL BE SHUT DOWN BY FAA DURING CONSTRUCTION.
- NOTAMS NEED TO BE ISSUED INDICATING TEMPORARY THRESHOLD, RUNWAY CLOSURES AND CHANGES IN OPERATIONS. COORDINATE CONSTRUCTION ACTIVITIES WITH THE AIRPORT MANAGER WHO WILL ISSUE NOTAMS.
- SPECIAL REQUIREMENTS FOR PROVIDING AND MAINTAINING TEMPORARY LIGHTING ARE INCLUDED IN THE ELECTRICAL PLAN SHEETS AND THE SAFETY PLAN NARRATIVE.
- PAINT FOR TEMPORARY MARKINGS SHALL BE APPLIED AT 25 PERCENT OF THE TOTAL APPLICATION RATE. TEMPORARY MARKINGS ARE SUBSIDIARY TO P-620. PRIOR TO PLACING TEMPORARY MARKINGS EXISTING THRESHOLD MARKINGS/BAR AND AIMING MARKINGS SHALL BE COMPLETELY REMOVED.
- THE CONTRACTOR SHALL MAINTAIN CLOSED RUNWAY MARKINGS, AS SHOWN ON THE PLANS, DURING CONSTRUCTION PERIODS.
- STORAGE OF EQUIPMENT OR MATERIALS ON THE RUNWAYS, TAXIWAYS, APRONS, OR SAFETY AREAS WILL NOT BE ALLOWED.
- EQUIPMENT WILL NOT BE ALLOWED OUTSIDE THE FOOTPRINT OF THE PROJECT, EXCEPT ON EXISTING ROADS.
- SEE APPENDIX D FOR THE SAFETY PLAN NARRATIVE AND SECTION 80 OF THE SPECIFICATIONS FOR LIMITATIONS AND OPERATIONAL SAFETY CONCERNS.

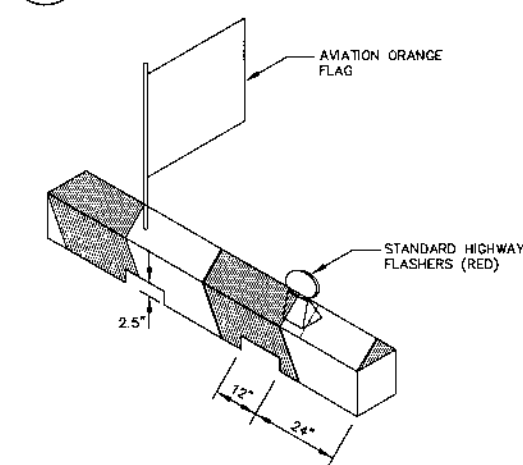


- MARKINGS SHALL BE SECURED IN PLACE WITH 3" MAXIMUM HEIGHT SANDBAGS.
- MARKINGS SHALL BE SUPPLIED BY THE CONTRACTOR, SUBSIDIARY TO ITEM G-100a.
- MARKINGS SHALL BE PLACED AT THE PLANNED LOCATIONS WHEN FULL CLOSURES ARE IN EFFECT.

1  
37  
CLOSED RUNWAY MARKING  
NTS

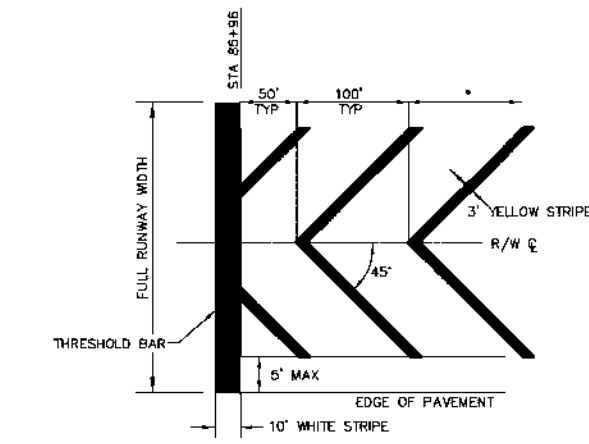


3  
37  
HAZARD MARKER BARRIER  
NTS



- BARRIERS SHALL BE IN PLACE TO LIMIT ACCESS TO CLOSED PORTIONS OF THE AIRFIELD WHENEVER RUNWAY IS OPEN.
- REFER TO SECTION P-670, HAZARDOUS AREA BARRIER.

2  
37  
HAZARD MARKER BARRIER  
NTS



4  
37  
TEMPORARY THRESHOLD & CLOSED R/W MARKINGS  
NTS

Date Plotted: December 26, 2008  
 Plot Ratio and Layout: 1/8" = 1'-0"  
 File: \\projects\wing\salmon\53147\as-built\airfield\pdr-adv\sig.dwg  
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 2008-12-26 10:38:31  
 Checked By: SGO/BRH  
 Designed By: AMB

AS-BUILT 10/2009 SHEET 37 OF 43

BY	DATE	REVISIONS	BY	DATE	REVISIONS



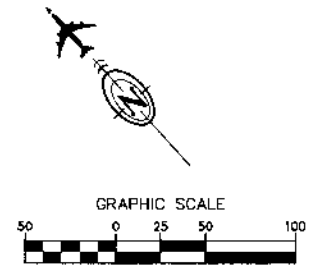
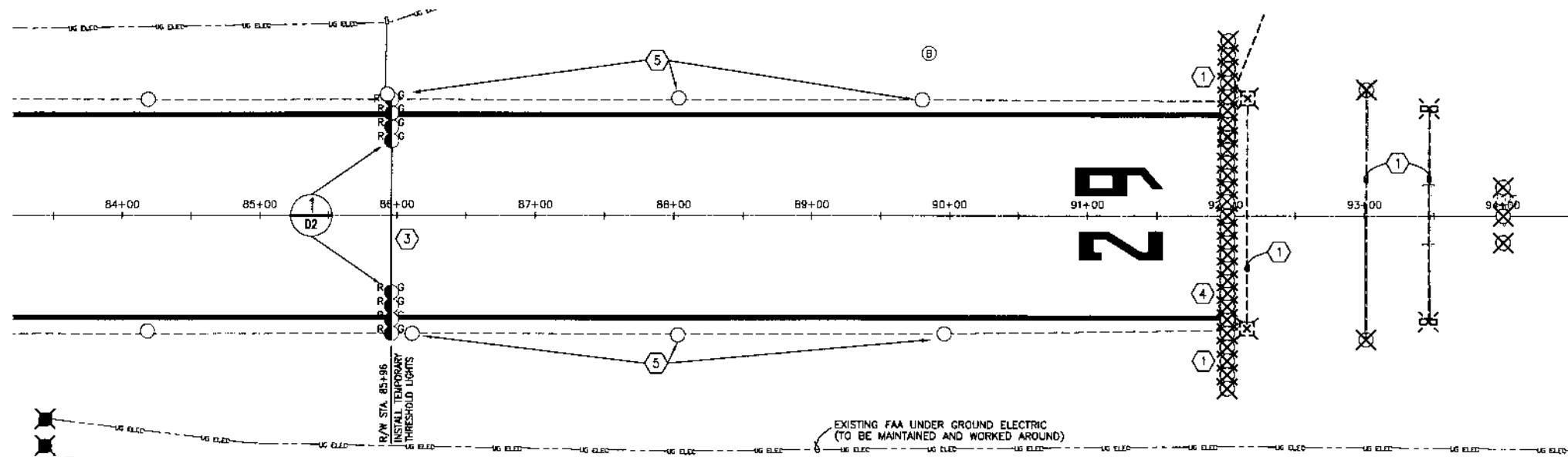
STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION  
 AND PUBLIC FACILITIES  
 CENTRAL REGION

**KING SALMON AIRPORT**  
 KING SALMON, ALASKA  
 AIRPORT IMPROVEMENTS  
 PROJECT NO. 53147  
 AIP No. 3-02-0148-10-2008  
 SAFETY PLAN  
 PHASING SCHEDULE, NOTES, & DETAILS

SHEET  
 37  
 OF  
 42

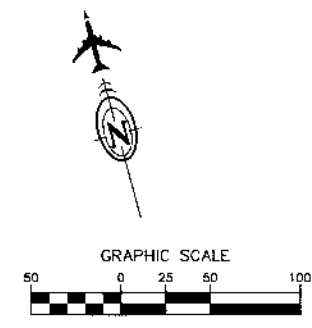
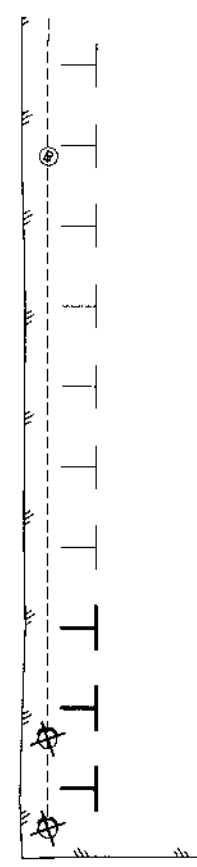
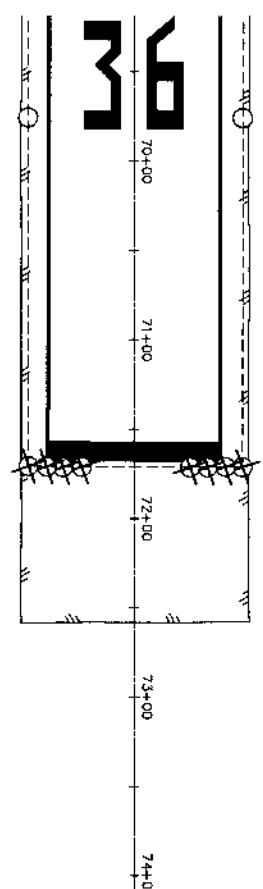


December 26, 2008  
 Drawn By: AMS  
 Checked By: SSO/BRH  
 Design By: AMS  
 Script File: C:\Users\Simon\Documents\53147\_AirportImprovements\AS-BUILT\J1.dwg  
 DWG File No: 233-11  
 Project No: 3-02-0148-10-2008  
 Plot Ratio and Layout: 1:1  
 File: 17.04.08



**1 RUNWAY 29 LIGHTING DEMOLITION PLAN**  
 D1 SCALE: 1:50

- LEGEND:**
- ⊗ EXISTING LIGHT, LIGHT BASE, HANDHOLE OR JUNCTION BOX TO BE REMOVED
  - EXISTING R/W EDGE OR THRESHOLD LIGHT
  - ⊕ TEMPORARY L-862E THRESHOLD LIGHT
  - ⊗ MANHOLE - APPROXIMATELY 5'x5' TO BE REMOVED
  - UNDERGROUND ELECTRIC
  - PAPI LIGHT HOUSING ASSEMBLY



**2 RUNWAY 36 DEMOLITION PLAN ADDITIVE ALTERNATE #2**  
 D1 SCALE: 1:50

- NOTES:**
- 1 REMOVE EXISTING THRESHOLD LIGHTS. LIGHT FIXTURES ARE TO BE SALVAGED AND OFFERED TO THE STATE FIELD MAINTENANCE PERSONNEL. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF TRANSFORMERS, WIRE, CONDUITS AND ASSOCIATED DUCT BANK SYSTEMS AS SHOWN ON THE PLANS. THIS WORK SHALL INCLUDE THE REMOVAL AND DISPOSAL OF PREVIOUSLY ABANDONED STRUCTURES AND DUCTS. FINISH GRADE OUTSIDE THE LIMITS OF EXCAVATION SHALL BE RESTORED. THIS WORK SHALL BE SUBSIDIARY TO L-100bn.
  - 2 REMOVE PAPI'S. CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFE STORAGE OF PAPI COMPONENTS. CONTRACTOR SHALL REMOVE AND DISPOSE OF SCREW PILE PADS, HANDHOLES, JUNCTION BOXES, GROUND RODS AND WIRE. CONDUIT MAY BE ABANDONED IN PLACE. FINISH GRADE SHALL BE RESTORED WHERE STRUCTURES HAVE BEEN REMOVED. THIS WORK SHALL BE SUBSIDIARY TO L-132c AND NO SEPARATE PAYMENT WILL BE MADE.
  - 3 CONSTRUCT TEMPORARY THRESHOLD PER DETAIL 1, SHEET 02. INSTALL AND MAINTAIN JUMPERS AND THRESHOLD FOR THE DURATION OF THE PROJECT AT THE LOCATIONS SHOWN ON THE PLANS. EXTEND CAUTION ZONE WEST OF TEMPORARY THRESHOLD UTILIZING FIXTURE LENSES BEHIND THE THRESHOLD. UPON REMOVAL AND DISPOSAL OF TEMPORARY THRESHOLD THE CONTRACTOR SHALL RESTORE CIRCUITS AND CAUTION ZONE LIGHTING. THIS WORK SHALL BE SUBSIDIARY TO L-100f.
  - 4 IN ADDITION TO THE 8 THRESHOLD LIGHTS THERE ARE NO LESS THAN 57 ADDITIONAL DECOMMISSIONED CONCRETE ENCASED LIGHT BASES. NOT ALL SHOWN FOR CLARITY.
  - 5 EDGE LIGHTS BEYOND TEMPORARY THRESHOLD SHALL BE INOPERABLE WHEN TEMPORARY THRESHOLD IS IN SERVICE.

AS-BUILT 10/2009 SHEET 38 OF 43

BY	DATE	REVISIONS	BY	DATE	REVISIONS



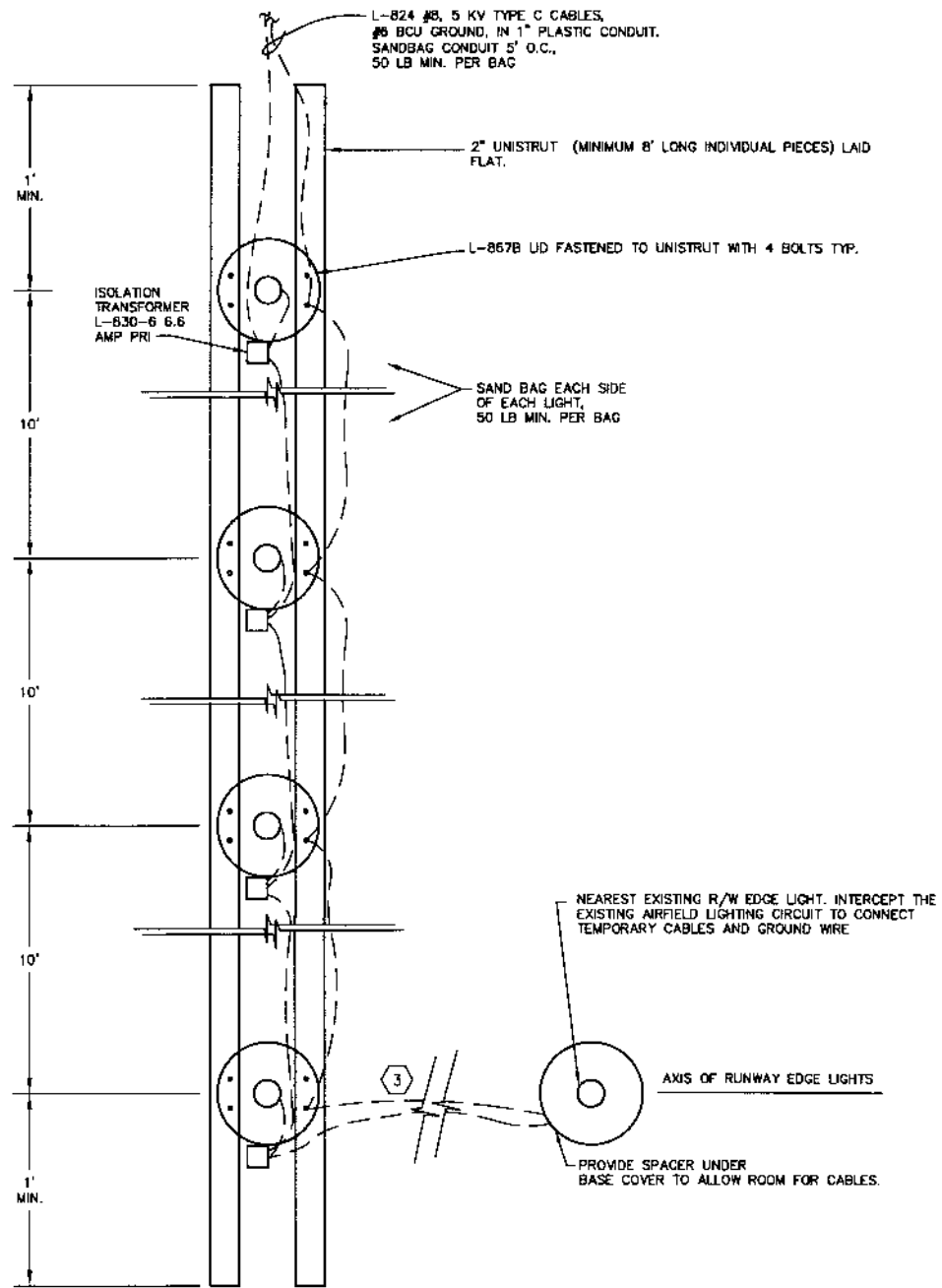
PLANS DEVELOPED BY MBA ENGINEERS

STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION  
 AND PUBLIC FACILITIES  
 CENTRAL REGION

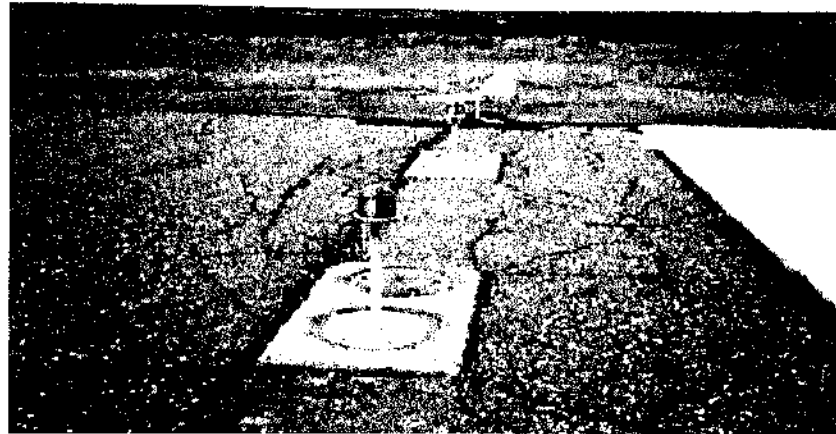
**KING SALMON AIRPORT**  
 KING SALMON, ALASKA  
 AIRPORT IMPROVEMENTS  
 PROJECT NO. 53147  
 AIP No. 3-02-0148-10-2008  
 RUNWAY LIGHTING DEMOLITION PLANS

SHEET  
 D1  
 OF  
 42

December 26, 2009  
 Done Plotted, Plot Ratio and Layout:  
 December 26, 2009  
 DWG FILE No. 233-11  
 2008-10-31 17:04:38  
 Design By: AMS  
 Checked By: SJD/BRB  
 Drawn By:



1 D2 TEMPORARY THRESHOLD LIGHT BAR



2 D2 R/W 29 THRESHOLD LIGHTS



3 D2 DECOMMISSIONED R/W 29 THRESHOLD LIGHTS

NOTES

1. PROVIDE 2 TEMPORARY THRESHOLD LIGHT BARS IN ACCORDANCE WITH THE PROJECT SAFETY PLAN AND AS DIRECTED BY THE ENGINEER.
2. NOT USED.
3. CONNECT TEMPORARY THRESHOLD LIGHT BARS TO EXISTING EDGE LIGHTS (CIRCUIT R1).
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: L-862E (200W)
6. CONSTRUCTION, INSTALLATION AND MAINTENANCE OF THE TEMPORARY THRESHOLD LIGHT BARS AND JUMPERS IS SUBSIDIARY TO PAY ITEM L-100X.
7. TEMPORARY THRESHOLD SHALL BECOME THE PROPERTY OF THE STATE UPON COMPLETION OF THE PROJECT.
8. JUMPERS SHALL BE RUN IN 1" PLASTIC CONDUIT WITH A SEPARATE #6 BARE COPPER GROUND, SAND BAG CONDUIT 5' O.C., 50 LB MINIMUM PER SAND BAG.
9. TEMPORARY JUMPERS SHALL BE SALVAGED OR DISPOSED OF AT THE DIRECTION OF THE ENGINEER.
10. CONTRACTOR MAY USE AT HIS DISCRETION THE EXISTING R/W 29 THRESHOLD LIGHTS AND TRANSFORMERS.

