

PATH:
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Tue, 03/Oct/06 02:21PM Ischneller
TAB: G10

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

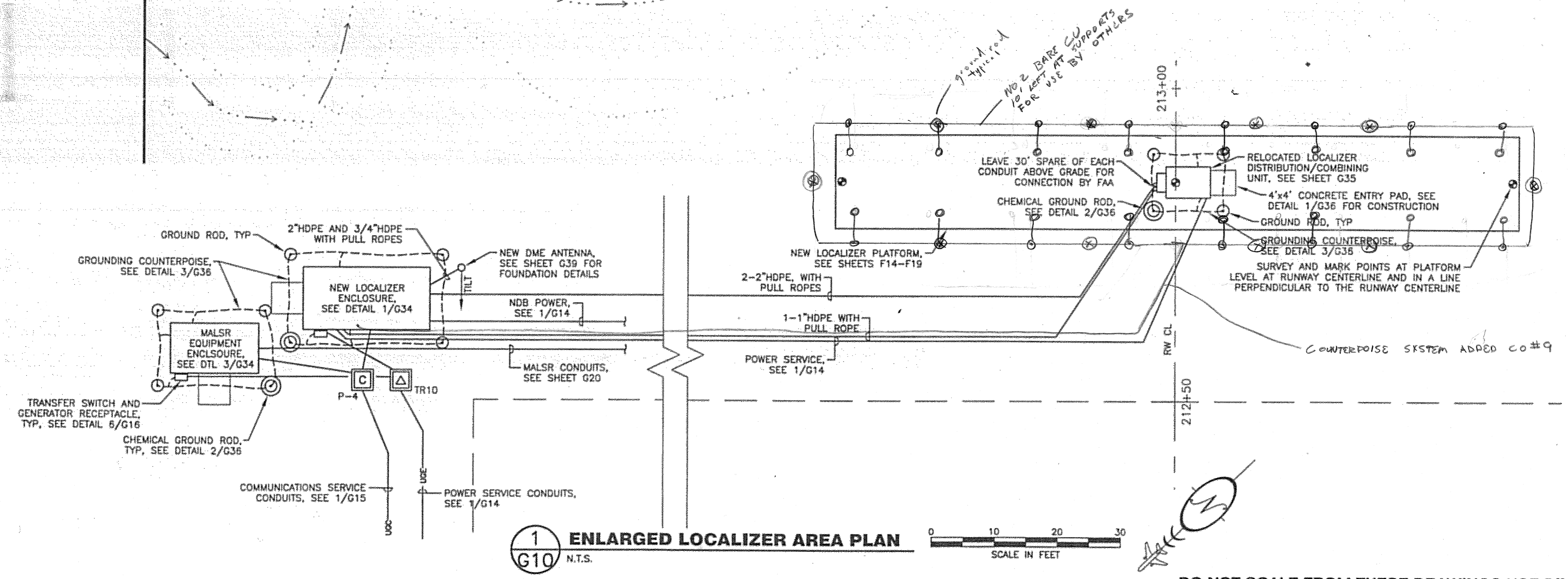
No.	DATE	DESCRIPTION

KETCHIKAN AIRPORT
 RUNWAY SAFETY AREA EXPANSION
 & RUNWAY OVERLAY
 PROJECT NO. 68306

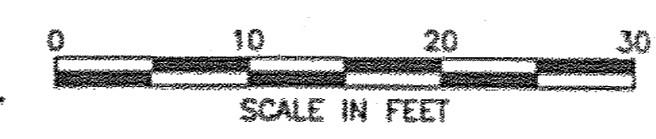
ELECTRICAL LAYOUT

SHEET NOTES:

1. INSTALL IN HDPE LAID ON SURFACE, REMOVE AFTER CONNECTION OF PERMANENT CONDUCTORS.
2. EXTEND DRAIN CONDUIT TO DAYLIGHT, FIELD VERIFY EXACT LENGTH, SEE DETAIL 4/G12.



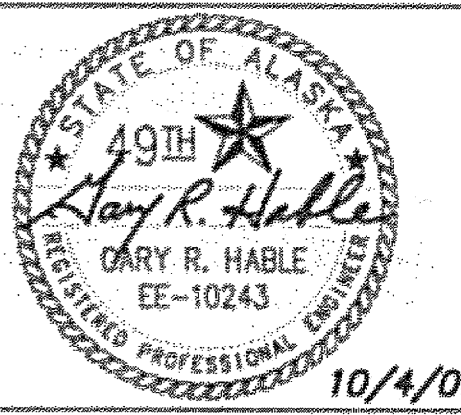
1
G10 ENLARGED LOCALIZER AREA PLAN
N.T.S.



DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

PREPARED BY: USKH INC.

CHECKED BY: GRH



DESIGNED BY: LPS

DRAWN BY: LPS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES
DIVISION-SOUTHEAST REGION

ELECTRICAL LAYOUT

PROJECT DESIGNATION
AIP NO. 3-02-0144-1606

STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
G10	131

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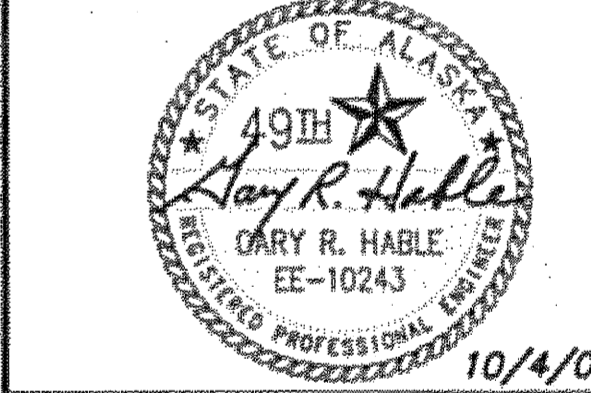
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KETCHIKAN AIRPORT
 RUNWAY SAFETY AREA EXPANSION
 & RUNWAY OVERLAY
 PROJECT NO. 68306

ELECTRICAL & LIGHTING DETAILS

PREPARED BY: USKH INC.

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DESIGNED BY: LPS

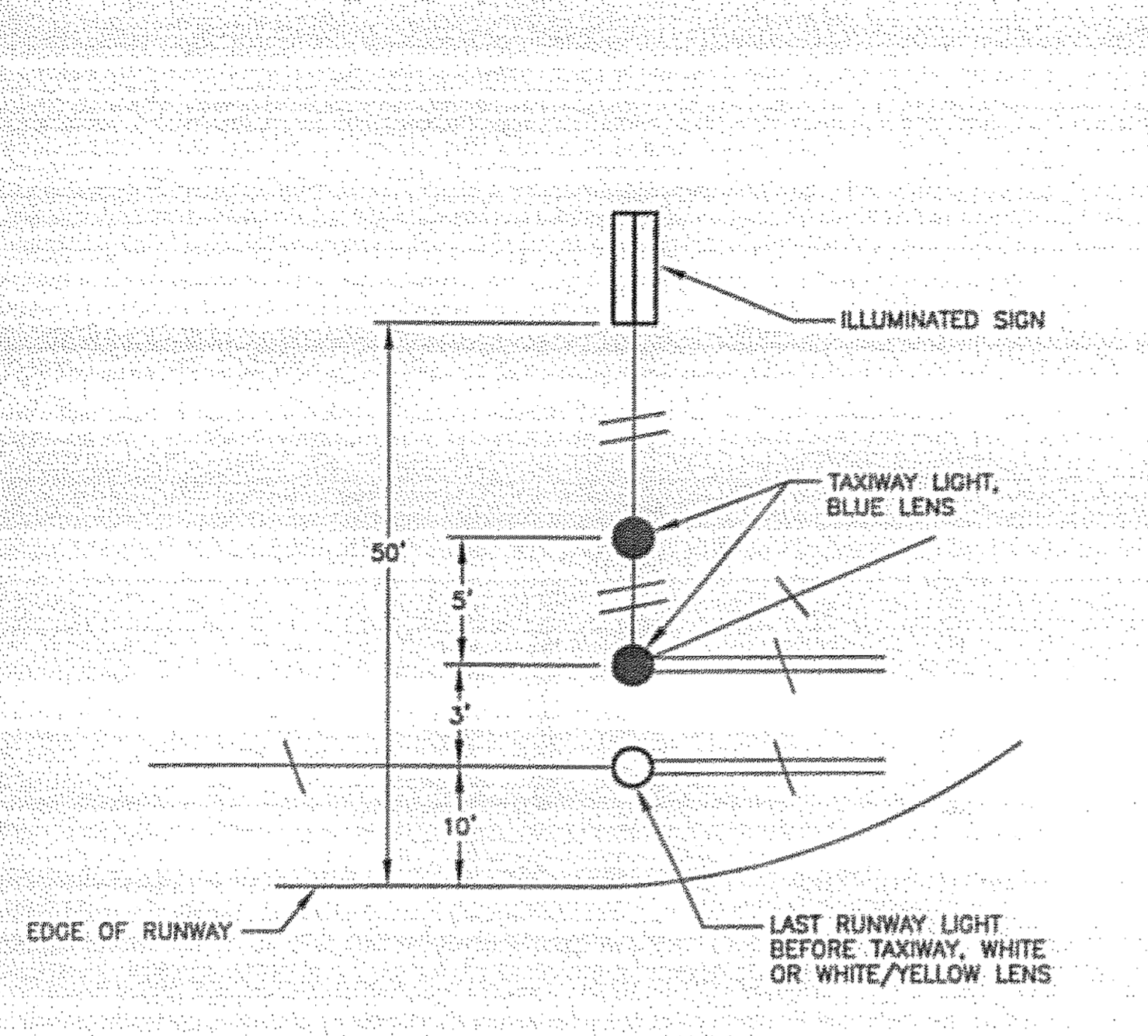
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 DEPARTMENT OF TRANSPORTATION
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 DIVISION - SOUTHEAST REGION

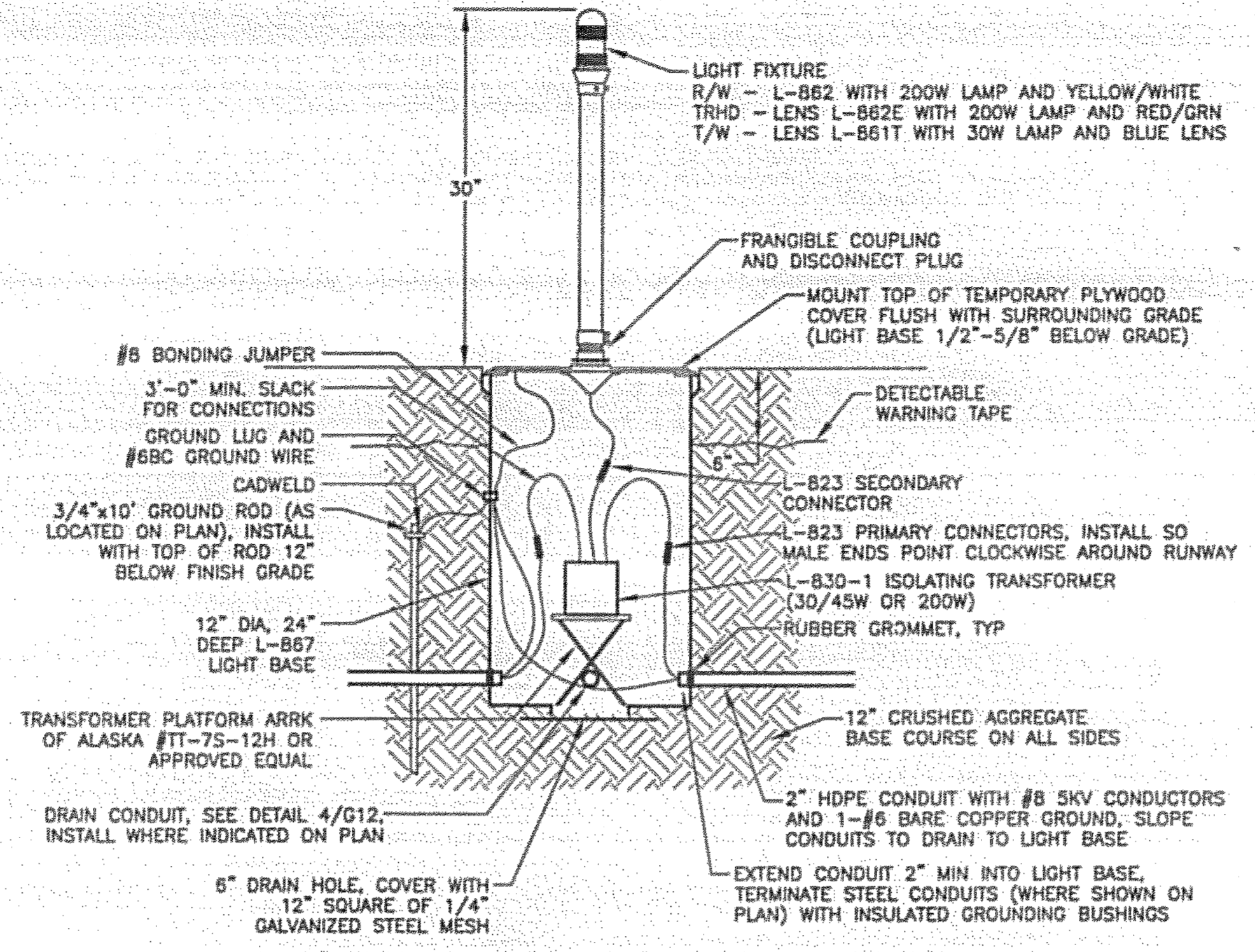
ELECTRICAL & LIGHTING DETAILS

PROJECT DESIGNATION
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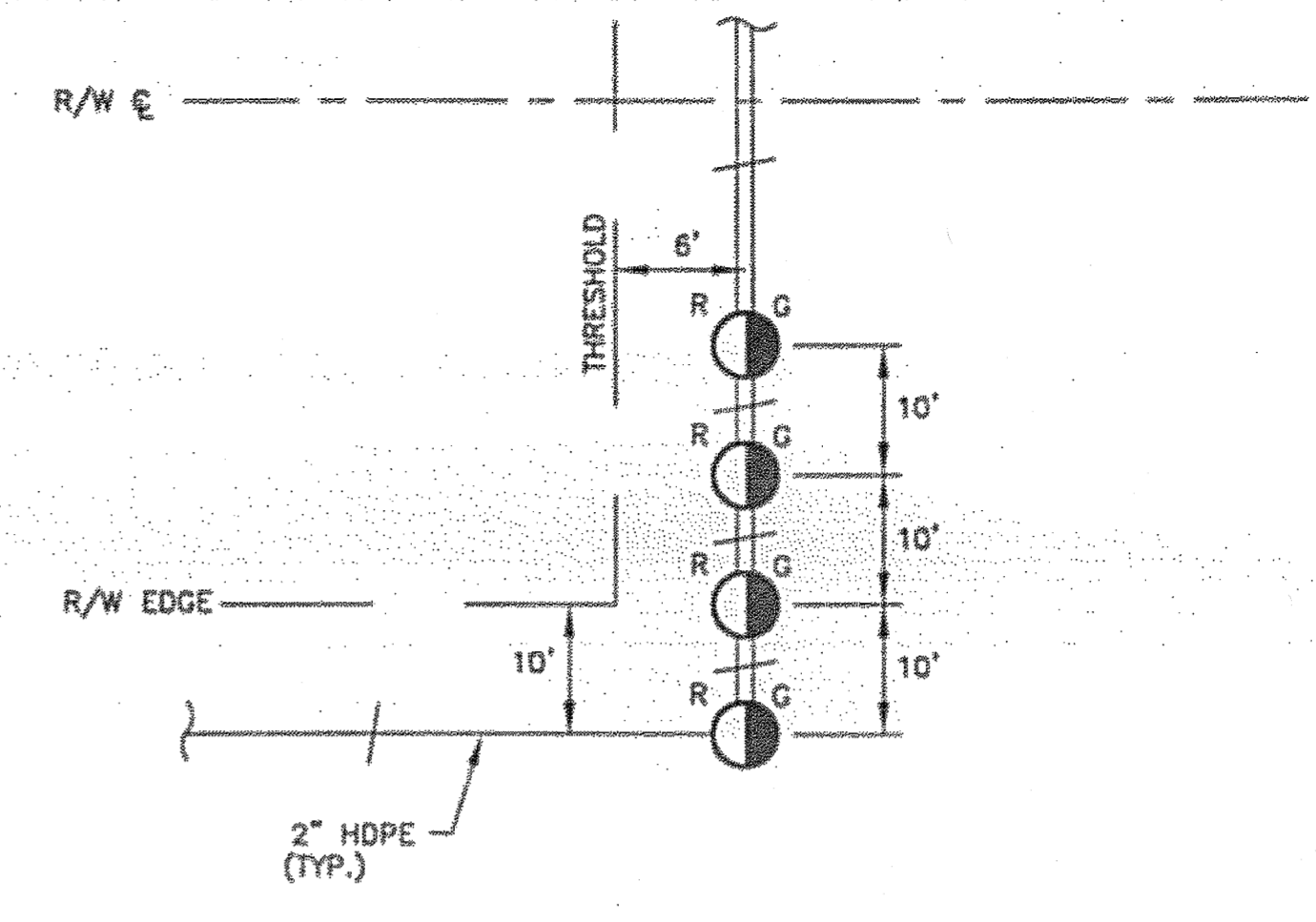
STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
G11	131



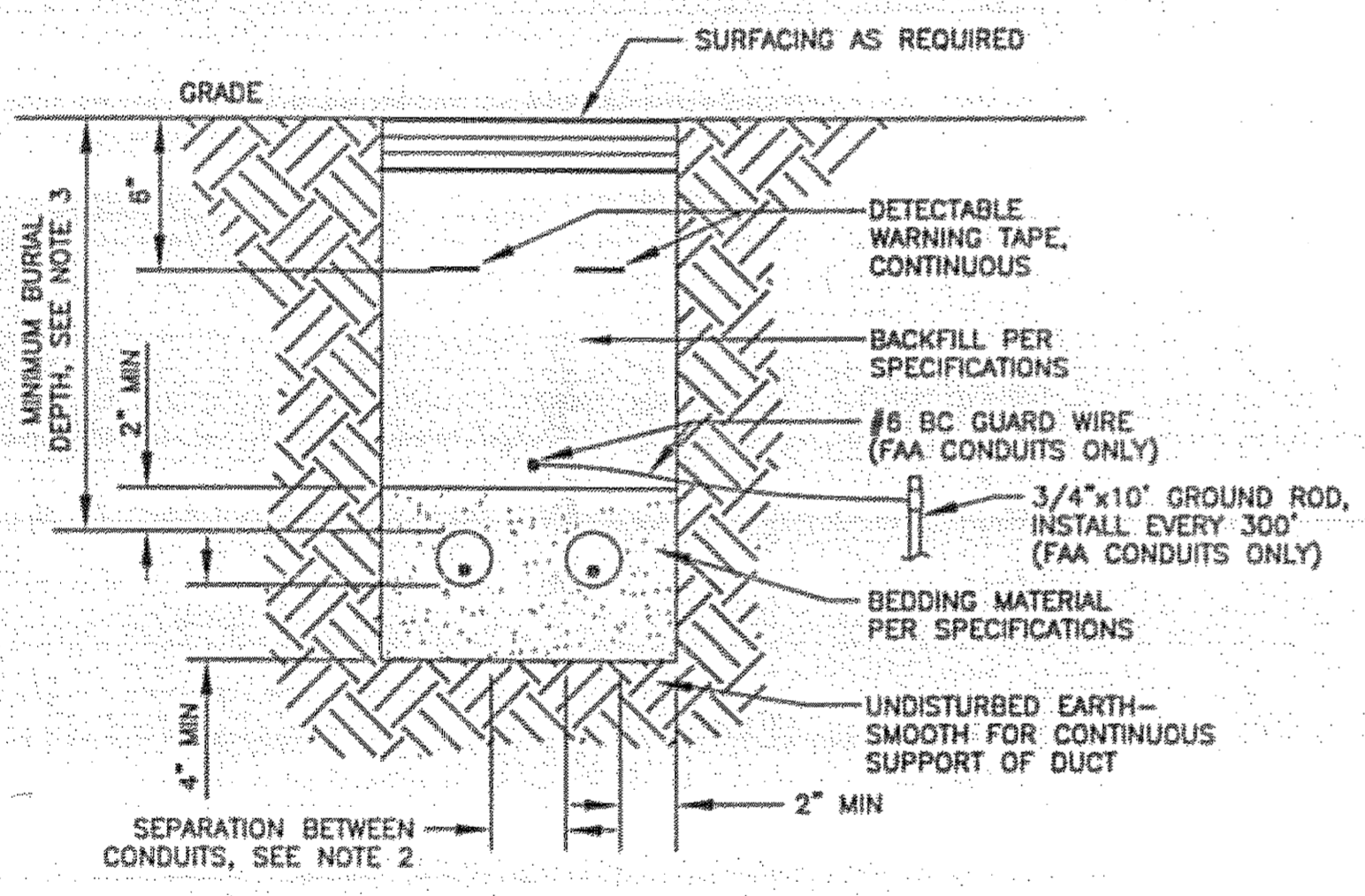
3 TAXIWAY INTERSECTION DETAIL
 G11 N.T.S.



2 BASE MOUNTED LIGHT DETAIL
 G11 N.T.S.

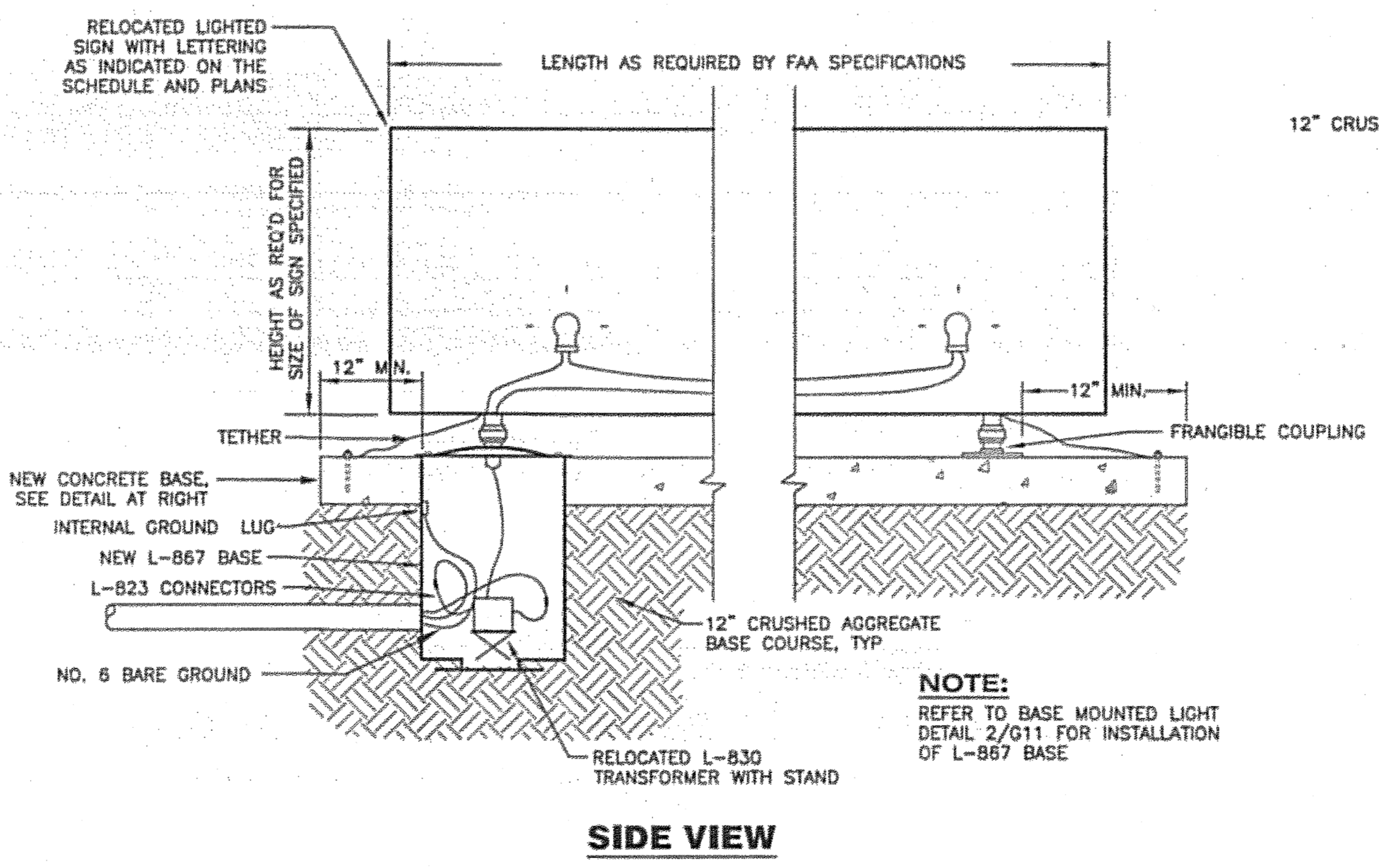


1 THRESHOLD LIGHTING DETAIL
 G11 N.T.S.

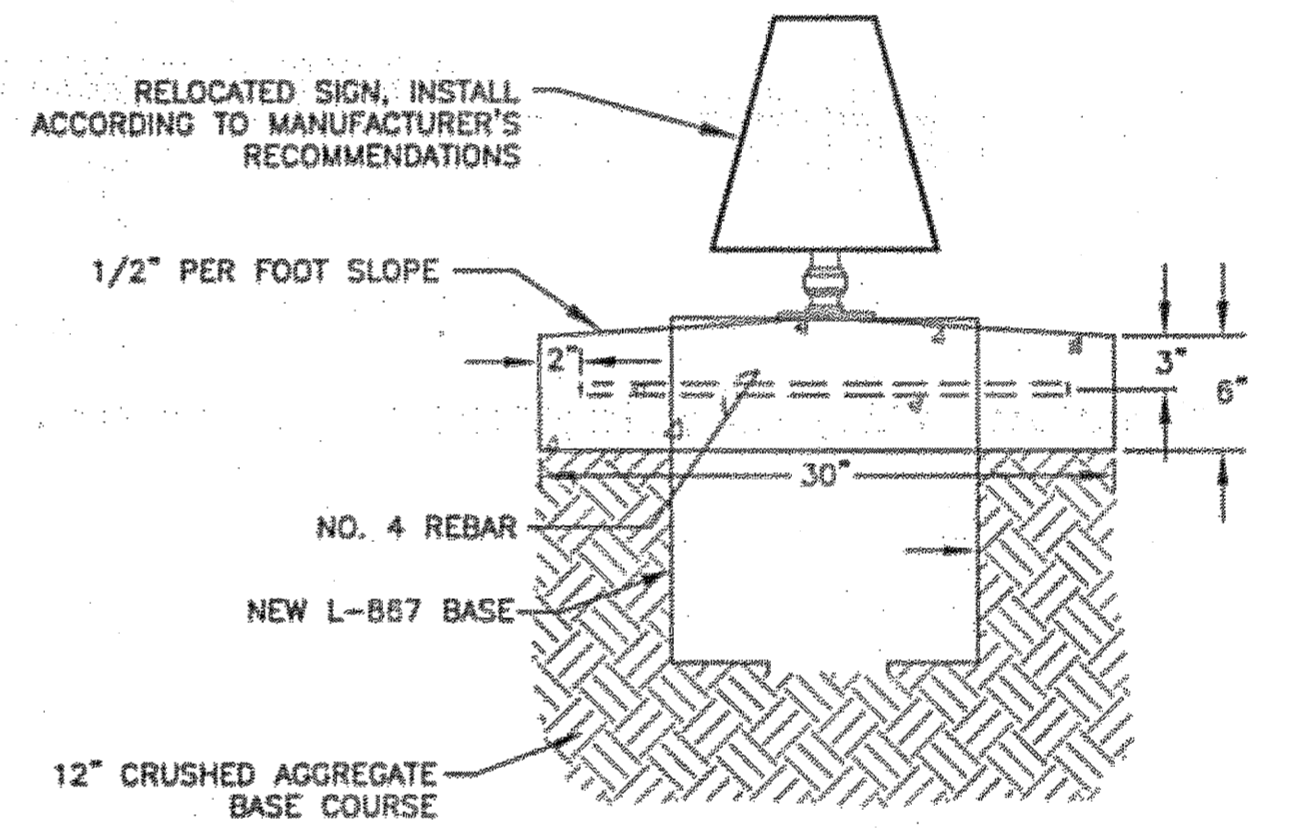


- NOTES:**
1. WIDTH OF TRENCH AND NUMBER OF CONDUITS PER TRENCH DETERMINED IN FIELD (2 SHOWN)
 2. SEPARATION BETWEEN CONDUITS SHALL BE AS FOLLOWS:
 -CONDUITS OF SAME SYSTEM - 2"
 -AIRPORT LIGHTING AND FAA CONDUITS - 12" MIN
 -PRIMARY POWER AND ANY OTHER CONDUIT - 18" MIN
 -TELECOM SERVICE AND ANY OTHER CONDUIT - 18" MIN
 3. MINIMUM BURIAL DEPTH SHALL BE AS FOLLOWS:
 -AIRPORT LIGHTING CONDUITS - 18"
 -FAA CONDUITS - 24"
 -PRIMARY POWER - 36"
 -TELECOM SERVICE - 36"

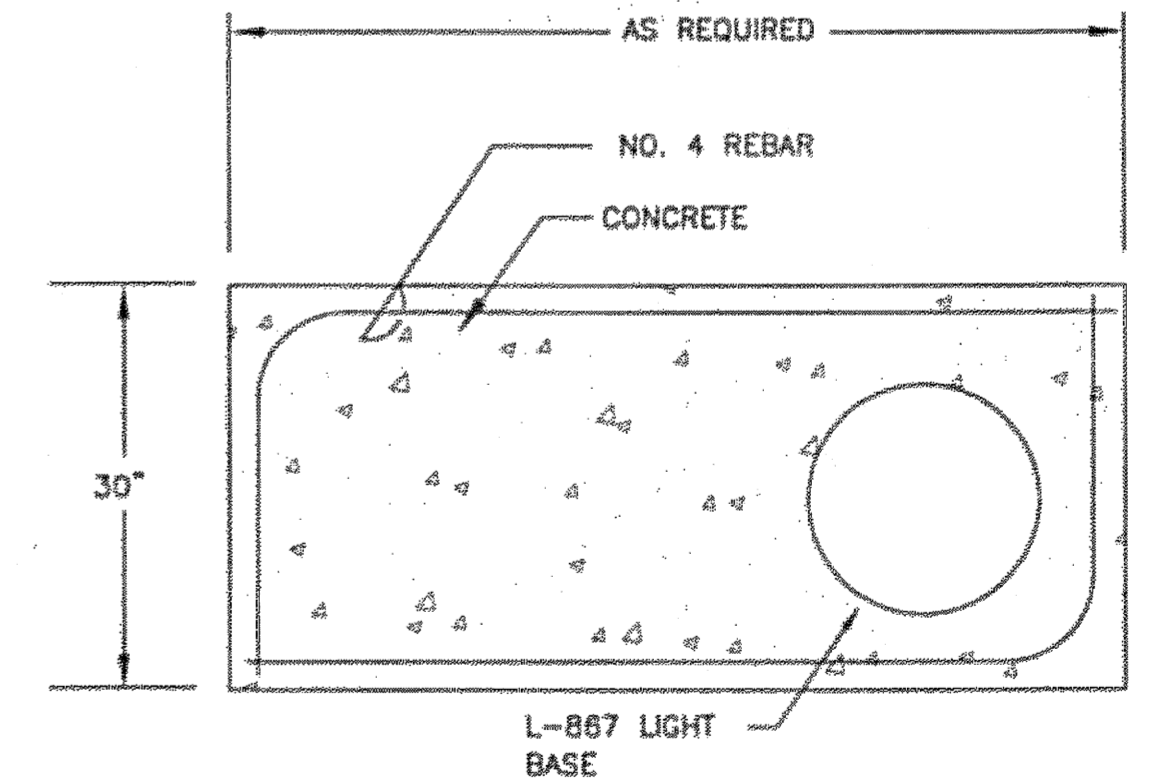
5 TYPICAL TRENCH DETAIL
 G11 N.T.S.



