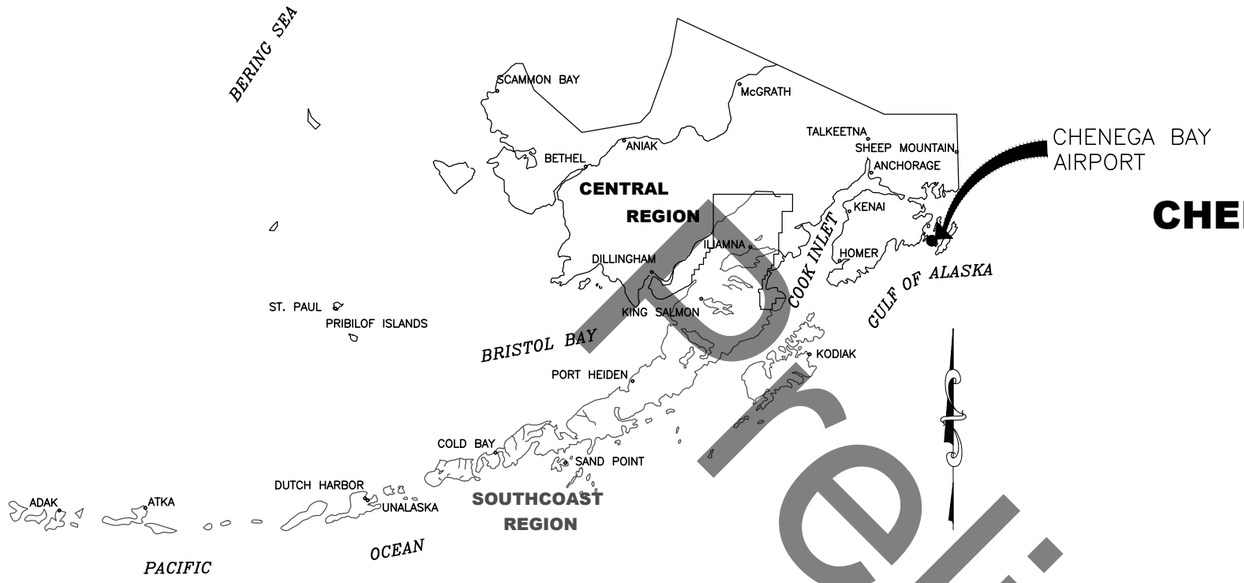
CONSTRUCTION PLANS

CHENEGA BAY AIRPORT
CHENEGA BAY, ALASKA

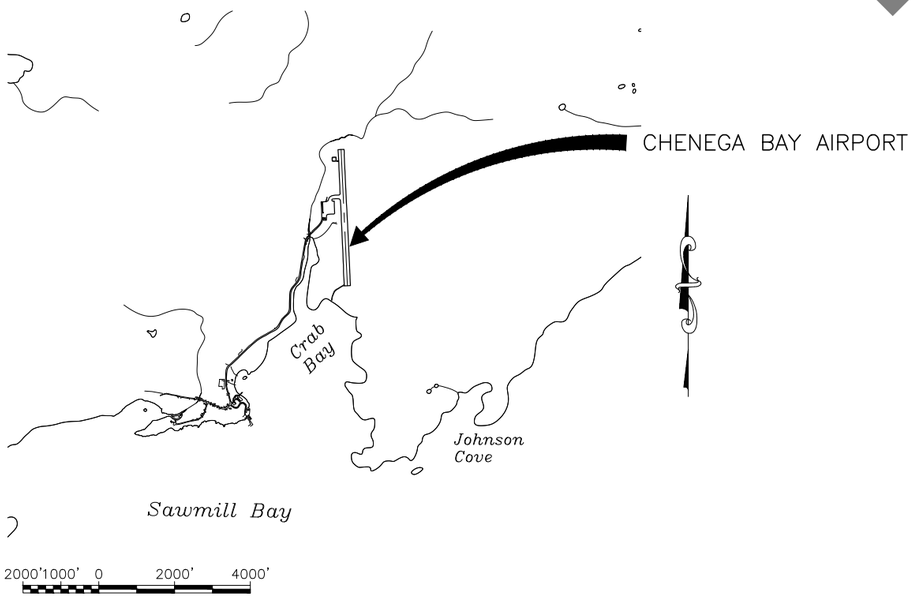
CHENEGA BAY AIRPORT LIGHTING IMPROVEMENTS
PROJECT No. CFAPT01021
AIRPORT IMPROVEMENT PROGRAM
No. 3-02-0419-XXX-202X

PS&E REVIEW
APRIL 2024



ALASKA CENTRAL REGION
LOCATION MAP

NOT TO SCALE



VICINITY MAP

T 1 S, R 8 W SEC. 13, 24, & 25
SEWARD MERIDIAN
U.S.G.S. ANCHORAGE (A-3), ALASKA

APPROVED — **DATE**
LUKE BOWLAND, P.E. — REGIONAL PRECONSTRUCTION ENGINEER

APPROVED — **DATE**
JENELLE R. BRINKMAN, P.E. — AVIATION DESIGN GROUP CHIEF

APPROVED — **DATE**
KIM SATTERFIELD, P.E. — PROJECT MANAGER

CONCUR — **DATE**
JOEL G. ST. AUBIN, P.E. — REGIONAL CONSTRUCTION ENGINEER

PLANS DEVELOPED BY:
CRW ENGINEERING GROUP
3940 ARCTIC BLVD. SUITE 300
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(907) 562-3252
#AECL882-AK

BY	DATE	REVISION

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
CENTRAL REGION
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PHONE (907) 269-0590

CHENEGA BAY AIRPORT
CHENEGA BAY, ALASKA
CHENEGA BAY AIRPORT LIGHTING IMPROVEMENTS
PROJECT No. CFAPT01021
AIP No. 3-02-0419-XXX-202X
TITLE, SIGNATURES, LOCATION MAP & VICINITY MAP

DATE: APRIL 2024

SHEET: 1 OF 7

Designed By: TN
Drawn By: SS
Checked By: WS

Date Revised: 4/18/2024 2:44 PM
Layout Name: 1
File Path and Name: \\crweng.com\projects\JobsData\30130.00 Talkeetna-chenega Bay Airport Lighting\00 CADD\01 Working Set\01 Civil\01 Chenega Bay\01021-C05-Cover.dwg

INDEX

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APPENDIX DRAWINGS

SHEET TITLE	SHEET No.
SURVEY CONTROL	TO BE PROVIDED BY ADOT&PF
PHASING PLAN	AC1 – AC6

LEGEND

DESCRIPTION	EXISTING	PROPOSED
AIRPORT PROPERTY BOUNDARY		
BUILDING		
CENTERLINE (RUNWAY/TAXIWAY)		
CONCRETE		
ELECTRICAL MANHOLE		
ELECTRICAL METER		
ELECTRIC ROUTED OVERHEAD IN BUILDING		
ELECTRIC TRANSFORMER		
FAA CONDUIT	FAA	
FENCE (CHAIN POST)	x x	
FUEL TANK		
GRAVEL EDGE		
GROUND ROD		
HANDHOLE		
IDENTIFICATION BUBBLE/SHEET NOTE REFERENCE SYMBOL		
JUNCTION BOX TYPE II		
MICROWAVE AIRCRAFT/VEHICLE SENSOR		
OVERHEAD ELECTRIC	OHE	
RAISED STOP BAR/RUNWAY GUARD LIGHT, UNI–DIRECTIONAL		
ROTATING BEACON		
RUNWAY/TAXIWAY EDGE LIGHT		
RUNWAY THRESHOLD LIGHT, BI–DIRECTIONAL		
STORM DRAIN PIPE		
TAXIWAY OBJECT FREE AREA		TOFA
TELEPHONE PEDESTAL		
TELEPHONE MANHOLE		
TREELINE		
UNDERGROUND ELECTRIC	UGE	UGE
VHF ANTENNA		
WIND CONE		
OBJECT FREE AREA	OFA	
OBJECT FREE ZONE	OFZ	
RUNWAY SAFETY AREA	RSA	
RUNWAY PROTECTION ZONE	RPZ	

2 INCH HDPE CONDUIT (UON), #8 AWG 5kV L–824 CABLE (NUMBER OF TICK MARKS (|) INDICATE NUMBER OF 5kV CABLES PER CONDUIT). INSTALL (1) #6 AWG BARE COPPER GROUND CONDUCTOR FOR EACH CONDUIT.

ABBREVIATIONS

AC	ADVISOR CIRCULARS	LS	LUMP SUM
AIP	AIRPORT IMPROVEMENT PROGRAM	ME	MATCH EXISTING
ASTM	AMERICAN SOCIETY FOR TESTING MATERIALS	MH	MANHOLE
ATB	ASPHALT TREATED BASE	MIN	MINIMUM
AWOS	AUTOMATIC WEATHER OBSERVING SYSTEM	NEC	NATIONAL ELECTRICAL CODE
BC	BARE COPPER	NTS	NOT TO SCALE
BMPS	BEST MANAGEMENT PRACTICES	OC	ON CENTER
BOP	BEGINNING OF PROJECT	OFZ	OBJECT FREE ZONE
℄/CL	CENTERLINE	PC	POINT OF CURVATURE
C	CONDUIT	PCC	PORTLAND CEMENT CONCRETE
CABC	CRUSHED AGGREGATE BASE COURSE	PI	POINT OF INTERSECTION
CCR	CONSTANT CURRENT REGULATOR	PM	PAVEMENT MARKING
CKT	CIRCUIT	PS&E	PLANS, SPECIFICATIONS, AND ESTIMATE
CSPP	CONSTRUCTION SAFETY AND PROTECTION PLAN	PT	POINT OF TANGENCY
CN	CONCRETE	PU	PER UNIT
CMP	CORRUGATED METAL PIPE	R	RADIUS
CPEP	CORRUGATED POLYETHYLENE PIPE	RGS	RIGID GALVANIZED STEEL (CONDUIT)
CPM	CRITICAL PATH METHOD	RT	RIGHT
CS	CONTINGENT SUM	RD	ROAD
DIA, ø	DIAMETER	REHAB	REHABILITATION
DOT&PF	DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES	REQ'D	REQUIRED
		RPZ	RUNWAY PROTECTION ZONE
EA	EACH	RSA	RUNWAY SAFETY AREA
EEB	ELECTRICAL EQUIPMENT BUILDING	RVR	RUNWAY VISUAL RANGE
EMH	ELECTRICAL MANHOLE	RW	RUNWAY
EOC	EDGE OF CONCRETE	SD	STORM DRAIN
EOL	END OF LOOP	SF	SQUARE FEET
EOP	END OF PROJECT / EDGE OF PAVEMENT	SREB	SNOW REMOVAL EQUIPMENT BUILDING
ESCP	EROSION AND SEDIMENT CONTROL PLAN	SS	SANITARY SEWER/STAINLESS STEEL
FAA	FEDERAL AVIATION ADMINISTRATION	SY	SQUARE YARD
FI	FIELD INLET	SWPPP	STORM WATER POLLUTION PREVENTION PLAN
F&I	FURNISH AND INSTALL	STA	STATION
GRD	GROUND	THD	THRESHOLD
HDPE	HIGH DENSITY POLYETHYLENE	TL	TAXILANE
HH	HANDHOLE	TOFA	TAXIWAY OBJECT FREE AREA
INT	INTERSECTION	T.P.	TEST POINT
KVA	KILO VOLT–AMP	TSA	TAXIWAY SAFETY AREA
kW	KILO–WATT	TW	TAXIWAY
LF	LINEAR FOOT	TYP	TYPICAL
LO–VIS	LOW VISIBILITY	UON	UNLESS OTHERWISE NOTED
LT	LEFT	W	WATTS
LTS	LIGHTS		

LIGHT NAMING CONVENTION:

RE	RUNWAY EDGE LIGHT
TE	TAXIWAY EDGE LIGHT
RT	RUNWAY THRESHOLD LIGHT

LIGHT COLORS AND DISTRIBUTIONS:

B	BLUE
Y	YELLOW
G	GREEN
R	RED
W	WHITE
BL	BLANK
BI	BI–DIRECTIONAL
UNI	UNI–DIRECTIONAL
OMNI	OMNI–DIRECTIONAL

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PROJECT No. CFAPT01021
AIP No. 3–02–0419–XXX–202X
INDEX, APPENDIX & ABBREVIATIONS

DATE: APRIL 2024

SHEET: 2 OF 7

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Drawn By: SS
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Date Revised: 4/18/2024 3:48 PM
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ESTIMATED QUANTITIES

No.	ITEM	UNIT	QUANTITY
G100.010.0000	MOBILIZATION AND DEMOBILIZATION	LS	ALL REQ'D
G115.010.0000	WORKER MEALS AND LODGING, OR PER DIEM	LS	ALL REQ'D
G130.010.0000	FIELD OFFICE	LS	ALL REQ'D
G130.020.0000	FIELD LABORATORY	LS	ALL REQ'D
G130.040.0000	MEAL	EACH	450
G130.050.0000	LODGING	EACH	90
G130.060.0000	NUCLEAR TESTING EQUIPMENT STORAGE SHED	EACH	1
G130.070.0000	STORAGE CONTAINER	EACH	1
G130.090.0000	ENGINEERING COMMUNICATIONS	CS	ALL REQ'D
G131.010.0000	ENGINEERING TRANSPORTATION (TRUCK)	EACH	1
G135.010.0000	CONSTRUCTION SURVEYING BY THE CONTRACTOR	LS	ALL REQ'D
G135.020.0000	EXTRA THREE PERSON SURVEY PARTY	HOUR	40
G150.020.0075	EQUIPMENT RENTAL, DOZER 75–HP MINIMUM	CS	ALL REQ'D
G300.010.0000	CPM SCHEDULING	LS	ALL REQ'D
G700.010.0000	AIRPORT FLAGGER	CS	ALL REQ'D
L101.020.0000	ROTATING BEACON, MEDIUM INTENSITY, L–801A	EACH	1
L103.010.0040	40–FEET HINGED POLE BEACON TOWER	EACH	1
L107.010.0008	8–FEET LIGHTED WIND CONE, IN PLACE	EACH	2
L108.010.2008	UNDERGROUND CABLE #8 AWG, COPPER, 5KV FAA TYPE C, L–824	LF	9,640
L108.030.0006	#6 BARE COPPER GROUND CONDUCTOR	LF	14,721
L108.050.1006	UNDERGROUND CABLE #6 AWG, COPPER, 600V FAA TYPE C, L–824	LF	5,447
L108.050.1010	UNDERGROUND CABLE #10 AWG, COPPER, 600V FAA TYPE C, L–824	LF	794
L108.070.0000	GROUND ROD	EACH	10
L109.050.0000	INSTALLATION OF ELECTRICAL EQUIPMENT IN NEW OR EXISTING STRUCTURE	LS	ALL REQ'D
L109.090.0000	MODIFICATION OF ELECTRICAL ENCLOSURE	EACH	1
L110.030.1002	RIGID STEEL CONDUIT, 2–INCH	LF	759
L110.080.1002	HDPE CONDUIT, 2–INCH	LF	8,694
L119.010.0000	OBSTRUCTION LIGHT	EACH	4

No.	ITEM	UNIT	QUANTITY
L125.020.0000	REGULATOR, L–828	EACH	1
L125.030.0000	MEDIUM INTENSITY RUNWAY EDGE AND THRESHOLD LIGHT, L–861 AND L–861E	EACH	41
L125.040.0000	TAXIWAY EDGE LIGHT, L–861T	EACH	22
L125.060.0000	PRIMARY HANDHOLE, L–868, SIZE B	EACH	12
L125.070.0000	REMOVE RUNWAY AND TAXIWAY LIGHT	EACH	66
L125.150.0000	HANDHOLE, L–867, SIZE B	EACH	3
L125.170.0000	SPARE PARTS	CS	ALL REQ'D
L125.180.0000	TEMPORARY RUNWAY LIGHTING SYSTEM	LS	ALL REQ'D
L125.450.0000	REMOVE AIRPORT ELECTRICAL	LS	ALL REQ'D
L125.500.0000	MISCELLANEOUS AIRPORT ELECTRICAL WORK	CS	ALL REQ'D
P151.040.0000	CLEARING & GRUBBING	LS	ALL REQ'D
P299.020.0000	CRUSHED AGGREGATE SURFACE COURSE	TON	12
P620.070.0000	TEMPORARY RUNWAY & TAXIWAY PAINTING	LS	ALL REQ'D
P640.030.0000	SEGMENTED CIRCLE (PANEL ONLY)	SF	512
P641.010.0000	EROSION, SEDIMENT, AND POLLUTION CONTROL ADMINISTRATION	LS	ALL REQ'D
P641.050.0000	TEMPORARY EROSION, SEDIMENT, AND POLLUTION CONTROL BY DIRECTIVE	CS	ALL REQ'D
P641.060.0000	WITHHOLDING	CS	ALL REQ'D
P641.070.0000	SWPPP MANAGER	LS	ALL REQ'D
P641.110.0000	SWPPPTRACK	CS	ALL REQ'D
P660.030.0000	REFLECTIVE MARKER, TYPE II	EACH	74
P670.010.0000	HAZARD MARKER BARRIER, PLASTIC	EACH	31
P671.010.0000	RUNWAY CLOSURE MARKER, VINYL MESH	EACH	2
P671.040.0000	TAXIWAY CLOSURE MARKER, VINYL	EACH	7
T901.080.0000	SEEDING	LS	ALL REQ'D
T905.020.0020	TOPSOILING, CLASS B	LS	ALL REQ'D

ESTIMATED FACTORS

No.	ITEM	FACTOR
P299.020.0000	CRUSHED AGGREGATE SURFACE COURSE	2.00 TON/CY

STATE OF ALASKA
49TH
Matthew A. Haymes
CE-103211
REGISTERED PROFESSIONAL ENGINEER

PLANS DEVELOPED BY:
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(907) 562–3252
#AECL882–AK

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DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
CENTRAL REGION
4111 AVIATION AVE., ANCHORAGE ALASKA 99502
PHONE (907) 269-0590

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CHENEGA BAY, ALASKA
CHENEGA BAY AIRPORT LIGHTING IMPROVEMENTS
PROJECT No. CFAPT01021
AIP No. 3–02–0419–XXX–202X
ESTIMATED QUANTITIES

DATE: APRIL 2024
SHEET: 3 OF 7

Designed By: TN
Drawn By: SS
Checked By: WS

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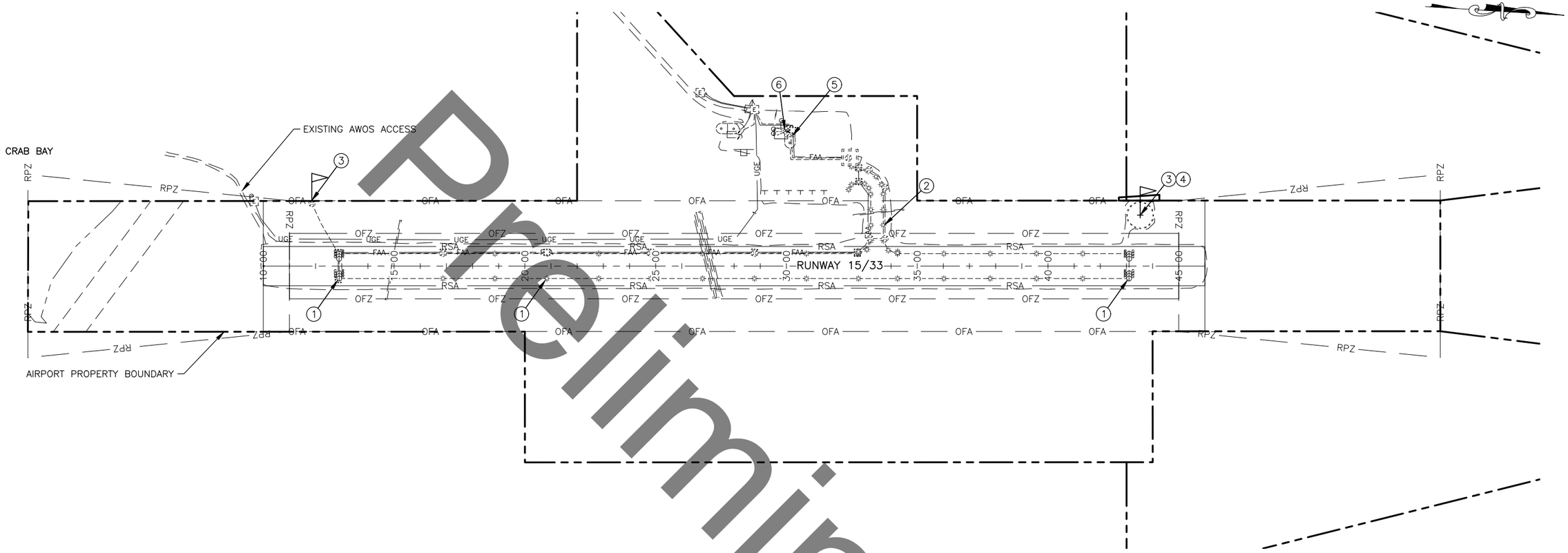

1/4 PROJECT LAYOUT PLAN

200' 100' 0 200' 400'

SCOPE OF THE PROJECT INCLUDES, BUT IS NOT LIMITED TO CONSTRUCTION OF THE FOLLOWING:

1. REPLACE RUNAWAY EDGE AND THRESHOLD LIGHTS
2. REPLACE TAXIWAY EDGE LIGHTS
3. REPLACE WIND CONE
4. REPLACE SEGMENTED CIRCLES
5. NEW ROTATING BEACON TOWER
6. UPGRADE AIRPORT LIGHTING EQUIPMENT AT EEB

STATE OF ALASKA 49TH Matthew A. Haymes CE-103211 REGISTERED PROFESSIONAL ENGINEER

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PROJECT LAYOUT PLAN

DATE: APRIL 2024
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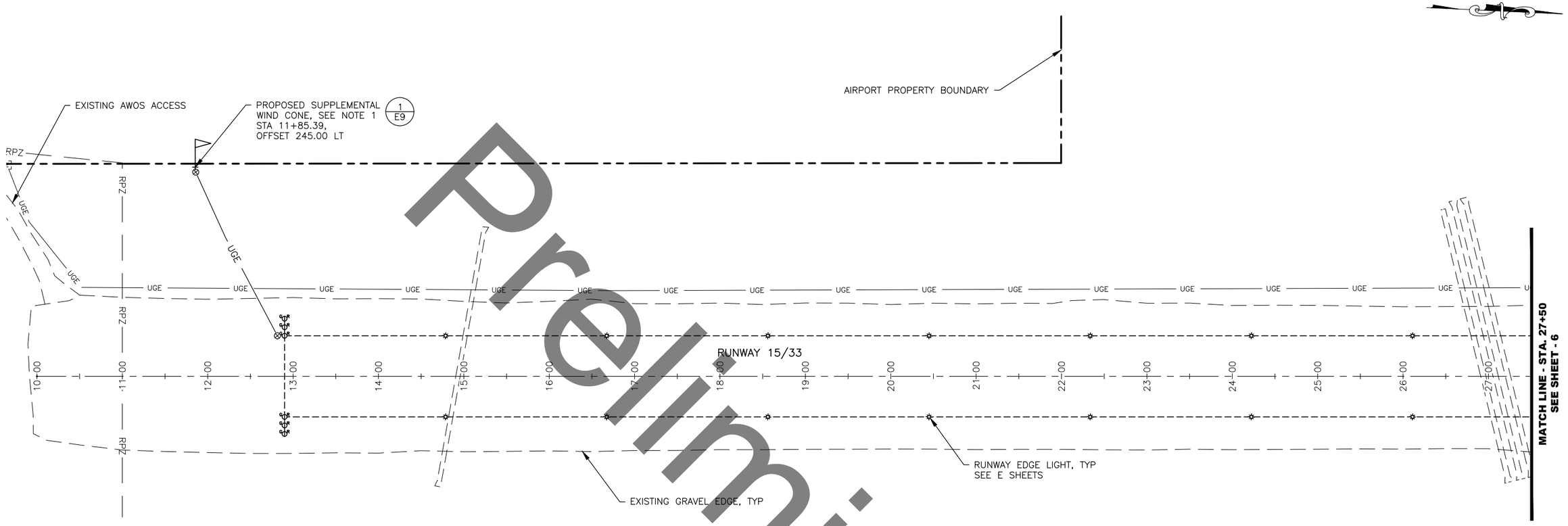

1
5

SITE PLAN – BOP TO STA 27+50

60' 30' 0 60' 120'

NOTES:

1. REMOVE EXISTING SUPPLEMENTAL WIND CONE, FOUNDATION, AND HANDHOLE. SEE E SHEETS FOR MORE INFORMATION.
2. SEE E SHEETS FOR DEMOLITION AND PROPOSED WORK REQUIREMENTS.

