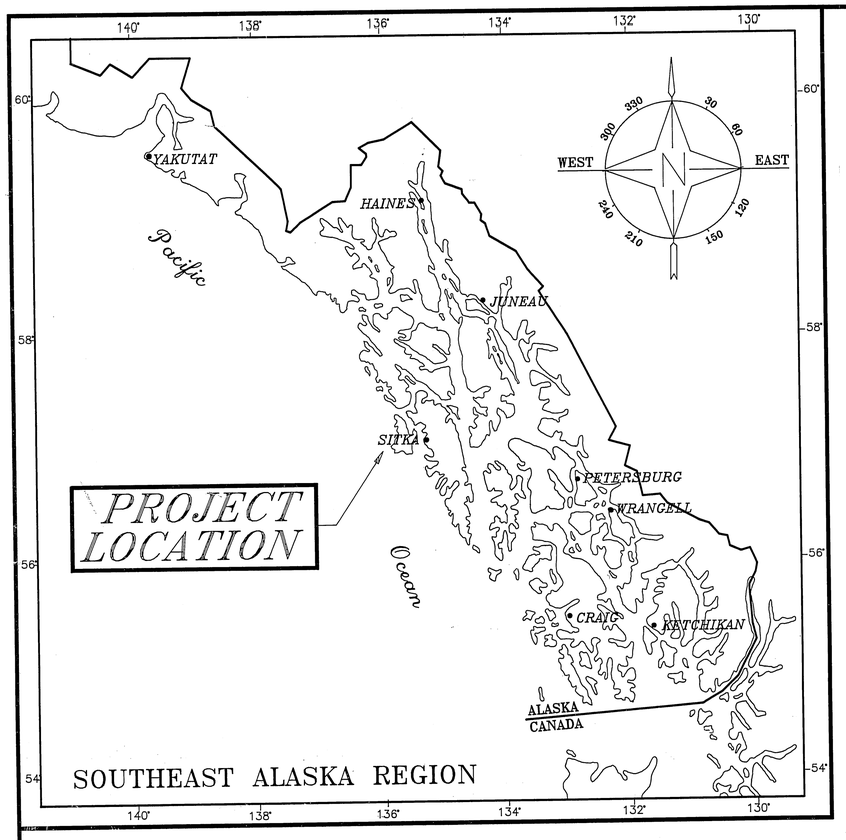


STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION
DESIGN AND CONSTRUCTION DIVISION

SITKA AIRPORT ELECTRICAL AND LIGHTING IMPROVEMENTS

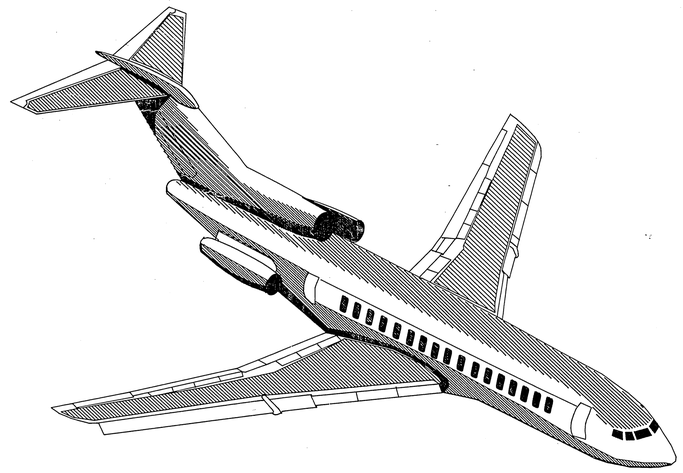
A.I.P. 3-02-0268-03

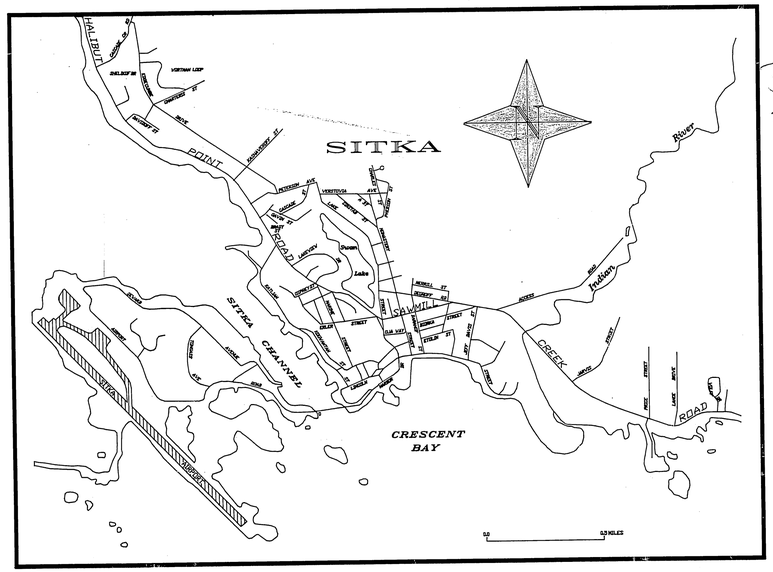
PROJECT NO. 71457

"As-Builts"

Project Engineer: Tom Matlicka
Contractor: Gilco Construction Inc.
Begin Date: July 29, 1994
End Date: July 21, 1995

INDEX OF SHEETS





STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND
PUBLIC FACILITIES
SOUTHEAST REGION DESIGN SECTION

APPROVED _____ Date 6/1/94
Regional Preconstruction Engineer

APPROVED _____ Date 6/1/94
Director, S.E. Region Design & Construction

ENGINEER'S SEAL
STATE OF ALASKA 49th
LARRY HARMON
LIC 4284
REGISTERED PROFESSIONAL ENGINEER

PROJECT NUMBER:	ENGINEER'S SEAL
71457	STATE OF ALASKA 49th B.C. HAIGHT SE 4900 REGISTERED PROFESSIONAL ENGINEER
DATE: MAY, 1994	
SHEET 1 OF 20	

P:\SIT\AIRPORT\DR\COVER 1=1

ESTIMATE OF QUANTITIES

Item No.	BASE BID OR ALT.	Description	Unit	Quantity
1000–a	BASE BID	New spare regulator, L–829	EACH	1
1000–c	BASE BID	Airport Lighting Control Panel, L–821	EACH	2
1000–d	BASE BID	Runway Marker Light, L–862	EACH	~~53~~ 65
* 1000–d	Alt #1	Runway Marker Light, L–862	EACH	12
1000–e	BASE BID	Threshold Marker Light, L–862E	EACH	~~8~~ 16
* 1000–e	Alt #1	Threshold Marker Light, L–862E	EACH	8
1000–f	BASE BID	Taxiway Marker Light, L–861T	EACH	~~7~~ 13
* 1000–f	Alt #1	Taxiway Marker Light, L–861T	EACH	6
1000–g	BASE BID	Furnish No. 6 Cable, L–824 C.O. #1	LF	4,900*
* 1000–g	Alt #1	Furnish No. 6 Cable, L–824	LF	3,100
1000–h	BASE BID	Installation of No. 6 Cable, L–824 C.O. #1	LF	~~24,900*~~ 10,364.19
* 1000–h	Alt #1	Installation of No. 6 Cable, L–824	LF	3,100
1000–i	BASE BID	1–1/2" or 1–1/4" HDPE conduit C.O. #1	LF	~~1,300~~ 367
1000–j	BASE BID	2" HDPE conduit along taxiway C.O. #1	LF	~~1,300~~ 521
1000–k	BASE BID	2" HDPE conduit along runway C.O. #1	LF	~~15,800~~ 16,359
* 1000–k	Alt #1	2" HDPE conduit along runway	LF	3,100
1000–l	BASE BID	Lighting Control Cable C.O. #1	LF	~~3,200~~ 5,467
1000–m	BASE BID	#8 XHHW Ground Conductor C.O. #1	LF	~~17,600~~ 15,502.66
* 1000–m	Alt #1	#8 XHHW Ground Conductor	LF	3,100
1000–n	BASE BID	3" HDPE conduit C.O. #1	LF	~~500~~ 409
1000–o	BASE BID	Removal of Taxiway Light and Base C.O. #1	EACH	~~7~~ 6
* 1000–o	Alt #1	Removal of Taxiway Light and Base	EACH	6
1000–r	BASE BID	Lighting Regulator Monitor, L–827	EACH	1
* 1000–u	Alt #2	Lighted Holding Position Sign	EACH	3
* 1000–v	Alt #2	Lighted Taxiway Location Sign	EACH	3
* 1000–w	Alt #2	Lighted Runway Exit Sign	EACH	3
1000–x	BASE BID	Obstruction lights for mausoleum	LS	All Req'd.
1000–y	BASE BID	Illuminated Windcone Assembly	EACH	1
1000–z	BASE BID	Receiver–Controller, Type I, L–824	EACH	1
1000–aa	BASE BID	Relocated and Upgraded Runway Distance Sign	EACH	5
1000–bb	BASE BID	Relocated Lighting Regulator	EACH	2
1000–cc	BASE BID	Removal of existing cable	LS	All Req'd.
* 1000–cc	Alt #1	Removal of existing cable	LS	All Req'd.
1000–dd	BASE BID	Type 1 Handhole C.O. #1	EACH	~~2~~ 3
1000–ee	BASE BID	Type 3 Handhole C.O. #1	EACH	~~4~~ 5
1000–ff	BASE BID	Removal of existing Handhole C.O. #1	EACH	~~11~~ 8
1000–gg	BASE BID	Series Plug Cutouts	EACH	2
1020	BASE BID	Reconditioned Beacon and Refurbished Pole	LS	All Req'd.
1100	BASE BID	Electrical Systems	LS	All Req'd.

* 20,000 FEET OF NO. 6, L–824 CABLE WILL BE FURNISHED BY THE SITKA AIRPORT MANAGER.

ESTIMATE OF QUANTITIES (Cont.)

Item No.	BASE BID OR ALT.	Description	Unit	Quantity
100	BASE BID	Mobilization and Demobilization	LS	All Req'd.
120(1)	BASE BID	DBE Adjustment C.O. #1	CS	All Req'd.
121	BASE BID	Construction Surveying by the Contractor	LS	All Req'd.
131	BASE BID	Engineer's Field Office C.O. #1	LS	All Req'd.
250–a	BASE BID	Excavation and Disposal of Existing Pavement C.O. #1	SY	~~420~~ 356.42
* 250–a	Alt #1	Excavation and Disposal of Existing Pavement	SY	100
400–a	BASE BID	12" Dia. Corrugated Metal Pipe	LF	40
400–b	BASE BID	4" Dia. Ductile Iron Pipe, Class 50 C.O. #1	LF	~~400~~ 419
560–a	BASE BID	Rip–Rap, Class II	LS	All Req'd.
560–b	BASE BID	Rip–Rap, Class IV	LS	All Req'd.
660	BASE BID	Asphalt Concrete Pavement C.O. #1	SY	~~420~~ 345.12
* 660	Alt #1	Asphalt Concrete Pavement	SY	100
2000	BASE BID	Construct New Control Building	LS	All Req'd.

* QUANTITIES FOR ALT #1 & #2 INCLUDED IN BASE BIDS

NOTE:

1. THE ITEM NOS. LISTED IN THIS TABLE ARE THE SAME ITEM NOS. FOUND IN THE METHOD OF MEASUREMENT PARTS OF THE SPECIFICATIONS. FOR EXAMPLE, ITEM NO. 1000–a REPRESENTS THE WORK COVERED BY ITEM 1000–a IN PART 1000.7 "METHOD OF MEASUREMENT" OF SECTION 1000 OF THE SPECIFICATIONS.

2. IT SHOULD BE NOTED THAT SECTION 1100 OF THE SPECIFICATIONS COVERS MANY OF THE SAME TYPES OF WORK THAT ARE COVERED IN SECTION 1000, SUCH AS INSTALLATION OF CONDUIT AND HANDHOLES. HOWEVER, THE SECTION 1100 WORK IS FOR ELECTRICAL SYSTEMS (PRIMARY POWER, EQUIP. POWER, ETC.) DIFFERENT FROM THE SECTION 1000 WORK (RUNWAY LIGHTING, TAXIWAY LIGHTING, ETC.). MAINTAIN SEPARATION OF MATERIALS AND LABOR TO THE SPECIFIC BID ITEMS AS SPECIFIED BY THESE SECTIONS.

NEW ITEMS ESTABLISHED BY CHANGE ORDER NUMBER 1

ITEM No.	CHANGE ORDER	DESCRIPTION	UNIT	QUANTITY
440 c	1	24" Corrugated Metal Pipe	L.S.	All Req'd
660a	1	Additional Asphalt Paving (Minor)	TON	102.4
660 b	1	Additional Asphalt Paving (major)	TON	152.83
1000e	1	Handhole Cable Tray	EACH	15
1100a	1	Relocate Auto Transfer Switch	L.S.	All Req'd
1100b	1	Electric Equipment Connections & Modifications	L.S.	All Req'd
1100c	1	I.M.C. Conduit Credit	L.S.	All Req'd

ENGINEER'S SEAL
STATE OF ALASKA
49th
B.C. HAIGHT
EE 4800
REGISTERED PROFESSIONAL ENGINEER

ENGINEER'S SEAL
STATE OF ALASKA
49th
LARRY HARMON
CE 4284
REGISTERED PROFESSIONAL ENGINEER

HAIGHT & McLAUGHLIN, INC.
CONSULTING ENGINEERS
418 Harris Street, Juneau, Alaska 99801 (907) 586–9788

City and Borough of Sitka
PUBLIC SERVICES
304 Lake Street Sitka, Alaska 99835
TEL (907) 747–5500 FAX (907) 747–3158

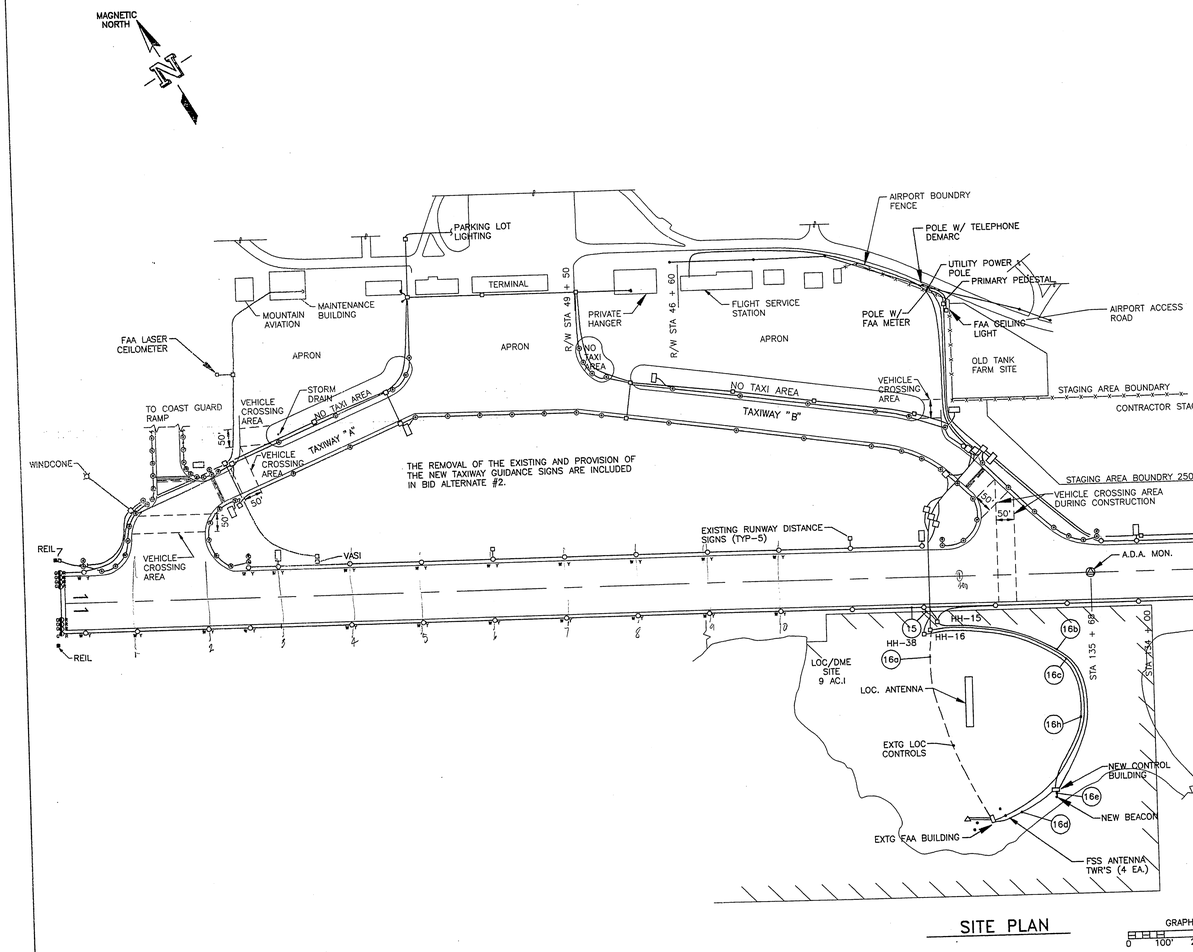
BY:	DATE:	DESCRIPTION OF CHANGE:

RECORD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & CONSTRUCTION

SITKA AIRPORT ELECTRICAL AND LIGHTING IMPROVEMENTS
SITKA ALASKA
ESTIMATE OF QUANTITIES

DESIGNED BY: MGM	DATE: MAY 1994	PROJECT No. 71457
DRAWN BY: JLC		
CHECKED BY: BCH		SHEET 2 OF 20



SITE PLAN

GRAPHIC SCALE
0 100' 200' 400'

NOTE:
REFER TO FAA DRAWING NO. ALD-SIT-040.000 FOR REAL ESTATE DATA.

LEGEND

A	AMBER
AC	ALTERNATING CURRENT
AF	AMP FRAME
AFG	ABOVE FINISHED GRADE
AFF	ABOVE FINISHED FLOOR
AT	AMP TRIP
ATS	AUTOMATIC TRANSFER SWITCH
C	CONDUIT
CCR	CONSTANT CURRENT REGULATOR
CKT	CIRCUIT
COM	COMMON
CR1	CONTROL RELAY (RELAY NUMBER)
CU	COPPER
D	DEEP
DC	DIRECT CURRENT
DIA	DIAMETER
DME	DISTANCE MEASURING EQUIPMENT
E	EMERGENCY
EOL	END OF LINE RESISTOR
EQUIP	EQUIPMENT
EXTG	EXISTING
FAA	FEDERAL AVIATION ADIMINISTRATION
FACP	FIRE ALARM CONTROL PANEL
G	GREEN
GFI	GROUND FAULT INTERRUPTER
GND	GROUND
GRS	GALVANIZED RIGID STEEL
HH-1	HANDHOLE (NUMBER OF HANDHOLE)
I.D.	INSIDE DIAMETER
IN	INPUT
J	JUNCTION
L	LONG
LOC	LOCALIZER
LT	LEFT
LTS	LIGHTS
L.V.	LOW VOLTAGE
MIN	MINIMUM
N	NORMAL
N.C.	NORMALLY CLOSED
NEUT	NEUTRAL
N.O.	NORMALLY OPEN
ø	DIAMETER
O.C.	ON CENTER
O.D.	OUTSIDE DIAMETER
OUT	OUTPUT
P.E.	PHOTO ELECTRIC
PRI	PRIMARY
PWR	POWER
R	RED
RC2	RADIO CONTROLLER RELAY (RELAY NUMBER)
REIL	RUNWAY END IDENTIFIER LIGHT
RM	ROOM
RT	RIGHT
RWY	RUNWAY
TR1	TIME DELAY RELAY (RELAY NUMBER)
TTB	TELEPHONE TERMINAL BOARD
TWY	TAXIWAY
TYP	TYPICAL
(TYP-4)	TYPICAL OF FOUR
UON	UNLESS OTHERWISE NOTED
UPS	UNINTERRUPTIBLE POWER SUPPLY
UTIL	UTILITY
V	VOLTS
VAC	VOLTS AC
VASI	VISUAL APPROACH SLOPE INDICATOR
VDC	VOLTS DC
W	WHITE
W	WIDE (WHEN SHOWN WITH DIMENSIONS)
W/	WITH
W.P.	WEATHER PROOF
XFMR	TRANSFORMER
Y	YELLOW
(W)	LIGHT, LETTER INDICATES COLOR
	WEATHER HEAD
	PRIMARY PEDESTAL
	TAXIWAY LIGHT
	RUNWAY LIGHT
W Y	RUNWAY LIGHT WITH COMBINATION WHITE & YELLOW LENS
G R	RUNWAY END LIGHT WITH COMBINATION GREEN & RED LENS
(1)	AIRPORT SIGN #
50/2	CIRCUIT BREAKER AMPS/# POLES
	GROUND BUS
(M)	METER BASE
(8)	CONDUIT & CABLE RUN #
(T)	THERMOSTAT
	GENERATOR
(G)	PUSH TO TEST LIGHT. LETTER INDICATES COLOR
	AUTOMATIC TRANSFER SWITCH
(CR)	CONTROL RELAY W/ 2 FORM C CONTACTS
OFF	N.C. MOMENTARY PUSHBUTTON LABELED OFF
ON	N.O. MOMENTARY PUSHBUTTON LABELED ON
ON OFF	TWO WAY MAINTAINED CONTACT SWITCH
S	PHOTOELECTRIC SMOKE DETECTOR
H 190°	FIXED TEMPERATURE (190°) HEAT DETECTOR
F	PULL STATION
WP HORN ONLY / STROBE ONLY	WEATHER PROOF HORN STROBE LIGHT LABELED "FIRE"
	GROUND ROD
	TRANSFORMER
	DISCONNECT
5AT	FUSED DISCONNECT # AMPS
	FLUORESCENT LUMINAIRE, EQUIP W/ SINGLE EMERGENCY BALLAST WHERE SHOWN. BODINE B50 F-48 OR APPROVED EQUAL.
	FLUORESCENT LUMINAIRE
	EXTERIOR WALL MOUNTED LUMINAIRE
	DUPLEX RECEPTACLE
J	JUNCTION BOX
	CONDUIT W/ CONDUCTORS, SLASHES INDICATE NUMBER OF CONDUCTORS IF NOT TWO.
	FUSE
℄	CENTERLINE
	HOLD SHORT LINE

BY:	DATE:	DESCRIPTION OF CHANGE:

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & CONSTRUCTION

SITKA AIRPORT ELECTRICAL AND LIGHTING IMPROVEMENTS

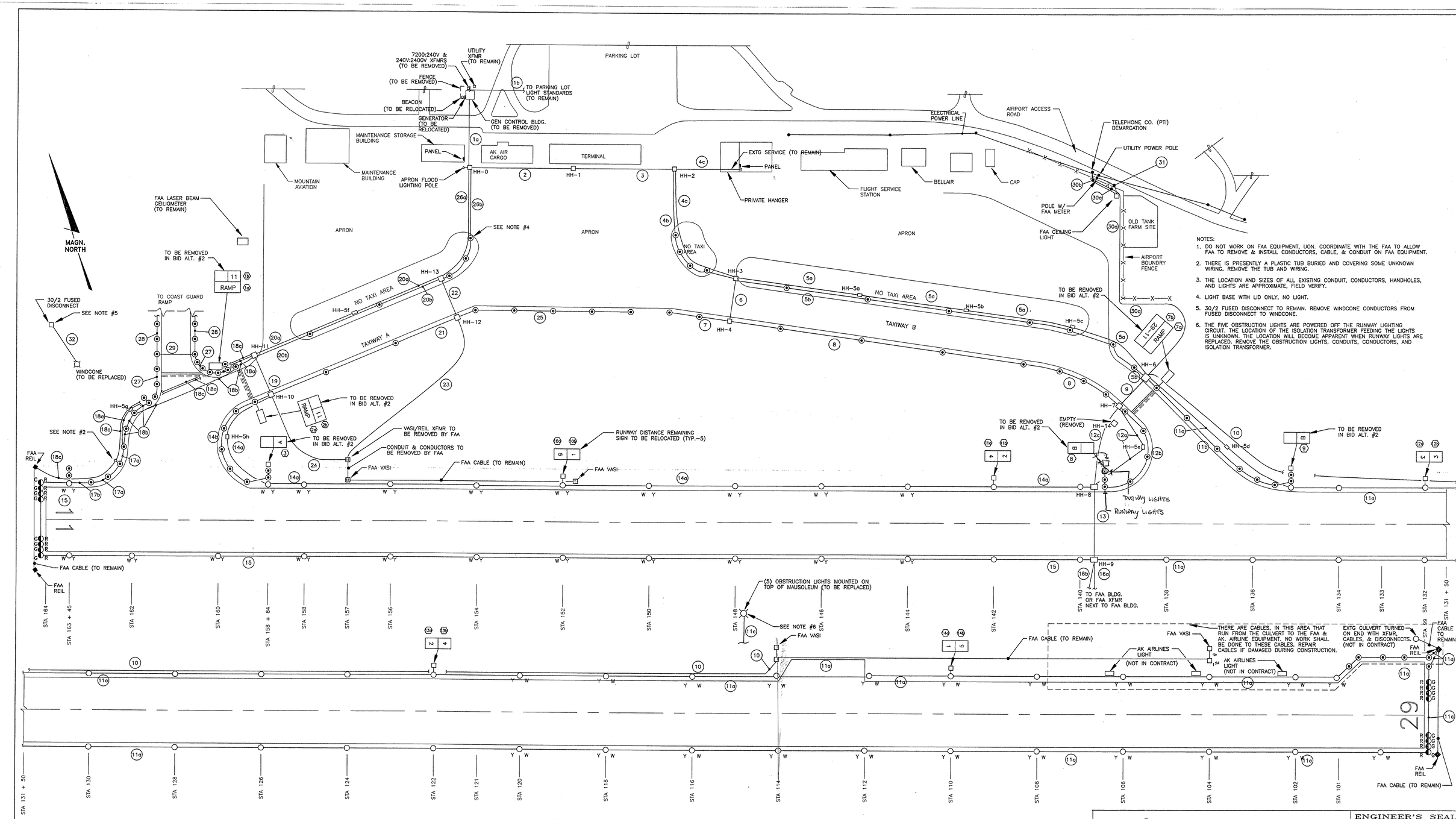
SITKA ALASKA

NEW SITE PLAN

HAIGHT & McLAUGHLIN, INC.
CONSULTING ENGINEERS
418 Harris Street, Juneau, Alaska 99801 (907) 586-9788

DESIGNED BY: MGM	DATE: MAY 1994	PROJECT No. 71457
DRAWN BY: JLC		E-1
CHECKED BY: BCH		SHEET 3 OF 20

ENGINEER'S SEAL
STATE OF ALASKA
49th
B.C. HAIGHT
EE 4800
REGISTERED PROFESSIONAL ENGINEER



NOTES:

1. DO NOT WORK ON FAA EQUIPMENT, UON. COORDINATE WITH THE FAA TO ALLOW FAA TO REMOVE & INSTALL CONDUCTORS, CABLE, & CONDUIT ON FAA EQUIPMENT.
2. THERE IS PRESENTLY A PLASTIC TUB BURIED AND COVERING SOME UNKNOWN WIRING. REMOVE THE TUB AND WIRING.
3. THE LOCATION AND SIZES OF ALL EXISTING CONDUIT, CONDUCTORS, HANDHOLES, AND LIGHTS ARE APPROXIMATE, FIELD VERIFY.
4. LIGHT BASE WITH LID ONLY, NO LIGHT.
5. 30/2 FUSED DISCONNECT TO REMAIN. REMOVE WINDCONE CONDUCTORS FROM FUSED DISCONNECT TO WINDCONE.
6. THE FIVE OBSTRUCTION LIGHTS ARE POWERED OFF THE RUNWAY LIGHTING CIRCUIT. THE LOCATION OF THE ISOLATION TRANSFORMER FEEDING THE LIGHTS IS UNKNOWN. THE LOCATION WILL BECOME APPARENT WHEN RUNWAY LIGHTS ARE REPLACED. REMOVE THE OBSTRUCTION LIGHTS, CONDUITS, CONDUCTORS, AND ISOLATION TRANSFORMER.