4 ILLUMINATED SIGN DETAILS
 G11 N.T.S.



END VIEW



TOP VIEW

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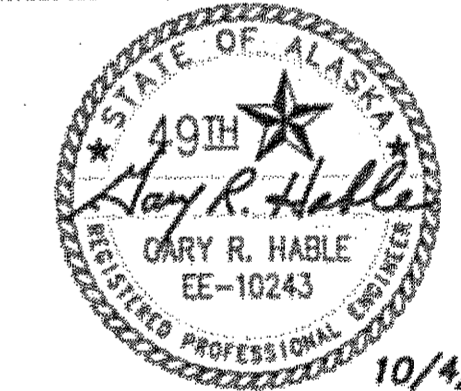
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 & RUNWAY OVERLAY
 PROJECT NO. 68306

ELECTRICAL & LIGHTING DETAILS

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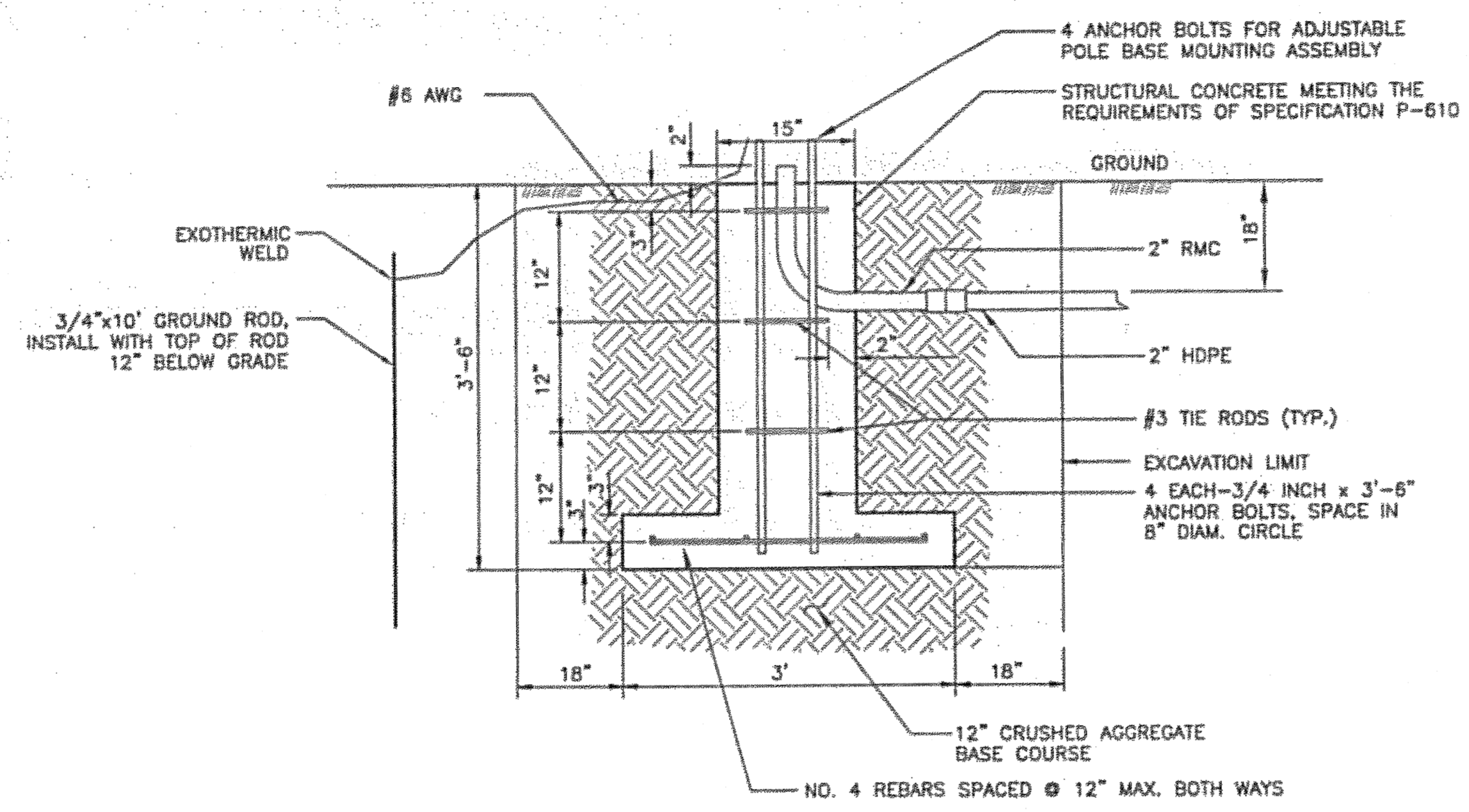
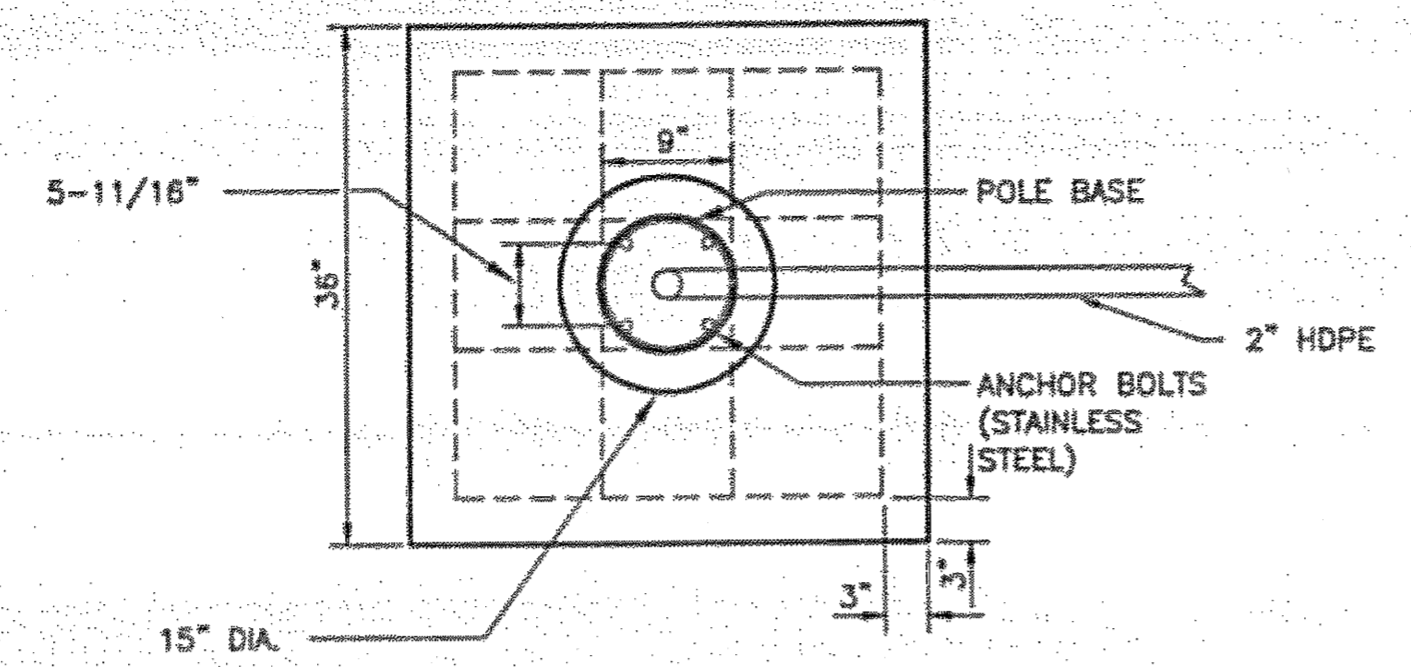
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STATE OF ALASKA
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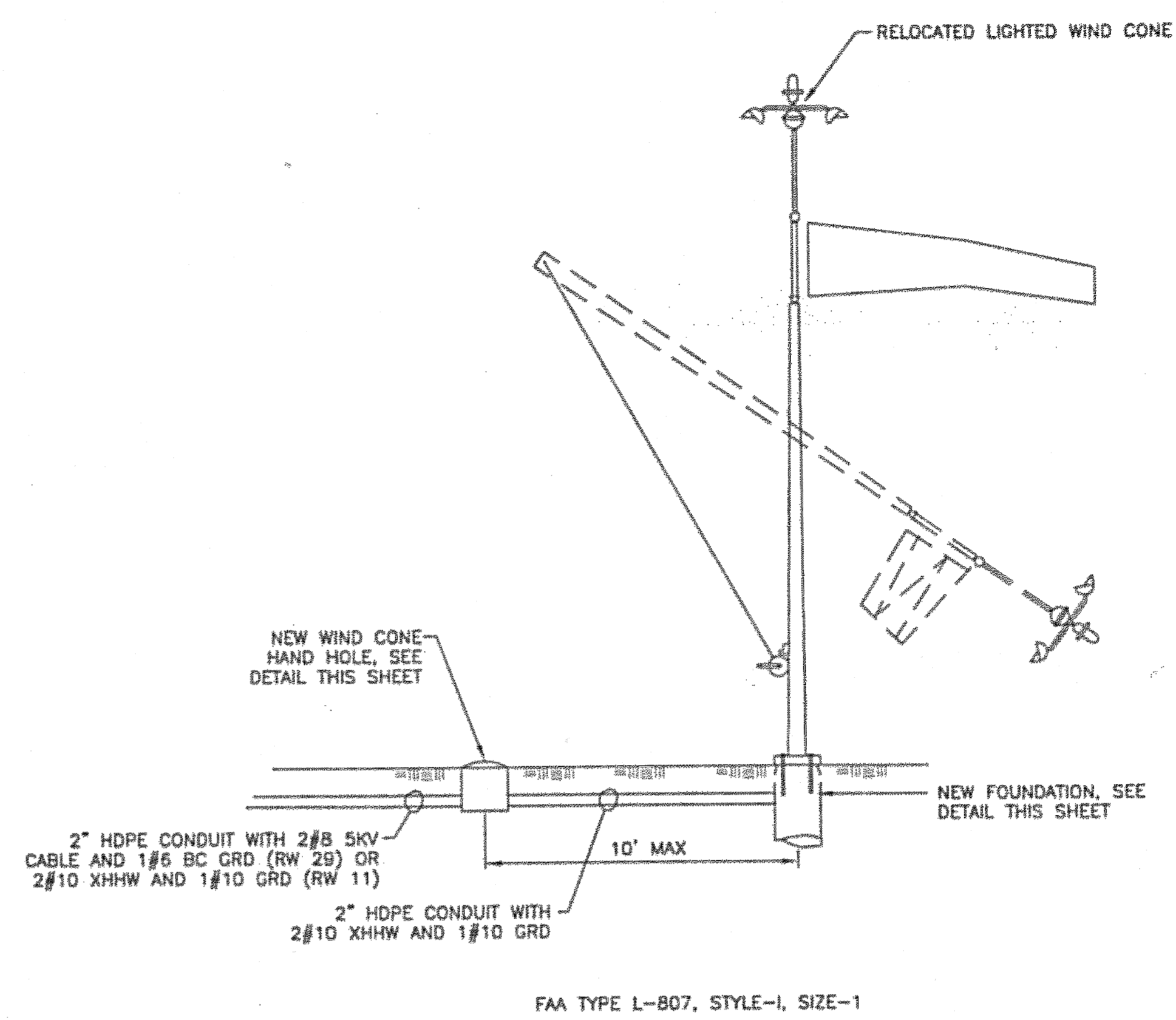
ELECTRICAL & LIGHTING DETAILS

PROJECT DESIGNATION
 AIP NO. 3-02-0144-1606

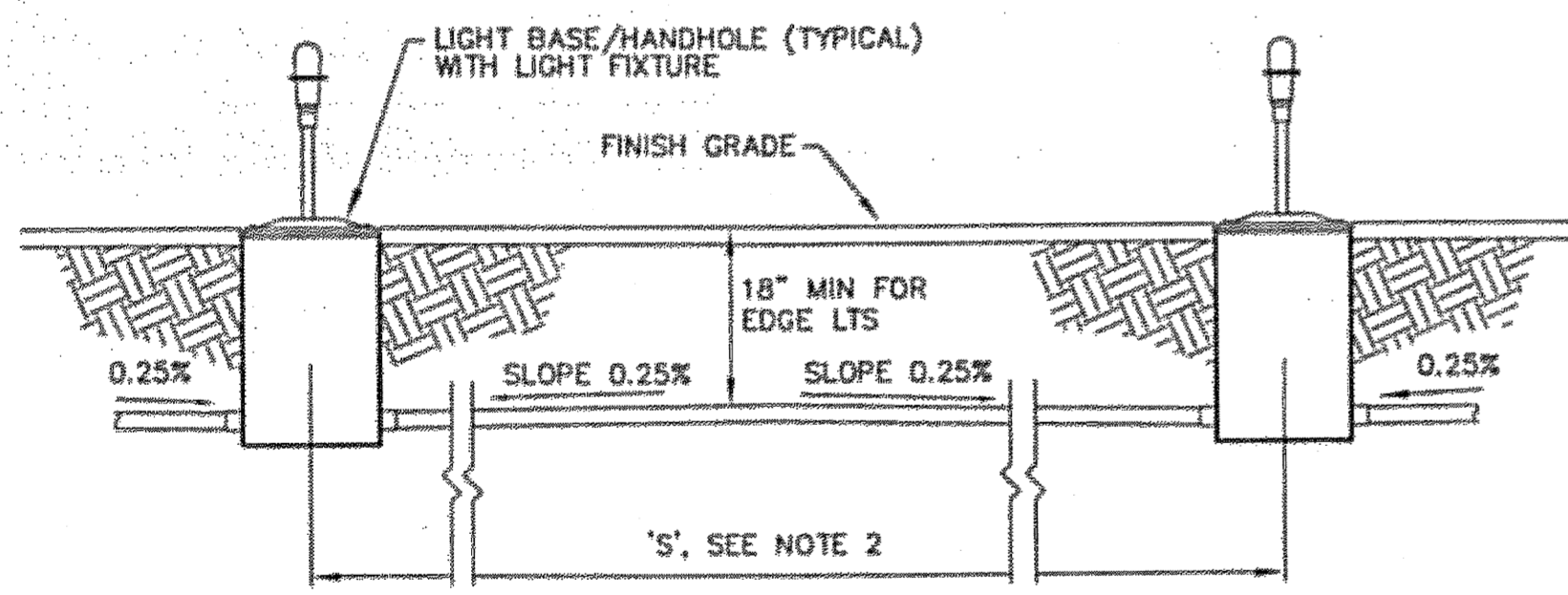
STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
G12	131



2 WIND CONE FOUNDATION DETAILS
 G12 N.T.S.

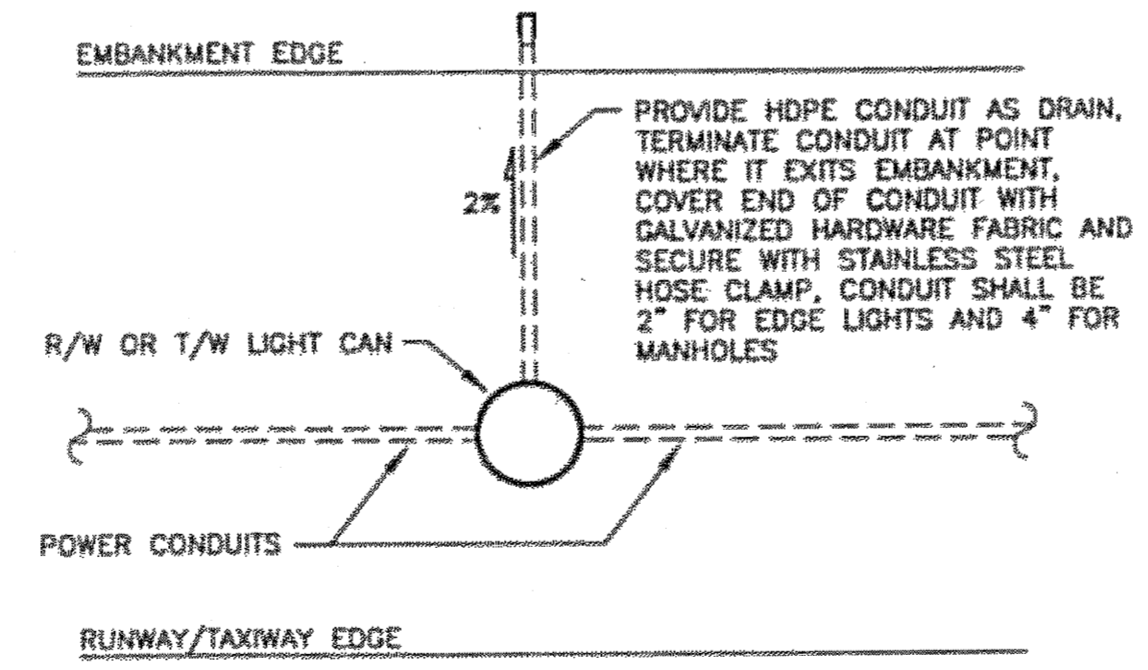


1 LIGHTED WIND CONE ASSEMBLY
 G12 N.T.S.

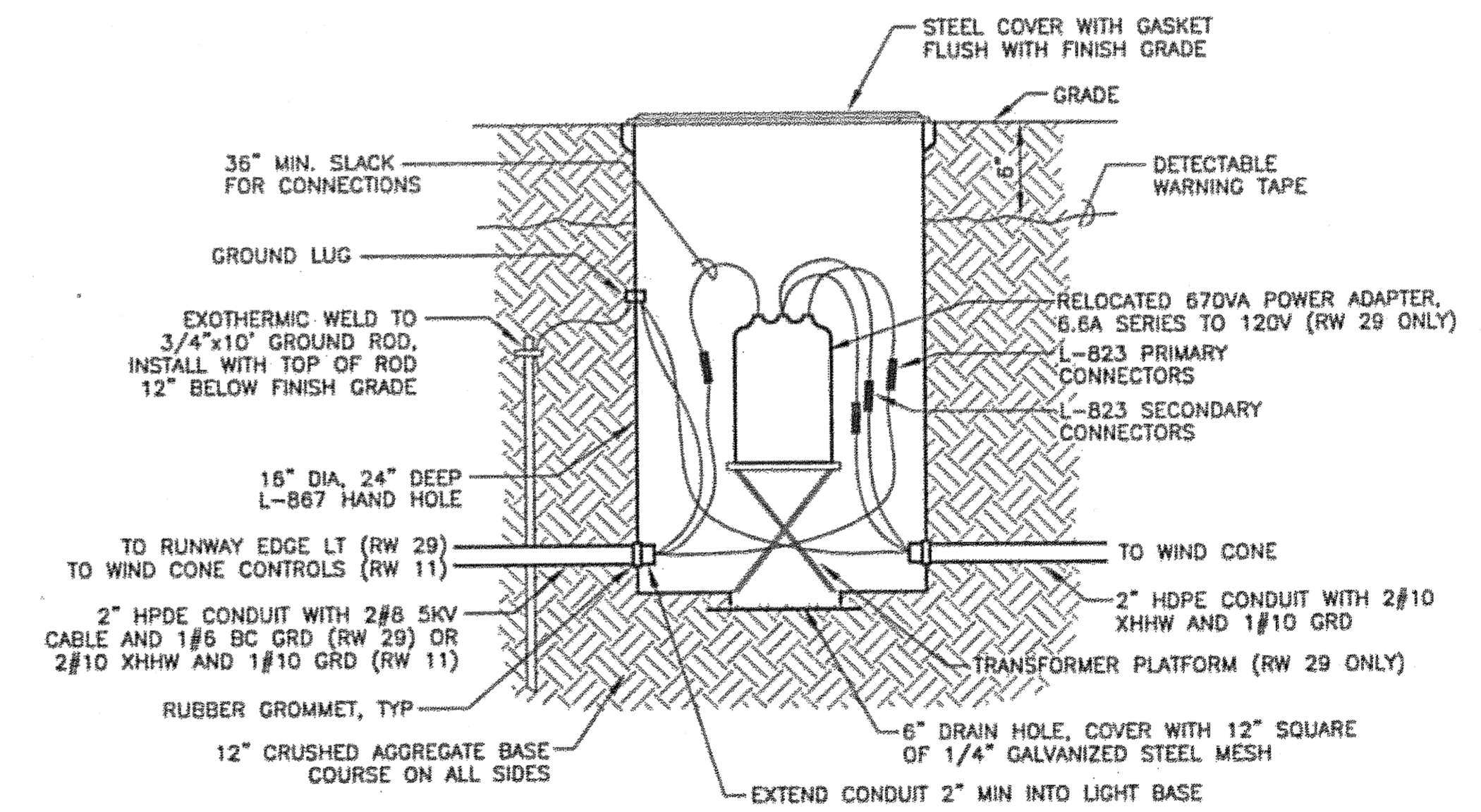


- NOTES:**
- CONDUIT SHALL BE INSTALLED WITH CROWN TO DRAIN TO LIGHT BASES AS SHOWN.
 - IF 'S' IS LESS THAN 20', OR IF 0.25% SLOPE CAN BE MAINTAINED IN ONE DIRECTION DUE TO SLOPE OF GRADE, LAY CONDUIT STRAIGHT WITHOUT CROWN BETWEEN BASES/HANDHOLES.
 - A THIRD HUB FOR A CONDUIT DRAIN SHALL BE PROVIDED WHERE SHOWN ON PLANS.

5 TYPICAL INTERCONNECTION DETAIL
 G12 N.T.S.



4 DRAIN CONDUIT DETAIL
 G12 N.T.S.



- NOTES:**
- AT RW 11, ROUTE #10 CONDUCTORS STRAIGHT THROUGH HANDHOLE WITH NO SPLICES, LEAVE 36" SLACK CONDUCTOR COILED IN HANDHOLE.
 - AT RW 11, RELOCATE EXISTING WIND CONE DISCONNECT AND CONTROLLER (WITH PHOTOCELL) TO NEW SUPPORT STRUCTURE AS SHOWN ON Q31. RECONNECT EXISTING CONTROLLER TO MATCH EXISTING CONFIGURATION.

3 WIND CONE HAND HOLE
 G12 N.T.S.

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

SIGN SCHEDULE													
NUM	SIDE	PANEL	LEGEND	TYPE	LEGEND COLOR	FACE COLOR	STATION	OFFSET	SIZE	STYLE	CLASS	MODE	REMARKS
S1	1	1	6	L-858B	WHITE	BLACK	140+00.0	134.1	LT	-	-	-	REINSTALL
	2	1	1	L-858B	WHITE	BLACK							EXISTING SIGN
S2	1	1	5	L-858B	WHITE	BLACK	150+00.0	134.1	LT	-	-	-	REINSTALL
	2	1	2	L-858B	WHITE	BLACK							EXISTING SIGN
S3	1	1	4	L-858B	WHITE	BLACK	160+00.0	134.1	LT	-	-	-	REINSTALL
	2	1	3	L-858B	WHITE	BLACK							EXISTING SIGN
S4	1	1	3	L-858B	WHITE	BLACK	170+00.0	134.1	LT	-	-	-	REINSTALL
	2	1	4	L-858B	WHITE	BLACK							EXISTING SIGN
S5	1	1	2	L-858B	WHITE	BLACK	180+00.0	134.1	LT	-	-	-	REINSTALL
	2	1	5	L-858B	WHITE	BLACK							EXISTING SIGN
S6	1	1	1	L-858B	WHITE	BLACK	190+00.0	134.1	LT	-	-	-	REINSTALL
	2	1	6	L-858B	WHITE	BLACK							EXISTING SIGN
S7	1	-	-	-	-	-	196+09.8	119.2	LT	5	-	-	REINSTALL EXISTING SIGN WITH NEW PANELS, FIELD VERIFY SIZE PRIOR TO ORDERING PANELS

STATION AND OFFSET INDICATED IS AT CENTER OF SIGN DEPTH ON END NEAREST TO EDGE OF TAXIWAY UNLESS OTHERWISE INDICATED.
 NOTE: TRANSFORMERS SHALL BE SIZED AS RECOMMENDED BY THE SIGN MANUFACTURER.

TAXIWAY EDGE LIGHT SCHEDULE								
NUM	LENS COLOR	TYPE	WATTAGE		STATION	OFFSET	REMARKS	
			LAMP	XFMR				
E1	B	L-861T	30	30/45	127+49.2	203.8	LT	RELOCATED
E2	B	L-861T	30	30/45	127+49.2	148.4	LT	RELOCATED
E3	B	L-861T	30	30/45	127+49.2	93.0	LT	RELOCATED
E4	B	L-861T	30	30/45	127+49.24	88.0	LT	RELOCATED
E5	G/R	L-862E	200	200	127+44.0	85.0	LT	RELOCATED
E6	G/R	L-862E	200	200	127+44.0	75.0	LT	RELOCATED
E7	G/R	L-862E	200	200	127+44.0	65.0	LT	RELOCATED
E8	G/R	L-862E	200	200	127+44.0	55.0	LT	RELOCATED
E9	G/R	L-862E	200	200	127+44.0	55.0	RT	RELOCATED
E10	G/R	L-862E	200	200	127+44.0	65.0	RT	RELOCATED
E11	G/R	L-862E	200	200	127+44.0	75.0	RT	RELOCATED
E12	G/R	L-862E	200	200	127+44.0	85.0	RT	RELOCATED
E13	B	L-861T	30	30/45	195+09.8	185.0	LT	RELOCATED
E14	B	L-861T	30	30/45	195+17.4	146.7	LT	RELOCATED
E15	B	L-861T	30	30/45	195+39.1	114.3	LT	RELOCATED
E16	B	L-861T	30	30/45	195+71.5	92.6	LT	NEW
E17	B	L-861T	30	30/45	196+09.8	93.0	LT	NEW
E18	B	L-861T	30	30/45	196+09.8	88.0	LT	NEW
E19	Y/W	L-862	200	200	196+09.8	85.0	LT	RELOCATED
E20	Y/W	L-862	200	200	196+89.9	85.0	LT	RELOCATED
E21	Y/W	L-862	200	200	198+78.6	85.0	LT	RELOCATED
E22	Y/W	L-862	200	200	200+67.3	85.0	LT	RELOCATED
E23	R/G	L-862E	200	200	202+56.0	85.0	LT	RELOCATED
E24	R/G	L-862E	200	200	202+56.0	75.0	LT	RELOCATED
E25	R/G	L-862E	200	200	202+56.0	65.0	LT	RELOCATED
E26	R/G	L-862E	200	200	202+56.0	55.0	LT	RELOCATED
E27	R/G	L-862E	200	200	202+56.0	55.0	RT	RELOCATED
E28	R/G	L-862E	200	200	202+56.0	65.0	RT	RELOCATED
E29	R/G	L-862E	200	200	202+56.0	75.0	RT	RELOCATED
E30	R/G	L-862E	200	200	202+56.0	85.0	RT	RELOCATED
E31	Y/W	L-862	200	200	200+67.3	85.0	RT	RELOCATED
E32	Y/W	L-862	200	200	198+78.6	85.0	RT	RELOCATED
E33	Y/W	L-862	200	200	196+89.9	85.0	RT	RELOCATED
E34	Y/W	L-862	200	200	195+01.2	85.0	RT	NEW

NOTE: REUSE EXISTING FIXTURE, SUPPORT COLUMN, BASEPLATE, AND TRANSFORMER FOR FIXTURES INDICATED AS RELOCATED

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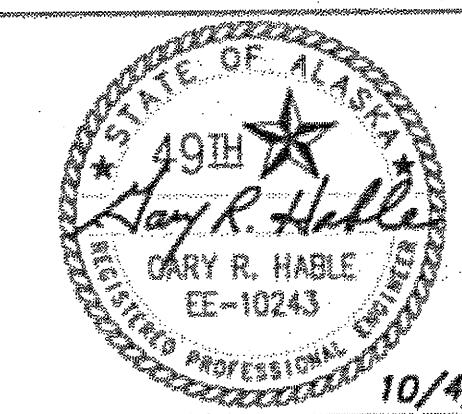
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KETCHIKAN AIRPORT
 RUNWAY SAFETY AREA EXPANSION
 & RUNWAY OVERLAY
 PROJECT NO. 68306

LIGHTING SCHEDULES

PREPARED BY: USKH INC.

CHECKED BY: GRH



DESIGNED BY: LPS

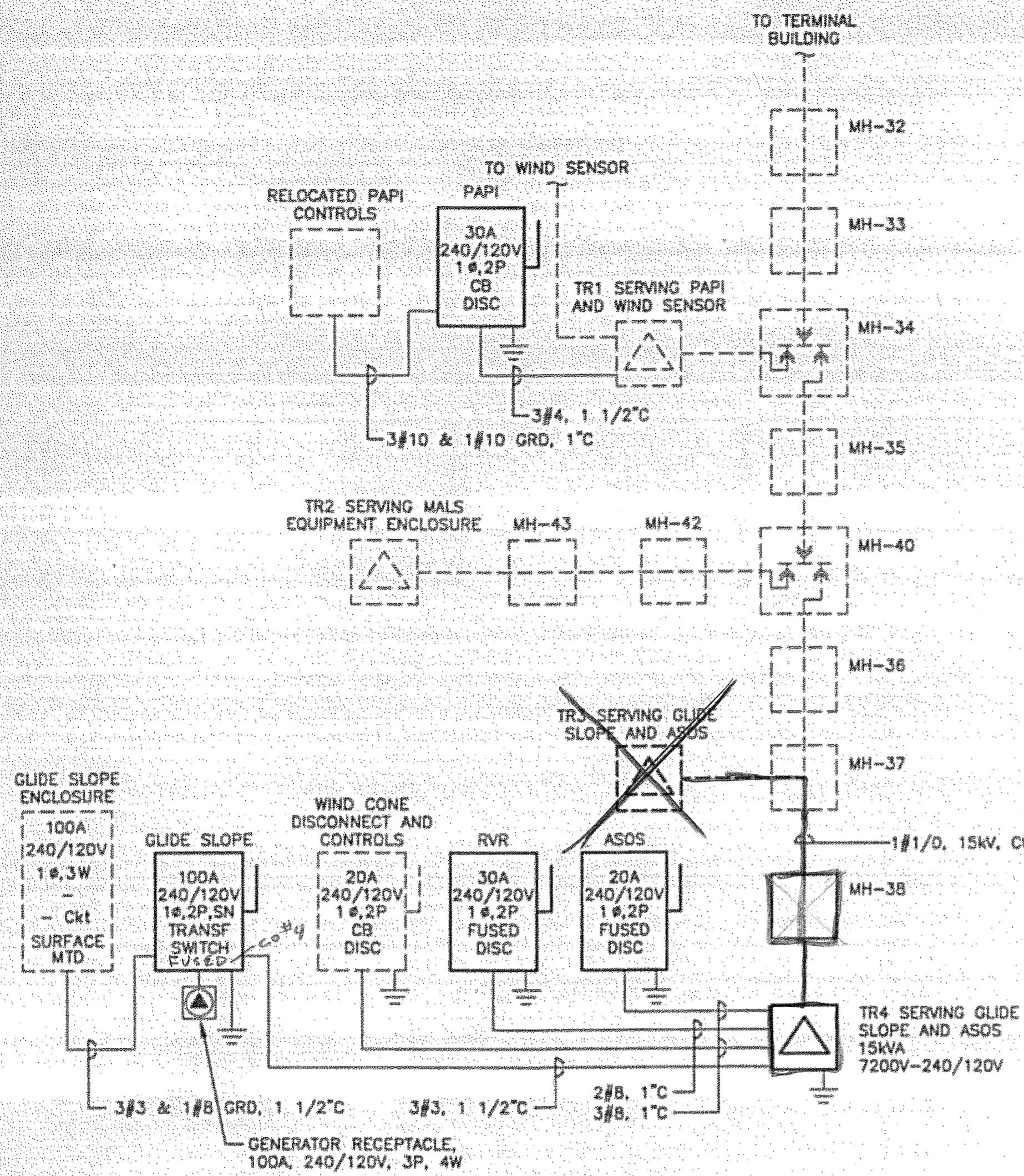
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STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
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 DIVISION-SOUTHEAST REGION