Designed By: TN
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STATE OF ALASKA 49TH
Matthew A. Haymes 7/31
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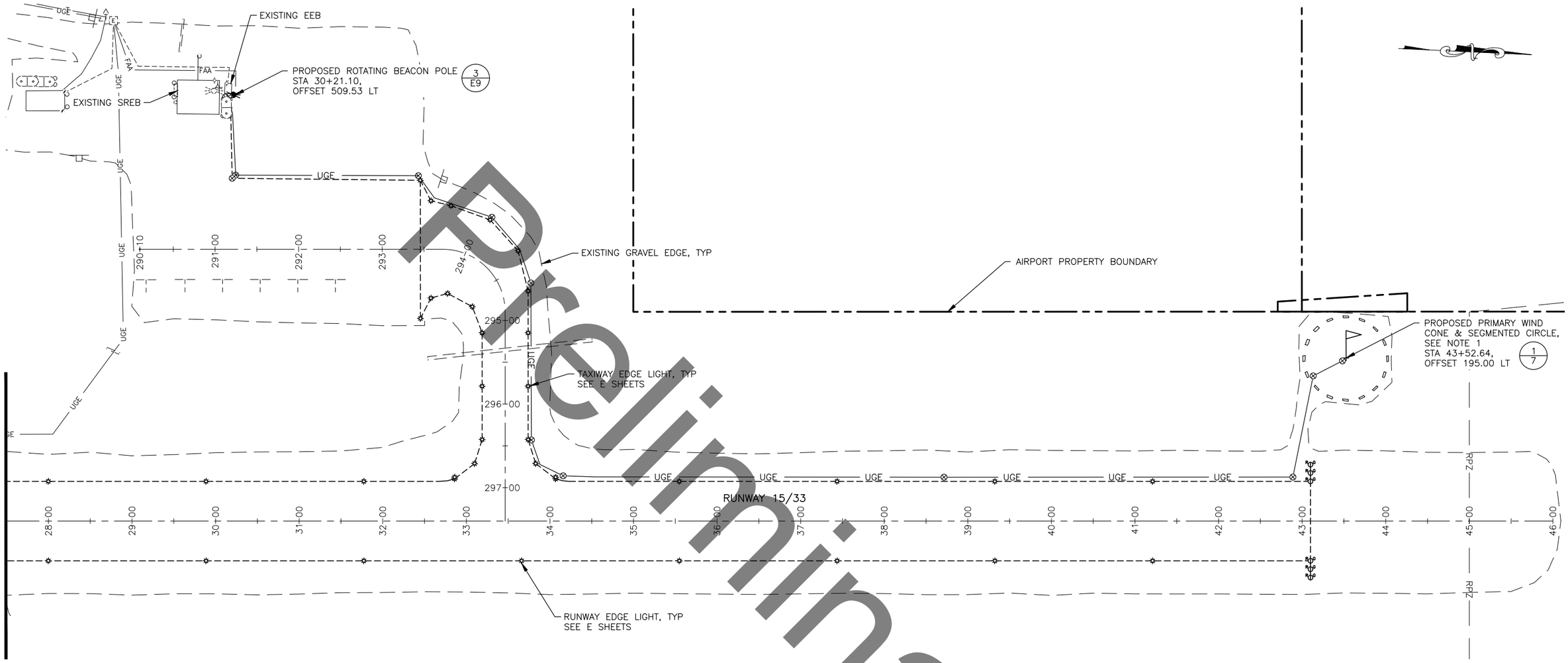
SITE PLAN – BOP TO STA 27+50

DATE: APRIL 2024
SHEET: 5 OF 7



1
6

SITE PLAN – STA 27+50 TO EOP

60' 30' 0 60' 120'

NOTES:

1. REMOVE EXISTING PRIMARY WIND CONE, FOUNDATION, HANDHOLE, AND SEGMENTED CIRCLE PANELS. SEE E SHEETS FOR MORE INFORMATION.
2. SEE E SHEETS FOR DEMOLITION AND PROPOSED WORK REQUIREMENTS.

STATE OF ALASKA
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SITE PLAN – STA 27+50 TO EOP

DATE: APRIL 2024
SHEET: 6 OF 7

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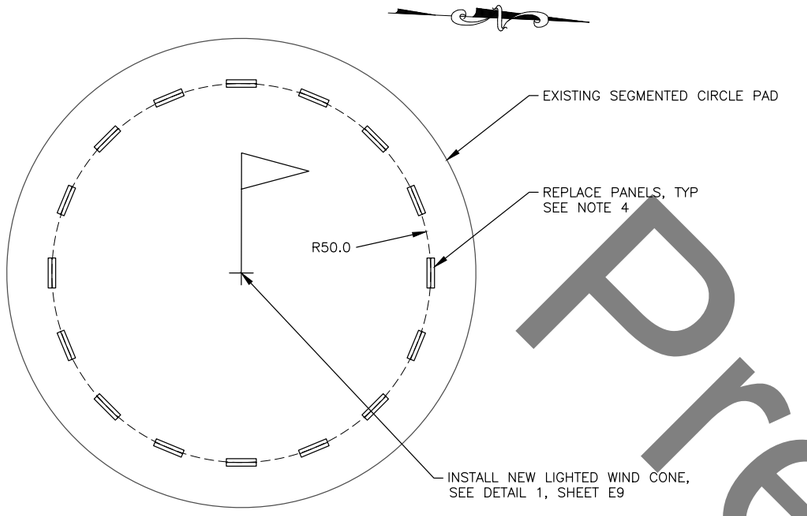
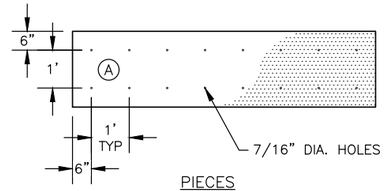


1/7 SEGMENTED CIRCLE LAYOUT

NTS



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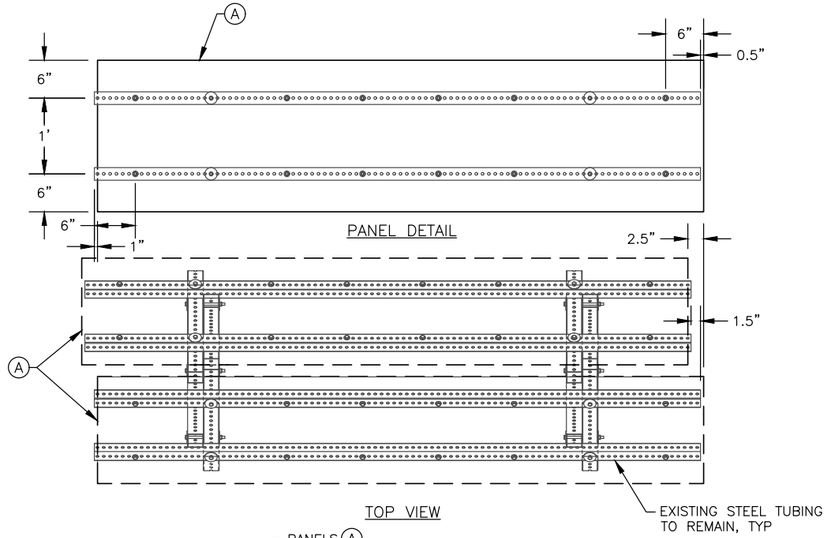
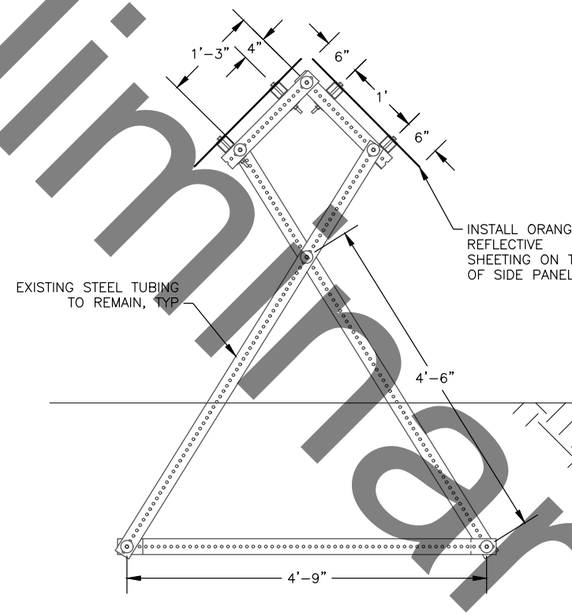
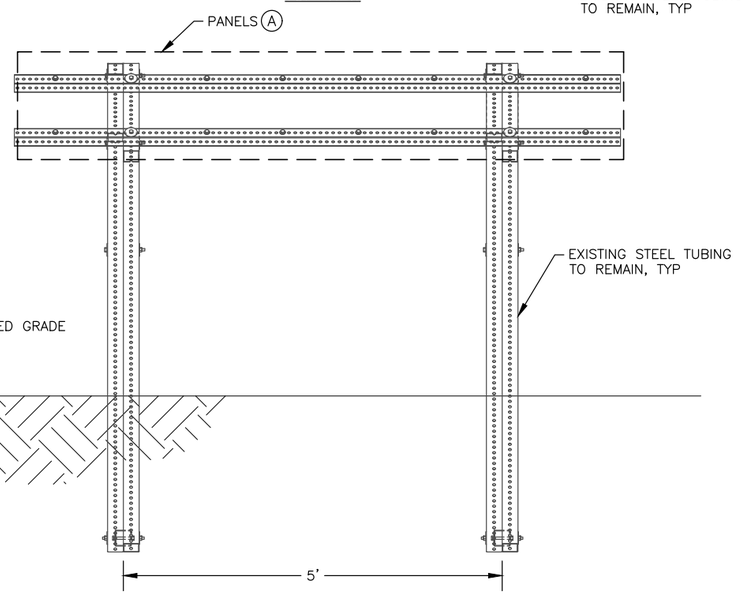


TOP VIEW



SIDE VIEW



FRONT VIEW

PIECE	DESCRIPTION	QTY
A	24" x 96" x 0.08 – 0.09" THICK ALUMINUM 6061–T6 OR 5052–H36/38	2
	3/8" x 3" GALV. BOLT, NUT	24
	3/8" x 5" GALV. BOLT, NUT	4
	3/8" x 6" GALV. BOLT, NUT	16
	3/8" GALV. REGULAR WASHER	48
	3/8" x 2" DIA. S.S. FENDER WASHER	40
	24" x 96" ORANGE RETROFLECTIVE SHEETING	2

NOTES:

1. CRITICAL ASSEMBLY DIMENSIONS ARE BETWEEN HOLES.
2. PAINT ALL CUT EDGES WITH COLD GALVANIZING.
3. APPLY REFLECTIVE FILM TO PANELS BEFORE ASSEMBLY.
4. REMOVE AND REPLACE ALL EXISTING SEGMENTED CIRCLE PANELS. CONTRACTOR SHALL REPLACE ANY DAMAGED STEEL TUBING IF NECESSARY FOR PANEL REPLACEMENT.

2/7 SEGMENTED CIRCLE PANEL ASSEMBLY

NTS

STATE OF ALASKA · 49TH · Matthew A. Haymes · CE-103211 · REGISTERED PROFESSIONAL ENGINEER

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SEGMENTED CIRCLE DETAILS

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Date Revised:
Layout Name: 7
File Path and Name: \\crweng.com\Projects\JobsData\30130.00 Talkeetna-chenega Bay Airport Lighting\00 CADD\01 Working Set\01 Civil\01 Chenega Bay\01021-C05-Site Plan.dwg
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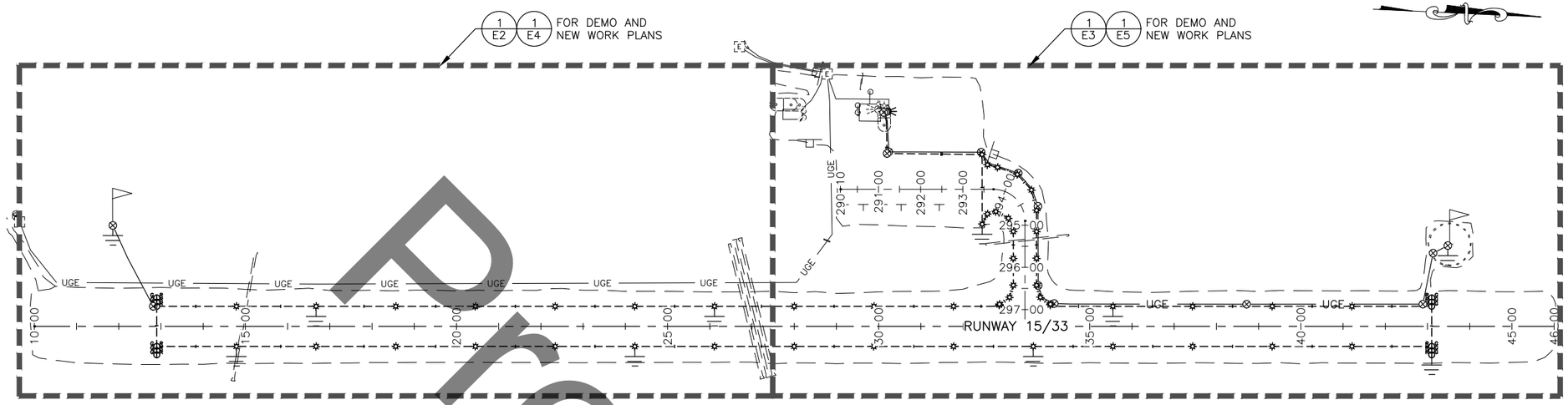


1 E1 ELECTRICAL KEY PLAN

150' 75' 0 150' 300'

GENERAL NOTES:

1. EXISTING INSTALLATION: LOCATIONS OF EXISTING FACILITIES SHOWN IN PLANS ARE DERIVED FROM RECORD DRAWINGS AND LIMITED FIELD OBSERVATIONS AND SHALL BE FIELD VERIFIED. PROVIDE LOCATES TO IDENTIFY EXISTING UNDERGROUND FACILITIES BEFORE CONSTRUCTION.

2. DEMOLITION: REMOVAL OF ITEMS AS INDICATED IN THE ELECTRICAL DEMOLITION PLAN SHALL INCLUDE ALL ASSOCIATED CONDUIT, CONDUCTORS, LIGHT FIXTURES AND BASES, CONTROL EQUIPMENT, TRANSFORMERS, DRAIN CONDUITS, HANDHOLES, JUNCTION BOXES, FOUNDATIONS, AND CONCRETE UNLESS OTHERWISE NOTED. REMOVED MATERIALS SHALL NOT BE REUSED IN NEW WORK UNLESS OTHERWISE NOTED.

3. SALVAGE: THE OWNER SHALL HAVE FIRST RIGHT OF REFUSAL ON ALL SALVAGEABLE ITEMS BELOW:
   - CCR AND OPERABLE LIGHTS. REMOVE FROM THE ISLAND TO A LOCATION DESIGNATED BY PROJECT ENGINEER ON THE MAINLAND.
   - TYPE II JUNCTION BOXES IN GOOD CONDITION. STORE ON SITE AT LOCATION DESIGNATED BY PROJECT ENGINEER.

   REMOVE ALL OTHER DEMOLITION MATERIAL FROM ISLAND FOR DISPOSAL IN AN APPROVED MANNER AT AN APPROPRIATE DISPOSAL SITE ON THE MAINLAND. SALVAGE COSTS SHALL BE SUBSIDIARY TO ITEM L125.450.0000 – REMOVE AIRPORT ELECTRICAL.

4. DISPOSAL: PROVIDE DISPOSAL OF ALL UNWANTED MATERIALS IN THE WORK AT AN APPROVED SITE, ON THE MAINLAND IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REGULATIONS. DISPOSAL COSTS SHALL BE SUBSIDIARY TO ITEM L125.450.0000 – REMOVE AIRPORT ELECTRICAL.

5. UTILITIES: CONTRACTOR SHALL SCHEDULE ALL REQUIRED OUTAGES AND WORK AFFECTING UTILITIES WITH THE UTILITY REPRESENTATIVE(S) THROUGH THE PROJECT ENGINEER. THE SERVING UTILITIES FOR THIS PROJECT ARE:
   - ELECTRIC: JAKE MAXWELL, 1–907–677–4995. EMAIL: JAKE.MAXWELL@CHENEGA.COM

6. OUTAGES: COORDINATE ALL POWER AND LIGHTING OUTAGES REQUIRED BY THE WORK WITH THE PROJECT ENGINEER. SCHEDULE WORK TO MINIMIZE OUTAGES.

7. AIRFIELD LIGHTING CIRCUITS:
   - #8 5KV AIRFIELD LIGHTING CABLE SHALL BE FAA L–824, TYPE C.
   - PROVIDE A #6 AWG BARE COPPER GROUND CONDUCTOR WITH ALL LIGHTING CIRCUIT RUNS.
   - PROVIDE A SUITABLE PULLROPE IN ALL EMPTY CONDUITS.

8. PHASED CONSTRUCTION: PROVIDE TEMPORARY RUNWAY LIGHTING SYSTEM FOR HALF–WIDTH RUNWAY AND TAXIWAY OPERATIONS USING EXISTING RUNWAY LIGHTING CIRCUIT HOMERUN, REGULATOR, AND CONTROLS. SEE CIVIL PLANS FOR ADDITIONAL INFORMATION ON CONSTRUCTION PHASING AND SEQUENCE OF WORK.

ELECTRICAL ABBREVIATIONS

ø	PHASE, DIAMETER	LTG	LIGHTING
A	AMPERE	MIRL	MEDIUM INTENSITY RUNWAY LIGHTS
AIP	ABANDONED IN PLACE	MITL	MEDIUM INTENSITY TAXIWAY LIGHTS
AFG	ABOVE FINAL GRADE	N	NEUTRAL (GROUNDED) CONDUCTOR
BC, BCG	BARE COPPER, BARE COPPER GROUND	(N)	NEW
C	CONDUIT	NFS	NON–FROST SUSCEPTIBLE
CB	CIRCUIT BREAKER	NIC	NOT IN CONTRACT
CKT	CIRCUIT	NO.	NUMBER
CL	CENTERLINE	OC	ON CENTER
CP	CONTROL PANEL	OD	OUTSIDE DIAMETER
CU	COPPER	OSP	OUTSIDE PLANT (CABLE)
DEMO	DEMOLITION	P	POLE
(E)	EXISTING	PE	POLYETHYLENE
EEB	ELECTRICAL EQUIPMENT BUILDING	PEC	PHOTO ELECTRIC CONTROL
EES	EARTH ELECTRODE SYSTEM	PAPI	PRECISION APPROACH PATH INDICATOR
EGC	EQUIPMENT GROUNDING CONDUCTOR	PU	PER UNIT
EMT	ELECTRICAL METALLIC TUBING	REIL	RUNWAY END IDENTIFICATION LIGHT
ETR	EXISTING TO REMAIN	RSA	RUNWAY SAFETY AREA
FAA	FEDERAL AVIATION ADMINISTRATION	RW, RWY	RUNWAY
GEC	GROUNDING ELECTRODE CONDUCTOR	RMC	RIGID METAL CONDUIT
GND	GROUND	RT	RIGHT
H	HOT (UNGROUNDED) CONDUCTOR	SREB	SNOW REMOVAL EQUIPMENT BUILDING
HDG	HOT DIP GALVANIZED	SS	STAINLESS STEEL
HDPE	HIGH DENSITY POLYETHYLENE CONDUIT	STA	STATION
HH	HANDHOLE	TBD	TO BE DETERMINED
HOA	HAND OFF AUTO	THL	THRESHOLD
IAW	IN ACCORDANCE WITH	TW, TWY	TAXIWAY
IUA	IDENTIFIER UNIT ASSEMBLY	TYP	TYPICAL
J–BOX	JUNCTION BOX	UG	UNDERGROUND
KV	KILO–VOLT	UON	UNLESS OTHERWISE NOTED
KVA	KILO–VOLT–AMPERE	V	VOLTS
LCP	LIGHTING CONTROL PANEL	W	WIRE, WATTS
LHA	LIGHT HOUSING ASSEMBLY	WP	WEATHERPROOF
LT	LEFT	XFMR	TRANSFORMER
LFMC	LIQUIDTIGHT FLEXIBLE METAL CONDUIT		

STATE OF ALASKA 49TH
Tyler R. Keene
EE-14401
REGISTERED PROFESSIONAL ENGINEER

PLANS DEVELOPED BY:
CRW ENGINEERING GROUP
3940 ARCTIC BLVD. SUITE 300
ANCHORAGE, ALASKA 99503
(907) 562–3252
#AECL882–AK

BY	DATE	REVISION

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
CENTRAL REGION
4111 AVIATION AVE., ANCHORAGE ALASKA 99502
PHONE (907) 269-0590

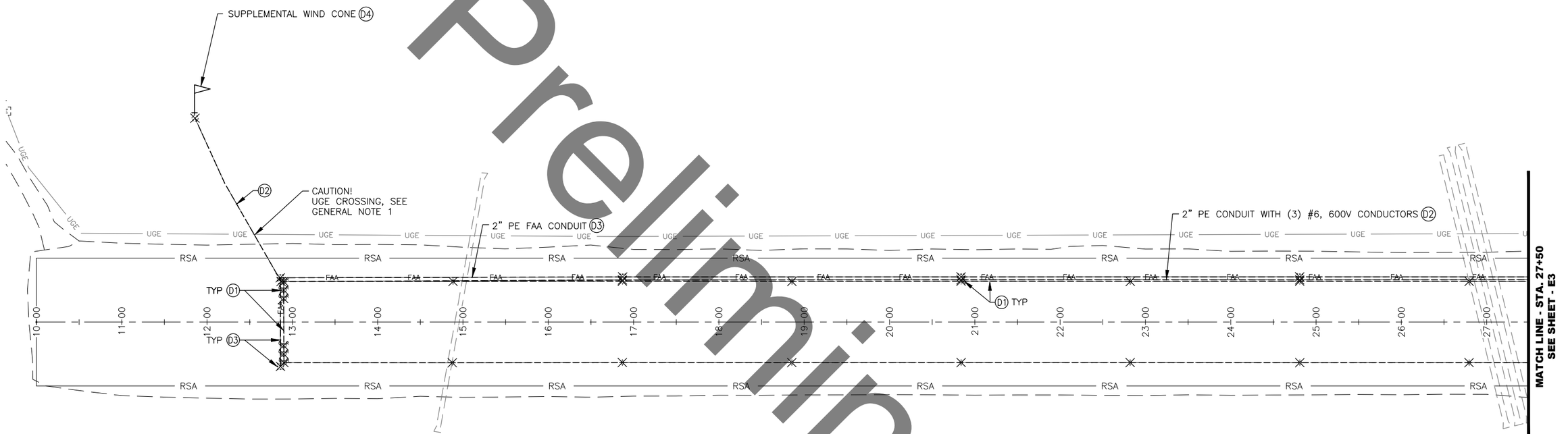
CHENEGA BAY AIRPORT
CHENEGA BAY, ALASKA
CHENEGA BAY AIRPORT LIGHTING IMPROVEMENTS
PROJECT No. CFAPT01021
AIP No. 3–02–0419–XXX–202X
ELECTRICAL KEY PLAN AND ABBREVIATIONS

DATE: APRIL 2024

SHEET: E1 OF E14

Designed By: TN
Drawn By: SS
Checked By: WS

Date Revised: 4/16/2024 5:15 PM
Layout Name: E1
File Path and Name: \\crweng.com\projects\JobsData\30130.00 Talketna–chenega Bay Airport Lighting\00 CADD\01 Working Set\03 Electrical\01 Chenega Bay\01021–C05–Electrical Legend And Abbreviations.dwg



1
E2

AIRPORT DEMOLITION PLAN – BOP TO STA 27+50

60' 30' 0 60' 120'

GENERAL NOTES:

1. UNDERGROUND UTILITIES IN THESE DRAWINGS ARE SHOWN IN GENERAL LOCATIONS ONLY. OTHER UTILITIES MAY EXIST THROUGHOUT THE PROJECT AREA. DEPTHS OF MOST ARE UNKNOWN. LOCATE UTILITIES IN THE VICINITY PRIOR TO EXCAVATION AND DEMOLITION.
2. DEMOLITION WORK IS INDICATED BY BOLD LINETYPE AND AS NOTED.
3. COORDINATE DEMOLITION AS REQUIRED DURING PHASED CONSTRUCTION. REFER TO CONSTRUCTION SAFETY & PHASING PLAN (CSPP).
4. LOCATE ALL UNDERGROUND FACILITIES IN PROJECT AREA BEFORE START OF DEMOLITION.

DEMOLITION NOTES:

(D1) REMOVE RUNWAY, TAXIWAY AND THRESHOLD LIGHTING WITH ALL ASSOCIATED THRESHOLD MARKERS, CONDUIT, HANDHOLES, AND 5KV CIRCUITS WITHIN PROJECT LIMITS, UNLESS OTHERWISE INDICATED AS EXISTING TO REMAIN.

(D2) REMOVE CONDUCTORS, CONDUIT AND ALL ASSOCIATED HANDHOLES TO WIND CONE FROM LIGHTING CONTROL PANEL LOCATED IN THE EEB.

(D3) REMOVE ABANDONED SPARE 2" CONDUIT AND TYPE II JUNCTION BOXES ASSOCIATED WITH PAPI AND REIL ROUGH–IN (PAPI AND REIL EQUIPMENT NOT INSTALLED). CONDUIT ROUTING MAY VARY FROM THAT SHOWN.

(D4) REMOVE WIND CONE, POLE AND FOUNDATION.