BY	DATE	REVISIONS	BY	DATE	REVISIONS

PLANS DEVELOPED BY MBA ENGINEERS

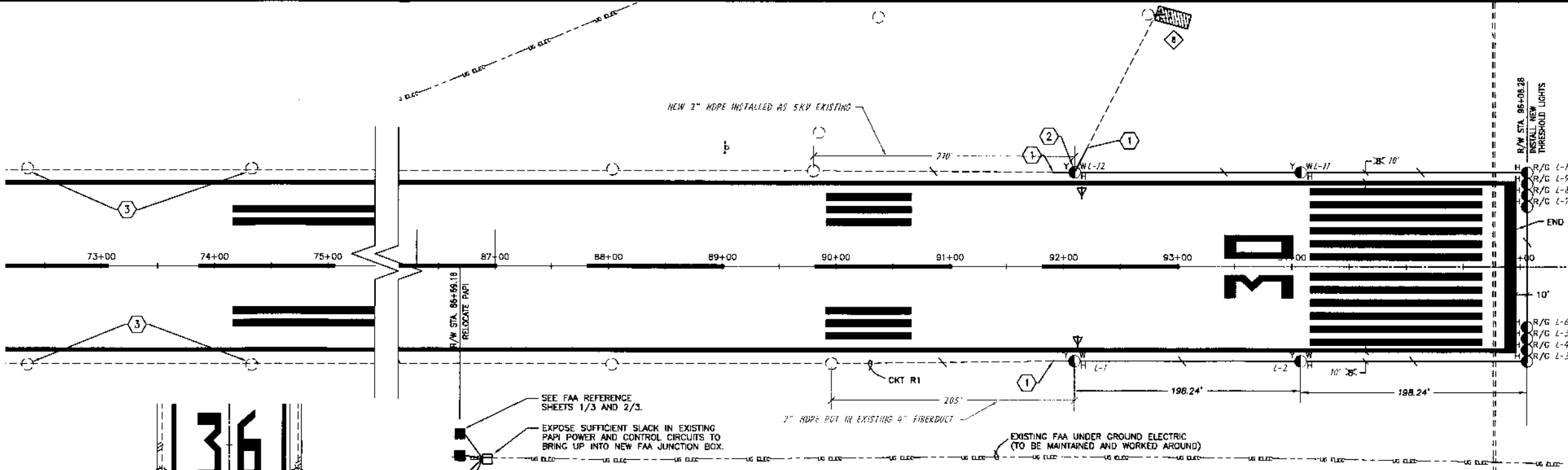
STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION  
 AND PUBLIC FACILITIES  
 CENTRAL REGION

AS-BUILT 10/2009 SHEET 39 OF 43

**KING SALMON AIRPORT**  
 KING SALMON, ALASKA  
 AIRPORT IMPROVEMENTS  
 PROJECT NO. 53147  
 AIP No. 3-02-0148-10-2008  
 TEMPORARY THRESHOLD DETAIL AND PHOTOS

SHEET  
**D2**  
 OF  
 42

Date Plotted: December 28, 2009  
 Plot Ratio and Layout: 1:50  
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 Drawn By:



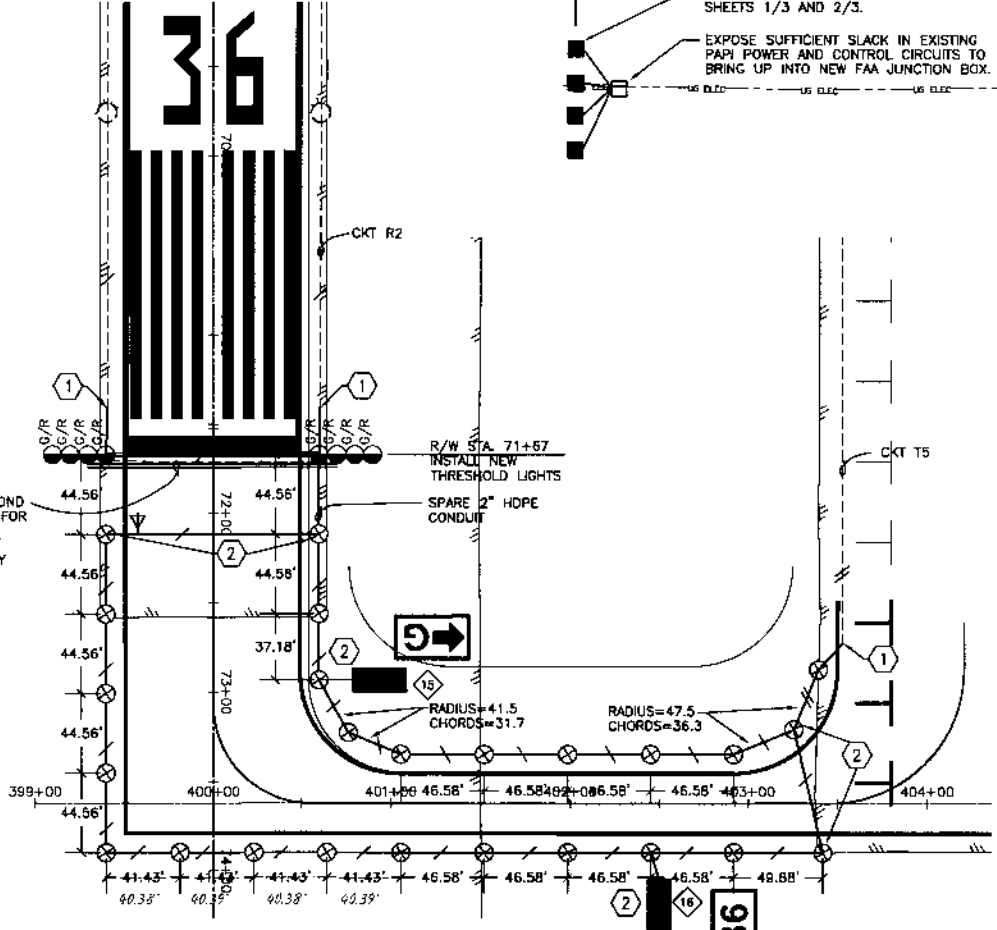
**1 RUNWAY 30 LIGHTING PLAN**  
E1 SCALE: 1:50

NUMBER	SYMBOLS	LOCATION	LIGHT SCHEDULE		
			LIGHT COLOR	WATTAGE	F.A.A. NUMBER
4	H Y/W	R/W 12-30 EDGE LIGHT	YELLOW/WHITE	120	L862
8	H R/G	R/W 30 THRESHOLD	RED/GREEN	200	L862E
8	M R/G	R/W 36 THRESHOLD	RED/GREEN	45	L861E
25	⊗	TAXIWAY EDGE LIGHTS	BLUE	12	L861T

**LEGEND** SHEET E1, E2, E3

- R/W - RUNWAY
- T/W - TAXIWAY
- PAPI - PRECISION APPROACH PATH INDICATOR
- NEW 2" HDPE CONDUIT, HASH MARKS INDICATE NUMBER OF #8 AWG. SKV AIRPORT CABLES TYPE "C" PLUS ONE #6 BARE COPPER GROUND CONDUCTOR.
- NEW 2" RIGID STEEL CONDUIT
- H R/G NEW RUNWAY THRESHOLD LIGHT - HIGH INTENSITY
- M R/G NEW RUNWAY THRESHOLD LIGHT - MEDIUM INTENSITY
- H Y/W NEW RUNWAY EDGE LIGHT - HIGH INTENSITY
- ⊗ NEW TAXIWAY EDGE LIGHT
- EXISTING R/W OR T/W LIGHT
- FAA J-BOX
- PAPI LIGHT HOUSING ASSEMBLY
- ▽ NEW 3/4" X 10' GROUND ROD
- ⊗ EXISTING SIGN BASE TO BE REMOVED
- NEW SIGN
- EXISTING UNDERGROUND ELECTRIC
- ◇ SIGN NUMBER - SEE SCHEDULE
- ▨ RELOCATED SIGN
- ▨ EXISTING SIGN - NEW PANELS

- NOTES:**
- 1 CONNECT NEW TO EXISTING CONDUITS UTILIZING ELECTROFUSION COUPLINGS, CONNECT NEW CONDUCTORS BACK TO THE LAST LIGHT BASE FOR THE CONTINUATION OF CIRCUITS.
  - 2 PROVIDE LIGHT BASE WITH ADDITIONAL THREADED HUBS AS REQUIRED.
  - 3 CHANGE CAUTION ZONE LIGHT LENS (YELLOW/WHITE) TO WHITE/WHITE. THIS WORK SHALL BE SUBSIDIARY TO L-1000 AND NO SEPARATE PAYMENT WILL BE MADE.
  - 4 ADDITIVE ALTERNATE #2



**2 RUNWAY 36 LIGHTING PLAN ADDITIVE ALTERNATE #2**  
E1 SCALE: 1:50

BY	DATE	REVISIONS	BY	DATE	REVISIONS

PLANS DEVELOPED BY MBA ENGINEERS

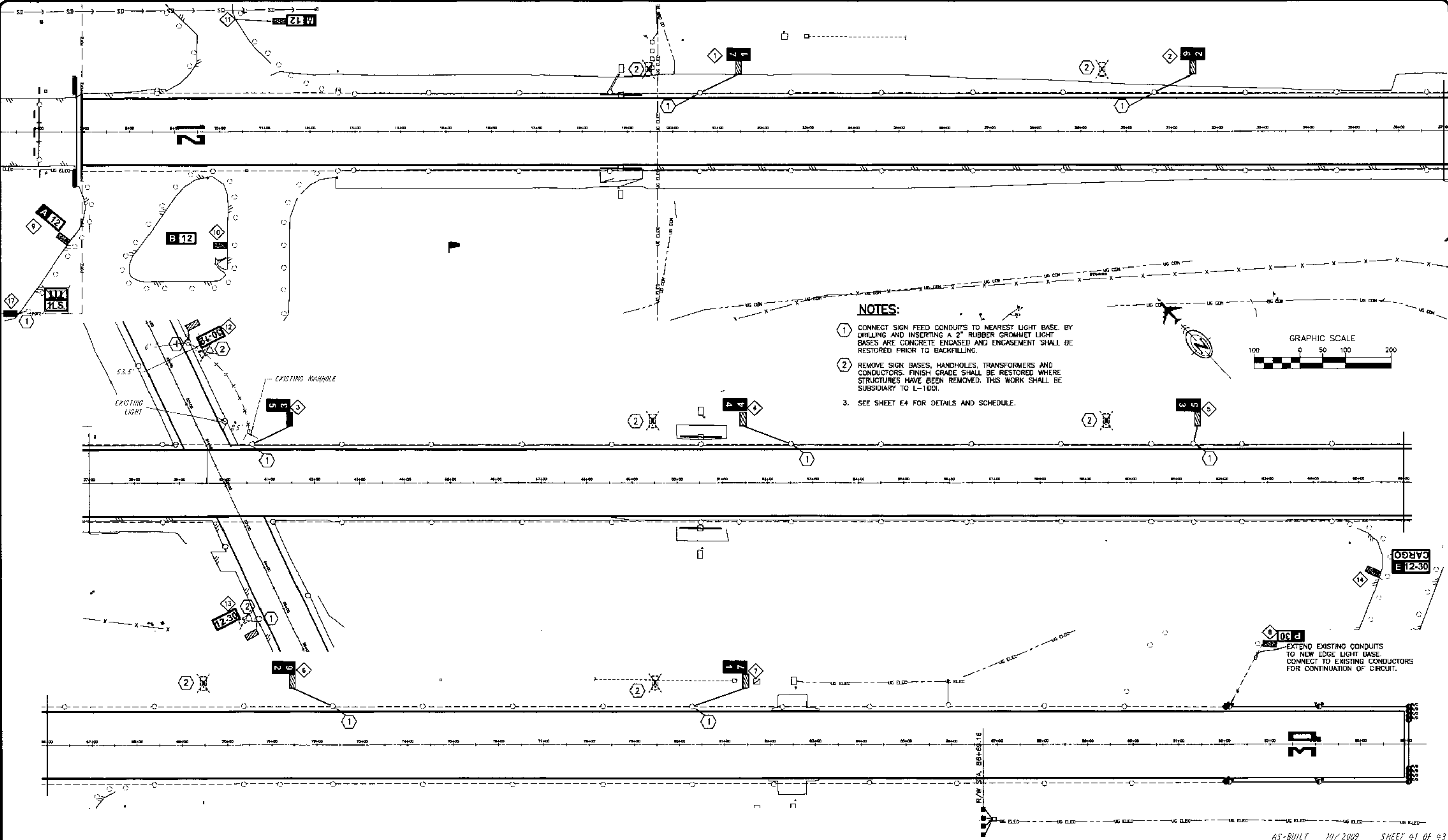
AS-BUILT 10/2/09

STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION  
AND PUBLIC FACILITIES  
CENTRAL REGION

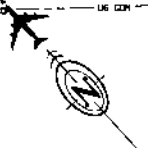
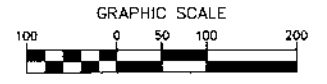
KING SALMON AIRPORT  
KING SALMON, ALASKA  
AIRPORT IMPROVEMENTS  
PROJECT NO. 53147  
AIP No. 3-02-0148-10-2008  
RUNWAY LIGHTING PLANS



Date Plotted: December 26, 2009  
 Plotted By: [Signature]  
 Checked By: [Signature]  
 Drawn By: [Signature]  
 Design By: [Signature]  
 Project File: [Path]  
 Sheet File: [Path]  
 Plot File: [Path]



- NOTES:**
1. CONNECT SIGN FEED CONDUITS TO NEAREST LIGHT BASE BY DRILLING AND INSERTING A 2" RUBBER GROMMET LIGHT BASES ARE CONCRETE ENCASED AND ENCASEMENT SHALL BE RESTORED PRIOR TO BACKFILLING.
  2. REMOVE SIGN BASES, HANDHOLES, TRANSFORMERS AND CONDUCTORS. FINISH GRADE SHALL BE RESTORED WHERE STRUCTURES HAVE BEEN REMOVED. THIS WORK SHALL BE SUBSIDIARY TO L-1001.
  3. SEE SHEET E4 FOR DETAILS AND SCHEDULE.



EXTEND EXISTING CONDUITS TO NEW EDGE LIGHT BASE. CONNECT TO EXISTING CONDUCTORS FOR CONTINUATION OF CIRCUIT.

AS-BUILT 10/2009 SHEET 41 OF 43

BY	DATE	REVISIONS

PLANS DEVELOPED BY MBA ENGINEERS

STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION  
 AND PUBLIC FACILITIES  
 CENTRAL REGION

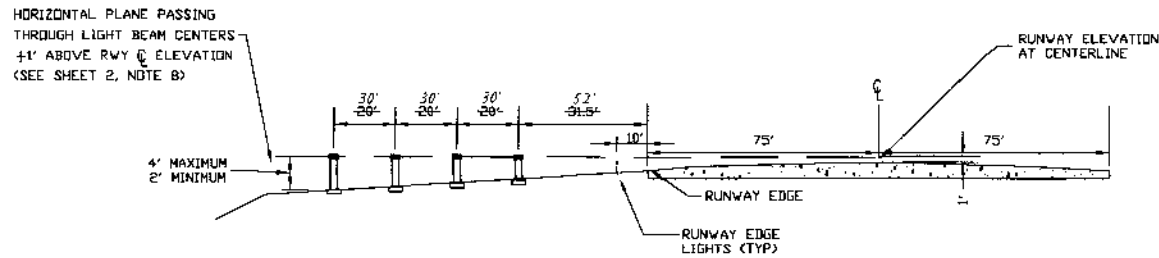
**KING SALMON AIRPORT**  
 KING SALMON, ALASKA  
 AIRPORT IMPROVEMENTS  
 PROJECT NO. 53147  
 AIP No. 3-02-014B-10-2008  
 RUNWAY 12-30 SIGN PLAN

SHEET  
**E2**  
 OF  
 42

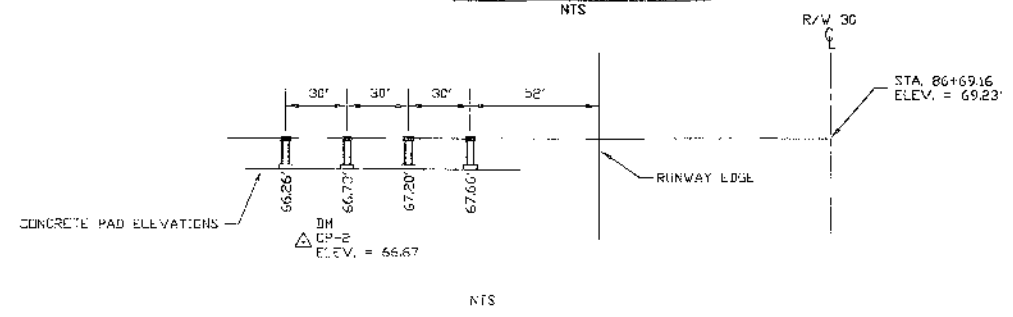




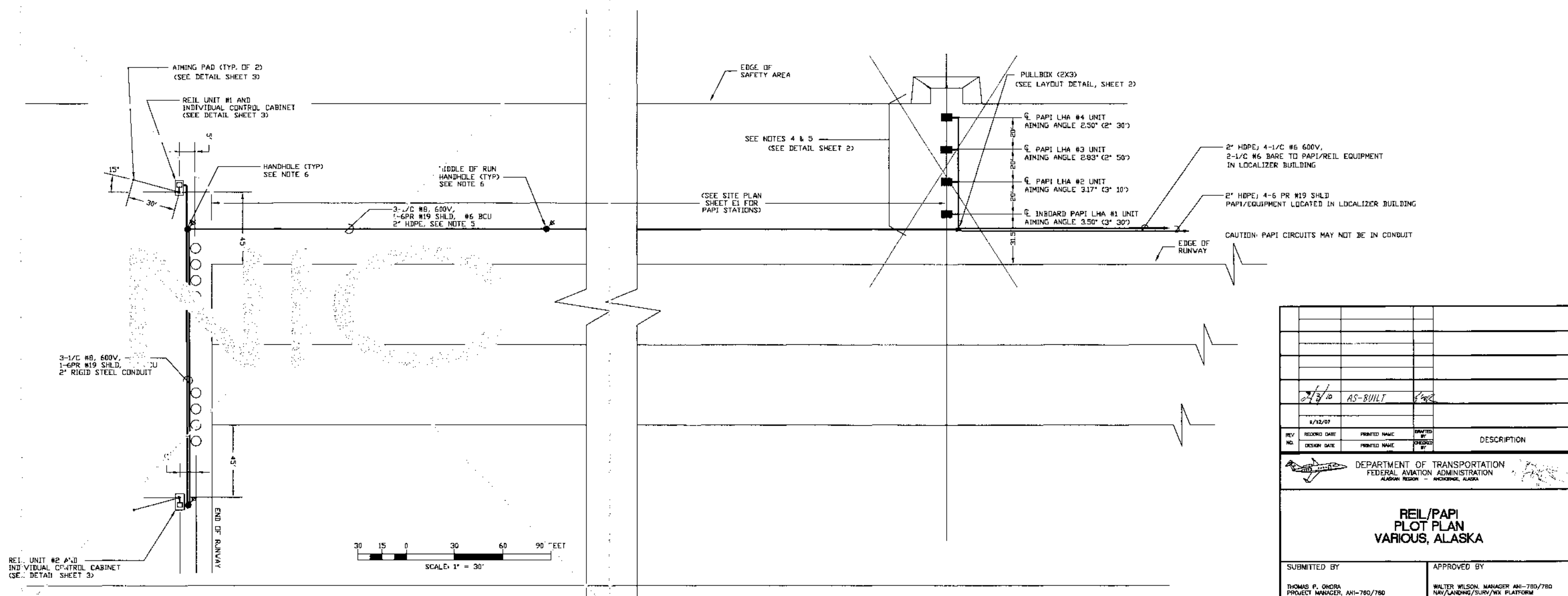




**ELEVATION - TYPICAL**  
NTS



- NOTES:**
- COORDINATE ALL ACTIVITIES WITH THE AIRPORT MANAGER AND LOCATE EXISTING CABLES PRIOR TO TRENCHING. BACKFILL AND COMPACT IN 6" LIFTS, TOP COARSE AND OVERALL COMPACTION SHALL BE EQUAL TO SURROUNDING SAFETY AREA.
  - CABLE SHALL BE INSTALLED IN ACCORDANCE WITH APPLICABLE CABLE INSTALLATION STANDARDS.
  - INSTALL CABLE MARKERS AT 200' SPACING ON RUNS OVER 200' IN LENGTH AND AT LOCATION OF CHANGE OF DIRECTION ON CABLE RUN AND AT SPLICE AS REQUIRED BY SPECIFICATION FAA-C-1391.
  - ALL UNITS IN A BAR SHALL BE LOCATED ON A LINE PERPENDICULAR TO THE RUNWAY CENTERLINE. THE FRONT FACES OF EACH LIGHT UNIT MUST BE WITHIN ±6" OF THIS LINE.
  - ALL UNITS SHALL BE AIMED OUTWARD INTO THE APPROACH ZONE ON A LINE PARALLEL TO THE RUNWAY CENTERLINE WITH A TOLERANCE OF ± 1/2 DEGREE.
  - HDPE CONDUIT AND L-867 HANDHOLES SHALL BE INSTALLED IN ACCORDANCE WITH BASE CONTRACT DRAWINGS AND SPECIFICATIONS.