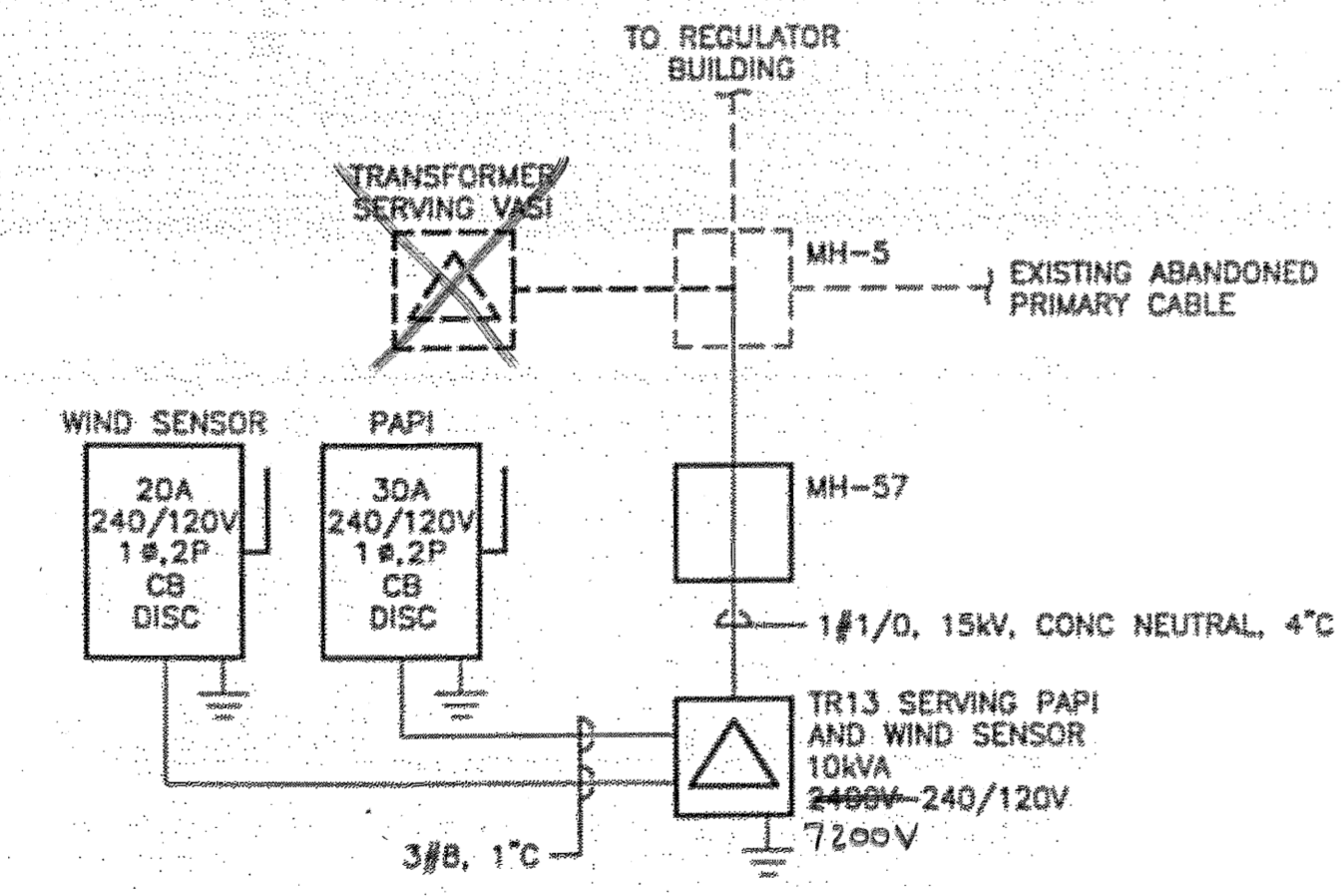
LIGHTING SCHEDULES

PROJECT DESIGNATION
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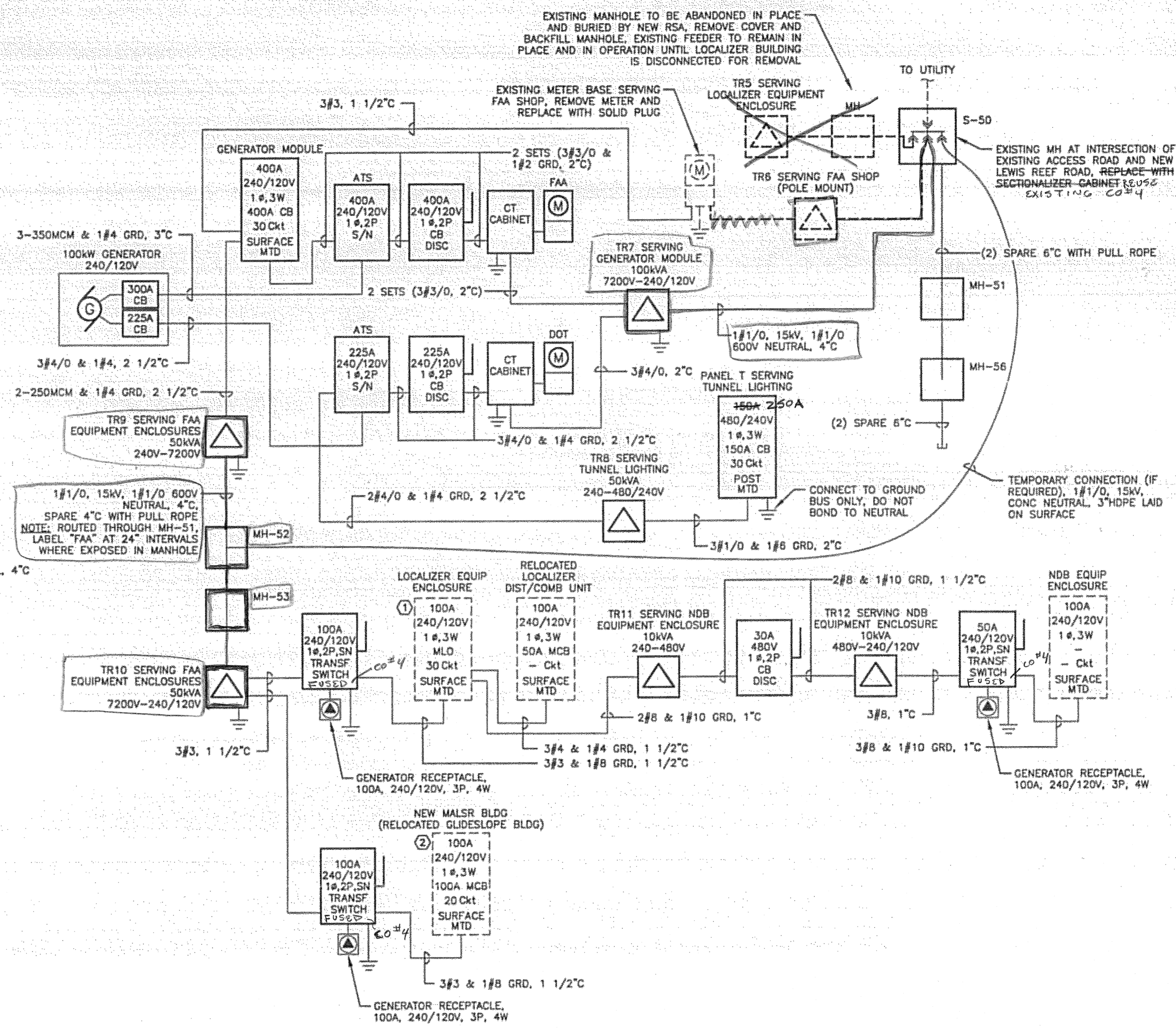
STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
G13	131



2 RISER DIAGRAM - WEST
G14 N.T.S.



3 RISER DIAGRAM - SOUTH
G14 N.T.S.



1 RISER DIAGRAM - EAST
G14 N.T.S.

NOTES:

- UNDERGROUND CONDUITS SHALL BE HDPE UNLESS OTHERWISE INDICATED ON THE PLANS. TRANSITION TO PVC COATED RMC PRIOR TO THE ELBOW OR 2' OUTSIDE STRUCTURE FOOTPRINT, WHICHEVER COMES FIRST, FOR STUB-UPS TO EQUIPMENT OR STRUCTURES.
- COORDINATE ALL CONNECTIONS, DISCONNECTIONS, AND OTHER WORK ASSOCIATED WITH THE EXISTING PRIMARY ELECTRIC LINES ON THE EAST END OF THE RUNWAY WITH KETCHIKAN PUBLIC UTILITIES.

RISER DIAGRAM LEGEND

- EXISTING TO REMAIN OR NEW PROVIDED BY OTHERS
- - - EXISTING TO BE REMOVED
- NEW WORK
- ⊥ INDICATES CONNECTION TO GROUND RING (WHERE PRESENT) OR (2) 3/4"x10" GROUND RODS CONNECTED BY #6BC (WHERE GROUND RING IS NOT PRESENT)

PANEL NOTES:

- PROVIDE (2) 50A/2P CIRCUIT BREAKERS TO SERVE THE DIST/COMB UNIT AND TR11.
- PROVIDE 80A/2P CIRCUIT BREAKER TO SERVE MALS SYSTEM.

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RUNWAY SAFETY AREA EXPANSION
& RUNWAY OVERLAY
PROJECT NO. 68306

ELECTRICAL RISER DIAGRAMS

PREPARED BY: USKH INC.
CHECKED BY: GRH

DESIGNED BY: LPS
DRAWN BY: LPS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES
DIVISION - SOUTHEAST REGION

10/4/06

ELECTRICAL RISER DIAGRAMS

PROJECT DESIGNATION
AIP NO. 3-02-0144-1606

STATE	YEAR
ALASKA	2006

SHEET NUMBER	TOTAL SHEETS
G14	131

TRANSFORMER SCHEDULE											
DES.	ACTION	TYPE	KVA	TEMP RISE	PRIMARY			SECONDARY			NOTES
					VOLTAGE	PHASE	WIRE	VOLTAGE	PHASE	WIRE	
TR1	REMAIN	LF	15	-	7200	1	2	240/120	1	3	
TR2	REMAIN	LF	25	-	7200	1	2	240/120	1	3	
TR3	REMOVE	LF	15	-	7200	1	2	240/120	1	3	3
TR4	NEW	LF	15	150	7200	1	2	240/120	1	3	
TR5	REMOVE	LF	-	-	7200	1	2	240/120	1	3	4,5
TR6	REMOVE	LF	-	-	7200	1	2	240/120	1	3	6
TR7	NEW	LF	100	150	7200	1	2	240/120	1	3	
TR8	NEW	DT	50	150	240	1	2	480/240	1	3	2,7
TR9	NEW	LF	50	150	240	1	2	7200	1	2	
TR10	NEW	LF	50	150	7200	1	2	240/120	1	3	
TR11	NEW	DT	10	150	240	1	2	480	1	2	1
TR12	NEW	DT	10	150	480	1	2	240/120	1	3	7
TR13	NEW	LF	10	150	2400	1	2	240/120	1	3	8
					7200						

ABBREVIATIONS:

CR = CAST RESIN
 DT = DRY TYPE
 EC = ENCAPSULATED CORE
 LF = LIQUID FILLED

TRANSFORMER SCHEDULE NOTES:

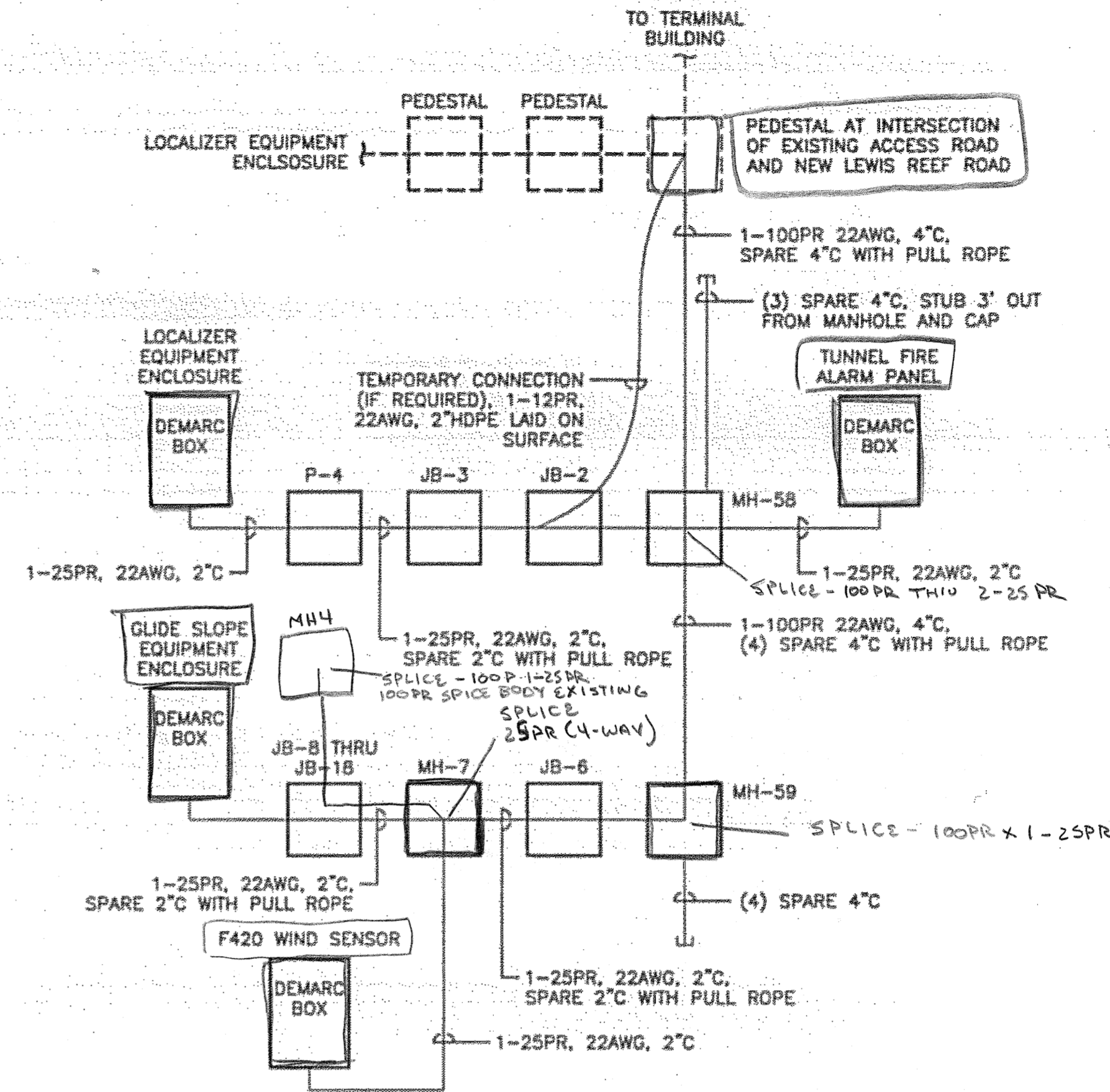
- PROVIDE WITH MANUFACTURER'S WALL MOUNTING BRACKET.
- FLOOR MOUNT ON VIBRATION ISOLATORS.
- REMOVE TRANSFORMER AND PAD. TURN TRANSFORMER OVER TO FAA.
- REMOVE TRANSFORMER AND PAD. TURN TRANSFORMER OVER TO KPU.
- TRANSFORMER MUST REMAIN IN SERVICE UNTIL EXISTING DME IS REMOVED.
- POLE MOUNT TRANSFORMER. REMOVE TRANSFORMER AND PRIMARY RISER. TURN TRANSFORMER OVER TO KPU.
- PROVIDE TRANSFORMER WITH MULTIPLE TAPS AND CONNECT APPROPRIATE TAP TO PROVIDE RATED VOLTAGE ON SECONDARY SIDE OF TRANSFORMER.
- EXTEND TRANSFORMER PAD 6" ABOVE GRADE INSTEAD OF THE 12" SHOWN IN DETAIL 3/G16. 30" MAXIMUM HEIGHT TO TOP OF TRANSFORMER.

SECTIONALIZER CABINET SCHEDULE						
NUM	VOLTAGE		RATING	STATION	OFFSET	REMARKS
	kV	PHASE	(A)			
S-50	15	3	200	197+88.3	519.1 LT	

NOTE: LOCATIONS ARE APPROXIMATE, FIELD LOCATE SECTIONALIZER CABINETS

HANDHOLE AND JUNCTION BOX SCHEDULE				
NUM	TYPE	STATION	OFFSET	REMARKS
JB-2	II	203+15.7	273.4	LT
JB-3	II	207+71.0	273.4	LT
JB-6	II	196+84.5	259.9	RT
JB-8	II	187+12.8	259.9	RT
JB-9	II	182+12.8	259.9	RT
JB-10	II	177+12.8	259.9	RT
JB-11	II	172+12.8	259.9	RT
JB-12	II	167+12.8	259.9	RT
JB-13	II	162+12.8	259.9	RT
JB-14	II	157+12.8	259.9	RT
JB-15	II	152+12.8	259.9	RT
JB-16	II	147+12.8	259.9	RT
JB-17	II	142+12.8	259.9	RT
JB-18	II	137+12.8	259.9	RT
JB-54	II	216+36.0	27.2	LT PAID UNDER L-135
JB-55	II	221+82.4	27.2	LT PAID UNDER L-135

NOTE: LOCATIONS ARE APPROXIMATE, FIELD LOCATE HANDHOLES AND JUNCTION BOXES
 JUNCTION BOXES REQUIRED FOR FAA APPROACH LIGHTING SYSTEMS ARE NOT SCHEDULED.
 SEE DOT STANDARD DETAIL L-23.01 FOR JUNCTION BOX INSTALLATION



1
G15 COMMUNICATIONS RISER DIAGRAM
 N.T.S.

RISER DIAGRAM LEGEND

--- EXISTING TO REMAIN
 - - - EXISTING TO BE REMOVED
 ——— NEW WORK

NOTE:

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COMMUNICATIONS PEDESTAL SCHEDULE				
NUM	SIZE (IN)	STATION	OFFSET	REMARKS
P-4	8	212+53.0	267.6	LT

NOTE: LOCATIONS ARE APPROXIMATE, FIELD LOCATE PEDESTALS

ELECTRICAL MANHOLE SCHEDULE					
NUM	LOAD RATING	INT DIM (MIN) LxWxH (FT)	STATION	OFFSET	REMARKS
MH-7	AIRCRAFT	4x6x4	192+12.8	259.9	RT
MH-38	AIRCRAFT	3x4x3	136+98.2	91.0	RT
MH-51	H-20	4x6.5x6	198+67.1	351.4	LT
MH-52	AIRCRAFT	3x4x3	203+34.3	260.7	LT
MH-53	AIRCRAFT	3x4x3	207+89.6	260.7	LT
MH-56	H-20	4x6.5x6	201+33.9	348.9	RT
MH-57	AIRCRAFT	3x4x3	186+86.5	270.0	RT
MH-58	H-20	4.5x8.5x6.5	198+89.6	360.4	LT 42" DIA ACCESS COVER
MH-59	H-20	4.5x8.5x6.5	201+36.6	355.9	RT 42" DIA ACCESS COVER

NOTE: LOCATIONS ARE APPROXIMATE, FIELD LOCATE MANHOLES

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KETCHIKAN AIRPORT
 RUNWAY SAFETY AREA EXPANSION
 & RUNWAY OVERLAY
 PROJECT NO. 68306

ELECTRICAL DIAGRAMS & SCHEDULES

PREPARED BY: USKH INC.

CHECKED BY: GRH



DESIGNED BY: LPS

DRAWN BY: LPS

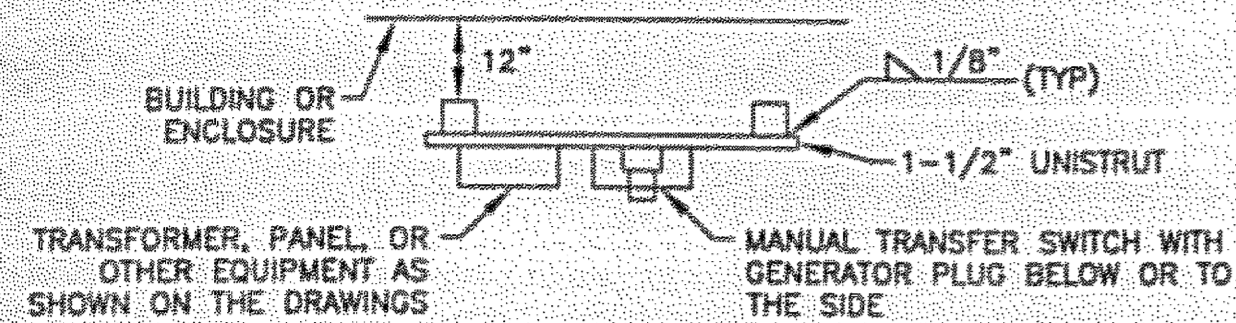
STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 & PUBLIC FACILITIES
 DESIGN & ENGINEERING SERVICES
 DIVISION - SOUTHEAST REGION

ELECTRICAL DIAGRAMS & SCHEDULES

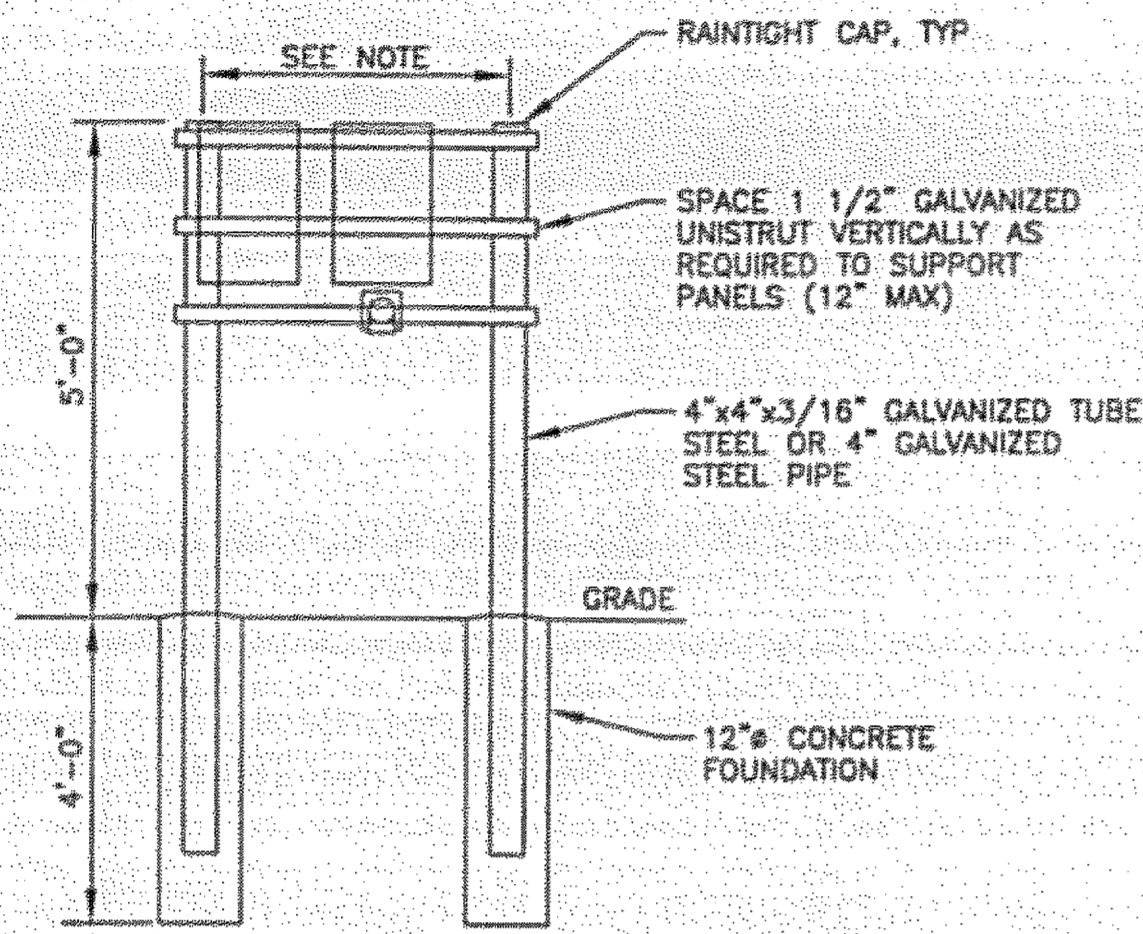
PROJECT DESIGNATION

AIP NO. 3-02-0144-1606

STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
G15	131

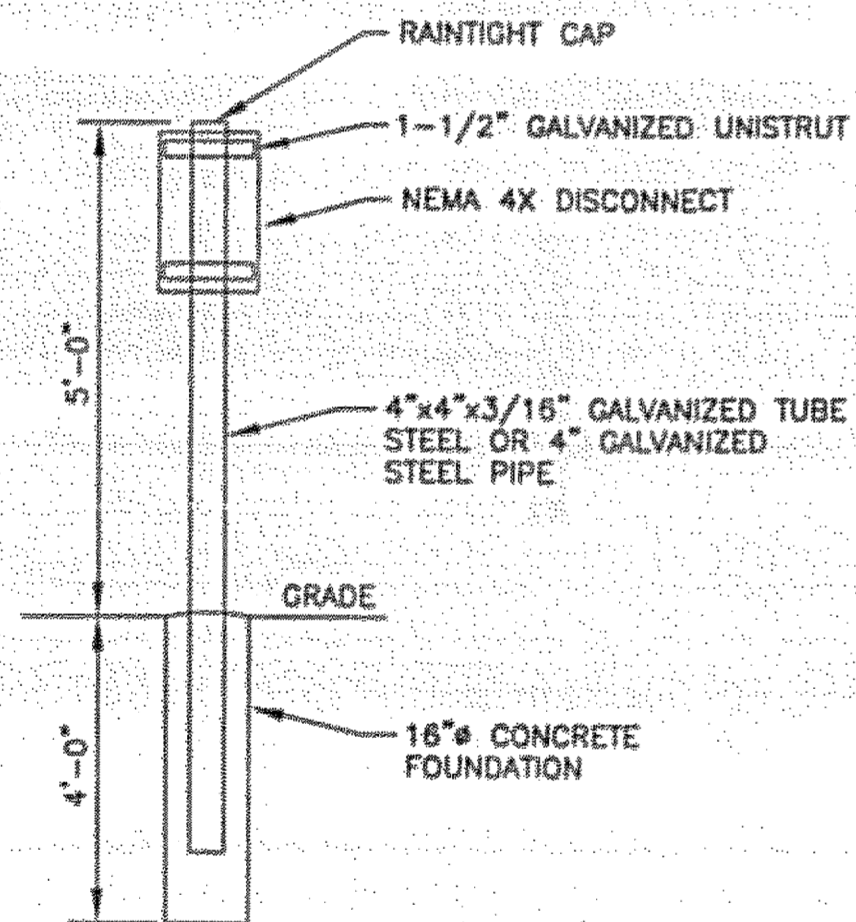


PLAN VIEW

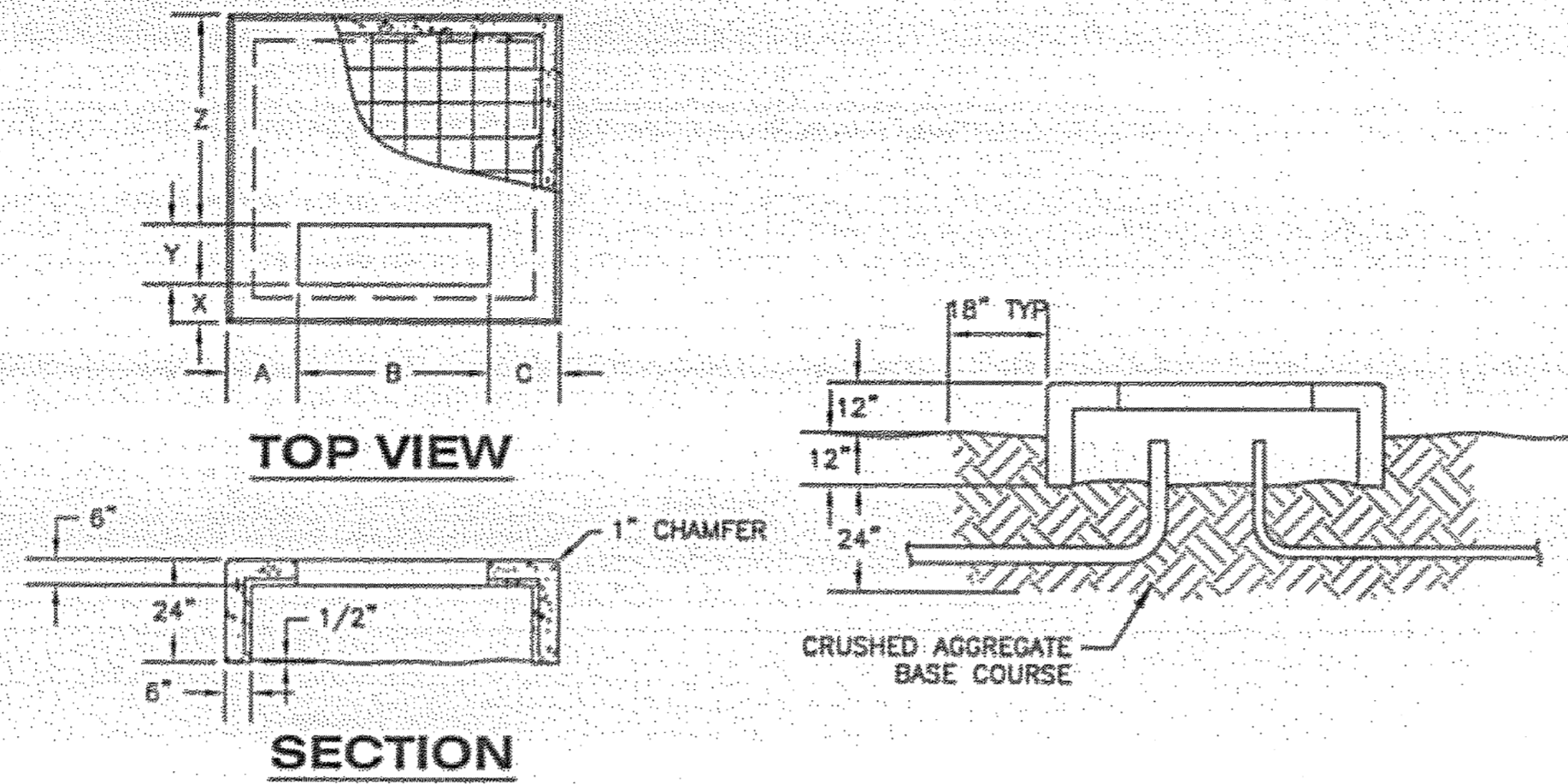


NOTE:
ADJUST WIDTH AS REQUIRED FOR EQUIPMENT INSTALLED AT EACH LOCATION, 24" MINIMUM, 48" MAXIMUM, IF LONGER SUPPORTS ARE NEEDED, PROVIDE ADDITIONAL POSTS

6 BUILDING SERVICE MOUNTING DETAIL
G16 N.T.S.

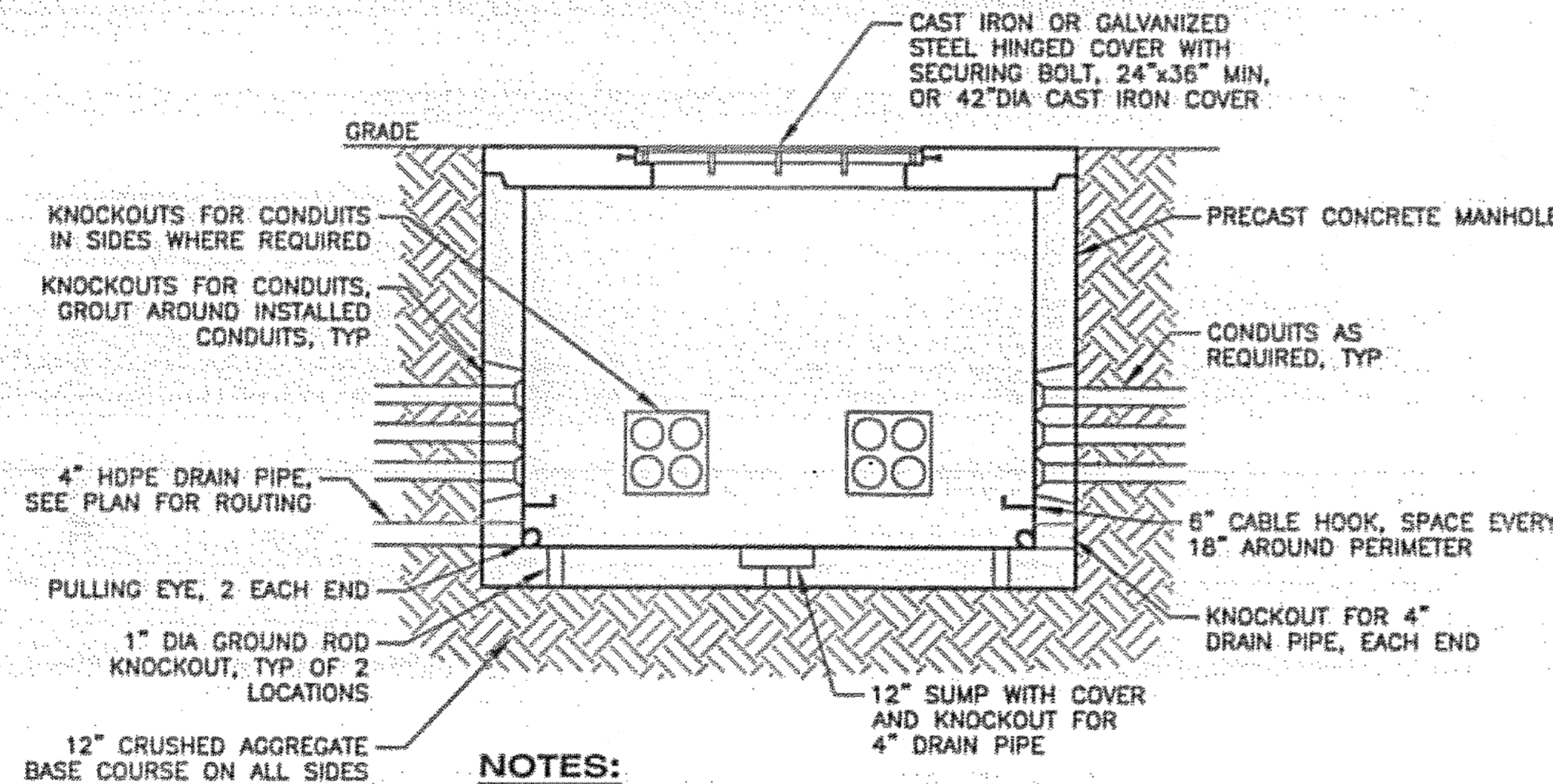


7 DISCONNECT MOUNTING DETAIL
G16 N.T.S.



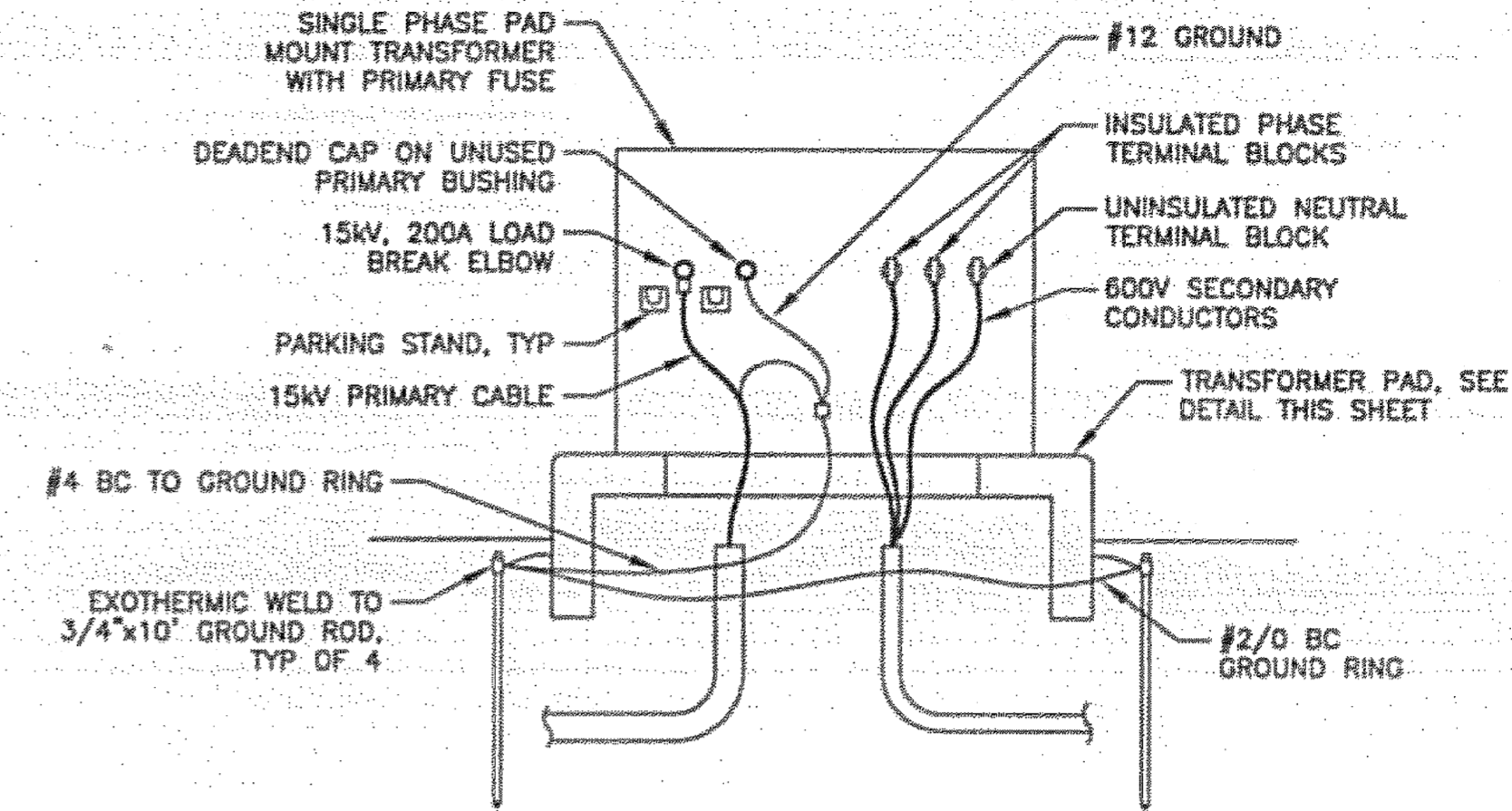
NOTES:
1. THIS UNIT INCLUDES THE PAD, SITE PREPARATION, EXCAVATION, AND BACKFILL.
2. LEVEL TOP OF PAD AND GRAVEL. THE BASE COURSE INSIDE THE PAD SHALL BE LEVEL WITH THE BASE OF THE PAD.
3. PAD SHALL BE SQUARE WITH RUNWAY OR ADJACENT STRUCTURES UNLESS SPECIFIED OTHERWISE. ORIENT THE PAD AWAY FROM POTENTIAL CONFLICTS TO PROVIDE ACCESS TO THE FRONT OF THE EQUIPMENT.
4. VERIFY PAD DIMENSIONS AND CONDUIT LOCATIONS WITH TRANSFORMER PRIOR TO CONSTRUCTING PAD.