DEMOLITION LEGEND:

CONDUIT REMOVAL

LIGHT, HANDHOLE, JUNCTION BOX REMOVAL

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49TH
Tyler R. Keene
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REGISTERED PROFESSIONAL ENGINEER

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CHENEGA BAY AIRPORT
CHENEGA BAY, ALASKA
CHENEGA BAY AIRPORT LIGHTING IMPROVEMENTS
PROJECT No. CFAPT01021
AIP No. 3–02–0419–XXX–202X
AIRPORT DEMOLITION PLAN – BOP TO STA 27+50

DATE: APRIL 2024

SHEET: E2 OF E14

Designed By: TN
Drawn By: SS
Checked By: WS

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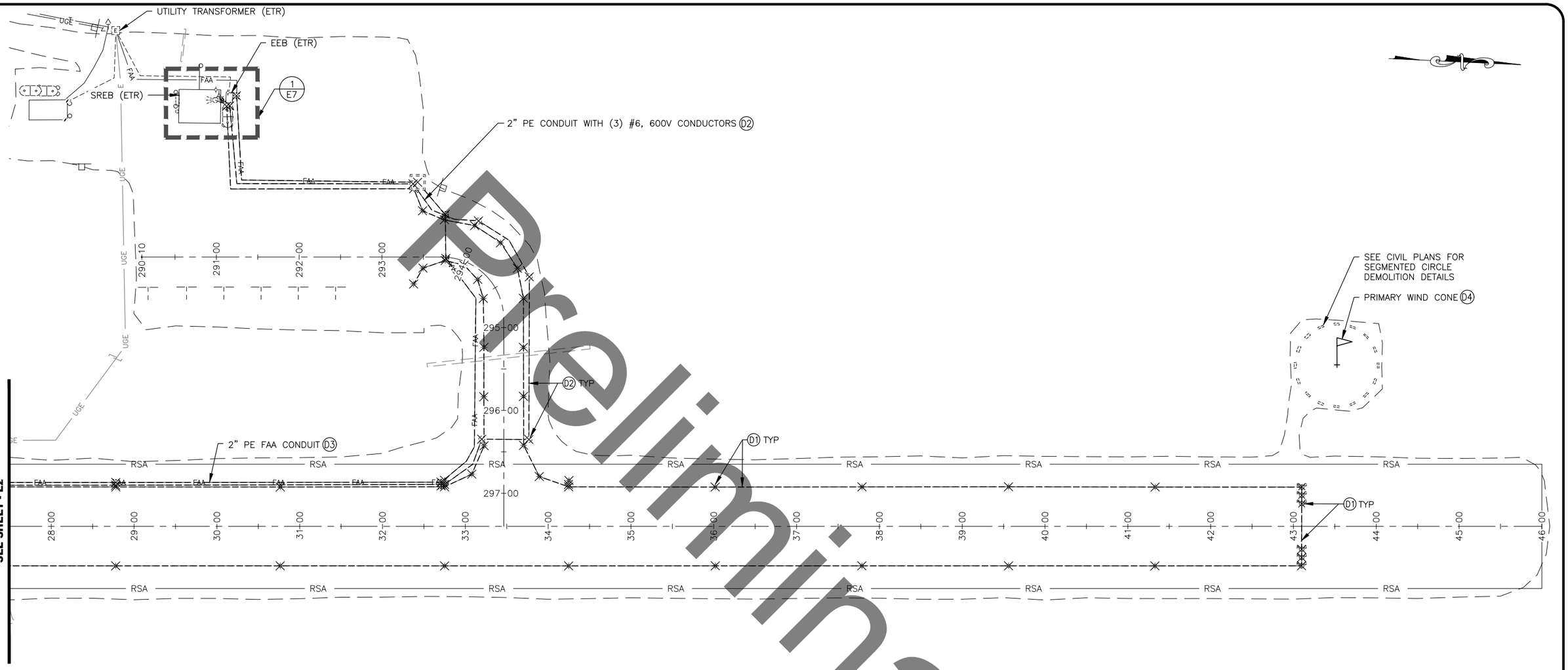
File Path and Name: \\crweng.com\projects\JobsData\30130.00 Talkeetna-chenega Bay Airport Lighting\00 CADD\01 Working Set\03 Electrical\01 Electrical\01 Chenega Bay\01021-C05-Electrical Demo.dwg



1
E3

AIRPORT DEMOLITION PLAN – STA 27+50 TO EOP

GENERAL NOTES:

1. UNDERGROUND UTILITIES IN THESE DRAWINGS ARE SHOWN IN GENERAL LOCATIONS ONLY. OTHER UTILITIES MAY EXIST THROUGHOUT THE PROJECT AREA. DEPTHS OF MOST ARE UNKNOWN. LOCATE UTILITIES IN THE VICINITY PRIOR TO EXCAVATION AND DEMOLITION.
2. DEMOLITION WORK IS INDICATED BY BOLD LINETYPE AND AS NOTED.
3. COORDINATE DEMOLITION AS REQUIRED DURING PHASED CONSTRUCTION. REFER TO CONSTRUCTION SAFETY & PHASING PLAN (CSPP).
4. LOCATE ALL UNDERGROUND FACILITIES IN PROJECT AREA BEFORE START OF DEMOLITION.

DEMOLITION NOTES:

(D1) REMOVE RUNWAY, TAXIWAY AND THRESHOLD LIGHTING WITH ALL ASSOCIATED THRESHOLD MARKERS, CONDUIT, HANDHOLES, AND 5KV CIRCUITS WITHIN PROJECT LIMITS, UNLESS OTHERWISE INDICATED AS EXISTING TO REMAIN.

(D2) REMOVE CONDUCTORS, CONDUIT AND ALL ASSOCIATED HANDHOLES TO WIND CONE FROM LIGHTING CONTROL PANEL LOCATED IN THE EEB.

(D3) REMOVE ABANDONED SPARE 2" CONDUIT AND TYPE II JUNCTION BOXES ASSOCIATED WITH PAPI AND REIL ROUGH-IN (PAPI AND REIL EQUIPMENT NOT INSTALLED). CONDUIT ROUTING MAY VARY FROM THAT SHOWN.

(D4) REMOVE WIND CONE, POLE AND FOUNDATION.

DEMOLITION LEGEND:

CONDUIT REMOVAL

LIGHT, HANDHOLE, JUNCTION BOX REMOVAL

60' 30' 0 60' 120'

STATE OF ALASKA
49TH
Tyler R. Keene
EE-14401
REGISTERED PROFESSIONAL ENGINEER

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BY	DATE	REVISION

STATE OF ALASKA
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CHENEGA BAY AIRPORT
CHENEGA BAY, ALASKA
CHENEGA BAY AIRPORT LIGHTING IMPROVEMENTS
PROJECT No. CFAPT01021
AIP No. 3-02-0419-XXX-202X
AIRPORT DEMOLITION PLAN – STA 27+50 TO EOP

DATE: APRIL 2024
SHEET: E3 OF E14

Designed By: TN
Drawn By: SS
Checked By: WS

Date Revised:
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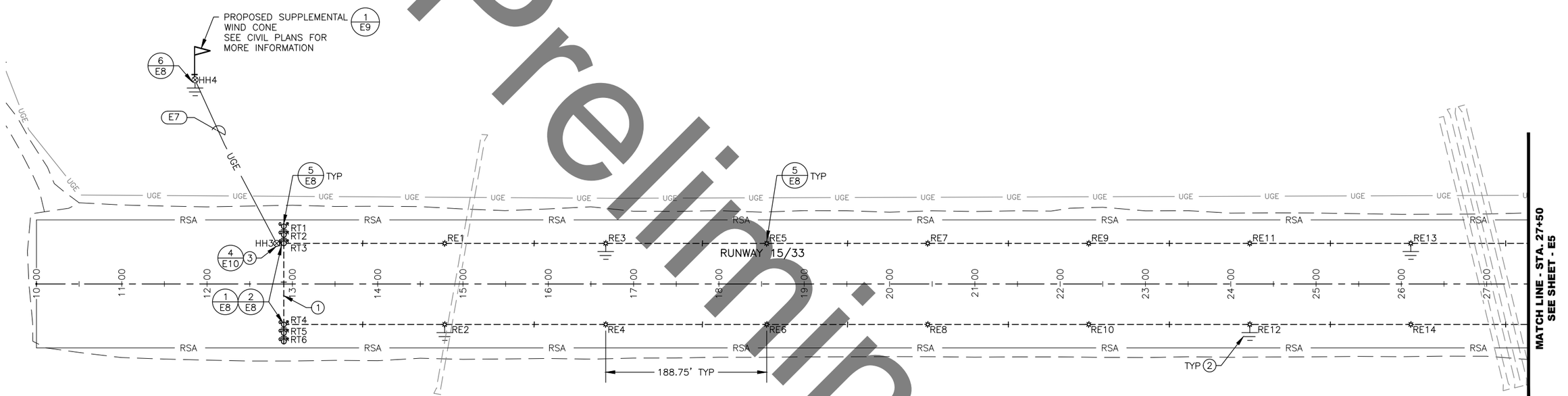

1 E4

AIRPORT LIGHTING PLAN – BOP TO STA 27+50

RUNWAY LIGHTING SCHEDULE				
POINT #	STATION	OFFSET	TYPE	REMARKS
RE1	14+78.60	47.50' LT	L-861	
RE2	14+78.60	47.50' RT	L-861	GROUND ROD
RE3	16+67.35	47.50' LT	L-861	GROUND ROD
RE4	16+67.35	47.50' RT	L-861	
RE5	18+56.10	47.50' LT	L-861	
RE6	18+56.10	47.50' RT	L-861	
RE7	20+44.85	47.50' LT	L-861	
RE8	20+44.85	47.50' RT	L-861	
RE9	22+33.60	47.50' LT	L-861	
RE10	22+33.60	47.50' RT	L-861	
RE11	24+22.35	47.50' LT	L-861	
RE12	24+22.35	47.50' RT	L-861	GROUND ROD
RE13	26+11.10	47.50' LT	L-861	GROUND ROD
RE14	26+11.10	47.50' RT	L-861	

THRESHOLD LIGHTING SCHEDULE				
POINT #	STATION	OFFSET	TYPE	REMARKS
RT1	12+90.00	67.50' LT	L-861SE	
RT2	12+90.00	57.50' LT	L-861SE	
RT3	12+90.00	47.50' LT	L-861SE	
RT4	12+90.00	47.50' RT	L-861SE	
RT5	12+90.00	57.50' RT	L-861SE	
RT6	12+90.00	67.50' RT	L-861SE	

HANDHOLE SCHEDULE				
POINT #	STATION	OFFSET	TYPE	REMARKS
HH3	12+81.61	47.500' LT	L-868	
HH4	11+85.96	239.176' LT	L-867	

SHEET NOTES:

1. CONDUIT CROSSINGS AT RUNWAYS, TAXIWAYS AND ACROSS THE APRON SHALL BE IN RMC. ALL OTHER CONDUIT SHALL BE IN HDPE UNLESS OTHERWISE NOTED.
2. PROVIDE GROUND ROD WITH EXOTHERMIC CONNECTION BONDED TO EGC AT INDICATED LIGHT BASE LOCATIONS.
3. 5KV PRIMARY LOOP TO INCLUDE HH3. PROVIDE AN ISOLATION TRANSFORMER FOR THE SUPPLEMENTAL WIND CONE, L-830, 100W.

GENERAL NOTES:

1. SEE SHEET E12 FOR CONDUIT SCHEDULE.

60' 30' 0 60' 120'

STATE OF ALASKA 49TH
Tyler R. Keene
EE-14401
REGISTERED PROFESSIONAL ENGINEER

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CHENEGA BAY AIRPORT
CHENEGA BAY, ALASKA
CHENEGA BAY AIRPORT LIGHTING IMPROVEMENTS
PROJECT No. CFAPT01021
AIP No. 3-02-0419-XXX-202X
AIRPORT LIGHTING PLAN – BOP TO STA 27+50

DATE: APRIL 2024

SHEET: E4 OF E14

Designed By: TN
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Date Revised: 4/16/2024 4:31 PM
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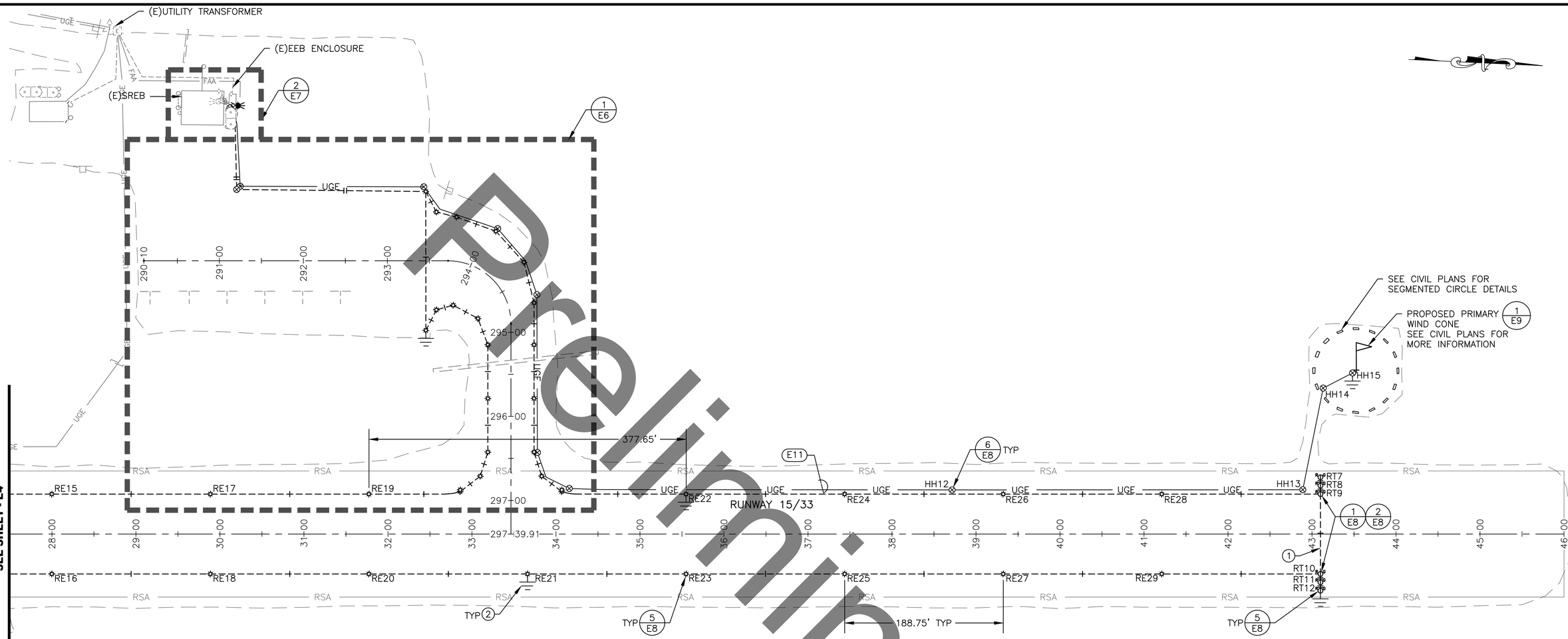
File Path and Name: \\crweng.com\projects\JobsData\30130.00 Talkeetna-chenega Bay Airport Lighting\00 CADD\01 Working Set\03 Electrical\01 Electrical\01 Chenega Bay\01021-C05-Electrical Plan.dwg



1
E5

AIRPORT LIGHTING PLAN – STA 27+50 TO EOP

RUNWAY LIGHTING SCHEDULE

POINT #	STATION	OFFSET	TYPE	REMARKS
RE15	27+99.85	47.50' LT	L-861	
RE16	27+99.85	47.50' RT	L-861	
RE17	29+88.60	47.50' LT	L-861	
RE18	29+88.60	47.50' RT	L-861	
RE19	31+77.35	47.50' LT	L-861	
RE20	31+77.35	47.50' RT	L-861	
RE21	33+66.10	47.50' RT	L-861	GROUND ROD
RE22	35+54.85	47.50' LT	L-861	GROUND ROD
RE23	35+54.85	47.50' RT	L-861	
RE24	37+43.60	47.50' LT	L-861	
RE25	37+43.60	47.50' RT	L-861	
RE26	39+32.35	47.50' LT	L-861	
RE27	39+32.35	47.50' RT	L-861	
RE28	41+21.10	47.50' LT	L-861	
RE29	41+21.10	47.50' RT	L-861	

THRESHOLD LIGHTING SCHEDULE

POINT #	STATION	OFFSET	TYPE	REMARKS
RT7	43+10.00	67.50' LT	L-861SE	
RT8	43+10.00	57.50' LT	L-861SE	
RT9	43+10.00	47.50' LT	L-861SE	
RT10	43+10.00	47.50' RT	L-861SE	
RT11	43+10.00	57.50' RT	L-861SE	
RT12	43+10.00	67.50' RT	L-861SE	GROUND ROD

HANDHOLE SCHEDULE

POINT #	STATION	OFFSET	TYPE	REMARKS
HH12	38+71.53	52.477' LT	L-868	
HH13	42+88.97	52.648' LT	L-868	
HH14	43+13.24	173.586' LT	L-867	
HH15	43+48.18	191.545' LT	L-867	

SHEET NOTES:

1. CONDUIT CROSSINGS AT RUNWAYS, TAXIWAYS AND ACROSS THE APRON SHALL BE IN RMC. ALL OTHER CONDUIT SHALL BE IN HDPE UNLESS OTHERWISE NOTED.
2. PROVIDE GROUND ROD WITH EXOTHERMIC CONNECTION BONDED TO EGC AT INDICATED LIGHT BASE LOCATIONS.

GENERAL NOTES:

1. SEE SHEET E12 FOR CONDUIT SCHEDULE.

60' 30' 0 60' 120'

STATE OF ALASKA 49TH Tyler R. Keene EE-14401 REGISTERED PROFESSIONAL ENGINEER

PLANS DEVELOPED BY:
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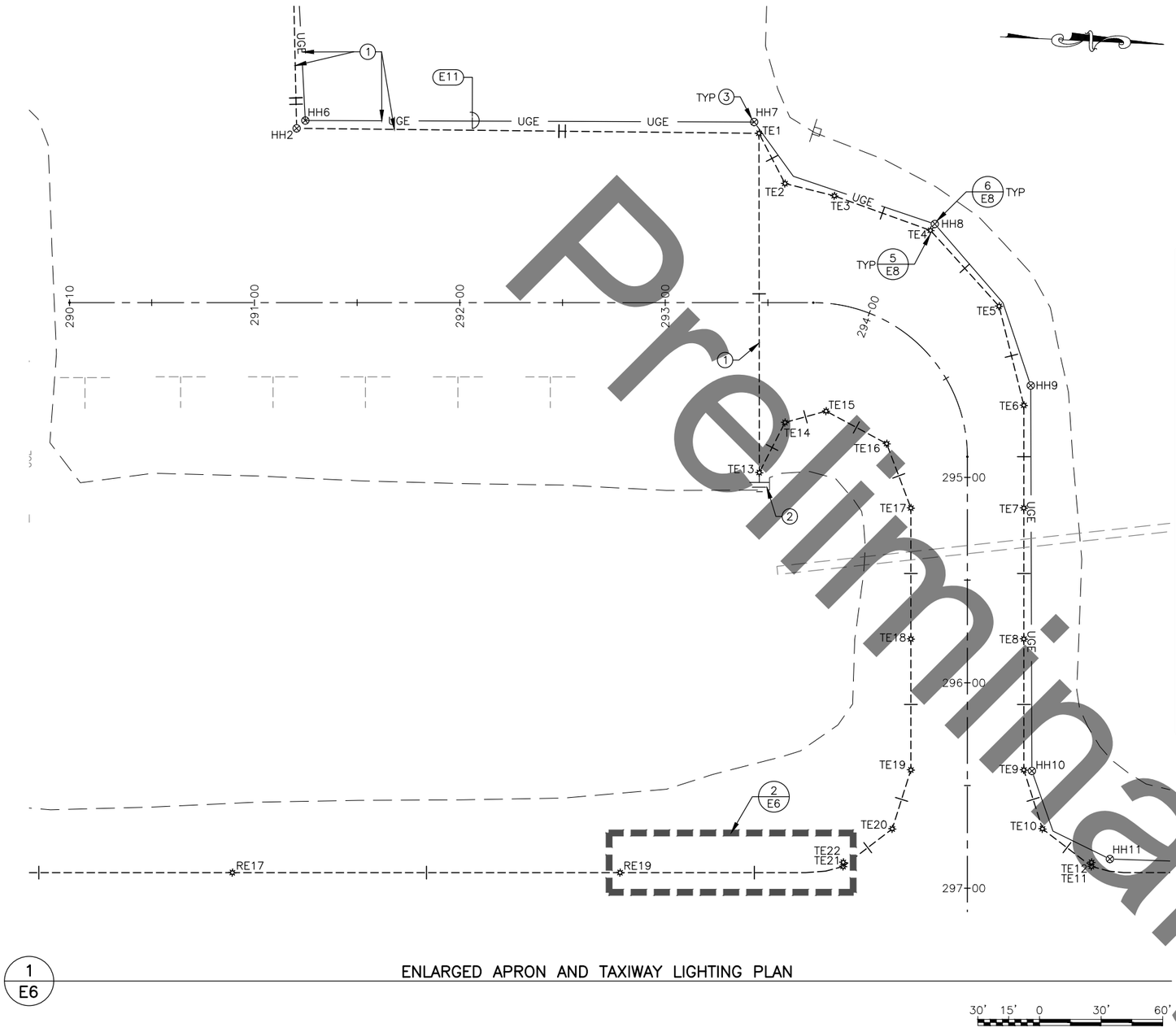
CHENEGA BAY AIRPORT
CHENEGA BAY, ALASKA
CHENEGA BAY AIRPORT LIGHTING IMPROVEMENTS
PROJECT No. CFAPT01021
AIP No. 3-02-0419-XXX-202X
AIRPORT LIGHTING PLAN – STA 27+50 TO EOP

DATE: APRIL 2024

SHEET: E5 OF E14

Designed By: TN
Drawn By: SS
Checked By: WS

Date Revised:
Layout Name: E5
File Path and Name: J:\JobsData\30130.00 Talkeetna-Chenega Bay Airport Lighting\00 CADD\01 Working Set\03 Electrical\01 Chenega Bay\01021-C05-Electrical Plan.dwg 4/18/2024 4:31 PM



1 E6 ENLARGED APRON AND TAXIWAY LIGHTING PLAN

GENERAL NOTES:

1. SEE SHEET E12 FOR CONDUIT SCHEDULE.

SHEET NOTES:

(1) CONDUIT CROSSINGS AT RUNWAYS, TAXIWAYS AND ACROSS THE APRON SHALL BE IN RMC. ALL OTHER CONDUIT SHALL BE IN HDPE UNLESS OTHERWISE NOTED.

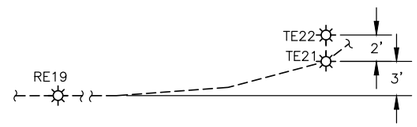
(2) PROVIDE GROUND ROD WITH EXOTHERMIC CONNECTION BONDED TO EGC AT INDICATED LIGHT BASE LOCATIONS.

TAXIWAY LIGHTING SCHEDULE

POINT #	STATION	OFFSET	TYPE	REMARKS
TE1	293+45.66	82.43' LT	L-861T	
TE2	293+58.30	57.98' LT	L-861T	
TE3	293+78.13	52.40' LT	L-861T	
TE4	294+07.94	49.05' LT	L-861T	
TE5	294+38.84	41.38' LT	L-861T	
TE6	294+71.97	30.51' LT	L-861T	
TE7	295+14.91	27.50' LT	L-861T	
TE8	295+78.66	27.50' LT	L-861T	
TE9	296+42.41	27.50' LT	L-861T	
TE10	296+71.10	36.55' LT	L-861T	
TE11	296+89.41	60.43' LT	L-861T	
TE12	296+87.41	60.43' RT	L-861T	
TE13	293+45.80	82.74' RT	L-861T	GROUND ROD
TE14	293+58.30	58.35' RT	L-861T	
TE15	293+92.55	51.97' RT	L-861T	
TE16	294+76.77	38.73' RT	L-861T	
TE17	295+14.91	27.50' RT	L-861T	
TE18	295+78.66	27.50' RT	L-861T	
TE19	296+42.41	27.50' RT	L-861T	
TE20	296+71.10	36.55' RT	L-861T	
TE21	296+89.41	60.43' RT	L-861T	
TE22	296+87.40	60.43' RT	L-861T	

HANDHOLE SCHEDULE

POINT #	STATION	OFFSET	TYPE	REMARKS
HH2	291+20.54	84.854' LT	L-868	
HH6	291+24.78	88.652' LT	L-868	
HH7	293+43.31	87.926' LT	L-868	
HH8	294+08.19	52.797' LT	L-868	
HH9	294+66.18	36.377' LT	L-868	
HH10	296+42.91	31.424' LT	L-868	
HH11	296+85.78	69.389' LT	L-868	



NOTE: PROVIDE SIMILAR LAYOUT FOR TE11 AND TE12.