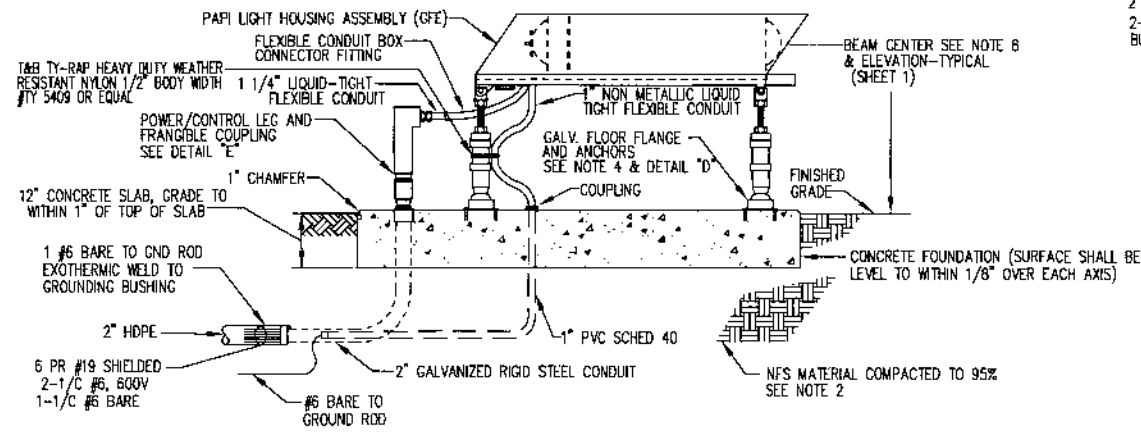


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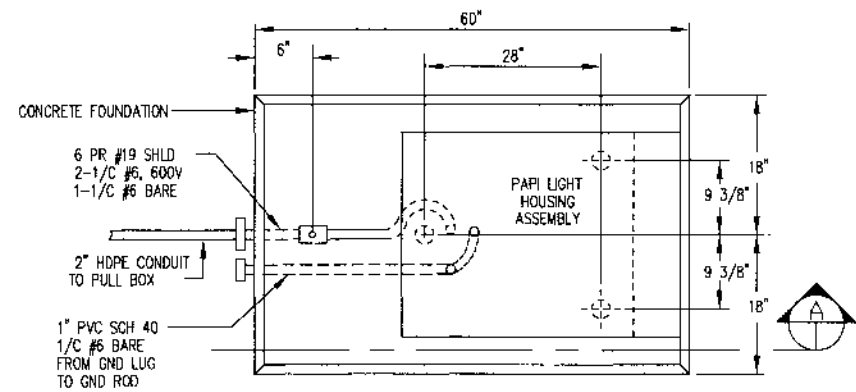
DEPARTMENT OF TRANSPORTATION  
FEDERAL AVIATION ADMINISTRATION  
ANCHORAGE REGION - ANCHORAGE, ALASKA

**REIL/PAPI  
PLOT PLAN  
VARIOUS, ALASKA**

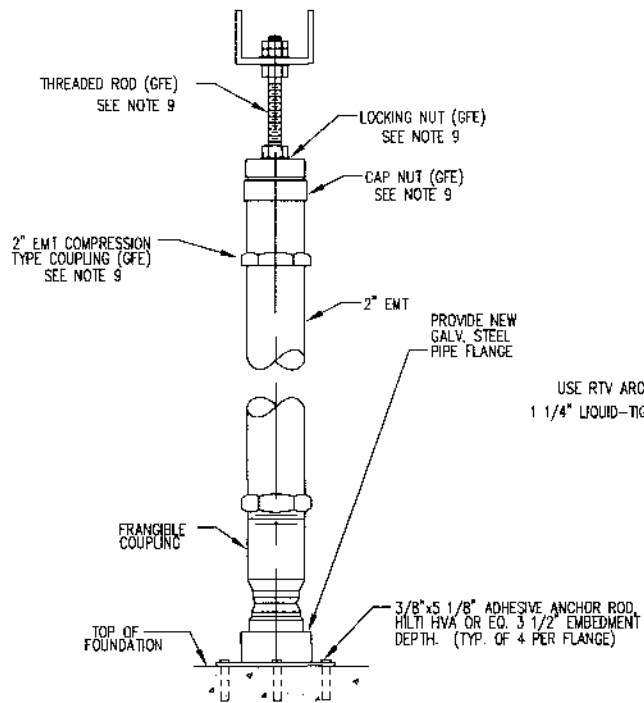
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DESIGNED BY AIRWAY FACILITIES SERVICE	DATE
DRAWN BY <b>ANI-700</b>	DRAWING NUMBER
REVIEWED BY NAS IMPLEMENTATION CENTER	STD. DES. NA-SMD



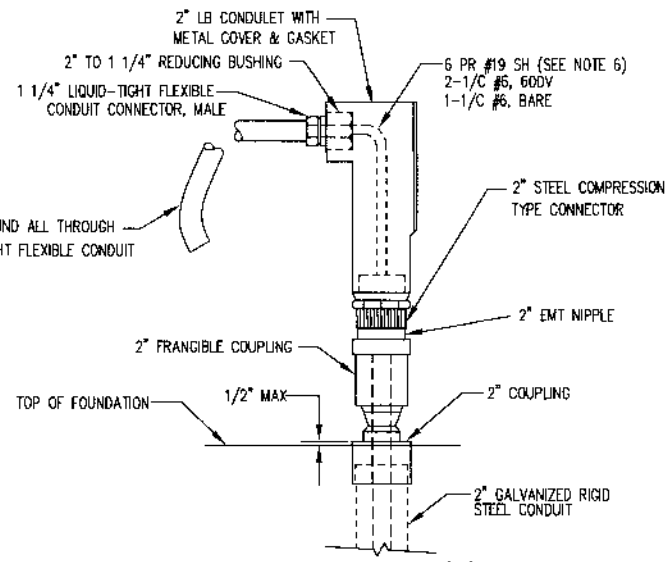
SECTION A



LIGHT HOUSING ASSEMBLY  
PLAN VIEW

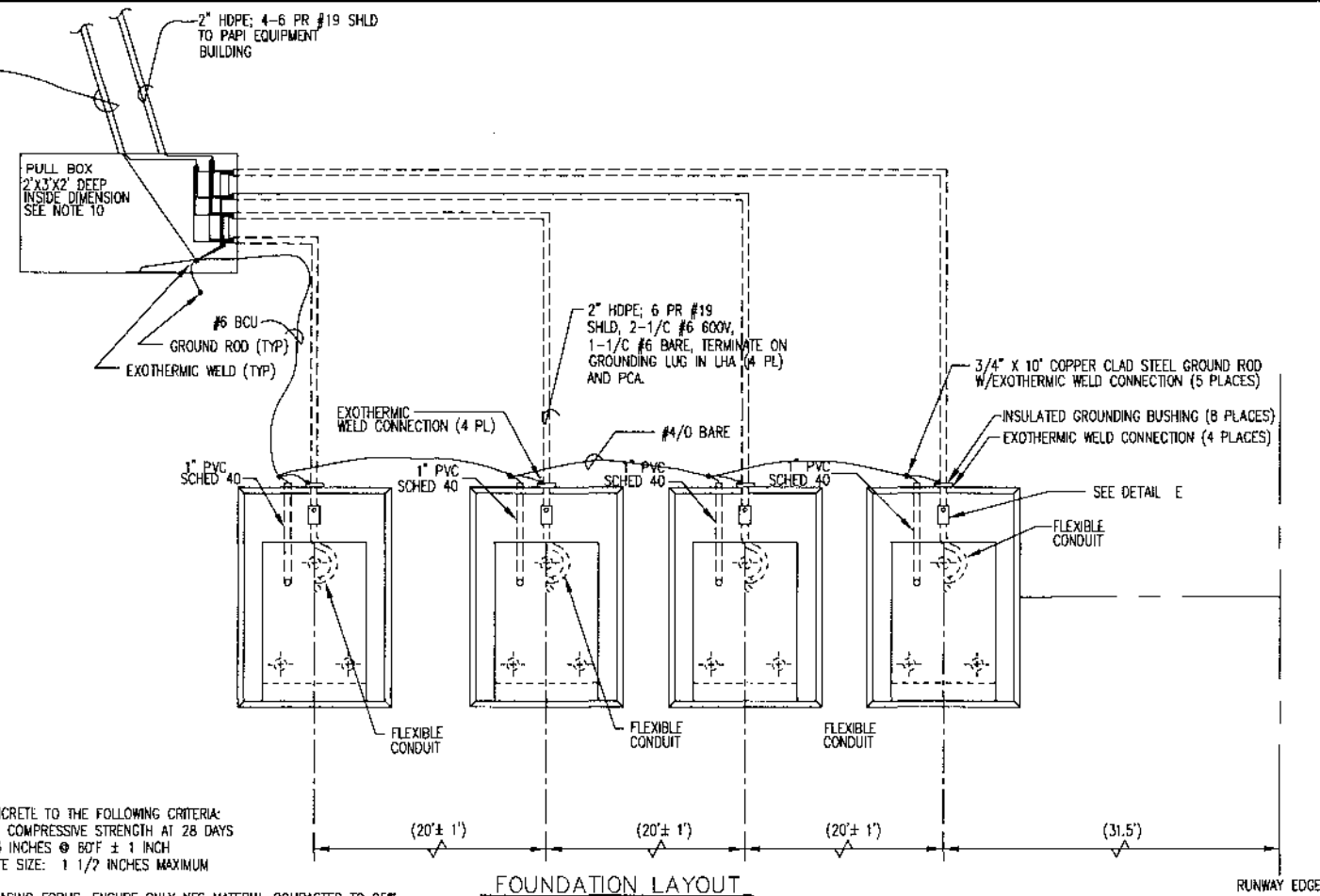


DETAIL 'D'  
STRUCTURAL LEG DETAIL



DETAIL 'E'  
POWER AND CONTROL WIRE LEG

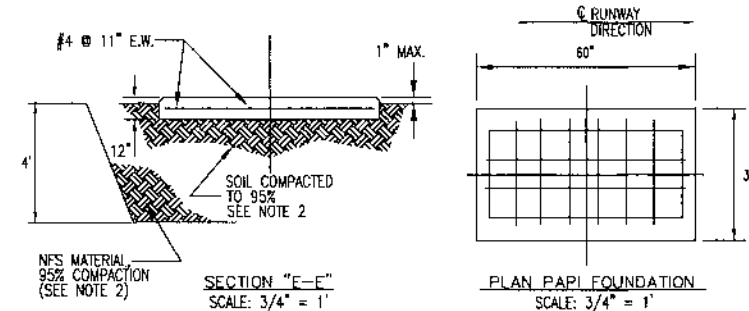
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FOUNDATION LAYOUT  
NOT TO SCALE

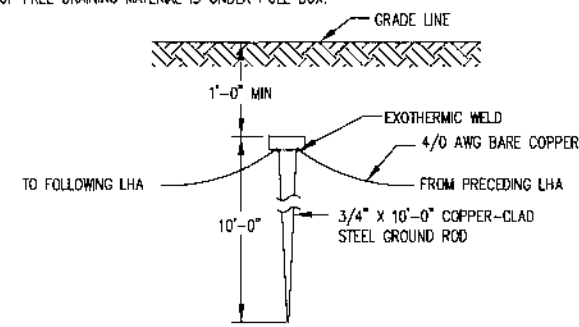
NOTES:

- PROVIDE CONCRETE TO THE FOLLOWING CRITERIA:
  - 3000 PSI COMPRESSIVE STRENGTH AT 28 DAYS
  - SLUMP: 3 INCHES @ 80°F ± 1 INCH
  - AGGREGATE SIZE: 1 1/2 INCHES MAXIMUM
- PRIOR TO PLACING FORMS, ENSURE ONLY NFS MATERIAL COMPACTED TO 95% IS BELOW ALL FOUNDATIONS. IF NFS MATERIAL IS NOT PRESENT, EXCAVATE AS REQUIRED TO PROVIDE A MINIMUM OF 4 FEET OF NFS MATERIAL BENEATH PAPI FOUNDATIONS. PLACE FILL IN 8\"/>
- REINFORCING STEEL SHALL BE ASTM A615, GRADE 60, DEFORMED STEEL BARS.
- DRILL HOLES AND INSTALL ADHESIVE ANCHOR RODS WHEN PAPI UNITS HAVE BEEN ACCURATELY LOCATED.
- COORDINATE PLACEMENT OF CONDUIT STUB-UPS WITH ELECTRICAL CONTRACTOR & SITE ENGINEER.
- CLEAN AND FOLD BACK UNUSED SHIELDED PAIRS AND TAPE IN THE LHA.
- ALL MOUNTINGS TO BE 2 INCH FRANGIBLE COUPLINGS.
- 2\"/>
- TO PREVENT SEIZURE, ADD ANTI-SEIZE COMPOUND, NSM# 8030-00-251-3980 MANUFACTURED BY JET-LUBE, INC., HOUSTON, TX OR EQUAL.
- LAYOUT IS GENERAL, REFERENCE SHEET 1 FOR ACTUAL PULL BOX LOCATION. ENSURE 18\"/>



SECTION 'E-E'  
SCALE: 3/4\"/>

PLAN PAPI FOUNDATION  
SCALE: 3/4\"/>



DETAIL 'A'  
TYPICAL GROUND ROD INSTALLATION DETAIL

REV	RECORD DATE	PRINTED NAME	DRAWN BY	DESCRIPTION
NO.	DESIGN DATE	PRINTED NAME	CHECKED BY	
2/3/10		AS-BUILT	SMR	

DEPARTMENT OF TRANSPORTATION  
FEDERAL AVIATION ADMINISTRATION  
ALASKA REGION - ANCHORAGE, ALASKA

PAPI  
DETAILS  
VARIOUS, ALASKA

SUBMITTED BY	APPROVED BY
THOMAS P. ONDRA PROJECT MANAGER, ANI-760/780	WALTER WILSON, MANAGER ANI-760/780 NAV/LANDING/SURV/WX PLATFORM
DESIGNED BY	DATE
DRAWN BY	DRAWING NUMBER
REVIEWED BY	DATE
ANSI-700 ANCHORAGE NAS IMPLEMENTATION CENTER	ALD-9A3-XXX.XXX





Date Plotted: November 19, 2010  
 Plot Ratio and Layout: 1"=1, layout-cover  
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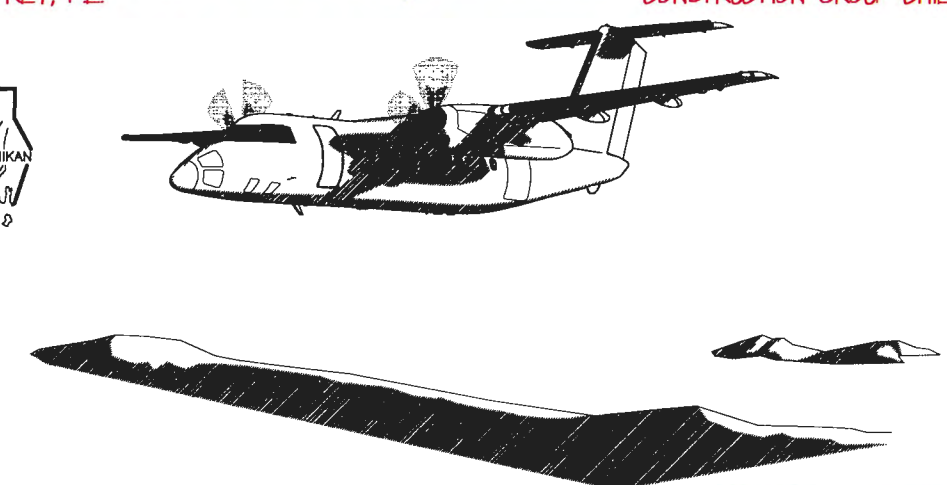
~~AS-BUILT~~  
**CONSTRUCTION PLANS FOR  
 KING SALMON AIRPORT**

**KING SALMON, ALASKA  
 RUNWAY & TAXIWAY SIGNS  
 PROJECT No. 57093  
 AIRPORT IMPROVEMENT PROGRAM  
 A.I.P. No. 3-02-0148-12-2011  
 2014**

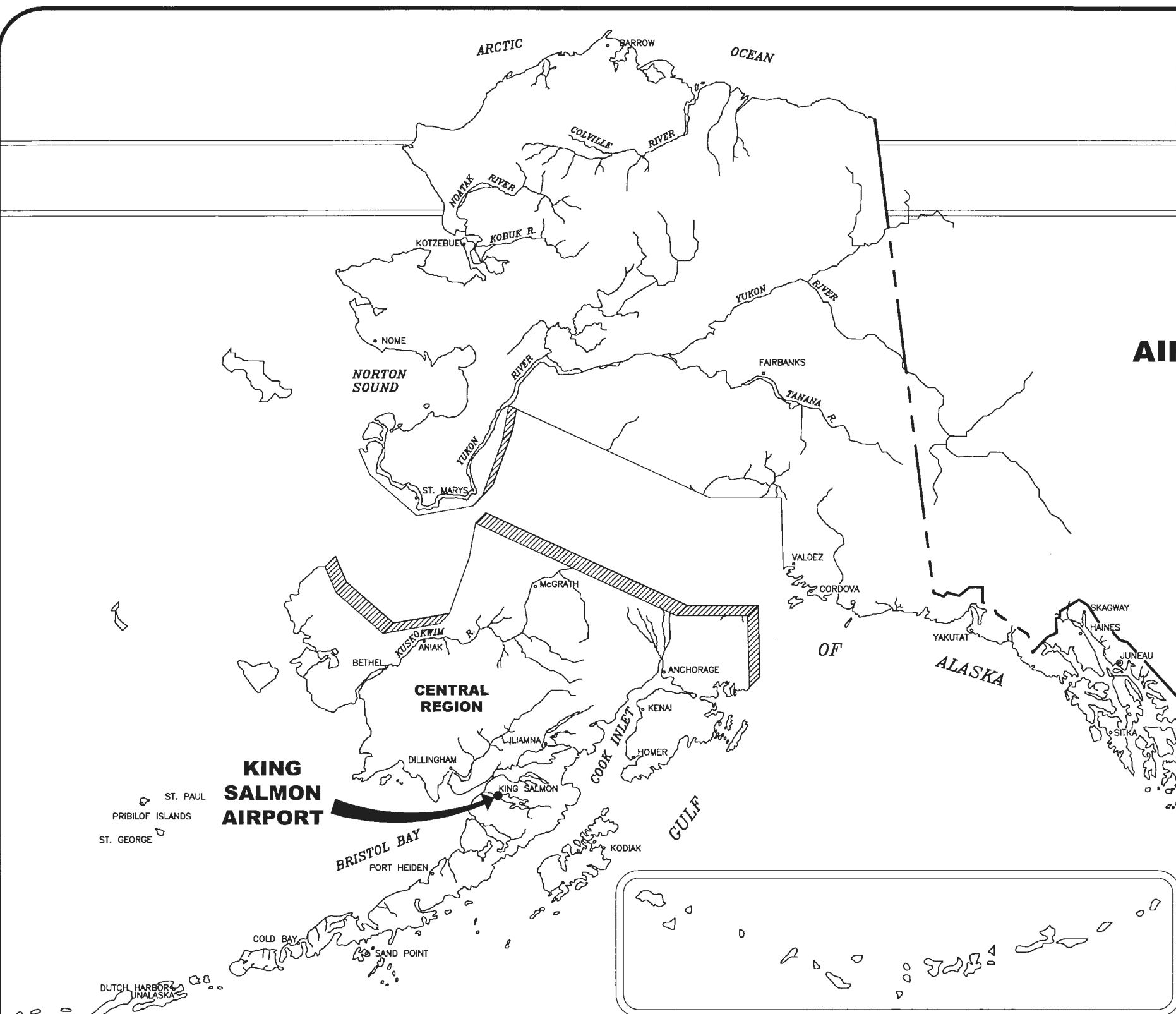
BID OPEN DATE: May 21, 2014  
 BID AMOUNT: \$ 486,700.00  
 FINAL AMOUNT: \$ 494,204.58  
 PROJECT ENGINEER: SCOTT RHEE, P.E.  
 AWARDED CONTRACTOR: ALASKA POWER & COMMUNICATIONS  
 ADDRESS: 6151 A STREET  
 ANCHORAGE, AK 99518

AS-BUILT APPROVED  
 STEVEN FREY, P.E.