3 TRANSFORMER PAD DETAIL
G16 N.T.S.

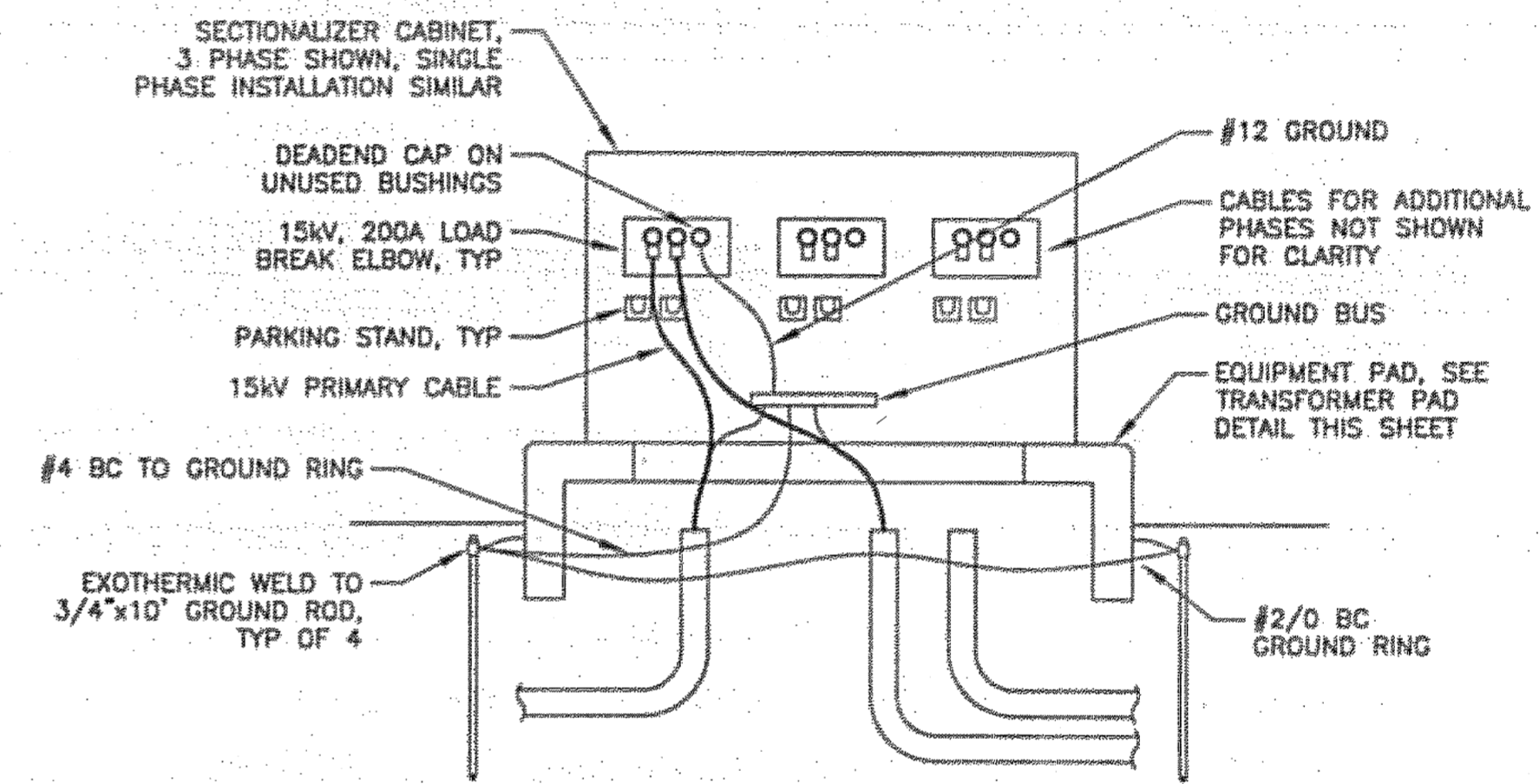


NOTES:
1. PRECAST MANHOLE, LID, FRAME, AND COVER SHALL BE RATED FOR WHEEL LOADING BASED ON LOCATION:
AIRCRAFT AREA - 100,000 LB. LOAD
NON-AIRCRAFT AREA - H-20 WHEEL LOADING
2. SEE MANHOLE SCHEDULE ON SHEET G15 FOR LOAD RATINGS AND SIZES OF INDIVIDUAL MANHOLES.
3. CAST IRON HINGED COVERS SHALL BE PROVIDED WITH SPRING ASSIST MECHANISM.

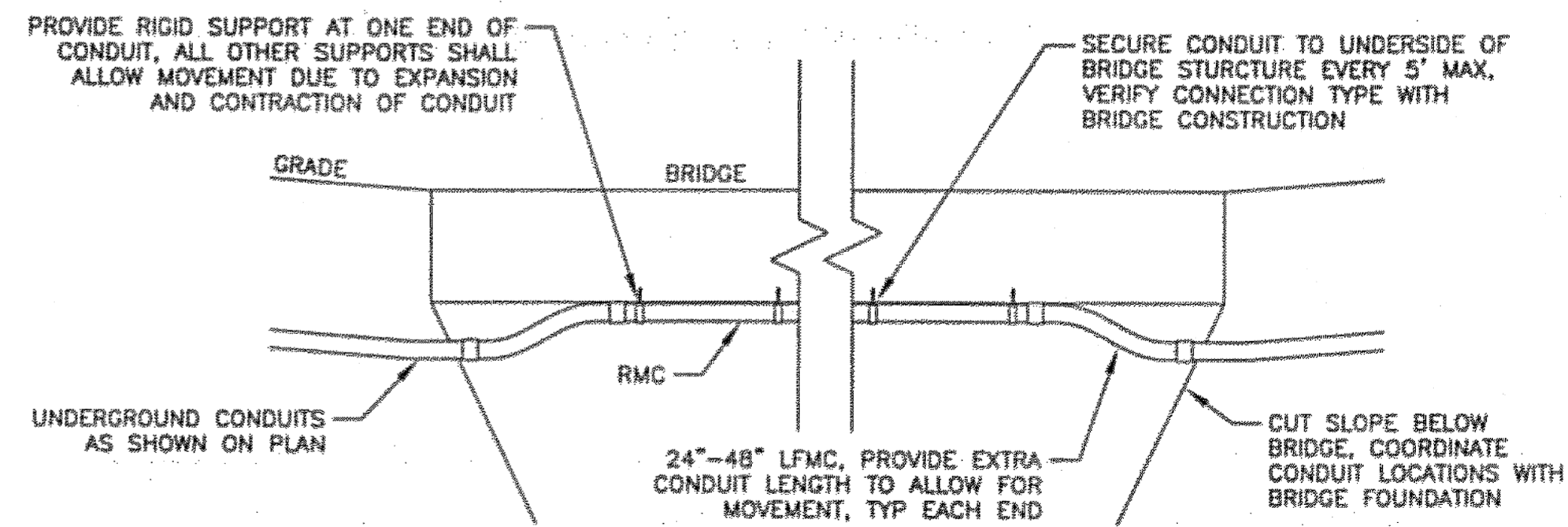
4 ELECTRICAL MANHOLE DETAIL
G16 N.T.S.



1 TRANSFORMER DETAIL
G16 N.T.S.



2 SECTIONALIZER DETAIL
G16 N.T.S.



5 BRIDGE MOUNTED CONDUIT DETAIL
G16 N.T.S.

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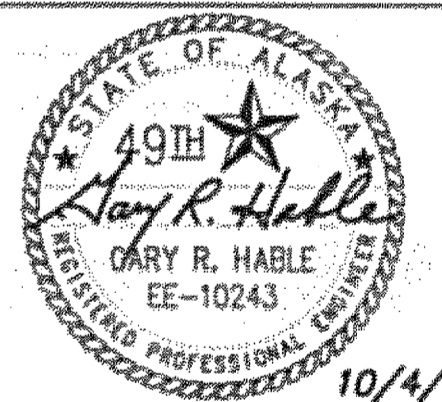
ADDENDUM NUMBER		
ATTACHMENT NUMBER		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION

KETCHIKAN AIRPORT
RUNWAY SAFETY AREA EXPANSION
& RUNWAY OVERLAY
PROJECT NO. 68306

ELECTRICAL DETAILS

PREPARED BY: USKH INC.

CHECKED BY: GRH



DESIGNED BY: LPS

DRAWN BY: LPS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES
DIVISION - SOUTHEAST REGION

**ELECTRICAL
DETAILS**

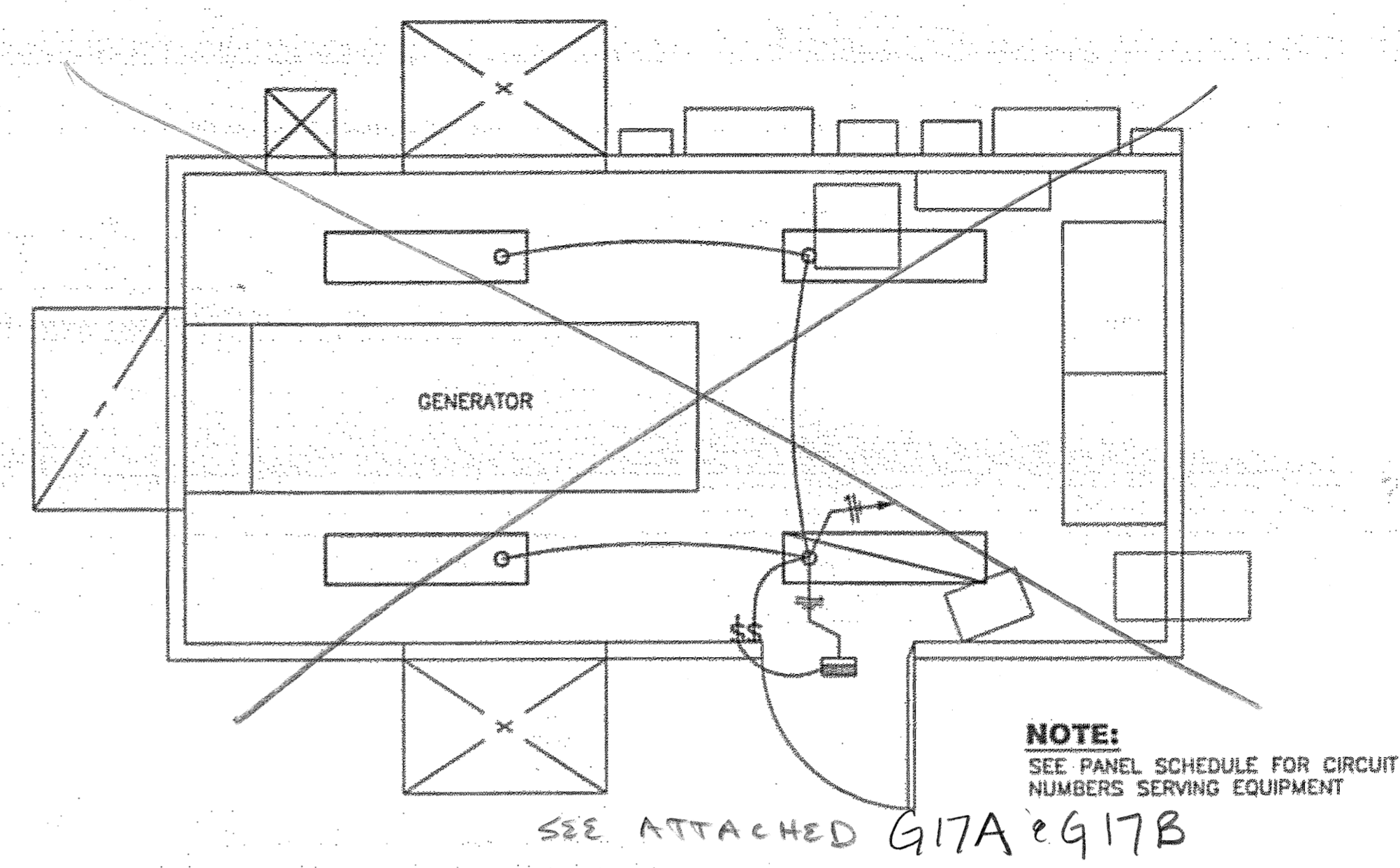
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AIP NO. 3-02-0144-1606

STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS

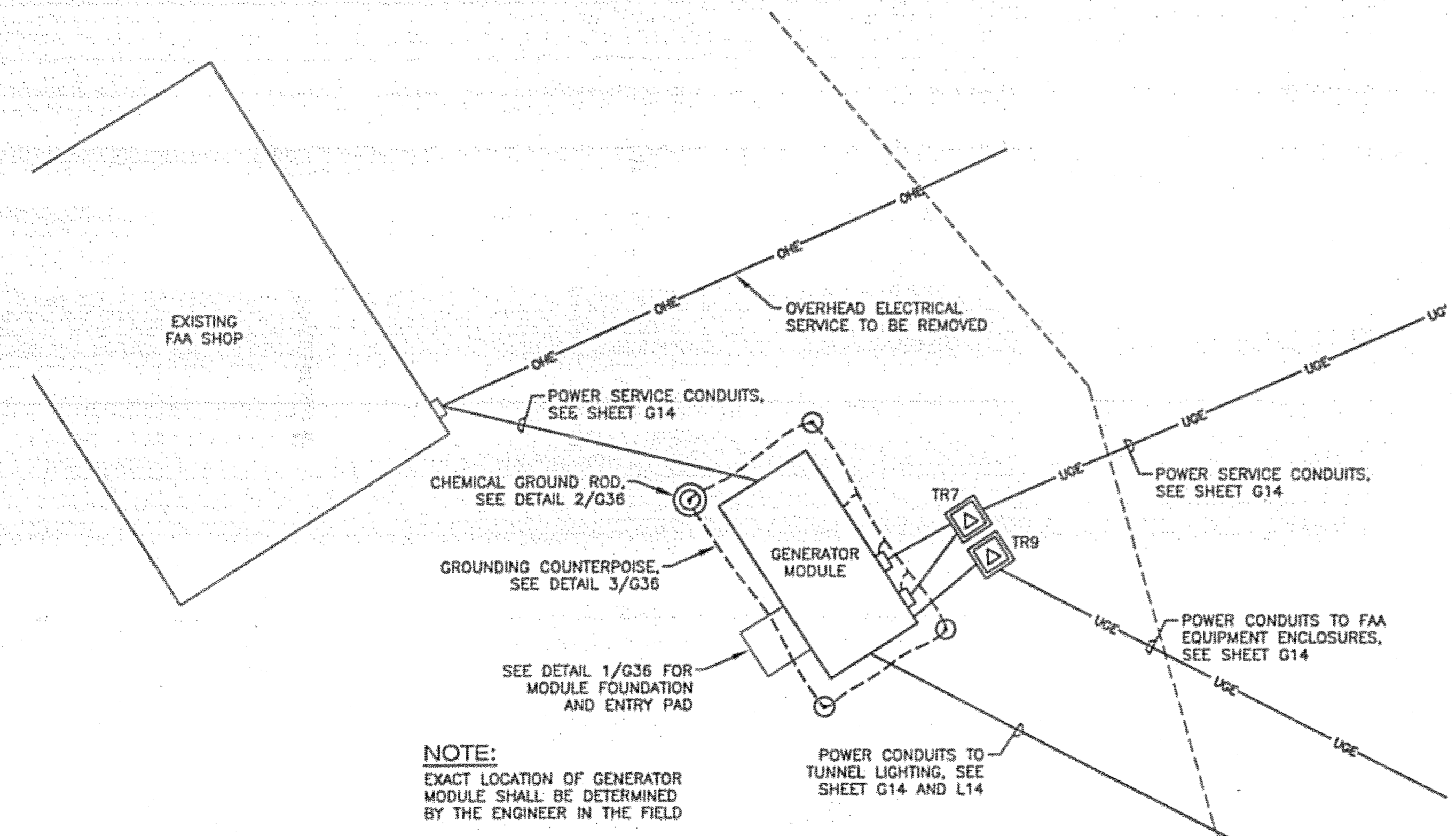
G16 131

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

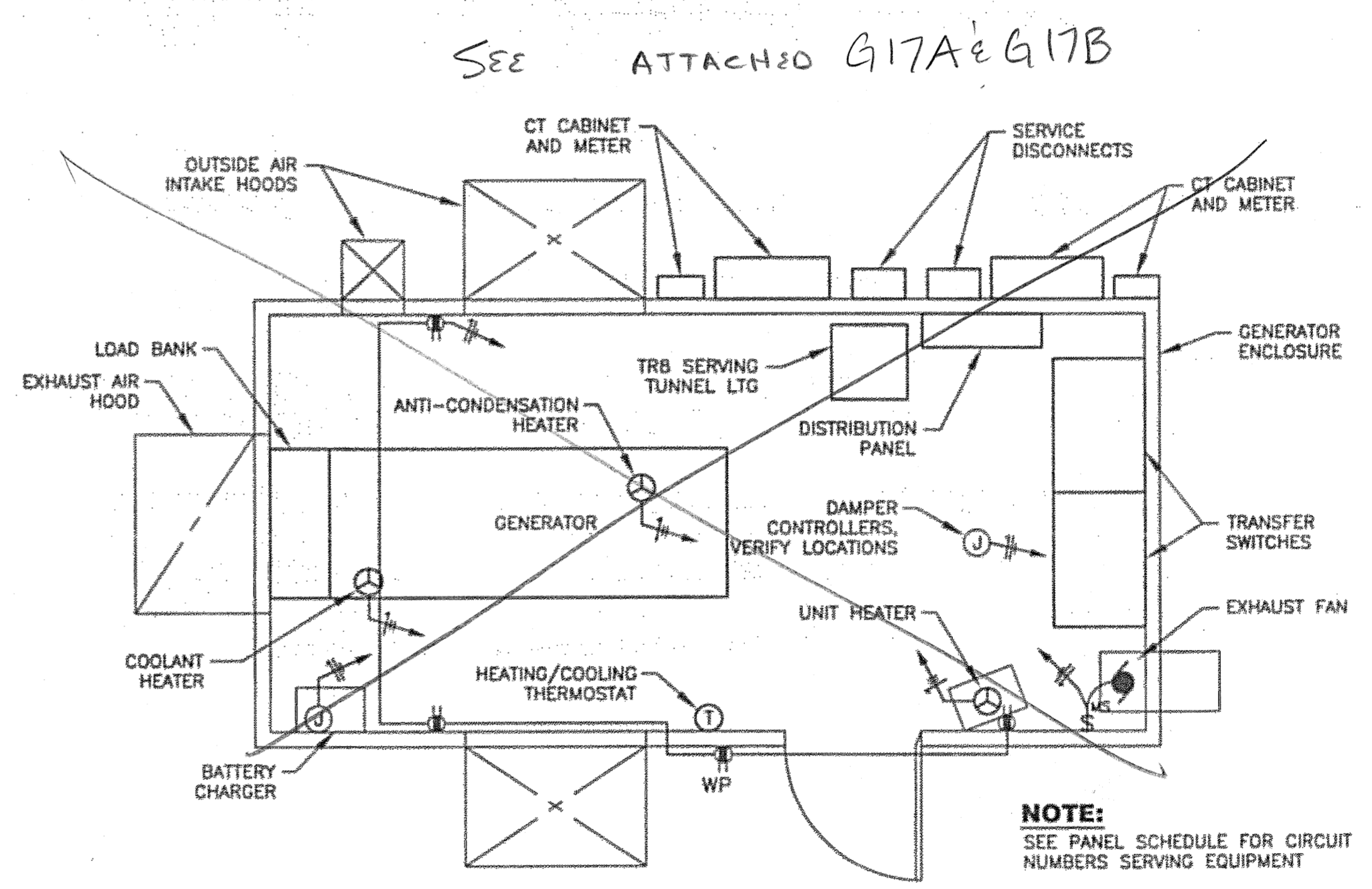
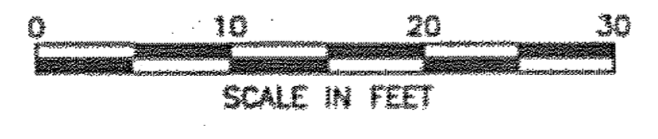
GENERATOR MODULE PANEL									
CKT	LOAD	BRANCH		CONN KVA		BRANCH		LOAD	CKT
		BKR	VA	A	B	VA	BKR		
1	FAA SHOP	100/2	9000	26.0		17000	250/2	RW 29 FAA EQUIPMENT ENCLOSURES	2
3			9000		26.0	17000			4
5	LIGHTS	20/1	307	2.8		2500	30/2	UNIT HEATER	6
7	RECEPTS	20/1	720		3.2	2500			8
9	EXHAUST FAN	20/1	696	1.4		750	20/2	COOLANT HEATER	10
11	BATTERY CHARGER	20/1	1000		1.6	750			12
13	DAMPER CONTROLS	20/1	600	0.7		50	20/2	ANTI-CONDENSATION HEATER	14
15					0.1	50			16
17					0.0				18
19					0.0				20
21					0.0				22
23					0.0				24
25					0.0				26
27					0.0				28
29					0.0				30
CONNECTED LOAD		61.9 KVA	30.9	31.0					
NEC DEMAND		62.0 KVA	258	259					
		258 AMPS							
PANEL NOTES		PANEL SPECIFICATIONS MAINS RATING AMPS - 400 MAIN CIRCUIT BREAKER AMPERES - 400 CAPACITY ONE-POLE CIRCUITS - 30 SYSTEM VOLTAGE - 240/120 PHASE, NO. OF WIRES - 1 PH, 3 W AIC RATING - 22,000 MOUNTING - SURFACE							



1 GENERATOR MODULE - LIGHTING PLAN
G17 N.T.S.



3 GENERATOR MODULE ENLARGED PLAN
G17 N.T.S.



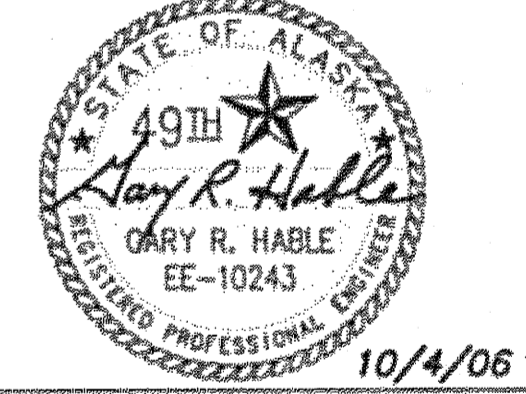
2 GENERATOR MODULE - POWER PLAN
G17 N.T.S.

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Tue, 03/Oct/06 02:21PM Ischneller
TAB: G11

ADDENDUM NUMBER		
ATTACHMENT NUMBER		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION

KETCHIKAN AIRPORT
 RUNWAY SAFETY AREA EXPANSION
 & RUNWAY OVERLAY
 PROJECT NO. 68306
 GENERATOR MODULE DETAILS

PREPARED BY: USKH INC.
CHECKED BY: GRH



DESIGNED BY: LPS
DRAWN BY: LPS

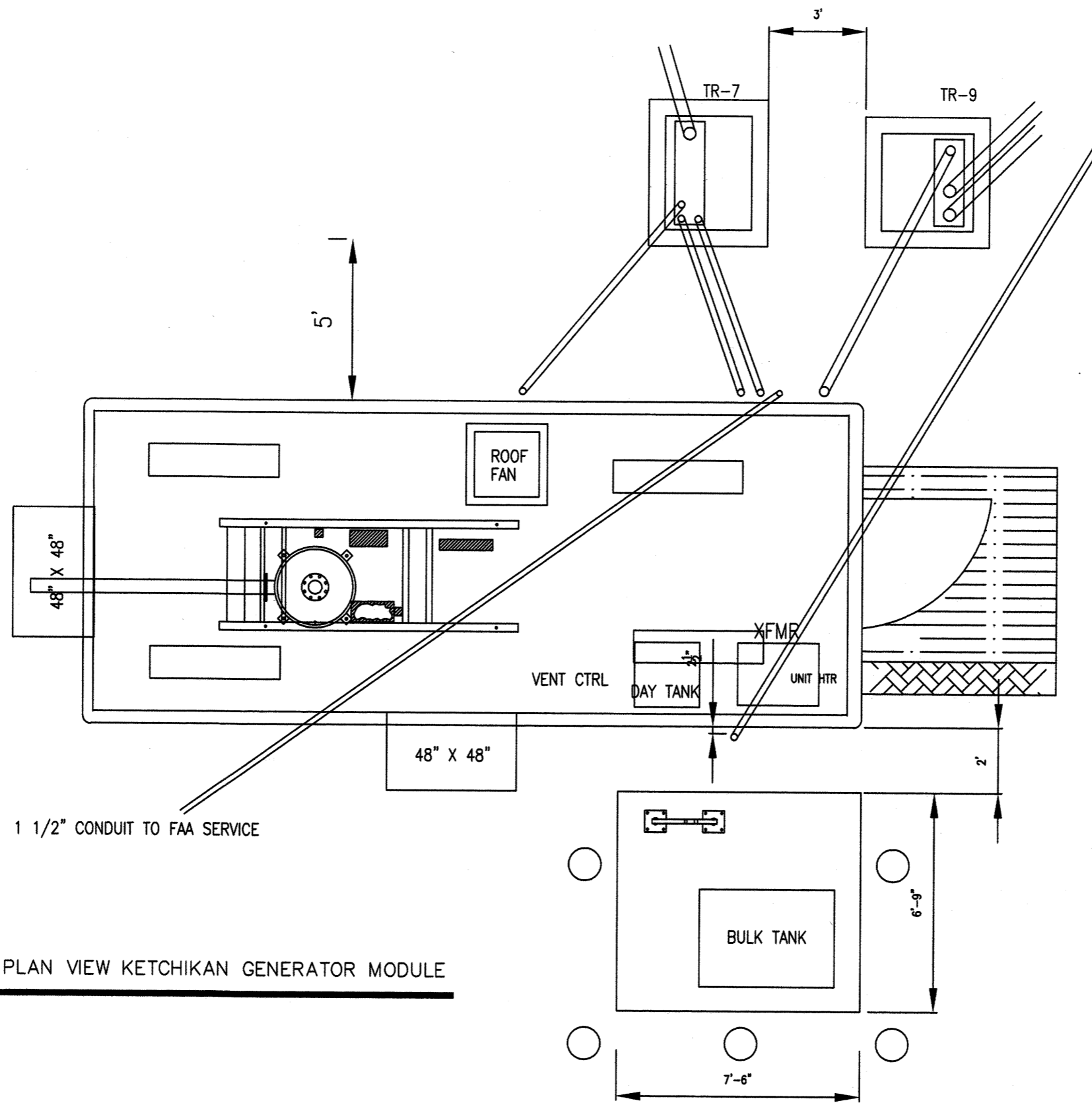
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES
DIVISION - SOUTHEAST REGION

GENERATOR MODULE DETAILS

PROJECT DESIGNATION
AIP NO. 3-02-0144-1606

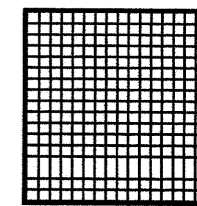
STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
G17	131