EXISTING PARTIAL SITE PLAN

GRAPHIC SCALE
0 50' 100' 200'

BY:	DATE:	DESCRIPTION OF CHANGE:

RECORD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & CONSTRUCTION

SITKA AIRPORT ELECTRICAL AND LIGHTING IMPROVEMENTS
SITKA ALASKA
EXISTING PARTIAL SITE PLAN

HAIGHT & McLAUGHLIN, INC.
CONSULTING ENGINEERS
418 Harris Street, Juneau, Alaska 99801 (907) 586-9788

DESIGNED BY: MGM	DATE: MAY 1994	PROJECT No. 71457
DRAWN BY: JLC		E-2
CHECKED BY: BCH		SHEET 4 OF 20

ENGINEER'S SEAL
STATE OF ALASKA
49th
B.C. HAIGHT
EE 4800
REGISTERED PROFESSIONAL ENGINEER

29

EXISTING SIGN SUMMARY

SIGN NO.	LEGEND	LETTER SIZE & COLOR	BACKGROUND COLOR	LEGEND DIRECTION	STATION	R/W ℄ OFFSET	REMARKS	TYPE	SIZE	NO. OF MODULES
1a	RAMP	12" BLACK	YELLOW	S	C.G. TWY	20' FROM EXTG TWY SHOULDER	LOCATED PARALLEL TO TWY HOLDLINE	DESTINATION	1	2
1b	11	12" WHITE	RED	N	C.G. TWY	20' FROM EXTG TWY SHOULDER	LOCATED PARALLEL TO TWY HOLDLINE	HOLDING POSITION	1	2
2a	RAMP	12" BLACK	YELLOW	S.W.	TWY	20' FROM EXTG TWY SHOULDER	LOCATED PARALLEL TO TWY HOLDLINE	DESTINATION	1	2
2b	11	12" WHITE	RED	N.E.	158 + 84	20' FROM EXTG TWY SHOULDER	LOCATED PARALLEL TO TWY HOLDLINE	HOLDING POSITION	1	2
3	A	12" BLACK	YELLOW	E	TWY	95' RT		R/W EXIT	1	1
7a	RAMP	12" BLACK	YELLOW	S.W.	TWY	20' FROM EXTG TWY SHOULDER	LOCATED PARALLEL TO TWY HOLDLINE	DESTINATION	1	2
7b	11–29	12" WHITE	RED	N.E.	TWY	20' FROM EXTG TWY SHOULDER	LOCATED PARALLEL TO TWY HOLDLINE	HOLDING POSITION	1	2
8	B	12" BLACK	YELLOW	W	139 + 40	95' RT		R/W EXIT	1	1
9	B	12" BLACK	YELLOW	E	135 + 12	95' RT		R/W EXIT	1	1
10a	5	25" WHITE	BLACK	W	152	99' RT		R/W DIST. REMAINING	5	1
10b	1	25" WHITE	BLACK	E	152	99' RT		R/W DIST. REMAINING	5	1
11a	4	25" WHITE	BLACK	W	142	99' RT		R/W DIST. REMAINING	5	1
11b	2	25" WHITE	BLACK	E	142	99' RT		R/W DIST. REMAINING	5	1
12a	3	25" WHITE	BLACK	W	132	99' RT		R/W DIST. REMAINING	5	1
12b	3	25" WHITE	BLACK	E	132	99' RT		R/W DIST. REMAINING	5	1
13a	2	25" WHITE	BLACK	W	122	99' RT		R/W DIST. REMAINING	5	1
13b	4	25" WHITE	BLACK	E	122	99' RT		R/W DIST. REMAINING	5	1
14a	1	25" WHITE	BLACK	W	110	99' RT		R/W DIST. REMAINING	5	1
14b	5	25" WHITE	BLACK	E	110	99' RT		R/W DIST. REMAINING	5	1

NOTES:
1. ALL EXISTING SIGNS ARE MADE BY ADB. ALNACO.
2. SIGN #'S 1–9 SHALL BE REMOVED IN BID ALTERNATE #2.
3. RELOCATE SIGN #'s 10–14 PER SHEETS E–4 & E–5.
4. WHEN REMOVING A SIGN, REMOVE CONDUIT & CABLES TO THE EXISTING LIGHT BASE WHICH FEEDS POWER TO THE SIGN, PLUG CONDUIT HUB IN REMAINING LIGHT BASE.

EXISTING CABLING SCHEDULE

NOTE: THE LOCATION, AND SIZES OF CONDUIT & CONDUCTORS SHOWN IS APPROXIMATE, FEILD VERIFY.

NO.	RACEWAY	CONDUCTOR	PURPOSE	INSTRUCTIONS
1a	(1) 3"	2 NO. 6, 5 KV	APRON FLOOD LIGHTS	REMOVE CABLES AND REROUTE CONDUIT AS SHOWN ON SHEETS E4 & E5.
		4 NO. 6, 5 KV	RWY LTS – A & B	REMOVE CABLES.
	(1) 3"	4 NO. 6, 5 KV	TWY LTS – A & B	REMOVE CABLES AND REROUTE CONDUIT AS SHOWN ON SHEETS E4 & E5.
		2 NO. 8, 5 KV	FAA POWER (2400V)	REMOVE CABLES.
		2 NO. 8, 5 KV	FAA POWER (480V)	REMOVE CABLES.
	(2) 3"		SPARE	REROUTE CONDUITS AS SHOWN ON SHEETS E4 & E5. PLUG CONDUIT.
1b	(1) 3/4"	2 NO. 8	PARKING LOT LIGHTING	REPLACE CONDUCTORS & REROUTE CONDUIT AS SHOWN ON SHEETS E4 & E5.
2	(1) 3"	2 NO. 6, 5 KV	RWY LTS – B	ABANDON CABLES AND CONDUIT IN PLACE. PLUG CONDUIT.
	(1) 3"	2 NO. 6, 5 KV	TWY LTS – B	ABANDON CABLES AND CONDUIT IN PLACE. PLUG CONDUIT.
		2 NO. 8, 5 KV	FAA POWER (2400V)	ABANDON CABLES.
	(1) 2"	----------	EMPTY	ABANDON CONDUIT IN PLACE. PLUG CONDUIT.
	(1) 2"	3 NO. 6	TENANT SERVICE	TO REMAIN. PLUG CONDUIT.
3	(1) 3"	2 NO. 6, 5 KV	RWY LTS – B	ABANDON CABLES AND CONDUIT IN PLACE. PLUG CONDUIT.
	(1) 3"	2 NO. 6, 5 KV	TWY LTS – B	ABANDON CABLES AND CONDUIT IN PLACE. PLUG CONDUIT.
		2 NO. 8, 5 KV	FAA POWER (2400V)	ABANDON CABLES.
	(1) 2"	----------	EMPTY	ABANDON CONDUIT IN PLACE. PLUG CONDUIT.
	(1) 2"	3 NO. 6	TENANT SERVICE	TO REMAIN
4a	(1) 1–1/2"	2 NO. 6, 5 KV	RWY LTS – B	REMOVE CABLES AND ABANDON CONDUIT IN PLACE. PLUG CONDUIT.
4b	(1) 2"	2 NO. 6, 5 KV	TWY LTS – B	REMOVE CABLES AND ABANDON CONDUIT IN PLACE. PLUG CONDUIT.
		2 NO. 8, 5 KV	FAA POWER (2400V)	REMOVE CABLES.
4c	(1) 2"	3 NO. 6	TENANT SERVICE	PLUG CONDUIT AT HH–2.
5a	(1) 1–1/2"	2 NO. 6, 5 KV	RWY LTS – B	ABANDON CABLE AND CONDUIT. REMOVE CABLES BETWEEN HH–3 AND HH–5a. PLUG CONDUIT AT EVERY HAND HOLE. REMOVE S.E END FROM HH–6 BACK 10'.
5b	(1) 1–1/4"	1 NO. 6, 5 KV	TWY LTS – B	REMOVE S.E. END FROM HH–6, REROUTE AS SHOWN ON SHEETS E4 & E5.
6	(1) 3"	1 NO. 6, 5 KV	TWY LTS – B	
	(1) 3"	----	EMPTY	ABANDON CONDUIT IN PLACE. PLUG CONDUIT.
	(1) 3"	2 NO. 8, 5 KV	FAA POWER (2400V)	ABANDON CABLES AND CONDUIT IN PLACE. PLUG CONDUIT.
7	(1) 1–1/2"	2 NO. 6, 5 KV	TWY LTS – B	
8	(1) 2"	1 NO. 6, 5 KV	TWY LTS – B	REMOVE S.E. END FROM HH–7, REROUTE AS SHOWN ON SHEETS E4 & E5.
		2 NO. 8, 5 KV	FAA POWER (2400V)	REMOVE AS NECESSARY, ABANDON REMAINDER OF CABLES IN PLACE.
9	(1) 3"	25 PR. TELE CABLE	FAA CONTROL	REMOVE CABLE REUSE EXTG CONDUIT AS SHOWN ON SHEETS E4 & E5.
	(1) 3"	2/C NO. 8, 5 CABLE	FAA POWER (2400V)	REMOVE CABLE. REUSE EXTG CONDUIT AS SHOWN ON SHEETS E4 & E5.
	(1) 3"	1 NO. 6, 5 KV	RWY LTS – B	REMOVE CABLE. REUSE EXTG CONDUIT AS SHOWN ON SHEETS E4 & E5.
	(1) 3"	1 NO. 6, 5 KV	TWY LTS – B	REMOVE CABLE. REUSE EXTG CONDUIT AS SHOWN ON SHEETS E4 & E5.
10	----	2/C NO. 8, 5 CABLE	FAA POWER (2400V)	REMOVE DIRECT BURY CABLE.
11a	(1) 1–1/4"	1 NO. 6, 5 KV	RWY LTS – B	REMOVE CABLE. REMOVE CONDUIT FROM EACH LIGHT BASE BACK 2'. REMOVE CONDUIT BETWEEN HH–6 & HH–5a, AND BETWEEN HH–5a & THE FIRST RWY. LIGHT. ABANDON REMAINDER OF CONDUIT IN PLACE.
11b	(1) 1–1/2"	2 NO. 6, 5 KV	TWY LTS – B	REMOVE N.W. END FROM HH–6. REROUTE AS SHOWN ON SHEETS E4 & E5.
11c	(1) 1–1/2"	2 NO. 10	OBSTRUCTION LIGHTS	REMOVE CONDUIT & CONDUCTORS.
12a	(1) 1–1/4"	1 NO. 6, 5 KV	RWY LTS – B	REMOVE CABLE AND CONDUIT.
12b	(1) 2"	2 NO. 6, 5 KV	TWY LTS – B	REMOVE N.W. END FROM HH–7. REROUTE AS SHOWN ON SHEETS E4 & E5.
12c	(1) 1–1/2"	25 PR. TELE CABLE	FAA CONTROL	REMOVE CABLE AND CONDUIT.
	(1) 2–1/2"	2 NO. 8, 5 KV	FAA POWER (2400V)	REMOVE CABLE AND CONDUIT.
13	(1) 3"	25 PR. TELE CABLE	FAA CONTROLS	REMOVE CABLE. REUSE EXTG CONDUIT AS SHOWN ON SHEETS E4 & E5.
	(1) 3"	1 NO. 6, 5 KV	RWY LTS – A	REMOVE CABLE. REUSE EXTG CONDUIT AS SHOWN ON SHEETS E4 & E5.
	(2) 3"	-----	EMPTY	REUSE EXTG CONDUITS AS SHOWN ON SHEETS E4 & E5.
	(1) 3"	2 NO. 8, 5 KV	FAA POWER (2400V)	REMOVE CABLES. REUSE EXTG CONDUIT AS SHOWN ON SHEETS E4 & E5.
	(1) 3"	1 NO. 6, 5 KV	RWY LTS – B	REMOVE CABLE. REUSE EXTG CONDUIT AS SHOWN ON SHEETS E4 & E5.
14a	(1) 1–1/4"	1 NO. 6, 5 KV	RWY LTS – A	REMOVE CABLE. REMOVE CONDUIT FROM EACH LIGHT BASE BACK 2'. REMOVE CONDUIT BETWEEN HH–10 & HH–5h & BETWEEN HH–5h & THE FIRST RWY LIGHT. ABANDON REMAINDER OF CONDUIT IN PLACE.
14b	(1) 1–1/2"	2 NO. 6, 5 KV	TWY LTS – A	REMOVE N. END FROM HH–10. REROUTE AS SHOWN ON SHEETS E4 & E5.
15	(1) 1–1/4"	1 NO. 6, 5 KV	RWY LTS – A	REMOVE CABLE. REMOVE CONDUIT FROM EACH LIGHT BASE BACK 2'. ABANDON REMAINDER OF CONDUIT IN PLACE.
16a	(1) 1–1/2"	2 NO. 8, 5 KV	FAA POWER (2400V)	REMOVE CABLES FROM HH–9 TO FAA XFMR. ABANDON CONDUIT IN PLACE. REMOVE LAST 75' ON N. END.
	(1) 1–1/2"	11 PR. TELE CABLE	FAA CONTROL	REMOVE THE XFMR. REMOVE CABLE FROM HH–9 TO FAA BLPG. ABANDON CONDUIT IN PLACE. REMOVE LAST 75' ON N. END
16b	(1) 1–1/2"	25 PR. TELE CABLE	FAA CONTROL	CABLE AND CONDUIT ON GROUND. REMOVE CABLE AND CONDUIT.
17a	(1) 2"	1 NO. 6, 5 KV	RWY LTS – A	REMOVE CABLE.
		2 NO. 6, 5 KV	TWY LTS – A	CABLE & CONDUIT TO REMAIN.
17b	(1) 2"C	1 NO. 6, 5 KV	RWY LTS – A	REMOVE W. END OF CONDUIT FROM RWY. LT. BASE . REROUTE AS SHOWN ON
		2 NO. 6, 5 KV	TWY LTS – A	SHEETS E4 & E5. REMOVE CABLE.
18a	(1) 1–1/4"	1 NO. 6, 5 KV	RWY LTS – A	REMOVE CABLE. REMOVE CONDUIT, BOTH SIDES, WITHIN 5' OF TAXIWAY CROSSING. RETAIN CONDUIT WHERE UNDER TAXIWAY. RECONNECT BOTH REMAINING ENDS AS SHOWN ON SHEETS E4 & E5.
18b	(1) 1–1/2"	2 NO. 6, 5 KV	TWY LTS – A	REMOVE N.E. END FROM HH–11. REROUTE AS SHOWN ON SHEETS E4 & E5.
18c	(1) 1–1/2"	3 NO. 8, 600V	FAA POWER (480V)	REMOVE CABLE. REMOVE CONDUIT, BOTH SIDES, WITHIN 5' OF TAXIWAY CROSSING. RETAIN CONDUIT WHERE UNDER TAXIWAY. RECONNECT BOTH REMAINING ENDS AS SHOWN ON SHEETS E4 & E5.
19	(1) 3"	1 NO. 6, 5 KV	TWY LTS – A	REMOVE CABLES. REUSE EXISTING CONDUIT AS SHOWN ON SHEETS E4 & E5.
	(1) 3"	3 NO. 8, 600V	FAA POWER (480V)	REMOVE CABLES. REUSE EXISTING CONDUIT AS SHOWN ON SHEETS E4 & E5.
	(1) 3"	----	EMPTY	REUSE EXISTING CONDUIT AS SHOWN ON SHEETS E4 & E5.
	(1) 3"	1 NO. 6, 5 KV	RWY LTS – A	REMOVE CABLES. REUSE EXISTING CONDUIT AS SHOWN ON SHEETS E4 & E5.
20a	(1) 1–1/2"	2 NO. 6, 5 KV	RWY LTS – A	REMOVE CABLES. ABANDON CONDUIT IN PLACE. PLUG CONDUIT. REMOVE S.W. END FROM HH–11 BACK TO ASPHALT.
20b	(1) 1–1/4"	1 NO. 6, 5 KV	TWY LTS – A	REMOVE S.W. END FROM HH–11. REROUTE AS SHOWN ON SHEETS E4 & E5.
21	(1) 1–1/4"	1 NO. 6, 5 KV	TWY LTS – A	REMOVE S.W. END FROM HH–10. REROUTE AS SHOWN ON SHEETS E4 & E5.
22	(1) 3"	1 NO. 6, 5 KV	TWY LTS – A	
	(1) 3"	----	EMPTY	ABANDON CONDUIT IN PLACE. PLUG CONDUIT.
	(1) 3"	2 NO. 8, 5 KV	FAA POWER (480V)	ABANDON CABLES AND CONDUIT IN PLACE. PLUG CONDUIT.
23	(1) 1–1/2"	2 NO. 8, 5 KV	FAA POWER (480V)	ABANDON CABLES AND CONDUIT IN PLACE. PLUG CONDUIT.
24	(1) 1–1/2"	3 NO. 8, 600V	FAA POWER (480V)	REMOVE CABLE AND CONDUIT.
25	(1) 1–1/2"	2 NO. 6, 5 KV	TWY LTS – A	
26a	(1) 1–1/2"	2 NO. 6, 5 KV	RWY LTS – A	REMOVE CABLES. ABANDON CONDUIT IN PLACE. PLUG CONDUIT.
	(1) 1–1/2"	2 NO. 8, 5 KV	FAA POWER (480V)	REMOVE CABLES. ABANDON CONDUIT IN PLACE. PLUG CONDUIT.
	(1) 1–1/2"	----	EMPTY	ABANDON CONDUIT IN PLACE. PLUG CONDUIT.
26b	(1) 1–1/2"	2 NO. 6, 5 KV	TWY LTS – B	REMOVE CABLES FROM HH–0 TO THE FIRST TWY. LIGHT. SPLICE THE CABLES TO THE TRANSFORMER AT THIS LIGHT FORMING A LOOP WITH THE CABLES. PLUG CONDUIT AT HH–0.
27	(1) 2"	2 NO. 6 OR 8, 5 KV	COAST GUARD TWY LTS	
28	(1) 2"	1 NO. 6 OR 8, 5 KV	COAST GUARD TWY LTS	
29	(1) 2"	1 NO. 6 OR 8, 5 KV	COAST GUARD TWY LTS	
30a	(1) 1–1/2"	25 PR. TELE CABLE	FAA CONTROL	CONDUIT & CABLE ON GROUND. REMOVE CONDUIT AND CABLE FROM TELEPHONE DEMARCATION TO HH–6.
30b	(1) 3/4"	TELE CABLE	CEILING LIGHT CONTROL	REMOVE AND REPLACE CONDUIT & CONDUCTORS AS SHOWN ON SHEETS E4 & E5.
31	(1) 3/4"	3 NO. 10 & 1 NO. 12 GND	CEILING LIGHT POWER	REMOVE AND REPLACE CONDUIT & CONDUCTORS AS SHOWN ON SHEETS E4 & E5.
32	NO CONDUIT	2 NO. 12 TYPE NM	WINDCONE	REMOVE CONDUCTORS FROM WINDCONE TO 30/2 FUSE DISCONNECT.

NOTES:
1. USE WATERTIGHT SEALING MATERIAL FOR PLUGGING CONDUITS. PLUG CONDUITS AT BOTH ENDS UNLESS OTHERWISE NOTED.
2. WHEN REMOVING CONDUIT FROM AN EXISITING LIGHT BASE TO REMAIN, PLUG CONDUIT HUB IN LIGHT BASE.
3. WHEN REMOVING CABLE AND CONDUIT TO FAA EQUIP. ALLOW FAA TO DISCONNECT CABLE AND CONDUIT PRIOR TO REMOVAL.

BY:	DATE:	DESCRIPTION OF CHANGE:

RECORD OF REVISIONS

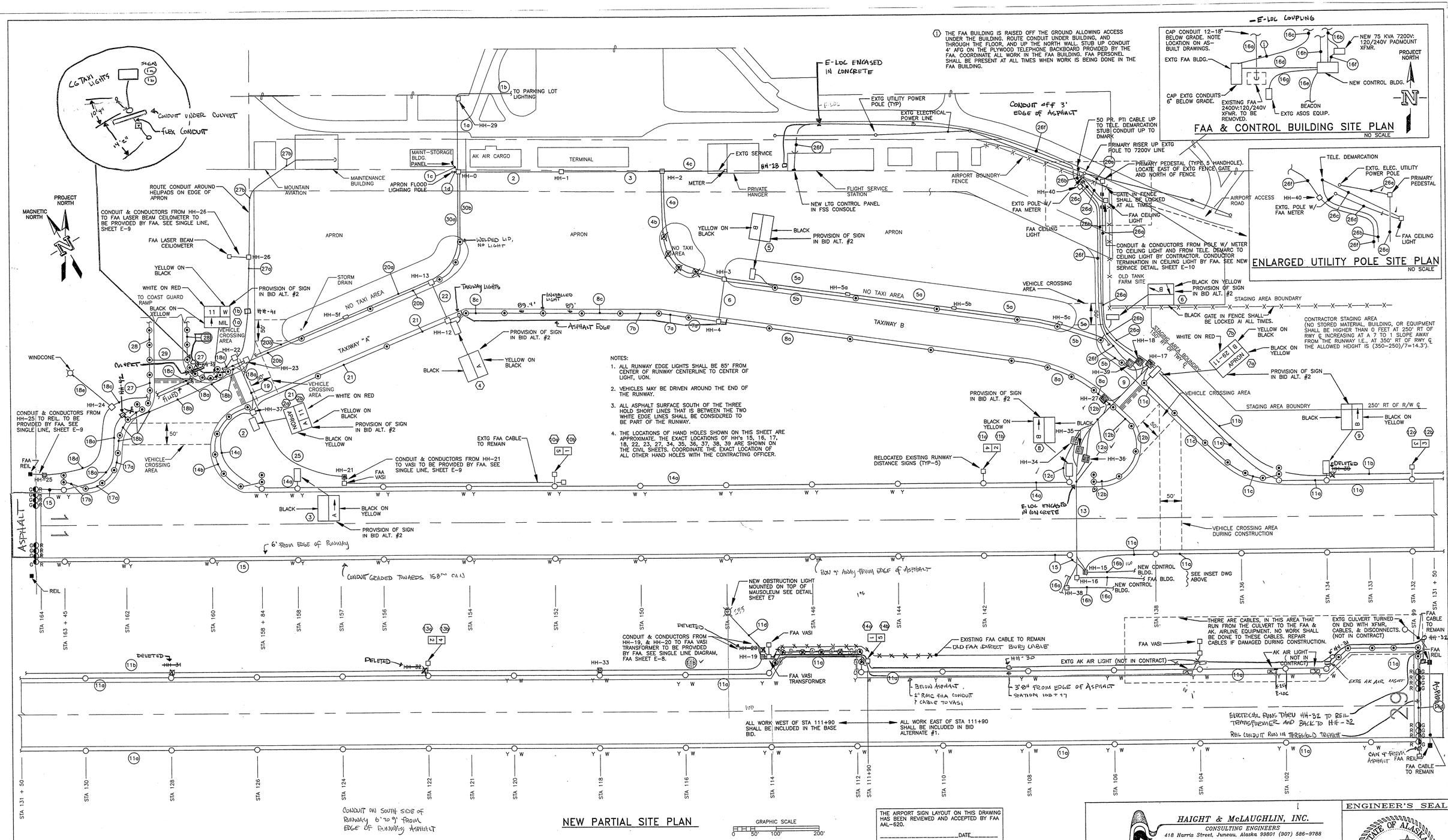
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & CONSTRUCTION

SITKA AIRPORT ELECTRICAL AND LIGHTING IMPROVEMENTS
SITKA ALASKA
EXISTING CABLING SCHEDULE

HAIGHT & McLAUGHLIN, INC.
CONSULTING ENGINEERS
418 Harris Street, Juneau, Alaska 99801 (907) 586-9788

DESIGNED BY: MGM	DATE: MAY 1994	PROJECT No. 71457
DRAWN BY: JLC		E–3
CHECKED BY: BCH		SHEET 5 OF 20

ENGINEER'S SEAL
STATE OF ALASKA
49th
B.C. HAIGHT
EE 4866
REGISTERED PROFESSIONAL ENGINEER



THE AIRPORT SIGN LAYOUT ON THIS DRAWING HAS BEEN REVIEWED AND ACCEPTED BY FAA AAL-620.