DATE 3-12-15  
 CONSTRUCTION GROUP CHIEF



AS-BUILT 1/2015 1 OF 17



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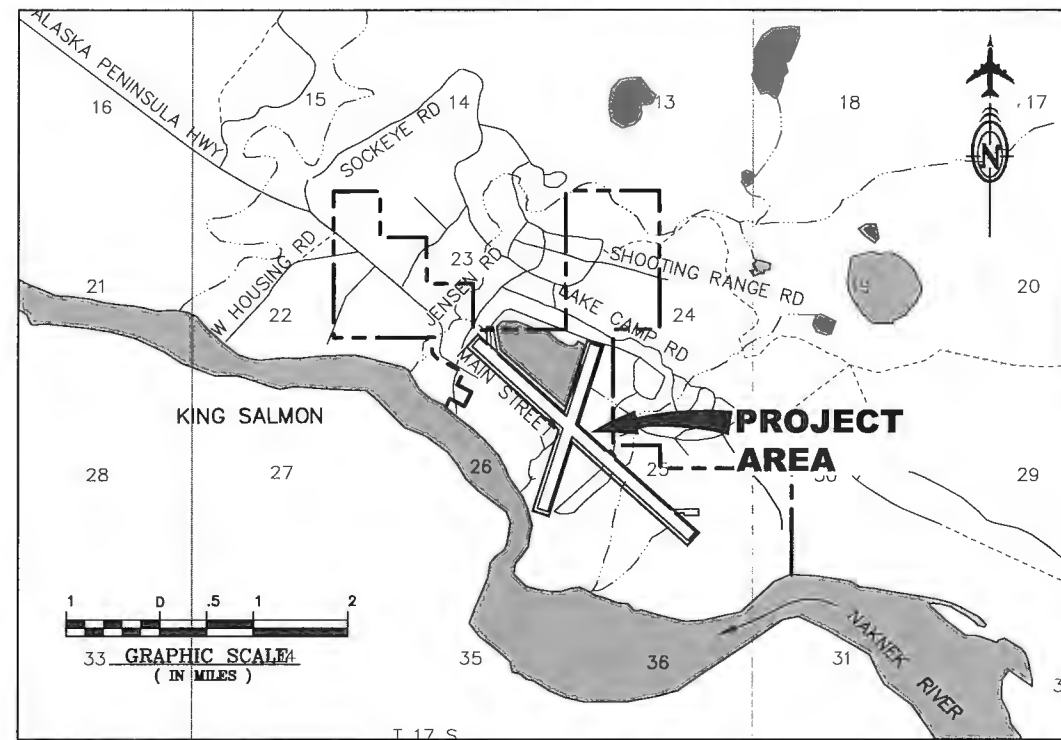
<b>CONCUR</b> JOEL ST. AUBIN, P.E.	<b>DATE</b> DIRECTOR OF DESIGN AND CONSTRUCTION
<b>APPROVED</b> KENNETH M. MORTON, P.E.	<b>DATE</b> REGIONAL PRECONSTRUCTION ENGINEER
<b>APPROVED</b> WOLFGANG JUNGE, P.E.	<b>DATE</b> DESIGN SECTION CHIEF
<b>APPROVED</b> MORGAN P. MERRITT, P.E.	<b>DATE</b> PROJECT MANAGER

**KING SALMON  
 RUNWAY & TAXIWAY SIGNS  
 PROJECT No. 57093  
 A.I.P. No. 3-02-0148-12-2011**

**SHEET 1 OF 17**

# CIVIL LEGEND

EXISTING	NEW	DESCRIPTION
---	---	PROPERTY BOUNDARY
---	---	RUNWAY SAFETY AREA
---	---	EDGE OF GRAVEL
---	---	EDGE OF PAVEMENT
---	---	RAP
---	---	CONCRETE
---	---	FENCE
---	---	STORM DRAIN LINE
---	---	SANITARY SEWER LINE
---	---	CULVERT
---	---	DRAINAGE
---	---	WETLANDS
---	---	UNDERGROUND ELECTRIC LINE
---	---	UNDERGROUND COMMUNICATION LINE
---	---	CONTOUR LINE
---	---	SILT FENCE
---	---	BUILDING
---	---	STORM DRAIN MANHOLE
---	---	SANITARY SEWER MANHOLE
---	---	SEWER CLEANOUT
---	---	SEWER SEPTIC CLEANOUT
---	---	MONITORING WELL
---	---	WATER VALVE
---	---	HYDRANT
---	---	FUEL TANK
---	---	GUARD RAIL
---	---	ELECTRICAL PEDESTAL
---	---	ELECTRICAL VAULT/TRANSFORMER
---	---	RADIO TOWER
---	---	ELECTRIC METER
---	---	GUY ANCHOR
---	---	ELECTRIC POWER POLE
---	---	ELECTRIC LIGHT POLE
---	---	ELECTRIC MANHOLE
---	---	ELECTRIC JUNCTION BOX
---	---	RUNWAY THRESHOLD LIGHT (BLUE/RED)
---	---	RUNWAY EDGE LIGHT (WHITE)
---	---	RUNWAY EDGE LIGHT (BLUE)
---	---	RUNWAY APPROACH LIGHT
---	---	TAXIWAY/APRON EDGE LIGHT
---	---	PAPI
---	---	TELEPHONE PEDESTAL
---	---	TELEPHONE MANHOLE
---	---	SIGN/MARKER
---	---	RUNWAY DISTANCE REMAINING SIGN
---	---	BOLLARD
---	---	EXISTING TEST HOLE
---	---	AIRCRAFT TIE DOWN
---	---	AIRCRAFT TIEDOWN ANCHORS
---	---	SATELLITE/RADAR DISH
---	---	SPRUCE TREE
---	---	ELECTRICAL PLUG IN
---	---	ELECTRIC POWER POLE W/ LIGHT
---	---	SEWER VENT PIPE
---	---	LIGHTED WIND CONE
---	---	SEGMENTED CIRCLE



## VICINITY MAP

T 17 S, R 45 W, SEC 23, 24, 25, & 26  
SEWARD MERIDIAN, ALASKA  
U.S.G.S. NAKNEK C-3 & C-2, AK

## GENERAL NOTES

- EXISTING GROUND CONTOURS ARE BASED ON DOWL HKM TOPOGRAPHIC SURVEY PERFORMED IN JULY THROUGH OCTOBER 2005, JANUARY & NOVEMBER 2006, AND JULY & AUGUST 2007.
- SOILS INFORMATION IS DERIVED FROM SOILS INVESTIGATIONS PERFORMED BY DOT&PF AND DOWL HKM. SEE GEOTECHNICAL REPORT DATED JUNE 2006 TITLED KING SALMON AIRPORT RUNWAY SAFETY AREA IMPROVEMENTS PHASE 1 AND REPORT DATED APRIL 2008 TITLED SUBSURFACE EXPLORATION AND GEOTECHNICAL RECOMMENDATIONS, KING SALMON AIRPORT IMPROVEMENTS.
- LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE BASED ON A COMBINATION OF FIELD SURVEY, AS BUILT RECORDS, AND APPROXIMATIONS FROM AIRPORT MAINTENANCE STAFF. CONTRACTOR SHALL FIELD LOCATE UTILITIES PRIOR TO EXCAVATION.
- VERIFY HORIZONTAL AND VERTICAL LOCATIONS OF ALL UTILITIES ENCOUNTERED DURING CONSTRUCTION. RECORD LOCATIONS AND CHANGES TO UTILITIES IN SURVEY NOTES AND ON AS BUILT DRAWINGS.
- VERIFY INVERTS AND LOCATIONS OF ALL UTILITY CONNECTION POINTS PRIOR TO INSTALLING PIPE. REPORT DISCREPANCIES FROM PLANS IMMEDIATELY TO OWNER'S REPRESENTATIVE.
- ELEVATIONS SHOWN ARE TO PIPE INVERT, FLOW LINE, OR FINISH PAVEMENT SURFACE UNLESS OTHERWISE NOTED.
- RESTORE ALL DISTURBED PROPERTY OUTSIDE OF WORK LIMITS TO ORIGINAL CONDITION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR EROSION AND SEDIMENT CONTROLS AS NECESSARY TO COMPLY WITH FEDERAL, STATE, AND BOROUGH LAWS THAT PROHIBIT UNPERMITTED DISCHARGE OF POLLUTANTS, INCLUDING SEDIMENTS, THAT ARE A RESULT OF EROSION AND OTHER CONSTRUCTION ACTIVITIES. THE CONTRACTOR SHALL CONDUCT ALL WORK SO SEDIMENT IS NOT TRANSPORTED ONTO THE ROADWAY OR ADJACENT PROPERTY. AT A MINIMUM, THE CONTRACTOR SHALL SWEEP UP ANY SEDIMENT TRACKED ONTO PAVED SURFACES IMMEDIATELY TO MINIMIZE THE WASH-OFF OF SEDIMENT INTO THE STORM DRAINAGE SYSTEM OR WATERWAYS AND TO MINIMIZE FOD. THE CONTRACTOR SHALL CONFORM WITH APPROVED SWPPP.

## ABBREVIATIONS

ABN	ABANDONED	ELEC	ELECTRIC	MH	MANHOLE	SY	SQUARE YARD
AC	ASPHALT CONCRETE	ELEV	ELEVATION	MIN	MINIMUM	TSA	TAXIWAY SAFETY AREA
ACP	ASPHALT CONCRETE PAVEMENT	EMT	ELECTRICAL METALLIC TUBING	N	NORTH	TW	TAXIWAY
AD	ALGEBRAIC DIFFERENCE	EVCE	END VERTICAL CURVE ELEVATION	NOTAM	NOTICE TO ARMEN	TYP	TYPICAL
AIP	AIRPORT IMPROVEMENTS PROJECT	EVCS	END VERTICAL CURVE STATION	NTS	NOT TO SCALE	UG	UNDERGROUND
BAK	BARRIER ARRESTING KIT	FAA	FEDERAL AVIATION ADMINISTRATION	PAPI	PRECISION APPROACH PATH INDICATOR	USAF	UNITED STATES AIR FORCE
BFM	BONDED FIBER MATRIX	FOD	FOREIGN OBJECT DEBRIS	PCC	PORTLAND CEMENT CONCRETE	VASI	VISUAL APPROACH SLOPE INDICATOR
BLDG	BUILDING	FR	FIBER ROLL	PCMP	POLYMER COATED METAL PIPE	VC	VERTICAL CURVE
BVCE	BEGINNING VERTICAL CURVE ELEVATION	FT	FOOT	POFZ	PRECISION OBSTACLE FREE ZONE	W	WEST
BVCS	BEGINNING VERTICAL CURVE STATION	GA	GENERAL AVIATION	PVI	POINT OF VERTICAL INTERSECTION		
CABC	CRUSHED AGGREGATE BASE COURSE	HECP	HYDRAULIC EROSION CONTROL PRODUCT	RAP	RECYCLED ASPHALT PAVEMENT		
CASC	CRUSHED AGGREGATE SURFACE COURSE	HDPE	HIGH-DENSITY POLYETHYLENE	RT	RIGHT		
C	CENTERLINE	HMA	HOT MIX ASPHALT	RW	RUNWAY		
CMP	CORRUGATED METAL PIPE	IFR	INSTRUMENT FLIGHT RULES	RSA	RUNWAY SAFETY AREA		
CPEP	CORRUGATED POLYETHYLENE PIPE	INV	INVERT	S	SOUTH		
CY	CUBIC YARD	LB	POUND	SD/FD	STORM DRAIN FIELD DRAIN		
DIA	DIAMETER	LF	LINEAR FOOT	SDMH	STORM DRAIN MANHOLE		
DOT&PF	STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES	LT	LEFT	SRE	SNOW REMOVAL EQUIPMENT		
E	EAST	LT	LEFT	STA	STATION		
EA	EACH	MAX	MAXIMUM	SWPPP	STORM WATER POLLUTION PREVENTION PLAN		

# INDEX

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THE FOLLOWING DOT&PF STANDARD DRAWINGS APPLY TO THIS PROJECT:  
E-13.00

AS-BUILT 1/2015 2 OF 17

PLAN PREPARED BY DOWL HKM

STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES CENTRAL REGION		<b>KING SALMON AIRPORT</b> KING SALMON, ALASKA RUNWAY & TAXIWAY SIGNS PROJECT No. 57093 AIP No. 3-02-0148-12-2011 VICINITY MAP, ABBREVIATIONS, LEGEND, NOTES, & INDEX	
DATE: 3/18/2014		SHEET: 2 OF 17	
AS-BUILT SHEET:			
BY	DATE	REVISION	
STF	01/2015	AS-BUILT	

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 Date: 12/18/2014, 1:40 PM  
 Script File: [unclear]  
 Dowl File No: 234-28  
 Designed By: MJU  
 Drawn By: RBL  
 Checked By: BRH

ESTIMATE OF QUANTITIES BASE BID

ITEM NO.	PAY ITEM	PAY UNIT	QUANTITY
G-100a	MOBILIZATION AND DEMOBILIZATION	LUMP SUM	ALL REQUIRED
G-115a	WORKER MEALS AND LODGING, OR PER DIEM	LUMP SUM	ALL REQUIRED
G-131a	ENGINEERING TRANSPORTATION (TRUCK)	EACH	1
G-135a	CONSTRUCTION SURVEYING BY THE CONTRACTOR	LUMP SUM	ALL REQUIRED
L-100n	AIRPORT SIGN, TYPE L-858	EACH	32
P-157a	EROSION, SEDIMENT, AND POLLUTION CONTROL ADMINISTRATION	LUMP SUM	ALL REQUIRED
P-157b	TEMPORARY EROSION, SEDIMENT, AND POLLUTION CONTROL	CONTINGENT SUM	ALL REQUIRED
P-157f	WITHHOLDING	CONTINGENT SUM	ALL REQUIRED
P-157g	SWPPP MANAGER	LUMP SUM	ALL REQUIRED
===== ADDITIVE ALTERNATE =====			
L-100n.1	AIRPORT SIGN, TYPE L-858	EACH	6
CHANGE ORDER NO. 1 (AIP)			
L-100m	ASPHALT SAW CUTTING AND REMOVAL	LUMP SUM	ALL REQUIRED

ESTIMATING FACTORS

ITEM NO.	PAY ITEM	ESTIMATING FACTOR
P-209b	CRUSHED AGGREGATE BASE COURSE	145 lb/ft <sup>3</sup>

ESTIMATED QUANTITIES FOR SELECT\* SUBSIDIARY ITEMS

ITEM NO.	ITEM	APPROXIMATE QUANTITY
L-100n	SPARE PARTS	ALL REQUIRED
	UNDERGROUND CABLE #8 AWG, COPPER, 5 KV FAA TYPE "B" OR TYPE "C", L-824	200 LF
	#6 BARE COPPER GROUND CONDUCTOR	1055 LF
	UNDERGROUND CABLE #14 AWG, 2-CONDUCTOR, COPPER, 600V, TYPE "S00W-A/S00W"	860 LF
	2-INCH HDPE CONDUIT	1095 LF
	REMOVAL OF STRUCTURES	ALL REQUIRED
	<del>CRUSHED AGGREGATE BASE COURSE</del> RECYCLED ASPHALT PAVEMENT	105 TON
	STRUCTURAL PORTLAND CEMENT CONCRETE	17 CY
L-100n.1	SPARE PARTS	ALL REQUIRED
	UNDERGROUND CABLE #8 AWG, COPPER, 5 KV FAA TYPE "B" OR TYPE "C", L-824	40 LF
	#6 BARE COPPER GROUND CONDUCTOR	260 LF
	UNDERGROUND CABLE #14 AWG, 2-CONDUCTOR, COPPER, 600V, TYPE "S00W-A/S00W"	190 LF
	2-INCH HDPE CONDUIT	255 LF
	REMOVAL OF STRUCTURES	ALL REQUIRED
	<del>CRUSHED AGGREGATE BASE COURSE</del> RECYCLED ASPHALT PAVEMENT	15 TONS
	STRUCTURAL PORTLAND CEMENT CONCRETE	2 CY
GEOTEXTILE, SEPARATION		22 SY

\* SEE PLANS FOR ADDITIONAL ITEMS.

AS-BUILT 1/2015 3 OF 17

PLAN PREPARED BY DOWL HKM

BY	DATE	REVISION
SJP	01/10/15	AS-BUILT

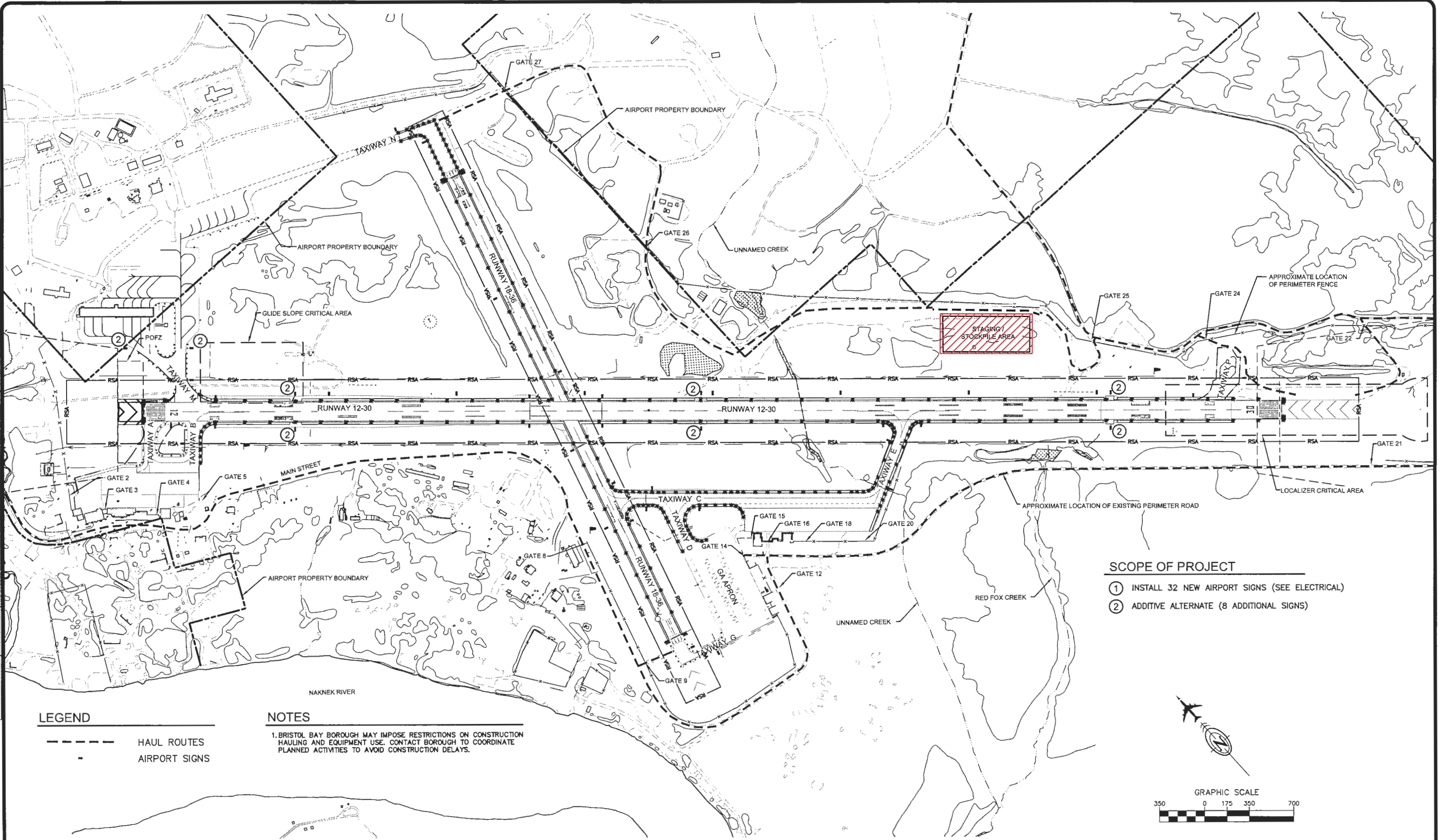
STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION  
 AND PUBLIC FACILITIES  
 CENTRAL REGION

KING SALMON AIRPORT  
 KING SALMON, ALASKA  
 RUNWAY & TAXIWAY SIGNS  
 PROJECT No. 57093  
 AIP No. 3-02-0148-12-2011  
 ESTIMATED QUANTITIES, ESTIMATING  
 FACTORS, & SUMMARY TABLES

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



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 Drawn By: MLI  
 Checked By: BRN



**LEGEND**

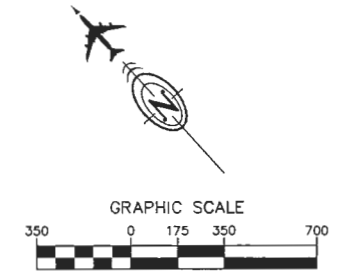
- HAUL ROUTES
- AIRPORT SIGNS

**NOTES**

1. BRISTOL BAY BOROUGH MAY IMPOSE RESTRICTIONS ON CONSTRUCTION HAULING AND EQUIPMENT USE. CONTACT BOROUGH TO COORDINATE PLANNED ACTIVITIES TO AVOID CONSTRUCTION DELAYS.