2 E6 RUNWAY AND TAXIWAY LIGHTING ALIGNMENT DETAIL

SCALE: NOT TO SCALE

STATE OF ALASKA 49TH — Tyler R. Keene EE-14401 — REGISTERED PROFESSIONAL ENGINEER

PLANS DEVELOPED BY:
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CHENEGA BAY AIRPORT
CHENEGA BAY, ALASKA
CHENEGA BAY AIRPORT LIGHTING IMPROVEMENTS
PROJECT No. CFAPT01021
AIP No. 3-02-0419-XXX-202X
ENLARGED APRON AND TAXIWAY AIRPORT LIGHTING PLAN

DATE: APRIL 2024

SHEET: E6 OF E14

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Date Revised: 4/18/2024 4:31 PM
Layout Name: E6
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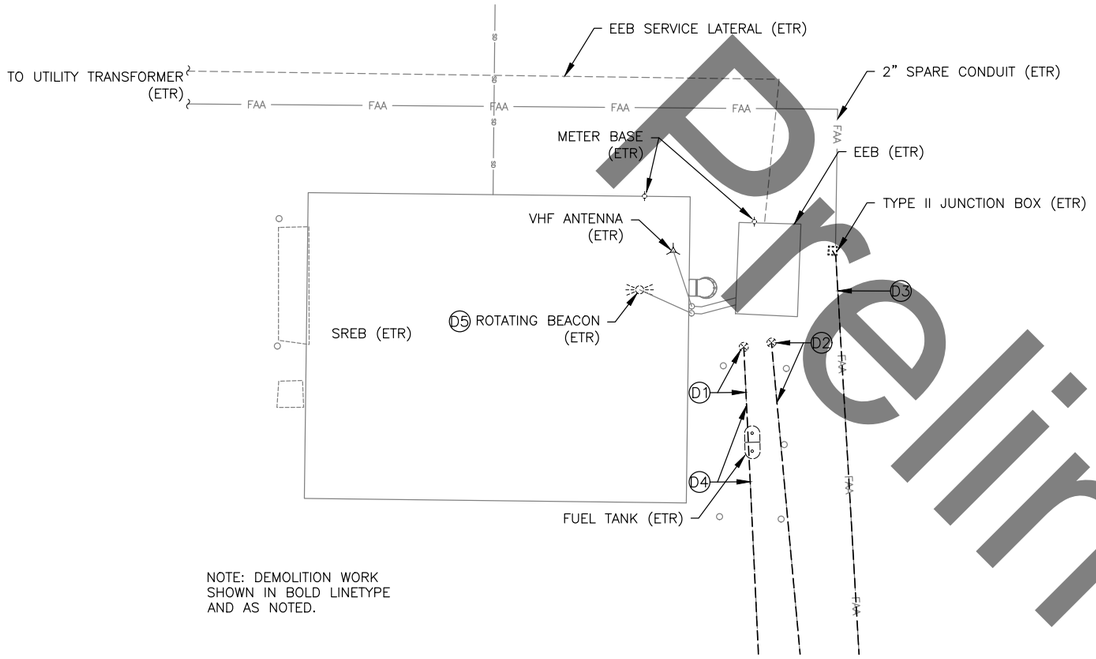
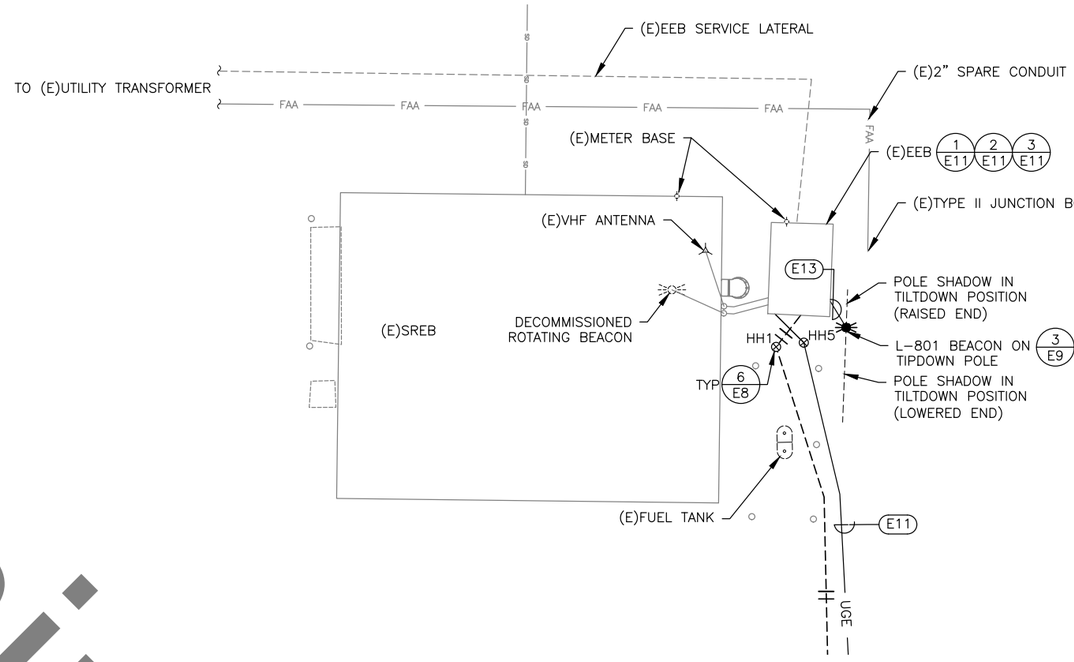


1 E7 ENLARGED ELECTRICAL DEMOLITION PLAN

10' 5' 0 10' 20'



2 E7 ENLARGED ELECTRICAL PLAN

10' 5' 0 10' 20'

DEMOLITION NOTES:

D1 REMOVE RUNWAY, TAXIWAY AND THRESHOLD LIGHTING WITH ALL ASSOCIATED CONDUIT, HANDHOLES, AND 5KV CIRCUITS WITHIN PROJECT LIMITS, UNLESS OTHERWISE INDICATED AS EXISTING TO REMAIN.

D2 REMOVE CONDUCTORS, CONDUIT AND ALL ASSOCIATED HANDHOLES TO WIND CONE FROM PANEL B LOCATED IN THE EEB, UNLESS OTHERWISE INDICATED AS EXISTING TO REMAIN.

D3 REMOVE ABANDONED SPARE 2" CONDUIT ASSOCIATED WITH PAPI AND REIL ROUGH-IN (PAPI AND REIL EQUIPMENT NOT INSTALLED). CONDUIT ROUTING MAY VARY FROM THAT SHOWN.

D4 CONDUIT RUN BELOW FUEL TANK SHALL BE ABANDONED IN PLACE. CUT AT EACH END, WHERE ACCESSIBLE.

D5 DISCONNECT ROTATING BEACON CIRCUIT IN LCP, AS INDICATED ON THE ONE-LINE DIAGRAM. ROTATING BEACON TO REMAIN.

DEMOLITION LEGEND:

CONDUIT REMOVAL ---------

LIGHT, HANDHOLE, JUNCTION BOX REMOVAL ×

GENERAL NOTES:

1. UNDERGROUND UTILITIES IN THESE DRAWINGS ARE SHOWN IN GENERAL LOCATIONS ONLY. OTHER UTILITIES MAY EXIST THROUGHOUT THE PROJECT AREA. DEPTHS OF MOST ARE UNKNOWN. LOCATE UTILITIES IN THE VICINITY PRIOR TO EXCAVATION AND DEMO.
2. SEE SHEET E11 FOR EEB PLAN AND E12 FOR CONDUIT SCHEDULE.

HANDHOLE SCHEDULE				
POINT #	STATION	OFFSET	TYPE	REMARKS
HH1	291+12.50	181.968' LT	L-868	
HH5	291+16.16	182.531' LT	L-868	

STATE OF ALASKA 49TH REGISTERED PROFESSIONAL ENGINEER Tyler R. Keene EE-14401

PLANS DEVELOPED BY:
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(907) 562-3252
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BY	DATE	REVISION

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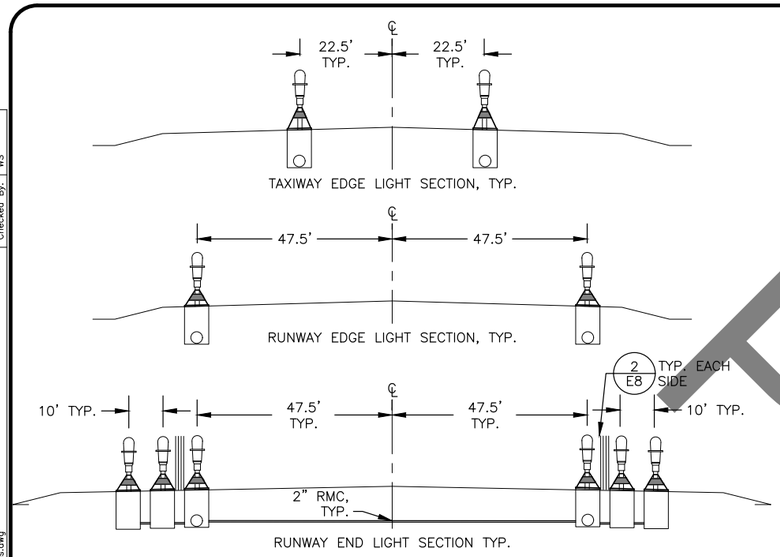
CENTRAL REGION
4111 AVIATION AVE., ANCHORAGE ALASKA 99502
PHONE (907) 269-0590

CHENEGA BAY AIRPORT
CHENEGA BAY, ALASKA
CHENEGA BAY AIRPORT LIGHTING IMPROVEMENTS
PROJECT No. CFAPT01021
AIP No. 3-02-0419-XXX-202X
ENLARGED ELECTRICAL SITE PLAN

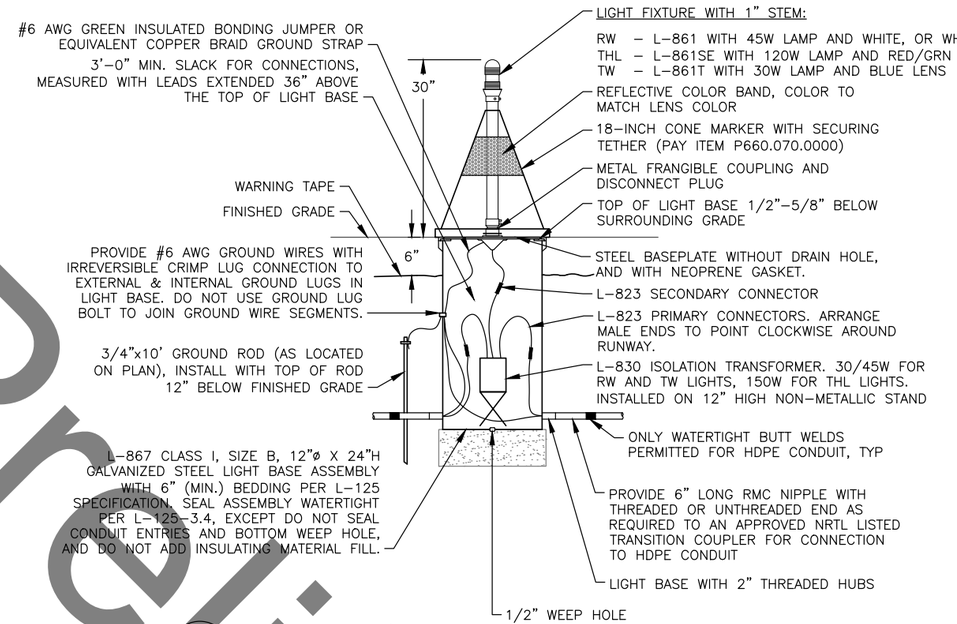
DATE: APRIL 2024
SHEET: E7 OF E14

Designed By: TN
Drawn By: SS
Checked By: WS
Date Revised: 4/18/2024 4:31 PM
Layout Name: E7
File Path and Name: \\crweng.com\projects\JobsData\30130.00 Talkeetna-chenega Bay Airport Lighting\00 CADD\01 Working Set\03 Electrical\01 Electrical\01 Chenega Bay\01021-C05-Electrical Plan.dwg



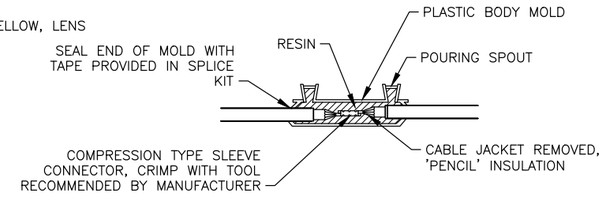
1 E8 **RUNWAY AND TAXIWAY LIGHTING SECTIONS**

SCALE: NOT TO SCALE



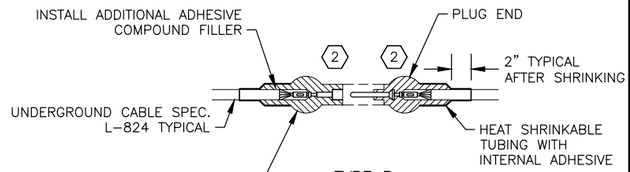
5 E8 **RUNWAY/TAXIWAY EDGE LIGHT BASE DETAIL**

SCALE: NOT TO SCALE



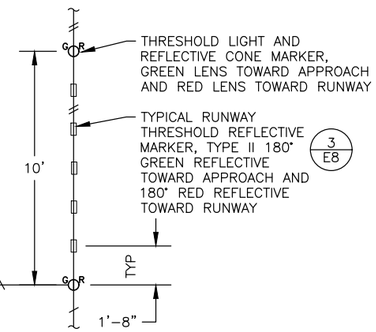
TYPE A

FOR SPLICES IN HOMERUNS AND FOR EXTENSIONS TO EXISTING CABLES ONLY



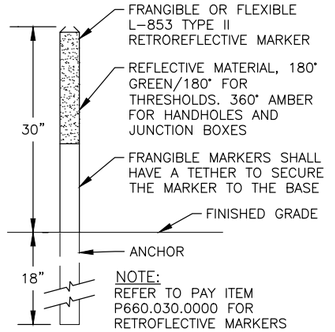
TYPE B

FOR SPLICES AT JUNCTION OF HOMERUN WITH LOOP CIRCUIT



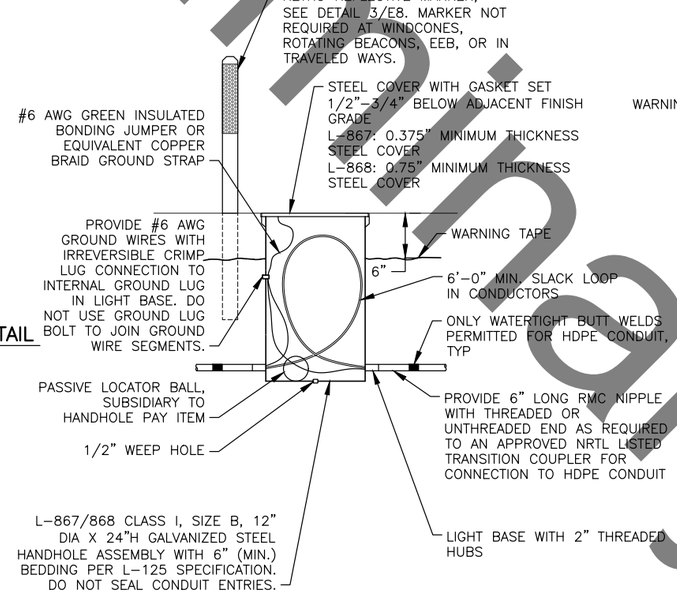
2 E8 **THRESHOLD MARKER DETAIL**

SCALE: NOT TO SCALE



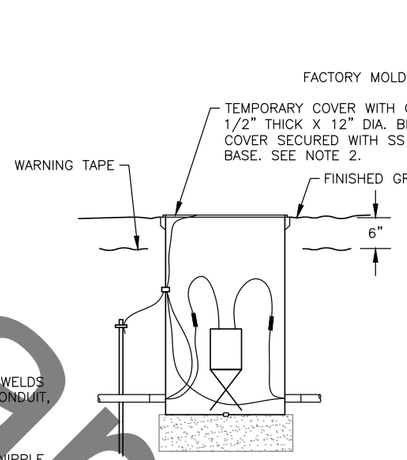
3 E8 **RETROREFLECTIVE MARKER DETAIL**

SCALE: NOT TO SCALE



6 E8 **L-867/868 HANDHOLE DETAIL**

SCALE: NOT TO SCALE

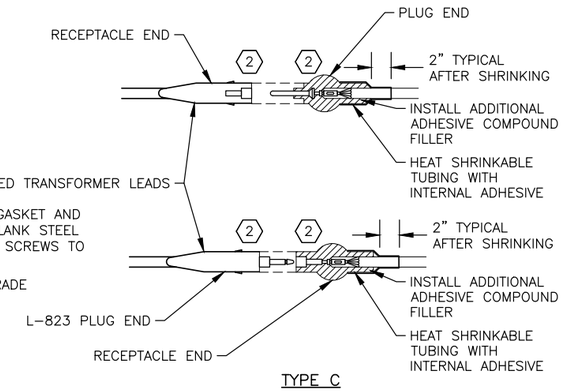


7 E8 **RW/TW EDGE LIGHT BASE WITH TEMPORARY COVER DETAIL**

SCALE: NOT TO SCALE

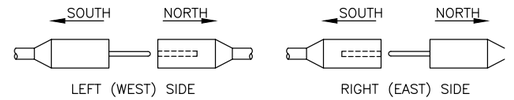
NOTES:

1. SEE DETAIL 5/E8 FOR ADDITIONAL REQUIREMENTS.
2. PROVIDE TEMPORARY COVERS OVER LIGHT BASES AS REQUIRED DURING PHASED CONSTRUCTION IAW THE CONSTRUCTION SAFETY AND PHASING PLAN (CSPP)



TYPE C

FOR SPLICES AT RUNWAY LIGHTS



ORIENTATION OF L-823 CABLE CONNECTION IN LIGHT BASE DETAIL

NOTES:

1. INSIDE DIAMETER OF CONNECTOR SHALL PROPERLY MATCH THE OUTSIDE DIAMETER OF CABLE. CONNECTOR SHALL BE SUPPLIED TO MATCH CABLE PER MANUFACTURER'S INSTRUCTIONS.
2. WRAP WITH A MINIMUM OF ONE LAYER OF RUBBER OR SYNTHETIC RUBBER TAPE AND ONE LAYER OF PLASTIC TAPE, ONE-HALF LAPPED, EXTENDING AT LEAST 1.5" ON EACH SIDE OF JOINT. SEAL THE TAPED JOINT AT SEPARABLE CONNECTORS WITH A 16-INCH LENGTH OF HEAT-SHRINK TUBING WITH INTERNAL ADHESIVE ONLY ON THE LAST THREE INCHES AT EACH END, TO READILY ALLOW RE-ENTRY.

8 E8 **L-823 5KV CABLE CONNECTOR DETAILS**

SCALE: NOT TO SCALE

NOTES:

1. CONDUIT SHALL BE INSTALLED WITH CROWN TO DRAIN TO LIGHT BASES AS SHOWN.
2. IF 'S' IS LESS THAN 20', OR IF 0.25% SLOPE CAN BE MAINTAINED IN ONE DIRECTION DUE TO SLOPE OF GRADE, LAY CONDUIT STRAIGHT WITHOUT CROWN BETWEEN BASES/HANDHOLES.

4 E8 **TYPICAL CONDUIT DRAINAGE DETAIL**

SCALE: NOT TO SCALE

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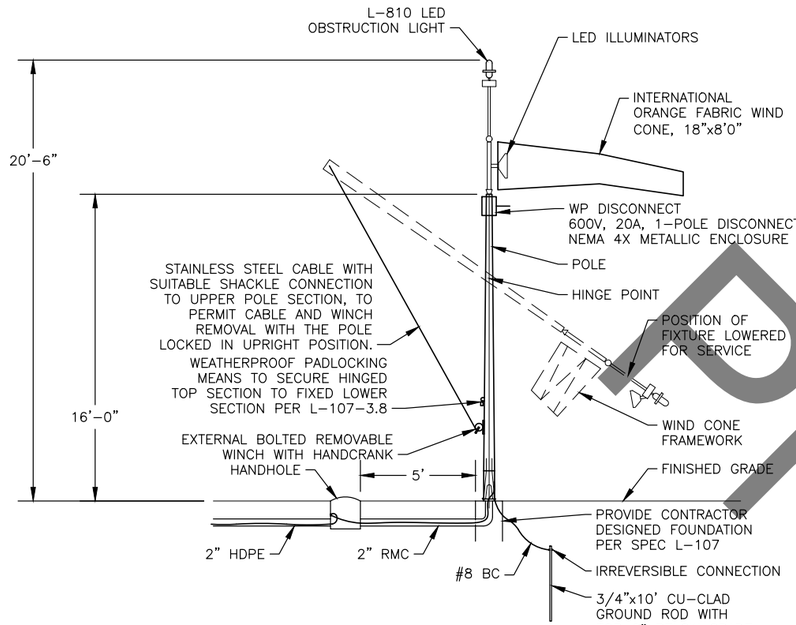
CHENEGA BAY AIRPORT
CHENEGA BAY, ALASKA
CHENEGA BAY AIRPORT LIGHTING IMPROVEMENTS
PROJECT No. CFAPT01021
AIP No. 3-02-0419-XXX-202X
ELECTRICAL DETAILS

DATE: APRIL 2024

SHEET: E8 OF E14

Designed By: TN
Drawn By: SS
Checked By: WS

Date Revised: 4/19/2024 10:08 AM
Layout Name: E8
File Path and Name: \\crweng.com\projects\JobsData\30130.00 Talkeetna-chenega Bay Airport Lighting\00 CADD\01 Working Set\03 Electrical\01 Chenega Bay\01021-C05-Electrical Details.dwg

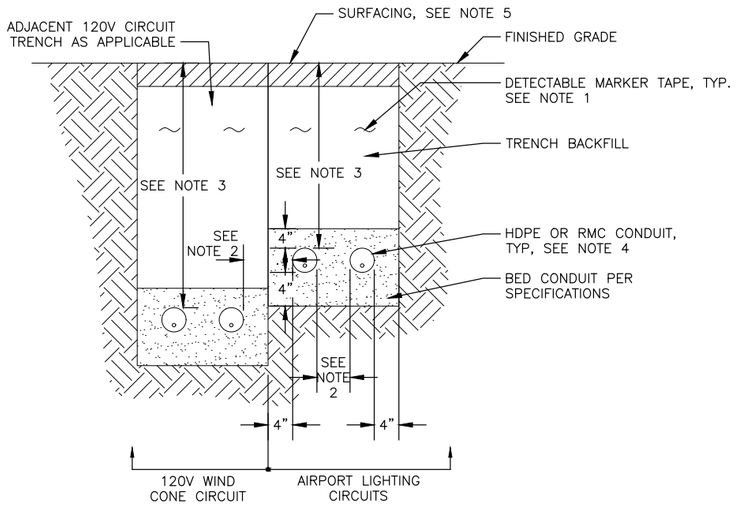


1 E9 — L-807 LIGHTED WIND CONE DETAIL

SCALE: NOT TO SCALE

NOTES:

1. PRIMARY WIND CONE: FAA TYPE L-807, STYLE I-B, SIZE 1. 120V WITH LED LAMPS. HINGED TIP-DOWN RIGID POLE WITH ANCHOR-BOLTED BASE.
2. SUPPLEMENTAL WIND CONE: FAA TYPE L-807, STYLE I-B, SIZE 1. 2.8A-6.6A WITH LED LAMPS AND 100W L-830 XFMR. HINGED TIP-DOWN RIGID POLE WITH ANCHOR-BOLTED BASE.

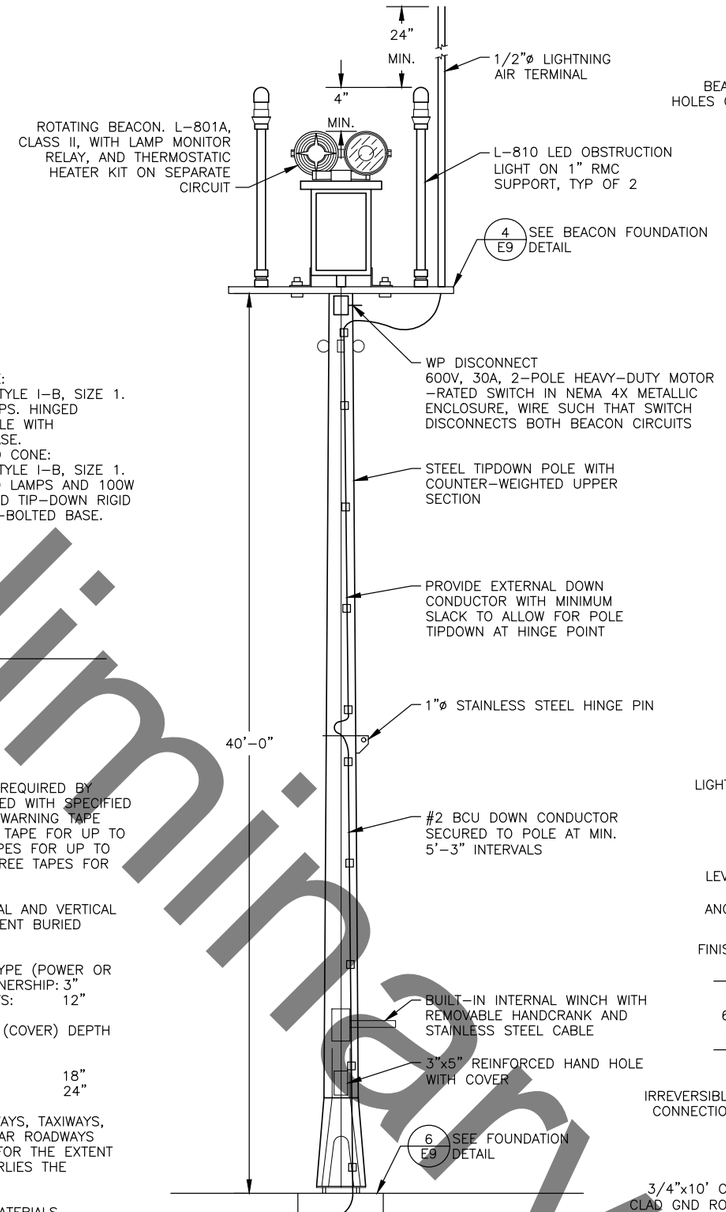


2 E9 — TYPICAL TRENCH SECTION

SCALE: NOT TO SCALE

NOTES:

1. PROVIDE TRENCH WIDTH AS REQUIRED BY NUMBER OF CONDUITS PLACED WITH SPECIFIED SPACING, AND BURIED LINE WARNING TAPE COVERAGE TO INCLUDE ONE TAPE FOR UP TO 18" TRENCH WIDTH, TWO TAPES FOR UP TO 30" TRENCH WIDTH, AND THREE TAPES FOR UP TO 42" TRENCH WIDTH.
2. PROVIDE MINIMUM HORIZONTAL AND VERTICAL SEPARATION BETWEEN ADJACENT BURIED CIRCUITS AS FOLLOWS:
   - CIRCUITS OF THE SAME TYPE (POWER OR SIGNAL) UNDER SAME OWNERSHIP: 3"
   - AIRPORT LIGHTING CIRCUITS: 12"
3. PROVIDE A MINIMUM BURIAL (COVER) DEPTH AS FOLLOWS:
   - AIRPORT LIGHTING CKTS: 18"
   - ALL OTHER CKTS: 24"
4. CIRCUITS THAT CROSS RUNWAYS, TAXIWAYS, APRONS OR OTHER VEHICULAR ROADWAYS SHALL BE PLACED IN RMC FOR THE EXTENT OF THE CIRCUIT THAT UNDERLIES THE TRAVELED WAY.
5. MATCH EXISTING SURFACE MATERIALS.