_____DATE_____

BY:	DATE:	DESCRIPTION OF CHANGE:

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & CONSTRUCTION

SITKA AIRPORT ELECTRICAL AND LIGHTING IMPROVEMENTS
SITKA ALASKA
NEW PARTIAL SITE PLAN

HAIGHT & McLAUCHLIN, INC.
CONSULTING ENGINEERS
418 Harris Street, Juneau, Alaska 99801 (907) 586-9788

ENGINEER'S SEAL
STATE OF ALASKA 49th
B.C. HAIGHT EE 4800
REGISTERED PROFESSIONAL ENGINEER

DESIGNED BY: MGM	DATE: MAY 1994	PROJECT No. 71457
DRAWN BY: JLC		E-4
CHECKED BY: BCH		SHEET 6 OF 20

(E) = EXISTING, (N) = NEW

NEW CABLING SCHEDULE

NO.	RACEWAY	CONDUCTOR	PURPOSE	INSTRUCTIONS
1a	3"C (E)	2 NO. 4 & 1 NO. 10 GND, 600V(N)	PARKING LOT LIGHTS	REMOVED STUBBED UP PORTION OF CONDUIT ON N. END. EXTEND CONDUIT AT HORIZONTAL BURIAL DEPTH INTO NEW HAND HOLE #29 (REPEAT FOR ALL FOUR, 3 INCH CONDUITS).
	(3) 3"C (E)		SPARE	
1b	3/4"C (E)	2 NO. 4 & 1 NO. 10 GND, 600V(N)	PARKING LOT LIGHTS	REPLACE CONDUCTORS TO FIRST LIGHT STANDARD (SEE SHEET E-9) & REROUTE END OF CONDUIT INTO HH-29 AS SHOWN.
1c	2"C (N)	2 NO. 4, 2 NO. 10, & 1 NO. 10 GND, 600V(N)	PARKING LOT LIGHTS APRON FLOOD LIGHTS	CONNECT N.W. END TO EXTG. PANEL IN MAINT. STORAGE BLDG. CONNECT S.E. END TO HH-0. SLOPE CONDUIT DOWN AT 0.5% TO HH-0. STUB N.W. END 2' BELOW EXTG. PANEL IN MAINT. STOR. BLDG. CONNECT S.E. END TO HH-0. PLUG CONDUIT.
	2"C (N)		SPARE	
1d	1"C (E)	2 NO. 10, & 1 NO. 10 GND, 600V(N)	APRON FLOOD LIGHTS	PULL NEW CONDUCTORS, CONNECT TO EXTG CONDUCTORS IN POLE.
2 & 3	3"C (E)	2 NO. 6, 5KV (E)	ABANDONED	
	3"C (E)	2 NO. 6, 5KV (E)	ABANDONED	
		2 NO. 8, 5KV (E)	ABANDONED	
	2"C (E)		SPARE	
	2"C (E)	3 NO. 6, 600V (E)	TENANT SERVICE	
4a	1 1/2"C (E)		SPARE	
4b	2"C (E)		SPARE	
4c	2"C (E)	3 NO. 6, 600V (E)	TENANT SERVICE	
5a	1 1/2"C (E)	2 NO. 6, 5KV (E)	ABANDONED	
5b	1 1/4"C (E)	1 NO. 6, 5KV (E)	TWY. LTS.	REROUTE S.E. END OF CONDUIT TO HH-17. REPLACE CABLE WITH NEW FROM HH-17 TO FIRST TWY. LIGHT.
6	3"C (E)	1 NO. 6, 5KV (E)	TWY. LTS.	SPLICE THE CABLE IN RUN #6 TO THE CABLE IN RUN #5b.
	3"C (E)		SPARE	
	3"C (E)	2 NO. 8, 5KV (E)	ABANDONED	
7a	1 1/2"C (E)	2 NO. 6, 5KV (E)	TWY. LTS.	CONNECT CABLE AND ISOLATING TRANSFORMER IN WEST MOST TWY. LIGHT BASE TO ONE EACH OF THE TWO CABLES IN CONDUIT RUN #7b. REPLACE WEST MOST LIGHT BASE WITH A NEW BASE EQUIPPED WITH (2) 1 1/2"C HUBS.
7b	2" ~~1 1/2~~"C (N)	2 NO. 6, 5KV (N)	TWY. LTS.	CONNECT W. END OF CONDUIT TO EAST MOST TWY. LIGHT BASE IN CONDUIT RUN #8C, AND CONNECT THE E. END OF CONDUIT TO WEST MOST TWY. LIGHT BASE IN CONDUIT RUN 7a. CONNECT THE TWO CABLES TO ONE EACH OF THE CABLES AND ISOLATING TRANSFORMERS IN THESE TWO LIGHT BASES.
8a	2"C (E)	1 NO. 6, 5KV (E)	TWY. LTS.	REROUTE S.E. END OF CONDUIT TO HH-27. PROVIDE NEW CABLE BETWEEN THE LAST TWY. LIGHT & HH-27.
		2 NO. 8, 5KV (E)	ABANDONED	
8c	1 1/2"C (E)	2 NO. 6, 5KV (E)	TWY. LTS.	REPLACE EAST MOST TWY. LIGHT BASE WITH A NEW BASE WITH (2) 1 1/2"C HUBS. CONNECT CABLE AND ISOLATING TRANSFORMER IN EAST MOST BASE TO ONE EACH OF THE NEW CABLES IN CONDUIT RUN #7b.
9	3"C (E)	1 NO. 2, 15KV (N)	UTILITY PRIMARY (7200V)	CONNECT S. END OF CONDUIT TO NEW 3"C IN CONDUIT RUN #12a. EXTEND N. END OF CONDUIT TO HH-17. CONNECT S. END OF CONDUIT TO NEW 3"C IN CONDUIT RUN #12a. EXTEND N. END OF CONDUIT TO HH-39. CONNECT S. END OF CONDUIT TO NEW 3"C IN CONDUIT RUN #12a. EXTEND N. END OF CONDUIT TO HH-18. EXTEND THE S. END OF CONDUIT TO HH-27. EXTEND THE N. END OF CONDUIT TO HH-17.
		1 NO. 2, 15KV (N)	EQUIP. POWER (2400V)	
	3"C (E)	(2) ~~(1)~~ 20 NO. 18, 600V (N)	LTG. CONTROLS	
	3"C (E)	(1) 50 PR. TELE. CABLE (N)	FAA CONTROL	
	3"C (E)	1 NO. 6, 5KV (N)	TWY. LTS.	
		1 NO. 6, 5KV (N)	RWY. LTS.	
11a & 11e	2"C (N)	1 NO. 6, 5KV (N)	RWY. LTS.	
11b	2"C (N)	1 NO. 2, 15KV (N)	EQUIP. POWER (2400V)	
11c	2"C (E)	2 NO. 6, 5KV (E)	TWY. LTS.	EXTEND N. END OF CONDUIT TO HH-17. PROVIDE NEW CABLE BETWEEN HH-17 AND FIRST TWY. LIGHT.
11d	1"C (N)	2 NO. 10, 600V (N)	OBSTRUCTION LTS. (120V)	
12a	3"C (N)	1 NO. 2, 15KV (N)	UTIL. PRI. (7200V)	CONNECT S. END OF CONDUIT TO EXISTING 3"C IN RUN #13. CONNECT N. END TO EXTG. 3" CONDUIT IN RUN #9. LOCATE ~~HH-34~~ AT THE LOW POINT OF THIS CONDUIT RUN. BURY CONDUIT AT 24" BELOW GRADE. ENCASE IN 4" CONCRETE ALL SIDES.
		1 NO. 2, 15KV (N)	EQUIP. POWER (2400V)	CONNECT S. END OF CONDUIT TO EXISTING 3"C IN RUN #13. CONNECT N. END TO EXTG. 3" CONDUIT IN RUN #9. LOCATE HH-36 AT THE LOW POINT OF THIS CONDUIT RUN. BURY CONDUIT AT 24" BELOW GRADE. ENCASE IN 4" CONCRETE ALL SIDES.
	3"C (N)	(2) ~~(1)~~ 20 NO. 18, 600V (N)	LTG. CONTROLS	EXTEND S. END OF CONDUIT TO EXISTING 3"C IN RUN #13. CONNECT N. END TO EXTG. 3" CONDUIT IN RUN #9. LOCATE HH-35 AT THE LOW POINT OF THIS CONDUIT RUN. BURY CONDUIT AT 24" BELOW GRADE. ENCASE IN 4" CONCRETE ALL SIDES.
	3"C (N)	(1) 50 PR. TELE. CABLE (N)	FAA CONTROL	CONNECT S. END OF CONDUIT TO EXISTING 3"C IN RUN #13. CONNECT N. END TO HH-27. LOCATE HH-34 AT THE LOW POINT OF THIS CONDUIT RUN. THE 1 NO. 6 RWY. LTG. CABLE SHALL ONLY BE ROUTED BETWEEN HH-34 AND HH-27.
	3"C (N)	2 NO. 6, 5KV (N)	TWY. LTS.	
		1 NO. 6, 5KV (N)	RWY. LTS.	
12b	2"C (E)	2 NO. 6, 5KV (E)	TWY. LTS.	REROUTE N.W. END OF CONDUIT TO HH-27. PROVIDE NEW CABLE BETWEEN THE LAST TWY. LIGHT AND HH-27.
12c	2"C (N)	1 NO. 6, 5KV (N)	RWY. LTS.	
13	3"C (E)	1 NO. 2, 15KV (N)	UTIL. PRI. (7200V)	EXTEND S. END OF CONDUIT TO HH-15. CONNECT N. END TO NEW 3"C IN RUN #12a.
		1 NO. 2, 15KV (N)	EQUIP. POWER (2400V)	
	3"C (E)	2 NO. 6, 5KV (N)	TWY. LTS.	EXTEND S. END OF CONDUIT TO HH-15. CONNECT N. END TO NEW 3"C IN RUN #12a. EXTEND S. END OF CONDUIT TO HH-38. CONNECT N. END TO NEW 3"C IN RUN #12a. EXTEND S. END OF CONDUIT TO HH-16. CONNECT N. END TO NEW 3"C IN RUN #12a. EXTEND N. & S. ENDS 5' AND CAP UNDERGROUND. NOTE LOCATION ON AS-BUILTS BY RWY STATION AND OFFSET.
	3"C (E)	(2) ~~(1)~~ 20 NO. 18, 600V (N)	LTG. CONTROL	
	3"C (E)	(1) 50 PR. TELE. CABLE (N)	FAA CONTROL	
	(2) 3"C (E)		SPARE	
14a & 14c & 15	2"C (N)	1 NO. 6, 5KV (N)	RWY. LTS.	

NO.	RACEWAY	CONDUCTOR	PURPOSE	INSTRUCTIONS
14b	2"C (E)	2 NO. 6, 5KV (E)	TWY. LTS.	REROUTE N. END TO THE HH-37. PROVIDE NEW CABLE BETWEEN HH-37 AND THE FIRST TWY. LIGHT.
16a	(2) 1 1/2"C (E)		ABANDONED	
16b	4"C (N)	1 NO. 2, 15KV (N)	UTIL. PRI. (7200V)	CONNECT S. END OF CONDUIT TO THE 75 KVA, 7200V, 120/240V PADMOUNT XFMR.
	2"C (N)	2 NO. 6, 5KV (N)	TWY. LTS.	CONNECT S. END OF CONDUIT TO THE TWY. LIGHTING REGULATOR IN NEW CONTROL BLDG.
	2"C (N)	2 NO. 6, 5KV (N)	RWY. LTS.	CONNECT S. END OF CONDUIT TO THE RWY. LIGHTING REGULATOR IN NEW CONTROL BLDG.
	2"C (N)	1 NO. 2, 15KV (N)	EQUIP. POWER (2400V)	CONNECT S. END OF CONDUIT TO THE 10 KVA 240:2400V XFMR. IN NEW CONTROL BLDG.
	2"C (N)		SPARE	STUB S. END OF CONDUIT UP ON THE INTERIOR SIDE OF SOUTH WALL ADJACENT TO TWY. LIGHTING REGULATOR. SEE FLOOR PLAN SHEET E-11.
16c	4"C (N)	(1) 50 PR. TELE. CABLE (N)	FAA CONTROL	STUB S. END OF CONDUIT UP ON THE TELE. TERMINAL BOARD (TTB) IN THE FAA BLDG.
	4"C (N)		SPARE	STUB S. END OF CONDUIT UP ON THE TTB IN THE FAA BUILDING.
16d	2"C (N)	(1) 6 PR. TELE. CABLE (N)	CONTROL BLDG. TELE.	STUB W. END UP ON THE TTB IN THE FAA BLDG. STUB THE E. END UP ON THE TTB IN THE NEW CONTROL BUILDING.
	2"C (N)	3 NO. 1/0, 600V (N)	FAA BLDG. POWER (240V)	CONNECT THE W. END OF CONDUIT TO THE 200 AMP FUSE DISCONNECT INSIDE THE FAA BUILDING. CONNECT THE E. END TO THE 100 AMP ATS. IN THE NEW CONTROL BUILDING.
16e	1"C (N)	3 NO. 10, 600V (N)	BEACON	STUB S. END OF CONDUIT UP INTO THE BEACON POLE. CONNECT N. END OF CONDUIT TO THE LIGHTING CONTROL PANEL.
16f	3"C (N)	2 NO. 500 MCM, & 1 NO. 1/0 NEUT., 600V (N)	NEW CONTROL BLDG. SERVICE POWER	CONNECT N. END OF CONDUIT TO PAD MOUNT TRANSFORMER. CONNECT S. END OF CONDUIT TO TERMINAL BUS ENCLOSURE ON THE SIDE OF THE NEW CONTROL BUILDING.
16g	1"C (N)	2 NO. 10, 600V (N)	ASOS SERVICE	CONNECT S.W. END TO ASOS EQUIP. WIREWAY. PULL CONDUCTORS TO WIREWAY AND LEAVE FOR CONNECTION TO EXTG. DISCONNECT BY THE FAA. CONNECT N.E. END TO 30/2 C/B IN NEW CONTROL BLDG (SEE SHEET E-8).
16h	2"C (N)	(2) ~~(1)~~ 20 NO. 18, 600V (N)	LIGHTING CONTROL	CONNECT S. END OF CONDUIT TO THE LIGHTING CONTROL PANEL IN THE NEW CONTROL BLDG.
17a	2"C (E)	2 NO. 6, 5KV (E)	TWY. LTS.	
17b	2"C (E)	2 NO. 6, 5KV (N)	TWY. LTS.	REROUTE W. END OF CONDUIT TO TWY. LIGHT BASE ADJACENT RWY. LIGHT BASE. REMOVE EXTG. CONDUIT BETWEEN RWY LIGHT BASE AND ADJACENT TWY LIGHT BASE AS SHOWN.
18a	2" ~~1 1/4~~"C (N&E)	1 NO. 6, 5KV (N)	RWY. LTS.	THE EXISTING PORTION OF THIS CONDUIT LIES UNDER THE COAST GUARD TAXIWAY. CONNECT NEW 1 1/4"C TO THE N. END OF THE EXTG. CONDUIT AND ROUTE TO HH-23. CONNECT NEW CONDUIT TO THE S. END AND ROUTE TO THE RWY. LIGHT AS SHOWN ON SHEET E-4.
18b	1 1/2"C (E)	1 NO. 6, 5KV (E) 2 NO. 6, 5KV (E)	RWY. LTS. TWY. LTS.	REROUTE N. END OF THIS CONDUIT TO HH-23. PROVIDE NEW CABLE FROM HH-23 TO FIRST TWY. LIGHT.
18c	1 1/2"C (N&E)	2 NO. 6, 1 NO. 10 GND., 600V (N)	EQUIP. POWER (240V)	THE EXTG. PORTION OF THIS CONDUIT RUN IS UNDER THE COAST GUARD TAXIWAY. EXTEND THE N. END TO HH-22. EXTEND THE S. END TO HH-24.
18d & 18e	2"C (N)	2 NO. 6, 1 NO. 10 GND., 600V (N)	EQUIP. POWER (240V)	
19	3"C (E)	2 NO. 6, 1 NO. 10 GND., 600V (N)	EQUIP. POWER (240V)	EXTEND THE N. END OF CONDUIT TO HH-22. CONNECT THE S. END TO THE NEW 3"C IN RUN #25.
	3"C (E)	1 NO. 6, 5KV (N)	RWY. LTS.	EXTEND THE N. END OF CONDUIT TO HH-23. EXTEND THE S. END TO HH-37.
		1 NO. 6, 5KV (N)	TWY. LTS.	EXTEND THE N. END OF CONDUIT TO HH-22. EXTEND THE S. END 5' AND CAP UNDERGROUND. NOTE LOCATION ON AS-BUILTS BY RWY. STA. AND OFFSET.
	3"C (E)		SPARE	
	3"C (E)		SPARE	EXTEND THE N. END OF CONDUIT TO HH-23. EXTEND THE S. END TO HH-37.
20a	1 1/2"C (E)		ABANDONED	
20b	1 1/4"C (E)	1 NO. 6, 5KV (E)	TWY. LTS.	REROUTE S. END INTO HH-23. PROVIDE NEW CABLE BETWEEN HH-23 AND FIRST TWY. LIGHT.
21	1 1/4"C (E)	1 NO. 6, 5KV (E)	TWY. LTS.	REROUTE S. END INTO HH-37. PROVIDE NEW CABLE BETWEEN HH-37 AND FIRST TWY. LIGHT.
22	3"C (E)	1 NO. 6, 5KV (E)	TWY. LTS.	SPLICE THE CABLE IN RUN #22 TO THE CABLE IN RUN #20b.
	3"C (E)	2 NO. 8, 5KV (E)	ABANDONED	
	3"C (E)		ABANDONED	
25	3"C (N)	2 NO. 6, 1 NO. 10 GND. 600V, (N)	EQUIP. POWER (240V)	CONNECT N.W. END OF CONDUIT TO THE EXTG. 3"C IN RUN #19. CONNECT THE S.E. END TO HH-21.
26a	4"C (N)	1 NO. 2, 15KV (N)	UTIL. PRI. (7200V)	
	4"C (N)		UTIL. PRI. SPARE	
26b	4"C (N)	(1) 50 PR. TELE. CABLE (N)	FAA CONTROL	CONNECT N. END TO THE TELE. DEMARCATION.
	4"C (N)		TELE. SPARE	CONNECT N. END TO THE TELE. DEMARCATION.
26c	3/4"C (N)	4 PR. TELE. CABLE (N) (PROVIDED BY CONTRACTOR)	CEILING LIGHT CONTROL	CONNECT W. END TO TELE. DEMARCATION. CONNECT E. END TO CEILING LIGHT AROUND EXTG. FOUNDATION.
26d	3/4"C (N)	2 NO. 10, 1 NO. 12 GND., 600V (N)	CEILING LIGHT POWER	CONNECT W. END TO NEW METER. CONNECT E. END TO CEILING LIGHT AROUND EXTG. FOUNDATION.
26e	2"C (N)	1 NO. 2, 15KV (N)	UTILITY PRIMARY (7200V)	ROUTE W. END UP POLE AND CONNECT CABLE TO PRIMARY LINE PER SITKA ELECTRIC DEPARMENT'S REQUIREMENTS.
26f	2"C (N)	(2) ~~(1)~~ 20 NO. 18, 600V (N)	LIGHTING CONTROLS	ROUTE N.W. END UP THE SIDE OF THE FAA FSS BLDG. ROUTE THROUGH BUILDING TO NEW LIGHTING CONTROL PANEL IN THE EXTG. CONSOLE IN THE FSS. INSTALL HH-40 NEAR MIDPOINT OF RUN WHERE SHOWN.
27	2"C (E)	2 NO. 8, 5KV (E)	COAST GUARD TWY. LTS.	
28 & 29	2"C (E)	1 NO. 8, 5KV (E)	COAST GUARD TWY. LTS.	
30a	(3) 1 1/2"C (E)		ABANDONED	
30b	1 1/2"C (E)	2 NO. 6, 5KV (E)	TWY. LTS.	NO CONDUCTORS BETWEEN HH-0 AND FIRST TWY LT. CONDUIT IS ABANDONED. SEE CONDUIT RUN #26b, SHEETS E-2 AND E-3.

HANDHOLE SCHEDULE

NO. (HH-#)	LOCATION	INSTRUCTIONS
0	NO CHANGE	TO REMAIN
1		TO REMAIN
2		TO REMAIN
3		TO REMAIN
4		TO REMAIN
5a		TO REMAIN
5b		TO REMAIN
5c		TO REMAIN
5d		REMOVE & BACKFILL
5e		REMOVE & BACKFILL
5f		TO REMAIN
5g		REMOVE & BACKFILL
5h		REMOVE & BACKFILL
6		REMOVE & BACKFILL
7		REMOVE & BACKFILL
8		REMOVE & BACKFILL
9		REMOVE & BACKFILL
10		REMOVE & BACKFILL
11		REMOVE & BACKFILL
12		TO REMAIN
13		TO REMAIN
14		REMOVE & BACKFILL
15	95' LT OF RWY ℄	INSTALL NEW TYPE 1
16	100' LT OF RWY ℄	INSTALL NEW TYPE 1
17	20' FROM TWY EDGE LINE	INSTALL NEW TYPE 1
18	15' FROM TWY EDGE LINE	INSTALL NEW TYPE 1
19	5' FROM VASI XFMR	INSTALL NEW TYPE 2
20	10' FROM VASI XFMR	INSTALL NEW TYPE 2
21	5' FROM VASI CONTROLS	INSTALL NEW TYPE 2
22	20' FROM TWY EDGE LINE	INSTALL NEW TYPE 3
23	10' FROM TWY EDGE LINE	INSTALL NEW TYPE 3
24	30' FROM TWY EDGE LINE	INSTALL NEW TYPE 2
25	10' FROM REIL	INSTALL NEW TYPE 2
26	OPPOSITE LASER CEILOMETER	INSTALL NEW TYPE 2
27	10' FROM TWY EDGE LINE	INSTALL NEW TYPE 3
28	NEXT TO F.S.S.	~~NOT USED~~
29	EXTG GEN. BLDG. LOCATION	INSTALL NEW TYPE 4
30	60.5' APPROX. STA. 108+97 90' RT OF RWY ℄	INSTALL NEW TYPE 2
31	101' APPROX. STA. 113+97 90' RT OF RWY ℄	INSTALL NEW TYPE 2
32	140' APPROX. STA. 98+99 90' RT OF RWY ℄	INSTALL NEW TYPE 2
33	390' APPROX. STA. 160+40 90' RT OF RWY ℄	INSTALL NEW TYPE 2
34	LOW POINT IN CONDUIT RUN 12a	INSTALL NEW TYPE 3
35	LOW POINT IN CONDUIT RUN 12a	INSTALL NEW TYPE 3
36	LOW POINT IN CONDUIT RUN 12a	INSTALL NEW TYPE 3
37	10' FROM TWY EDGE LINE	INSTALL NEW TYPE 3
38	105' LT. OF RWY ℄	INSTALL NEW TYPE 1
39	10' FROM TWY EDGE LINE	INSTALL NEW TYPE 1
40	ADJACENT TO POLE W/ FAA METER	INSTALL NEW TYPE 2
41	BETWEEN HH-22 & HH-23	RUN IBC TO INTO TAXIWAY LIGHT

NEW AIRPORT SIGN SUMMARY

SIGN NO.	LEGEND	LETTER SIZE & COLOR	BACKGROUND COLOR	LEGEND DIRECTION	STATION	RWY OR TWY OFFSET DISTANCE TO NEAR EDGE OF SIGN	REMARKS	TYPE	SIZE	# OF MODULES
1a	MIL	12" BLACK	YELLOW	S	C.G. TWY	20' FROM TWY EDGE LINE	NEW ~~RELOCATE~~ SIGN OPPOSITE OF NEW T/W HOLD SHORT LINE	DESTINATION	1	AS NECESSARY
1b	M/11	12" YEL/WHITE	BLACK/RED	N	C.G. TWY	20' FROM TWY EDGE LINE	NEW ~~RELOCATE~~ SIGN OPPOSITE OF NEW T/W HOLD SHORT LINE	LOCATION/HOLDING POS.	1	AS NECESSARY
2a	APRON	12" BLACK	YELLOW	S.W.	TWY	20' FROM TWY EDGE LINE		DESTINATION	1	AS NECESSARY
2b	A/11	12" YEL/WHITE	BLACK/RED	N.E.	TWY	20' FROM TWY EDGE LINE		LOCATION/HOLDING POS.	1	AS NECESSARY
3	A —	12" BLACK	YELLOW	E	158	95' RT OF RWY ℄	NEW ~~RELOCATE~~ SIGN	RUNWAY EXIT	1	AS NECESSARY
4	A	12" YELLOW	BLACK	N.E.	TWY	20' FROM TWY EDGE LINE	NEW SIGN	LOCATION	1	AS NECESSARY
5	B	12" YELLOW	BLACK	N.W.	TWY	20' FROM TWY EDGE LINE	NEW SIGN	LOCATION	1	AS NECESSARY
6	\ B \	12" BLACK	YELLOW	N	TWY	20' FROM TWY EDGE LINE	NEW SIGN	TAXIWAY DIRECTION	1	AS NECESSARY
7a	APRON	12" BLACK	YELLOW	S.E.	TWY	20' FROM TWY EDGE LINE		DESTINATION	1	AS NECESSARY
7b	B/29-11	12" YEL/WHITE	BLACK/RED	N.W.	TWY	20' FROM TWY EDGE LINE		LOCATION/HOLDING POS.	1	AS NECESSARY
8	— B	12" BLACK	YELLOW	W	140	95' RT OF RWY ℄	NEW ~~EXPAND-AND-RELOCATE~~ SIGN	RUNWAY EXIT	1	AS NECESSARY
9	B —	12" BLACK	YELLOW	E	134	95' RT OF RWY ℄	NEW ~~EXPAND-AND-RELOCATE~~ SIGN	RUNWAY EXIT	1	AS NECESSARY
10a	5	25" WHITE	BLACK	W	152	100' RT OF RWY ℄		RUNWAY DIST. REMAINING	5	AS NECESSARY
10b	1	25" WHITE	BLACK	E	152	100' RT OF RWY ℄		RUNWAY DIST. REMAINING	5	AS NECESSARY
11a	4	25" WHITE	BLACK	W	142	100' RT OF RWY ℄		RUNWAY DIST. REMAINING	5	AS NECESSARY
11b	2	25" WHITE	BLACK	E	142	100' RT OF RWY ℄		RUNWAY DIST. REMAINING	5	AS NECESSARY
12a	3	25" WHITE	BLACK	W	132	100' RT OF RWY ℄		RUNWAY DIST. REMAINING	5	AS NECESSARY
12b	3	25" WHITE	BLACK	E	132	100' RT OF RWY ℄		RUNWAY DIST. REMAINING	5	AS NECESSARY
13a	2	25" WHITE	BLACK	W	122	100' RT OF RWY ℄		RUNWAY DIST. REMAINING	5	AS NECESSARY
13b	4	25" WHITE	BLACK	E	122	100' RT OF RWY ℄		RUNWAY DIST. REMAINING	5	AS NECESSARY
14a	1	25" WHITE	BLACK	N	111 + 80	100' RT OF RWY ℄		RUNWAY DIST. REMAINING	5	AS NECESSARY
14b	5	25" WHITE	BLACK	E	111 + 80	100' RT OF RWY ℄		RUNWAY DIST. REMAINING	5	AS NECESSARY

NOTES: AIRPORT SIGNS

1. ALL SIGNS NEW OR EXISTING SHALL COMPLY WITH FAA A/C 5340-18C, A/C 150/5345-44F, AND WITH THE SPECIFICATIONS. UPGRADE THE EXISTING SIGNS OR REPLACE THEM WITH NEW SIGNS TO COMPLY WITH THESE REQUIREMENTS.
2. REPLACE ALL EXISTING SIGN FOUNDATIONS, INCLUDING LIGHT BASES AND COVERS, FRANGIBLE COUPLINGS, MOUNTING HARDWARE, & ELECTRICAL DISCONNECTS.
3. NEW ~~RELOCATE THE~~ RUNWAY DISTANCE REMAINING SIGNS AS SHOWN. ALIGN ALL SIGNS WITH A LASER SURVEYING TRANSIT.
4. ALL MEASUREMENT USING THE TAXIWAY EDGE LINE SHALL BE FROM THE OUTSIDE EDGE OF THE EDGE LINE.
5. PROVISION OF SIGN #'S 1a-9 SHALL BE INCLUDED IN BID ALTERNATE #2.

THE AIRPORT SIGN SUMMARY ON THIS SHEET HAS BEEN REVIEWED AND ACCEPTED BY FAA AAL-620.

_____ DATE_____

NOTES: CABLING SCHEDULE

1. IN EVERY HANDHOLE ALL CONDUCTORS AND CABLES SHALL BE LABELED WITH A NYLON IDENTIFICATION TAG BEARING THE CIRCUIT TYPE (AS DESCRIBED UNDER THE "PURPOSE" COLUMN OF THIS SCHEDULE), AND THE CIRCUIT VOLTAGE STAMPED ON THE TAG.
2. ALL CONDUITS SHALL BE CLEANED WITH A FLEXIBLE MANDREL UTILIZING GRADUATED DISKS OF HARDENED STEEL PRIOR TO INSTALLING CABLE OR CAPPING ENDS OF SPARE CONDUIT.
3. ALL SPARE CONDUITS SHALL BE CAPPED WITH A WATERTIGHT SEAL AT BOTH ENDS.
4. PULL A ~~BARE~~ GREEN INSULATED STRANDED GROUND CONDUCTOR IN ALL CONDUIT RUNS. BOND THE GROUND CONDUCTOR TO ALL LIGHT BASES, HANDHOLES, EQUIPMENT, ENCLOSURES, AND STRUCTURES CONNECTED TO THE CONDUIT. USE A NO. 6 CONDUCTORS WITH ALL CONDUITS CARRYING GREATER THAN 600V CABLE, UON.
5. ALL TELEPHONE CABLE WILL BE SUPPLIED AND INSTALLED BY PTI, UON.
6. THE CONDUIT IN RUN NOS. 16b, 16c, & 16h SHALL BE ROUTED FROM HANDHOLES NOS. 15, 16, & 38 TO THE ACCESS ROAD. THE CONDUITS SHALL BE BURIED PER THE TRENCH DETAIL ON SHEET E6 TO THIS POINT. AT THE ROAD, THE CONDUITS SHALL BE ALLOWED TO SURFACE AND LAY ON THE ROAD. THE 4" CONDUITS CONTAINING THE UTILITY PRIMARY CABLE AND TELEPHONE CABLE SHALL BE ENCASED IN 4" OF CONCRETE ON ALL SIDES. A NEW ROAD SHALL BE BUILT OVER THE CONDUITS. PER THE DETAIL ON SHEET E6, AND PER THE CIVIL DRAWINGS AND SPECIFICATIONS.
7. PROVIDE ALL CABLES & CONDUCTORS UNLESS OTHERWISE NOTED.
8. THE AIRPORT MANAGER HAS 20,000' OF NO. 6, 5 KV CABLE. THIS CABLE WILL BE FURNISHED AT NO COST.
9. WHEN EXISTING TAXIWAY LIGHTING CABLES ARE REPLACED OR REMOVED, RECONNECT EXISTING ISOLATION TRANFORMERS IN EXISTING LIGHT BASES AS SHOWN OR AS NECESSARY.