**SCOPE OF PROJECT**

- ① INSTALL 32 NEW AIRPORT SIGNS (SEE ELECTRICAL)
- ② ADDITIVE ALTERNATE (8 ADDITIONAL SIGNS)



PLAN PREPARED BY DOWL HKM

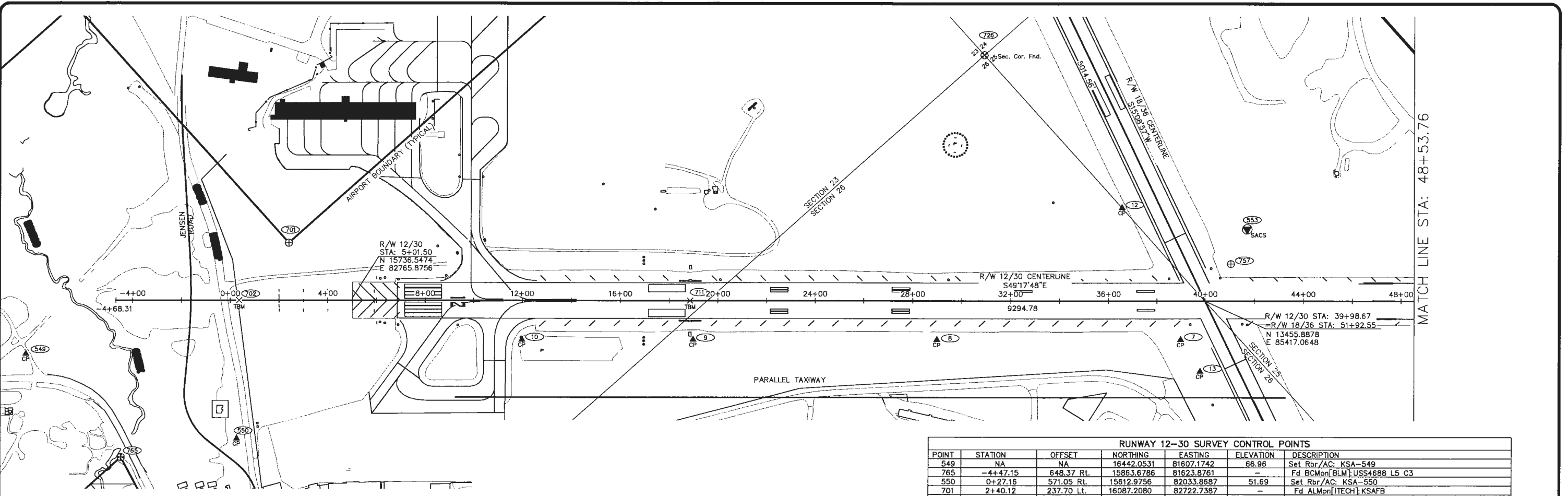
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01/20/15	SJF	AS-BUILT

STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION  
 AND PUBLIC FACILITIES  
 CENTRAL REGION

AS-BUILT 1/2015 4 OF 17  
 KING SALMON AIRPORT  
 KING SALMON, ALASKA  
 RUNWAY & TAXIWAY SIGNS  
 PROJECT No. 57093  
 AIP No. 3-02-0148-12-2011  
 PROJECT LAYOUT PLAN

DATE: 3/18/2014  
 SHEET: 4 OF 17  
 AS-BUILT SHEET:

Date Revised: 12/19/2014, 3:30 PM  
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 SCRIPT FILE:  
 Designed By: MJJ  
 Drawn By: ROL  
 Checked By: BRH



**HORIZONTAL CONTROL:**

**Coordinate System:**  
 This project is located within the "King-Nak" Coordinate System, a local surface grid coordinate system expressed in U.S. Survey feet units developed by the State of Alaska Department of Transportation and Public Facilities.

**Basis of Coordinates:**  
 The Basis of Coordinates is NGS Primary Airport Control Station "AKN-A", located near the southeast corner of Runway 18/36. Said station has "King-Nak" Coordinate System coordinates of 10997.3450 N, 84963.3550 E. U.S. Survey Feet.

**Basis of Bearings:**  
 The Basis of Bearings is a local plane bearing between NGS Primary Airport Control Station "AKN-A" and NGS Secondary Airport Control Station "AKN-C". NGS Secondary Airport Control Station "AKN-C" bears N28°12'27.9\"/>

**Translation Parameters:**  
 To convert the local coordinates to NAD83 (92) State Plane coordinates expressed in U.S. Survey Feet, translate using +1697882.76131 N usf, +1811590.29829 E usf, and scale using 0.9999837981.

**VERTICAL CONTROL:**  
 Elevations are based on Primary Airport Control Station (PACS) Monument "AKN-A" with a published elevation of 55.2'. The NGS Data Sheet lists a NAVD 88 orthometric height for this point that was determined by GPS observations and a high-resolution geoid model. GPS derived orthometric heights for airport stations designated as PACS or SACS are published to 1 decimal place (U.S. Survey Feet). This maintains relative accuracy between the PACS and SACS, it does not indicate accuracy relative to other marks which are part of the NAVD 88 network.

Elevations of Secondary Airport Control Stations (SACS), and other Horizontal & Vertical Survey Control points were established by differential leveling loops using a Leica DNA10 digital level. Elevations of Secondary Horizontal Survey Control points should be verified from the Vertical Survey Control before using due to the potential of settlement or frost heave of these types of monuments over time.

**NOTES:**

- Horizontal control points 551, and 552 were used as the basis of coordinates and held in a simultaneous Least Squares Network Adjustment with Static GPS Control Points 1, 2, 548 - 550, 553, 701 - 710, 714-737, and 739-771, in Leica Geo Office Version 2.0. All other survey control point coordinates listed were established by DOWL Engineers using conventional traverse techniques utilizing a Leica TCPR 1205+ Total Station instrument. These conventional control points were adjusted with a least squares traverse adjustment in Land Development Desktop.
- Control point 552, AKN-C (SACS), was disturbed and reset by others after this survey. Its new position has not been verified, therefore it is not shown or listed hereon.
- All background information shown herein was obtained from the King Salmon Airport "Aerial Mapping", as performed by Aeromap utilizing photos acquired on August 23, 1987 and October 2, 1997. This background is for orientation purposes only.
- This survey was completed by DOWL HKM in parts of July, August, September, and October of 2005, January and November of 2006, and July and August of 2007. All dimensions and coordinates shown are in U.S. Survey Feet unless noted otherwise.
- Whether listed or not, all monuments or property markers corners, or accessories which will be disturbed or buried, shall be referenced and re-established in their original position (A.S. 19.10.260) and recorded (A.S. 34.65.040).
- Monuments and control points shown hereon have not been field verified since 2009.

RUNWAY 12-30 SURVEY CONTROL POINTS						
POINT	STATION	OFFSET	NORTHING	EASTING	ELEVATION	DESCRIPTION
549	NA	NA	16442.0531	81607.1742	66.96	Set Rbr/AC: KSA-549
765	-4+47.15	648.37 Rt.	15863.6786	81623.8761	-	Fd BMon[BLM]:USS4688 L5 C3
550	0+27.16	571.05 Rt.	15612.9756	82033.8687	51.69	Set Rbr/AC: KSA-550
701	2+40.12	237.70 Lt.	16087.2080	82722.7387	-	Fd ALMon[TECH]:KSAFB
10	11+98.87	161.77 Rt.	15159.1227	83189.0463	54.85	Set Rbr/AC: KSA-10
9	18+98.88	161.50 Rt.	14702.8262	83719.9023	53.66	Set Rbr/AC: KSA-9
8	28+98.79	161.08 Rt.	14051.0552	84478.2034	55.10	Set Rbr/AC: KSA-8
726	30+90.97	1016.01 Lt.	14818.0753	85391.5268	-	Fd BMon[BLM]:S23/S24/S26/S25*T17S R45W
12	36+54.78	384.65 Lt.	13971.7528	85407.2054	60.20	Set Rbr/AC: KSA-12
7	38+98.56	160.65 Rt.	13399.3872	85236.4011	57.97	Set Rbr/AC: KSA-7
13	39+78.16	291.97 Rt.	13247.9196	85211.1096	57.19	Set Rbr/AC: KSA-13
757	41+04.44	152.99 Lt.	13502.8922	85597.0161	-	Set ALMon[DOWL]:RM N 1/16 S26/S25*T17S R45W
553	41+70.85	296.66 Lt.	13568.5050	85741.0566	63.02	Fd BMon[NGS]:AKN-B (SACS)

RUNWAY 12-30 VERTICAL CONTROL						
POINT	STATION	OFFSET	NORTHING	EASTING	ELEVATION	DESCRIPTION
702	0+36.50	0.00	16039.7944	82413.3613	56.76	Fd BMon[US Eng Office]:B-6
711	18+85.94	0.06 Lt.	14833.7335	83815.4533	58.21	Fd BMon[COE]:KS-10

**MONUMENT LEGEND**

- GOV'T SECTION CORNER
- GOV'T SURVEY MONUMENT
- NGS CONTROL MONUMENT
- PRIMARY MONUMENT [BRASS/AL CAP]
- CENTERLINE SURVEY MONUMENT
- COE MONUMENT/TEMPORARY BENCH MARK
- PRIMARY CONTROL POINT
- POINT NUMBER



AS-BUILT 1/2015 5 OF 17

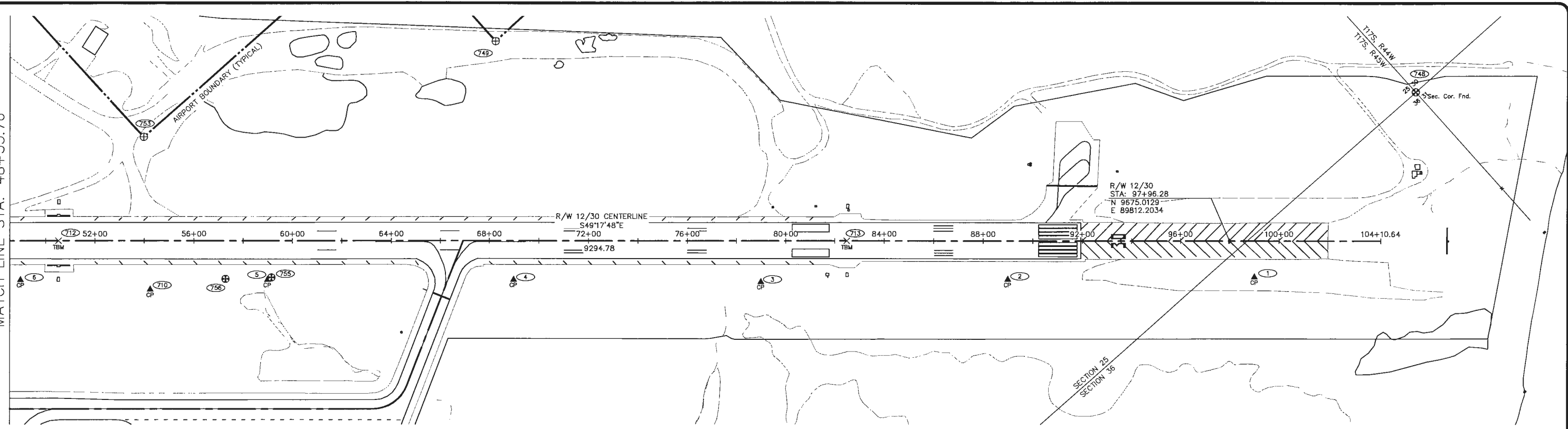
PLAN PREPARED BY DOWL HKM

	<b>STATE OF ALASKA</b>	<b>KING SALMON AIRPORT</b>	
	<b>DEPARTMENT OF TRANSPORTATION</b>	<b>KING SALMON, ALASKA</b>	DATE: 3/18/2014
	<b>AND PUBLIC FACILITIES</b>	<b>RUNWAY &amp; TAXIWAY SIGNS</b>	SHEET: 5 OF 17
	<b>CENTRAL REGION</b>	<b>PROJECT No. 57093</b>	AS-BUILT SHEET:
		<b>AIP No. 3-02-0148-12-2011</b>	
		<b>SURVEY CONTROL SHEET</b>	
BY: <b>BRH</b>	DATE: <b>01/2015</b>	REVISION: <b>AS-BUILT</b>	



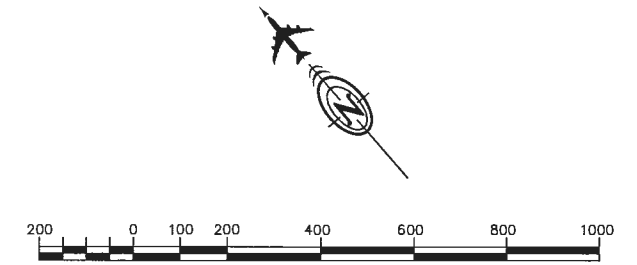
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 SCRIPT FILE:  
 Designed By: MLI  
 ROL  
 Drawn By: BRH  
 Checked By: BRH

MATCH LINE STA: 48+53.76



RUNWAY 12-30 SURVEY CONTROL POINTS						
POINT	STATION	OFFSET	NORTHING	EASTING	ELEVATION	DESCRIPTION
6	48+98.63	160.22 Rt.	12747.5196	85994.8301	63.20	Set Rbr/AC: KSA-6
753	53+97.78	424.29 Lt.	12865.1222	86754.4155	-	Fd ALMon[TECH]:KSAFB
710	54+24.82	199.96 Rt.	12374.2429	86367.8156	63.94	Fd Rod/BC[ADOT/PF]:ESKIMO
756	57+28.53	155.72 Rt.	12209.7216	86626.9159	-	Fd ALMon[BLM]:RM CW 1/16 S25*T17S R45W
5	58+98.99	159.78 Rt.	12095.4792	86753.4865	61.99	Set Rbr/AC: KSA-5
755	59+15.17	149.73 Rt.	12092.3418	86772.3051	-	Fd ALMon[BLM]:RM CW 1/16 S25*T17S R45W
749	68+23.91	815.41 Lt.	12231.5846	88090.6259	-	Fd ALMon[TECH]:KSAFB
4	68+98.50	159.33 Rt.	11443.9960	87511.5042	61.87	Set Rbr/AC: KSA-4
3	78+98.87	168.25 Rt.	10784.8479	88264.0564	63.95	Set Rbr/AC: KSA-3
2	88+99.49	158.35 Rt.	10139.7999	89029.0829	66.67	Set Rbr/AC: AZ-KSA-2
1	99+00.27	148.45 Rt.	9494.6573	89794.2315	68.26	Set Rbr/AC: AZ-KSA-1
748	105+51.17	609.17 Lt.	8644.5254	90781.7524	-	Fd BMon[BLM]:S29[S30/S36]S31*T17S R45W

RUNWAY 12-30 VERTICAL CONTROL						
POINT	STATION	OFFSET	NORTHING	EASTING	ELEVATION	DESCRIPTION
712	50+52.10	0.03 Lt.	12768.9257	86215.6787	65.71	Fd BC[COE]:KS-11
713	82+48.70	0.00	10684.2586	88638.9896	67.89	Fd BC[COE]:KS-12



MONUMENT LEGEND	
	GOVT SECTION CORNER
	GOVT SURVEY MONUMENT
	NGS CONTROL MONUMENT
	PRIMARY MONUMENT [BRASS/AL CAP]
	CENTERLINE SURVEY MONUMENT
	COE MONUMENT/TEMPORARY BENCH MARK
	PRIMARY CONTROL POINT
	POINT NUMBER

AS-BUILT 1/2015 6 OF 17

PLAN PREPARED BY DOWL HKM

BY	DATE	REVISION
SJF	01/2015	AS-BUILT

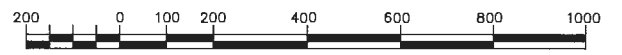
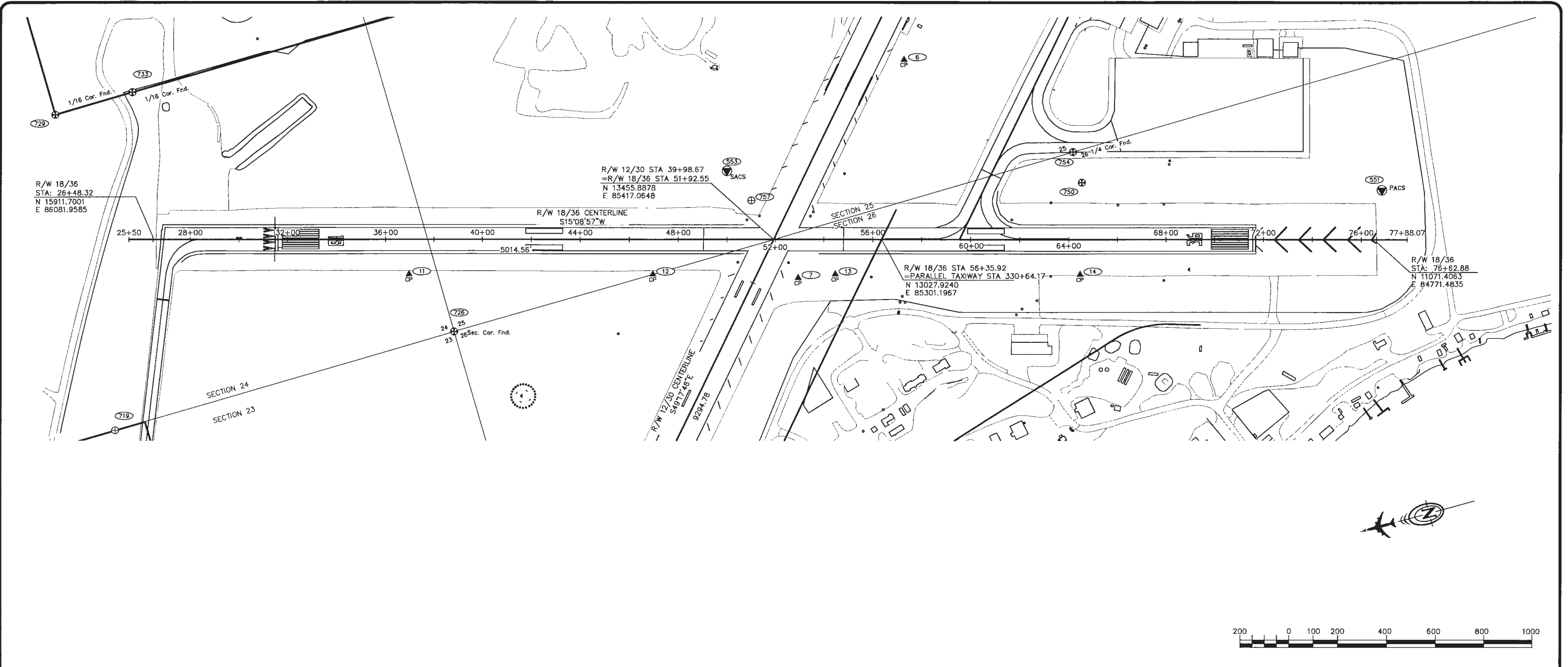
STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION  
 AND PUBLIC FACILITIES  
 CENTRAL REGION