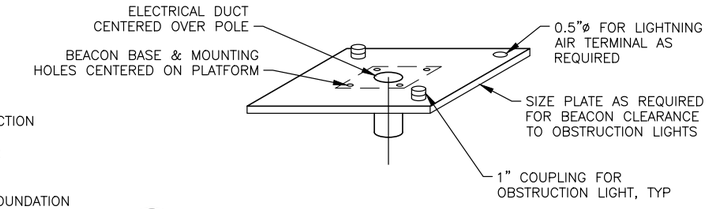


NOTES:

1. POLE-MOUNTED L-801A ASSEMBLY SHALL BE RATED FOR 120 MPH BASIC WIND SPEED (3-SECOND GUST), EXPOSURE CATEGORY C, AND IMPORTANCE FACTOR III, IN ACCORDANCE WITH IBC.
2. L-801A BEAM DEFLECTION AT 45MPH WIND SHALL BE LESS THAN 2 DEGREES.

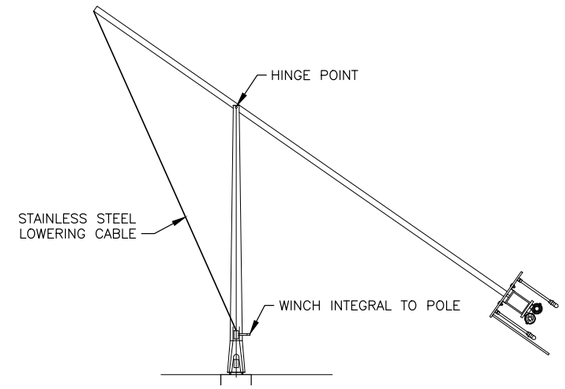
3 E9 — ROTATING BEACON DETAIL, RAISED

SCALE: NOT TO SCALE



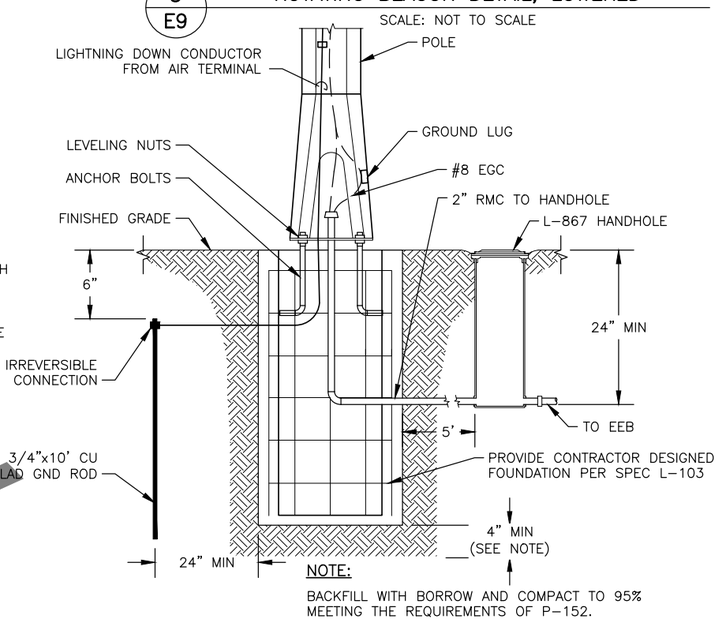
4 E9 — BEACON PLATFORM DETAIL

SCALE: NOT TO SCALE



5 E9 — ROTATING BEACON DETAIL, LOWERED

SCALE: NOT TO SCALE



NOTE:

BACKFILL WITH BORROW AND COMPACT TO 95% MEETING THE REQUIREMENTS OF P-152.

6 E9 — ROTATING BEACON FOUNDATION

SCALE: NOT TO SCALE

Designed By: TN
Drawn By: SS
Checked By: WS

Date Revised: 4/19/2024 10:08 AM
Layout Name: E9
File Path and Name: \\crweng.com\projects\JobsData\30130.00 Talkeetna-chenega Bay Airport Lighting\00 CADD\01 Working Set\03 Electrical\01 Chenega Bay\01021-C05-Electrical Details.dwg

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CHENEGA BAY AIRPORT
CHENEGA BAY, ALASKA
CHENEGA BAY AIRPORT LIGHTING IMPROVEMENTS
PROJECT No. CFAPT01021
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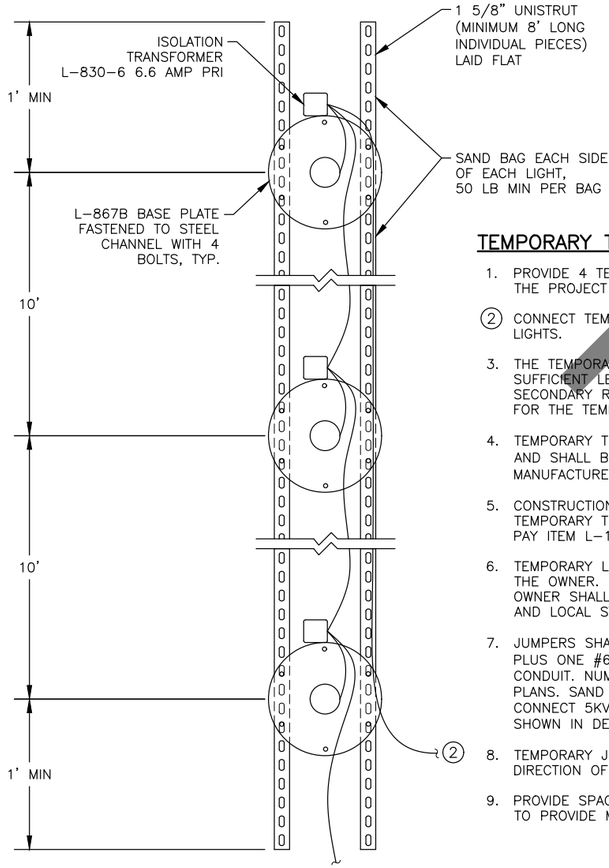
ELECTRICAL DETAILS

DATE: APRIL 2024

SHEET: E9 OF E14

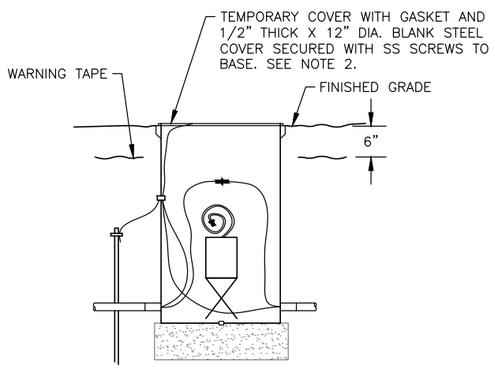


TEMPORARY THRESHOLD LIGHT BAR NOTES:

1. PROVIDE 4 TEMPORARY THRESHOLD LIGHT BARS IN ACCORDANCE WITH THE PROJECT SAFETY PLAN AND AS DIRECTED BY THE ENGINEER.
2. CONNECT TEMPORARY THRESHOLD LIGHT BARS TO TEMPORARY EDGE LIGHTS.
3. THE TEMPORARY LIGHT FIXTURES SHALL HAVE CORD SETS OF SUFFICIENT LENGTH TO ALLOW CONNECTION TO TRANSFORMER SECONDARY REMOTE FROM THE AREA UNDERNEATH THE L-867B LID FOR THE TEMPORARY THRESHOLD.
4. TEMPORARY THRESHOLD LIGHT FIXTURES SHALL BE L-861SE (120W) AND SHALL BE THE SAME HEIGHT: 14". INSTALL AND AIM PER MANUFACTURER'S INSTRUCTIONS.
5. CONSTRUCTION, INSTALLATION, MAINTENANCE AND DEMOLITION OF THE TEMPORARY THRESHOLD LIGHT BARS AND JUMPERS IS SUBSIDIARY TO PAY ITEM L-125.180.0000.
6. TEMPORARY LIGHTING SYSTEM SHALL BE SALVAGED AND OFFERED TO THE OWNER. EQUIPMENT DEEMED OF NO SALVAGE VALUE BY THE OWNER SHALL BE DISPOSED OF IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL STATUES.
7. JUMPERS SHALL CONSIST OF #8 AWG, 5KV AIRPORT CABLE, TYPE C, PLUS ONE #6 AWG BARE COPPER GROUND INSTALLED IN HDPE CONDUIT. NUMBER OF CONDUCTORS INDICATED BY HASH MARKS ON PLANS. SAND BAG CONDUIT 10' OC, 50 LB MINIMUM PER SAND BAG. CONNECT 5KV AIRPORT CABLE WITH FAA L-823 CONNECTORS AS SHOWN IN DETAIL 8/E8.
8. TEMPORARY JUMPERS SHALL BE SALVAGED OR DISPOSED OF AT THE DIRECTION OF THE ENGINEER.
9. PROVIDE SPACERS BETWEEN UNISTRUT AND BASE PLATE AS REQUIRED TO PROVIDE MINIMUM BENDING. RADIUS FOR CORD SETS.

1 / E10 — TEMPORARY THRESHOLD LIGHT BAR

SCALE: NOT TO SCALE

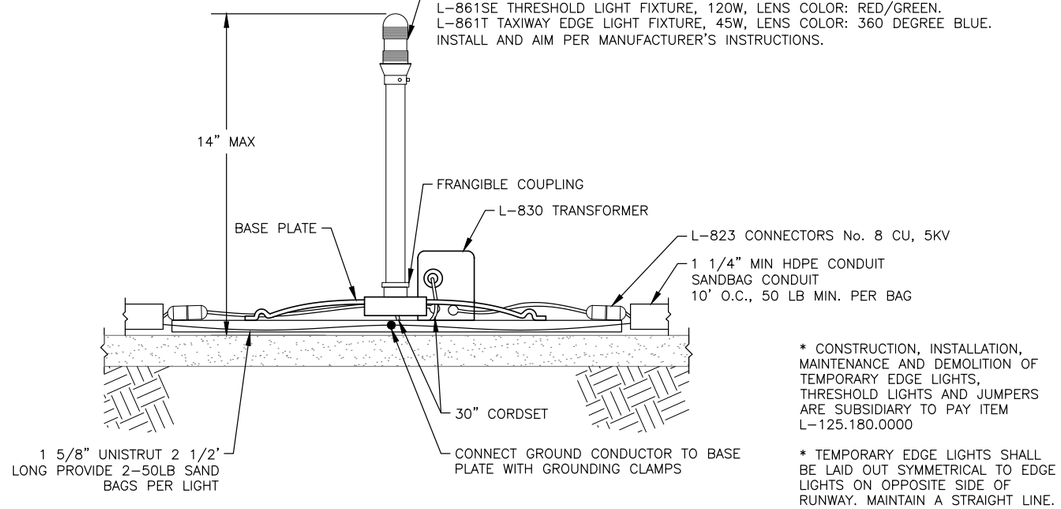


NOTES:

1. SEE DETAIL 5/E10 FOR ADDITIONAL REQUIREMENTS.
2. PROVIDE TEMPORARY COVERS OVER LIGHT BASES AS REQUIRED DURING PHASED CONSTRUCTION IAW THE CONSTRUCTION SAFETY AND PHASING PLAN (CSPP)

2 / E10 — RW/TW EDGE LIGHT BASE DISCONNECTED WITH TEMPORARY COVER DETAIL

SCALE: NOT TO SCALE



* CONSTRUCTION, INSTALLATION, MAINTENANCE AND DEMOLITION OF TEMPORARY EDGE LIGHTS, THRESHOLD LIGHTS AND JUMPERS ARE SUBSIDIARY TO PAY ITEM L-125.180.0000

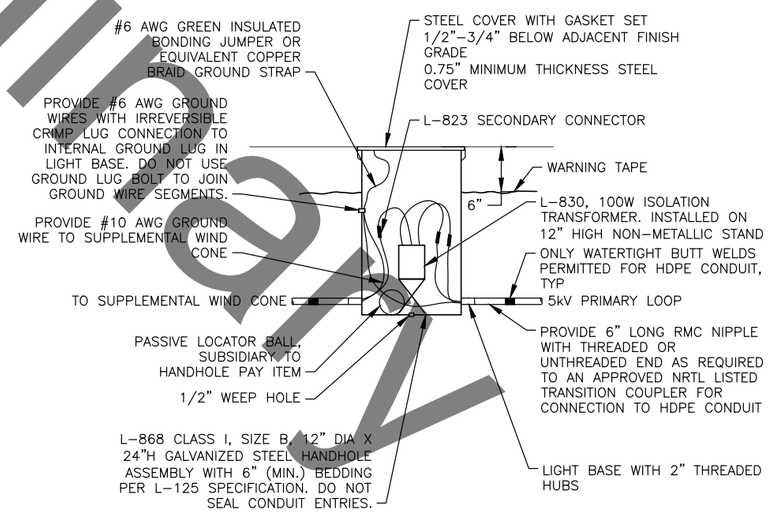
* TEMPORARY EDGE LIGHTS SHALL BE LAID OUT SYMMETRICAL TO EDGE LIGHTS ON OPPOSITE SIDE OF RUNWAY. MAINTAIN A STRAIGHT LINE. MATCH EXISTING LENS COLOR.

NOTES:

1. ADD SPACERS BETWEEN STEEL CHANNEL AND BASE PLATE AS REQUIRED TO PROVIDE MINIMUM BENDING RADIUS FOR CORDSET.
2. COVER TEMPORARY LIGHTING CONDUIT WITH CASC FOR AREAS WHERE HAULING OPERATIONS OR AIRCRAFT OPERATIONS ARE EXPECTED TO CROSS THE CONDUIT TO AVOID DAMAGE TO THE CONDUIT.

3 / E10 — TEMPORARY RUNWAY EDGE LIGHT DETAIL

SCALE: NOT TO SCALE



4 / E10 — L-868 HANDHOLE DETAIL WITH ISOLATION XFRM

SCALE: NOT TO SCALE

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CHENEGA BAY AIRPORT
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PROJECT No. CFAPT01021
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DATE: APRIL 2024

SHEET: E10 OF E14

Designed By: TN
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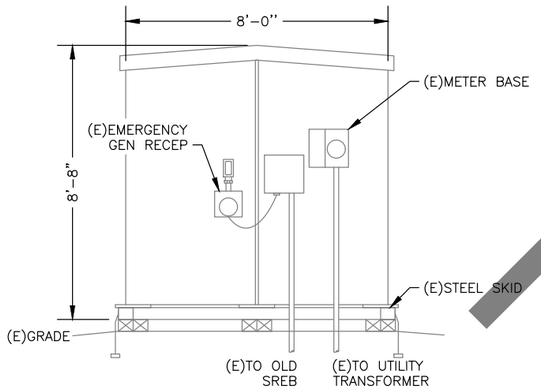
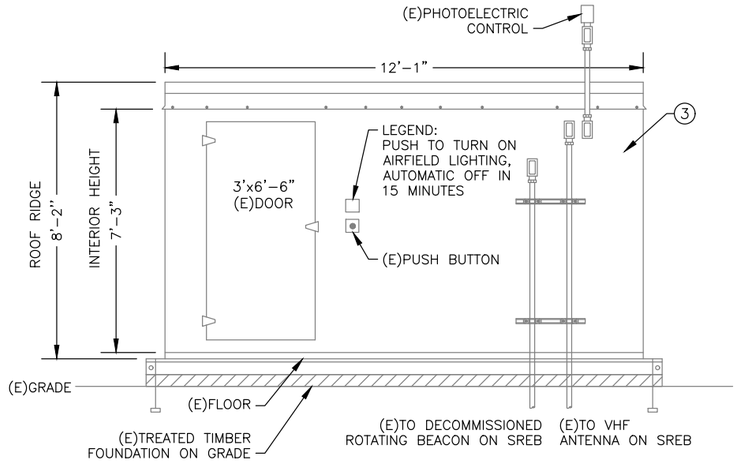


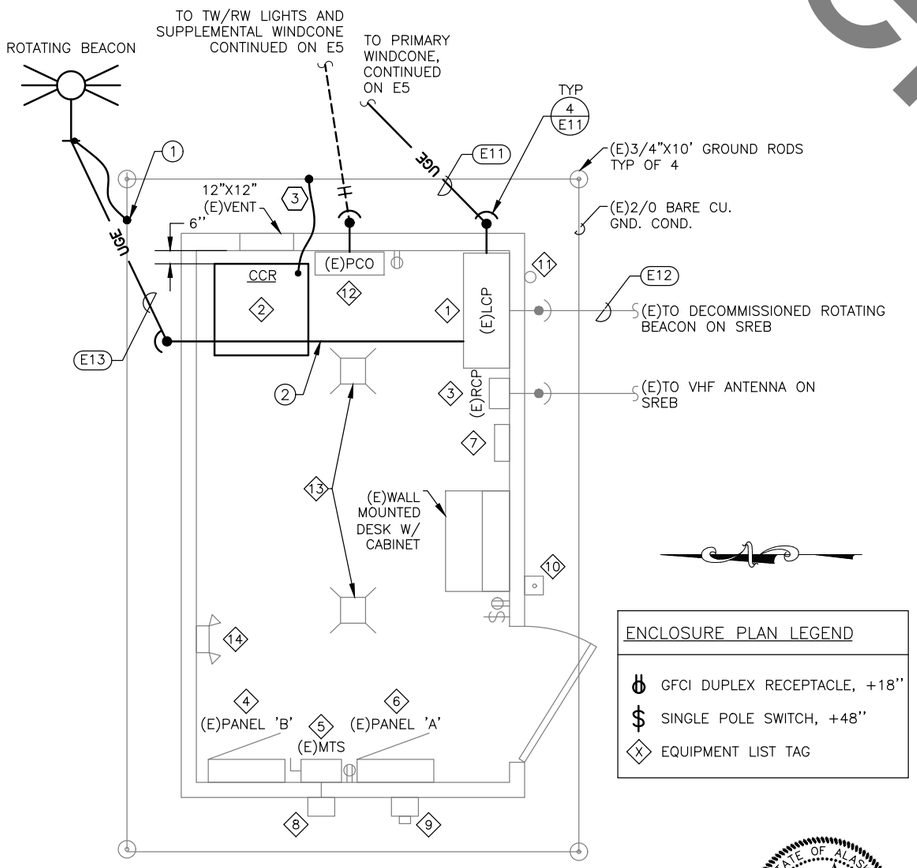
1 E11 (E)EEB WEST END ELEVATION

SCALE: NOT TO SCALE



2 E11 (E)EEB SOUTH SIDE ELEVATION

SCALE: NOT TO SCALE

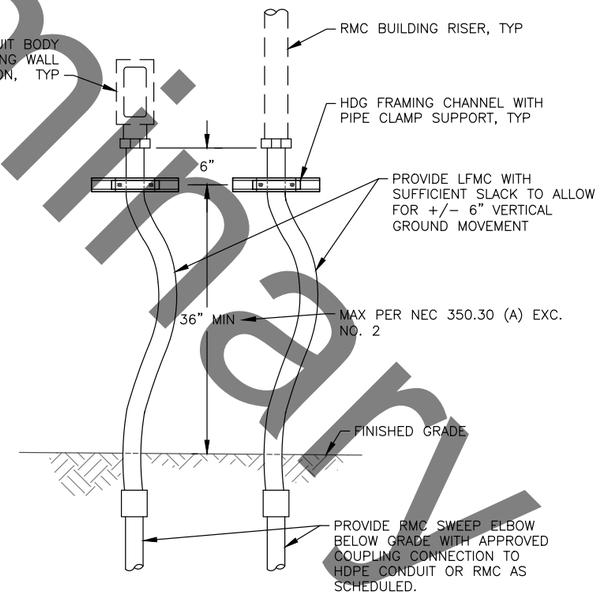


3 E11 (E)EEB PLAN DETAIL

SCALE: NOT TO SCALE

ENCLOSURE PLAN LEGEND

- GFCI DUPLEX RECEPTACLE, +18"
- SINGLE POLE SWITCH, +48"
- EQUIPMENT LIST TAG



4 E11 FLEXIBLE CONDUIT RISER DETAIL

SCALE: NOT TO SCALE

GENERAL NOTES:

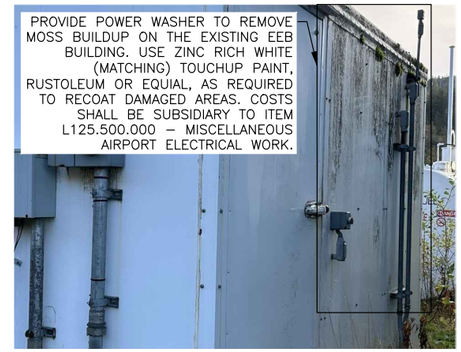
1. INFORMATION SHOWN ON THE DRAWINGS IS TAKEN FROM A NON-DESTRUCTIVE WALK THROUGH OF THE AIRPORT AND AS-BUILT DRAWINGS. THERE IS NO GUARANTEE TO THE ACCURACY OF THE INFORMATION SHOWN. CONTRACTOR SHALL FIELD VERIFY ALL ITEMS SCHEDULED FOR DEMOLITION PRIOR TO START OF WORK.
2. EXISTING INSTALLATION SHOWN FADED WITH NEW WORK IN BOLD LINE TYPE AS NOTED.
3. SEE SHEET E12 FOR CIRCUIT SCHEDULE.
4. EXTERIOR CONDUIT PENETRATIONS TO EEB SHALL NOT BE HIGHER THAN CONNECTED INTERIOR EQUIPMENT, AND SHALL BE SEALED VAPOR-TIGHT.

SHEET NOTES:

1. EXOTHERMIC CONNECTION BONDED TO GROUND RING AROUND EEB.
2. ROUTE CONDUIT FROM EXISTING LCP TO NEW ROTATING BEACON ON CEILING OF EXISTING EEB AND PENETRATE WALL ADJACENT TO THE NEW ROTATING BEACON LOCATION.
3. REMOVE MOSS AND REFINISH EEB EXTERIOR AS INDICATED IN DETAIL 5/E11

ELECTRICAL EQUIPMENT SCHEDULE

1. (E)LIGHTING CONTROL PANEL. SEE SHEET E14 FOR REFERENCE DETAILS.
2. FAA TYPE L-828 CONSTANT CURRENT REGULATOR (CCR), 7.5KW, DRY-TYPE, 240VAC/19A INPUT, 120V CONTROL, 3-STEP/6.6A OUTPUT. REF. TO SPEC L125.
3. FAA TYPE L-854 RADIO RECEIVER-CONTROLLER, NEMA 4 ENCLOSURE, 122.9 MHZ CTAF, 120VAC INPUT, REMOTE VHF ANTENNA, 3A RELAY OUTPUTS.
4. (E)PANEL 'B', CIRCUIT BREAKER PANEL, 120/240VAC, 100A MCB, 1PH-3W. REWORK AS NOTED.
5. (E)MANUAL TRANSFER SWITCH, 100A, DPDT.
6. (E)PANEL 'A', CIRCUIT BREAKER PANEL, 120/240VAC, 100A MCB, 1PH-3W.
7. (E)FAN-FORCED ELECTRIC HEATER, WALL-MOUNT, 2KW, 240V.
8. (E)EMERGENCY GENERATOR RECEPTACLE, 100A, CROUSE HINDS NO. AREA 10426 WITH APPLETON ACP1034 PLUG.
9. (E)METERBASE/MAIN BREAKER ASSEMBLY, 120/240V, 1PH-3W, 100A MAIN DISCONNECT, 10KAIC.
10. (E)PUSH-BUTTON STATION.
11. (E)PHOTOELECTRIC CONTROL.
12. (E)5KV PLUG CUTOUT IN NEMA 1 ENCLOSURE.
13. (E)ENCLOSED/GASKETED LUMINAIRE, 120V.
14. (E)EMERGENCY LIGHT, WITH NI-CAD BATTERIES, 120V, 90 MINUTE RATING.