NOTES: HANDHOLE SCHEDULE

SEE CIVIL SHEETS FOR EXACT LOCATION OF HH's 15, 16, 17, 18, 22, 23, 27, 34, 35, 36, 37, 38, & 39. COORDINATE EXACT LOCATION OF ALL OTHER HAND HOLES WITH THE CONTRACTING OFFICER. REFER TO SHEET E-6 FOR HAND HOLE DETAILS.

BY:	DATE:	DESCRIPTION OF CHANGE:

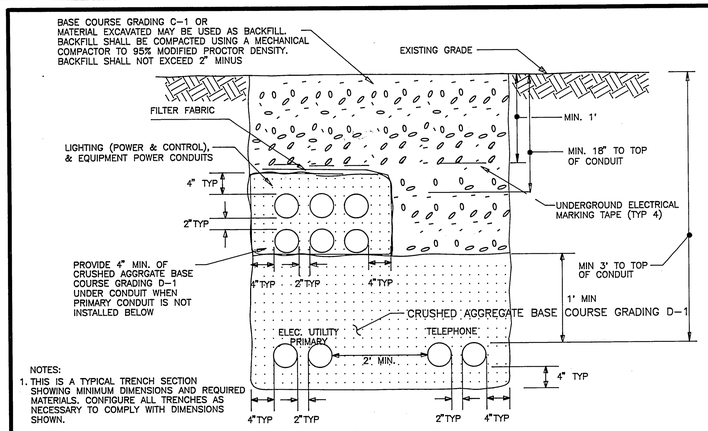
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & CONSTRUCTION

SITKA AIRPORT ELECTRICAL AND LIGHTING IMPROVEMENTS
SITKA ALASKA
NEW CABLING SCHEDULE

HAIGHT & McLAUGHLIN, INC.
CONSULTING ENGINEERS
418 Harris Street, Juneau, Alaska 99801 (907) 586-9788

ENGINEER'S SEAL
STATE OF ALASKA
49th
B.C. HAIGHT
EE 4800
REGISTERED PROFESSIONAL ENGINEER

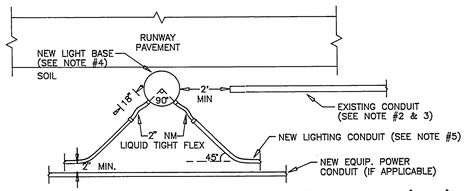
DESIGNED BY: MGM	DATE: MAY 1994	PROJECT No. 71457
DRAWN BY: JLC		E-5
CHECKED BY: BCH		SHEET 7 OF 20



NOTES:

1. THIS IS A TYPICAL TRENCH SECTION SHOWING MINIMUM DIMENSIONS AND REQUIRED MATERIALS. CONFIGURE ALL TRENCHES AS NECESSARY TO COMPLY WITH DIMENSIONS SHOWN.
2. BURY ELEC. UTILITY PRIMARY CONDUIT AND TELEPHONE CONDUIT AT 36" MIN. BELOW FINISH GRADE UNLESS OTHERWISE NOTED. IF SOLID ROCK IS ENCOUNTERED THE CONDUIT MAY BE RAISED TO 18" BELOW FINISH GRADE IF ENCASED IN 4" OF CONCRETE ALL SIDES AND APPROVED BY THE PROJECT ENGINEER.
3. BURY ALL OTHER CONDUIT AT 18" MINIMUM BELOW FINISH GRADE UNLESS OTHERWISE NOTED.
4. ALLOW NO MORE THAN 3% SLOPE IN CONDUIT.
5. EQUIPMENT USED TO DIG THE TRENCH SHALL NOT HAVE A BUCKET OR BLADE WIDTH GREATER THAN 18", UNLESS ALLOWED IN WRITING FROM THE CONTRACTING OFFICER ON A CASE BY CASE BASIS.
6. NEW CONDUIT TRENCH FOR THE SEA SIDE OF ADDITIVE ALTERNATE NO. 1 RUNWAY LIGHTING SHALL INCLUDE FILTER FABRIC LINING THE TRENCH FOLDED OVER THE TOP OF THE BEDDING AND STITCHED 12" O.C.

DETAIL: CONDUIT TRENCH (TYP)
NO SCALE



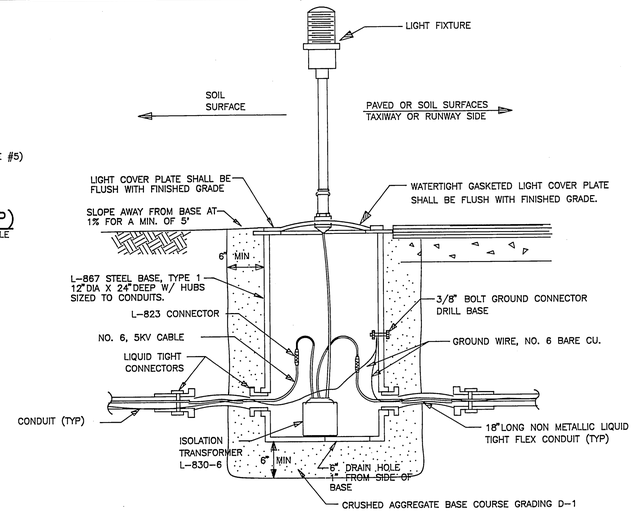
DETAIL: LIGHT BASE & CONDUIT INSTALLATION (TYP)
NO SCALE

NOTES:

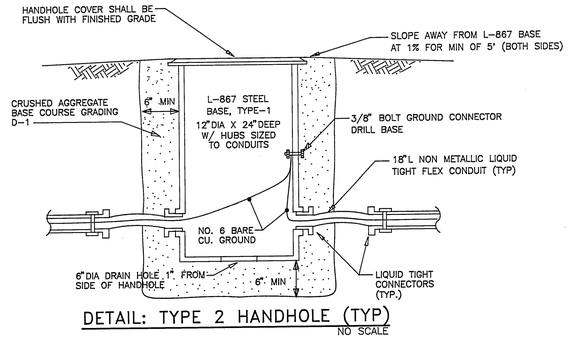
1. REMOVE THE EXISTING LIGHT BASES AND THE EXISTING CABLES.
2. WHERE THE EXISTING CONDUIT IS LESS THAN 2' FROM EDGE OF PAVEMENT, CUT THE CONDUIT BACK 2' FROM THE NEW LIGHT BASE LOCATION AND ABANDON THE REMAINDER OF THE CONDUIT IN PLACE, UNLESS OTHERWISE NOTED.
3. REMOVE THE EXISTING CONDUIT WHERE IT IS LOCATED 2' OR MORE FROM THE EDGE OF THE PAVEMENT.
4. INSTALL THE NEW RUNWAY LIGHT BASES 85' FROM THE CENTER LINE OF THE RUNWAY TO THE CENTER OF THE LIGHT LENS WHEN INSTALLED ON THE BASE. INSTALL THE NEW TAXIWAY LIGHT BASES 10' FROM THE OUTSIDE EDGE OF THE EDGE LINE TO THE CENTER OF THE LIGHT LENS WHEN INSTALLED ON THE BASE.
5. INSTALL THE NEW CONDUIT THE FOLLOWING DISTANCE FROM THE EDGE OF THE PAVEMENT:

DISTANCE: UON	PAVEMENT SURFACE
4'	RUNWAY

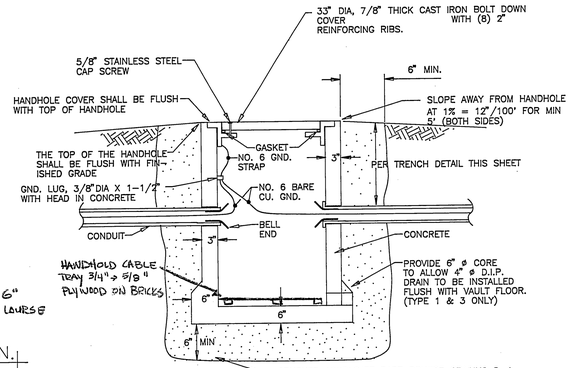
6. BACKFILL BY HAND WHERE MATERIAL SLUFFS OUT FROM UNDER THE RUNWAY OR TAXIWAY. COMPACT TO THE SATISFACTION OF THE CONTRACTING OFFICER.



DETAIL: TAXIWAY/RUNWAY EDGE LIGHT (TYP)
NO SCALE



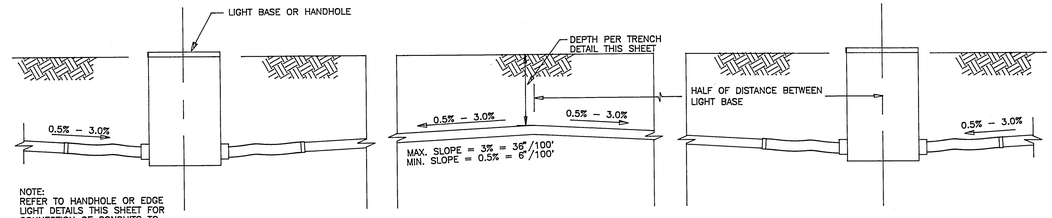
DETAIL: TYPE 2 HANDHOLE (TYP)
NO SCALE



DETAIL: TYPE 1, 3, & 4 HANDHOLE (TYP)
NO SCALE

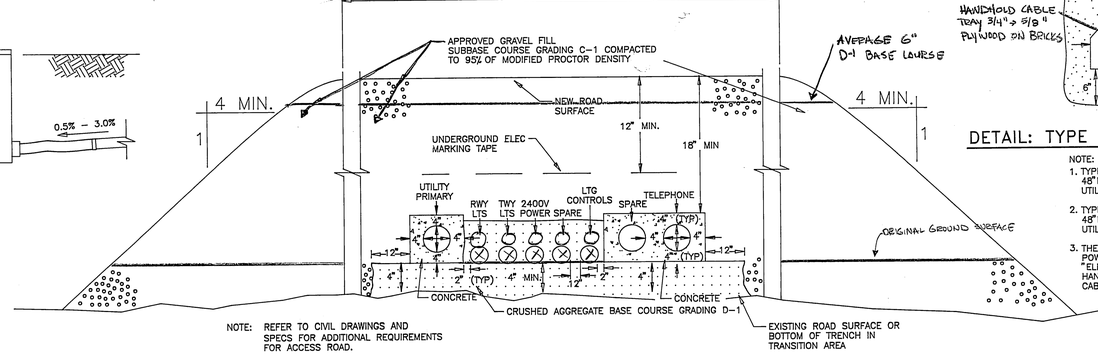
NOTE:

1. TYPE 1 HANDHOLE SHALL BE 48"WIDE X 48"LONG X 48"DEEP OUTSIDE DIMENSIONS. UTILIVAULT 444-LA OR APPROVED EQUAL.
2. TYPE 3 AND 4 HANDHOLES SHALL BE 48"WIDE 48"LONG X 36"DEEP OUTSIDE DIMENSIONS. UTILIVAULT 443-LA OR APPROVED EQUAL.
3. THE COVERS FOR HAND HOLES CONTAINING POWER CABLES SHALL BE LABELED "ELECTRICAL". THE COVERS FOR HAND HOLES CONTAINING TELEPHONE CABLES SHALL BE LABELED "TELEPHONE".



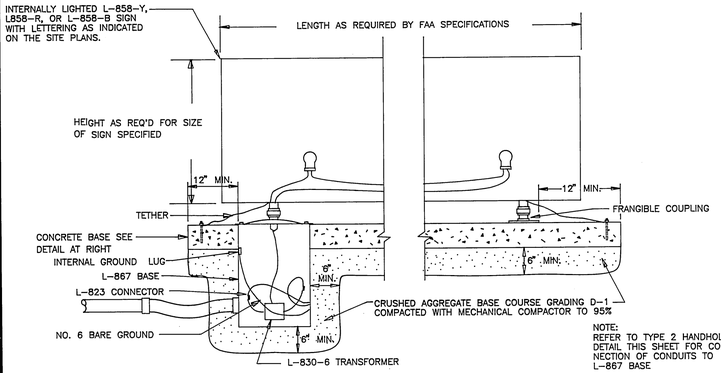
NOTE:
REFER TO HANDHOLE OR EDGE LIGHT DETAILS THIS SHEET FOR CONNECTION OF CONDUITS TO HANDHOLES OR L-867 BASES.

DETAIL: CONDUIT INSTALLATION (TYP)
NO SCALE

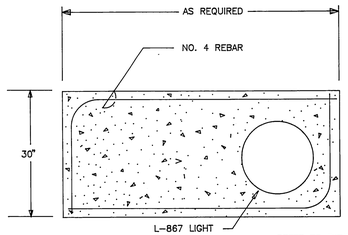


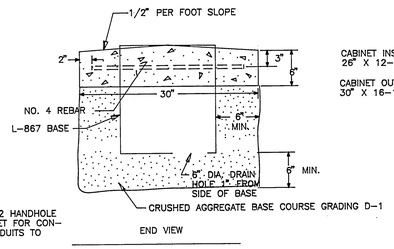
NOTE: REFER TO CIVIL DRAWINGS AND SPECS FOR ADDITIONAL REQUIREMENTS FOR ACCESS ROAD.

DETAIL - CONDUIT IN NEW ACCESS ROAD
NO SCALE

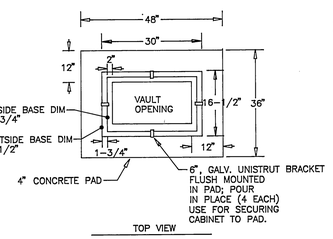


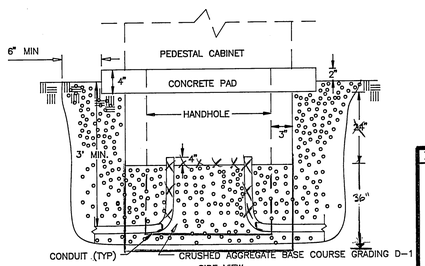
NOTE:
REFER TO TYPE 2 HANDHOLE DETAIL THIS SHEET FOR CONNECTION OF CONDUITS TO L-867 BASE





REFER TO TYPE 2 HANDHOLE DETAIL THIS SHEET FOR CONNECTION OF CONDUITS TO L-867 BASE





DETAIL: PRIMARY PEDESTAL (TYPE 5 HANDHOLE)
NO SCALE

DETAIL - LIGHTED SIGN
NO SCALE

ENGINEER'S SEAL
STATE OF ALASKA 49th
LARRY HARMON CE 4284
REGISTERED PROFESSIONAL ENGINEER

ENGINEER'S SEAL
STATE OF ALASKA 49th
B.C. HAIGHT EE 4800
REGISTERED PROFESSIONAL ENGINEER

HAIGHT & McLAUGHLIN, INC.
CONSULTING ENGINEERS
418 Harris Street, Juneau, Alaska 99801 (907) 586-9788

BY:	DATE:	DESCRIPTION OF CHANGE:

RECORD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & CONSTRUCTION

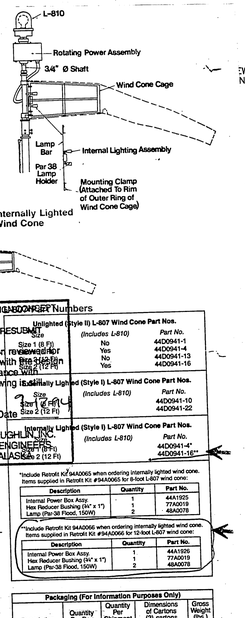
SITKA AIRPORT ELECTRICAL AND LIGHTING IMPROVEMENTS
SITKA ALASKA
HANDHOLES, LIGHTS & SIGNS DETAILS

DESIGNED BY: MGM	DATE: MAY, 1994	PROJECT No. 71457
DRAWN BY: JLC		E-6
CHECKED BY: BCH		SHEET 8 OF 20

ernal lighting assembly consists of a group of
-watt PAR floodlights mounted at 90° intervals
ction box and provides a minimum illumination
oot candles on any part of the upper surface of
xtended wind cone. The internally lighted wind
onsists of two 150W PAR floodlights which
te the interior of the wind cone. A 69W/120Vac
is supplied with the lighted wind cone
lies.

y of Operation

eration of the wind cone is entirely dependent
direction and relative velocity of the surface
ovement of the wind through the open throat of
e and into the sock causes the tail to inflate and
the wind direction. The tail of the inflated sock
s true wind direction and wind velocities as low
knots through a full 360° circle.



☐ CONFORMS TO DESIGN CRITERIA
☐ REVISE AS SHOWN
☐ NONCONFORMING, RESUBMIT

This submittal has been reviewed for general conformance with the design concept only. Compliance with specifications and drawing is still required.

By _____ Date _____

HAIGHT & McLAUGHLIN, INC.
CONSULTING ENGINEERS
JUNEAU, ALASKA

Internally Lighted (Style II) L-807 Wind Cone Part Nos.

Size	(Includes L-810)	Part No.
Size 1 (8 Ft)	No	44D0941-1
	Yes	44D0941-4
Size 2 (12 Ft)	No	44D0941-13
	Yes	44D0941-16

Internally Lighted (Style I) L-807 Wind Cone Part Nos.

Size	(Includes L-810)	Part No.
Size 1 (8 Ft)		44D0941-10
Size 2 (12 Ft)		44D0941-22

Internally Lighted (Style I) L-807 Wind Cone Part Nos.

Size	(Includes L-810)	Part No.
Size 1 (8 Ft)		44D0941-4*
Size 2 (12 Ft)		44D0941-16**

*Include Retrofit Kit 94A0065 when ordering Internally lighted wind cone. Items supplied in Retrofit Kit #94A0065 for 8-foot L-807 wind cone:

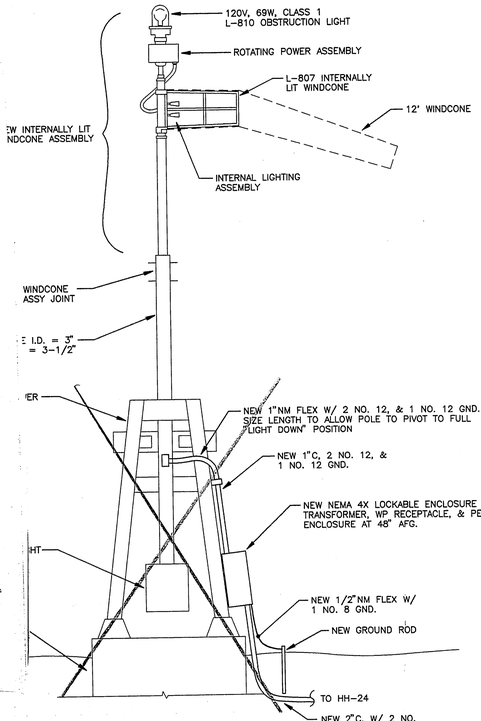
Description	Quantity	Part No.
Internal Power Box Assy	1	44A1925
Hex Reducer Bushing (¾" x 1")	1	77A0018
Lamp (Par-38 Flood, 150W)	3	48A0078

**Include Retrofit Kit 94A0066 when ordering internally lighted wind cone. Items supplied in Retrofit Kit #94A0066 for 12-foot L-807 wind cone:

Description	Quantity	Part No.
Internal Power Box Assy	1	44A1926
Hex Reducer Bushing (¾" x 1")	1	77A0018
Lamp (Par-38 Flood, 150W)	3	48A0078

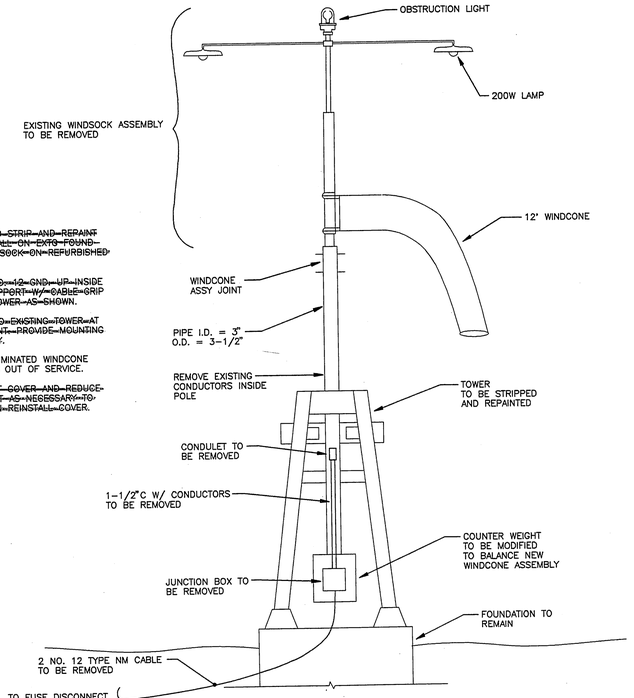
Packaging (For Information Purposes Only)

Description	Quantity Per Box	Quantity Per Shipment	Dimensions of Cartons (2) cartons	Gross Weight (lbs.)
Internally Lighted Wind Cone				



NEW CONFIGURATION

NEW L-807 WIND CONE INSTALLED WITH NEW BASE



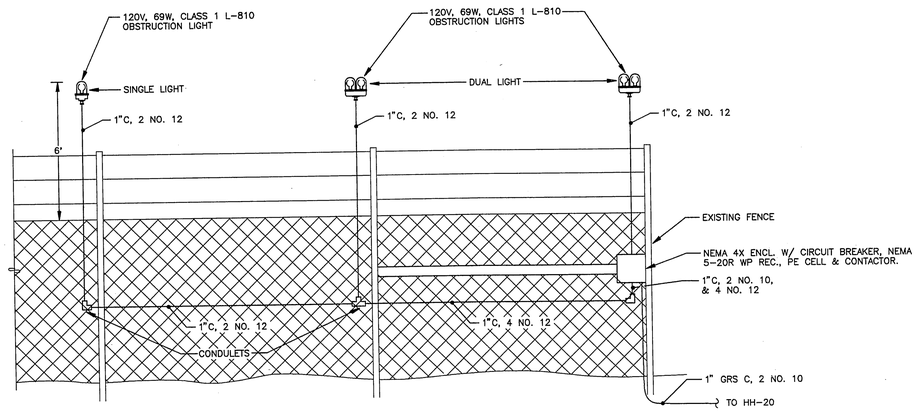
EXISTING CONFIGURATION

NOTES: WINDCONE

1. ~~REMOVE EXTG TOWER AND STRIP AND REPAINT PER SPEC. AND RE-INSTALL ON EXTG FOUND-ATION. INSTALL NEW WINDSOCK ON REFURBISHED TOWER.~~
2. ~~ROUTE 2 NO. 12 & 1 NO. 12 GND. UP INSIDE OF WINDCONE TOWER SUPPORT W/ CABLE GRIP AT TOP. PROVIDE NEW POWER AS SHOWN.~~
3. ~~MOUNT NEW WINDCONE TO EXISTING TOWER AT WINDCONE ASSEMBLY JOINT. PROVIDE MOUNTING HARDWARE AS NEGESSARY.~~
4. PROVIDE TEMPORARY ILLUMINATED WINDCONE WHEN MAIN WINDCONE IS OUT OF SERVICE.
5. ~~REMOVE COUNTER WEIGHT COVER AND REDUCE SIZE OF COUNTER WEIGHT AS NEGESSARY TO BALANCE POLE AND THEN REINSTALL COVER.~~

ILLUMINATED WINDCONE

NO SCALE

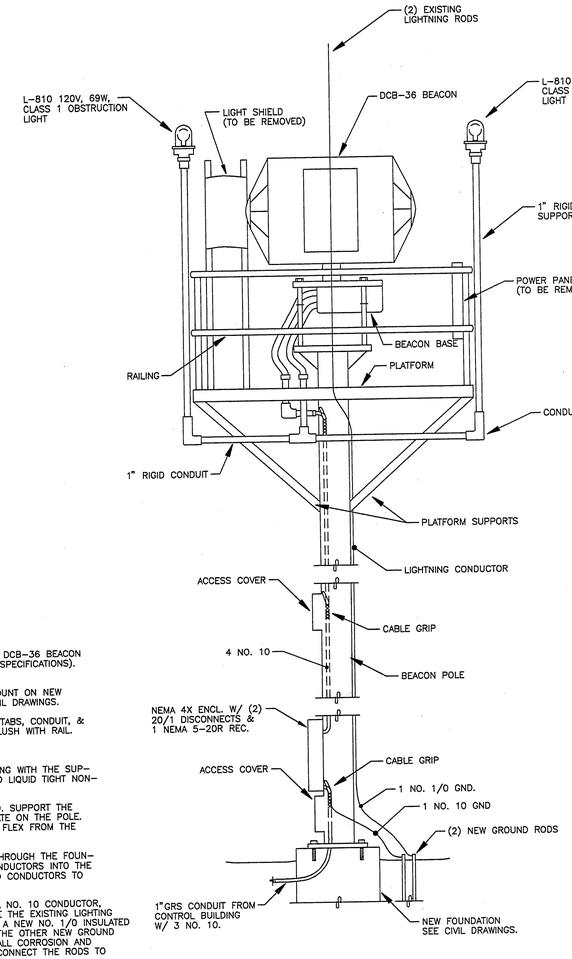


MAUSOLEUM OBSTRUCTION LIGHTS

NO SCALE

NOTES: OBSTRUCTION LIGHTS

1. REPLACE THE OBSTRUCTION LIGHTS, CONDUIT & CONDUCTORS WITH NEW AS SHOWN.
2. SECURE THE CONDUIT TO THE FENCE AT EVERY SUPPORT.
3. BURY THE 1" GRS CONDUIT FROM HH-20 TO NEMA 4X ENCLOSURE AT 6" BELOW GRADE OR AT 4" BELOW GRADE UNDER 4" OF CONCRETE EXTENDING 6" ON EACH SIDE OF CONDUIT. CONDUIT SHALL BE BURIED PER TRENCH DETAIL ON SHEET E6. WHERE INSTALLED OVER SOLID ROCK, COVER WITH 2" OF CONCRETE EXTENDING DOWN TO ROCK.



NOTES: BEACON

1. REMOVE AND REPLACE BEACON WITH A RECONDITIONED DCB-36 BEACON WITH A STATIONARY LAMP AND BELT DRIVE (REFER TO SPECIFICATIONS). REPLACE ALL MOUNTING HARDWARE.
2. REMOVE BEACON POLE, STRIP AND REPAINT, AND REMOUNT ON NEW FOUNDATION (SEE STRUCTURAL) WHERE SHOWN ON CIVIL DRAWINGS.
3. REMOVE EXISTING POWER PANEL INCLUDING MOUNTING TABS, CONDUIT, & WIRING. GRIND ANY REMAINING MOUNTING HARDWARE FLUSH WITH RAIL.
4. REMOVE LIGHT SHIELD AND ALL MOUNTING HARDWARE.
5. REMOVE AND REPLACE BOTH OBSTRUCTION LIGHTS ALONG WITH THE SUPPORTING CONDUIT, AND WIRING. USE GRS CONDUIT AND LIQUID TIGHT NON-METALLIC FLEX CONDUIT.
6. REPLACE THE WIRING INSIDE THE POLE WITH 4 NO. 10. SUPPORT THE CONDUCTORS WITH CABLE GRIPS AT EACH ACCESS PLATE ON THE POLE. ROUTE THE CONDUCTORS IN GRS, & NM LIQUID TIGHT FLEX FROM THE TOWER TO THE BEACON BASE.
7. STUB THE CONDUIT FROM THE GENERATOR BUILDING THROUGH THE FOUNDATION UP INTO THE POLE. ROUTE THE 3 NO. 10 CONDUCTORS INTO THE DISCONNECT ENCLOSURE. TERMINATE THE UNGROUNDED CONDUCTORS TO THE DISCONNECTS.
8. INSTALL TWO NEW GROUND RODS. CONNECT ONE TO A NO. 10 CONDUCTOR, AND ROUTE TO THE DISCONNECT ENCLOSURE. REPLACE THE EXISTING LIGHTING CABLE MOUNTED ON THE OUTSIDE OF THE POLE WITH A NEW NO. 1/0 INSULATED COPPER CONDUCTOR. CONNECT THIS CONDUCTOR TO THE OTHER NEW GROUND ROD. REMOVE THE EXISTING LIGHTNING RODS, CLEAN ALL CORROSION AND OXIDATION OFF THE RODS AND REMOUNT THE RODS. CONNECT THE RODS TO THE NEW LIGHTNING CABLE.
9. ROUTE 4 NO. 10 FROM THE DISCONNECT ENCLOSURE TO THE BEACON. TERMINATE 2 NO. 10 TO THE DISCONNECTS. SPLICE 1 NO. 10 TO THE NO. 10 NEUTRAL FROM THE CONTROL BUILDING. SPLICE 1 NO. 10 TO THE NO. 10 FROM THE GROUND ROD.