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS



PLAN VIEW KETCHIKAN GENERATOR MODULE

1 1/2" CONDUIT TO FAA SERVICE



SWANSON GENERAL CONTRACTORS, INC.
 2000 UNIVERSITY BLVD. SE
 KETCHIKAN, ALASKA 99901
 PHONE 486 334-2000

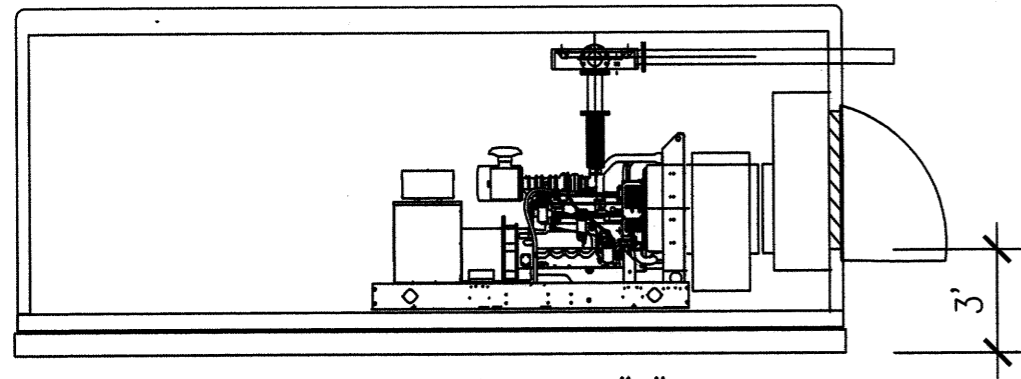
GENERATOR BLD PAD

KETCHIKAN AIRPORT - PROPOSED FAA GENERATOR SHELTER

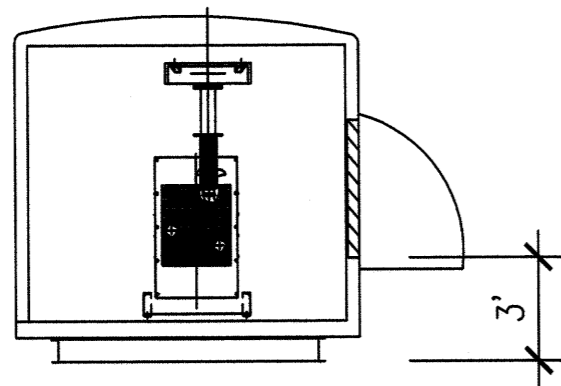
designed
 drawn
 checked
 job no.
 date
 dwg. title
 revisions:
 9/6/07-Tank mod

sheet no. 1 of 1

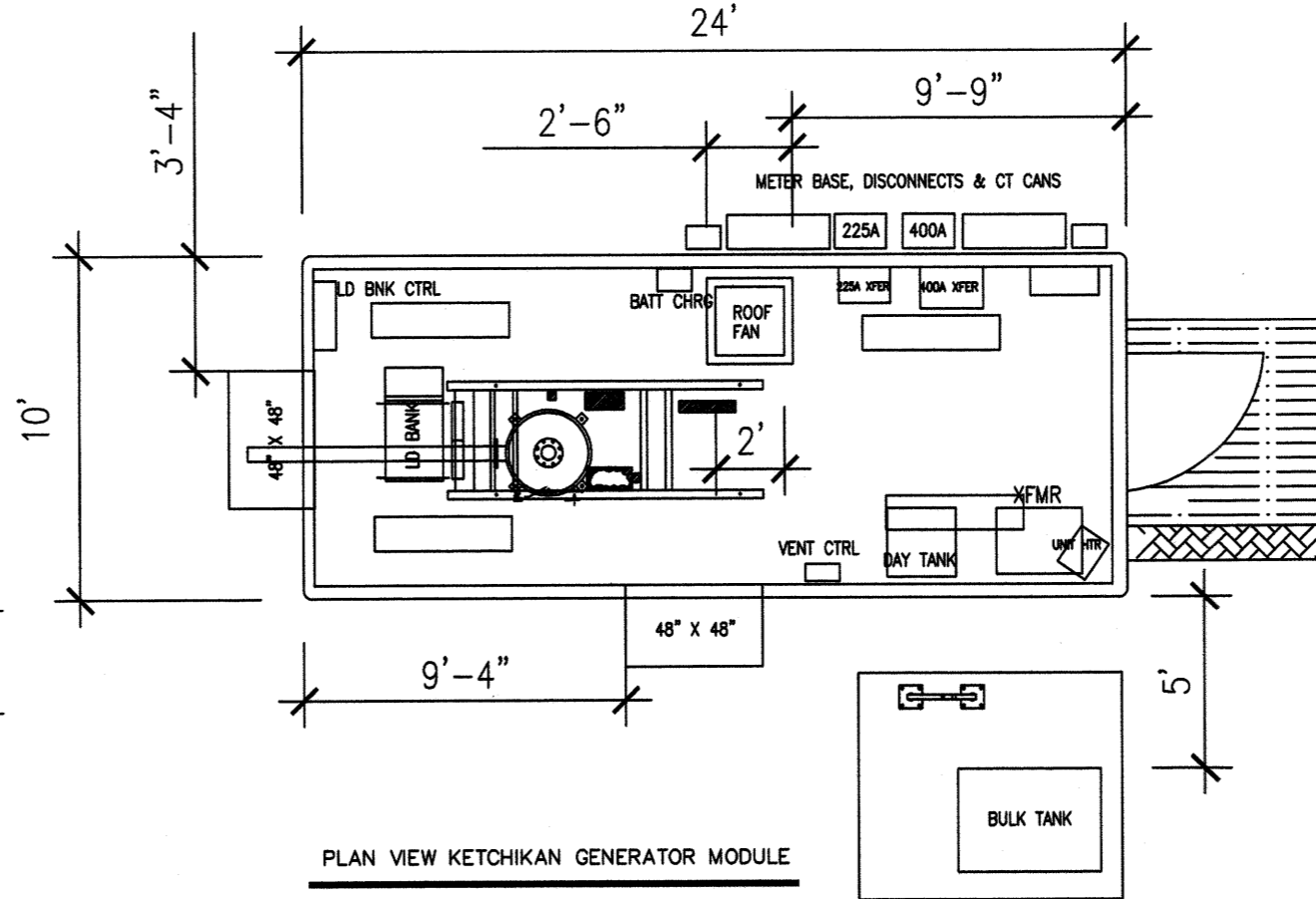
G17A



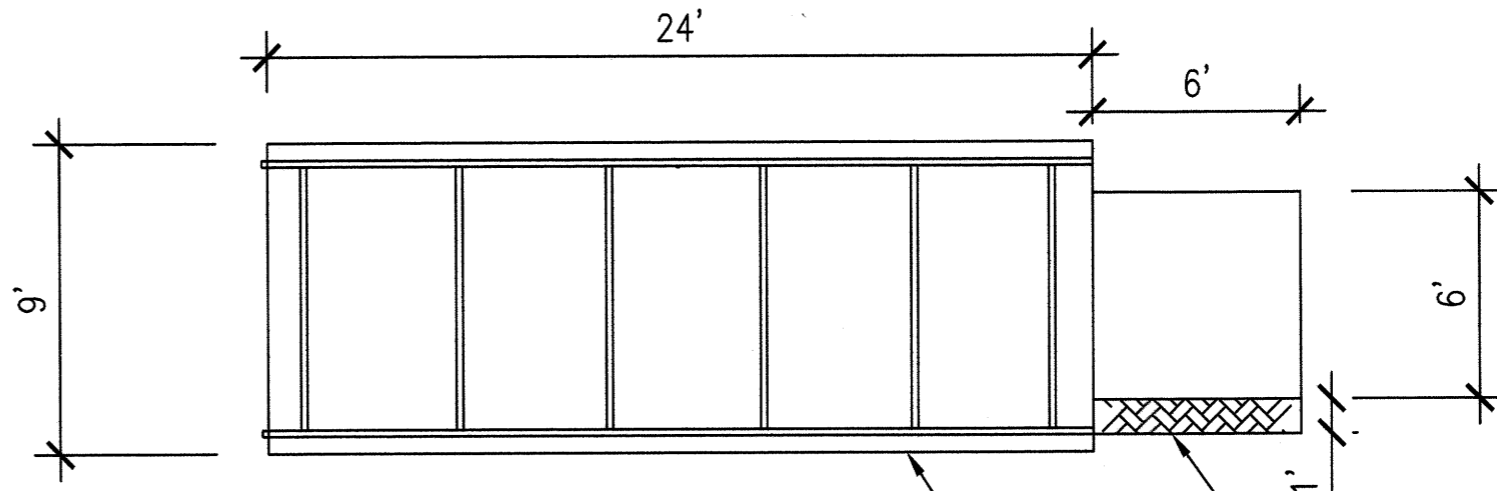
Elevation "A"



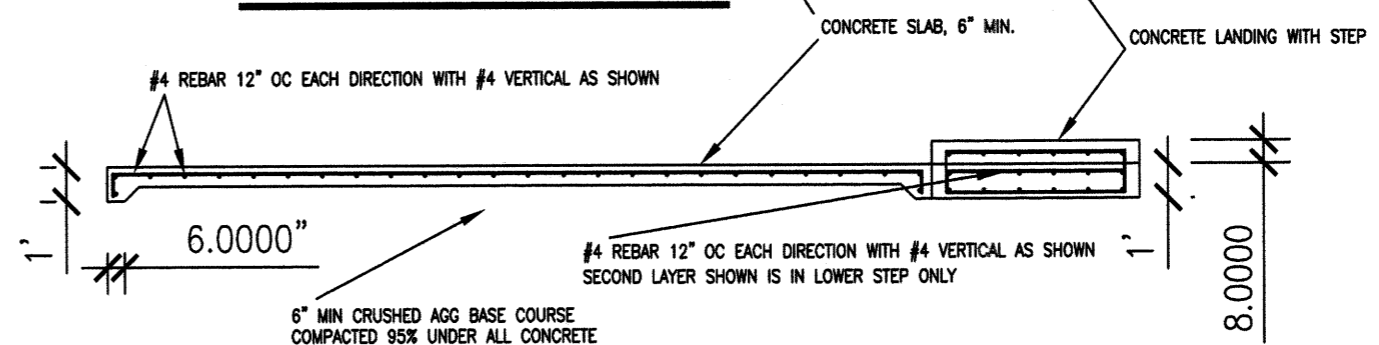
Elevation "B"



PLAN VIEW KETCHIKAN GENERATOR MODULE

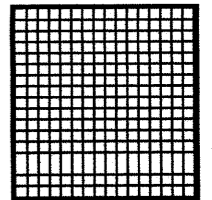


PLAN VIEW KETCHIKAN MODULE FOUNDATION



ELEVATION VIEW KETCHIKAN MODULE FOUNDATION

G17B



SWANSON GENERAL CONTRACTORS, INC.
 200 BIRMINGHAM BLVD.
 ANNISTON, ALABAMA, 36810
 TEL: 205 934-4444
 FAX: 205 934-4444

PROPOSED MODULE

KETCHIKAN AIRPORT - PROPOSED FAA GENERATOR SHELTER

designed
 drawn
 checked
 job no.
 date
 dwg. title
 revisions:
 9/8/07-Tank mod

sheet no. 1 of 1

NAVAID CONSTRUCTION RESPONSIBILITIES				
SYSTEM PAY ITEM	FAA	CONTRACTOR	PLAN SHEETS	DETAIL SHEETS
Glide Slope L-135a(1) L-135b(1)	<ul style="list-style-type: none"> Provide building with lights, heat, and power distribution Install glide slope equipment in new building Install glide slope antenna, including tower, obstruction lights, and connection to building Remove glide slope equipment from existing building Remove glide slope antenna from tower 	<ul style="list-style-type: none"> Prepare building site/foundation Set and anchor building Install/fabricate cover entry Connect power service to new building Connect communications service to new building Install grounding counterpoise and test Install glide slope tower foundation Disconnect existing building from power service Relocate existing building (see MALS R 29 for reconnection) Remove and dispose of existing glide slope antenna tower 	G2-Demo G7-New G31-Enlarged G34-GS Bldg	G36-GS Bldg Fdn G36-GS Bldg Grd G33-Tower Fdn G14-Power Service G15-Comm Service
Localizer Equip Bldg L-135a(3) L-135b(2)	<ul style="list-style-type: none"> Provide building with lights, heat, and power distribution Install localizer equipment in new building Remove localizer equipment from existing building 	<ul style="list-style-type: none"> Prepare building site/foundation Set and anchor building Install/fabricate cover entry Connect power service to new building Connect communications service to new building Install grounding counterpoise and test Disconnect existing building from power and communications services Relocate existing building to maintenance area as directed by the engineer 	G4-Demo G10-New, Enlarged G34-LOC Bldg	G36-LOC Bldg Fdn G36-LOC Bldg Grd G14-Power Service G15-Comm Service
Localizer Antenna Array L-135a(3) L-135b(2)	<ul style="list-style-type: none"> Install and connect new antenna array Remove existing antenna array Disconnect existing communications conductors at dist/comb unit Install new communications conductors from localizer building to antenna platform Reconfigure communications conduit and conductors to route through dist/comb unit 	<ul style="list-style-type: none"> Construct antenna platform Prepare dist/comb unit site/foundation Install conduit from localizer building to antenna platform through junction box Install obstruction lights on platform Disconnect existing dist/comb unit from power service Relocate dist/comb unit to new location Connect power service to dist/comb unit Remove existing antenna platform 	G4-Demo G10-New G35-Dist/Comb	F14-F19-Platform G36-Dist/Comb Fdn G36-Dist/Comb Grd G14-Dist/Comb Pwr
DME L-135a(4) L-135b(3)	<ul style="list-style-type: none"> Install new antenna tower and antenna Install DME equipment in localizer building Install communications conductors from localizer building to antenna Disconnect and remove existing antenna 	<ul style="list-style-type: none"> Install antenna tower foundation Install conduits from localizer building to antenna 	G4-Demo G10-New, Enlarged	G39-Foundation
NDB L-135a(5) L-135b(5)	<ul style="list-style-type: none"> Disconnect existing antenna Install antenna foundation Install new antenna Install building foundation Set and anchor building Install grounding counterpoise radiats and ground rods Perform ground testing Relocate transmitter equipment 	<ul style="list-style-type: none"> Remove and dispose of existing antenna and support towers as directed, new NDB must be operational prior to removal of existing (FAA flight check required) Disconnect existing building from power service Connect power service to new building Relocate existing building to maintenance area as directed by the engineer Provide temporary power as required Protect grounding counterpoise during installation of permanent power and MALS R conduits 	G5-Demo G10-New G32-Enlarged	G14-Power Service
ASOS L-135c(1)	<ul style="list-style-type: none"> Relocate existing ASOS rails and equipment 	<ul style="list-style-type: none"> Prepare new site and foundations Disconnect existing equipment from power service Connect power service to relocated equipment 	G2-Demo G7-New G31-Enlarged	G14-Power Service G40-G42-ASOS Dtls
F420 Wind Sensor L-135a(2)	<ul style="list-style-type: none"> Provide and install tower and sensor equipment 	<ul style="list-style-type: none"> Install new tower foundation Install conduit from tower to power disconnect and telecom demarc 	G10-New	G15-Power Service G15-Comm Service G45-Foundation
RCO Towers L-135b(4)	<ul style="list-style-type: none"> Remove antennas deemed salvageable Disconnect existing communications conductors at localizer building 	<ul style="list-style-type: none"> Remove and dispose of existing RCO towers Remove above ground portions of conductors and abandoned direct buried conductors in place 	G4-Demo	

NAVAID CONSTRUCTION RESPONSIBILITIES				
SYSTEM PAY ITEM	FAA	CONTRACTOR	PLAN SHEETS	DETAIL SHEETS
RVR L-135a(5)	<ul style="list-style-type: none"> Install new tower and equipment near glide slope building Install and connect new equipment (CDs, ALS, and DPU) in terminal building (in FSS and FAA comm room) Install and connect new equipment (RLIM) in regulator vault 	<ul style="list-style-type: none"> Install equipment foundations Install conduit between equipment and glide slope building Install CTs on lighting circuits in regulator vault for connection to RLIM by FAA Install support structure, power service, service disconnect, and underground conduit and grounding as shown 	G7-New	G14-Power Service G43-G45 RVR Dtls
PAPI RW 11 L-132c(2)	<ul style="list-style-type: none"> Replace tilt switches in LHAs during service outage 	<ul style="list-style-type: none"> Prepare new site and foundations Relocate PAPI system to new site Return remote monitoring subsystem cabinet to FAA Remove existing conductors, foundations, and support structures 	G2-Demo G7-New	G14-Power Service G37-G38-PAPI Dtls
VASI RW 29 L-132b(2)		<ul style="list-style-type: none"> Remove existing VASI system including radio control cabinets 	G4-Demo	G15-Power Service
PAPI RW 29 L-132a(2)	<ul style="list-style-type: none"> Provide new PAPI system 	<ul style="list-style-type: none"> Prepare site and foundations Install PAPI system 	G9-New	G15-Power Service G37-G38-PAPI Dtls
MALS R RW 11 L-132c(1)	<ul style="list-style-type: none"> Provide (2) new flashers and ICCs 	<ul style="list-style-type: none"> Relocate MALS R towers and lights Install new foundations, conduit, and conductors Provide new parts as required to reinstall system at new locations Provide replacement parts and make repairs as required 	G1-Demo G6-New G19-Enlarged	G21-Equipment and Conduit Schedules G22-G27-MALS R Dtls G28-Wiring Diag G14-Power Service
MALS R RW 29 L-132a(1) L-132b(1)	<ul style="list-style-type: none"> Provide new MALS R system and air-to-ground radio controller 	<ul style="list-style-type: none"> Install new MALS R system, including new foundations, conduit, and conductors Relocate existing support towers and provide new towers as required and indicated to install new system Set and anchor relocated glide slope building (MALS R building) Connect MALS R building to power service Install controls in MALS R building Relocate existing ground-to-ground receiver from existing localizer building to new MALS R building and connect to control new MALS R system 	G4-5-Demo G10-New G20-Enlarged G36-MALS R Bldg	G20-Equipment and Conduit Schedules G22-27-MALS R Dtls G29-30-Wiring Diag G14-Power Service G36-MALS R Bldg Fdn G36-MALS R Bldg Grd

NOTE: This list is intended to portray the general responsibilities of the parties involved and may not include all specific aspects of the work required.

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ADDENDUM NUMBER

ATTACHMENT NUMBER

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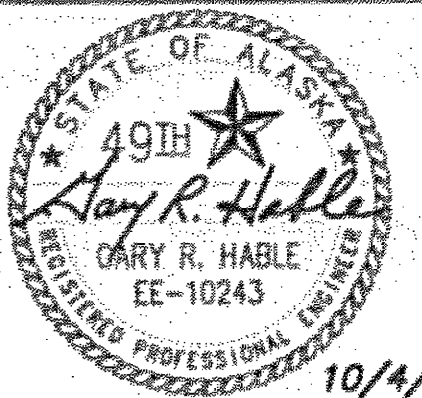
No.	DATE	DESCRIPTION

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NAVAID CONSTRUCTION RESPONSIBILITIES

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DESIGNED BY: LPS

DRAWN BY: LPS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES
DIVISION-SOUTHEAST REGION

NAVAID
CONSTRUCTION
RESPONSIBILITIES

PROJECT DESIGNATION
AIP NO. 3-02-0144-1606

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 & RUNWAY OVERLAY
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MALSR PLAN & PROFILE - WEST

PREPARED BY: USKH INC.
 CHECKED BY: GRH

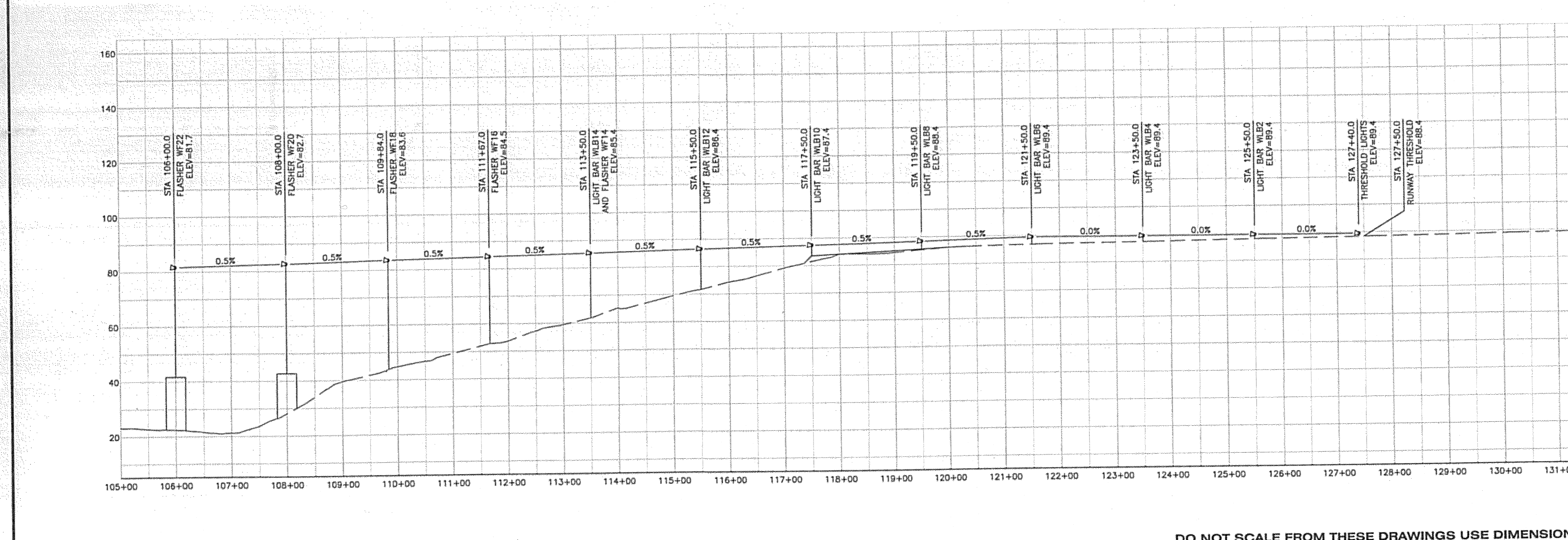
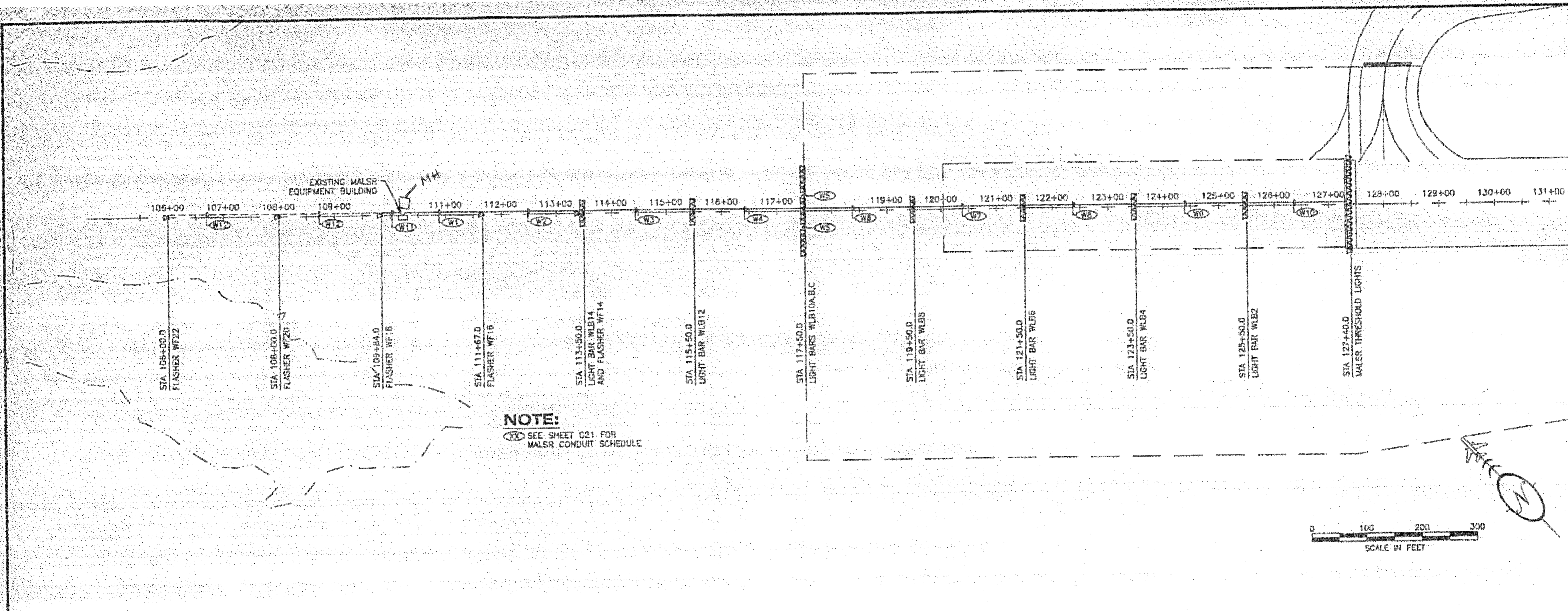
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 DRAWN BY: LPS

STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 & PUBLIC FACILITIES
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 DIVISION - SOUTHEAST REGION

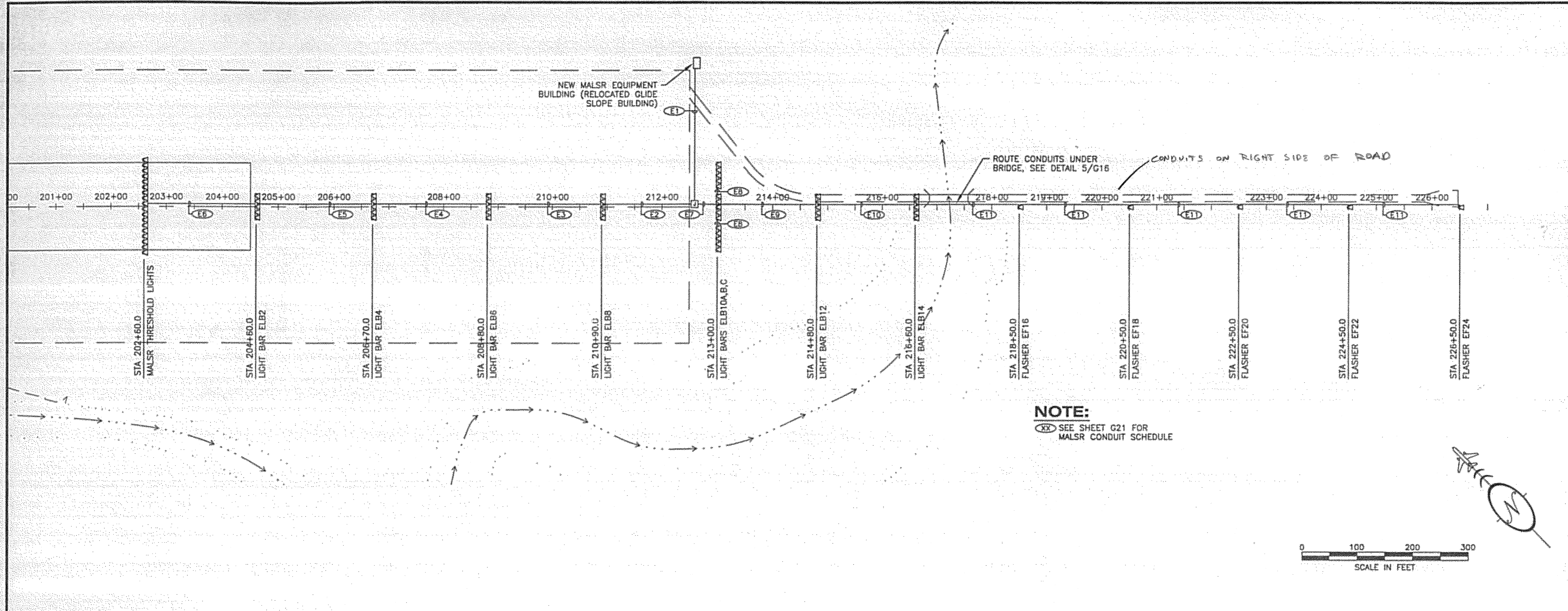
MALSR PLAN & PROFILE - WEST

PROJECT DESIGNATION
 AIP NO. 3-02-0144-1606

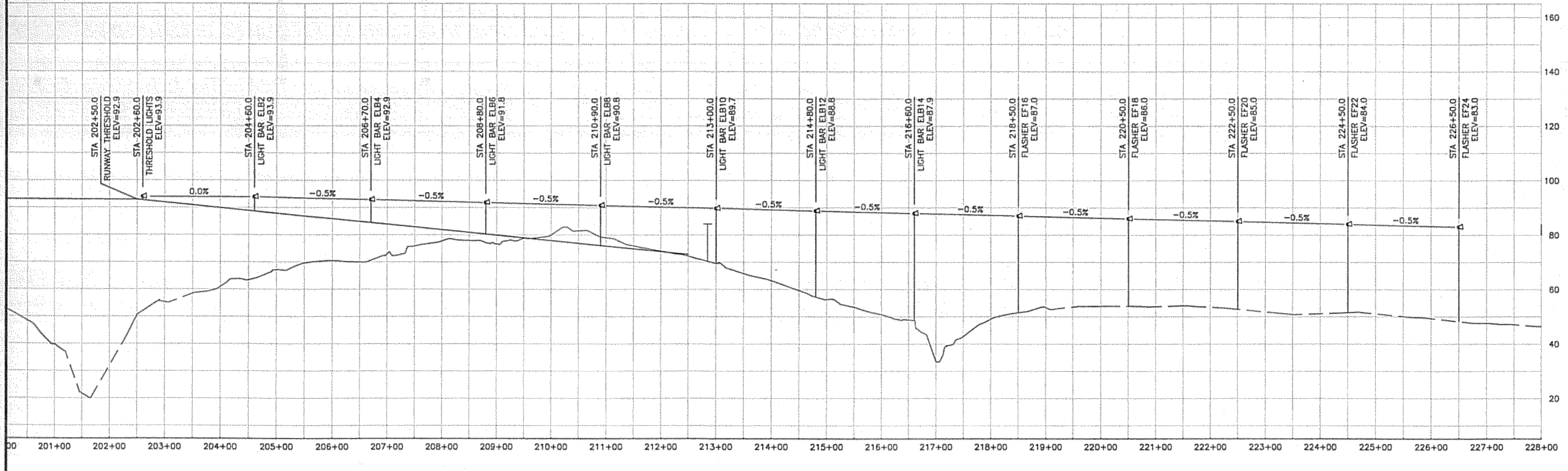
STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
G19	131



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NOTE:
 (X) SEE SHEET G21 FOR MALSR CONDUIT SCHEDULE



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ADDENDUM NUMBER		
ATTACHMENT NUMBER		
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 PROJECT NO. 68306

MALSR PLAN & PROFILE - EAST

PREPARED BY: USKH INC.
 CHECKED BY: GRH

DESIGNED BY: LPS
 DRAWN BY: LPS

STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
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 DIVISION - SOUTHEAST REGION

MALSR PLAN & PROFILE - EAST

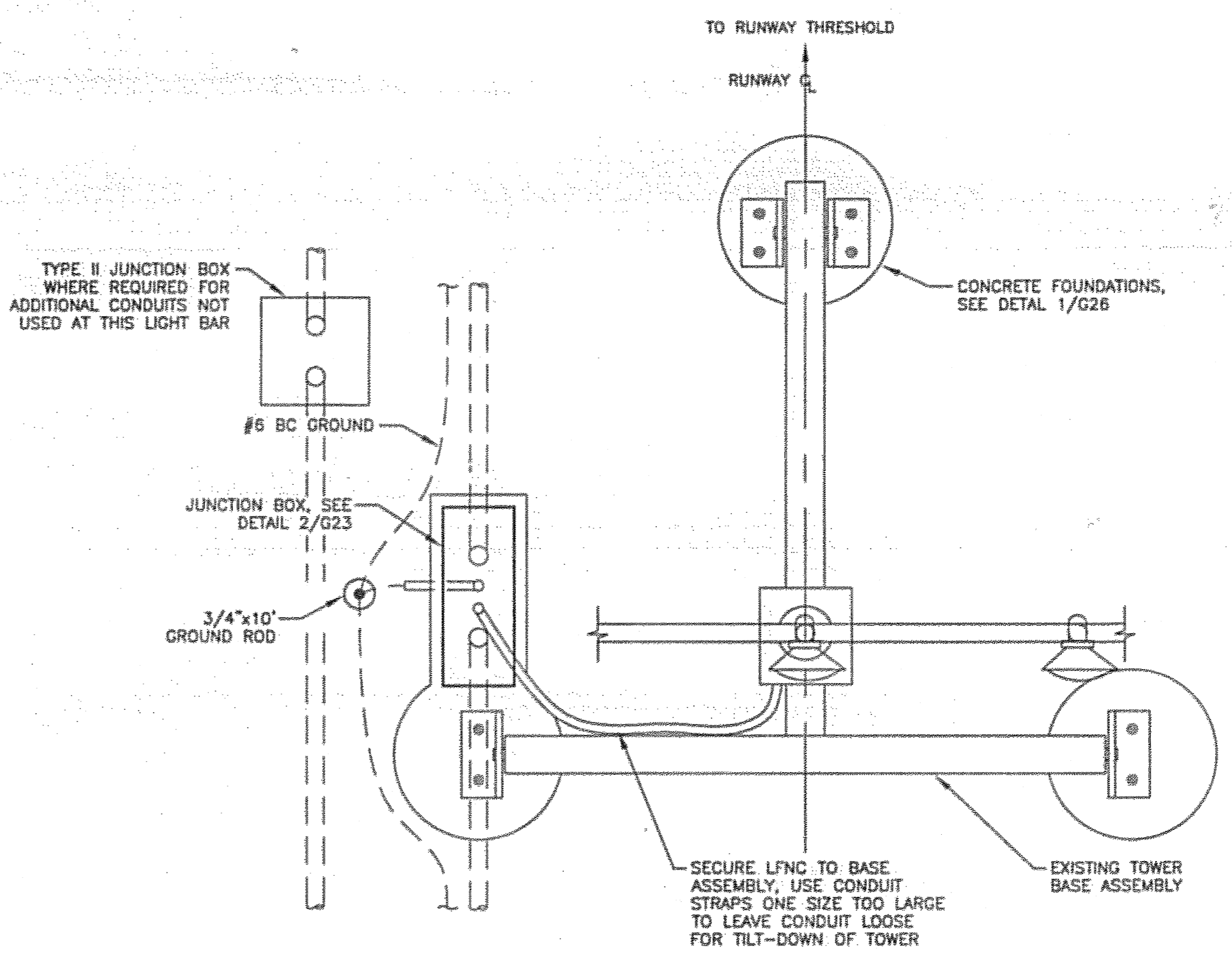
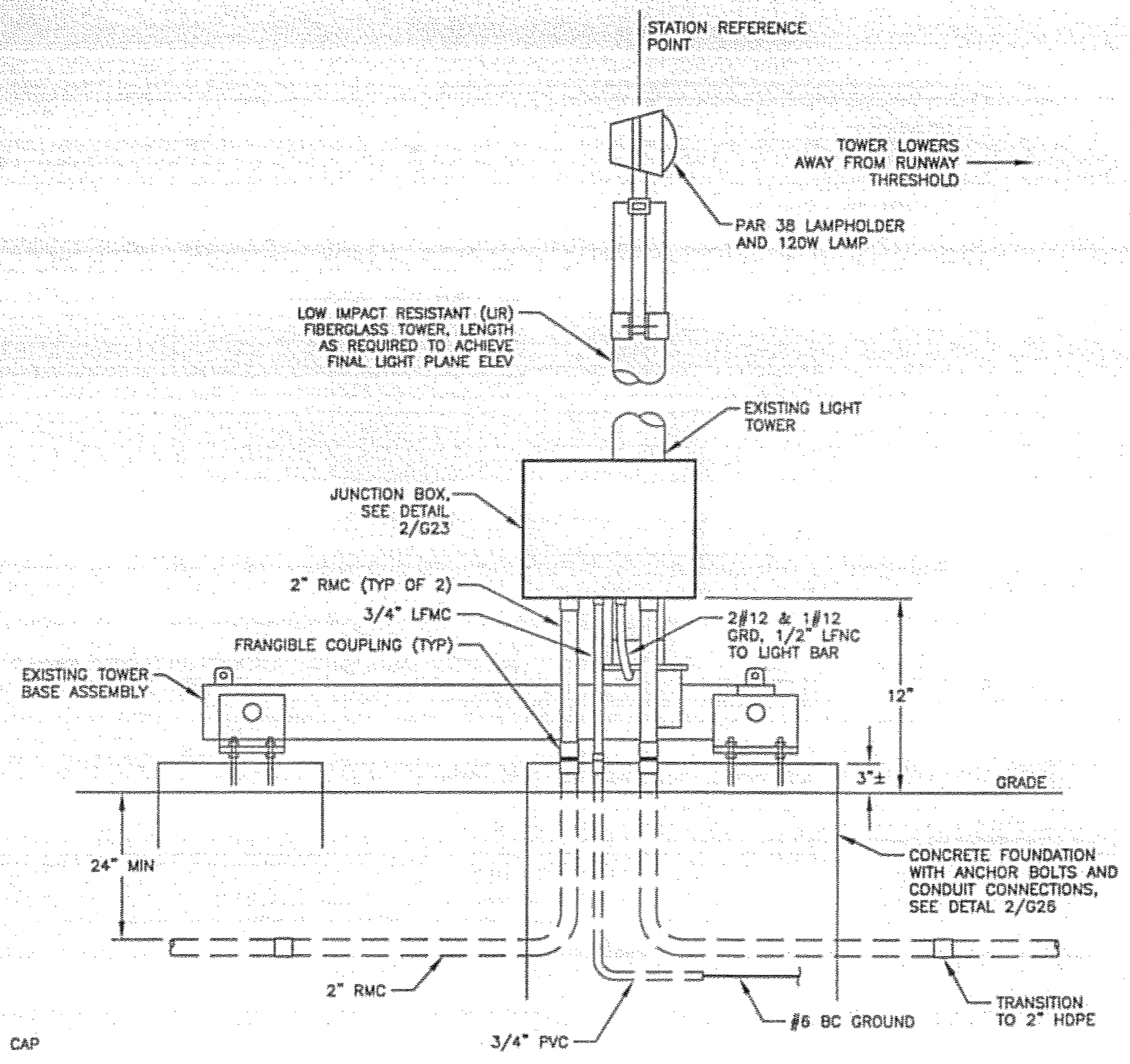
PROJECT DESIGNATION
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STATE	YEAR
ALASKA	2006
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G20	131