KING SALMON AIRPORT  
 KING SALMON, ALASKA  
 RUNWAY & TAXIWAY SIGNS  
 PROJECT No. 57093  
 AIP No. 3-02-0148-12-2011  
 SURVEY CONTROL SHEET

DATE: 3/18/2014  
 SHEET: 6 OF 17  
 AS-BUILT SHEET:



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 Designed By: MJI  
 Drawn By: RDL  
 Checked By: BRH



POINT	STATION	OFFSET	NORTHING	EASTING	ELEVATION	DESCRIPTION
729	22+46.26	515.36 Lt.	16165.1096	86684.4801	-	Fd ALMon[BLM]: SW1/16 S24*T17S R45W
719	24+94.20	788.31 Rt.	16266.4762	85361.3231	-	Fd ALMon[TECH]: KSAFB
733	25+63.22	608.46 Lt.	15834.8279	86691.5070	-	Fd ALMon[BLM]: CNSSW 1/256 S24*T17S R45W
11	36+97.06	144.23 Rt.	14937.1014	85668.6677	60.97	Set Rbr/AC: KSA-11
726	38+84.37	380.64 Rt.	14818.0753	85391.5267	-	Fd BGMon[BLM]: S23[S224/S26]S25*T17S R45W
12	46+97.19	144.33 Rt.	13971.7528	85407.2054	60.20	Set Rbr/AC: KSA-12
553	49+99.17	283.30 Lt.	13568.5050	85741.0566	63.11	Fd BGMon[NGS]: AKN-B (SACS)
757	51+00.15	181.41 Lt.	13502.8922	85597.0161	-	Set ALMon[DOWL]: RM N 1/16 S25*T17S R45W
7	52+94.30	159.62 Rt.	13399.3872	85236.4011	57.97	Set Rbr/AC: KSA-7
13	54+47.11	144.45 Rt.	13247.9196	85211.1096	57.19	Set Rbr/AC: KSA-13
6	57+26.19	743.01 Lt.	12747.5196	85994.8301	63.20	Set Rbr/AC: KSA-6
754	64+16.77	361.86 Lt.	12179.6467	85446.4207	-	Fd ALMon[BLM]: 1/4 S26*T17S R45W
14	64+47.09	144.64 Rt.	12282.7473	84949.5970	53.78	Set Rbr/AC: KSA-14
750	64+53.43	235.44 Lt.	12177.2969	85314.8149	54.30	Fd ALMon[BLM]: RM 1/4 S26[S25*T17S R45W
551	76+84.22	204.56 Lt.	10997.3450	84963.3550	55.20	Fd BGMon[NGS]: AKN-A (PACS)

**MONUMENT LEGEND**

- GOV'T SECTION CORNER
- GOV'T SURVEY MONUMENT
- NGS CONTROL MONUMENT
- PRIMARY MONUMENT [BRASS/AL CAP]
- CENTERLINE SURVEY MONUMENT
- COE MONUMENT/TEMPORARY BENCH MARK
- PRIMARY CONTROL POINT
- POINT NUMBER

AS-BUILT 1/2015 7 OF 17

PLAN PREPARED BY DOWL HKM

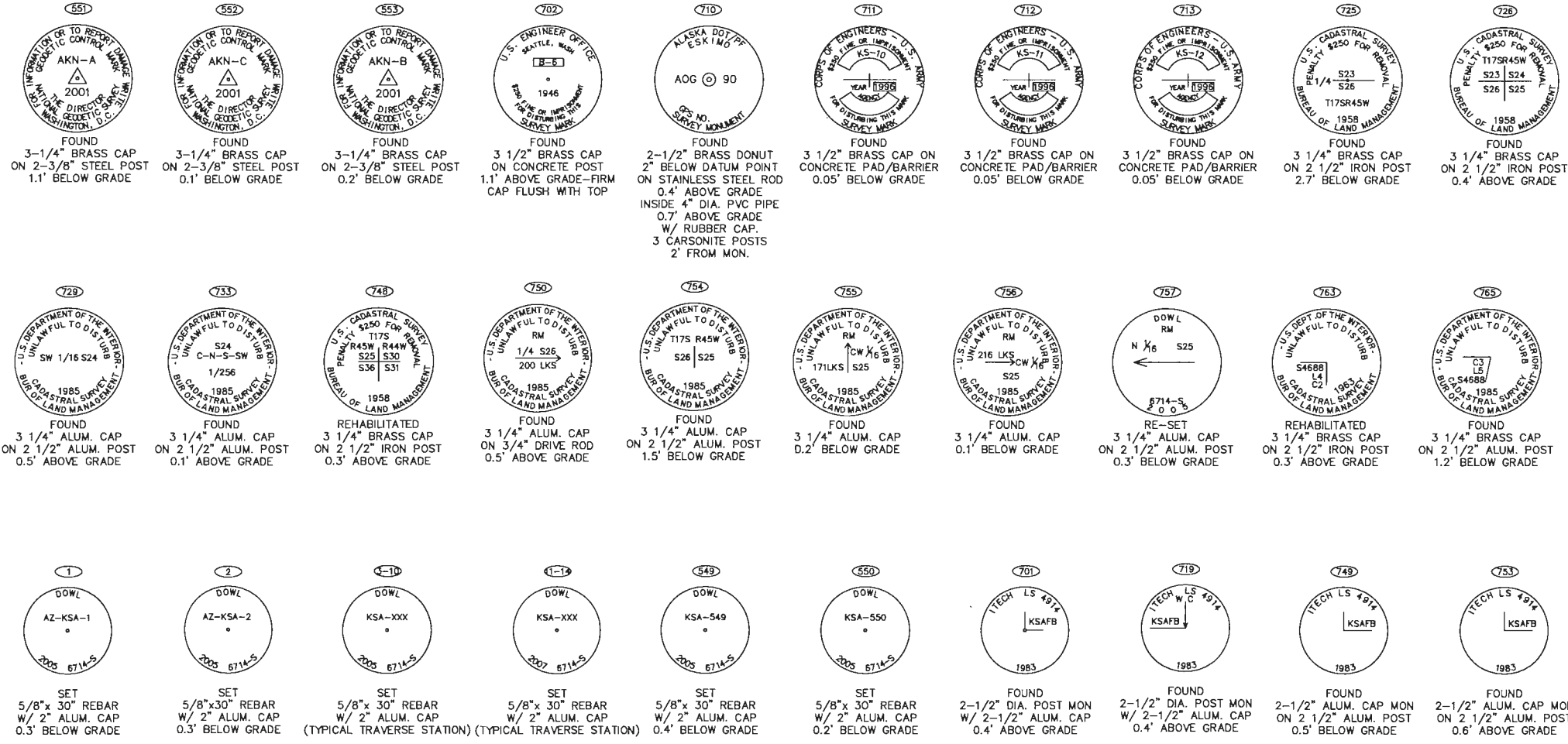
BY	DATE	REVISION
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**STATE OF ALASKA**  
**DEPARTMENT OF TRANSPORTATION**  
**AND PUBLIC FACILITIES**  
**CENTRAL REGION**

**KING SALMON AIRPORT**  
**KING SALMON, ALASKA**  
 RUNWAY & TAXIWAY SIGNS  
 PROJECT No. 57093  
 AIP No. 3-02-0148-12-2011  
 SURVEY CONTROL SHEET

DATE: 3/18/2014  
 SHEET: 7 OF 17  
 AS-BUILT SHEET:

Date Revis: 12/29/2014 3:31 PM  
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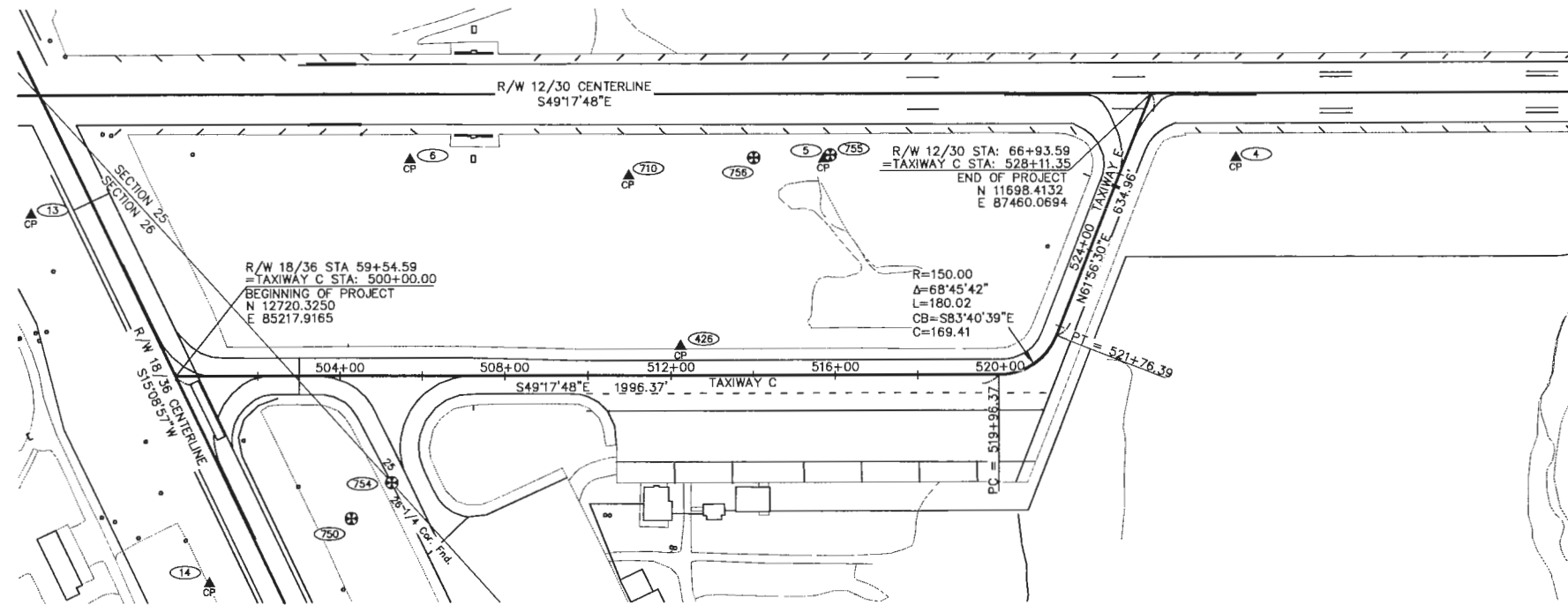


AS-BUILT 1/2015 8 OF 17

PLAN PREPARED BY DOWL HKM

		<b>STATE OF ALASKA</b>		<b>KING SALMON AIRPORT</b>		
		<b>DEPARTMENT OF TRANSPORTATION</b>				DATE: 3/18/2014
		<b>AND PUBLIC FACILITIES</b>				SHEET: 8 OF 17
		<b>CENTRAL REGION</b>		AIP No. 3-02-0148-12-2011 SURVEY CONTROL SHEET		
BY	DATE	REVISION				
SJF	01/2015	AS-BUILT				

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 SCRIPT FILE:  
 Designed By: MLI  
 Drawn By: BDL  
 Checked By: BRH



**MONUMENT LEGEND**

- GOVT SECTION CORNER
- GOVT SURVEY MONUMENT
- NGS CONTROL MONUMENT
- PRIMARY MONUMENT [BRASS/AL CAP]
- CENTERLINE SURVEY MONUMENT
- COE MONUMENT/TEMPORARY BENCH MARK
- PRIMARY CONTROL POINT
- POINT NUMBER



POINT	STATION	OFFSET	NORTHING	EASTING	ELEVATION	DESCRIPTION
13	496+50.77	395.53 Lt.	13247.9196	85211.1096	57.19	Set Rbr/AC: KSA-13
14	500+81.95	506.71 Rt.	12282.7473	84949.5970	53.78	Set Rbr/AC: KSA-14
750	504+27.59	348.48 Rt.	12177.2969	85314.8149	-	Fd ALMon[BLM]:RM 1/4 S26[S25*T17S R45W
754	505+25.83	260.87 Rt.	12179.6467	85446.4207	-	Fd ALMon[BLM]:1/4 S26[S25*T17S R45W
6	505+71.24	527.28 Lt.	12747.5196	85994.8301	63.20	Set Rbr/AC: KSA-6
710	510+97.43	487.54 Lt.	12374.2429	86367.8156	63.94	Fd Rod/BC[ADOT/PF] ESKIMO
426	512+23.37	71.29 Lt.	11976.5623	86191.8373	55.46	Set Rbr/AC: KSA-426
756	514+01.14	531.78 Lt.	12209.7216	86626.9159	-	Fd ALMon[BLM]:RM CW 1/16 S25*T17S R45W
5	515+71.60	527.72 Lt.	12095.4792	86753.4865	61.99	Set Rbr/AC: KSA-5
755	515+87.78	537.77 Lt.	12092.5418	86772.3051	-	Fd ALMon[BLM]:RM CW 1/16 S25*T17S R45W
4	527+37.07	248.71 Rt.	11443.9960	87511.5042	61.87	Set Rbr/AC: KSA-4

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STATE OF ALASKA  
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AS-BUILT 1/2015 9 OF 17  
**KING SALMON AIRPORT**  
 KING SALMON, ALASKA  
 RUNWAY & TAXIWAY SIGNS  
 PROJECT No. 57093  
 AIP No. 3-02-0148-12-2011  
 SURVEY CONTROL SHEET

DATE: 3/18/2014  
 SHEET: 9 OF 17  
 AS-BUILT SHEET:



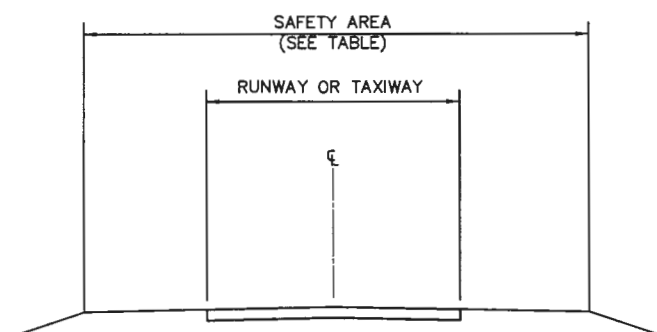
CONSTRUCTION COMPLETION SCHEDULE

WORK AREA	WORK TO BE COMPLETED	COMPLETION DATE	RESTRICTION	CLOSURES	NAVAID/VISUAL AID IMPACTS	HAZARD MARKER BARRIER LOCATION	NOTES
(A) GLIDE SLOPE AND LOCALIZER CRITICAL AREA	INSTALL NEW RW AND TW SIGNS	10/1/2014	WORK MUST BE COMPLETED WITHIN 7 CALENDAR DAYS IN EACH CRITICAL AREA	NONE	GLIDE SLOPE AND LOCALIZER WILL BE TEMPORARILY DISABLED OR A NOTAM WILL BE ISSUED	AS DIRECTED BY THE ENGINEER	WORK IN CRITICAL AREAS REQUIRES 45 DAY ADVANCE NOTIFICATION. SEE SPECIFICATIONS & SAFETY PLAN NARRATIVE
(B) RW 12-30 AND TAXIWAYS	INSTALL NEW RW AND TW SIGNS	10/1/2014	NOTAMS FOR CONSTRUCTION ACTIVITIES MAY ALLOW PARTIAL CLOSURES OF RUNWAYS AND TAXIWAYS	NONE	NONE	AS DIRECTED BY THE ENGINEER	ALL TRENCHES AND EXCAVATIONS MUST BE BACKFILLED TO PRE-EXISTING ELEVATIONS AND GRADED TO MATCH THE PRE-EXISTING SLOPES AT THE END OF EACH CONSTRUCTION SHIFT. SEE NOTE 6 FOR LIGHTING REQUIREMENTS
(C) RW 18-36 AND TAXIWAYS	INSTALL NEW RW AND TW SIGNS	10/1/2014	NOTAMS FOR CONSTRUCTION ACTIVITIES MAY ALLOW PARTIAL CLOSURES OF RUNWAYS AND TAXIWAYS	NONE	NONE	AS DIRECTED BY THE ENGINEER	ALL TRENCHES AND EXCAVATIONS MUST BE BACKFILLED TO PRE-EXISTING ELEVATIONS AND GRADED TO MATCH THE PRE-EXISTING SLOPES AT THE END OF EACH CONSTRUCTION SHIFT. SEE NOTE 6 FOR LIGHTING REQUIREMENTS

NOTES

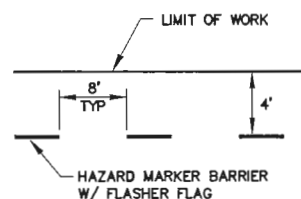
- SEE APPENDIX D FOR THE SAFETY PLAN NARRATIVE AND SECTION 80 OF THE SPECIFICATIONS FOR LIMITATIONS AND OPERATIONAL SAFETY CONCERNS.
- THE CONTRACTOR WILL BE REQUIRED TO COORDINATE WITH THE ENGINEER AND AIRPORT MANAGER TO ISSUE NOTAMS REGARDING CURRENT AIRPORT OPERATIONS AND RESTRICTIONS. THE CONTRACTOR WILL BE REQUIRED TO ESTABLISH A POINT OF CONTACT WITH EACH OF THE SCHEDULED CARRIERS AND TO FAX UPDATED OPERATIONS INFORMATION TO THE CONTACTS EACH WEEK AS CHANGES OCCUR. THE UPDATES WILL INCLUDE A SKETCH OF AIRPORT OPERATION AREAS AND WORK AREAS.
- WORK OUTSIDE THE LIMITS OF THE RUNWAY SAFETY AREA AND TAXIWAY SAFETY AREA MAY BE PERFORMED AT ANY TIME WITHOUT CLOSURES, (SEE DETAIL 1/10). WORK WITHIN THE SAFETY AREAS AND WORK AFFECTING OPERATIONS SHALL NOT BEGIN UNTIL AUTHORIZED BY THE ENGINEER.
- RUNWAY CLOSURES CAN BE PROPOSED TO THE ENGINEER AND PUT INTO AFFECT ONLY WITH THE APPROVAL OF THE ENGINEER AND AIRPORT MANAGER.
- MAINTAIN AIRCRAFT ACCESS TO THE APRONS, TAXIWAYS, AND RUNWAYS DURING ALL STAGES OF WORK. GUIDE AIRCRAFT THROUGH WORK AREAS AS REQUIRED.
- PROVIDE TEMPORARY LIGHTING AND JUMPERS AS REQUIRED TO MAINTAIN OPERATIONAL SIGNAGE, RW LIGHTING, AND TW LIGHTING SYSTEMS BETWEEN EVENING CIVIL TWILIGHT AND MORNING CIVIL TWILIGHT AND DURING INSTRUMENT FLIGHT RULES (IFR) WEATHER CONDITIONS. EXISTING EQUIPMENT MAY BE USED AS APPLICABLE.
- PAPIS AND APPROACH LIGHTING SHALL REMAIN OPERATIONAL DURING CONSTRUCTION.
- STORAGE OF EQUIPMENT OR MATERIALS ON THE RUNWAYS, TAXIWAYS, APRONS, OR SAFETY AREAS WILL NOT BE ALLOWED.
- ALL TRENCHES AND EXCAVATIONS MUST BE BACKFILLED TO PRE-EXISTING ELEVATIONS AND GRADED TO MATCH THE PRE-EXISTING SLOPES AT THE END OF EACH CONSTRUCTION SHIFT. NO TRENCHES MAY BE LEFT OPEN IN RSAs OR TSAs.
- CONTACT USAF THROUGH THE PROJECT ENGINEER TO LOCATE ANY BAK POWER CABLES BEFORE EXCAVATION.