ROTATING BEACON & BEACON POLE DETAIL

NO SCALE

BY:	DATE:	DESCRIPTION OF CHANGE:

SCHEDULE OF REVISIONS

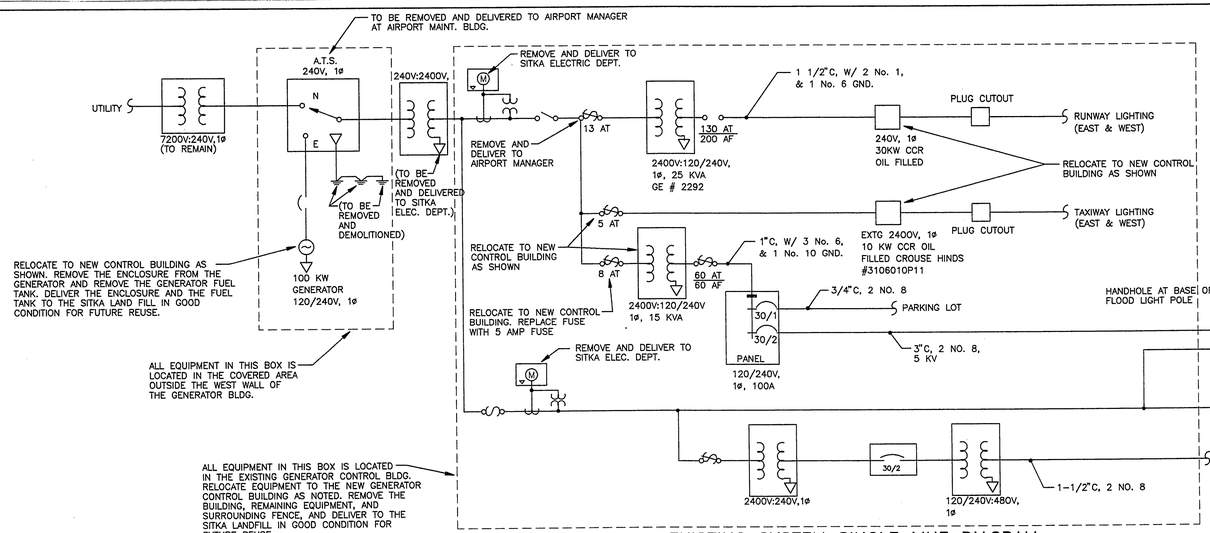
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & CONSTRUCTION

SITKA AIRPORT ELECTRICAL AND LIGHTING IMPROVEMENTS
SITKA ALASKA
BEACON, WINDSOCK, & OBSTRUCTION LTG. DETAILS

HAIGHT & McLAUGHLIN, INC.
CONSULTING ENGINEERS
418 Harris Street, Juneau, Alaska 99801 (907) 586-9788

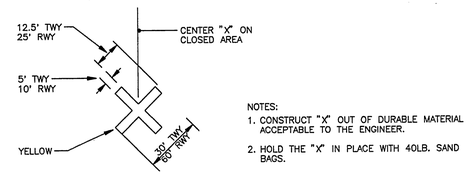
DESIGNED BY: MGM	DATE: MAY 1994	PROJECT No. 71457
DRAWN BY: JLC		E-7
CHECKED BY: BCH		SHEET 9 OF 20

ENGINEER'S SEAL
STATE OF ALASKA 49th
B.C. HAIGHT
EE 4856
REGISTERED PROFESSIONAL ENGINEER



EXISTING SYSTEM SINGLE LINE DIAGRAM

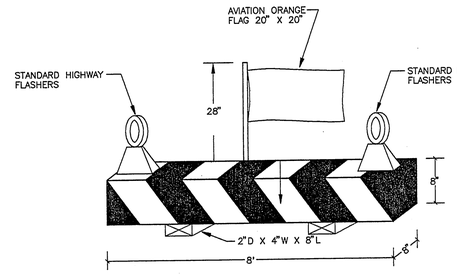
NO SCALE



NOTES:
1. CONSTRUCT "X" OUT OF DURABLE MATERIAL ACCEPTABLE TO THE ENGINEER.
2. HOLD THE "X" IN PLACE WITH 40LB. SAND BAGS.

DETAIL – CLOSURE "X" MARKING

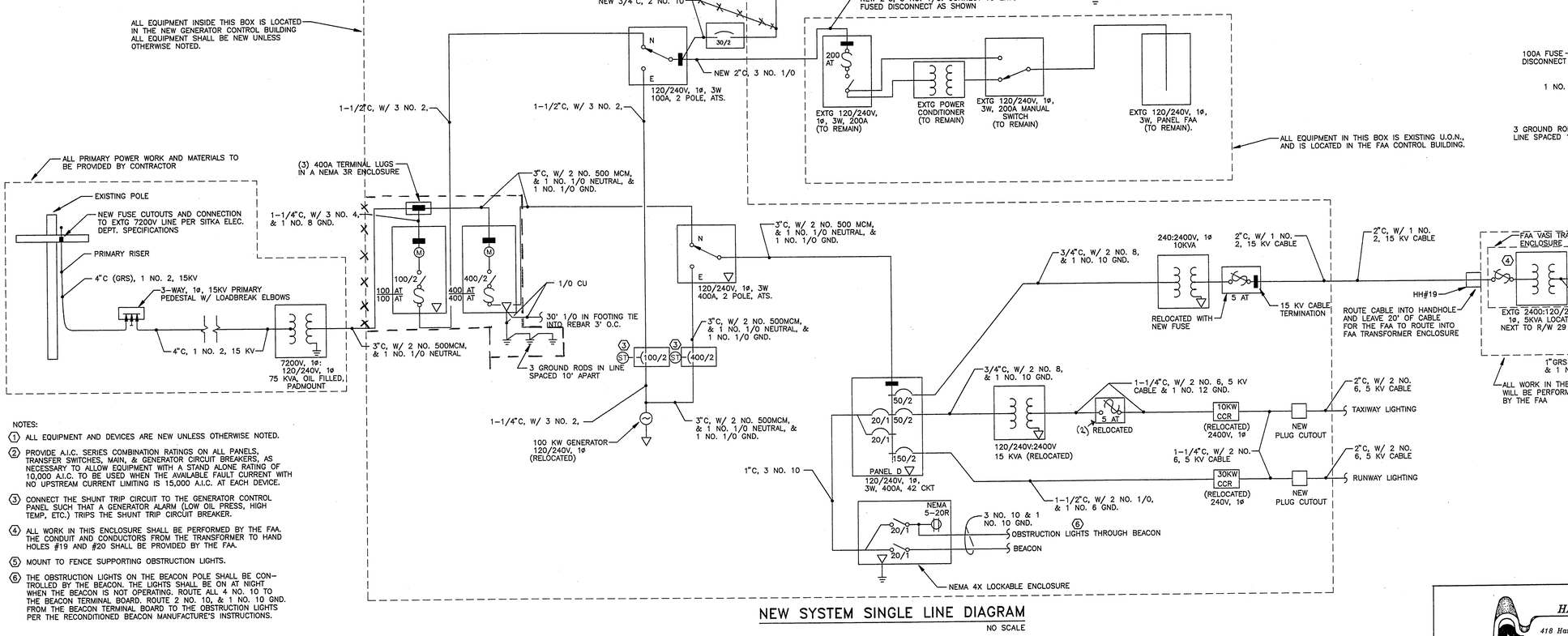
NO SCALE



NOTE:
BASE SHALL BE MADE FROM WOOD.

CONSTRUCTION BARRICADE

NO SCALE



NEW SYSTEM GROUNDING SCHEMATIC

NO SCALE

NEW SYSTEM SINGLE LINE DIAGRAM

NO SCALE

NOTES:

1. ALL EQUIPMENT AND DEVICES ARE NEW UNLESS OTHERWISE NOTED.
2. PROVIDE A.I.C. SERIES COMBINATION RATINGS ON ALL PANELS, TRANSFER SWITCHES, MAIN, & GENERATOR CIRCUIT BREAKERS, AS NECESSARY TO ALLOW EQUIPMENT WITH A STAND ALONE RATING OF 10,000 A.I.C. TO BE USED WHEN THE AVAILABLE FAULT CURRENT WITH NO UPSTREAM CURRENT LIMITING IS 15,000 A.I.C. AT EACH DEVICE.
3. CONNECT THE SHUNT TRIP CIRCUIT TO THE GENERATOR CONTROL PANEL SUCH THAT A GENERATOR ALARM (LOW OIL PRESS, HIGH TEMP, ETC.) TRIPS THE SHUNT TRIP CIRCUIT BREAKER.
4. ALL WORK IN THIS ENCLOSURE SHALL BE PERFORMED BY THE FAA. THE CONDUIT AND CONDUCTORS FROM THE TRANSFORMER TO HAND HOLES #19 AND #20 SHALL BE PROVIDED BY THE FAA.
5. MOUNT TO FENCE SUPPORTING OBSTRUCTION LIGHTS.
6. THE OBSTRUCTION LIGHTS ON THE BEACON POLE SHALL BE CONTROLLED BY THE BEACON. THE LIGHTS SHALL BE ON AT NIGHT WHEN THE BEACON IS NOT OPERATING. ROUTE ALL 4 NO. 10 TO THE BEACON TERMINAL BOARD. ROUTE 2 NO. 10, & 1 NO. 10 GND. FROM THE BEACON TERMINAL BOARD TO THE OBSTRUCTION LIGHTS PER THE RECONDITIONED BEACON MANUFACTURE'S INSTRUCTIONS.

BY:	DATE:	DESCRIPTION OF CHANGE:

RECORD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & CONSTRUCTION

SITKA AIRPORT ELECTRICAL AND LIGHTING IMPROVEMENTS

SITKA ALASKA

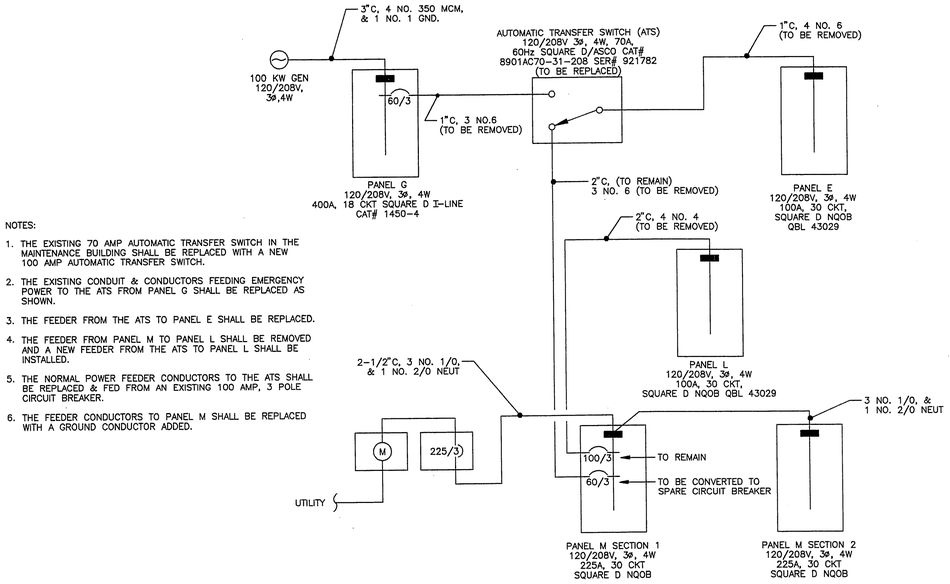
EXTG & NEW SYSTEM SINGLE LINE DIAGRAMS

HAIGHT & McLAUGHLIN, INC.
CONSULTING ENGINEERS
418 Harris Street, Juneau, Alaska 99801 (907) 586-9788

DESIGNED BY: MGM	DATE: MAY 1994	PROJECT No. 71457
DRAWN BY: JLC		E-8
CHECKED BY: BCH		SHEET 10 OF 20

ENGINEER'S SEAL

STATE OF ALASKA 49th
B.C. HAIGHT EE 4800
REGISTERED PROFESSIONAL ENGINEER

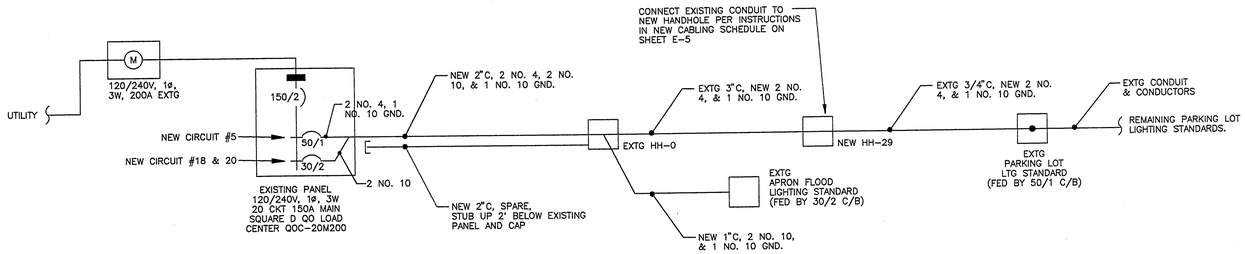


NOTES:

1. THE EXISTING 70 AMP AUTOMATIC TRANSFER SWITCH IN THE MAINTENANCE BUILDING SHALL BE REPLACED WITH A NEW 100 AMP AUTOMATIC TRANSFER SWITCH.
2. THE EXISTING CONDUIT & CONDUCTORS FEEDING EMERGENCY POWER TO THE ATS FROM PANEL G SHALL BE REPLACED AS SHOWN.
3. THE FEEDER FROM THE ATS TO PANEL E SHALL BE REPLACED.
4. THE FEEDER FROM PANEL M TO PANEL L SHALL BE REMOVED AND A NEW FEEDER FROM THE ATS TO PANEL L SHALL BE INSTALLED.
5. THE NORMAL POWER FEEDER CONDUCTORS TO THE ATS SHALL BE REPLACED & FED FROM AN EXISTING 100 AMP, 3 POLE CIRCUIT BREAKER.
6. THE FEEDER CONDUCTORS TO PANEL M SHALL BE REPLACED WITH A GROUND CONDUCTOR ADDED.

MAINTENANCE BUILDING – EXISTING SINGLE LINE

NO SCALE

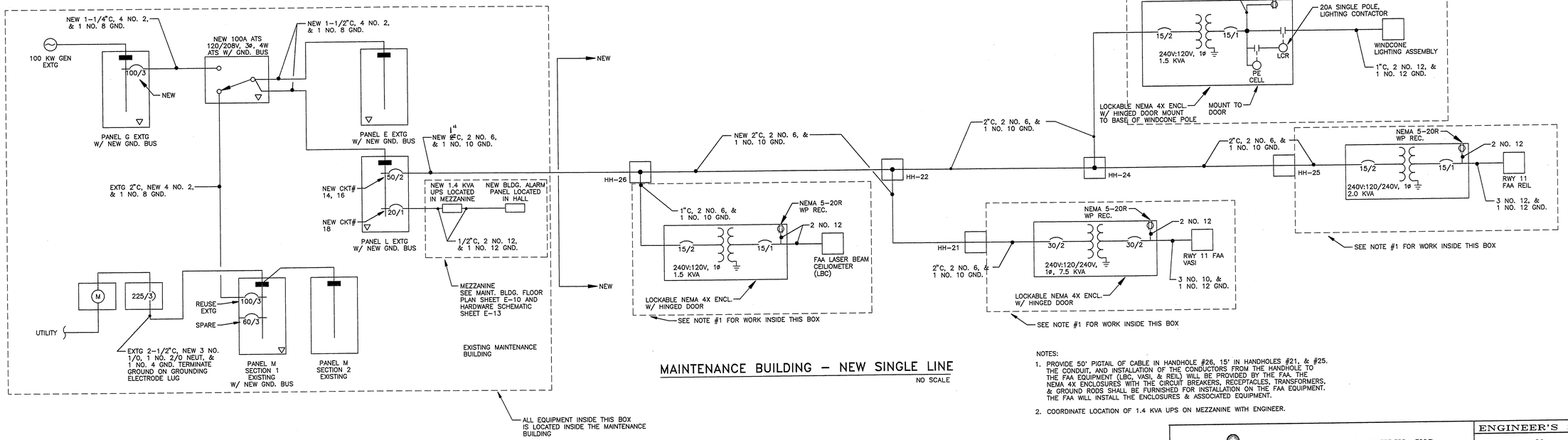


NOTES:

1. RELOCATE THE CONDUCTORS ON CIRCUIT #18 TO A DIFFERENT CIRCUIT BREAKER AS DIRECTED BY THE ENGINEER.
2. DO NOT SPLICE CONDUCTORS IN HANDHOLES. RUN CONDUCTORS CONTINUOUS FROM THE PANEL TO THE LIGHTING STANDARDS.

MAINTENANCE STORAGE BUILDING – NEW SINGLE LINE

NO SCALE



MAINTENANCE BUILDING – NEW SINGLE LINE

NO SCALE

NOTES:

1. PROVIDE 50' PIGTAIL OF CABLE IN HANDHOLE #26, 15' IN HANDHOLES #21, & #25. THE CONDUIT, AND INSTALLATION OF THE CONDUCTORS FROM THE HANDHOLE TO THE FAA EQUIPMENT (LBC, VASI, & REIL) WILL BE PROVIDED BY THE FAA. THE NEMA 4X ENCLOSURES WITH THE CIRCUIT BREAKERS, RECEPTACLES, TRANSFORMERS, & GROUND RODS SHALL BE FURNISHED FOR INSTALLATION ON THE FAA EQUIPMENT. THE FAA WILL INSTALL THE ENCLOSURES & ASSOCIATED EQUIPMENT.
2. COORDINATE LOCATION OF 1.4 KVA UPS ON MEZZANINE WITH ENGINEER.

BY:	DATE:	DESCRIPTION OF CHANGE:

RECORD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & CONSTRUCTION

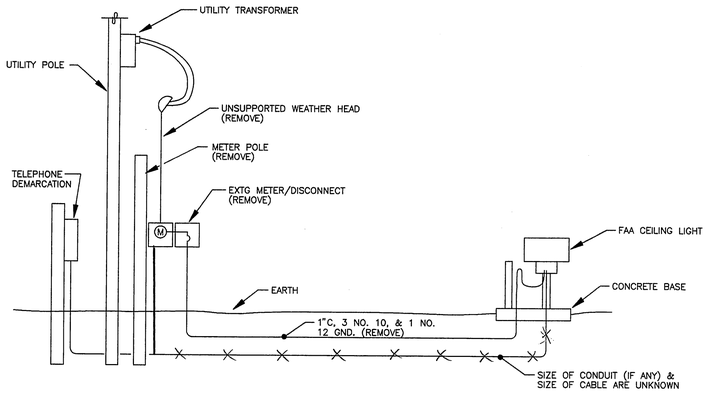
SITKA AIRPORT ELECTRICAL AND LIGHTING IMPROVEMENTS
SITKA ALASKA
MAINT. BLDG EXTG & NEW SINGLE LINE DIA.

HAIGHT & McLAUGHLIN, INC.
CONSULTING ENGINEERS
418 Harris Street, Juneau, Alaska 99801 (907) 586-9788

DESIGNED BY: MGM	DATE: MAY 1994	PROJECT No. 71457
DRAWN BY: JLC		E-9
CHECKED BY: BCH		SHEET 11 OF 20

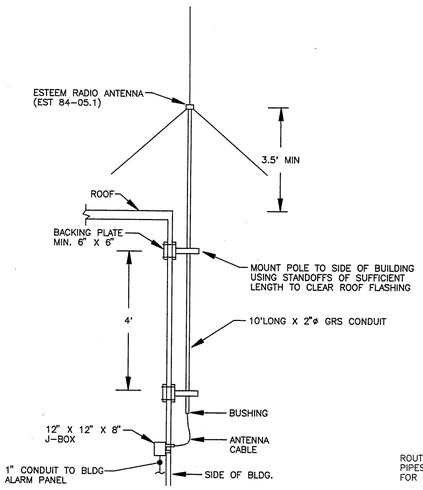
ENGINEER'S SEAL

STATE OF ALASKA 49th
B.C. HAIGHT EE 4800
REGISTERED PROFESSIONAL ENGINEER



CEILING LIGHT – EXISTING SERVICE

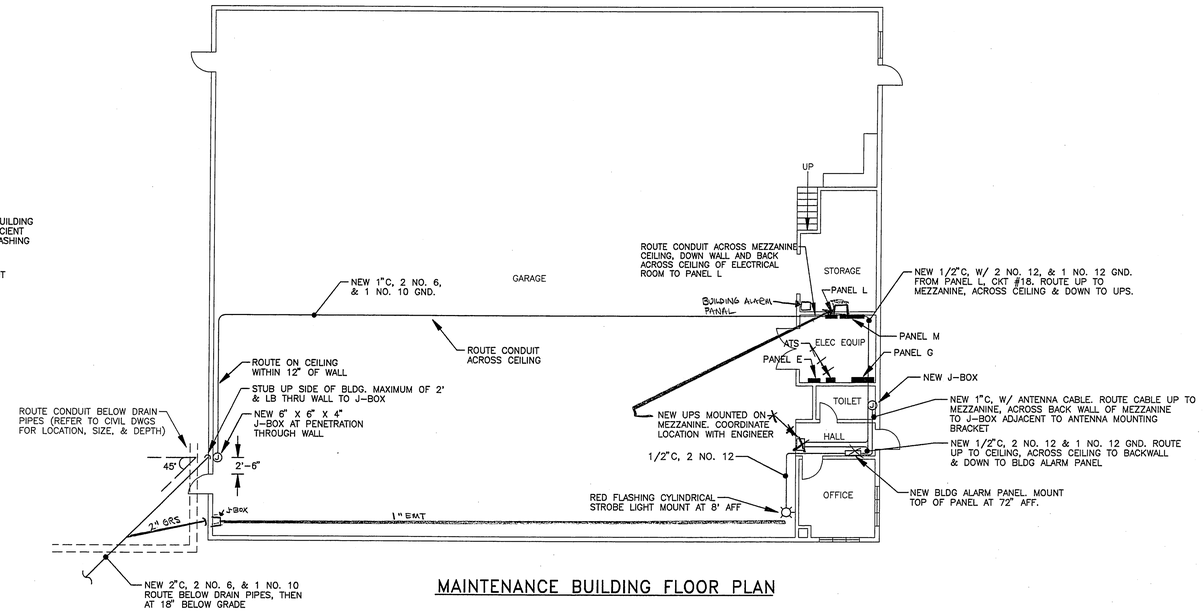
NO SCALE



MAINTENANCE BUILDING ANTENNA BRACKET

NOTE: NO SCALE

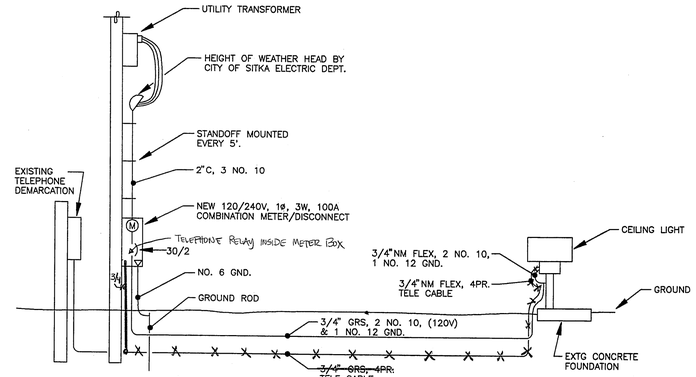
ALL MOUNTING HARDWARE SHALL BE GRS. THE STANDOFFS SHALL BE MADE OF C CHANNEL 0.2" THICK. WELDED TO 4 BOLT MOUNTING PLATE. PROVIDE BACKING PLATE & 1/4"ø MIN. BOLTS.



MAINTENANCE BUILDING FLOOR PLAN

0 10' 20' 30'

GRAPHIC SCALE



NOTE:

1. PROVIDE 120V SERVICE TO CEILING LIGHT. USE ONE POLE OF 30/2 CIRCUIT BREAKER.
2. INSTALL CONDUIT AS SHOWN. PROVIDE POWER CONDUCTORS AND TELE. CABLE AS SHOWN. DO NOT TERMINATE POWER CONDUCTORS & ~~TELE. CABLE IN CEILING LIGHT.~~ TERINATIONS SHALL BE PERFORMED BY FAA.