5 E11 (E)EBB EXTERIOR SURFACE REFINISH AREA

SCALE: NOT TO SCALE

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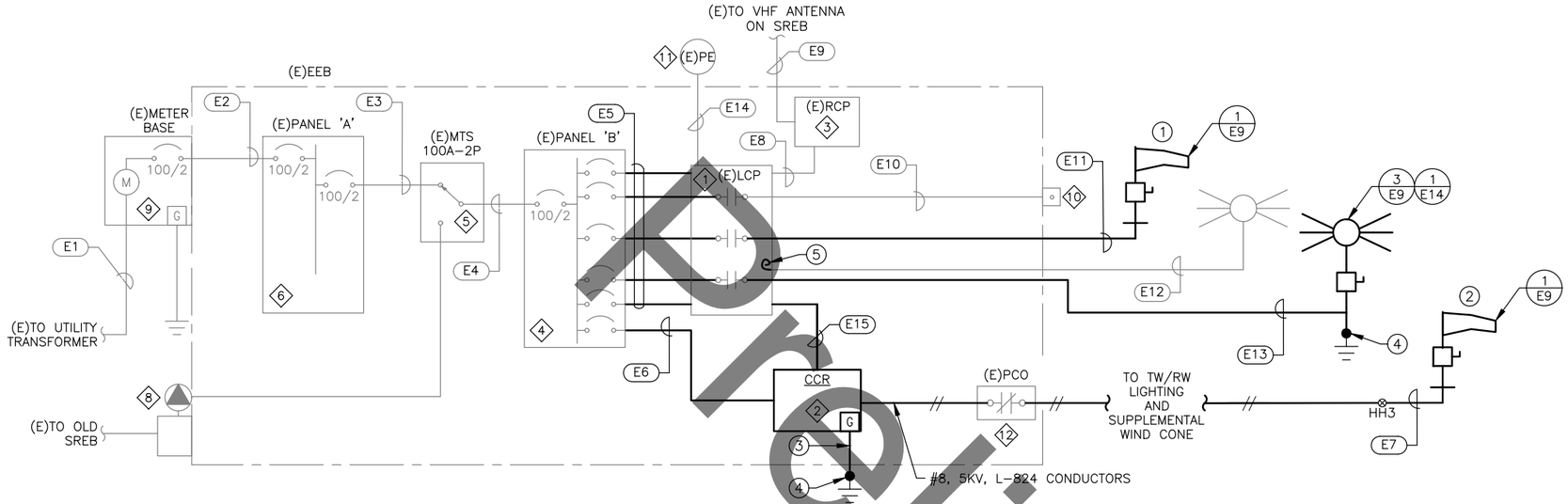
CHENEGA BAY AIRPORT
CHENEGA BAY, ALASKA
CHENEGA BAY AIRPORT LIGHTING IMPROVEMENTS
PROJECT No. CFAPT01021
AIP No. 3-02-0419-XXX-202X
ELECTRICAL ENCLOSURE PLAN AND DETAILS

DATE: APRIL 2024

SHEET: E11 OF E14

Designed By: TN
Drawn By: SS
Checked By: WS

Date Revised: 4/19/2024 10:08 AM
Layout Name: E11
File Path and Name: \\crweng.com\projects\JobsData\30130.00 Talkeetna-chenega Bay Airport Lighting\00 CADD\01 Working Set\03 Electrical\01 Chenega Bay\01021-C05-Electrical Details.dwg



1
E12

POWER ONE–LINE DIAGRAM

GENERAL NOTES:

1. INFORMATION SHOWN ON THE DRAWINGS IS TAKEN FROM A NON–DESTRUCTIVE WALK THROUGH OF THE AIRPORT AND AS–BUILT DRAWINGS. THERE IS NO GUARANTEE TO THE ACCURACY OF THE INFORMATION SHOWN. CONTRACTOR SHALL FIELD VERIFY ALL ITEMS SCHEDULED FOR DEMOLITION PRIOR TO START OF WORK.
2. EXISTING INSTALLATION SHOWN FADED WITH NEW WORK IN BOLD LINE TYPE AS NOTED.
3. SEE SHEET E11 FOR EEB PLAN DETAIL AND ASSOCIATED ELECTRICAL EQUIPMENT SCHEDULE.

SHEET NOTES:

(1) PRIMARY WIND CONE SUPPLIED BY 120VAC POWER CIRCUIT, INCLUDING HEATER. SEE SHEET E14 FOR EXISTING CONTROL WIRING DIAGRAM.

(2) SUPPLEMENTAL WIND CONE SUPPLIED BY ISOLATION TRANSFORMER FED BY RW/TW LIGHTING CIRCUIT.

(3) #6 BCU BONDING JUMPER.

(4) EXOTHERMIC CONNECTION BONDED TO GROUND RING AROUND EEB.

(5) DISCONNECT AND CAP EXISTING ROTATING BEACON CONDUCTORS IN EXISTING LCP. EXISTING ROTATING BEACON TO REMAIN.

CONDUIT SCHEDULE

TAG	FROM	TO	SIZE	CONDUCTORS	EGC	REMARKS
E1	(E)UTILITY XFMR	(E)EEB MB	2"	(3) #2/0		ETR
E2	(E)EEB METER	(E)PANEL 'A'	2"	(3) #2	#4	ETR
E3	(E)PANEL 'A'	(E)MTS	2"	(3) #2	#4	ETR
E4	(E)MTS	(E)PANEL 'B'	2"	(3) #2	#4	ETR
E5	(E)PANEL 'B'	(E)LCP	1"	(10) #10	#10	SEE NOTE 2
E6	(E)PANEL 'B'	CCR	3/4"	(2) #6	#6	SEE NOTE 1
E7	HH3	SUPP WIND CONE	2"	(2) #10	#10	
E8	(E)RCP	(E)LCP	3/4"	(5) #12	–	ETR
E9	(E)RCP	(E)ANTENNA ON SREB	1"	COAX	–	ETR
E10	(E)LCP	(E)PUSH BUTTON CONTROL	1/2"	(3) #12	#12	ETR
E11	(E)LCP	PRIMARY WIND CONE	2"	(2) #6	#6	SEE NOTES 3, 5
E12	(E)LCP	BACKUP (E)ROTATING BEACON	1 1/2"	(4) #10	#10	ETR
E13	(E)LCP	ROTATING BEACON	2"	(4) #10	#10	SEE NOTES 4, 5
E14	(E)LCP	(E)PE	3/4"	(3) #12	#12	ETR
E15	(E)LCP	CCR	3/4"	(5) #12	#12	SEE NOTE 1

NOTES:

1. REMOVE (E)CONDUCTORS. INSTALL NEW CONDUCTORS IN (E)CONDUIT AND CONNECT TO NEW CCR.
2. (E)CONDUIT AND (E)CONDUCTORS TO BE REMOVED AND REPLACED AS SPECIFIED.
3. BURIED HDPE W/ RMC ELBOW AND LFMC RISERS AT STRUCTURES. CONDUIT CROSSINGS AT RUNWAYS, TAXIWAYS AND ACROSS THE APRON SHALL BE IN RMC.
4. BURIED RMC W/ RMC ELBOW AND LFMC RISERS AT STRUCTURES.
5. REDUCE TO 3/4" CONDUIT AT EEB INTERIOR. REUSE EXISTING PENETRATIONS IN EEB WHERE APPLICABLE.
6. ALL CONDUCTORS ARE COPPER.

LOCATION: CHENEGA AIRPORT | NOTE: EXISTING/REWORK AS NOTED [1] | PANEL: PANEL B | INTERRUPT RATING: 10KA | INSTALLATION:
VOLTAGE: 240 / 120V | CONNECTION: 1 ϕ — 3 W | TYPE: MCB | MAIN: 100A | AVAILABLE FAULT CURRENT: 3.7 KA | SOURCE: FROM PANEL A VIA MTS

CKT #	TRIP/ POLES	CIRCUIT DESCRIPTION	NOTE	VA	LOAD TYPE	CONNECTED KVA Aϕ	Bϕ	Cϕ	TRIP/ POLES	CIRCUIT DESCRIPTION	NOTE	VA	LOAD TYPE	CKT #
1	20/1	LIGHTING CONTROL PANEL	[2]	60	L	0.5	–	–	20/1	BEACON STRIP HEATER	[2]	400	C	2
3	20/1	ENCLOSURE LIGHTS		200	L	–	0.7	–	20/1	BEACON LIGHT	[2]	500	L	4
5	20/1	SPARE				0.4	–	–	20/1	RECEPTACLES		360	R	6
7	20/1	PRIMARY WIND CONE	[2]	60	L	–	1.1	–	30/2	SPACE HEATER		1000	C	8
9	50/2	7.5KW REGULATOR	[3]	3750	L	4.8	–	–				1000	C	10
11				3750	L	–	3.8	–	20/1	CTRL PANEL STRIP HEATER	[2]	75	C	12
					TOTAL LOAD / PHASE:	5.6	5.6	0.0	KVA					
					DEMAND CURRENT / PHASE:	58	58	0	AMPS					

SUMMARY LOADS (KVA)

LOAD TYPE:	C	L	MM	M	N	R	X		
CONNECTED:	2.5	8.3	0.0	0.0	0.0	0.4	0.0		
DEMAND:	3.1	10.4	0.0	0.0	0.0	0.4	0.0		

TOTALS	KVA	AMPS
CONNECTED:	11.2	46
DEMAND:	13.9	58

[#] NOTES:

1. EXISTING PANEL IS SQUARE D TYPE NQOD.
2. REPLACE CIRCUIT TO EXISTING BREAKER.
3. REPLACE CIRCUIT AND PROVIDE NEW CIRCUIT BREAKER.

CCR LOAD SUMMARY

DESCRIPTION	QTY	FAA TYPE & XFMR	VA PU	*XFMR VA PU	TOTAL KVA
RW 16–34 EDGE LTS	29	L–861, 30/45W	45	65	1.89
RW 16–34 THL LTS	12	L–861SE, 150W	120	150	1.80
TW EDGE LTS	22	L–861T, 30/45W	45	65	1.43
SUPP WIND CONE	1	L–806, 100W	100	100	0.10
RW–TW CKT 5KV CABLE	**9.64	L–824, #8 CU	***34		0.33
				CCR LOAD	5.54

*30W AND 45W LIGHTS PU LOADS BASED ON FIG.A–33 IN FAA AC 150/5340–30J
**UNIT IS PER THOUSAND FEET.
***#8 5KV CABLE PU LOAD BASED ON NEC CHAPT 9 TABLE 9 AC–RESISTANCE.

STATE OF ALASKA 49TH — Tyler R. Keene EE-14401 — REGISTERED PROFESSIONAL ENGINEER

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CHENEGA BAY AIRPORT
CHENEGA BAY, ALASKA
CHENEGA BAY AIRPORT LIGHTING IMPROVEMENTS
PROJECT No. CFAPT01021
AIP No. 3–02–0419–XXX–202X
POWER ONE–LINE DIAGRAM AND SCHEDULES

DATE: APRIL 2024
SHEET: E12 OF E14

Designed By: TN
Drawn By: SS
Checked By: WS
Date Revised:
Layout Name: E12
File Path and Name: \\crweng.com\projects\Jobsdata\30130.00 Talkeetna–chenega Bay Airport Lighting\00 CADD\01 Working Set\03 Electrical\01 Chenega\01 Chenega Bay\01021–C05–Electrical One–Line And Controls.dwg
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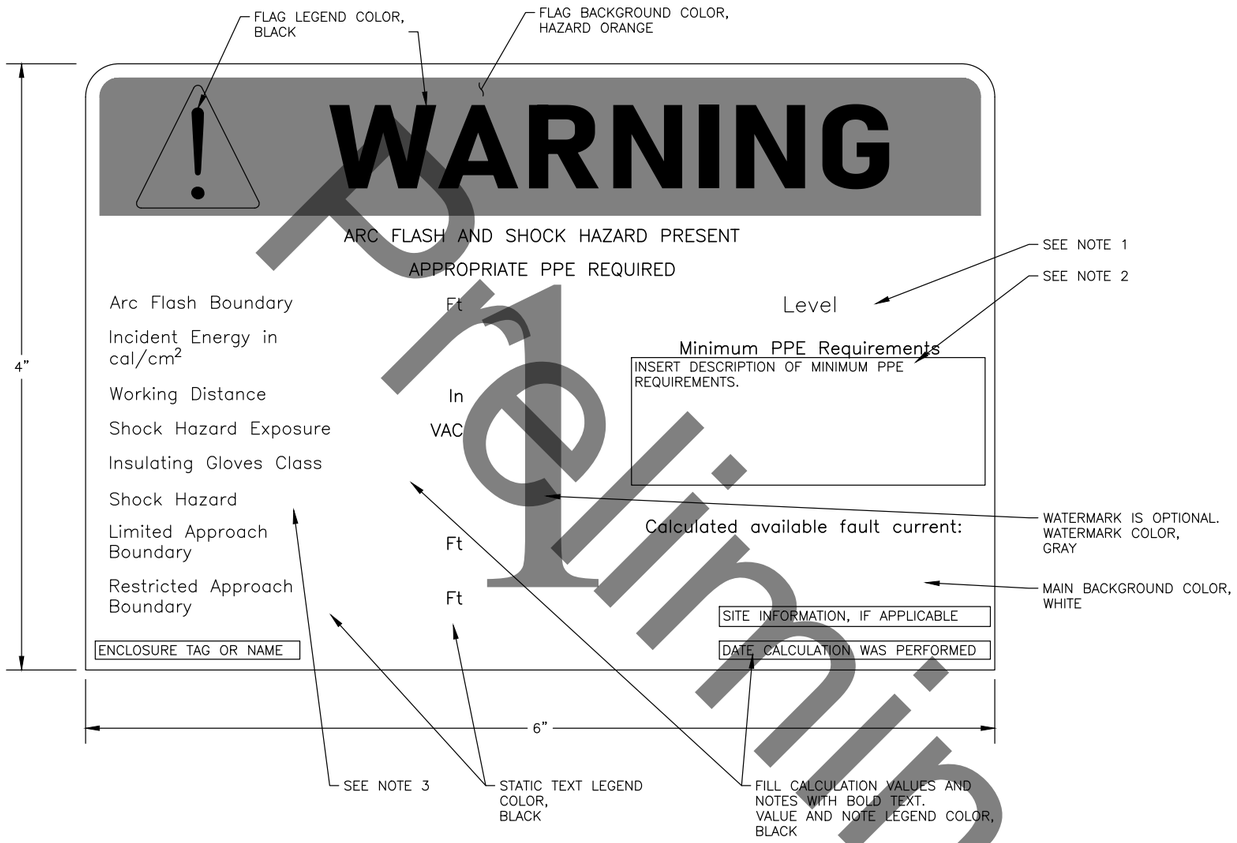

GENERAL NOTES:

1. ELECTRICAL EQUIPMENT MUST BE LABELED WITH SITE–SPECIFIC PERSONAL PROTECTION EQUIPMENT (PPE) LEVELS, AS DEFINED IN NFPA 70E 130.5(H)(3)(c).
2. MINIMUM PPE REQUIREMENTS FOR EACH PPE LEVEL DESCRIBED IN NOTE 1 ARE THE SAME REQUIREMENTS AS DESCRIBED IN NFPA 70E TABLE 130.7(C)(15)(c). THESE PPE REQUIREMENTS ARE TO BE USED AS THE SITE–SPECIFIC PPE LEVELS.
3. PROVIDE DESCRIPTION OF EQUIPMENT CONFIGURATIONS IN WHICH A HAZARD EXISTS. FOR EXAMPLE "WHEN COVER REMOVED."
4. PROVIDE LABELS PER THE TABLES ON THIS SHEET.

SHORT CIRCUIT CALCULATIONS	
240V AC IN A 1–PH, 3W CONFIGURATION WITH A POWER–FACTOR OF 1.00, 1 COPPER WIRE PER PHASE IN A CONDUIT. TEMPERATURE RATING 75°C.	
TRANSFORMER RATING	25KVA
VOLTAGE	240V
TRANSFORMER IMPEDANCE	1.20%
PASS–THRU SHORT CIRCUIT CURRENT (INFINITE BUS)	9,648A
LENGTH TO FAULT	200FT
SERVICE CONDUCTOR SIZE	2/0 AWG CU
SERVICE CONDUIT	RMC
MAX FAULT CURRENT – EEB MM	**3,867A**
LENGTH TO FAULT	3FT
SERVICE CONDUCTOR SIZE	2 AWG CU
SERVICE CONDUIT	RMC
MAX FAULT CURRENT – PANEL A	**3,805A**
LENGTH TO FAULT	3FT
SERVICE CONDUCTOR SIZE	2 AWG CU
SERVICE CONDUIT	RMC
MAX FAULT CURRENT – MTS	**3,745A**
LENGTH TO FAULT	3FT
SERVICE CONDUCTOR SIZE	2 AWG CU
SERVICE CONDUIT	RMC
MAX FAULT CURRENT – PANEL B	**3,687A**

ARC FLASH AND SHOCK HAZARD – EEB MM	
ARC FLASH BOUNDARY	15.06 INCHES
INCIDENT ENERGY IN CAL/CM2	0.896
WORKING DISTANCE	18 INCHES
SHOCK HAZARD EXPOSURE	240
INSULATING GLOVES CLASS	00
SHOCK HAZARD	WHEN DOOR OPEN
LIMITED APPROACH	42 INCHES
RESTRICTED APPROACH	12 INCHES
CALCULATED DATE	4/16/2024

ARC FLASH AND SHOCK HAZARD – PANEL A	
ARC FLASH BOUNDARY	14.95 INCHES
INCIDENT ENERGY IN CAL/CM2	0.885
WORKING DISTANCE	18 INCHES
SHOCK HAZARD EXPOSURE	240
INSULATING GLOVES CLASS	00
SHOCK HAZARD	WHEN DOOR OPEN
LIMITED APPROACH	42 INCHES
RESTRICTED APPROACH	12 INCHES
CALCULATED DATE	4/16/2024

ARC FLASH AND SHOCK HAZARD – MTS	
ARC FLASH BOUNDARY	14.84 INCHES
INCIDENT ENERGY IN CAL/CM2	0.874
WORKING DISTANCE	18 INCHES
SHOCK HAZARD EXPOSURE	240
INSULATING GLOVES CLASS	00
SHOCK HAZARD	WHEN DOOR OPEN
LIMITED APPROACH	42 INCHES
RESTRICTED APPROACH	12 INCHES
CALCULATED DATE	4/16/2024

ARC FLASH AND SHOCK HAZARD – PANEL B	
ARC FLASH BOUNDARY	14.73 INCHES
INCIDENT ENERGY IN CAL/CM2	0.863
WORKING DISTANCE	18 INCHES
SHOCK HAZARD EXPOSURE	240
INSULATING GLOVES CLASS	00
SHOCK HAZARD	WHEN DOOR OPEN
LIMITED APPROACH	42 INCHES
RESTRICTED APPROACH	12 INCHES
CALCULATED DATE	4/16/2024

STATE OF ALASKA 49TH Tyler R. Keene EE-14401 REGISTERED PROFESSIONAL ENGINEER

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CHENEGA BAY AIRPORT
CHENEGA BAY, ALASKA
CHENEGA BAY AIRPORT LIGHTING IMPROVEMENTS
PROJECT No. CFAPT01021
AIP No. 3–02–0419–XXX–202X
ARC FLASH & SHOCK HAZARD LABELING

DATE: APRIL 2024
SHEET: E13 OF E14

Designed By: TN
Drawn By: SS
Checked By: WS
Date Revised: 4/18/2024 5:05 PM
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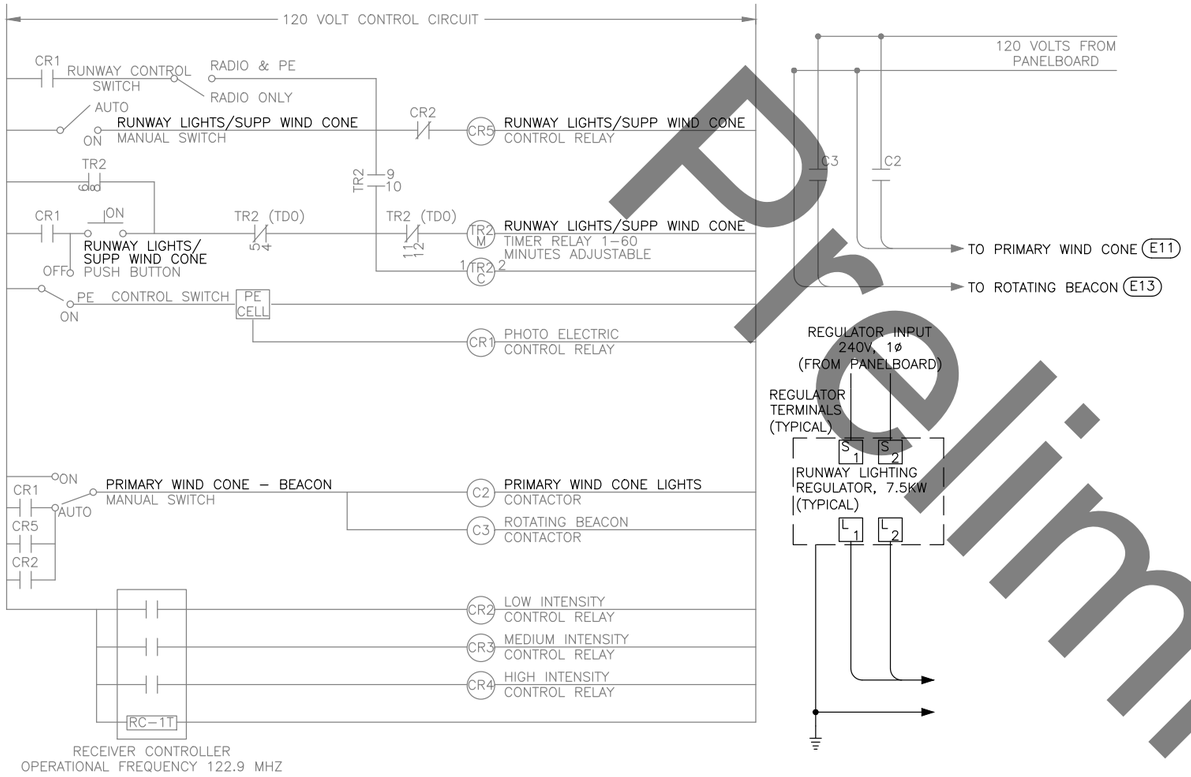
File Path and Name: \\crwengr.com\Projects\JobaData\30130.00 Tolkeetna-chenega Bay Airport Lighting\00 CADD\01 Working Set\03 Electrical\01 Chenega Bay\01021-C05-Electrical One-Line And Controls.dwg

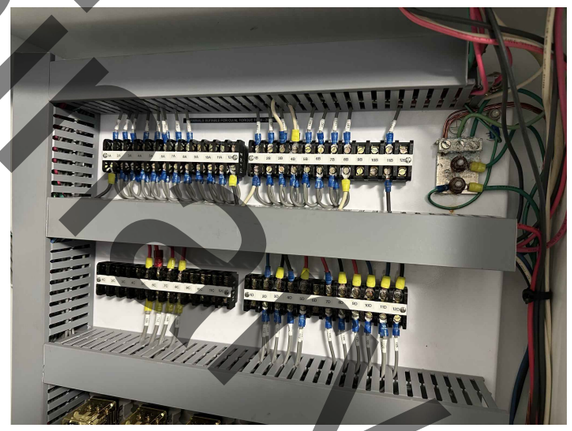
GENERAL NOTES:

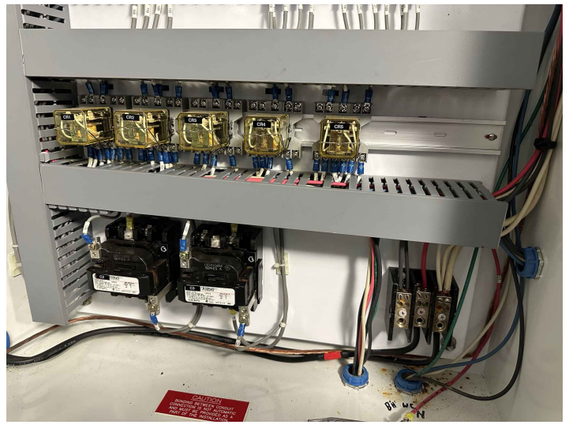
1. FOR REFERENCE ONLY. FIELD VERIFY TERMINATIONS FOR NEW WORK.
2. (E)LIGHTING CONTROL PANEL SHOWN FADED WITH UPDATED LABELS/NEW WORK IN BOLD LINE TYPE AS NOTED.



1 / E14 (E)AIRPORT LIGHTING CONTROL PANEL LADDER DIAGRAM

SCALE: NTS





2 / E14 (E)AIRPORT LIGHTING CONTROL PANEL REFERENCE PHOTOS

SCALE: NTS

CONTROL SEQUENCE DESCRIPTION:

RUNWAY LIGHTS:
ON-RUNWAY LIGHTS ON AT PRESET BRIGHTNESS.
OFF-RUNWAY LIGHTS OFF. EXTERIOR SWITCH WILL TURN ON 15 MINUTES AT PRESET BRIGHTNESS.
AUTO-EXTERIOR SWITCH WILL TURN ON 15 MINUTES AT PRESET BRIGHTNESS. RADIO CONTROLLER WILL TURN ON RUNWAY LIGHTS WITH RADIO SWITCH AND PRESET BRIGHTNESS.

PRIMARY AND SUPP WIND CONE LIGHTS:
ON-WIND CONE LIGHTS ON.
AUTO-EXTERIOR SWITCH WILL TURN ON 15 MINUTES. RADIO CONTROLLER WILL TURN ON WIND CONE LIGHTS WITH RADIO SWITCH.