RECORD OF REVISIONS		
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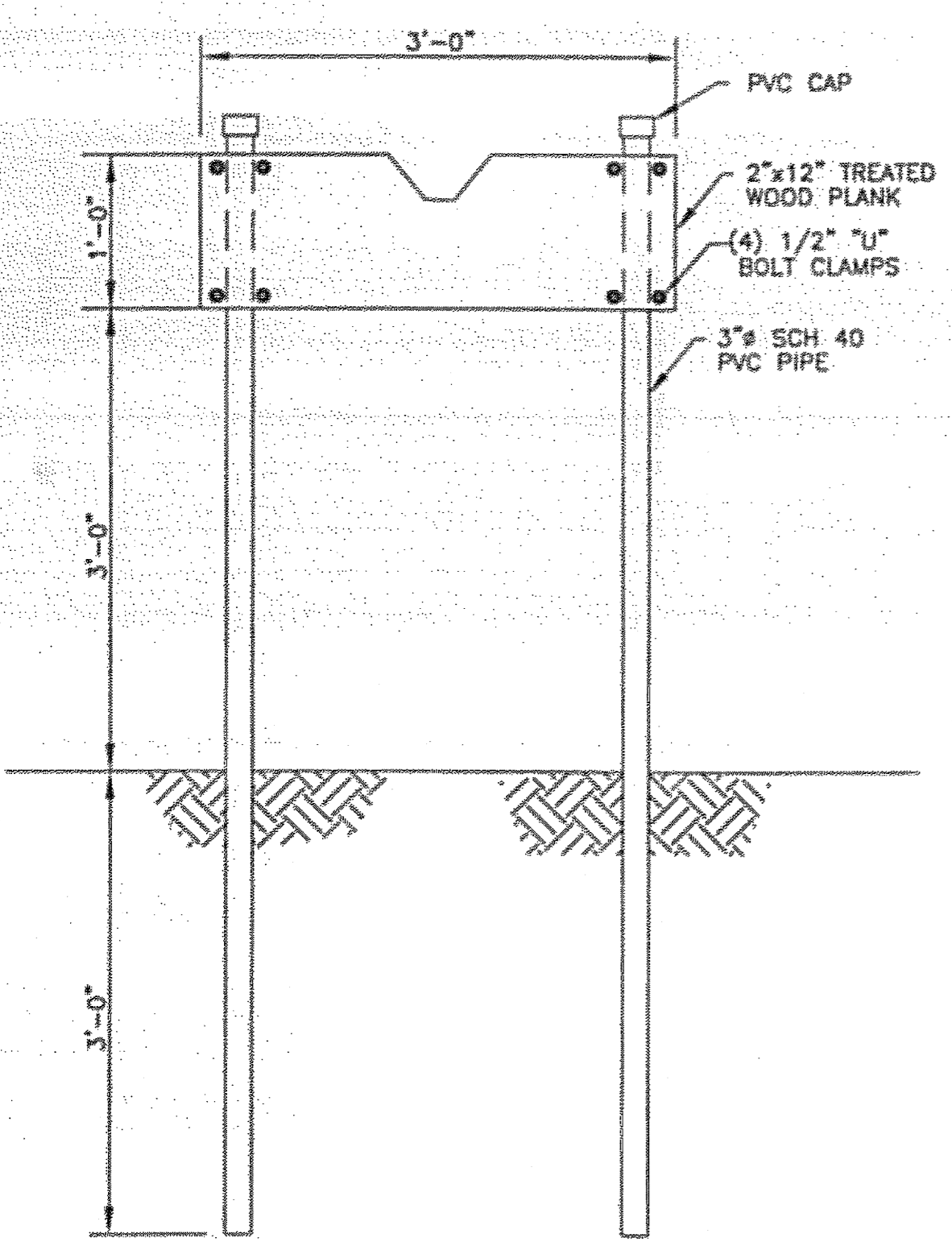
KETCHIKAN AIRPORT
 RUNWAY SAFETY AREA EXPANSION
 & RUNWAY OVERLAY
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MALSRS DETAILS



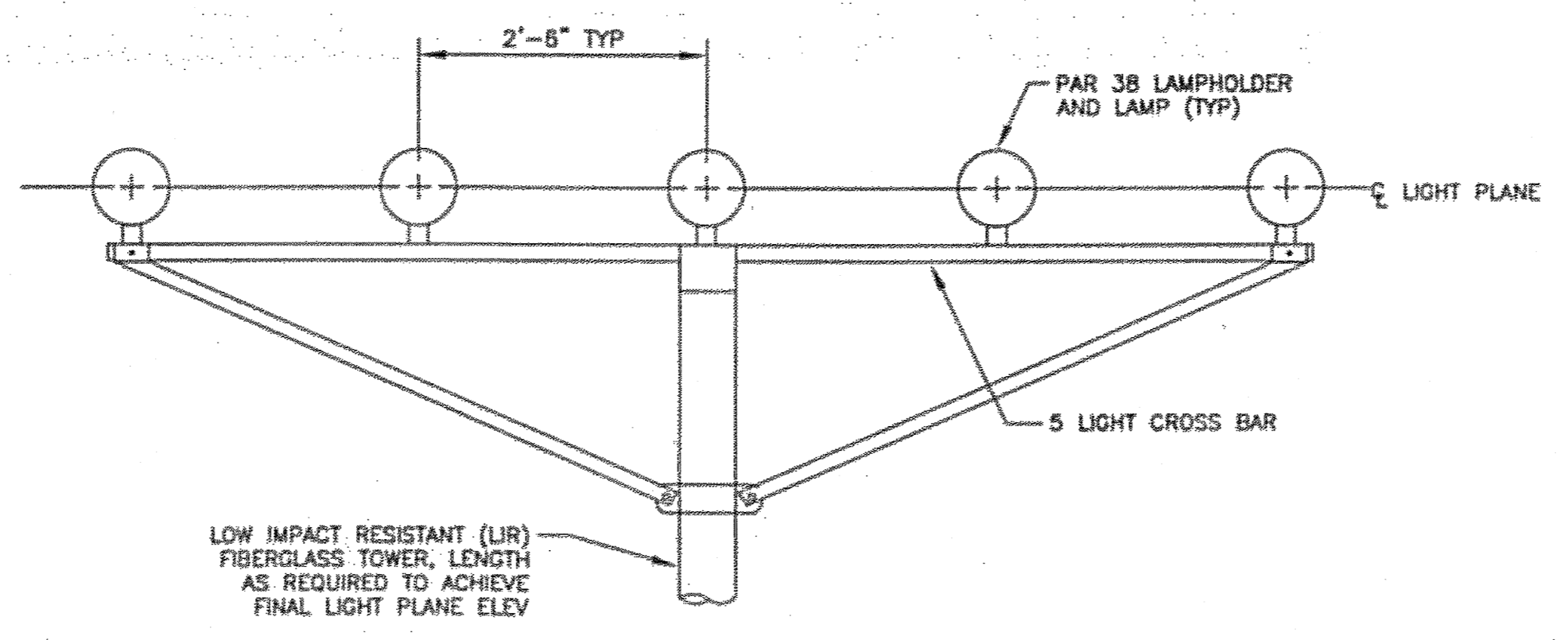
1 LIGHT BAR TOWER DETAILS - WITH GUY WIRES
 G22 N.T.S.

NOTE:
 GUY WIRES NOT SHOWN FOR CLARITY



NOTE:
 PROVIDE ONE MAST SUPPORT FOR EACH MALSRS MAST AND ONE FOR THE RVR MAST. COORDINATE LOCATION WITH MAST HEIGHT.

4 MAST SUPPORT
 G22 N.T.S.



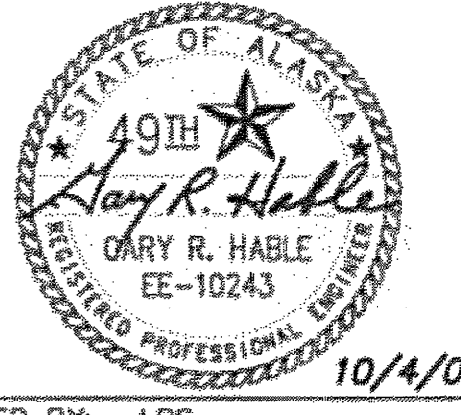
3 LIGHT BAR DETAIL
 G22 N.T.S.

2 LIGHT BAR ASSEMBLY/LAMPHOLDER DETAIL
 G22 N.T.S.

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PREPARED BY: USKH INC.

CHECKED BY: GRH



DESIGNED BY: LPS

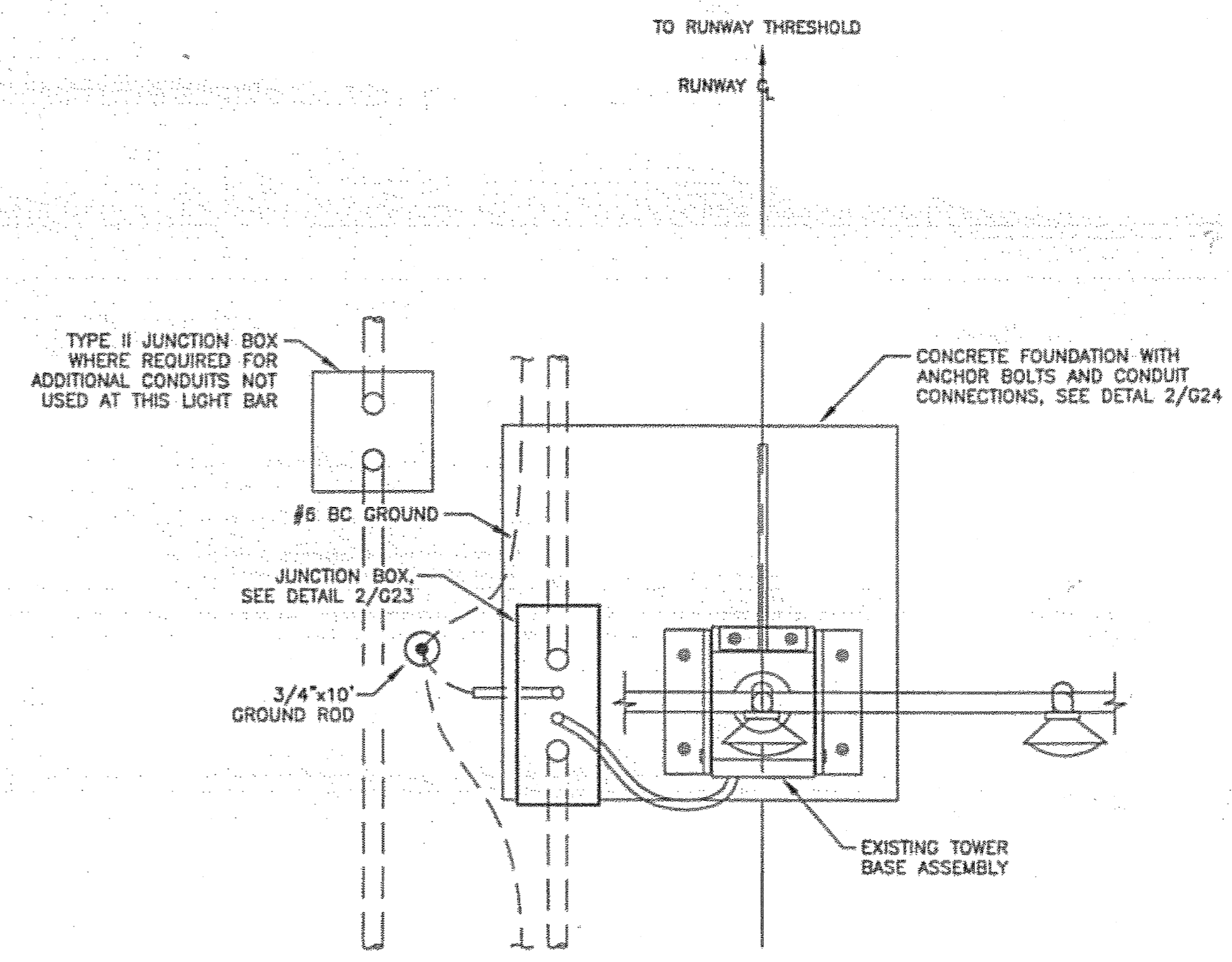
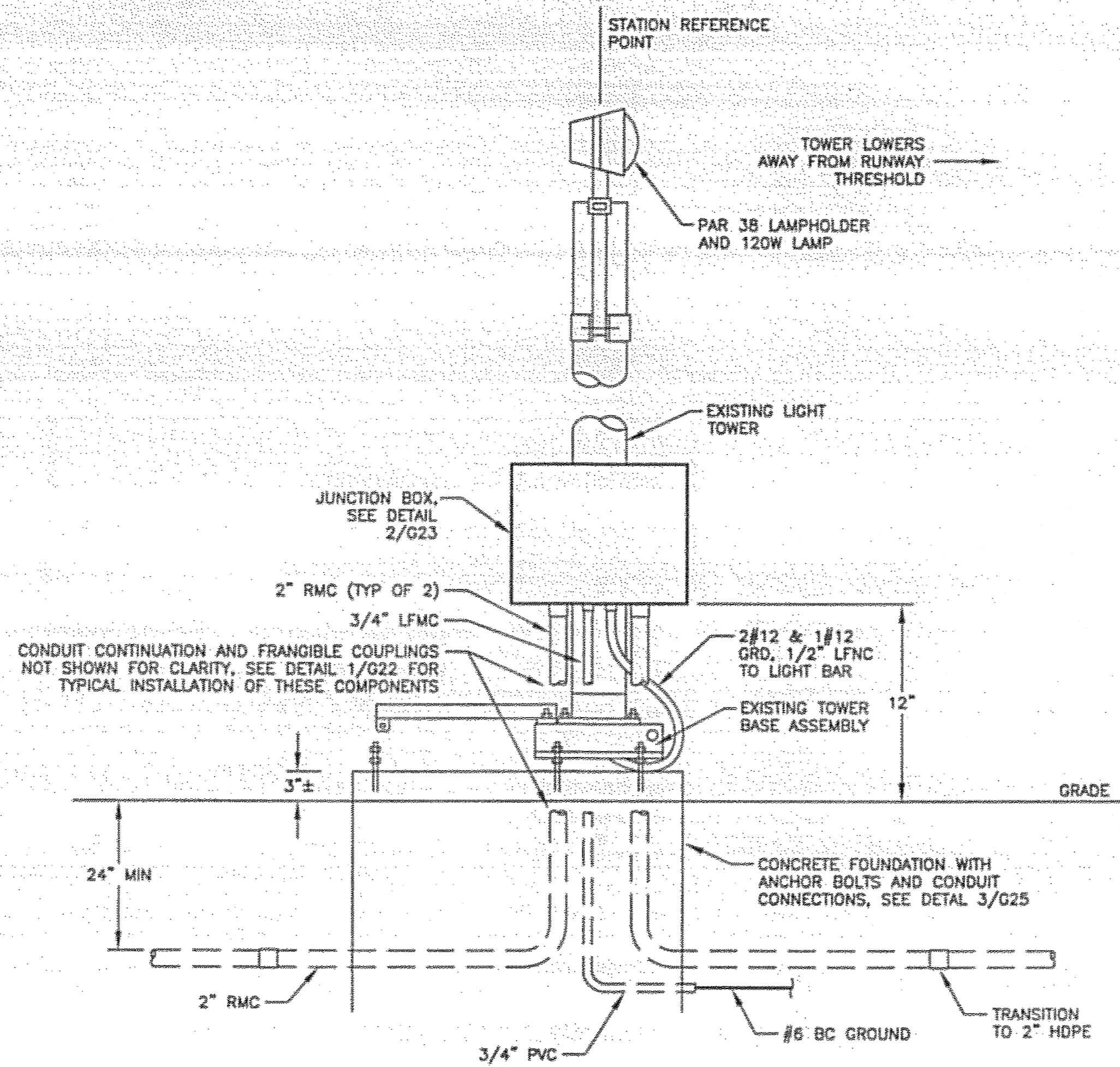
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STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 & PUBLIC FACILITIES
 DESIGN & ENGINEERING SERVICES
 DIVISION - SOUTHEAST REGION

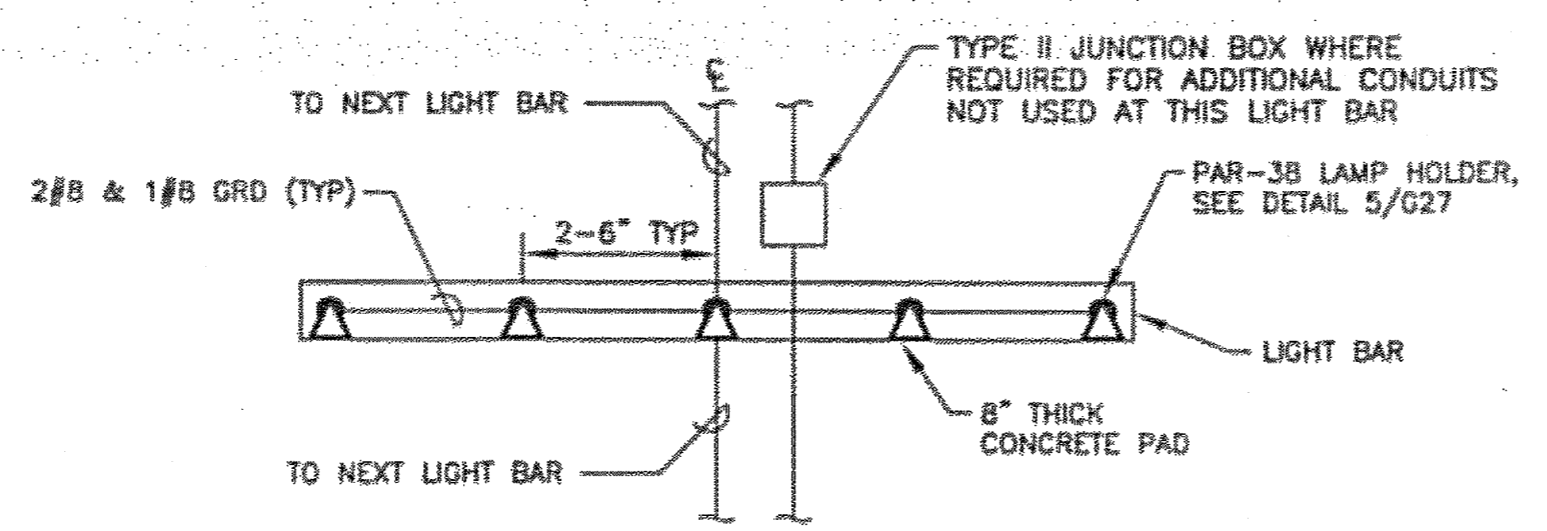
MALSRS DETAILS

PROJECT DESIGNATION
 AIP NO. 3-02-0144-1606

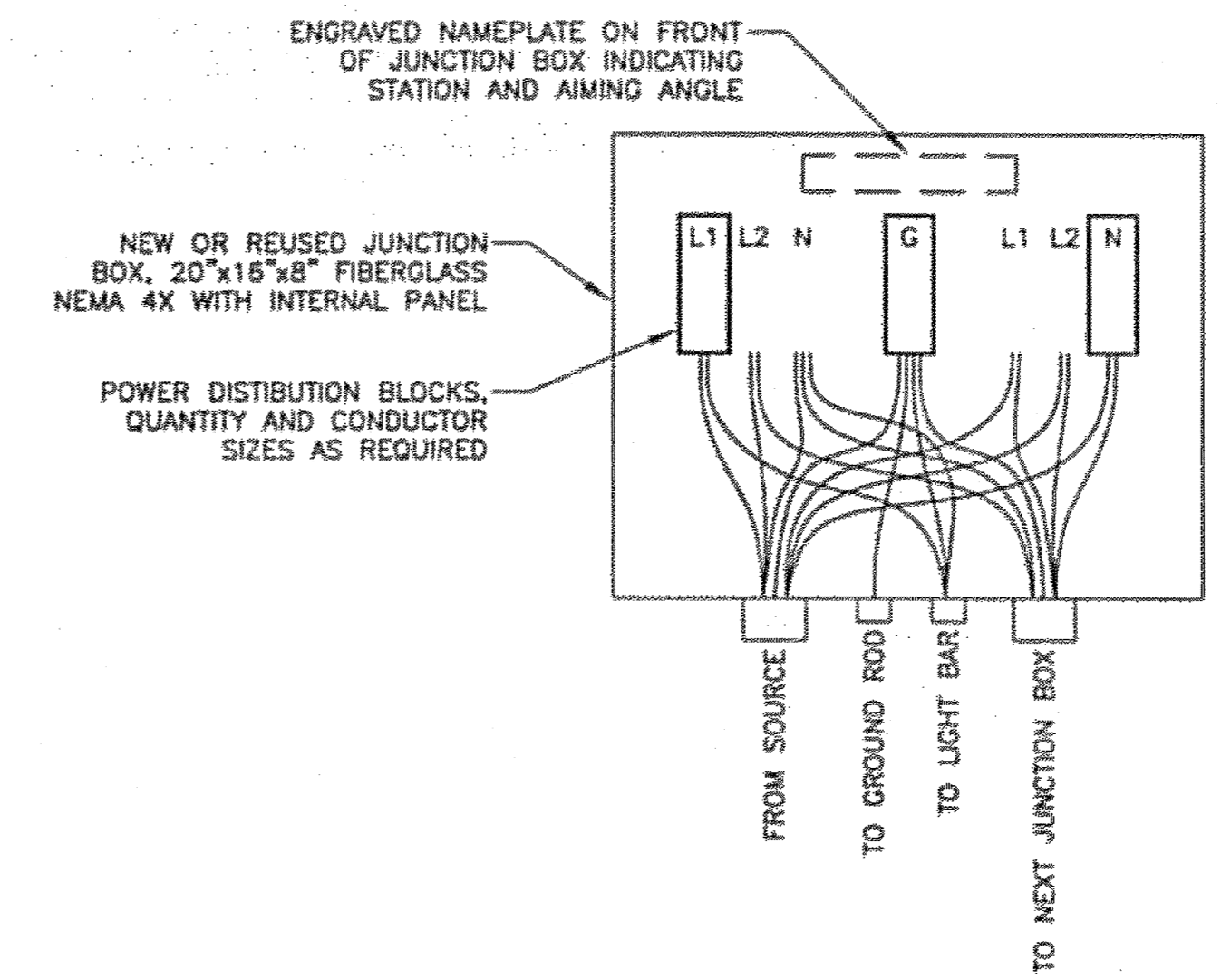
STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
G22	131



1 LIGHT BAR TOWER DETAILS - WITHOUT GUY WIRES
G23 N.T.S.



3 BASE MOUNTED LIGHT BAR PLAN
G23 N.T.S.



2 LIGHT BAR JUNCTION BOX
G23 N.T.S.

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

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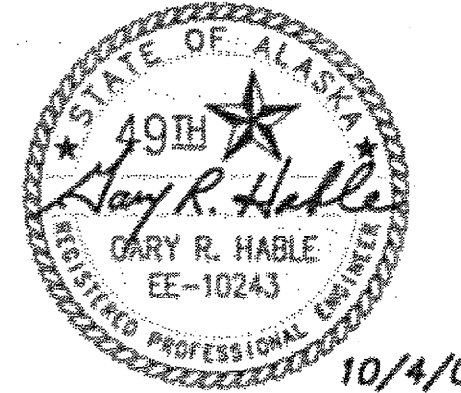
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ATTACHMENT NUMBER		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION

KETCHIKAN AIRPORT
RUNWAY SAFETY AREA EXPANSION
& RUNWAY OVERLAY
PROJECT NO. 68306

MALSR DETAILS

PREPARED BY: USKH INC.

CHECKED BY: GRH



DESIGNED BY: LPS

DRAWN BY: LPS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES
DIVISION - SOUTHEAST REGION

MALSR DETAILS

PROJECT DESIGNATION
AIP NO. 3-02-0144-1606

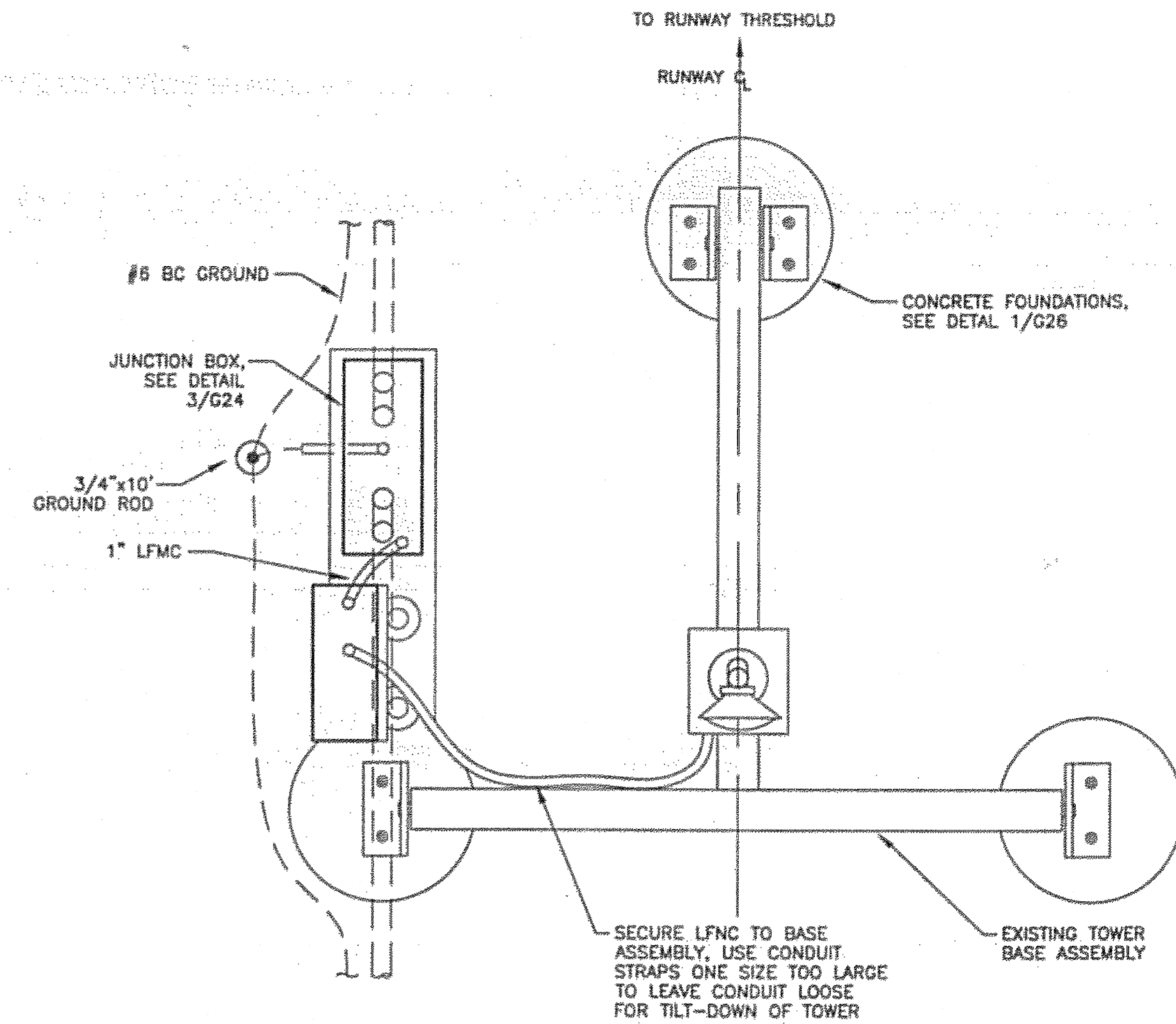
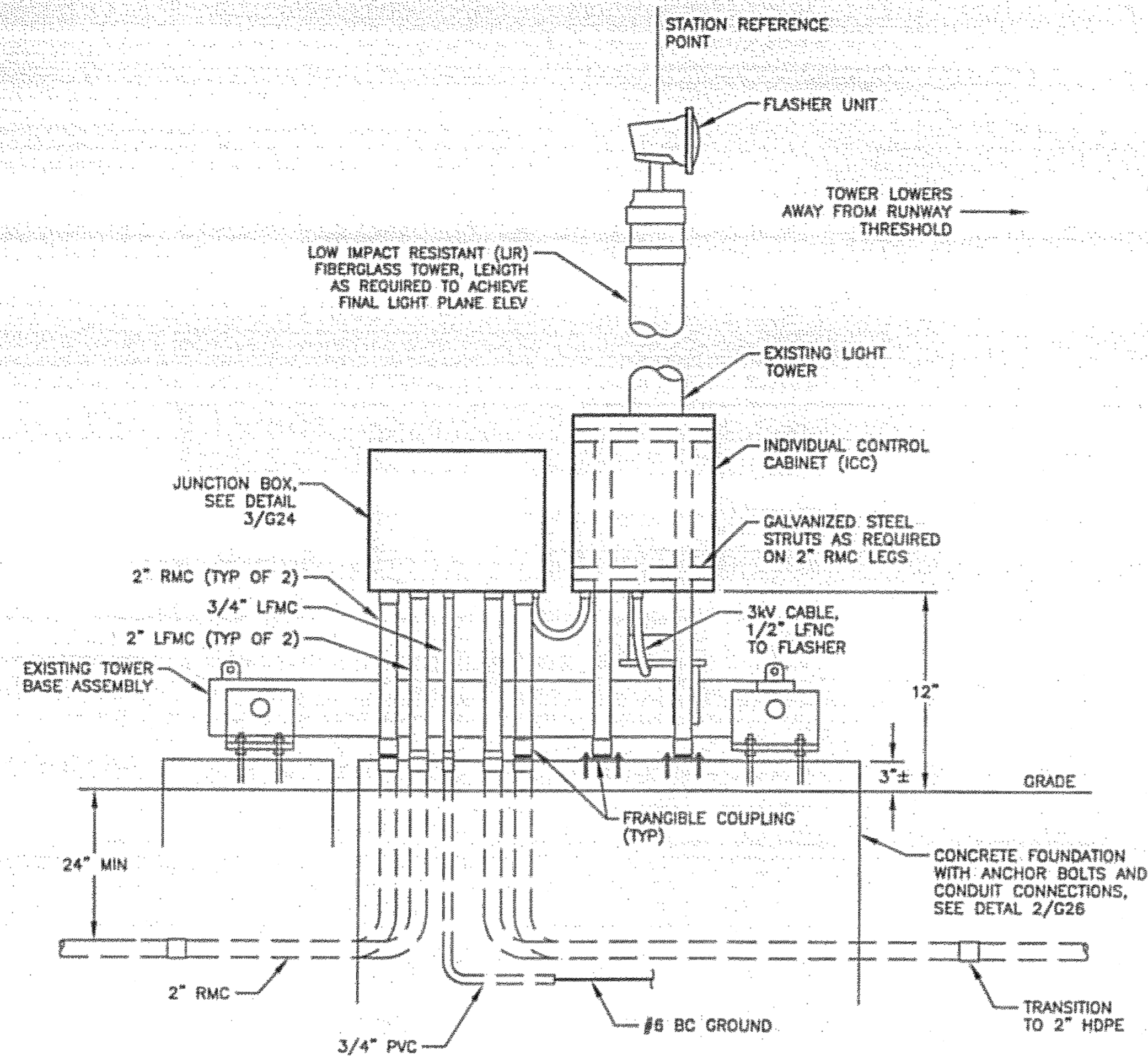
STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
G23	131