FAA CEILING LIGHT – NEW SERVICE

NO SCALE

BY:	DATE:	DESCRIPTION OF CHANGE:

RECORD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & CONSTRUCTION

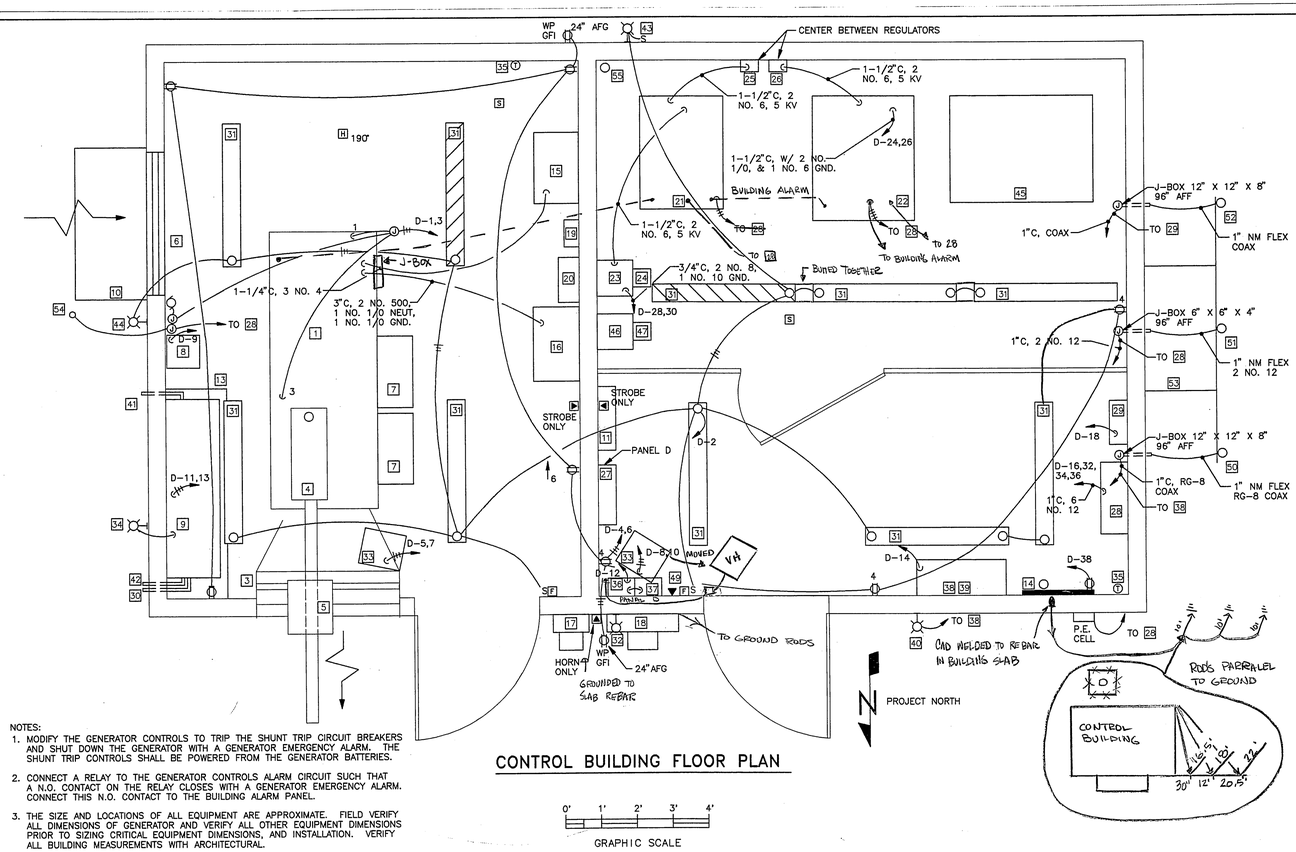
SITKA AIRPORT ELECRTICAL AND LIGHTING IMPROVEMENTS
SITKA ALASKA
SINGLE LINE DIAGRAMS, FLOOR PLANS

HAIGHT & McLAUGHLIN, INC.
CONSULTING ENGINEERS
418 Harris Street, Juneau, Alaska 99801 (907) 586-9788

DESIGNED BY: MGM	DATE: MAY 1994	PROJECT No. 71457
DRAWN BY: JLC		E-10
CHECKED BY:		SHEET 12 OF 20

ENGINEER'S SEAL

STATE OF ALASKA 49th B.C. HAIGHT EE 4800 REGISTERED PROFESSIONAL ENGINEER



CONTROL BUILDING FLOOR PLAN

0' 1' 2' 3' 4'

GRAPHIC SCALE

NOTES:

1. MODIFY THE GENERATOR CONTROLS TO TRIP THE SHUNT TRIP CIRCUIT BREAKERS AND SHUT DOWN THE GENERATOR WITH A GENERATOR EMERGENCY ALARM. THE SHUNT TRIP CONTROLS SHALL BE POWERED FROM THE GENERATOR BATTERIES.
2. CONNECT A RELAY TO THE GENERATOR CONTROLS ALARM CIRCUIT SUCH THAT A N.O. CONTACT ON THE RELAY CLOSES WITH A GENERATOR EMERGENCY ALARM. CONNECT THIS N.O. CONTACT TO THE BUILDING ALARM PANEL.
3. THE SIZE AND LOCATIONS OF ALL EQUIPMENT ARE APPROXIMATE. FIELD VERIFY ALL DIMENSIONS OF GENERATOR AND VERIFY ALL OTHER EQUIPMENT DIMENSIONS PRIOR TO SIZING CRITICAL EQUIPMENT DIMENSIONS, AND INSTALLATION. VERIFY ALL BUILDING MEASUREMENTS WITH ARCHITECTURAL.
4. ALL EQUIPMENT SHOWN SHALL BE NEW, UON.

PANEL BOARD "D" | FED FROM: 100 AMP AUTO TRANSFER SWITCH | 120/240 V | SINGLE Ø | 3W

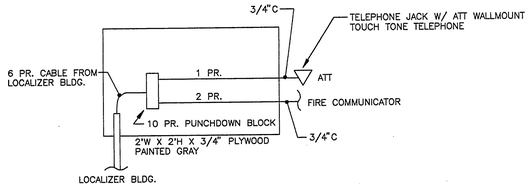
CKT	DESCRIPTIONS	CKT	DESCRIPTIONS
1	RUNWAY LIGHTING REGULATOR	2	
3	" " "	4	
5	" " " 150 AMP	6	
7	" " "	8	
9	GENERATOR ROOM HEATER	10	ELECTRICAL ROOM HEATER
11	" " " 20 AMP	12	" " " 20 AMP
13	TAXIWAY LIGHTING REGULATOR TRANSFORMER	14	1Ø&1 - 2Ø - TRANSFORMER
15	" " " 5 AMP	16	" " " 50 AMP
17	--	18	
19	--	20	
21	--	22	
23	--	24	
25	GENERATOR TANK HEATER	26	BUILDING LIGHTS
27	GENERATOR CONTROLS	28	GENERATOR ROOM OUTLETS
29	BATTERY CHARGERS (GENSET)	30	ELECTRICAL ROOM OUTLETS
31	DAYTANK CONTROLS	32	SPARE
33	DAYTANK PUMP	34	BUILDING ALARM/ BACK-UP POWERS
35	FIRE ALARM PANEL	36	LIGHTING CONTROL PANELS
37	TELEPHONE BOARD	38	POWER RADIO CONTROLLER
39	SPARE	40	BEACON
41	TAXIWAY / RUNWAY MONITOR PANELS	42	BEACON OBSTRUCTION LIGHTS
43	SPARE	44	CONTROL BUILDING OBSTRUCTION LIGHTS

PANEL D

CKT NO	WIRE NO/ SIZE	DESCRIPTION	BREAKER AMP/ POLE	KVA CKT	KVA AØ	KVA BØ	KVA CKT	BREAKER AMP/ POLE	DESCRIPTION	WIRE NO/ SIZE	CKT NO
			SIZE 400 AMP	VOLTS/PHASE 120/240V, 1Ø				MAIN LUGS ONLY	LOCATION ELECTRICAL ROOM	MOUNT SURFACE	
1	3/12	GENERATOR CONTROLS	20/1	0.2	1.2		1.0	20/1	LIGHTING	2/12	2
3		GENERATOR WATER HEATER	↓	1.8		2.6	0.8	↓	RECEPTACLES GENERATOR ROOM		4
5	3/12	UNIT HEATER GEN ROOM	20/2	1.7	2.5		0.8	↓	RECEPTACLES ELECTRICAL ROOM		6
7	---	---	---	1.7		3.4	1.7	20/2	UNIT HEATER ELEC. ROOM	3/12	8
9	2/12	BATTERY CHARGER	20/1	1.0	2.7		1.7	---	---	---	10
11	3/12	FUEL TANK CONTROLS	20/1	0.3		0.5	0.2	20/1	FACP, DIGITAL COMMUNICATOR	2/12	12
13	---	FUEL TANK PUMP	20/1	1.0	1.3		0.3		BUILDING ALARM PANEL UPS	2/12	14
15						0.2	0.2		LIGHTING CONTROL PANEL	2/12	16
17					0.3		0.3		PILOT CONTROLLED LIGHTING		18
19									SPARE		20
21								↓	SPARE		22
23						11.7	11.7	150/2	RUNWAY LIGHTING	2/1/0	24
25				11.7			11.7	---	CURRENT REGULATOR	---	26
27						3.2	3.2	50/2	TAXIWAY LIGHTING	2/8	28
29					3.2		3.2	---	CURRENT REGULATOR	---	30
31						1.0	1.0	20/1	BEACON	4/12	32
33					0.2		0.2	20/1	BEACON OBS. LIGHTS	---	34
35						0.2	0.2	20/1	CONTROL OBS. LIGHTS	---	36
37					0.2		0.2	20/1	TELE. TERM. BOARD	2/12	38
39									SPARE		40
41								↓	SPARE		42
TOTAL CONNECTED LOAD = 46.1 KVA / 192 AMPS				23.3	22.8						

EQUIPMENT SCHEDULE

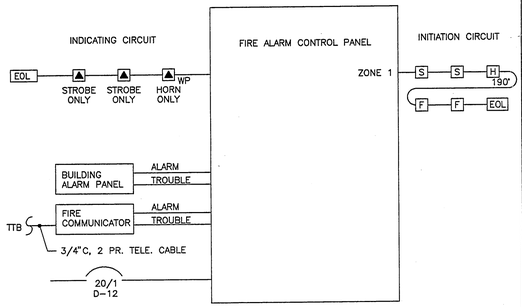
1. ONAN 100DYC GENSET RELOCATED FROM EXISTING CONTROL BUILDING.
2. MOUNT GENERATOR ON ISOLATION SPRINGS. USE KORFUND (OR APPROVED EQUAL) TYPE LK WITH RUBBER SOUND PAD RATED FOR 3,000 LBS MIN. STEADY WEIGHT. BOLT SPRINGS TO CONCRETE PAD.
3. GALVANIZED EXHAUST DAMPER AND LOUVER 54"H X 48"W W/ BIRD SCREEN, RUSKIN S2SS AND L811. MOUNT IN EXHAUST DUCT WITH DUCT MOUNTED TO RADIATOR. SEE EXHAUST DETAIL SHEET E12. THE LOUVER AND DAMPER SHALL BE GALVANIZED STEEL OR STAINLESS STEEL.
4. EXHAUST SILENCER.
5. 4" EXHAUST PIPE AND THIMBLE. SEE EXHAUST THIMBLE DETAIL SHEET E12.
6. GALVANIZED INTAKE COMBINATION LOUVER/DAMPER. 54"H X 48"W W/ BIRD SCREEN. RUSKIN LC6375D W/ TWO POSITION ELECTRIC DAMPER CONTROL MOTOR. (SIZE PER LOUVER MANUFACTURER) MOUNT ASSEMBLY W/ BOTTOM AT 24" AFF. DAMPER OPENS WITH GENERATOR VOLTAGE. PROVIDE WITH EXTENDED SILL. THE LOUVER/DAMPER SHALL BE GALVANIZED STEEL OR STAINLESS STEEL.
7. TWO 12V 8D BATTERIES DESIGNED FOR DIESEL ENGINES. MOUNT ON PAINTED STEEL BATTERY RACK 3" MIN. OFF FLOOR.
8. NEW AUTOMATIC BATTERY CHARGER. ONAN 305-0812-01, OR APPROVED EQUAL. MOUNT AT 60" AFF.
9. DAYTANK, SIMPLX SST WITH 60"W X 18"D, 150 GAL TANK, OR EQUAL WITH SIGHT GAUGE AND FITTINGS ON TANK ENDS. CONNECT LOW FUEL ALARM CONTACTS TO THE BUILDING ALARM CONTROL PANEL. PROVIDE 20 GAL/MIN. PUMP FOR PUMPING OUT TANK. PROVIDE WITH MANUAL FUEL SHUT OFF VALVE ON SUPPLY LINE.
10. INTAKE LOUVER SHROUD. SEE DETAIL SHEET E12.
11. SPARE FUSE CABINET. MOUNT TOP OF CABINET AT 72" AFF.
12. NOT USED
13. 3" CONCRETE HOUSE KEEPING PAD. (72"× 21").
14. 4'H X 2'W X 3/4"D PLYWOOD PAINTED GRAY TELEPHONE TERMINAL BOARD. MOUNT TOP OF BOARD AT 72" AFF. SURFACE MOUNT RECEPTACLE TO BOARD. PROVIDE WITH AN OPTICAL LINK ELECTRICAL ISOLATION DEVICE FOR THIS TELEPHONE CABLE. TUCON 828 OR APPROVED EQUAL.
15. AUTOMATIC TRANSFER SWITCH: 120/240V, 1ø, 3W, 100 AMP, 2 POLE. (FAA POWER) MOUNT TOP OF ENCLOSURE AT 72" AFF.
16. AUTOMATIC TRANSFER SWITCH: 120/240V, 1ø, 3W, 400 AMP, 2 POLE. (RWY/TWY LIGHTING POWER) MOUNT TOP OF ENCLOSURE AT 72" AFF.
17. COMBINATION METER BASE AND MAIN FUSE DISCONNECT: 120/240V, 1ø, 3W 100 AMP.
18. COMBINATION METER BASE AND MAIN FUSE DISCONNECT: 120/240V, 1ø, 3W 400 AMP.
19. ENCLOSED SHUNT TRIP CIRCUIT BREAKER IN NEMA 1 ENCLOSURE 100 AMP, 2 POLE. MOUNT TOP AT 60" AFF.
20. ENCLOSED SHUNT TRIP CIRCUIT BREAKER IN NEMA 1 ENCLOSURE 400 AMP, 2 POLE. MOUNT TOP AT 60" AFF.
21. L-828 TAXIWAY LIGHTING REGULATOR (10 KW). RELOCATED FROM EXISTING CONTROL BUILDING. UPGRADE REGULATOR TO AN L-829. (NEW MONITOR WITH ALARM RELAY CONTACTS). CONNECT MONITOR ALARM CONTACTS TO THE BUILDING ALARM CONTROL PANEL. MOUNT ON 4"H X 4"W X 30"L WOOD BLOCKING 12" ON CENTER.
22. L-829 RUNWAY LIGHTING REGULATOR (30 KW). RELOCATED FROM EXISTING CONTROL BUILDING. CONNECT MONITOR ALARM CONTACTS TO THE BUILDING ALARM CONTROL PANEL. MOUNT ON 4"H X 4"W X 36"L BLOCKING 12" ON CENTER.
23. 120/240V:2400V, 15 KVA TRANSFORMER. RELOCATED FROM EXISTING CONTROL BUILDING. MOUNT TOP AT 84" AFF.
24. FUSED DISCONNECT, 5 AMP, 2400V. RELOCATED FROM EXISTING CONTROL BUILDING. MOUNT 6" BELOW 15 KVA TRANSFORMER.
25. NEW PLUG CUTOUT.
26. NEW PLUG CUTOUT.
27. PANEL D, 120/240V, 1ø, 3W, 400 AMP, 42 CKT. MOUNT TOP OF PANEL AT 72" AFF.
28. L-841 LIGHTING CONTROL PANEL. MOUNT TOP OF PANEL AT 72" AFF. SEE CONTROL SCHEMATICS SHEET E14.
29. L-854 TYPE 1 RADIO CONTROLLER PER FAA AC 150/5345-49A. MOUNT TOP OF CONTROLLER AT 72" AFF.
30. DAY TANK 1-1/2" VENT WITH VENT CAP. LOCATED UNDER ROOF OVERHANG. SEE FUEL SYSTEM DETAIL SHEET E12.
31. CEILING MOUNTED PARABOLIC INDUSTRIAL FLUORESCENT LUMINAIRE, 2 LAMP (F40). PROVIDE WITH BODINE B50 EMERGENCY BALLAST WHERE LUMINAIRE IS SHOWN HATCHED.
32. DEEP SHIELD WALL MOUNT EXTERIOR LIGHT WITH P.E. CELL (50W METAL HALIDE) RUUD E 8405-D OR APPROVED EQUAL. MOUNT AT 84" AFF.
33. CEILING MOUNTED UNIT HEATER WITH BUILT IN THERMOSTAT 240V, 1ø, 3.0 KW. BERKO HUH-324-5A WITH HUH-TA-1 OR APPROVED EQUAL.
34. FUEL TANK HIGH LEVEL LIGHT: ALLEN BRADLEY 800H-PRTL16A. LIGHT MOUNTED ON HOFFMAN E-1PB533NN PUSHBUTTON BOX OR APPROVED EQUAL. MOUNT AT 7' AFG.
35. THERMOSTAT 20-80°F. BERKO WR80. CONNECT CONTACTS TO THE BUILDING ALARM CONTROL PANEL.
36. FIRE ALARM CONTROL PANEL. SIMPLEX 4001 OR APPROVED EQUAL. CONNECT ALARM AND TROUBLE CONTACTS TO THE BUILDING ALARM CONTROL PANEL. CONNECT AN ADDITIONAL SET OF ALARM & TROUBLE CONTACTS TO THE FIRE COMMUNICATOR LOCATED IN THE MAINTENANCE BUILDING. MOUNT TOP OF PANEL AT 72" AFF.
37. DIGITAL FIRE COMMUNICATOR. MOUNT TOP OF PANEL AT 72" AFF NEXT TO FIRE ALARM CONTROL PANEL.
38. BUILDING ALARM PANEL. MOUNT TOP AT 72" AFF.
39. 1.4 KW ON LINE UPS W/ VOLTAGE REGULATOR AND SURGE PROTECTION MOUNTED 6" OFF FLOOR BELOW BUILDING ALARM CONTROL PANEL.
40. BUILDING ALARM LIGHT. 35 WATT LOW PRESSURE SODIUM. LITHONIA TWH35LPS 120. MOUNT AT 50" AFF. PROVIDE ENGRAVED SIGN WITH 3" HIGH LETTERS "BUILDING ALARM LIGHT, CONTACT AIRPORT MANAGER OR FIRE DEPARTMENT IF LIGHT IS ON".
41. DAYTANK 2" FILL LINE. SEE FUEL SYSTEM DETAIL ON SHEET E12.
42. DAYTANK 1-1/4" PUMP OUT LINE WITH 10'LONG, 1-1/4"DIA. RUBBER HOSE AND FILL NOZZLE. SEE FUEL SYSTEM DETAIL ON SHEET E12.
43. PROJECTION CUTOFF WALL MOUNT EXTERIOR LIGHT W/ P.E. CELL (50W HPS) RUUD E4505-P. MOUNT AT 114" AFG.
44. DEEP SHIELD WALL MOUNT EXTERIOR LIGHT WITH P.E. CELL (50W MH) RUUD E8405-P OR EQUAL. MOUNT AT 102" AFG.
45. L-829 30KW. NEW SPARE LIGHTING REGULATOR. MOUNT ON 4"H X 4"W X 48" LONG BLOCKING 12" ON CENTER.
46. 10 KVA 240V:2400V DRY TRANSFORMER. MOUNT TOP AT 84" AFF.
47. FUSED DISCONNECT 5 AMP, 2400V. RELOCATED FROM EXISTING CONTROL BUILDING. MOUNT 6" BELOW 10 KVA TRANSFORMER.
48. NOT USED.
49. WALL MOUNT TOUCH TONE TELEPHONE WITH JACK. PROVIDE ATT COMMERCIAL/ BUSINESS GRADE OR EQUAL. MOUNT AT 80" AFF.
50. BLDG. ALARM PANEL ANTENNA (EST 84-05.1) MOUNTED ON 12' LONG X 2"ø GRS POLE. MOUNT 3' ABOVE ROOF. SEE ANTENNA BRACKET DETAILS SHEET E12.
51. L-810 OBSTRUCTION LIGHT, 120V, 69W, CLASS 1 MOUNTED ON 16' LONG X 2"ø GRS POLE. MOUNT WITHIN 6" OF TOP OF HIGHEST ANTENNA. SEE ANTENNA BRACKET DETAILS SHEET E12.
52. RADIO CONTROLLER ANTENNA MOUNTED ON 12' LONG X 2"ø GRS POLE. MOUNT 3' ABOVE ROOF. SEE ANTENNA BRACKET DETAILS SHEET E12.
53. UNISTRUT ANTENNA BRACKET. BRACKET SHALL BE MADE OF HOT DIPPED GALVANIZED MATERIALS. SEE ANTENNA BRACKET DETAILS SHEET E12.
54. L-810 OBSTRUCTION LIGHT, 120V, 69W, CLASS 1 MOUNTED ON 12" LONG X 1"ø GRS POLE MOUNTED TO FACIA.
55. SPARE 2"C FROM HAND HOLE 15 NEXT TO RUNWAY. STUB UP 12" AND CAP.



TELEPHONE TERMINAL BOARD SCHEMATIC

NO SCALE

NOTES: ENERGIZE 2 TELEPHONE LINES TO THE BUILDING.



FIRE ALARM RISER DIAGRAM

NO SCALE

NOTE:
CONNECT TWO PAIR OF THE 6 PAIR TELEPHONE CABLE TO TWO TELEPHONE LINES IN THE MAINTENANCE BUILDING. COIL THE OTHER 4 PAIR AS SPARES.

BY:	DATE:	DESCRIPTION OF CHANGE:

RECORD OF REVISIONS

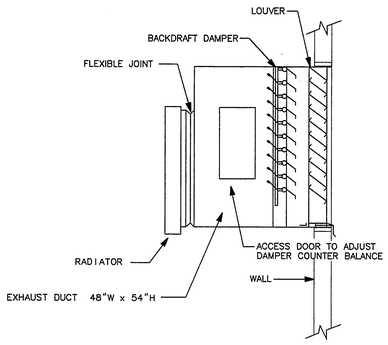
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & CONSTRUCTION

SITKA AIRPORT ELECTRICAL AND LIGHTING IMPROVEMENTS
SITKA ALASKA
CONTROL BUILDING FLOOR PLAN & EQUIP. SCHED.

HAIGHT & McLAUGHLIN, INC.
CONSULTING ENGINEERS
418 Harris Street, Juneau, Alaska 99801 (907) 586-9788

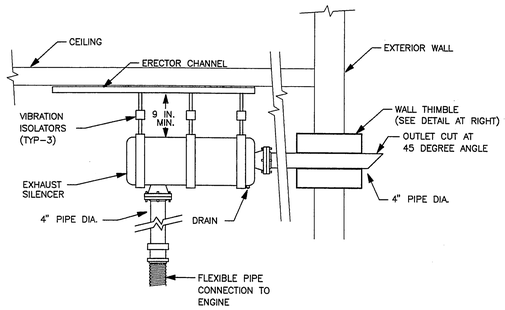
DESIGNED BY: MGM	DATE: MAY 1994	PROJECT No. 71457
DRAWN BY: JLC		E-11
CHECKED BY: BCH		SHEET 13 OF 20

ENGINEER'S SEAL
STATE OF ALASKA 49th B.C. HAIGHT EE 4800 REGISTERED PROFESSIONAL ENGINEER



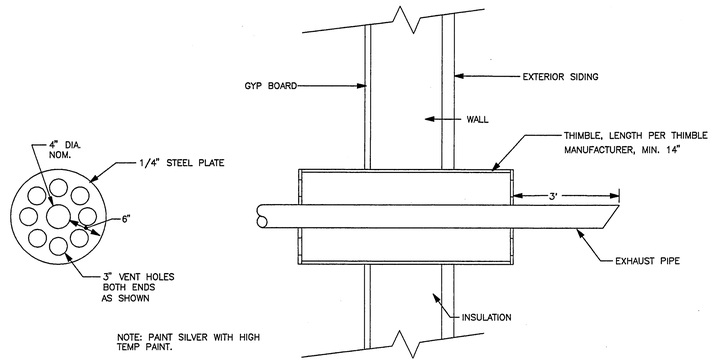
DETAIL – EXHAUST LOUVER

NO SCALE



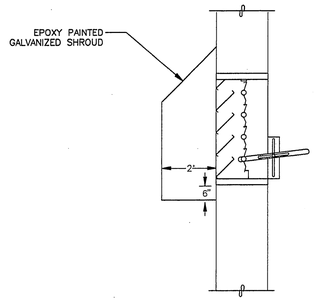
DETAIL – GENSET MUFFLER

NO SCALE



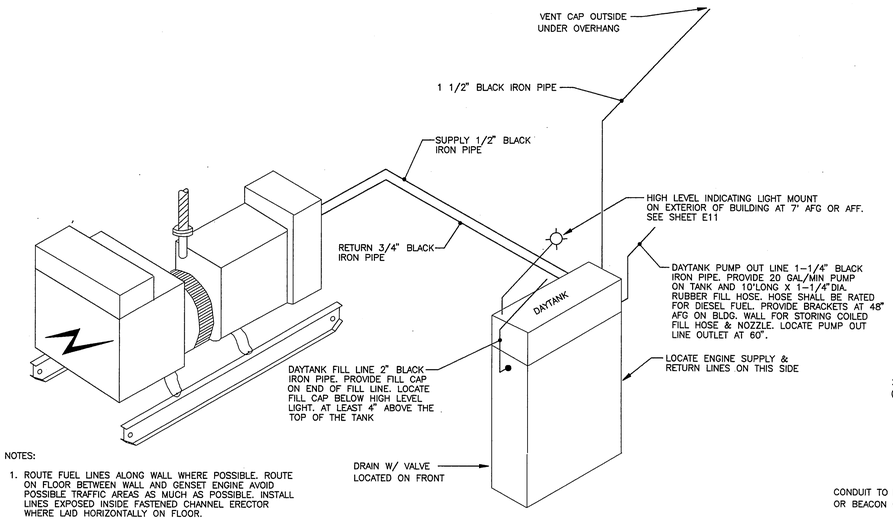
DETAIL – EXHAUST THIMBLE

NO SCALE



DETAIL – INTAKE LOUVER SHROUD

NO SCALE

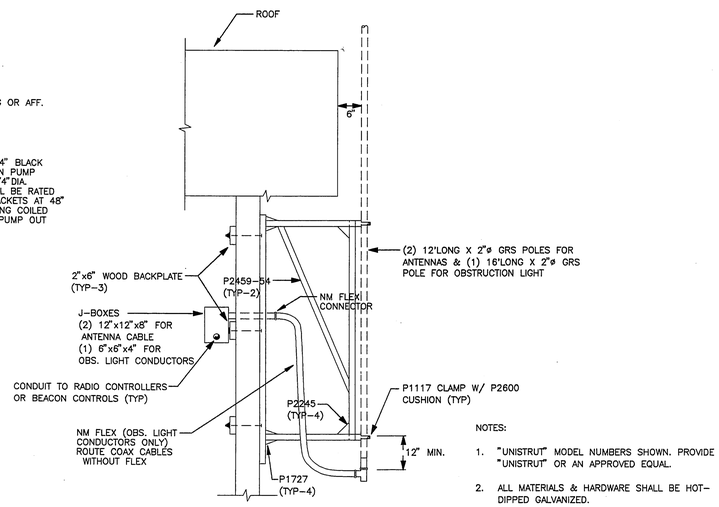


NOTES:

1. ROUTE FUEL LINES ALONG WALL WHERE POSSIBLE. ROUTE ON FLOOR BETWEEN WALL AND GENSET ENGINE AVOID POSSIBLE TRAFFIC AREAS AS MUCH AS POSSIBLE. INSTALL LINES EXPOSED INSIDE FASTENED CHANNEL ERECTOR WHERE LAID HORIZONTALLY ON FLOOR.
2. PAINT ALL BLACK IRON PIPE WITH RUST INHIBITING PAINT.
3. PROVIDE VALVES WITH FUSABLE LINKS ON THE SUPPLY AND RETURN LINES CONNECT THE FUEL LINES TO THE ENGINE WITH FLEXIBLE FUEL LINES LESS THAN 12" IN LENGTH.
4. PROVIDE MANUAL FUEL SHUT OFF VALVE ON SUPPLY LINE.
5. PROVIDE ELECTRIC 20 GPM PUMP FOR PUMPING OUT TANK INTO 1–1/4" PUMP OUT LINE. SEE SHEET E–11 FOR POWER CONNECTION.

DETAIL – FUEL SYSTEM

NO SCALE

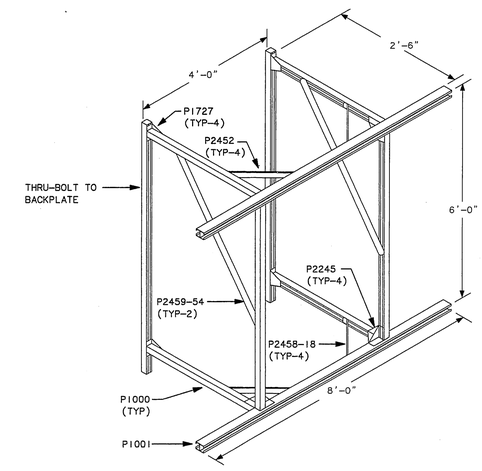


NOTES:

1. "UNISTRUT" MODEL NUMBERS SHOWN. PROVIDE "UNISTRUT" OR AN APPROVED EQUAL.
2. ALL MATERIALS & HARDWARE SHALL BE HOT–DIPPED GALVANIZED.