BEACON:
OFF-BEACON OFF.
ON-BEACON ON.
AUTO-BEACON ON WHEN PHOTO ELECTRIC CONTROLLER TURNS ON.

EXTERIOR SWITCH:
MOMENTARY CONTACT SWITCH TURNS RUNWAY LIGHTS ON AT PRESET BRIGHTNESS. 15 MINUTES (ADJUSTABLE BY TIMER).

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PROJECT No. CFAPT01021
AIP No. 3-02-0419-XXX-202X
AIRPORT LIGHTING CONTROL PANEL

DATE: APRIL 2024
SHEET: E14 OF E14

Designed By: TN
Drawn By: SS
Checked By: WS
Date Revised:
Layout Name: E14
File Path and Name: \\crweng.com\projects\JobsData\30130.00 Talkeetna-chenega Bay Airport Lighting\00 CADD\01 Working Set\03 Electrical\01 Chenega Bay\01021-C05-Electrical One-Line And Controls.dwg
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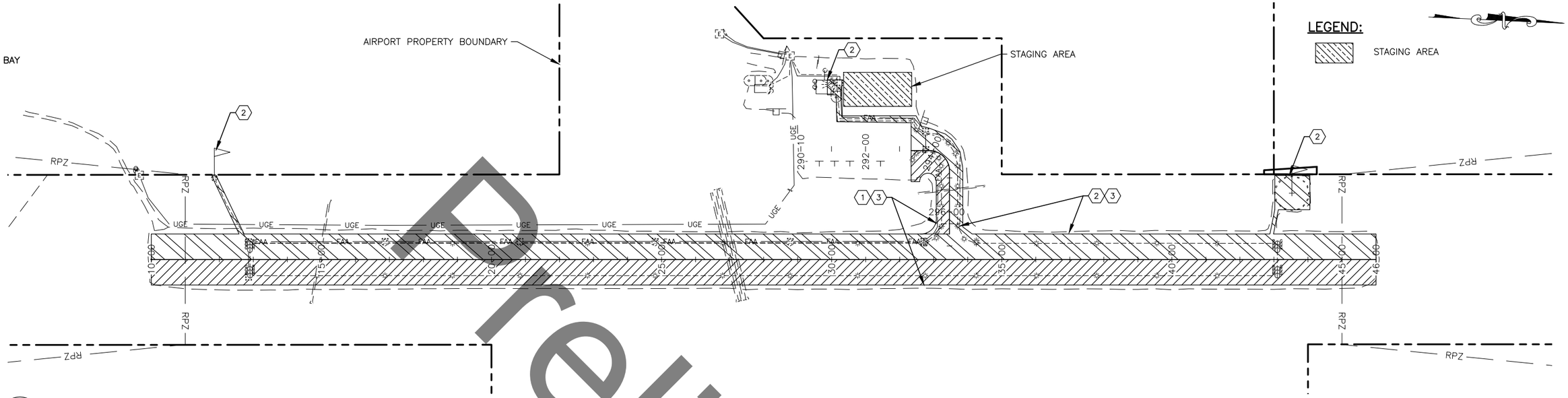

1
AC1

CSPP OVERVIEW

150' 75' 0 150' 300'

GENERAL SAFETY REQUIREMENTS

1. SET APPENDIX C OF THE SPECIFICATIONS FOR THE CONSTRUCTION SAFETY AND PHASING PLAN (CSPP) REQUIREMENTS, THE CONTRACTOR SHALL COMPLY WITH THE SAFETY REQUIREMENTS AS REQUIRED IN THE CSPP. ALL SAFETY RELATED WORK SHALL BE SUBSIDIARY TO THE CONTRACT AND NO ADDITIONAL PAYMENT WILL BE MADE.
2. THE CONTRACTOR SHALL SUBMIT A SAFETY PLAN COMPLIANCE DOCUMENT (SPCD), PER FAA AC 150/5370-2, TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO ISSUANCE OF A NOTICE TO PROCEED. IF THE CONSTRUCTION PHASING PLAN DIFFERS FROM WHAT IS SHOWN OR IF SUBSEQUENT CHANGES ARE MADE, SUBMIT A REVISION TO THE ENGINEER FOR REVIEW AND APPROVAL.
3. CLOSED PORTIONS OF THE RUNWAY, TAXIWAY AND APRON, MAY BE USED AS A HAUL ROUTE. AIRCRAFT ALWAYS HAVE THE RIGHT OF WAY. ALL GROUND VEHICLES MUST YIELD TO AIRCRAFT AT ALL TIMES.
4. WHEN WORKING NEAR THE OPEN RUNWAY, EVACUATE ALL PERSONNEL AND EQUIPMENT TO THE SAFE ZONES DESCRIBED IN DETAILS 3 AND 4 ON SHEET AC5, 5 MINUTES PRIOR AND 5 MINUTES AFTER ALL ARRIVALS AND DEPARTURES. WHEN PERSONNEL AND EQUIPMENT CANNOT BE EVACUATED TO THE SAFE ZONES, THEY MUST EVACUATE THE RUNWAY SAFETY AREA (RSA) AND/OR TAXIWAY SAFETY AREA (TSA) AND MOVE AS FAR AWAY FROM THE RUNWAY CENTERLINE AS PRACTICAL DURING AIRCRAFT OPERATIONS. IN NO CASE CAN PERSONNEL OR EQUIPMENT BE INSIDE THE RSA OR TSA DURING AIRCRAFT OPERATIONS.
5. DETERMINE THE TIMES OF SCHEDULED FLIGHTS INTO CHENEGA AND ALLOW AIRCRAFT TO USE THE RUNWAY DURING THE SCHEDULED TIMES. THE CONTRACTOR SHALL MONITOR THE COMMON TRAFFIC ADVISORY FREQUENCY (CTAF) AND PERFORM VISUAL MONITORING FOR UNSCHEDULED FLIGHTS. THE CONTRACTOR SHALL CLEAR THE RUNWAY ACCORDING TO NOTE 4 FOR ALL ARRIVALS AND DEPARTURES.
6. ALL CONSTRUCTION VEHICLES AND EQUIPMENT SHALL OPERATE A FLASHING YELLOW BEACON AND 3'x3' CHECKERED FLAG WITH 1'x1' ORANGE AND WHITE CHECKS WHEN WORKING ON THE AIRPORT. THE CONTRACTOR'S SAFETY OFFICER VEHICLE SHALL HAVE BOTH A YELLOW FLASHING BEACON AND A SEPARATE VISUAL AND/OR AUDIBLE SIGNAL (E.G. COLORED FLASHING BEACON OTHER THAN YELLOW, MEGAPHONE, AIR HORN, 2-WAY RADIO CONTACT, ETC.) USED TO SIGNAL WORKERS TO CLEAR THE AREAS DESCRIBED IN NOTE 4 FOR ALL ARRIVALS AND DEPARTURES.
7. KEEP THE ACTIVE RUNWAY OBJECT FREE AREA (ROFA) AND ACTIVE TAXIWAY OBJECT FREE AREA (TOFA) LIMITS CLEAR OF CONSTRUCTION MATERIALS. REMOVE ANY DEBRIS WITHIN 15 MINUTES OF VERBAL NOTICE FROM THE ENGINEER OR ENGINEER'S REPRESENTATIVE.
8. CLEAR SAFETY AREA AND OBJECT FREE AREAS AT ANYTIME DIRECTED BY THE ENGINEER.
9. REMOVE EQUIPMENT FROM OBJECT FREE AREA DURING NON-WORK HOURS.
10. PROVIDE AIRPORT FLAGGER WHERE CONSTRUCTION ACTIVITY IS CONDUCTED IN CLOSE PROXIMITY TO OPERATING AIRCRAFT AND WHERE THE ENGINEER OR AIRPORT PERSONNEL DETERMINES A FLAGGER IS NECESSARY.
11. TEMPORARY RUNWAY CROSS SLOPE SHALL BE NO MORE THAN 2% WHEN THE AIRPORT IS OPEN TO AIRCRAFT.
12. SEE SECTION 80 OF THE SPECIFICATIONS FOR LIMITATIONS AND OPERATIONAL SAFETY REQUIREMENTS.
13. CONTRACTOR HAULING OPERATIONS ARE LIMITED TO THE HAUL ROUTES SHOWN ON THE PLANS AND AS APPROVED BY THE ENGINEER, FOLLOWING CONSTRUCTION COMPLETION, THE CONTRACTOR IS REQUIRED TO RESTORE THE HAUL ROUTE TO ITS ORIGINAL CONDITION. TEMPORARY ACCESS ROUTES MUST BE REMOVED, AND THE GROUND RESTORED TO ITS ORIGINAL CONDITION.
14. THE CONTRACTOR MUST REPORT ANY SAFETY ISSUES TO THE ENGINEER UPON DISCOVERY. THE CONTRACTOR MUST TAKE IMMEDIATE ACTION TO RESOLVE SAFETY ISSUES AS DIRECTED.
15. IMMEDIATELY REMOVE ALL FOREIGN OBJECT DEBRIS (FOD) FROM ACTIVE SURFACES UPON DISCOVERY OR NOTIFICATION. FAILURE TO REMOVE FOD MAY BE CONSIDERED A SAFETY VIOLATION AS DETERMINED BY THE ENGINEER. STATION ADEQUATE CLEANING EQUIPMENT AT THE JOB SITE FOR IMMEDIATE CLEAN UP OF ANY MATERIAL SPILLS.
16. LOCATE STAGING AREAS AS SHOWN ON THE PLANS OR WITHIN CONSTRUCTION LIMITS FOR EACH PHASE.
17. MAINTAIN UNRESTRICTED ACCESS FROM THE AIRPORT TO THE CITY OF CHENEGA.
18. NIGHT TIME CLOSURES OF THE RW WILL BE REQUIRED TO COMPLETE THIS PROJECT. COORDINATE WITH THE AIRPORT MANAGEMENT AND AIRPORT USERS THROUGH THE ENGINEER TO ESTABLISH HOURS FOR NIGHT TIME CLOSURES. SUBMIT PROPOSED CLOSURE TIMES AS PART OF THE CPM AND WORK SCHEDULES. DISABLE OR COVER RW EDGE LIGHTS AND THRESHOLD LIGHTS DURING RW CLOSURES.

RUNWAY STATUS CHANGE PROCEDURES

THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND FAA AT LEAST 45 DAYS PRIOR TO RUNWAY CLOSURES (PARTIAL OR FULL), RE-OPENING A CLOSED RUNWAY, INTERRUPTING SERVICE OR REMOVING AND DISPLACING A RUNWAY THRESHOLD BY EMAILING AN "AIRPORT SPONSOR STRATEGIC EVENT SUBMISSION FORM", FAA FORM 600-226 TO 9-AJV-SEC-WSA@FAA.GOV.

FOLLOW THESE PROCEDURES ANY TIME THE STATUS OF THE RUNWAY/TAXIWAY IS TO BE ALTERED.

1. CONTRACTOR NOTIFIES ENGINEER OF UPCOMING CHANGE IN AIRPORT STATUS. PROVIDE 5 DAYS ADVANCED NOTICE.
2. AIRPORT MANAGER FILES NOTAM WITH FAA.
3. CONTRACTOR RECEIVES TENTATIVE APPROVAL TO CHANGE RUNWAY/TAXIWAY STATUS AT A SPECIFIC TIME AND DATE.
4. ON THE DAY OF THE CHANGE IN STATUS, A MEETING IS CONDUCTED WITH ENGINEER TO REVIEW SCHEDULE AND SAFETY PROCEDURES.
5. ENGINEER CLOSES RUNWAY/TAXIWAY TEMPORARILY FOR NEW TEMPORARY MARKINGS, LIGHTING, AND BARRIERS.
6. CONTRACTOR INSTALLS APPROVED TEMPORARY MARKINGS, LIGHTING AND BARRIERS.
7. ENGINEER INSPECTS AND APPROVES MARKINGS, LIGHTING AND BARRIERS.
8. CONTRACTOR IS PROVIDED NOTICE TO PROCEED WITH THE WORK.
9. CONTRACTOR CHANGES RUNWAY/TAXIWAY STATUS TO A NEW CONFIGURATION, OR CHANGES TO PERMANENT STATUS.
10. AIRPORT MANAGER SHALL CANCEL OR REVISE NOTAM WITH FAA WHEN WORK IS COMPLETE.

CONSTRUCTION PHASING SCHEDULE

CONSTRUCTION PHASE	WORK TO BE COMPLETED	WORK PHASES THAT MUST PRECEDE WORK	RUNWAY CLOSURES	TAXIWAY CLOSURES	LEGEND
1	REPLACE EAST HALF OF RUNWAY EDGE LIGHTS, THRESHOLD LIGHTS, AND CONDUIT. REPLACE SOUTH HALF OF TAXIWAY EDGE LIGHTS. REMOVE EXISTING FAA SYSTEM.	NONE	TEMPORARY HALF-WIDTH AND FULL-WIDTH AS REQUIRED*	TEMPORARY HALF-WIDTH AND FULL-WIDTH AS REQUIRED*	
2	REPLACE WEST HALF OF RUNWAY EDGE LIGHTS AND CONDUIT. REPLACE NORTH HALF OF TAXIWAY EDGE LIGHTS. REMOVE EXISTING FAA SYSTEM. REPLACE SEGMENTED CIRCLE PANELS, WIND CONES, ROTATING BEACON, AND EEB COMPONENTS.	PHASE 1	TEMPORARY HALF-WIDTH AND FULL-WIDTH AS REQUIRED*	TEMPORARY HALF-WIDTH AND FULL-WIDTH AS REQUIRED*	
3	INSTALL LIGHT FIXTURES.	PHASE 1 PHASE 2	TEMPORARY FULL-WIDTH AS REQUIRED*	TEMPORARY FULL-WIDTH AS REQUIRED*	N/A

CLOSURE NOTES:

* PROVIDE TEMPORARY FULL WIDTH RUNWAY CLOSURES AS REQUIRED FOR THE FOLLOWING ITEMS OF WORK (SEE NOTE 18):

1. REMOVAL OF EXISTING LIGHT FIXTURES (PHASE 1).
2. REMOVAL AND INSTALLATION OF THRESHOLD LIGHTS (PHASE 1).
3. AREA GRADING TEMPORARY AIRCRAFT TURN AROUND TO MAINTAIN AIRCRAFT OPERATIONS DURING CONSTRUCTION (PHASE 1 & 2).
4. FINAL INSTALLATION OF AIRPORT LIGHT FIXTURES (PHASE 3).

Designed By: TN
Drawn By: SS
Checked By: WS

Date Revised: 4/18/2024 12:31 PM
Layout Name: AC1
File Path and Name: \\crweng.com\Projects\Jobdata\30130.00 Tolketna-chenega Bay Airport Lighting\00 CADD\01 Working Set\01 Civil\01 Chenega Bay\01 Chenega Bay\01021-C05-CSPP Overview.dwg

PLANS DEVELOPED BY:
CRW ENGINEERING GROUP
3940 ARCTIC BLVD. SUITE 300
ANCHORAGE, ALASKA 99503
(907) 562-3252
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BY	DATE	REVISION

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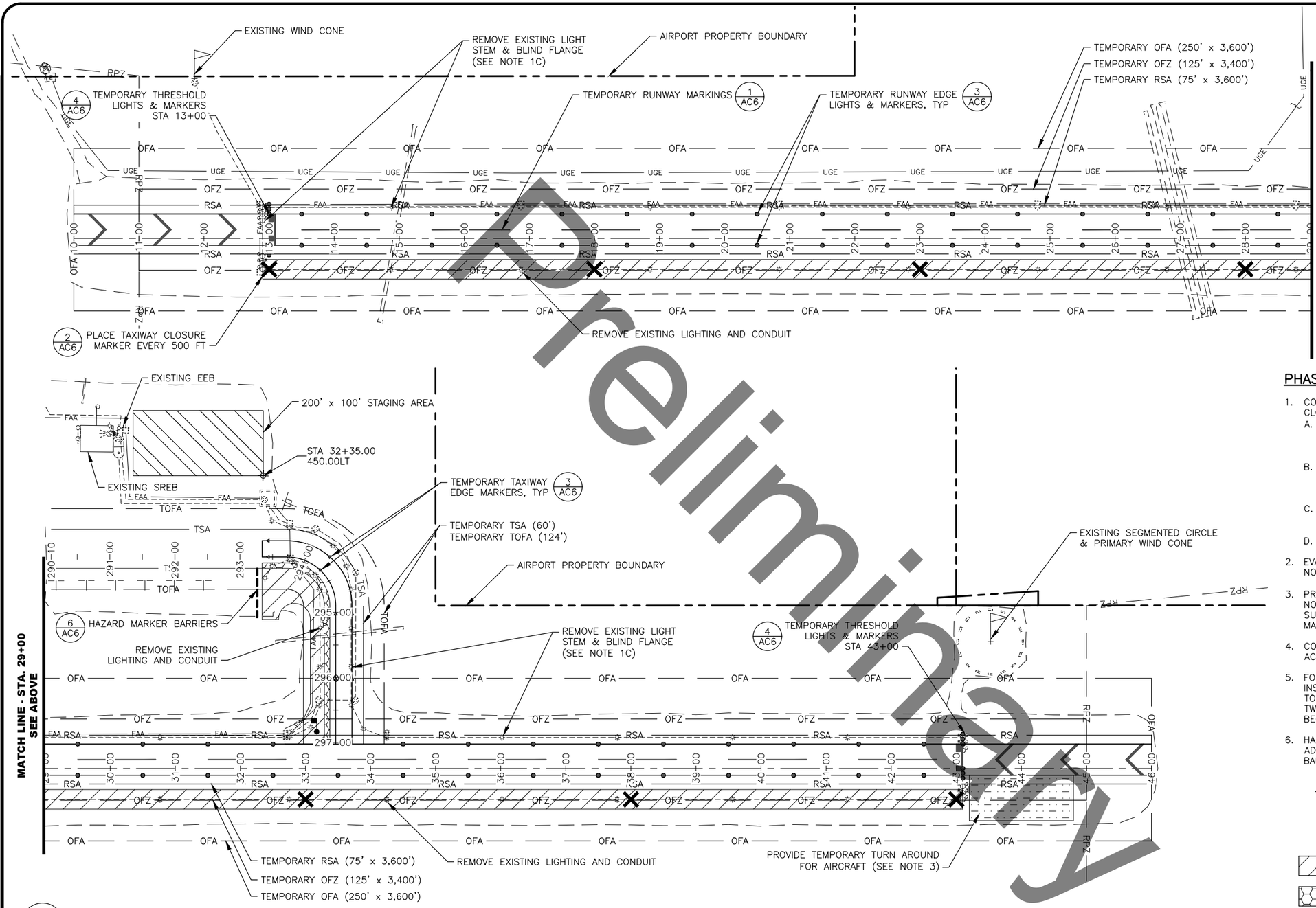
PHONE (907) 269-0590

CHENEGA BAY AIRPORT
CHENEGA BAY, ALASKA
CHENEGA BAY AIRPORT LIGHTING IMPROVEMENTS
PROJECT No. CFAPT01021
AIP No. 3-02-0419-XXX-202X
CSPP OVERVIEW

DATE: APRIL 2024
SHEET: AC1 OF AC6



1 AC2 PHASE 1

PHASE 1 NOTES

1. COMPLETE THE FOLLOWING PRIOR TO PHASE 1 CONSTRUCTION CLOSURE:
   A. NOTIFY FAA (THROUGH THE ENGINEER) 45 DAYS PRIOR TO CONSTRUCTION SO THAT APPROPRIATE NOTAMS REGARDING OPERATIONAL SURFACE CLOSURES AND ANTICIPATED LIGHTING/NAVAID OUTAGES MAY BE ISSUED.
   B. INSTALL TEMPORARY RW & TW MARKING AND LIGHTING. COVER TEMPORARY LIGHTING CONDUIT WITH CASC FOR AREAS WHERE HAULING OPERATIONS OR AIRCRAFT OPERATIONS ARE EXPECTED TO CROSS THE CONDUIT TO AVOID DAMAGE TO THE CONDUIT.
   C. FOR LIGHTS LOCATED WITHIN THE PHASE 1 TEMPORARY RW & TW LIMITS, REMOVE LIGHT FIXTURES AND BLIND FLANGE LIGHT BASES TO MAINTAIN AIRCRAFT OPERATIONS DURING PHASE 1.
   D. INSTALL BMP'S PER CONTRACTOR'S APPROVED SWPPP
2. EVACUATE PERSONNEL AND EQUIPMENT FROM AREAS DESCRIBED IN NOTE 4 ON SHEET AC1 DURING AIRCRAFT OPERATIONS.
3. PROVIDE A 70' X 160' TEMPORARY AIRCRAFT TURNAROUND AT THE NORTHERN END OF THE RW AND MAINTAIN A SMOOTH AND COMPACTED SURFACE THAT IS SUITABLE FOR AIRCRAFT OPERATIONS WITH A 2% MAXIMUM GRADE IN ANY DIRECTION.
4. COORDINATE AND MAINTAIN UNRESTRICTED AIRCRAFT ACCESS TO THE ACTIVE APRON DURING CONSTRUCTION.
5. FOR PERMANENT RW & TW LIGHTS TO BE INSTALLED IN PHASE 1, INSTALL LIGHT BASES AND CONDUIT AND BLIND FLANGE LIGHT BASES TO MAINTAIN AIRCRAFT OPERATIONS DURING PHASE 1 & 2. ALL RW & TW LIGHTING FINAL INSTALLATION WILL OCCUR IN PHASE 3, WHICH CAN BEGIN IMMEDIATELY FOLLOWING PHASE 2 COMPLETION.
6. HAZARD MARKER BARRIERS SHOWN AT APPROXIMATE LOCATIONS. ADDITIONAL LOCATIONS OR ADJUSTMENTS MAY BE REQUIRED. RELOCATE BARRIERS AS DIRECTED BY THE ENGINEER.