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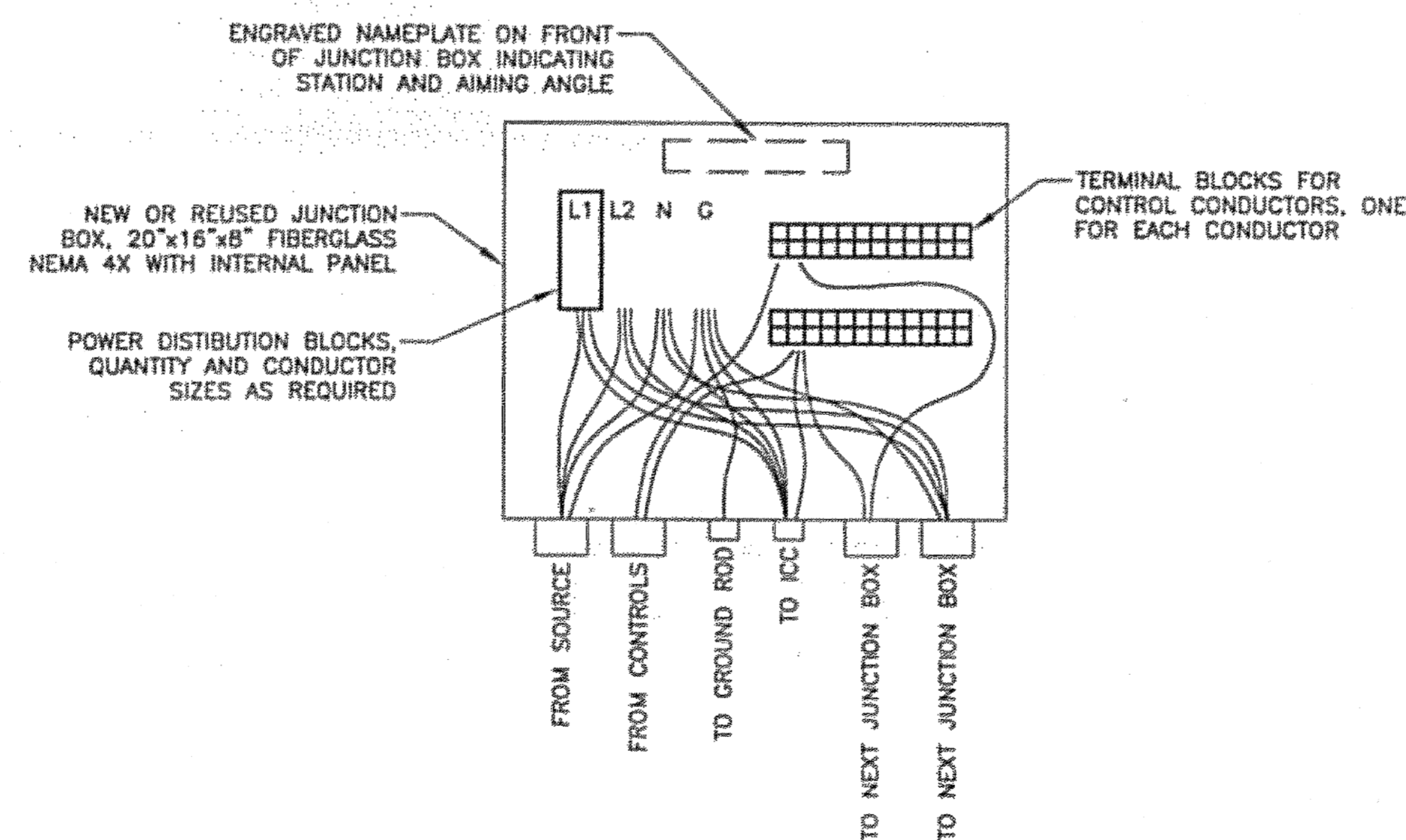
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No.	DATE	DESCRIPTION

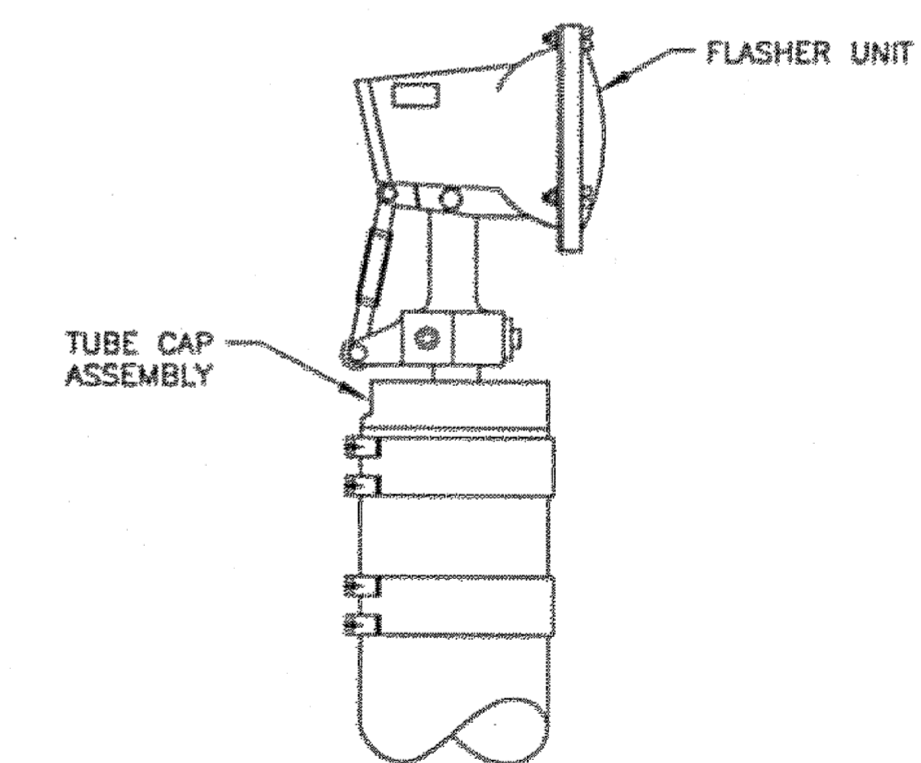


1 **FLASHER TOWER DETAILS - WITH GUY WIRES**
 G24 N.T.S.

NOTE:
 GUY WIRES NOT SHOWN FOR CLARITY



3 **FLASHER JUNCTION BOX**
 G24 N.T.S.



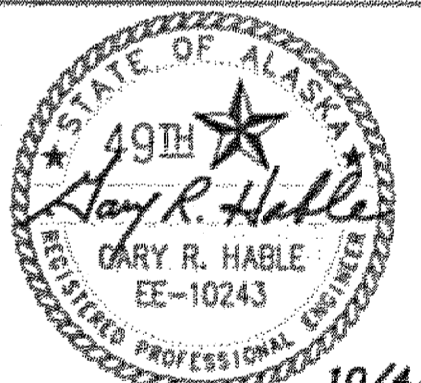
2 **FLASHER UNIT DETAIL**
 G24 N.T.S.

KETCHIKAN AIRPORT
 RUNWAY SAFETY AREA EXPANSION
 & RUNWAY OVERLAY
 PROJECT NO. 68306

MALSR DETAILS

PREPARED BY: USKH INC.

CHECKED BY: GRH



DESIGNED BY: LPS

DRAWN BY: LPS

STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 & PUBLIC FACILITIES
 DESIGN & ENGINEERING SERVICES
 DIVISION - SOUTHEAST REGION

MALSR DETAILS

PROJECT DESIGNATION
 AIP NO. 3-02-0144-1606

STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS

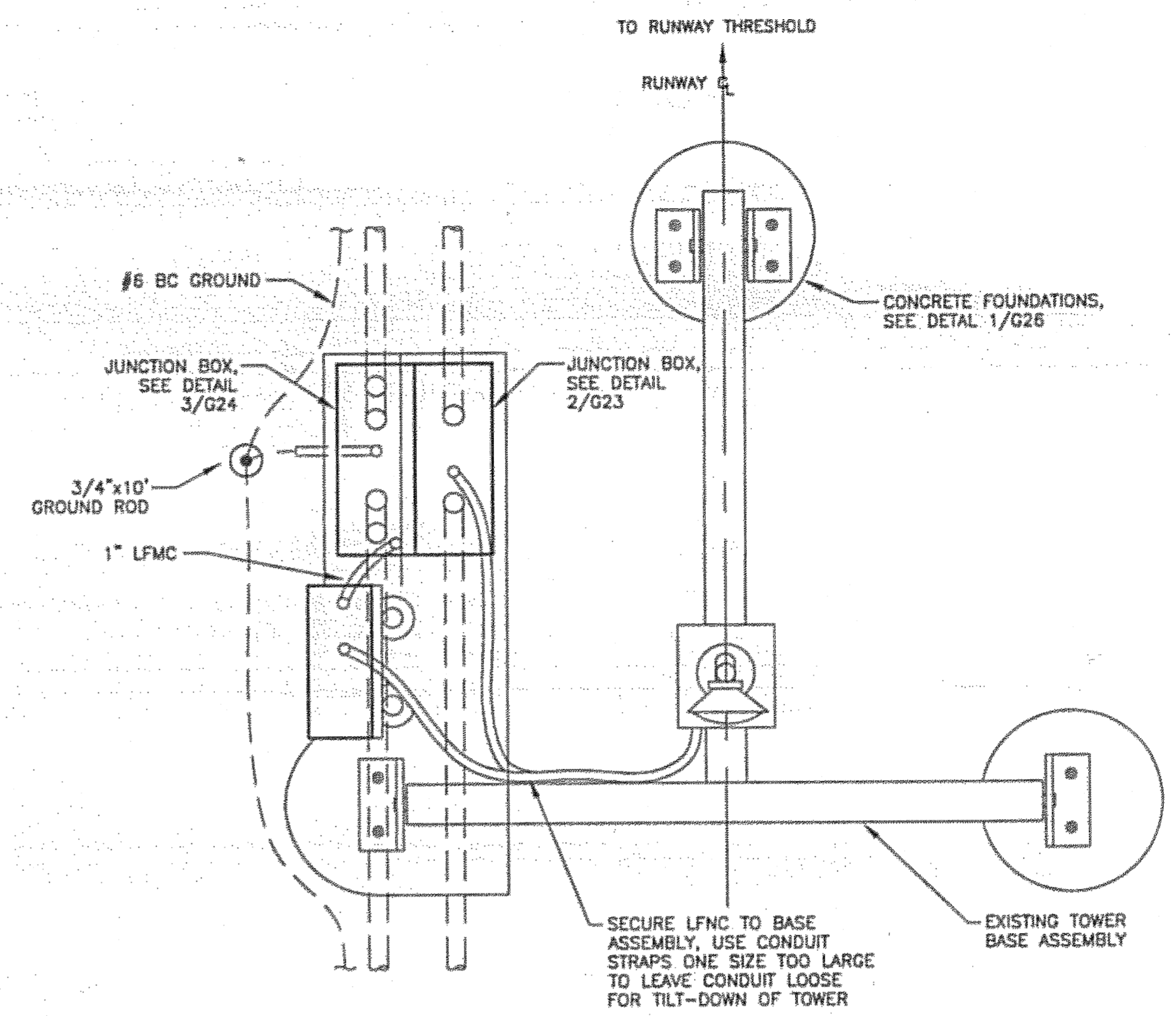
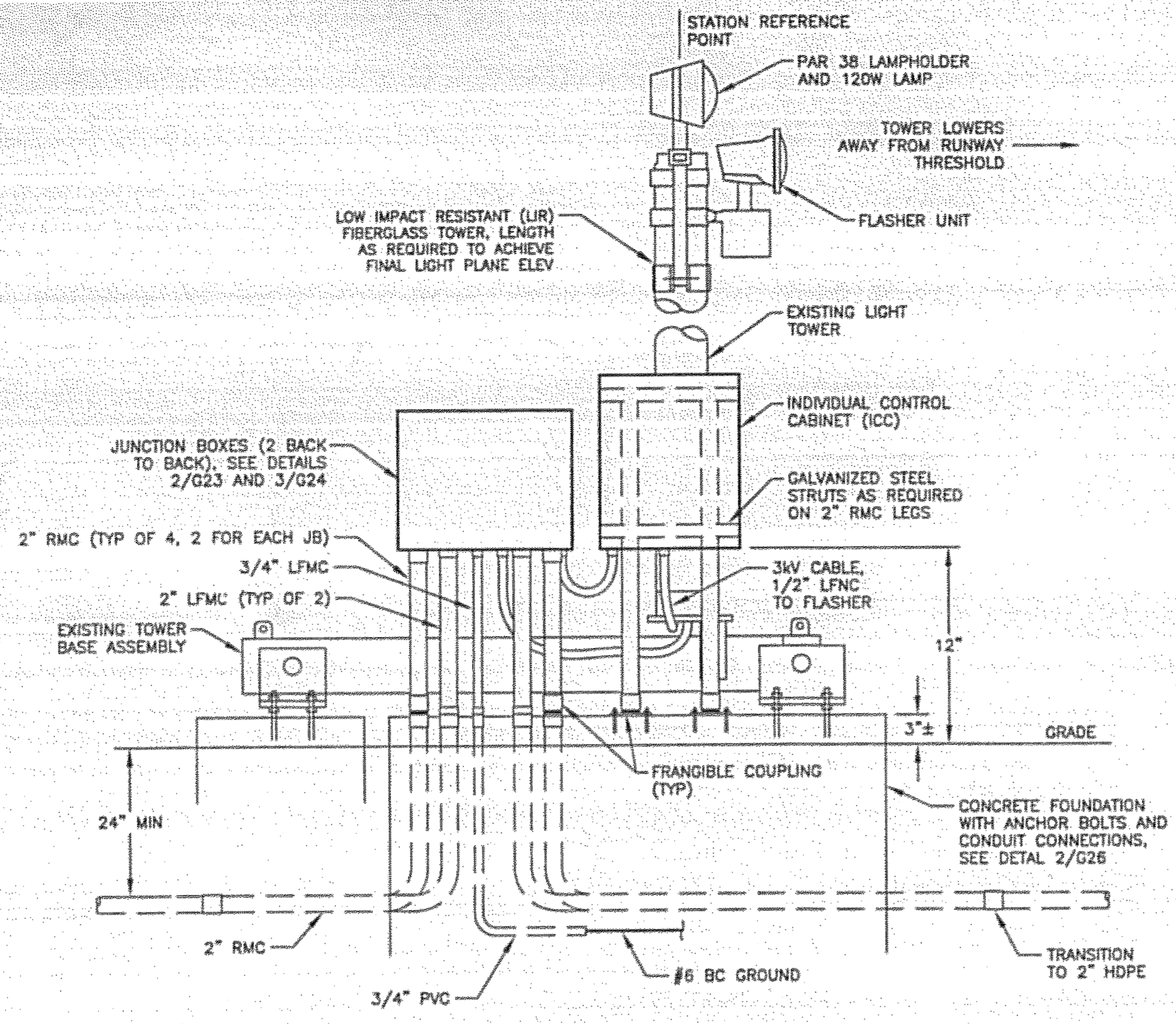
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DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

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ATTACHMENT NUMBER		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION

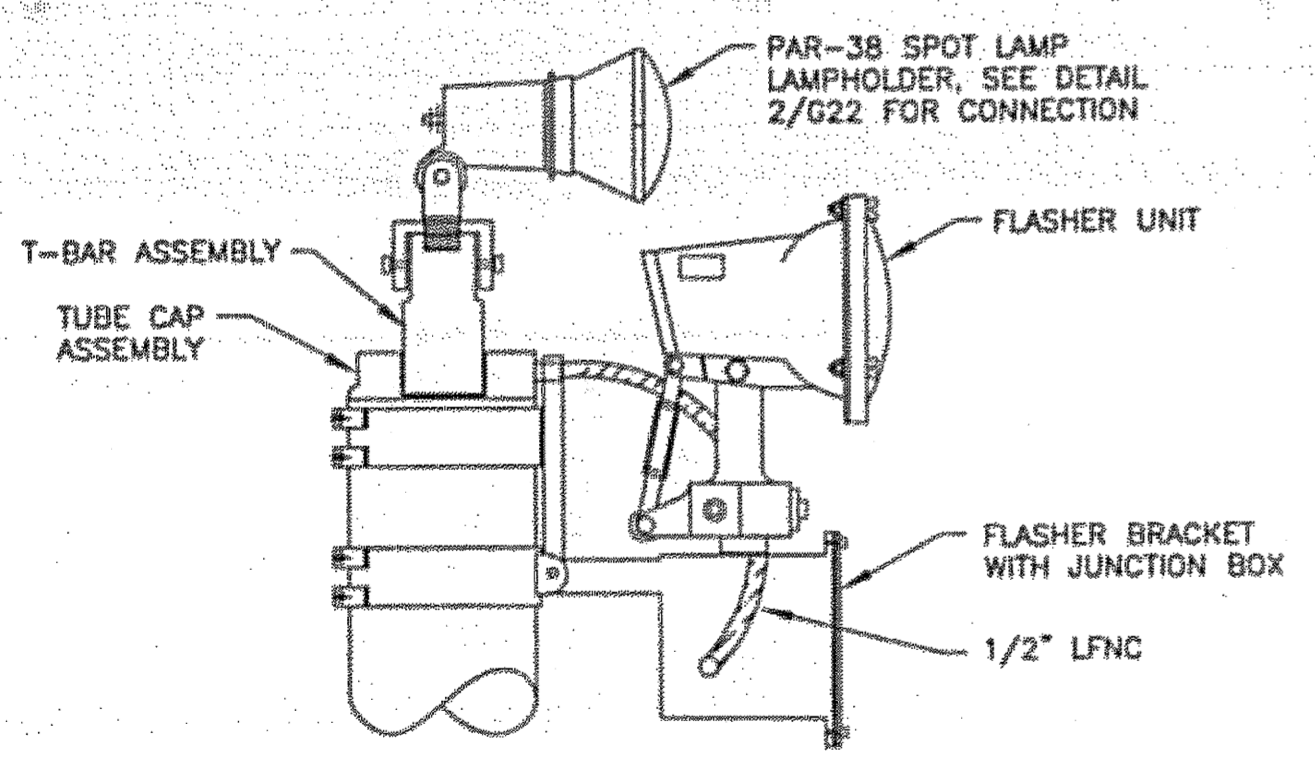
KETCHIKAN AIRPORT
 RUNWAY SAFETY AREA EXPANSION
 & RUNWAY OVERLAY
 PROJECT NO. 68306

MALSR DETAILS

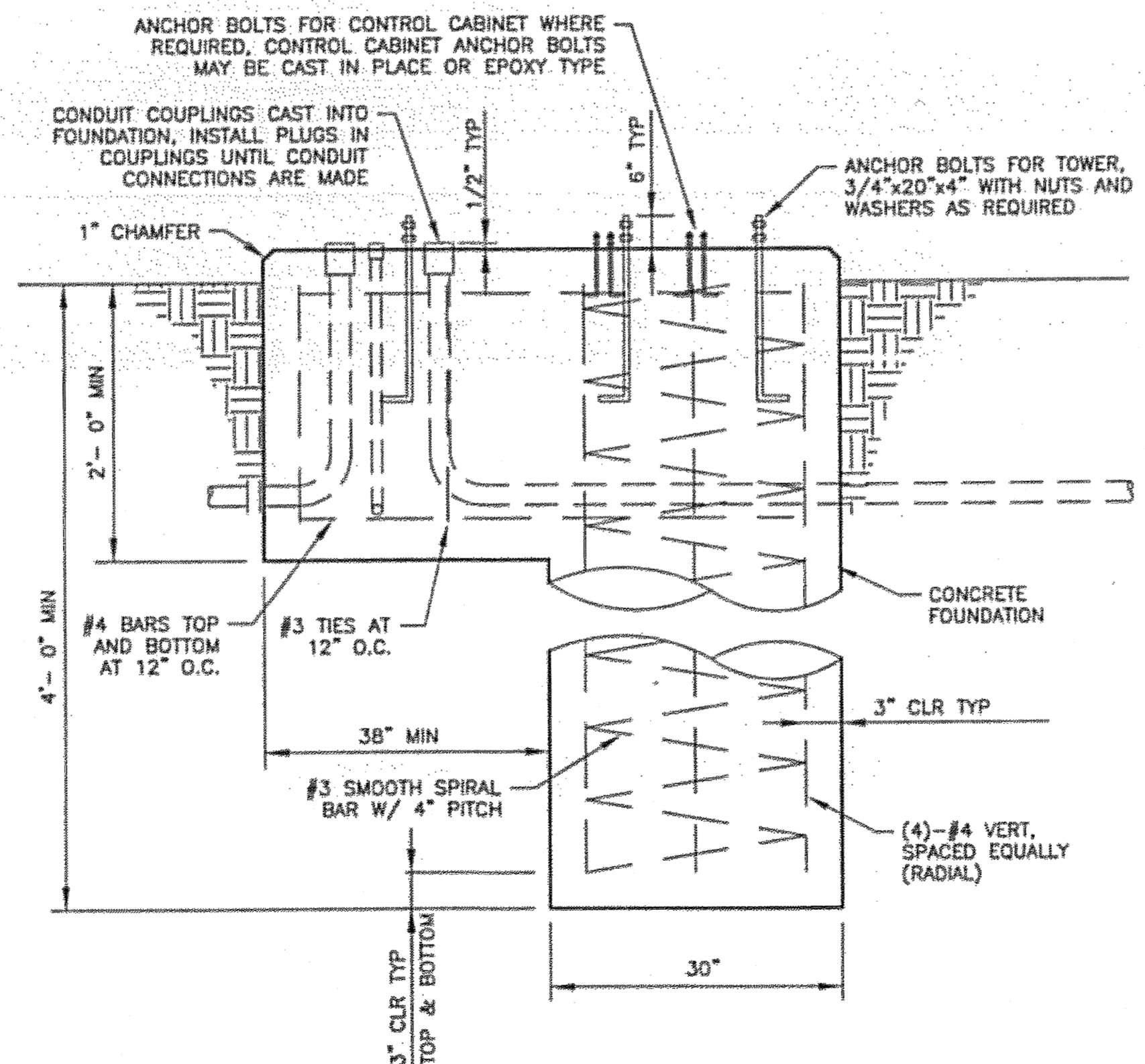


1 LIGHT BAR/FLASHER TOWER DETAILS - WITH GUY WIRES
 G24 N.T.S.

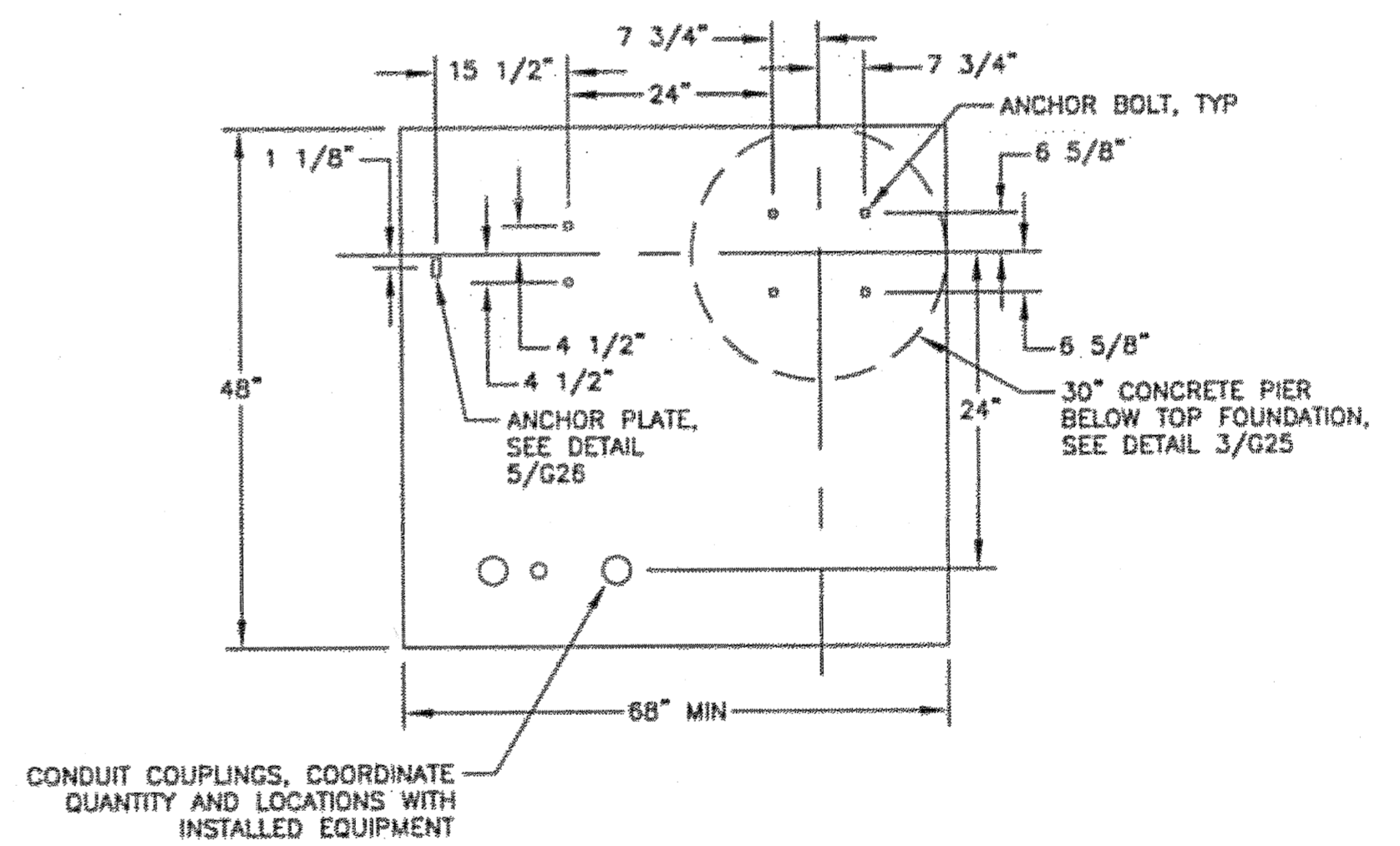
NOTE:
 GUY WIRES NOT SHOWN FOR CLARITY



4 LIGHT BAR/FLASHER UNIT DETAIL
 G25 N.T.S.



3 TOWER FOUNDATION DETAIL
 G25 N.T.S.

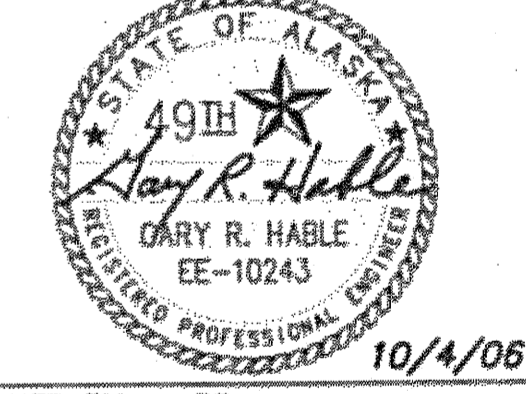


2 TOWER FOUNDATION LAYOUT
 G25 N.T.S.

NOTE:
 CONCRETE ANCHOR BOLT LOCATIONS SHOWN FOR NEW JAQUITH MG-20 BASE ASSEMBLY, ADJUST DIMENSIONS AS REQUIRED WHEN REUSING EXISTING EQUIPMENT

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

PREPARED BY: USKH INC.
 CHECKED BY: GRH



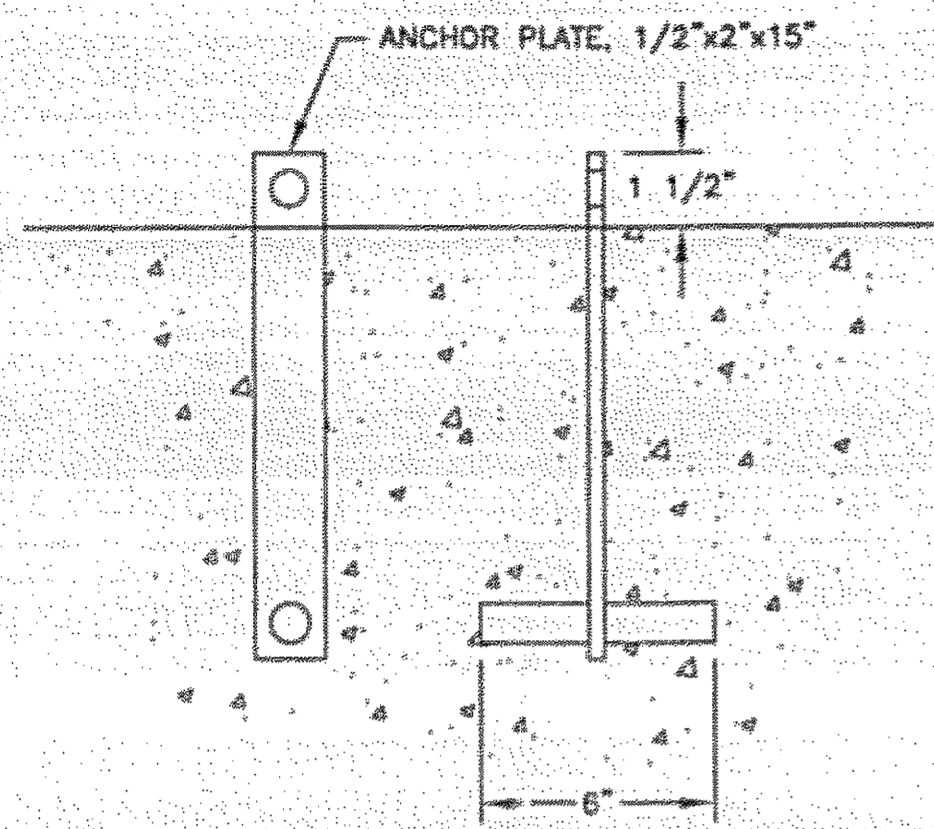
DESIGNED BY: LPS
 DRAWN BY: LPS

STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 & PUBLIC FACILITIES
 DESIGN & ENGINEERING SERVICES
 DIVISION - SOUTHEAST REGION