SIDE VIEW – NEW CONTROL BLDG. ANTENNA BRACKET

NO SCALE



ISOMETRIC – NEW CONTROL BLDG. ANTENNA BRACKET

NO SCALE

BY:	DATE:	DESCRIPTION OF CHANGE:

RECORD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & CONSTRUCTION

SITKA AIRPORT ELECTRICAL AND LIGHTING IMPROVEMENTS

SITKA ALASKA

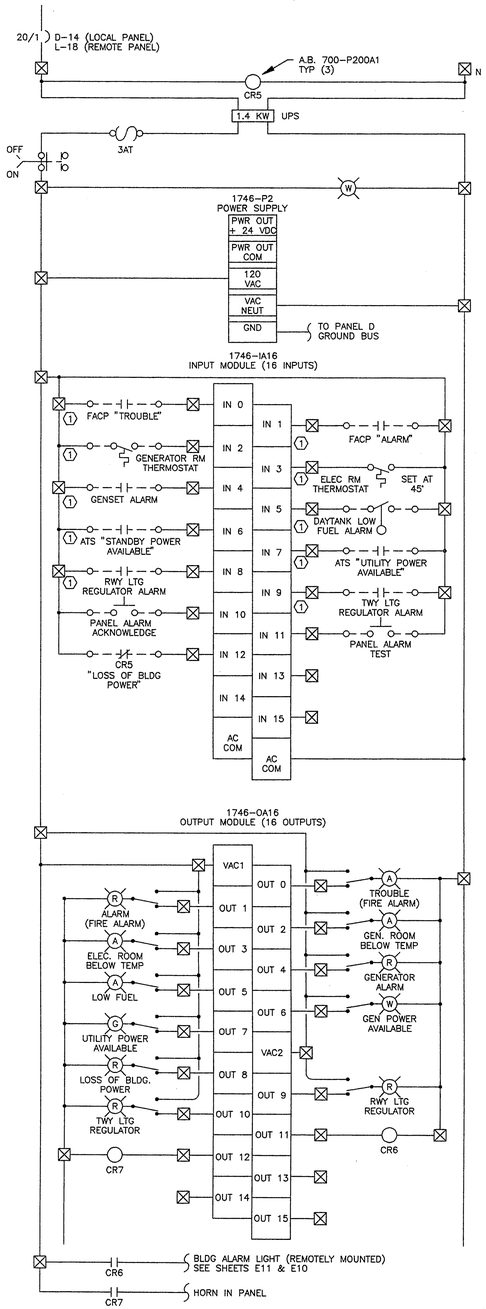
GENSET & ANTENNA BRACKET DETAILS

HAIGHT & McLAUGHLIN, INC.
CONSULTING ENGINEERS
418 Harris Street, Juneau, Alaska 99801 (907) 586–9788

DESIGNED BY: MGM	DATE: MAY 1994	PROJECT No. 71457
DRAWN BY: JLC		E–12
CHECKED BY: BCH		SHEET 14 OF 20

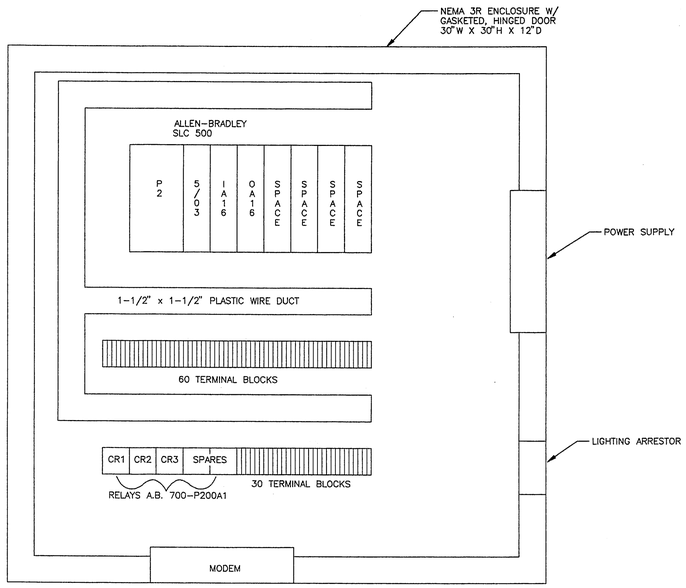
ENGINEER'S SEAL

STATE OF ALASKA
49th
B.C. HAIGHT
EE 4800
REGISTERED PROFESSIONAL ENGINEER



WIRING SCHEMATIC – LOCAL & REMOTE BUILDING ALARM PANEL

NO SCALE

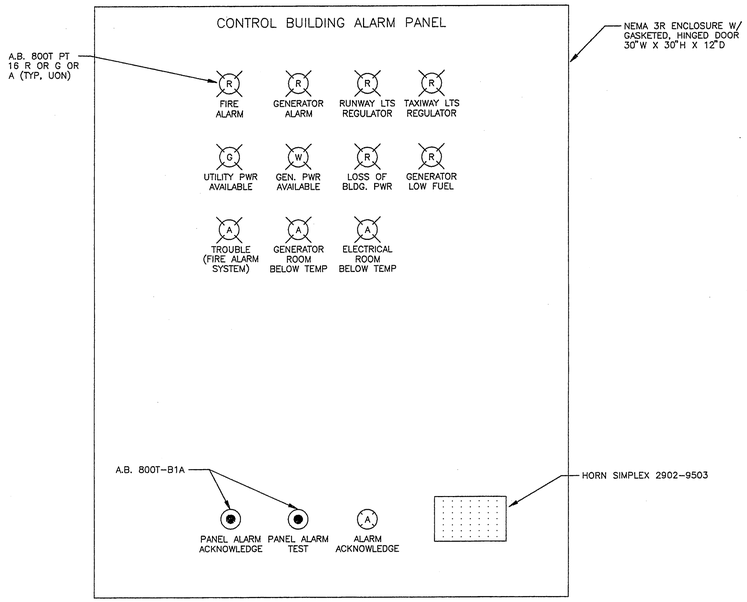


DETAIL – REMOTE & LOCAL BUILDING ALARM PANEL INTERIOR

SCALE: 3" = 1'-0"

NOTES:

1. MOUNT LOCAL BUILDING ALARM PANEL IN NEW GENERATOR CONTROL BUILDING. SEE FLOOR PLAN, SHEET E-11.
2. MOUNT REMOTE BUILDING ALARM PANEL IN MAINTENANCE BUILDING. SEE FLOOR PLAN, SHEET E-10.

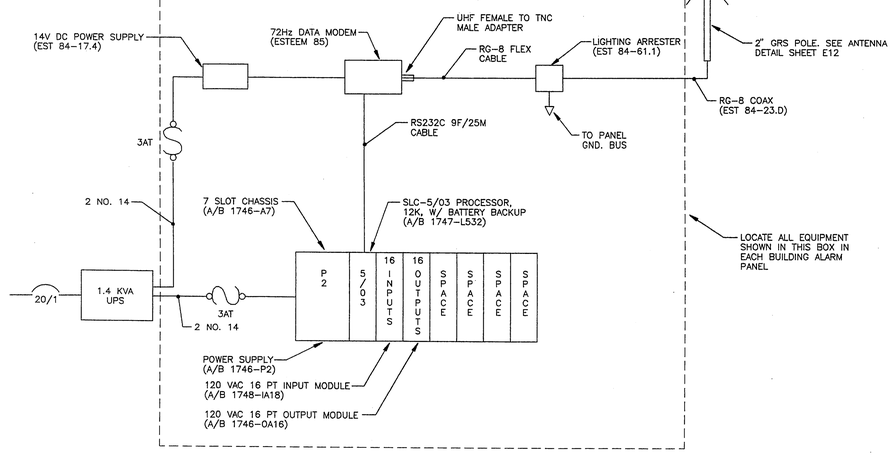


DETAIL – REMOTE & LOCAL BUILDING ALARM PANEL DOOR

SCALE: 3" = 1'-0"

NOTE:

(1) LOCAL PANEL ONLY



REMOTE & LOCAL BUILDING ALARM PANEL & UPS HARDWARE SCHEMATIC

NO SCALE

NOTE:

1. PROVIDE AN ALLEN BRADLEY (A/B) SLC-5 PLC AND ELECTRONIC SYSTEMS TECHNOLOGY RADIOS OR APPROVED EQUAL.

BUILDING ALARM PANEL LOGIC

IF ANY OF THE NORMALLY OPEN DRY CONTACT INPUTS CLOSE, OR NORMALLY CLOSED CONTACTS OPEN, THEN ILLUMINATE THE CORRESPONDING LIGHT IN BOTH ALARM PANELS, (AS SHOWN IN TABLE BELOW). SOUND THE HORN IN BOTH ALARM PANELS, AND ILLUMINATE THE BUILDING ALARM LIGHT FOR EACH PANEL.

DRY CONTACT	PANEL LIGHT
FACP "TROUBLE"	TROUBLE (FIRE ALARM SYSTEM)
FACP "ALARM"	FIRE ALARM
GENERATOR RM. THERMOSTAT	GENERATOR RM. BELOW TEMP
ELEC. RM. THERMOSTAT	ELEC. RM. BELOW TEMP
GENSET ALARM	GENERATOR ALARM
DAYTANK LOW FUEL ALARM	GENERATOR LOW FUEL
ATS "STANDBY POWER AVAILABLE"	GEN. POWER AVAILABLE
ATS "UTILITY POWER AVAILABLE"	UTILITY POWER AVAILABLE (DO NOT SOUND THE HORN OR ILLUMINATE THE BLDG ALARM LIGHT FOR THE PANEL IN THIS CASE).
RUNWAY LTG REGULATOR ALARM	RUNWAY LTS. REGULATOR
TAXIWAY LTG REGULATOR ALARM	TAXIWAY LTS. REGULATOR
LOSS OF BLDG. POWER	LOSS OF BLDG. POWER

ONCE ANY OF THE NORMALLY OPEN DRY CONTACT INPUTS CLOSE OR NORMALLY CLOSED CONTACTS OPEN, THE CORRESPONDING PANEL LIGHTS AND BUILDING ALARM LIGHTS SHALL STAY ILLUMINATED UNTIL THE INPUT CONTACTS RETURN TO THEIR NORMAL CONDITION AND THE ALARM ACKNOWLEGDE BUTTON IS PRESSED AT EITHER PANEL. PRESSING THE ALARM ACKNOWLEDGE BUTTON SHALL SILENCE THE HORN.

PRESSING THE PANEL ALARM TEST BUTTON SHALL SOUND THE HORN IN THE SAME PANEL & ILLUMINATE THE BUILDING ALARM LIGHT FOR THAT PANEL AS LONG AS THE BUTTON IS HELD IN.

IMPLEMENT THIS LOGIC WITH THE EQUIPMENT SHOWN IN THE BUILDING ALARM PANEL DETAILS AND SCHEMATICS SHOWN ON THIS SHEET.

PROVIDE ALL NECESSARY SOFTWARE, & PROGRAMMING NECESSARY TO PROVIDE FULLY OPERATIONAL CONTROL PANELS WITH THE FUNCTIONS DESCRIBED ABOVE.

BY:	DATE:	DESCRIPTION OF CHANGE:

RECORD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & CONSTRUCTION

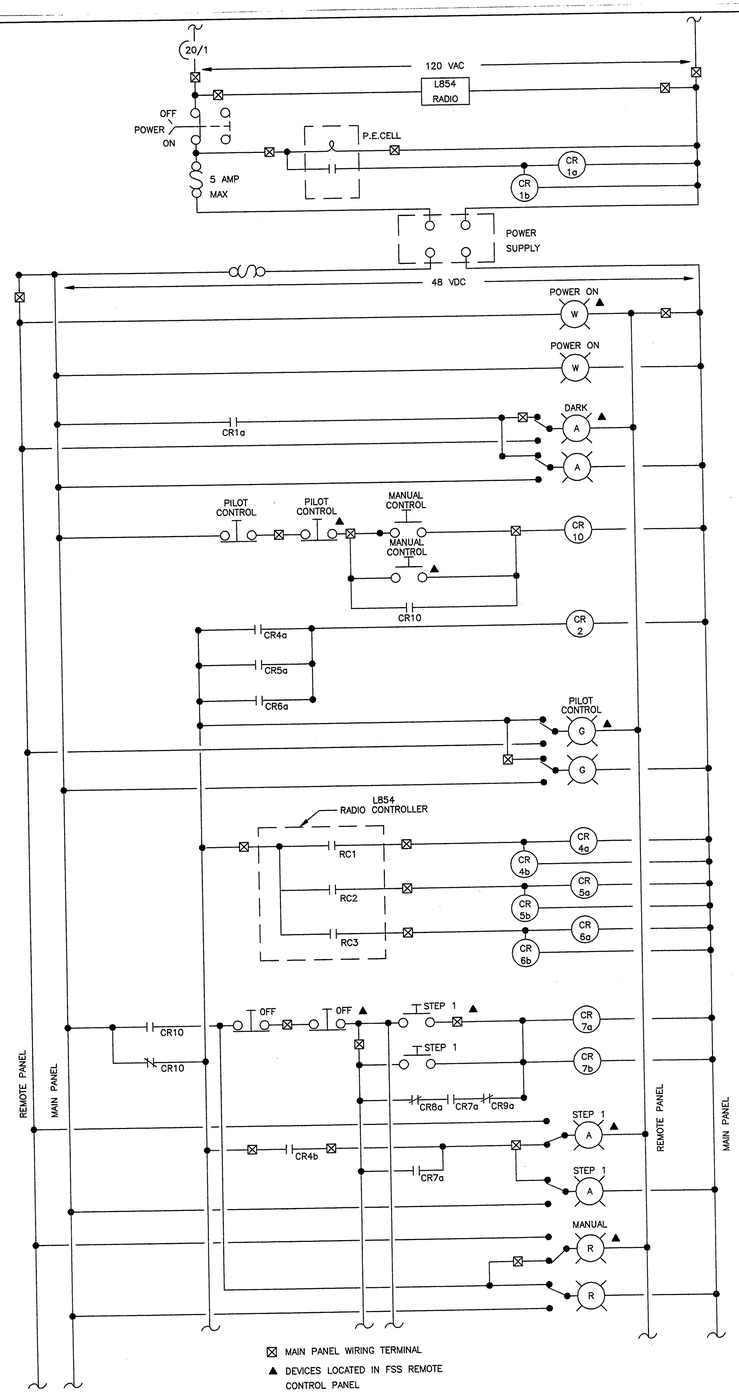
SITKA AIRPORT ELECTRICAL AND LIGHTING IMPROVEMENTS
SITKA ALASKA
BUILDING ALARM PANEL SCHEMATICS & DETAILS

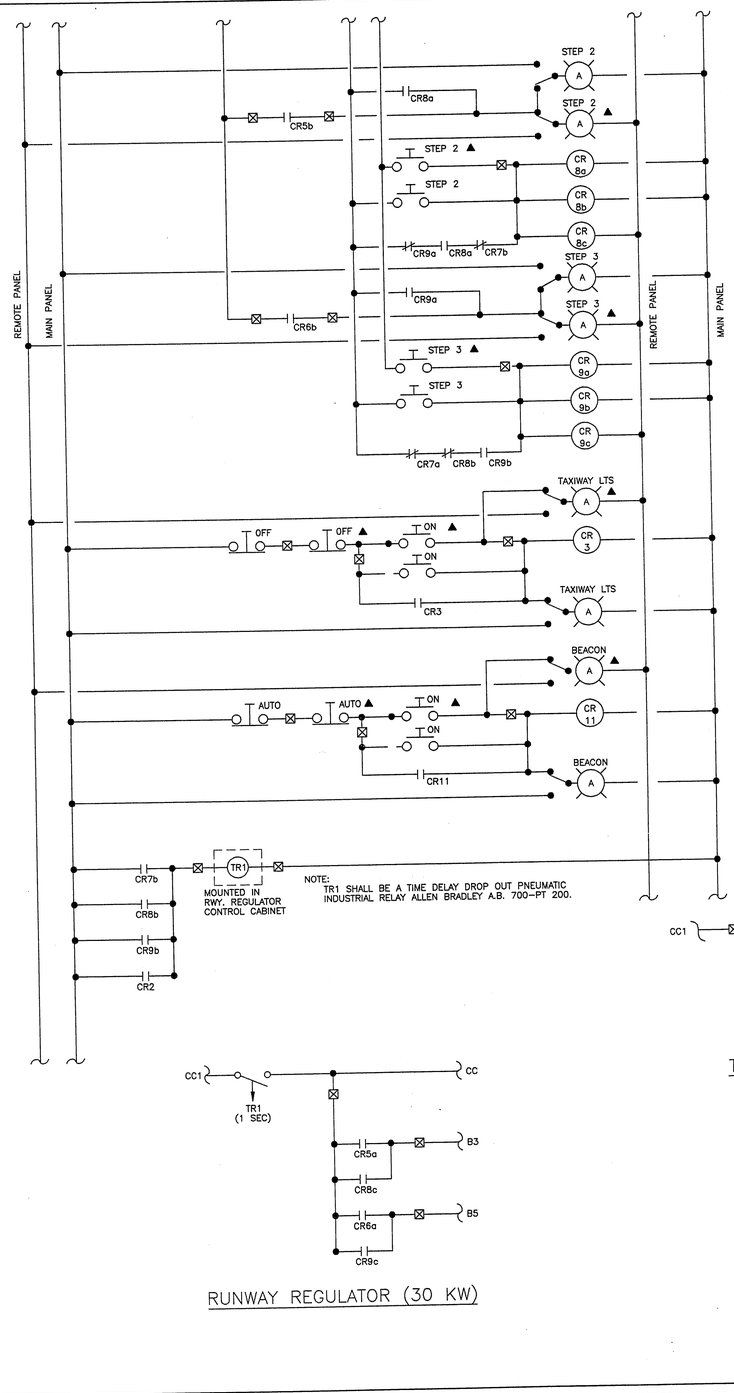
HAIGHT & McLAUGHLIN, INC.
CONSULTING ENGINEERS
418 Harris Street, Juneau, Alaska 99801 (907) 586-9788

DESIGNED BY: MGM	DATE: MAY 1994	PROJECT No. 71457
DRAWN BY: JLC		E-13
CHECKED BY: BCH		SHEET 15 OF 20

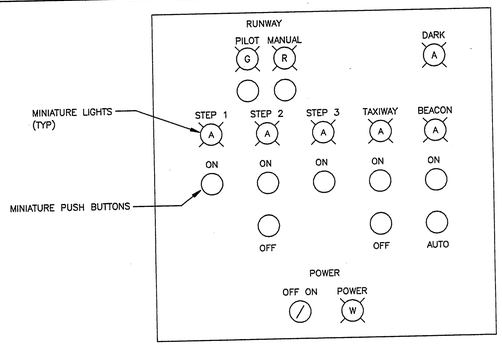
ENGINEER'S SEAL

STATE OF ALASKA 49th B.C. HAIGHT EE 4800 REGISTERED PROFESSIONAL ENGINEER

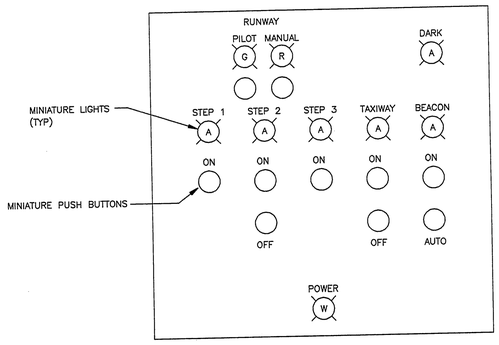




RUNWAY REGULATOR (30 KW)

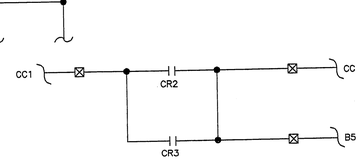


FRONT VIEW – MAIN LIGHTING CONTROL PANEL
(LOCATION IN CONTROL BUILDING)

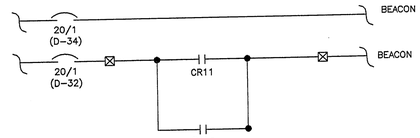


NOTES:
1. REMOVE EXISTING RUNWAY LIGHTING CONTROL PANEL. MODIFY CONSOLE AS NECESSARY TO FLUSH MOUNT NEW PANEL.

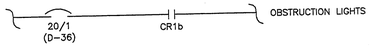
FRONT VIEW – REMOTE LIGHTING CONTROL PANEL
(LOCATION IN FSS CONTROL CONSOLE)



TAXIWAY REGULATOR



BEACON



CONTROL BUILDING OBS. LIGHTS CONTROLS

BY:	DATE:	DESCRIPTION OF CHANGE:

RECORD OF REVISIONS

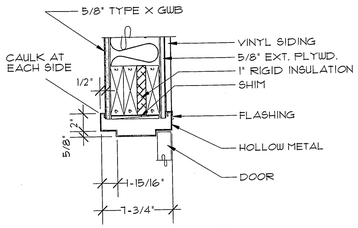
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & CONSTRUCTION

SITKA AIRPORT ELECTRICAL AND LIGHTING IMPROVEMENTS
SITKA ALASKA
LIGHTING CONTROLS & BUILDING ALARMS SCHEM.

HAIGHT & McLAUGHLIN, INC.
CONSULTING ENGINEERS
418 Harris Street, Juneau, Alaska 99801 (907) 586-9788

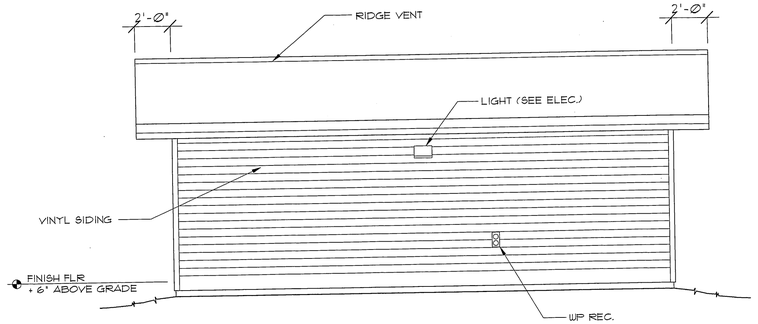
DESIGNED BY:	DATE:	PROJECT No.
MGM	MAY 1994	71457
DRAWN BY: JLC		E-14
CHECKED BY: BCH		SHEET 16 OF 20

ENGINEER'S SEAL
STATE OF ALASKA
49th
B.C. HAIGHT
EE 4800
REGISTERED PROFESSIONAL ENGINEER



Door Head/Jamb

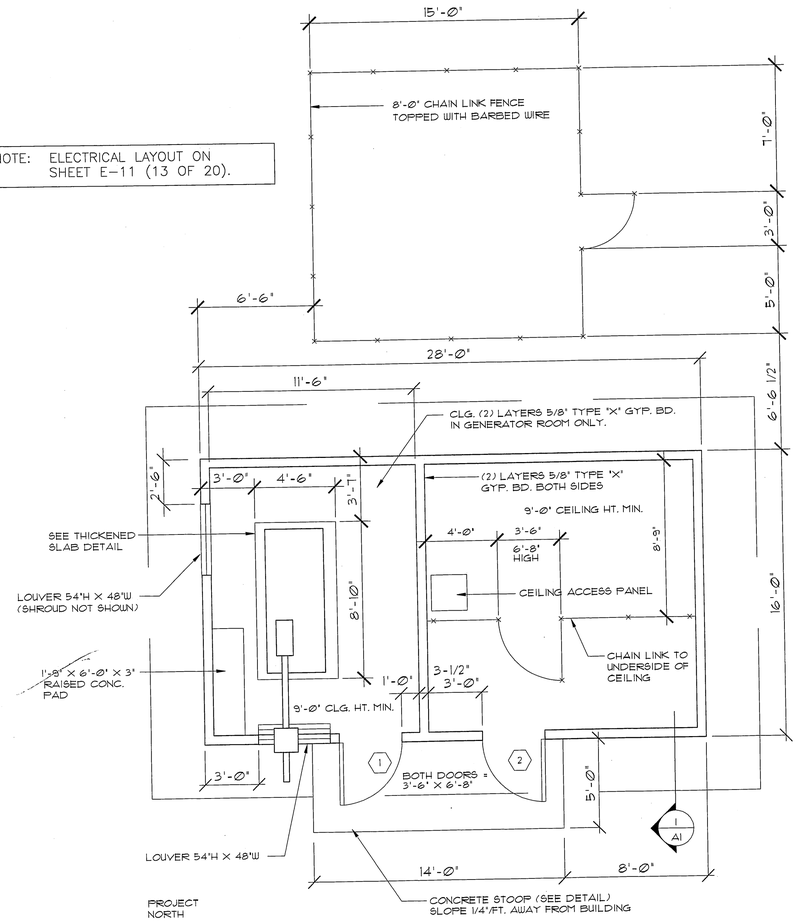
SCALE 1-1/2" = 1'-0"



South Elevation

SCALE 1/4" = 1'-0"

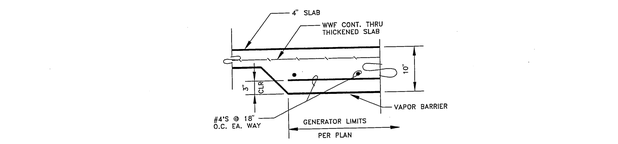
NOTE: ELECTRICAL LAYOUT ON SHEET E-11 (13 OF 20).



PROJECT NORTH

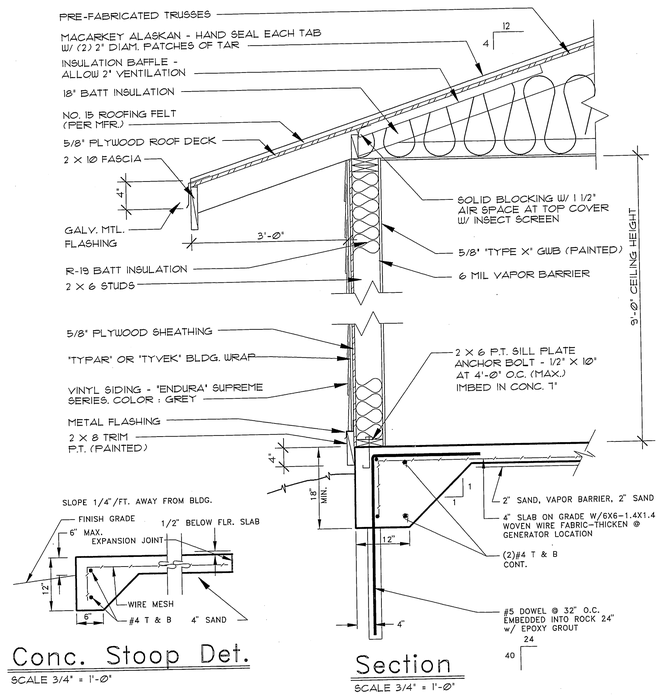
Control Building Plan

SCALE 1/4" = 1'-0"



Thickened Slab Detail

SCALE 3/4" = 1'-0"

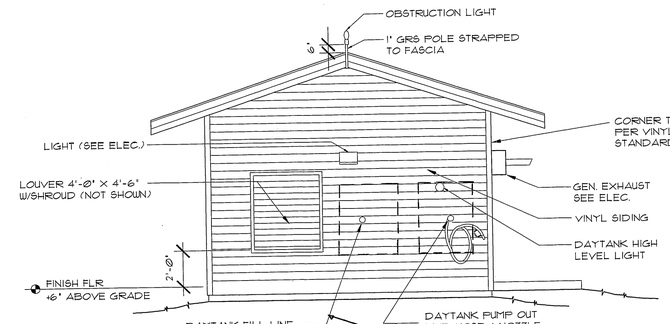


Conc. Stoop Det.