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 Drawn By: ROL  
 Checked By: BRH

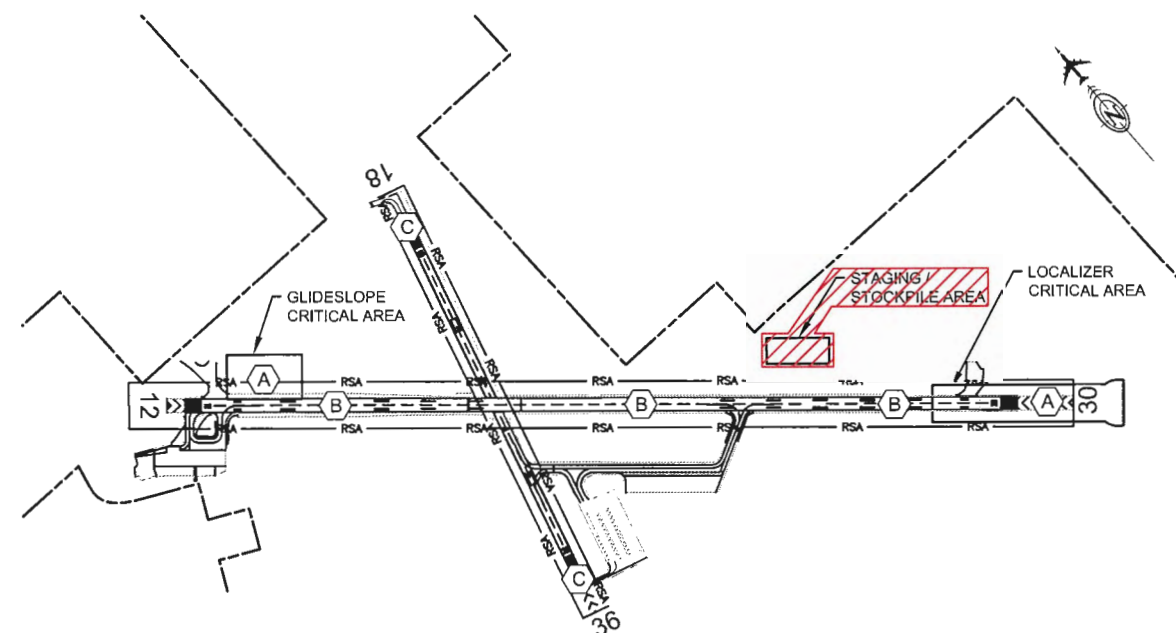


1 SAFETY AREA DETAIL  
10 NTS

LOCATION	SAFETY AREA TOTAL WIDTH
RW 12/30	500 FT
RW 18/36	300 FT
TW A	118 FT
TW B	118 FT
TW C	118 FT
TW D	118 FT
TW E	118 FT
TW G	79 FT
TW K	118 FT
TW M	118 FT
TW N	79 FT



2 HAZARD MARKER BARRIER LAYOUT  
10 NTS



3 WORK AREA DETAIL  
10 NTS

PLAN PREPARED BY DOWL HKM

DATE	BY	REVISION
01/2015	STF	AS-BUILT

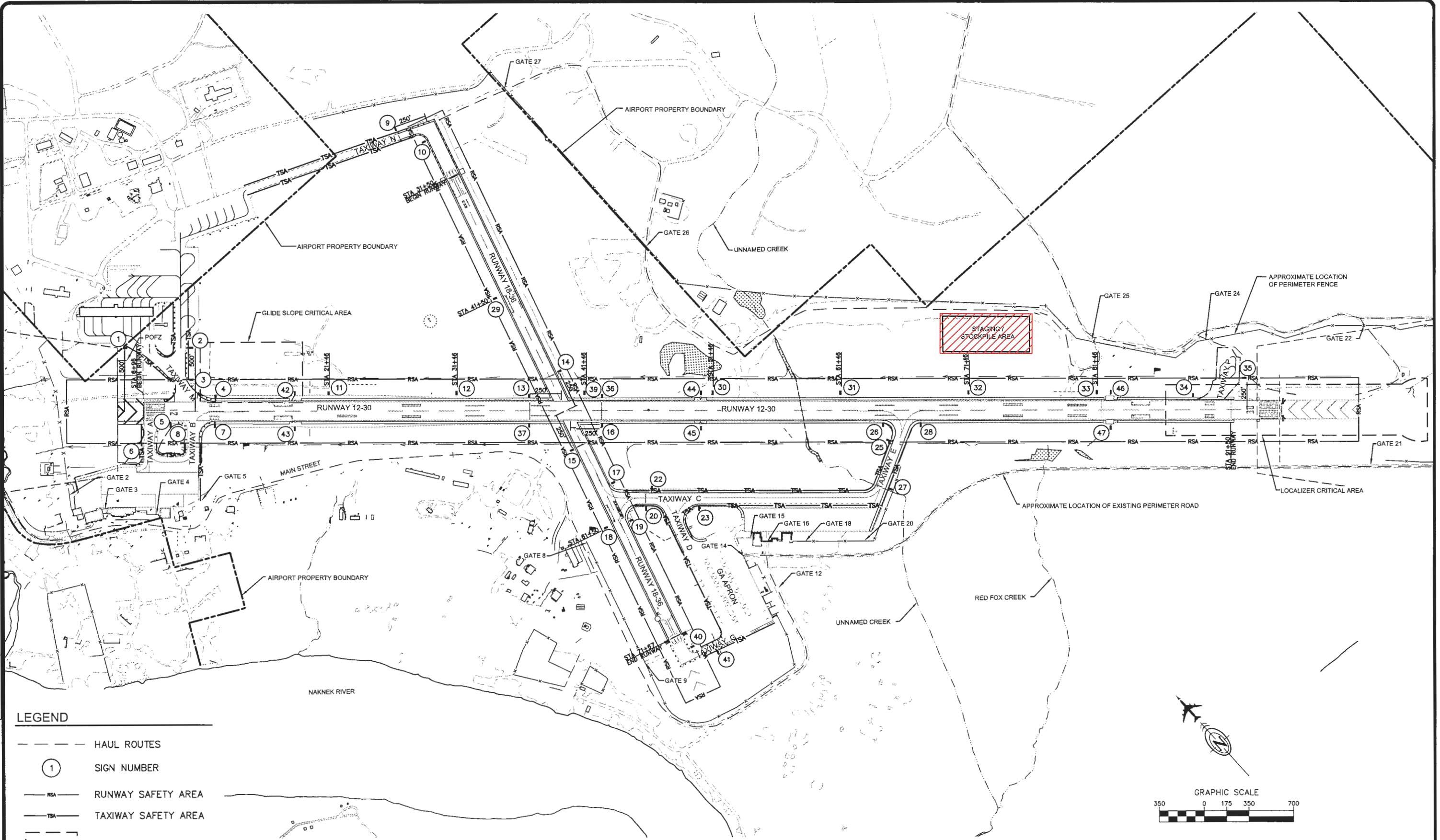
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KING SALMON AIRPORT  
KING SALMON, ALASKA  
RUNWAY & TAXIWAY SIGNS  
PROJECT No. 57093  
AIP No. 3-02-0148-12-2011  
CONSTRUCTION STAGING AND SAFETY PLAN,  
NOTES, AND DETAILS

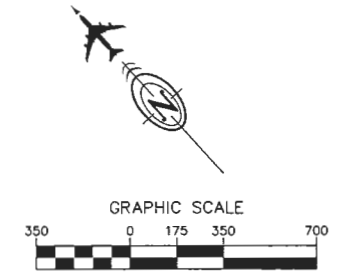
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 DWG File No: 234-26  
 Designed By: MJL  
 Drawn By: RLL  
 Checked By: BRR



- LEGEND**
- HAUL ROUTES
  - SIGN NUMBER
  - RUNWAY SAFETY AREA
  - TAXIWAY SAFETY AREA
  - CRITICAL AREA



PLAN PREPARED BY DOWL HKM

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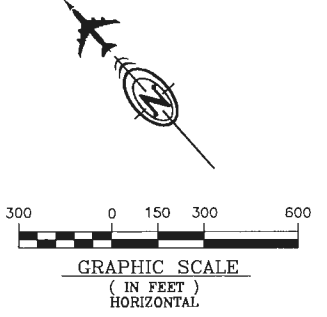
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**KING SALMON AIRPORT**  
 KING SALMON, ALASKA  
 RUNWAY & TAXIWAY SIGNS  
 PROJECT No. 57093  
 AIP No. 3-02-0148-12-2011  
 CONSTRUCTION STAGING AND SAFETY PLAN  
 DATE: 3/18/2014  
 SHEET: 11 OF 17  
 AS-BUILT SHEET:





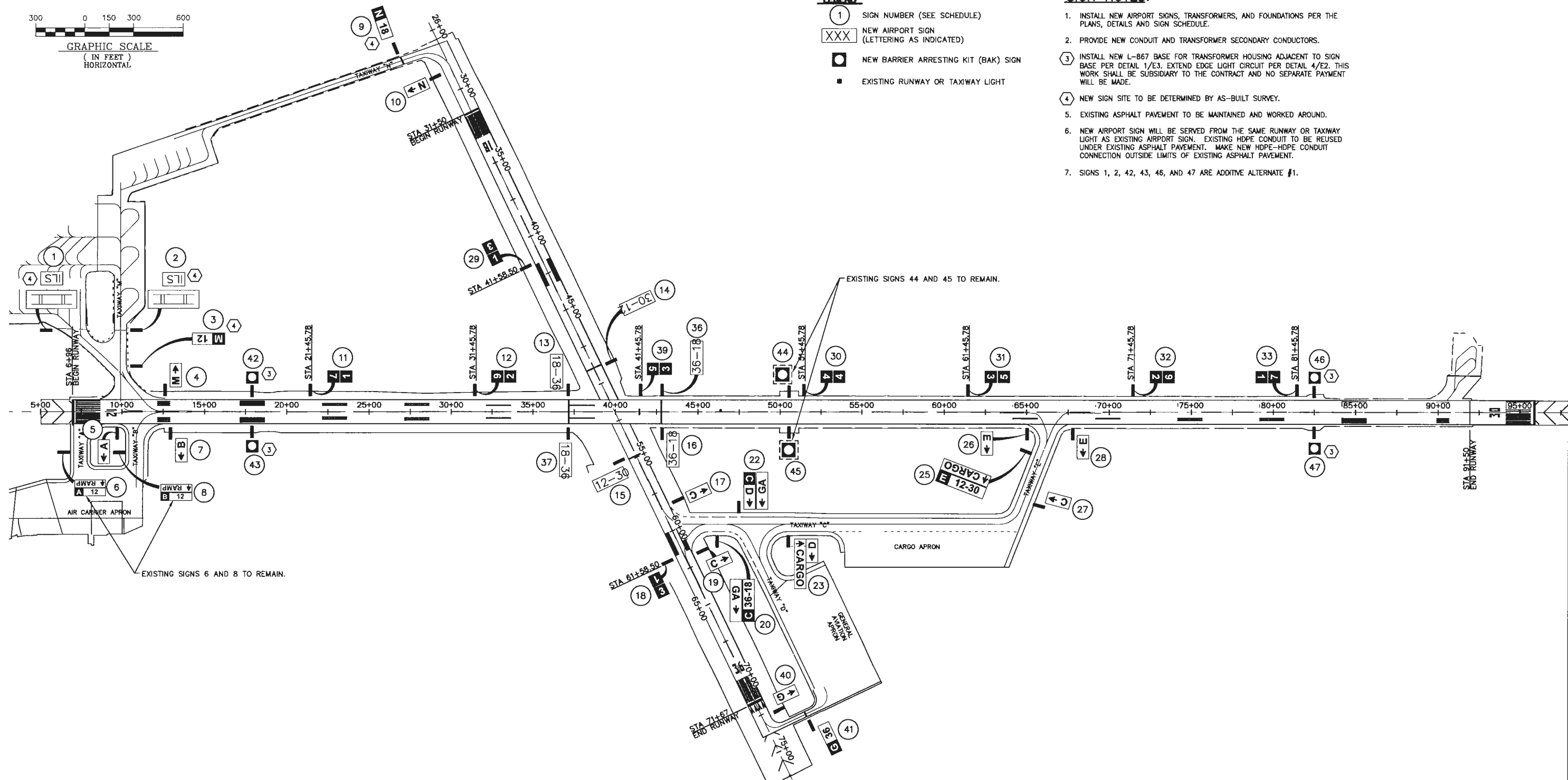




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 Designed By: [Redacted]  
 Drawn By: [Redacted]  
 Checked By: [Redacted]

- LEGEND:**
- ① SIGN NUMBER (SEE SCHEDULE)
  - XXX NEW AIRPORT SIGN (LETTERING AS INDICATED)
  - ◻ NEW BARRIER ARRESTING KIT (BAK) SIGN
  - EXISTING RUNWAY OR TAXIWAY LIGHT

- SIGN NOTES:**
1. INSTALL NEW AIRPORT SIGNS, TRANSFORMERS, AND FOUNDATIONS PER THE PLANS, DETAILS AND SIGN SCHEDULE.
  2. PROVIDE NEW CONDUIT AND TRANSFORMER SECONDARY CONDUCTORS.
  - ③ INSTALL NEW L-867 BASE FOR TRANSFORMER HOUSING ADJACENT TO SIGN BASE PER DETAIL 1/E3. EXTEND EDGE LIGHT CIRCUIT PER DETAIL 4/E2. THIS WORK SHALL BE SUBSIDIARY TO THE CONTRACT AND NO SEPARATE PAYMENT WILL BE MADE.
  - ④ NEW SIGN SITE TO BE DETERMINED BY AS-BUILT SURVEY.
  5. EXISTING ASPHALT PAVEMENT TO BE MAINTAINED AND WORKED AROUND.
  6. NEW AIRPORT SIGN WILL BE SERVED FROM THE SAME RUNWAY OR TAXIWAY LIGHT AS EXISTING AIRPORT SIGN. EXISTING HDPE CONDUIT TO BE REUSED UNDER EXISTING ASPHALT PAVEMENT. MAKE NEW HDPE-HDPE CONDUIT CONNECTION OUTSIDE LIMITS OF EXISTING ASPHALT PAVEMENT.
  7. SIGNS 1, 2, 42, 43, 46, AND 47 ARE ADDITIVE ALTERNATE #1.



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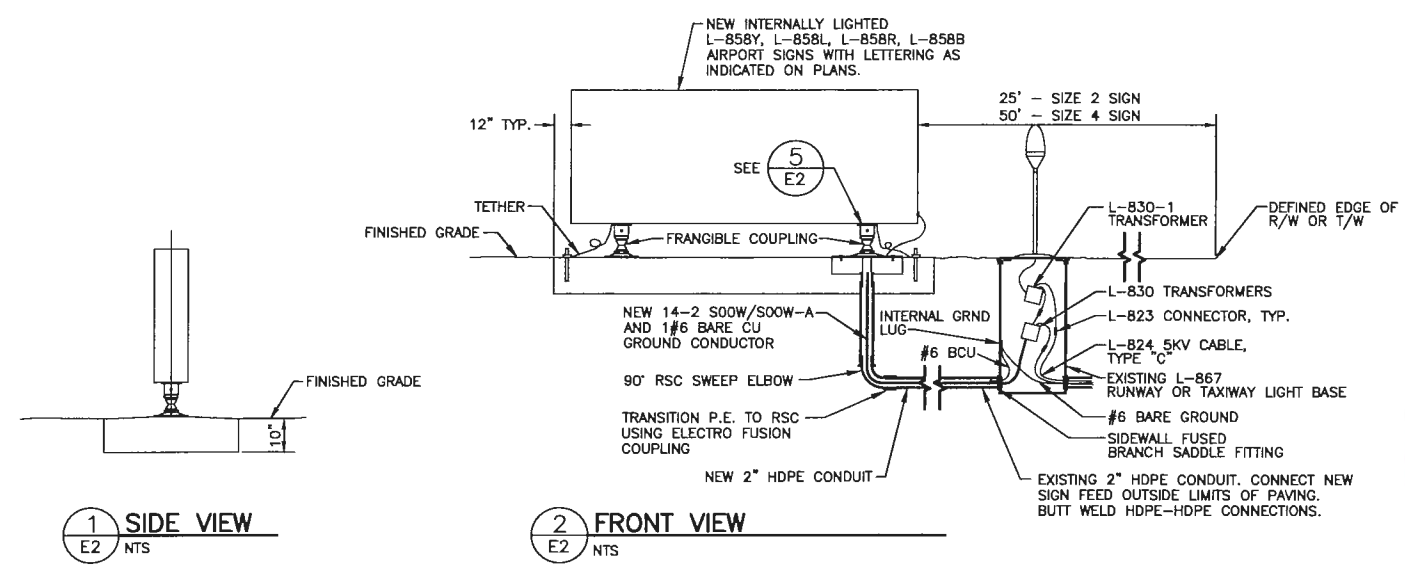
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KING SALMON AIRPORT  
 KING SALMON, ALASKA  
 RUNWAY AND TAXIWAY SIGNS  
 PROJECT No. 57093  
 AIP No. 3-02-0148-12-2011  
 SIGN PLAN

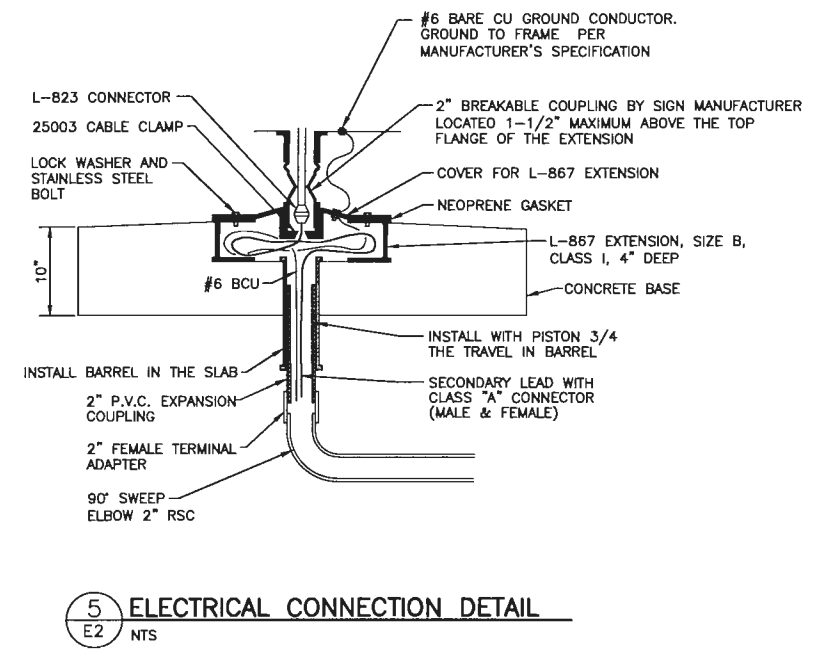
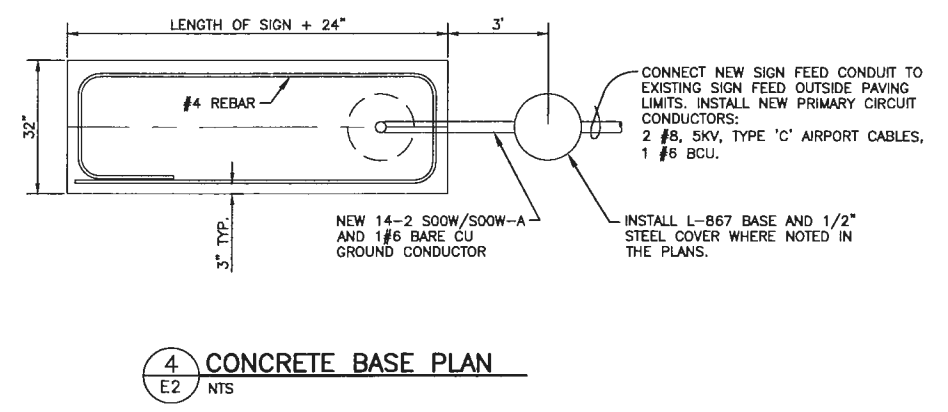
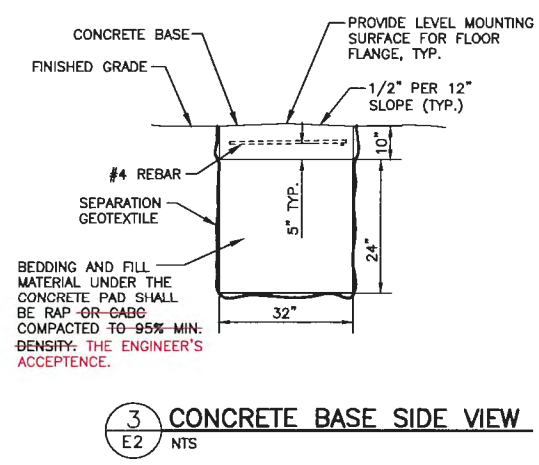
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 Designed By: DMH  
 Drawn By: DMH  
 Checked By: MLE



**L-858 SIGN DETAILS**



- NOTES:**
- ALL NEW SIGNS - LED STYLE 2 AND 3, CLASS 2, MODE 3.
  - NEW SIGNS AND TRANSFORMERS SHALL BE COMPATIBLE WITH EXISTING 6.6 A CIRCUITS.
  - ALL PRODUCTS AND COMPONENTS, INCLUDING SIGNS AND LIGHT ENGINES: NEW AND UNUSED, MOST CURRENT MANUFACTURED MODEL PRODUCT SUBMITTAL TO INCLUDE DATE OF MANUFACTURE.
  - PROVIDE NEW TRANSFORMERS, SECONDARY WIRING, AND GROUNDING. TRANSFORMER WATTAGE SIZE PER MANUFACTURER'S SPECIFICATION.
  - ATTACH SIGNS TO CONCRETE BASE IN ACCORDANCE WITH MANUFACTURE'S INSTRUCTION.
  - THE CONTRACTOR SHALL CERTIFY THE CONCRETE BASE IS CONSTRUCTED TO MEET THE SPECIFICATION P-610.
  - CONDUIT SHALL MEET THE SPECIFICATION L-110 AND SHALL BE SUBSIDIARY TO THE ITEM L-100n AND NO SEPARATE PAYMENT WILL BE MADE.
  - CABLE AND CONDUCTORS SHALL MEET THE SPECIFICATION L-108 AND SHALL BE SUBSIDIARY TO THE ITEM L-100n AND NO SEPARATE PAYMENT WILL BE MADE.
  - BEDDING, BACK FILL AND FINISH GRADE RESTORATION SHALL BE SUBSIDIARY TO THE CONTRACT AND NO SEPARATE PAYMENT WILL BE MADE.
  - ALL CABLES PASSING THROUGH BASE SHALL HAVE SUFFICIENT SLACK TO ALLOW CONNECTORS TO BE DRAWN 3' ABOVE FINISHED GRADE. ALL CABLES SHALL BE TAGGED.
  - SUSPEND TRANSFORMER AND CONNECTOR IN UPPER HALF OF BASE JUST UNDER LIGHT COVER USING INSULATION MATERIAL TO SUPPORT THEM.
  - EXISTING LIGHT BASES ARE FILLED WITH FREE FLOWING INSULATING MATERIAL. REPLACE THE INSULATING MATERIAL, AND PROVIDE NEW GASKET AND NEW GASKETED WASHERS. SEAL LIGHT BASE ASSEMBLIES WATERTIGHT PER SPECIFICATION L-100. THIS WORK SHALL BE SUBSIDIARY TO ITEM L-100n AND NO SEPARATE PAYMENT WILL BE MADE.