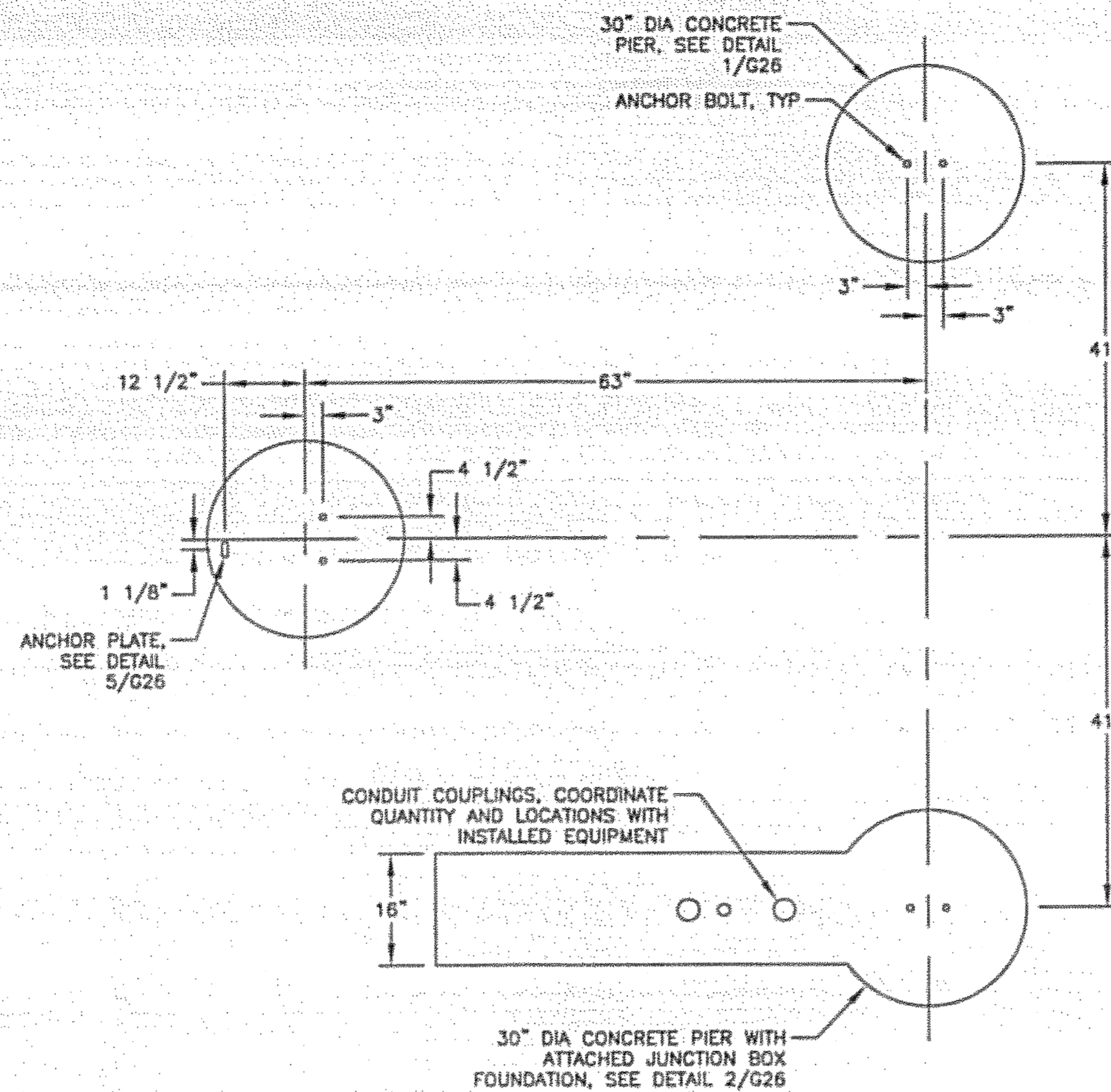
MALSR DETAILS

PROJECT DESIGNATION
 AIP NO. 3-02-0144-1606

STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
G25	131

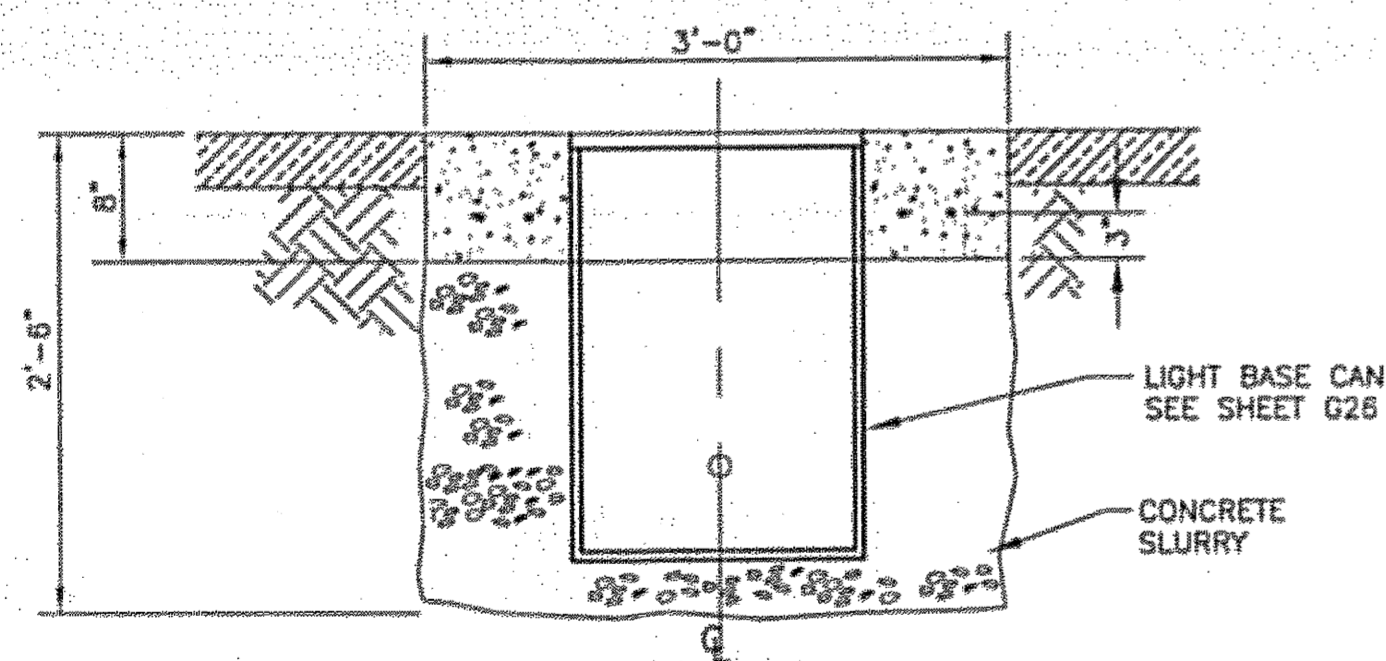


5 ANCHOR PLATE DETAIL
G26 N.T.S.



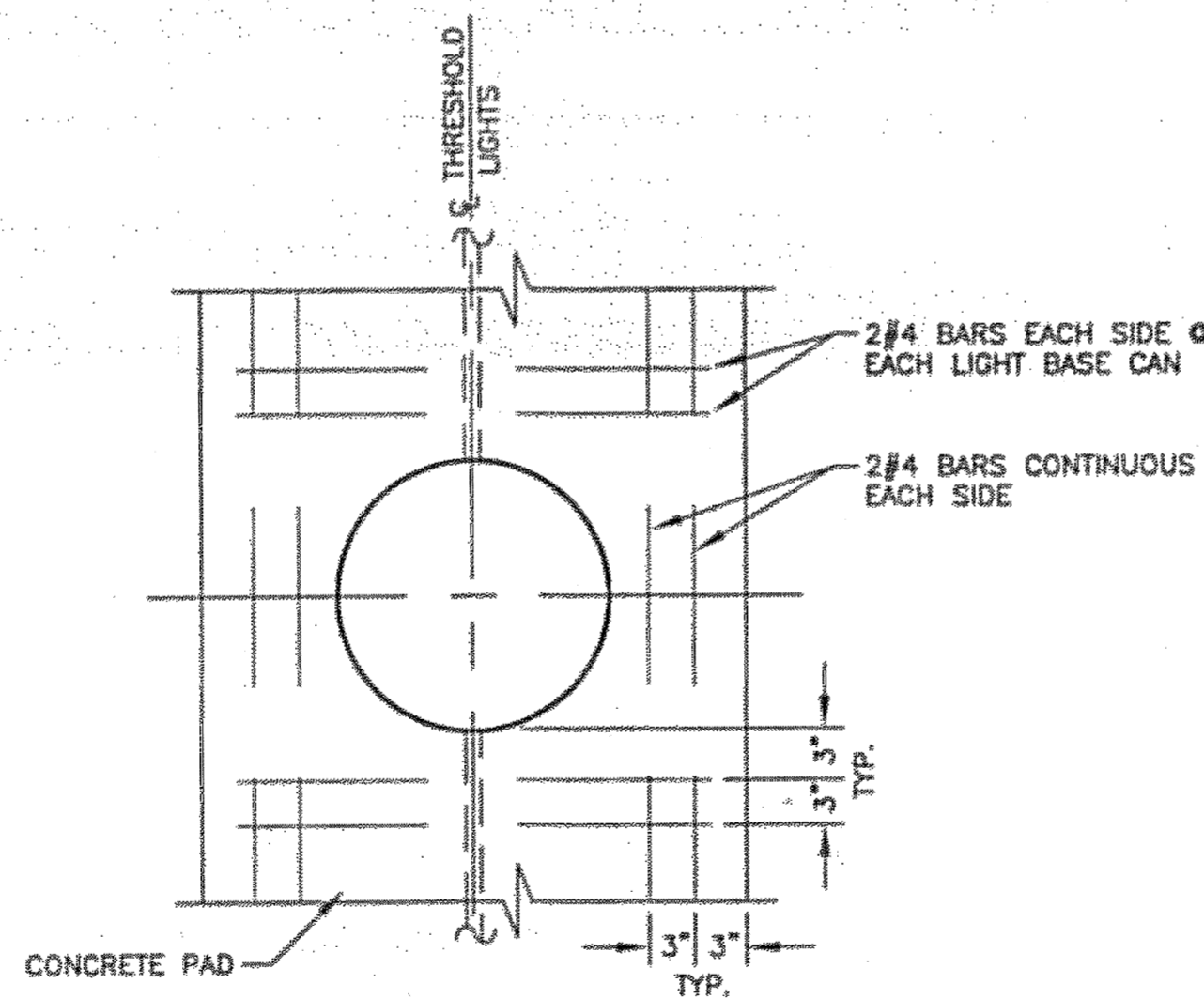
3 TOWER FOUNDATION LAYOUT
G26 N.T.S.

NOTE:
CONCRETE PIER AND ANCHOR BOLT LOCATIONS SHOWN FOR NEW JACUITH MG-30/40 BASE ASSEMBLY. ADJUST DIMENSIONS AS REQUIRED WHEN REUSING EXISTING EQUIPMENT

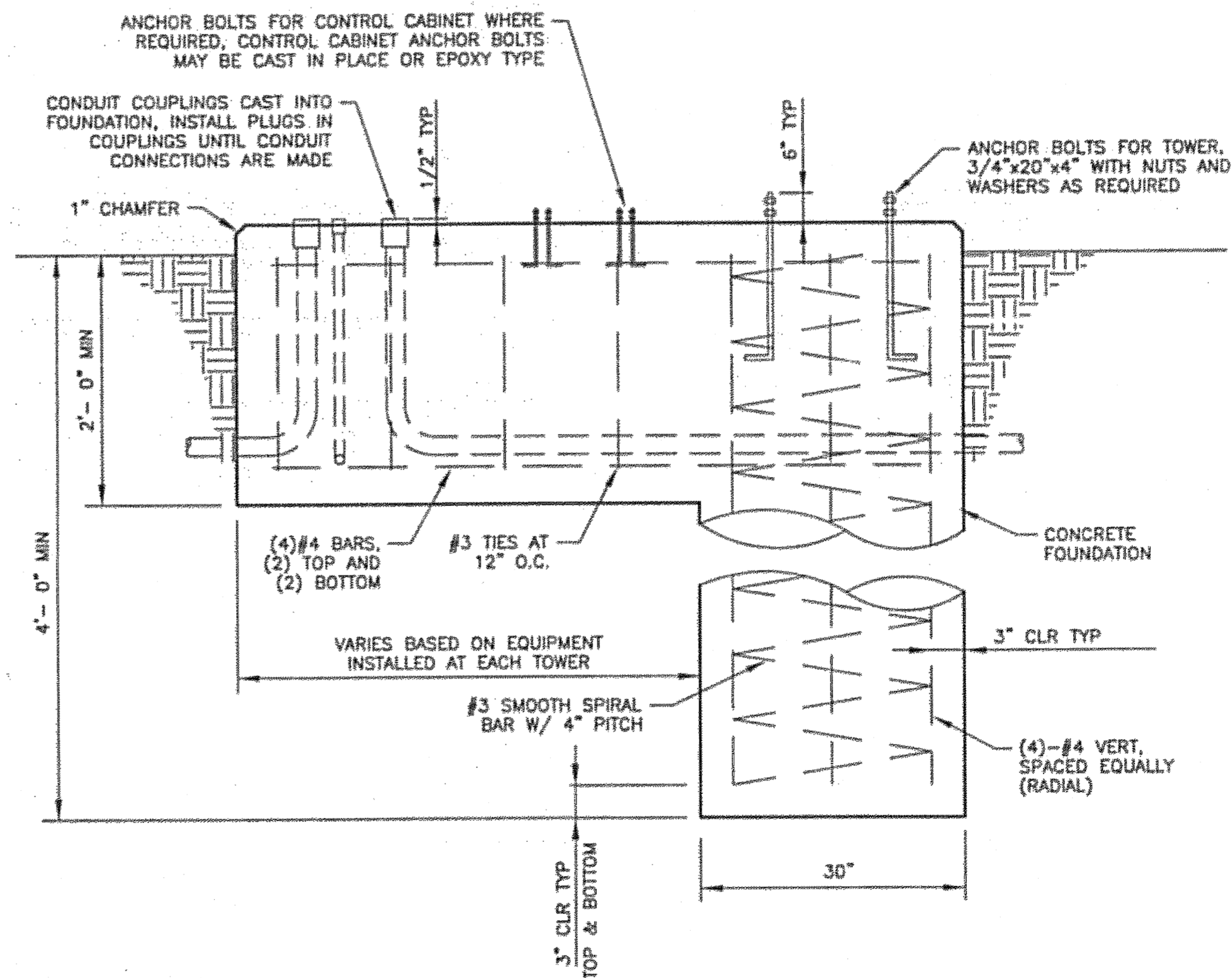


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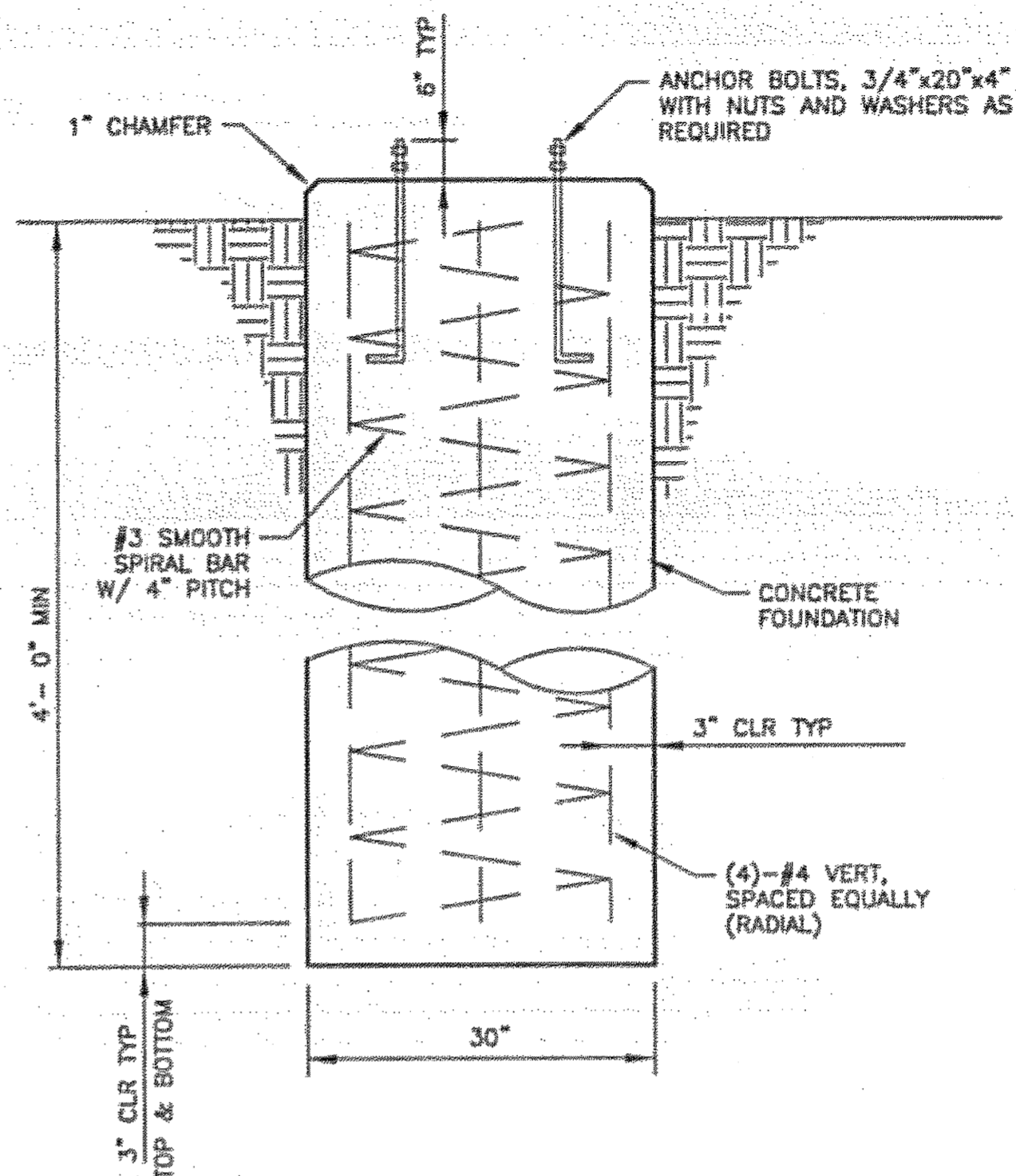
4 BASE MOUNTED LIGHT FOUNDATION DETAILS
G26 N.T.S.



PLAN VIEW



2 CONCRETE PIER WITH JUNCTION BOX FOUNDATION DETAIL
G26 N.T.S.



1 CONCRETE PIER DETAIL
G26 N.T.S.

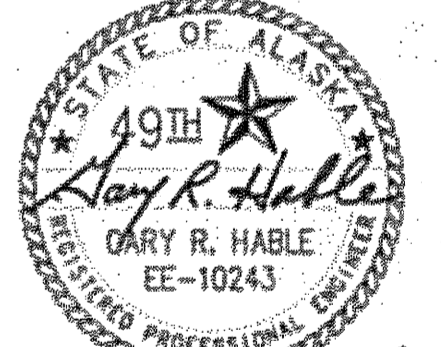
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ADDENDUM NUMBER
ATTACHMENT NUMBER
RECORD OF REVISIONS
No. DATE DESCRIPTION

KETCHIKAN AIRPORT
RUNWAY SAFETY AREA EXPANSION
& RUNWAY OVERLAY
PROJECT NO. 68306

MALSR DETAILS

PREPARED BY: USKH INC.
CHECKED BY: GRH



DESIGNED BY: LPS
DRAWN BY: LPS

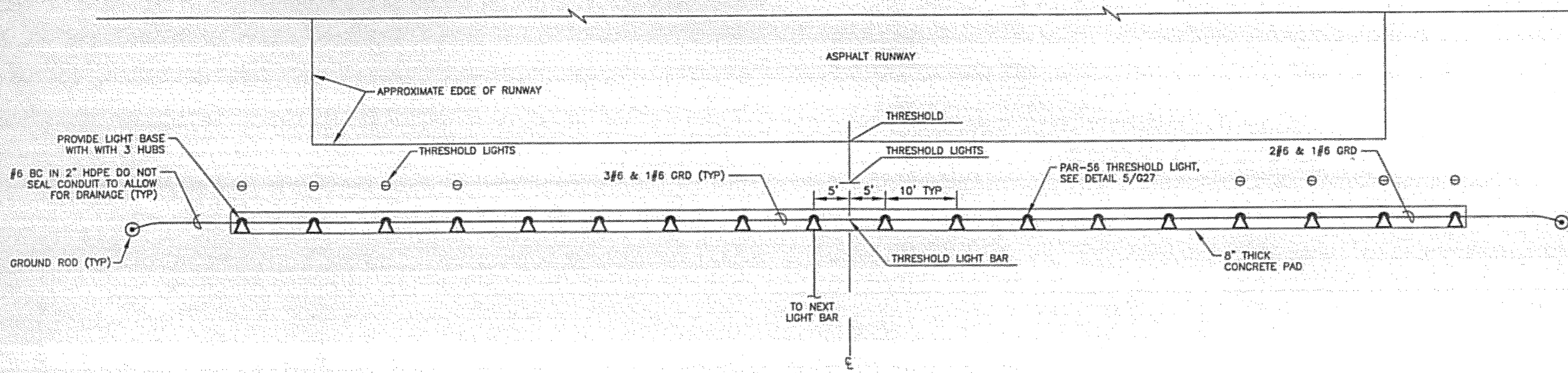
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES
DIVISION-SOUTHEAST REGION

MALSR DETAILS

PROJECT DESIGNATION
AIP NO. 3-02-0144-1606

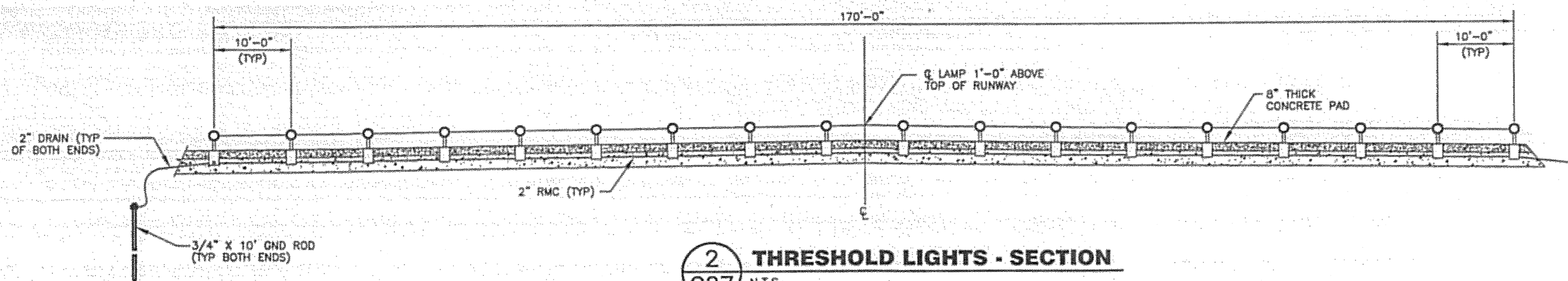
STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
G26	131

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

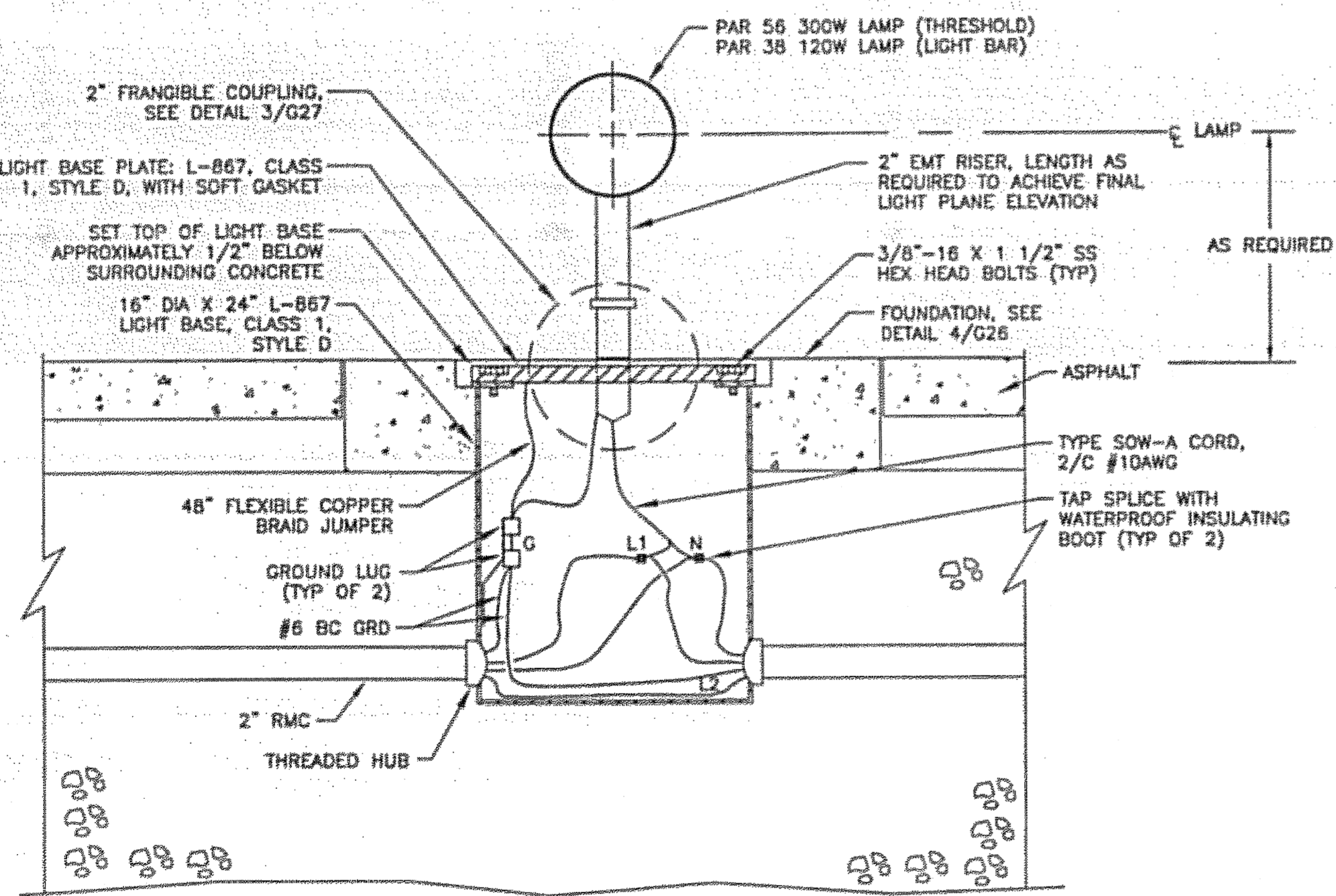


1 THRESHOLD LIGHTS - PLAN
G27 N.T.S.

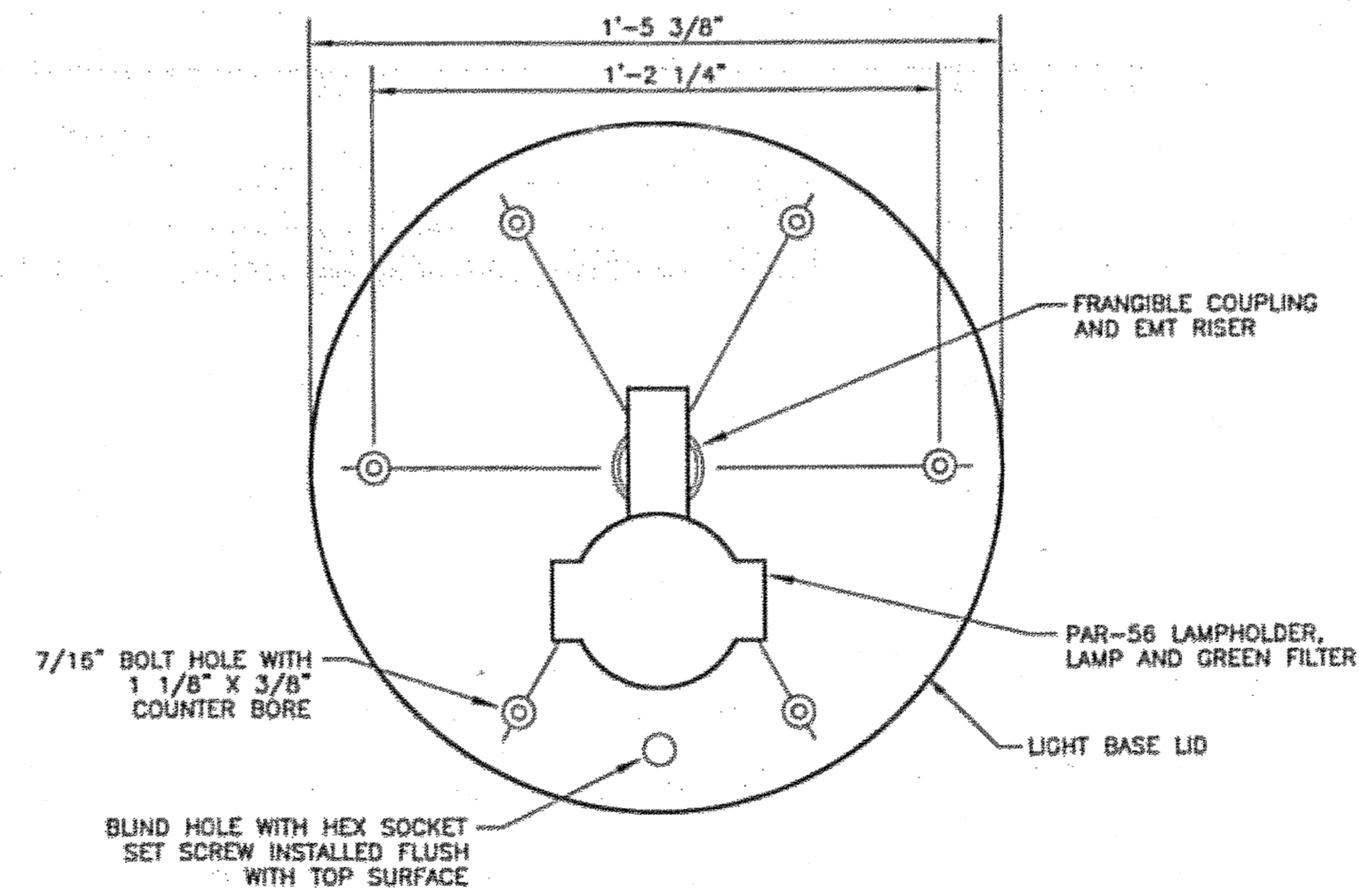
- NOTES:**
1. RELOCATE THE EXISTING THRESHOLD LIGHTS (RW 11) TO THE NEW RUNWAY THRESHOLD OR INSTALL NEW THRESHOLD LIGHTS (RW 29). PROVIDE NEW THRESHOLD LIGHT BASES AND CIRCUITING AS SHOWN.
 2. CONDUITS BELOW GRADE SHALL BE HDPE, EXCEPT INSTALL RIGID GALVANIZED STEEL (RMC) UNDER PADS AND ROADWAYS.
 3. DRILL HOLE IN CABLE CLAMP AND INSTALL GREEN INSULATED GROUND CONDUCTOR FROM GROUND LUG IN LIGHT BASE TO LAMP HOLDER. CARE SHOULD BE TAKEN NOT TO INSTALL CABLE CLAMP UPSIDE DOWN SO THAT WHEN THE FRANGIBLE COUPLING IS SCREWED IN, IT WILL NOT TWIST THE CLAMP AND RECEPTACLE SO AS NOT TO SHORT THE WIRING.



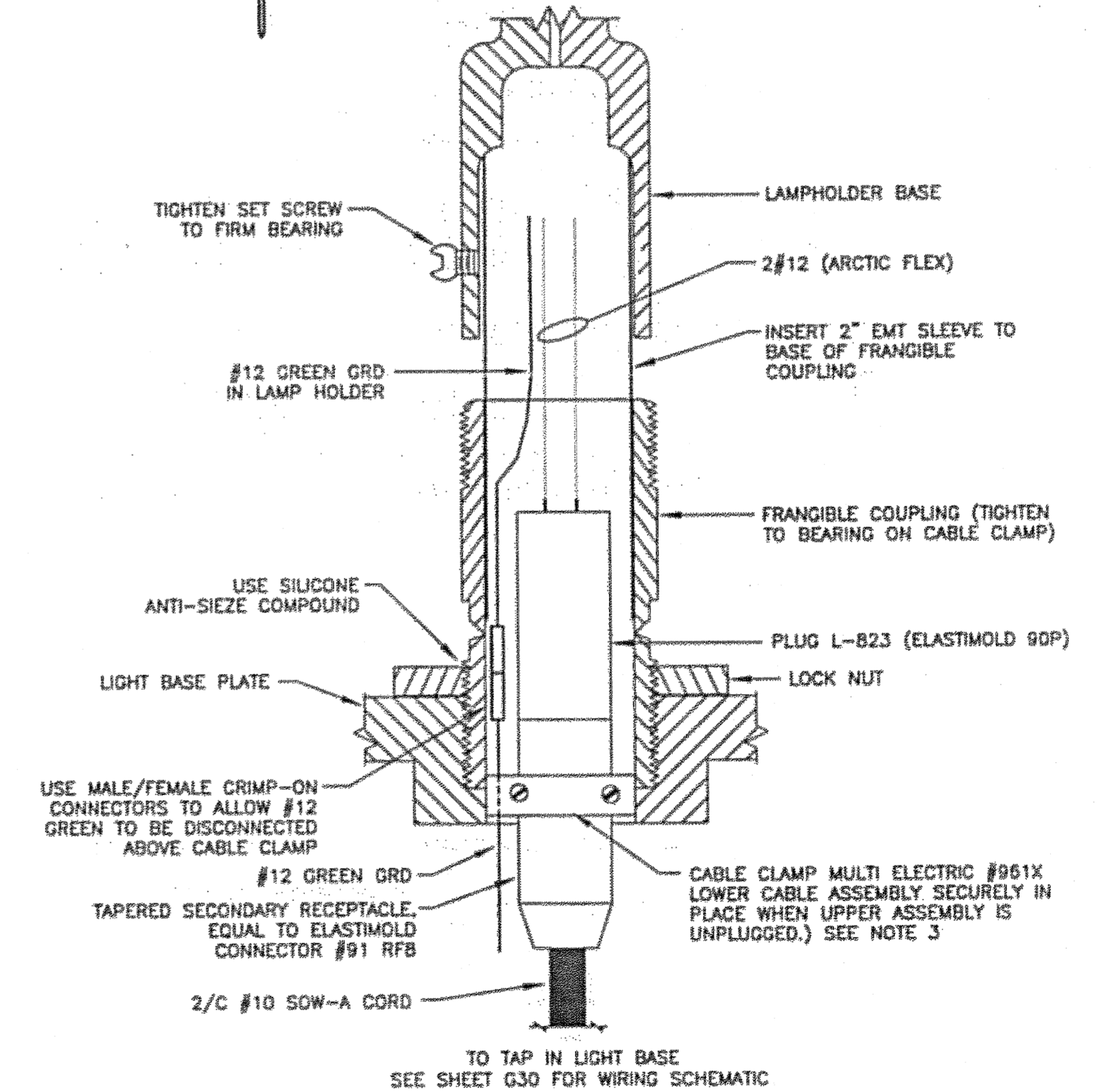
2 THRESHOLD LIGHTS - SECTION
G27 N.T.S.



5 BASE MOUNTED LIGHT - SECTION
G27 N.T.S.



4 BASE MOUNTED LIGHT - PLAN
G27 N.T.S.



3 FRANGIBLE COUPLING DETAIL
G27 N.T.S.

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

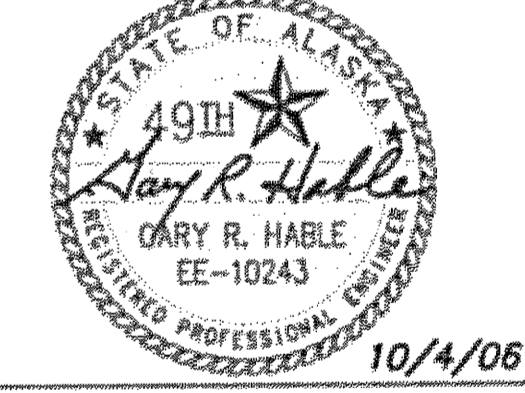
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RUNWAY SAFETY AREA EXPANSION
& RUNWAY OVERLAY
PROJECT NO. 68306

MALSR DETAILS

PREPARED BY: USKH INC.
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MALSR DETAILS

PROJECT DESIGNATION
AIP NO. 3-02-0144-1606

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ALASKA	2006
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G27	131