SCALE 3/4" = 1'-0"

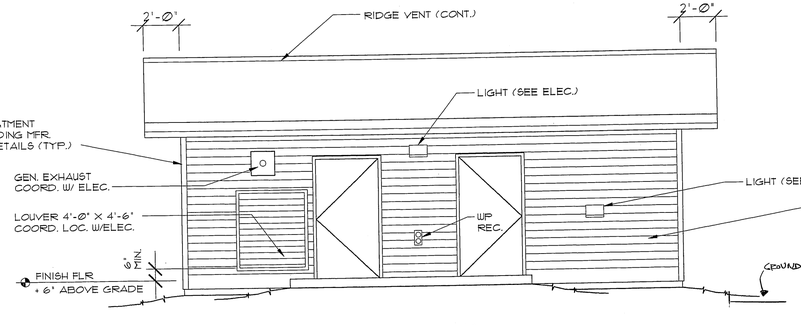
Section

SCALE 3/4" = 1'-0"



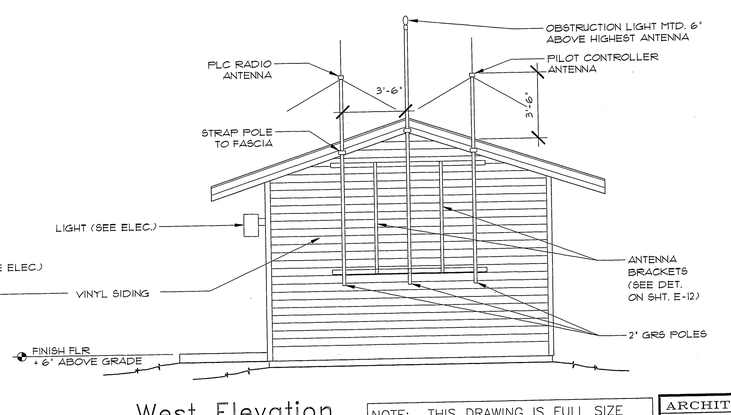
East Elevation

SCALE 1/4" = 1'-0"



North Elevation

SCALE 1/4" = 1'-0"



West Elevation

SCALE 1/4" = 1'-0"

NOTE: THIS DRAWING IS FULL SIZE WHEN PRINTED AT 24" X 36".

A. E. ROGERS
ARCHITECTS
P.O. Box 34401, Juneau, Alaska 99803
(907) 789-7589

ARCHITECT'S SEAL

STATE OF ALASKA
Alan E. Rogers
No. A-5582
REGISTERED PROFESSIONAL ARCHITECT

BY:	DATE:	DESCRIPTION OF CHANGE:

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & CONSTRUCTION

SITKA AIRPORT RUNWAY/TAXIWAY LIGHTING SYSTEM RENOVATION
SITKA ALASKA
NEW GENERATOR CONTROL BUILDING - PLANS

DESIGNED BY: AER	PROJECT No. 71457
DRAWN BY: AJC/AER (D:\PROJECTS\93019\A1.DWG)	DATE: MAY 27, 1994
CHECKED BY: AER	SHEET 17 OF 20

GENERAL NOTES

1. ALL CONSTRUCTION TO BE PER 1991 U.B.C. AND ALL APPLICABLE MECHANICAL, ELECTRIC, FIRE CODES (AS AMENDED BY THE CITY AND BOROUGH OF SITKA) AND THE SITKA ZONING/LAND USE REQUIREMENTS. THE CONSTRUCTION WILL BE IN ACCORDANCE WITH THE ADAAG (AMERICANS WITH DISABILITIES ACT - ACCESSIBILITY GUIDELINES).

2. ALL WALLS (EXTERIOR) ARE 2 X 6 (INTERIOR) 2 X 4 CONSTRUCTION UNLESS OTHERWISE NOTED. DIMENSIONS ARE TO THE FACE OF STUD UNLESS OTHERWISE INDICATED.

3. CONTRACTOR TO VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS BEFORE BEGINNING WORK AND TO NOTIFY THE ARCHITECT AS TO ANY DISCREPANCIES.

4. ALL LUMBER EXPOSED TO MOISTURE AND IN DIRECT CONTACT WITH MASONRY SHALL BE PRESSURE TREATED.

5. CONTRACTOR TO USE ACCEPTED INDUSTRY STANDARDS AND TO FOLLOW MANUFACTURERS' RECOMMENDED METHODS AND INSTALLATION INSTRUCTIONS.

4. DISPOSAL OF DEMOLITION MATERIAL (NOT TO BE SALVAGED) IS THE RESPONSIBILITY OF THE CONTRACTOR. BURNING ON THE PROJECT SITE IS NOT ALLOWED.

5. THESE PLANS ARE NOT VALID UNLESS APPROVED BY THE STATE FIRE MARSHAL'S OFFICE.

STRUCTURAL NOTES

1. SOILS DESIGN INFORMATION:

   A. SOIL DESIGN PRESSURE: 4,000 PSF PER CLASS 1 BEDROCK, UBC TABLE NO. 29-B.

   B. BOTTOM OF FOOTING SHALL BE AT LEAST 12 INCHES BELOW LOWEST ADJACENT FINISH GRADE.

2. PRIOR TO PLACING FORMS OR REINFORCED STEEL, DOT/PF STAFF SHALL VERIFY THAT SITE PREPARATION COMPLIES WITH THE ASSUMPTIONS MADE ABOVE.

3. BAR REINFORCEMENT SHALL CONFORM TO GRADE 60 OF ASTM 615, INCLUDING SUPPLEMENT S1.

4. LAPS AT BAR SPLICES AND CONCRETE CONSTRUCTION SHALL BE CLASS A OR IN ACCORDANCE WITH CHAPTER 12 OF ASI 318-83 (REVISED 1986), UNLESS OTHERWISE NOTED.

5. ALL REINFORCING STEEL SHALL BE SECURELY TIGHTENED IN POSITION PRIOR TO PLACING CONCRETE OR GROUT.

6. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185.

7. LAPS OF WELDED WIRE FABRIC AT SPLICES SHALL BE IN CONFORMANCE WITH ASI 318-83 (REVISED 1986), BUT NOT LESS THAN 14 INCHES.

8. REINFORCED CONCRETE SHALL CONFORM TO THE FOLLOWING:

   A. THE MINIMUM 28 DAY COMPRESSIVE STRENGTH SHALL BE 3,000 PSI.

   B. THE MINIMUM CEMENT CONTENT SHALL BE 6 SACKS PER CUBIC YARD OF CONCRETE.

   C. SLABS AND OTHER FLAT WORK SHALL BE AIR ENTRAINED, HAVE A MAXIMUM SLUMP OF 3 INCHES AND A MAXIMUM WATER CEMENT RATIO OF 0.35.

9. PORTLAND CEMENT SHALL CONFORM TO ASTM C150, TYPE I OR II.

10. AGGREGATES FOR NORMAL WEIGHT CONCRETE SHALL CONFORM TO ASTM C33.

11. CONCRETE WORK SHALL CONFORM TO ALL REQUIREMENTS OF ASI 301, 'SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDING', EXCEPT AS MODIFIED BY THESE NOTES.

12. ADMIXTURES MAY BE USED WITH PRIOR APPROVAL OF THE ENGINEER OR ARCHITECT. ADMIXTURE SHALL COMPLY WITH ASTM A494. ADMIXTURES USED TO INCREASE THE WORKABILITY OF THE CONCRETE SHALL NOT BE CONSIDERED TO REDUCE THE SPECIFIED MINIMUM CEMENT CONTENT. ADMIXTURES CONTAINING CHLORIDES SHALL NOT BE USED.

13. READY MIXED CONCRETE SHALL BE MIXED AND DELIVERED IN ACCORDANCE WITH ASTM C94.

14. MINIMUM CONCRETE COVER FOR REINFORCING STEEL SHALL BE AS FOLLOWS, UNLESS OTHERWISE NOTED:

LOCATION	MIN. COVER, INCHES
CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH	3
FORM SURFACE EXPOSED TO EARTH OR WEATHER	1-1/2
CONCRETE SURFACES NOT EXPOSED TO EARTH OR WEATHER	3/4

15. LOCAL DESIGN CRITERIA:

BASIC WIND SPEED = 100 MPH
SEISMIC ZONE = 3
SNOW LOAD = 40 PSF
FROST DEPTH = 18 INCHES

CODE ANALYSIS (1991 UBC)

OCCUPANCY:	B-4 (SWITCHGEAR & GENERATOR)
CONSTRUCTION TYPE:	V-N
EXTERIOR WALLS:	1 HOUR LESS THAN 5'-0"
OPENINGS IN WALLS:	NOT PERMITTED LESS THAN 5'-0"
ALLOWABLE AREA:	12,000 S.F.
ACTUAL AREA:	448 S.F.
MAXIMUM HEIGHT:	40 FEET
ACTUAL HEIGHT:	13'-0" +/-
MAXIMUM STORIES:	2
ACTUAL STORIES:	1

B-4 ROOF FRAMING: UBC SEC 707(b), SPECIAL PROVISIONS, FIRE PROTECTION OF THE UNDERSIDE OF THE ROOF FRAMING MAY BE OMITTED.

OCCUPANT LOAD: (PER UBC TABLE 33-A), MECHANICAL EQUIPMENT ROOM, OCCUPANT LOAD FACTOR 1/300 S.F. = 2 OCCUPANTS
H.C. ACCESSIBILITY: NO, (PER UBC TABLE 33-A)
EXITS REQUIRED: 1
SPRINKLER REQUIRED: REQUIRED UNLESS APPROVAL FOR DELETION BY THE SITKA BUILDING OFFICIAL PER UBC SEC. 3804(b), PERMISSIBLE SPRINKLER OMISSIONS.

SPECIFICATIONS

1. EXTERIOR METAL DOORS: INSULATED, ANSI/SDI-100, GRADE III EXTRA HEAVY DUTY, MODEL 4, MINIMUM 16 GA. GALVANIZED STEEL FACES IN COMPLIANCE WITH SDI-112.

2. HOLLOW METAL FRAMES: ANSI/SDI-100, MITERED OR COPED CORNERS, WELDED CONSTRUCTION, EXTERIOR FRAMES = 16 GA. GALVANIZED STEEL.

3. DOOR HARDWARE: (PER DOOR)

   (3) BUTTS, "HAGER" BB1199
   (1) LOCKSET, "BEST", 93K7AB16D, 626 FINISH
   (1) CLOSER, "LCN", 4115H-CUSH
   WEATHERSTRIPPING

4. ROOFING: APPLY AN ADDITIONAL ~~GRADE~~ ICE & WATER SHIELD ROOFING FELT CEMENTED OVER ROOF TO PREVENT ICE DAMMING. APPLY AT LOWER 5'-0" OF ROOF. 4-1/2" EXPOSURE OVERALL.

5. PAINTING:

   EXTERIOR WOOD TRIM (SOLID COLOR LATEX EMULSION BASE STAIN) = "GLIDDEN" Y-9400 ENDURANCE LATEX STAIN.

   INTERIOR WALLS: PRIMER = "GLIDDEN" 5013 PVA PRIMER LATEX-BASED FLAT PAINT = "GLIDDEN" 3400 SPRED SATIN LATEX WALL PAINT.

   GALVANIZED METAL = SEE ELECTRICAL SPECIFICATIONS.

6. GALVANIZED STEEL FENCING AND GATES:

   COMPLY WITH ASTM F 573 AND THE CHAIN LINK FENCE MANUFACTURERS INSTITUTE (CLFMI) PRODUCT MANUAL. FURNISH ONE-PIECE FABRIC WIDTHS. 2 INCH MESH, 9-GAGE (0.148 INCH DIAMETER) WIRE (INCL. ZINC COATING). GALV. STEEL FINISH = ASTM A 392, CLASS 2, WITH MINIMUM 2.0 OZ. ZINC PER SQ. FT. OF UNCOATED WIRE SURFACE. FRAMEWORK = TYPE I PIPE, STRENGTH REQUIREMENTS FOR POSTS AND RAILS CONFORMING TO ASTM F 669. TYPE I PIPE, HOT-DIPPED GALV. STEEL PIPE CONFORMING TO ASTM F 1083, PLAIN ENDS, STANDARD WEIGHT (SCHEDULE 40). END, CORNER AND PULL POSTS = 2.875 INCH OD TYPE I OR II STEEL PIPE, 2.5 INCH SQUARE STEEL TUBING WEIGHING 5.10 LBS PER LIN. FT. LINE OR INTERMEDIATE POSTS = 2.375 INCH OD TYPE I OR II STEEL PIPE, 2.25 INCH BY 1.70 INCH C SECTION WEIGHING 2.7 LBS PER LIN. FT. SWING GATES = COMPLY WITH ASTM F 900, PERIMETER FRAMES OF MIN. 1.90 INCH OD TYPE I OR II STEEL PIPE OR 2.0 INCH SQUARE STEEL TUBING, NON-LIFT-OFF TYPE HINGES, OFFSET TO PERMIT 180 DEGREE GATE OPENING, LOCKING LATCHSET KEYED TO NEW BLDG. MASTER SYSTEM ("BEST"). BARBED WIRE (EXTERIOR FENCING) = TWO STRANDS, 12-1/2 GA. STEEL WIRE WITH 14 GA. 4-POINT BARBS SPACED NOT MORE THAN 5 INCHES O.C.± METALLIC COATED FINISH TO MATCH FABRIC. SUPPORTING ARMS (SINGLE 45 DEGREE ARM) CONFORMING TO ASTM F 626, ATTACHING 3 ROWS OF BARBED WIRE TO EACH ARM. ARMS MUST BE CAPABLE OF WITHSTANDING 250 LBS DOWNWARD PULL AT OUTERMOST END.

   EXCAVATION: DRILL OR HAND-EXCAVATE (USING POST-HOLE DIGGER) HOLES FOR POSTS TO MIN. DIAMETERS RECOMMENDED BY FENCE MFR. BUT NOT LESS THAN 4 TIMES LARGEST CROSS-SECTION OF POST. EXCAVATE HOLE DEPTHS APPROXIMATELY 3 INCHES LOWER THAN POST BOTTOM, WITH BOTTOM OF POSTS SET NOT LESS THAN 36 INCHES BELOW FINISH GRADE SURFACE. PROTECT PORTION OF POSTS ABOVE GROUND FROM CONCRETE SPLATTER. PLACE CONCRETE AROUND POSTS AND VIBRATE OR TAMP FOR CONSOLIDATION. CHECK EACH POST FOR VERTICAL AND TOP ALIGNMENT, AND HOLD IN POSITION DURING PLACEMENT AND FINISHING OPERATIONS. EXTEND CONCRETE FOOTING 2 INCHES ABOVE GRADE AND TROWEL TO A CROWN TO SHED WATER.

NOTE: PRODUCT NAMES ARE FOR PERFORMANCE STANDARDS ONLY AND ARE NOT MEANT TO BE PROPRIETARY. SUBMIT THE SPECIFIED PRODUCT OR AN APPROVED EQUAL.

A. E. ROGERS
ARCHITECTS
P.O. Box 34401, Juneau, Alaska 99803
(907) 789-7589

BY:	DATE:	DESCRIPTION OF CHANGE:

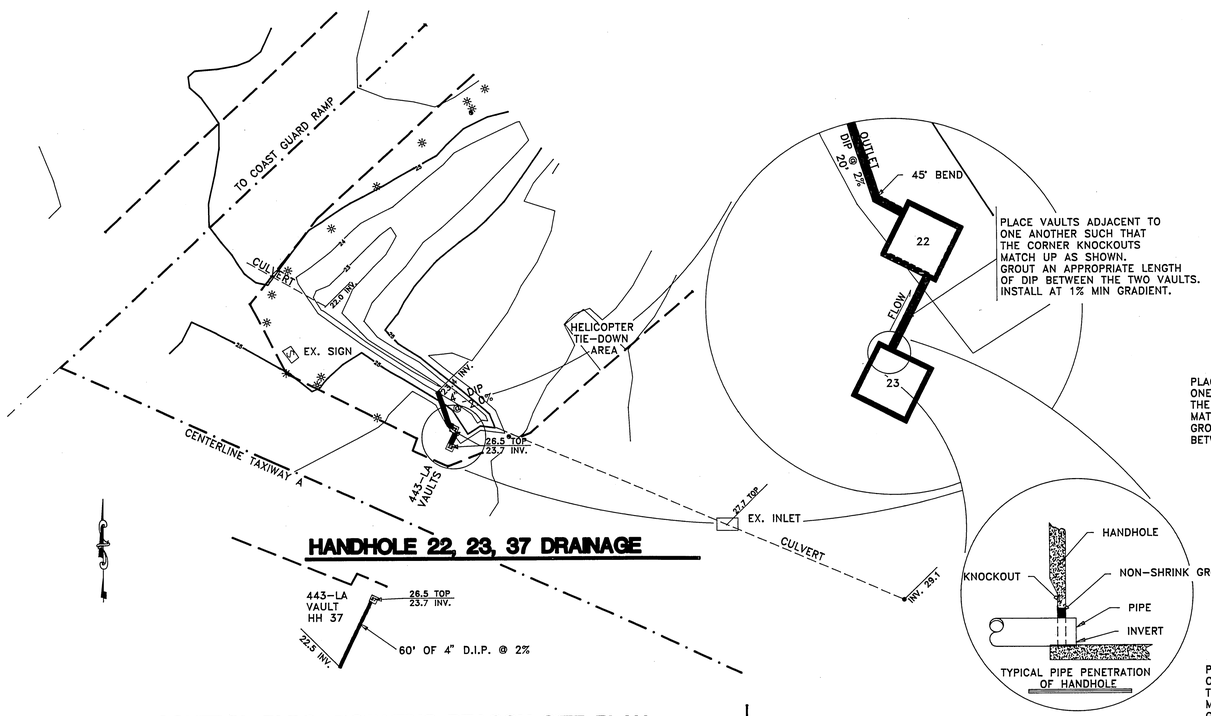
RECORD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & CONSTRUCTION

SITKA AIRPORT RUNWAY/TAXIWAY LIGHTING SYSTEM RENOVATION
SITKA ALASKA
NEW GENERATOR CONTROL BUILDING - NOTES

DESIGNED BY: AER	PROJECT No. 71457
DRAWN BY: AER (D:\PROJECTS\93019\A2.DWG)	DATE: MAY 27, 1994
CHECKED BY: AER	SHEET 18 OF 20

ARCHITECT'S SEAL
STATE OF ALASKA
Alan E. Rogers
No.A-5582
REGISTERED PROFESSIONAL ARCHITECT

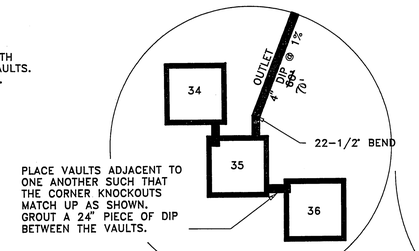


PLACE VAULTS ADJACENT TO ONE ANOTHER SUCH THAT THE CORNER KNOCKOUTS MATCH UP AS SHOWN. GROUT AN APPROPRIATE LENGTH OF DIP BETWEEN THE TWO VAULTS. INSTALL AT 1% MIN GRADIENT.

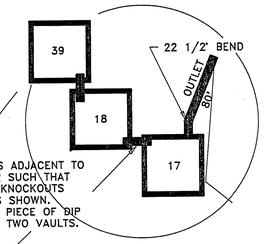
HANDHOLE 22, 23, 37 DRAINAGE

TYPICAL PIPE PENETRATION OF HANDHOLE

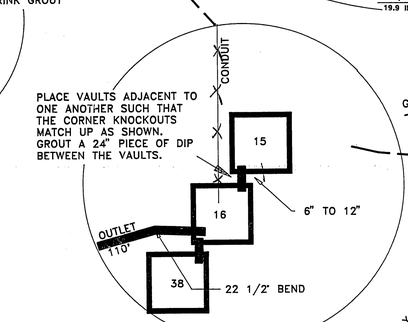
HANDHOLE 17, 18, 39 AND 34, 35, 36 DRAINAGE



PLACE VAULTS ADJACENT TO ONE ANOTHER SUCH THAT THE CORNER KNOCKOUTS MATCH UP AS SHOWN. GROUT A 24" PIECE OF DIP BETWEEN THE VAULTS.

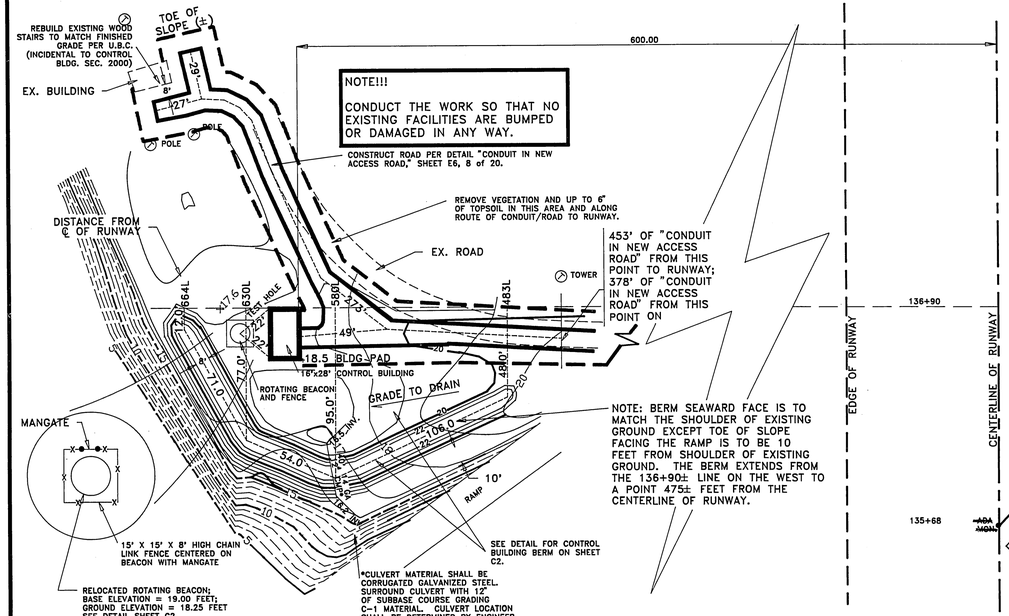


PLACE VAULTS ADJACENT TO ONE ANOTHER SUCH THAT THE CORNER KNOCKOUTS MATCH UP AS SHOWN. GROUT A 24" PIECE OF DIP BETWEEN THE TWO VAULTS.

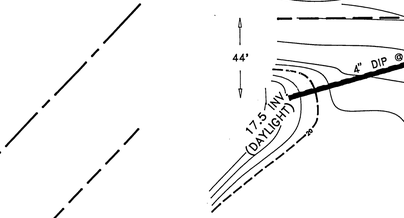


PLACE VAULTS ADJACENT TO ONE ANOTHER SUCH THAT THE CORNER KNOCKOUTS MATCH UP AS SHOWN. GROUT A 24" PIECE OF DIP BETWEEN THE VAULTS.

CONTROL BLDG, ROTATING BEACON SITE PLAN



NOTE: BERM SEAWARD FACE IS TO MATCH THE SHOULDER OF EXISTING GROUND EXCEPT TOE OF SLOPE FACING THE RAMP IS TO BE 10 FEET FROM SHOULDER OF EXISTING GROUND. THE BERM EXTENDS FROM THE 136+90± LINE ON THE WEST TO A POINT 475± FEET FROM THE CENTERLINE OF RUNWAY.



BENCHMARK: ARP ELEV. 22.80; SEE HANDHOLE 15, 16, 38 DRAINAGE DETAIL TO THE RIGHT.

NOTE: HANDHOLE LOCATION IS DEPENDENT ON THE LOCATION OF EXISTING CONDUIT. THE ENGINEER SHALL LOCATE EACH STRUCTURE OR SHALL APPROVE THE LOCATION THEREOF.

HANDHOLE 15, 16, 38 DRAINAGE

REMOVE VEGETATION AND UP TO 6" OF TOPSOIL IN THIS AREA AND ALONG ROUTE OF CONDUIT/ROAD TO CONTROL BUILDINGS.

EXISTING TOPOGRAPHY BY STRAGIER ENGINEERING SERVICES, SITKA, ALASKA

City and Borough of Sitka
PUBLIC SERVICES
304 Lake Street Sitka, Alaska 99835
TEL (907) 747-5500 FAX (907) 747-3158

ENGINEER'S SEAL
STATE OF ALASKA
49th
LARRY HARMON
CE 4284
REGISTERED PROFESSIONAL ENGINEER

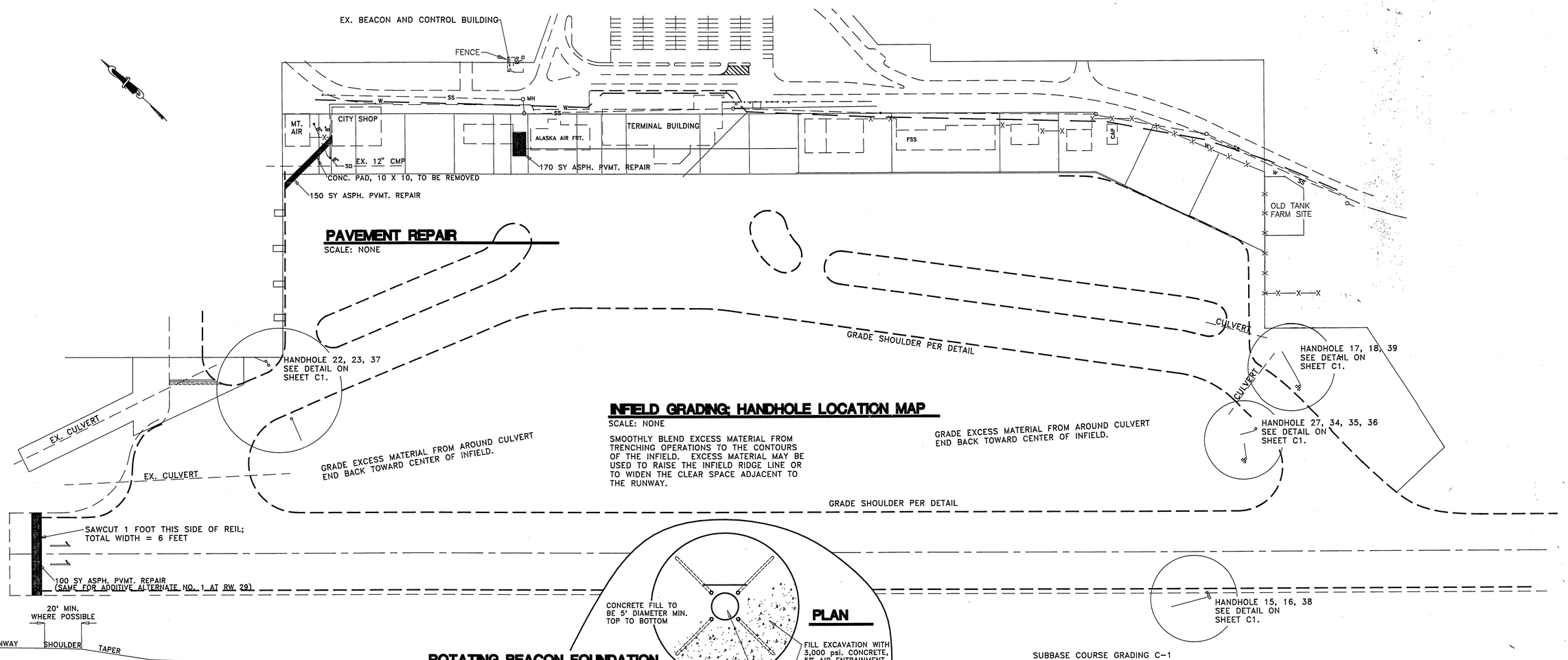
BY:	DATE:	DESCRIPTION OF CHANGE:

RECORD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & CONSTRUCTION

SITKA AIRPORT ELECTRICAL AND LIGHTING IMPROVEMENTS
SITKA ALASKA
VAULT DRAINAGE PLAN, CONTROL BLDG., ROTATING BEACON SITE PLAN

DESIGNED BY: –	DATE: MAY, 1994	PROJECT No. 71457
DRAWN BY: PJW		C1 of 2
CHECKED BY: –		SHEET 19 OF 20



BY:	DATE:	DESCRIPTION OF CHANGE:

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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & CONSTRUCTION

SITKA AIRPORT ELECTRICAL AND LIGHTING IMPROVEMENTS
SITKA ALASKA
MISC. DETAILS

DESIGNED BY: –	DATE: MAY, 1994	PROJECT No. 71457
DRAWN BY: PJW		C2 of 2
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