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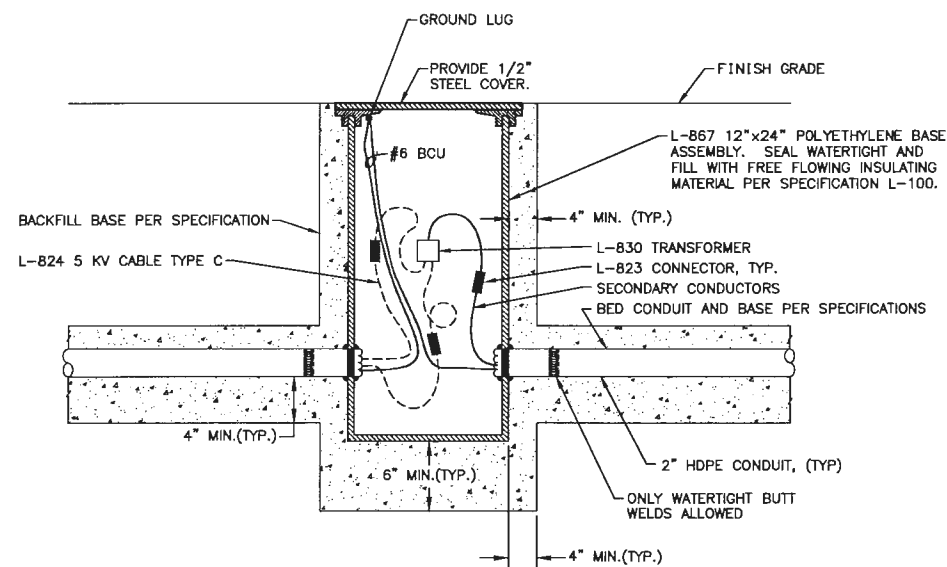
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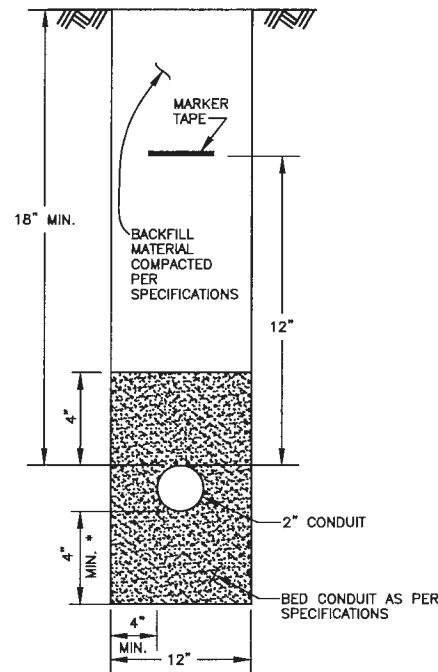
KING SALMON AIRPORT  
 KING SALMON, ALASKA  
 RUNWAY AND TAXIWAY SIGNS  
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 DETAILS

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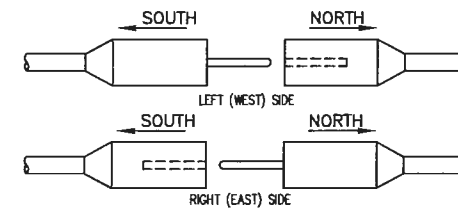
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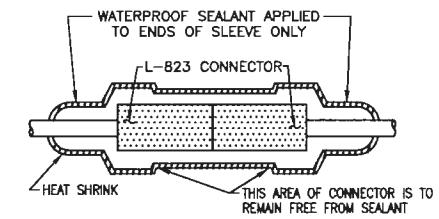
1 L-867 HANDHOLE DETAIL  
 E3 NTS



2 CONDUIT TRENCH DETAIL  
 E3 NTS



ORIENTATION OF L-823 CABLE CONNECTION IN LIGHT BASE DETAIL



3 L-823 CONNECTOR  
 E3 NTS

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STATE OF ALASKA  
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 Drawn By: DMH  
 Checked By: WJC

SIGN SCHEDULE													
	SIGN NUMBER	SIZE	STATUS	FACE NUMBER	TYPE	PURPOSE	LEGEND	LEGEND COLOR	FACE COLOR	STATIONING	REMARKS	SEE SHEET NOTE	
	ADD/ALT #1	1	2	NEW	1 2	L-858R L-858Y	MANDATORY INSTRUCTION SIGN ILS AREA BOUNDARY SIGN	ILS III	WHITE BLACK	RED YELLOW		EXISTING LOCATION	SEE NOTE 5, SHEET D1 AND NOTE 4, SHEET E1
	ADD/ALT #1	2	2	NEW	1 2	L-858R L-858Y	MANDATORY INSTRUCTION SIGN ILS AREA BOUNDARY SIGN	ILS III	WHITE BLACK	RED YELLOW		EXISTING LOCATION	SEE NOTE 5, SHEET D1 AND NOTE 4, SHEET E1
		3	2	NEW	1 2	L-858L L-858R	TAXIWAY LOCATION SIGN MANDATORY INSTRUCTION SIGN	M 12	YELLOW WHITE	BLACK RED		EXISTING LOCATION	SEE NOTE 5, SHEET D1 AND NOTE 4, SHEET E1
		4	2	NEW	1 2	L-858Y	RUNWAY EXIT SIGN	M BLANK	BLACK	YELLOW	R/W 12-30 STA. 12+61.74 (100' L)		
		5	2	NEW	1 2	L-858Y	RUNWAY EXIT SIGN	A BLANK	BLACK	YELLOW	R/W 12-30 STA. 9+10.50 (100' R)		
		6	2	EXISTING	1 1	L-858L L-858R	TAXIWAY LOCATION SIGN MANDATORY INSTRUCTION SIGN	A 12	YELLOW WHITE	BLACK RED	R/W 12-30 STA. 6+78.00 (250' R)	EXISTING SIGN TO REMAIN	
		7	2	NEW	1 2	L-858Y	RUNWAY EXIT SIGN	B BLANK	BLACK	YELLOW	R/W 12-30 STA. 12+56.07 (100' R)		
		8	2	EXISTING	1 1	L-858L L-858R	TAXIWAY LOCATION SIGN MANDATORY INSTRUCTION SIGN	B 12	YELLOW WHITE	BLACK RED	R/W 12-30 STA. 10+16.10 (250' R)	EXISTING SIGN TO REMAIN	
		9	2	NEW	1 1	L-858L L-858R	TAXIWAY LOCATION SIGN MANDATORY INSTRUCTION SIGN	N 18	YELLOW WHITE	BLACK RED	R/W 18-36 STA. 26+38.88 (248.45' R)	EXISTING LOCATION	SEE NOTE 5, SHEET D1 AND NOTE 4, SHEET E1
		10	2	NEW	1 2	L-858Y	RUNWAY EXIT SIGN	N BLANK	BLACK	YELLOW	R/W 18-36 STA. 28+11.39 (75' R)	CONDUIT STUB OUT FOR SIGN FEED LOCATED APPROXIMATELY 40 FEET UP STATION	
		11	4	NEW	1 2	L-858B L-858B	R/W DISTANCE REMAINING SIGN R/W DISTANCE REMAINING SIGN	7 1	WHITE WHITE	BLACK BLACK	R/W 12-30 STA. 21+45.78 (125' L)		
		12	4	NEW	1 2	L-858B L-858B	R/W DISTANCE REMAINING SIGN R/W DISTANCE REMAINING SIGN	6 2	WHITE WHITE	BLACK BLACK	R/W 12-30 STA. 31+45.78 (125' L)		
		13	2	NEW	1 2	L-858R	MANDATORY INSTRUCTION SIGN	18-36 BLANK	WHITE	RED	R/W 12-30 STA. 37+14.25 (100' L)		
		14	2	NEW	1 2	L-858R	MANDATORY INSTRUCTION SIGN	30-12	WHITE	RED	R/W 18-36 STA. 48+91.53 (75' L)		
		15	2	NEW	1 2	L-858R	MANDATORY INSTRUCTION SIGN	12-30	WHITE	RED	R/W 18-36 STA. 54+93.56 (75' R)		
		16	2	NEW	1 2	L-858R	MANDATORY INSTRUCTION SIGN	36-18	WHITE	RED	R/W 12-30 STA. 42+83.10 (100' R)		
		17	2	NEW	1 2	L-858Y	RUNWAY EXIT SIGN	C BLANK	BLACK	YELLOW	R/W 18-36 STA. 58+63.70 (75' L)		
		18	4	NEW	1 2	L-858B L-858B	R/W DISTANCE REMAINING SIGN R/W DISTANCE REMAINING SIGN	3 1	WHITE WHITE	BLACK BLACK	R/W 18-36 STA. 61+58.50 (100' R)		
		19	2	NEW	1 2	L-858Y	RUNWAY EXIT SIGN	C BLANK	BLACK	YELLOW	R/W 18-36 STA. 61+91.80 (75' L)		
		20	2	NEW	1 2 3	L-858R L-858Y L-858L	MANDATORY INSTRUCTION SIGN DESTINATION SIGN TAXIWAY LOCATION SIGN	36-18 GA C	WHITE BLACK YELLOW	RED YELLOW BLACK	T/W 'C' STA. 502+98.67 (70' R)		
		21		NOT USED									
		22	2	NEW	1 2 3	L-858L L-858Y L-858Y	TAXIWAY LOCATION SIGN TAXIWAY DIRECTION SIGN DESTINATION SIGN	C D GA	YELLOW BLACK BLACK	BLACK YELLOW YELLOW	T/W 'C' STA. 503+48.83 (62.5' L)		

**SIGN NOTES:**

1. SIGNS TO BE INSTALLED SO THAT THE FACE IS PERPENDICULAR TO THE CENTERLINE OF RUNWAY OR TAXIWAY.
2. STATION AND OFFSET REFER TO THE EDGE OF THE SIGN NEAREST THE RUNWAY OR TAXIWAY. SEE DETAIL 2/EZ.
3. OFFSETS LISTED IN THE SIGN SCHEDULE ARE FROM THE CENTERLINE OF THE RUNWAY OR TAXIWAY.

AS-BUILT 1/2015 16 OF 17

BY	DATE	REVISION
STP	01/2015	AS-BUILT

STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION  
 AND PUBLIC FACILITIES  
 CENTRAL REGION

**KING SALMON AIRPORT**  
 KING SALMON, ALASKA  
 RUNWAY AND TAXIWAY SIGNS  
 PROJECT No. 57093  
 AIP No. 3-02-0148-12-2011  
 SIGN SCHEDULE

DATE: 3/11/2014  
 SHEET: E4 OF 17  
 AS-BUILT SHEET:

Date Rechecked: 3/10/2014  
 Location: King Salmon Airport  
 File Path and Name: G:\07041KSA King Salmon Airport\Signs 2013\Work\0-TLB-AK-LIGHTING.dwg  
 Script File:  
 DWM File No: 234-26  
 Designed By: DWH  
 Drawn By: DWH  
 Checked By: MLE

SIGN SCHEDULE												
SIGN NUMBER	SIZE	STATUS	FACE NUMBER	TYPE	PURPOSE	LEGEND	LEGEND COLOR	FACE COLOR	STATIONING	REMARKS	SEE SHHET NOTE	
23	2	NEW	1 2	L-858Y L-858Y	TAXIWAY DIRECTION SIGN DESTINATION SIGN	← D ↑ CARGO	BLACK BLACK	YELLOW YELLOW	T/W 'C' STA. 507+13.09 (70' R)			
24		NOT USED										
25	2	NEW	1 2 3	L-858L L-858R L-858Y	TAXIWAY LOCATION SIGN MANDATORY INSTRUCTION SIGN DESTINATION SIGN	E 12-30 ↑ CARGO	YELLOW WHITE BLACK	BLACK RED YELLOW	T/W 'E' STA. 525+28.56 (62.5' L)			
26	2	NEW	1 2	L-858Y	RUNWAY EXIT SIGN	E → BLANK	BLACK	YELLOW	R/W 12-30 STA. 64+78.06 (100' R)			
27	2	NEW	1 2	L-858Y	TAXIWAY DIRECTION SIGN	C → BLANK	BLACK	YELLOW	T/W 'E' STA. 521+76.39 (62.5' R)			
28	2	NEW	1 2	L-858Y	RUNWAY EXIT SIGN	← E BLANK	BLACK	YELLOW	R/W 12-30 STA. 67+73.10 (100' R)			
29	4	NEW	1 2	L-858B L-858B	R/W DISTANCE REMAINING SIGN R/W DISTANCE REMAINING SIGN	1 3	WHITE WHITE	BLACK BLACK	R/W 18-36 STA. 41+58.50 (100' R)			
30	4	NEW	1 2	L-858B L-858B	R/W DISTANCE REMAINING SIGN R/W DISTANCE REMAINING SIGN	4 4	WHITE WHITE	BLACK BLACK	R/W 12-30 STA. 51+45.78 (125' L)			
31	4	NEW	1 2	L-858B L-858B	R/W DISTANCE REMAINING SIGN R/W DISTANCE REMAINING SIGN	3 5	WHITE WHITE	BLACK BLACK	R/W 12-30 STA. 61+45.78 (125' L)			
32	4	NEW	1 2	L-858B L-858B	R/W DISTANCE REMAINING SIGN R/W DISTANCE REMAINING SIGN	2 6	WHITE WHITE	BLACK BLACK	R/W 12-30 STA. 71+45.78 (125' L)			
33	4	NEW	1 2	L-858B L-858B	R/W DISTANCE REMAINING SIGN R/W DISTANCE REMAINING SIGN	1 7	WHITE WHITE	BLACK BLACK	R/W 12-30 STA. 81+45.78 (125' L)			
34		NOT USED										
35		NOT USED										
36	2	NEW		L-858R	MANDATORY INSTRUCTION SIGN	36-18	WHITE	RED	R/W 12-30 STA. 42+83.10 (100' L)			
37	2	NEW		L-858R	MANDATORY INSTRUCTION SIGN	18-36	WHITE	RED	R/W 12-30 STA. 37+14.25 (100' R)			
38		NOT USED										
39	4	NEW	1 2	L-858B L-858B	R/W DISTANCE REMAINING SIGN R/W DISTANCE REMAINING SIGN	5 3	WHITE WHITE	BLACK BLACK	R/W 12-30 STA. 41+45.78 (125' L)			
40	2	NEW	1 2	L-858Y	RUNWAY EXIT SIGN	← G BLANK	BLACK	YELLOW	R/W 18-36 STA. 72+89.81 (75' L)			
41	2	NEW	1 2	L-858L L-858R	TAXIWAY LOCATION SIGN MANDATORY INSTRUCTION	G 36	WHITE BLACK	RED YELLOW	R/W 18-36 STA. 74+04.83 (250' L)			
ADD/ALT #1	4	NEW	1 2	L-858B L-858B	ARREST BARRIER MARKER ARREST BARRIER MARKER	● ●	YELLOW YELLOW	BLACK BLACK	R/W 12-30 STA. 18+80.65 (125' L)		SEE NOTE 3, SHEET E1	
ADD/ALT #1	4	NEW	1 2	L-858B L-858B	ARREST BARRIER MARKER ARREST BARRIER MARKER	● ●	YELLOW YELLOW	BLACK BLACK	R/W 12-30 STA. 18+80.65 (125' R)		SEE NOTE 3, SHEET E1	
	4	EXISTING	1 2	L-858B L-858B	ARREST BARRIER MARKER ARREST BARRIER MARKER	● ●	YELLOW YELLOW	BLACK YELLOW	R/W 12-30 STA. 50+55.67 (125' L)			
	4	EXISTING	1 2	L-858B L-858B	ARREST BARRIER MARKER ARREST BARRIER MARKER	● ●	YELLOW YELLOW	BLACK YELLOW	R/W 12-30 STA. 50+55.67 (125' R)			
ADD/ALT #1	4	NEW	1 2	L-858B L-858B	ARREST BARRIER MARKER ARREST BARRIER MARKER	● ●	YELLOW YELLOW	BLACK YELLOW	R/W 12-30 STA. 82+55.19 (125' L)		SEE NOTE 3, SHEET E1	
ADD/ALT #1	4	NEW	1 2	L-858B L-858B	ARREST BARRIER MARKER ARREST BARRIER MARKER	● ●	YELLOW YELLOW	BLACK YELLOW	R/W 12-30 STA. 82+55.19 (125' R)		SEE NOTE 3, SHEET E1	

**SIGN NOTES:**

- SIGNS TO BE INSTALLED SO THAT THE FACE IS PERPENDICULAR TO THE CENTERLINE OF RUNWAY OR TAXIWAY.
- STATION AND OFFSET REFER TO THE EDGE OF THE SIGN NEAREST THE RUNWAY OR TAXIWAY. SEE DETAIL 2/E2.
- OFFSETS LISTED IN THE SIGN SCHEDULE ARE FROM THE CENTERLINE OF THE RUNWAY OR TAXIWAY.

BY	DATE	REVISION
SJP	01/2015	AS-BUILT

STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION  
 AND PUBLIC FACILITIES  
 CENTRAL REGION

KING SALMON AIRPORT  
 KING SALMON, ALASKA  
 RUNWAY AND TAXIWAY SIGNS  
 PROJECT No. 57093  
 AIP No. 3-02-0148-12-2011  
 SIGN SCHEDULE

DATE: 3/11/2014  
 SHEET: E5 OF 17  
 AS-BUILT SHEET:

AS-BUILT 1/2015 17 OF 17