LEGEND:

- TAXIWAY CLOSURE MARKER
- FLAGGER
- PHASE 1 CONSTRUCTION LIMITS
- CONSTRUCTION PROHIBITED DURING AIRCRAFT OPERATIONS
- TEMPORARY RW EDGE LIGHT WITH MARKER OR THRESHOLD LIGHT WITH MARKER
- TEMPORARY TW EDGE MARKER
- HAZARD MARKER BARRIER

Designed By: TN
Drawn By: SS
Checked By: WS

Date Revised: 4/18/2024 2:58 PM
Layout Name: AC2
File Path and Name: \\crweng.com\Projects\JobsData\30130.00 Talkeetna-chenega Bay Airport Lighting\00 CADD\01 Working Set\01 Civil\01 Chenega Bay\01021-C05-CSPP Phase 1.dwg

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CHENEGA BAY AIRPORT
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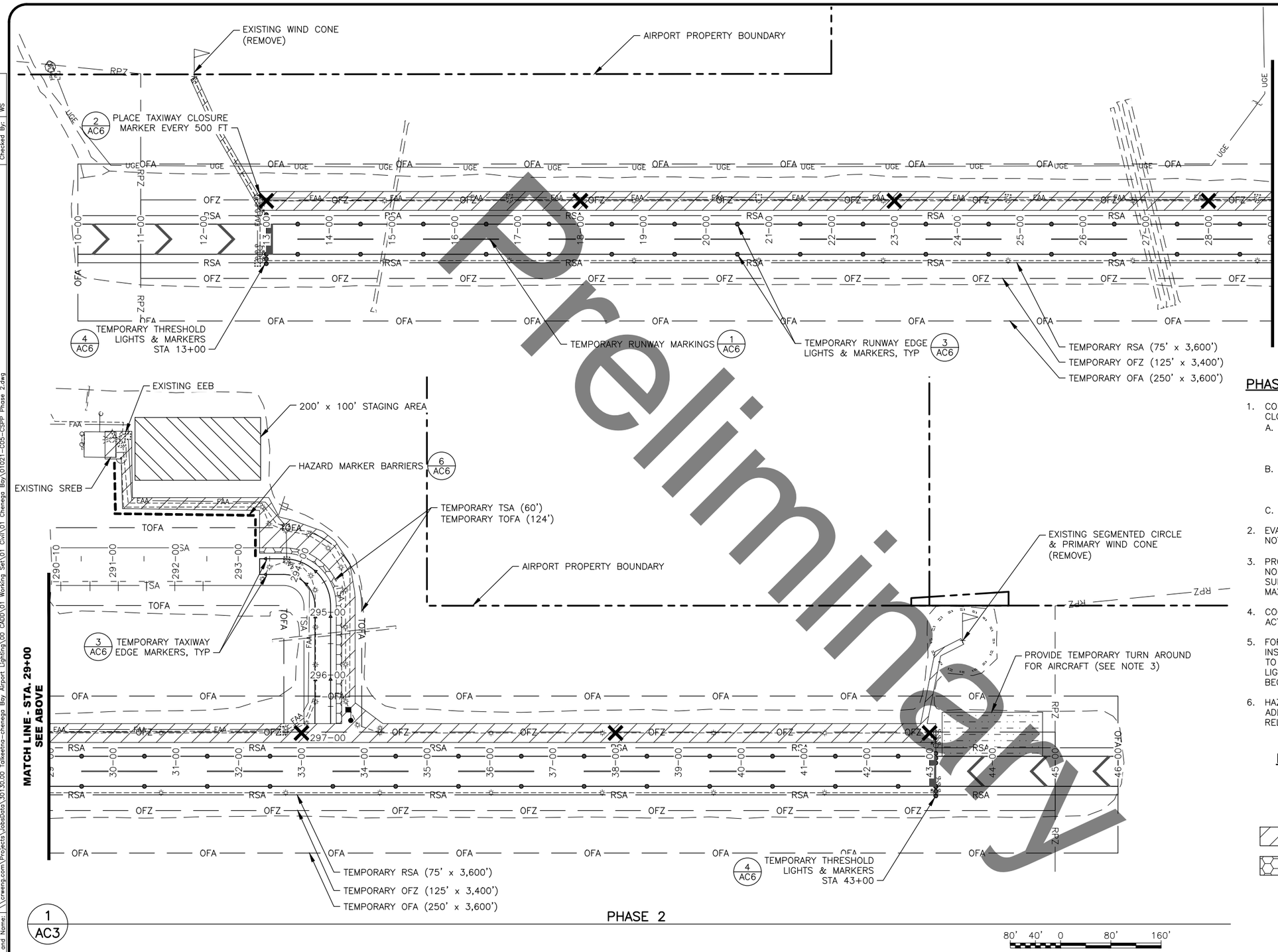
CHENEGA BAY AIRPORT LIGHTING IMPROVEMENTS
PROJECT No. CFAPT01021
AIP No. 3-02-0419-XXX-202X
CSPP PHASE 1

DATE: APRIL 2024
SHEET: AC2 OF AC6



PHASE 2 NOTES

1. COMPLETE THE FOLLOWING PRIOR TO PHASE 2 CONSTRUCTION CLOSURE:
   A. NOTIFY FAA (THROUGH THE ENGINEER) 45 DAYS PRIOR TO CONSTRUCTION SO THAT APPROPRIATE NOTAMS REGARDING OPERATIONAL SURFACE CLOSURES AND ANTICIPATED LIGHTING/NAVAID OUTAGES MAY BE ISSUED.
   B. INSTALL TEMPORARY RW & TW MARKING AND LIGHTING. COVER TEMPORARY LIGHTING CONDUIT WITH CASC FOR AREAS WHERE HAULING OPERATIONS OR AIRCRAFT OPERATIONS ARE EXPECTED TO CROSS THE CONDUIT TO AVOID DAMAGE TO THE CONDUIT.
   C. INSTALL BMPS PER CONTRACTOR'S APPROVED SWPPP.
2. EVACUATE PERSONNEL AND EQUIPMENT FROM AREAS DESCRIBED IN NOTE 4 ON SHEET AC1 DURING AIRCRAFT OPERATIONS.
3. PROVIDE A 70' X 160' TEMPORARY AIRCRAFT TURNAROUND AT THE NORTHERN END OF THE RW AND MAINTAIN A SMOOTH AND COMPACTED SURFACE THAT IS SUITABLE FOR AIRCRAFT OPERATIONS WITH A 2% MAXIMUM GRADE IN ANY DIRECTION.
4. COORDINATE AND MAINTAIN UNRESTRICTED AIRCRAFT ACCESS TO THE ACTIVE APRON DURING CONSTRUCTION.
5. FOR PERMANENT RW & TW LIGHTS TO BE INSTALLED IN PHASE 2, INSTALL LIGHT BASES AND CONDUIT AND BLIND FLANGE LIGHT BASES TO MAINTAIN AIRCRAFT OPERATIONS DURING PHASE 2. ALL RW & TW LIGHTING FINAL INSTALLATION WILL OCCUR IN PHASE 3, WHICH CAN BEGIN IMMEDIATELY FOLLOWING PHASE 2 COMPLETION.
6. HAZARD MARKER BARRIERS SHOWN AT APPROXIMATE LOCATIONS. ADDITIONAL LOCATIONS, OR ADJUSTMENTS MAY BE REQUIRED. RELOCATE BARRIERS AS DIRECTED BY THE ENGINEER.

LEGEND:

- TAXIWAY CLOSURE MARKER
- FLAGGER
- PHASE 1 CONSTRUCTION LIMITS
- CONSTRUCTION PROHIBITED DURING AIRCRAFT OPERATIONS
- TEMPORARY RW EDGE LIGHT WITH MARKER OR THRESHOLD LIGHT WITH MARKER
- TEMPORARY TW EDGE MARKER
- HAZARD MARKER BARRIER

Designed By: TN
Drawn By: SS
Checked By: WS

Date Revised:
Layout Name: AC3
File Path and Name: \\crweng.com\Projects\JobsData\30130.00 Talkeetna-Chenega Bay Airport Lighting\00 CADD\01 Working Set\01 Civil\01 Chenega Bay\01021-C05-CSPP Phase 2.dwg 4/18/2024 2:57 PM

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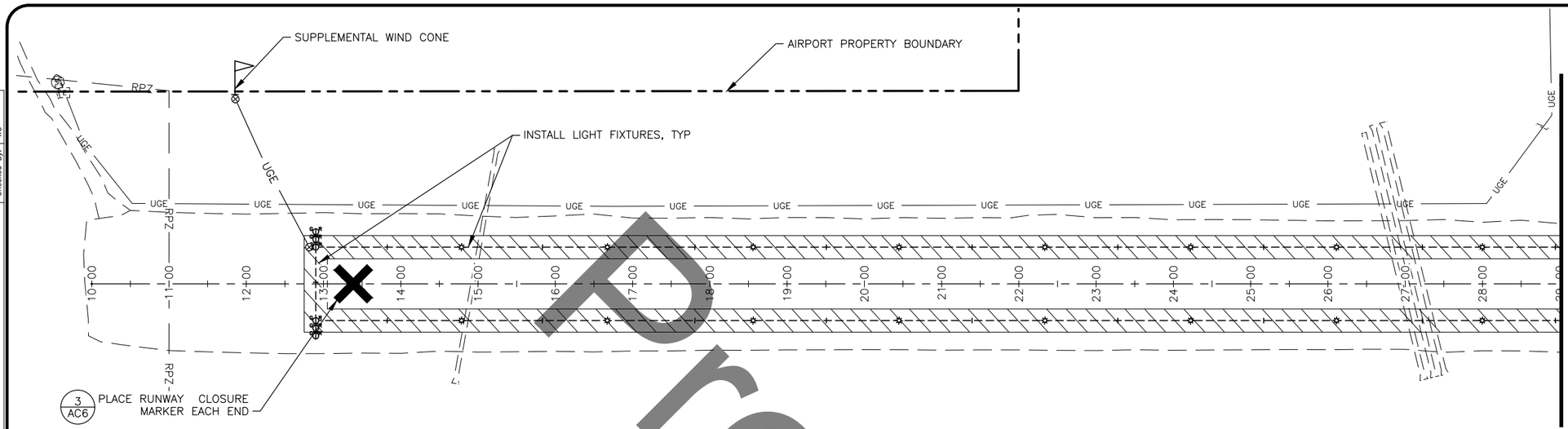
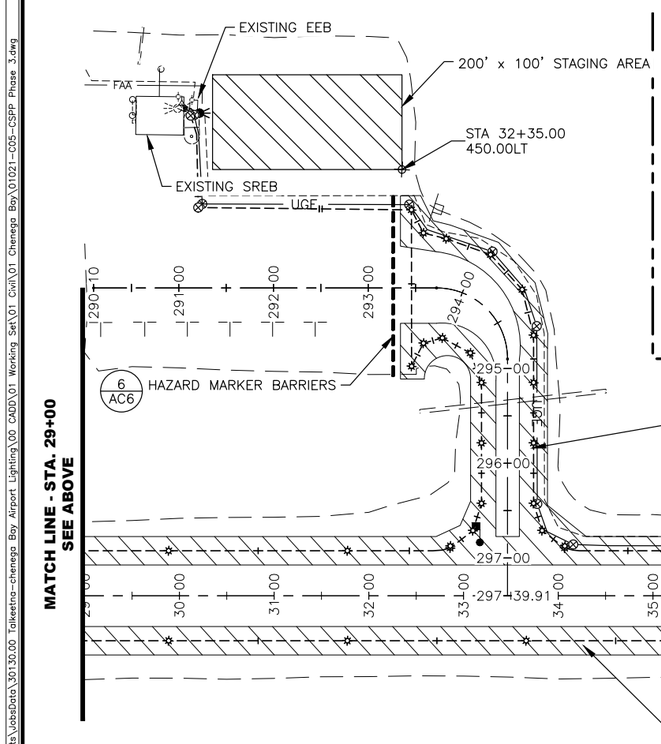
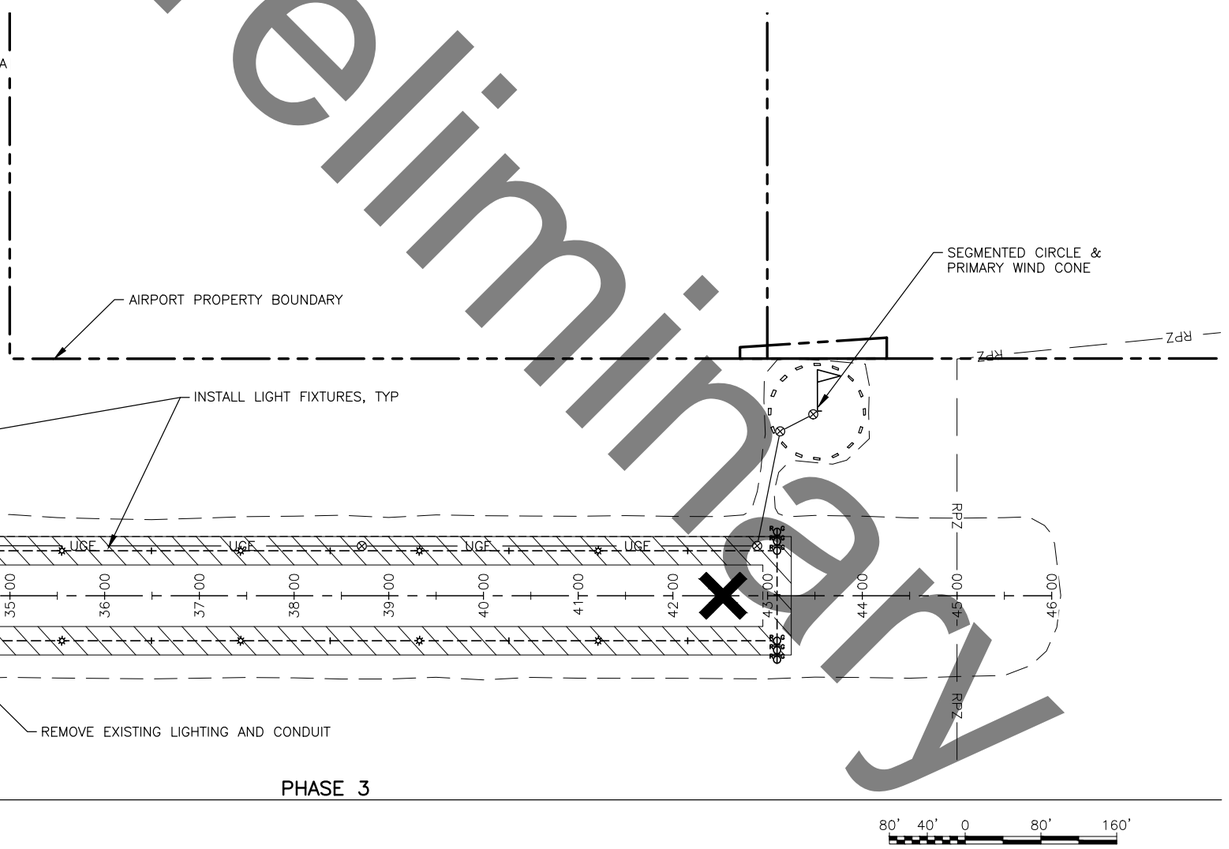
CHENEGA BAY AIRPORT
CHENEGA BAY, ALASKA
CHENEGA BAY AIRPORT LIGHTING IMPROVEMENTS
PROJECT No. CFAPT01021
AIP No. 3-02-0419-XXX-202X
CSPP PHASE 2

DATE: APRIL 2024
SHEET: AC3 OF AC6







1
AC4
PHASE 3

80' 40' 0 80' 160'

PHASE 3 NOTES

1. COMPLETE THE FOLLOWING PRIOR TO PHASE 3 CONSTRUCTION CLOSURE:
   A. NOTIFY FAA (THROUGH THE ENGINEER) 45 DAYS PRIOR TO CONSTRUCTION SO THAT APPROPRIATE NOTAMS REGARDING OPERATIONAL SURFACE CLOSURES AND ANTICIPATED LIGHTING/NAVAID OUTAGES MAY BE ISSUED.
2. CONTRACTOR SHALL CONFIRM RUNWAY CLOSURE NOTAM IS IN PLACE WITH THE AIRPORT MANAGER PRIOR TO PLACING RUNWAY CLOSURE MARKERS. ADVANCED AIR CARRIER COORDINATION IS REQUIRED FOR CLOSURES LASTING LONGER THAN 12 HOURS. FOR ADVANCED AIR CARRIER COORDINATION, CONTACT EACH CARRIER'S CHENEGA BAY FLIGHT COORDINATOR.
3. RUNWAY CLOSURE SHALL ONLY BE PERMITTED AT NIGHT, FROM THE HOURS OF 8PM TO 8AM, UNLESS AUTHORIZED BY THE ENGINEER.
4. ENSURE EDGE LIGHTING THRESHOLD AND LIGHTING BEACON ARE INACTIVE DURING FALL CLOSURE.
5. REMOVE ALL FOD PRIOR TO REMOVING RUNWAY AND TAXIWAY CLOSURE MARKERS.
6. NOTIFY AIRPORT MANAGER WHEN RUNWAY IS CLEAR OF ALL DEBRIS, EQUIPMENT, MARKERS, PERSONNEL, AND IS READY TO BE REOPENED.
7. FOLLOW STATUS CHANGE PROCEDURE AS DIRECTED ON SHEET AC1.
8. HAZARD MARKER BARRIERS SHOWN AT APPROXIMATE LOCATIONS. ADDITIONAL LOCATIONS OR ADJUSTMENTS MAY BE REQUIRED. RELOCATE BARRIERS AS DIRECTED BY THE ENGINEER.
9. ADDITIONAL RUNWAY CLOSURES MAY BE REQUIRED TO COMPLETE THE WORK ON PHASE 1 AND 2. REFER TO CLOSURE NOTES ON SHEET AC1 AND SHEETS AC2–AC3 FOR MORE INFORMATION.

LEGEND:

- RUNWAY CLOSURE MARKER
- FLAGGER
- PHASE 3 CONSTRUCTION LIMITS
- HAZARD MARKER BARRIER

Designed By: TN
Drawn By: SS
Checked By: WS

Date Revised: 4/18/2024 2:56 PM
Layout Name: AC4
File Path and Name: \\crweng.com\Projects\JobsData\30130.00 Talkeetna-chenega Bay Airport Lighting\00 CADD\01 Working Set\01 Civil\01 Chenega Bay\01021-C05-CSPP Phase 3.dwg

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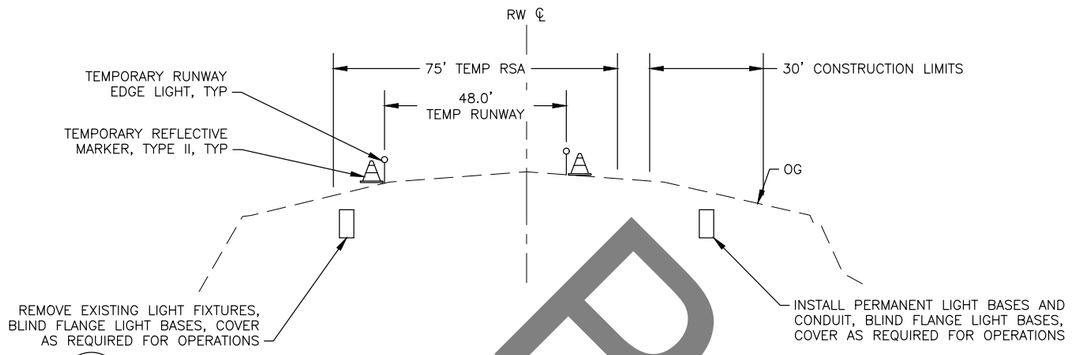
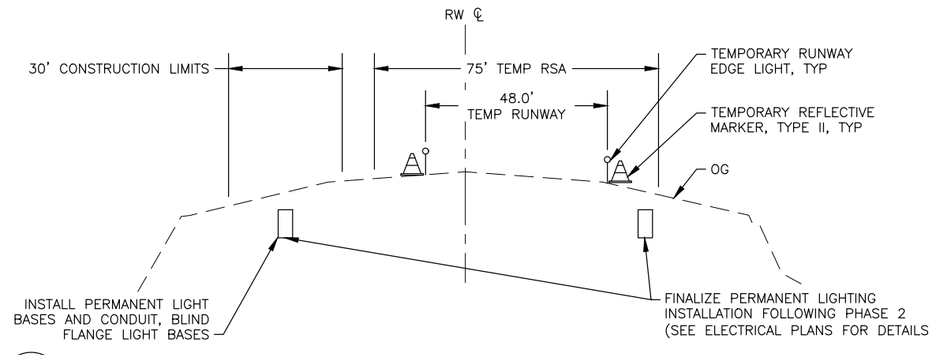
CHENEGA BAY, ALASKA
CHENEGA BAY AIRPORT LIGHTING IMPROVEMENTS
PROJECT No. CFAPT01021
AIP No. 3-02-0419-XXX-202X
CSPP PHASE 3

DATE: APRIL 2024
SHEET: AC4 OF AC6



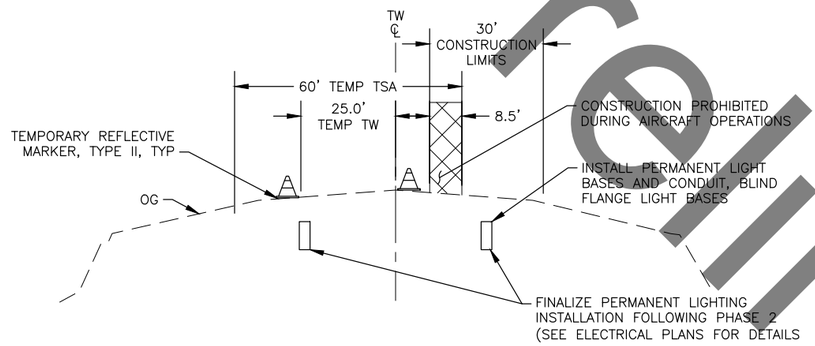
1 AC5 PHASE 1 RUNWAY CONSTRUCTION

NTS



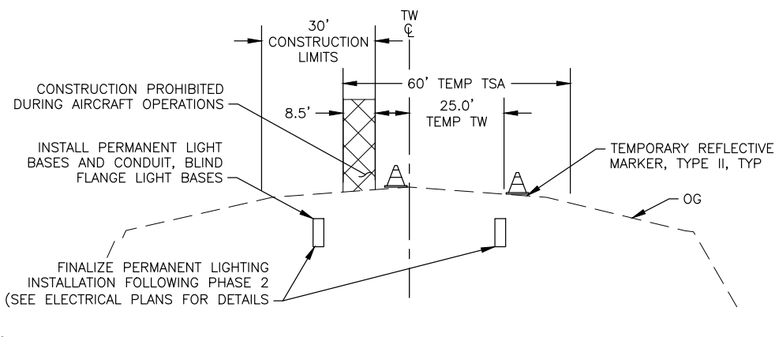
2 AC5 PHASE 2 RUNWAY CONSTRUCTION

NTS



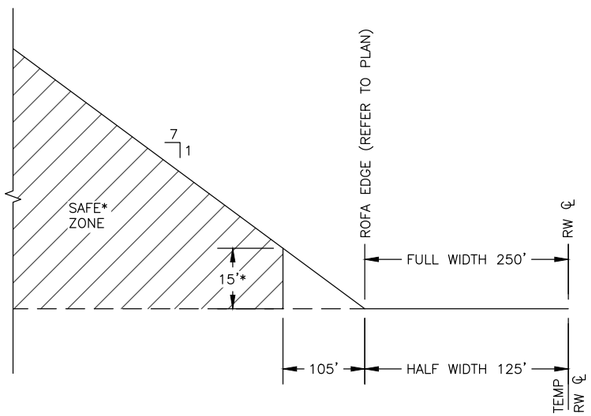
3 AC5 PHASE 1 TAXIWAY CONSTRUCTION

NTS



4 AC5 PHASE 2 TAXIWAY CONSTRUCTION

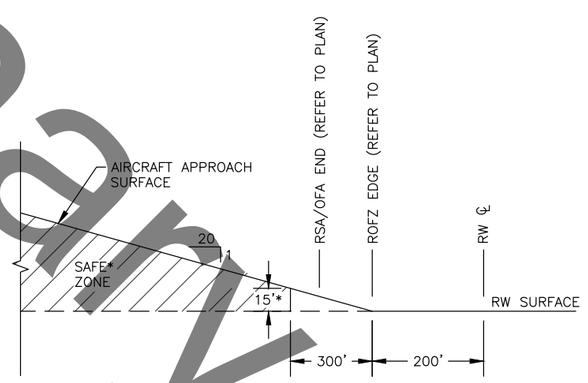
NTS



*VEHICLES TALLER THAN 15 FEET (INCLUDING ALL PARTS OF THE EQUIPMENT, E.G. AN EXCAVATOR) MUST REMAIN FARTHER AWAY FROM THE RUNWAY CENTERLINE. WHEN THIS IS THE CASE, NOTIFY AND COORDINATE SAFE ZONE LIMITS WITH THE ENGINEER.

5 AC5 SAFE ZONES ADJACENT TO RUNWAY EDGES

NTS



*VEHICLES TALLER THAN 15 FEET (INCLUDING ALL PARTS OF THE EQUIPMENT, E.G. AN EXCAVATOR) MUST REMAIN FARTHER AWAY FROM THE RUNWAY THRESHOLD. WHEN THIS IS THE CASE, NOTIFY AND COORDINATE SAFE ZONE LIMITS WITH THE ENGINEER. 20:1 APPROACH IS BASED ON THE THRESHOLD ELEVATION, THE VEHICLE HEIGHT MAY NEED TO BE REDUCED IF THE GROUND ELEVATION RISES BEYOND THE THRESHOLD.

6 AC5 SAFE ZONES ALONG EXTENDED RUNWAY OR TEMPORARY RUNWAY ℄

NTS

Designed By: TN
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Checked By: WS

Date Revised: 4/18/2024 12:27 PM
Layout Name: AC5
File Path and Name: \\crweng.com\Projects\JobsData\301330.00 Talkeetna-chenega Bay Airport Lighting\00 CADD\01 Working Set\01 Civil\01 Chenega Bay\01021-C05-CSPP Details.dwg

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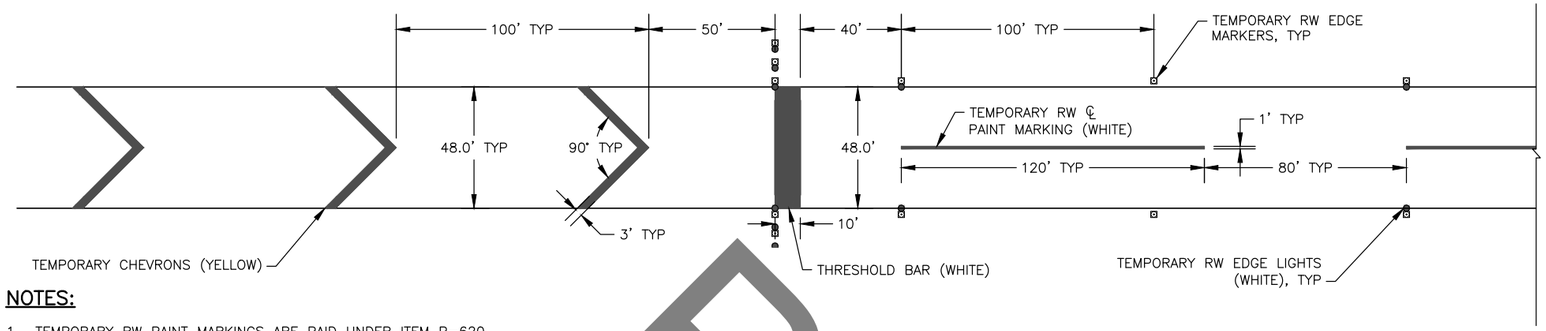
CHENEGA BAY AIRPORT
CHENEGA BAY, ALASKA
CHENEGA BAY AIRPORT LIGHTING IMPROVEMENTS
PROJECT No. CFAPT01021
AIP No. 3-02-0419-XXX-202X
CSPP DETAILS

DATE: APRIL 2024

SHEET: AC5 OF AC6

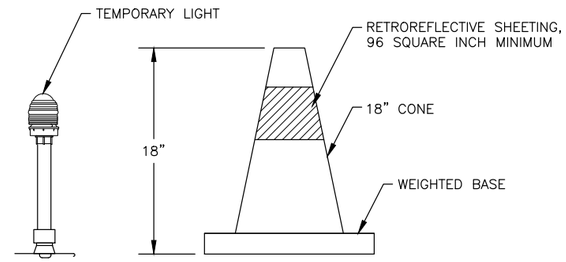


NOTES:

1. TEMPORARY RW PAINT MARKINGS ARE PAID UNDER ITEM P–620.
2. TEMPORARY RW LIGHTING PAID UNDER ITEM L–125.
3. TEMPORARY MARKERS ARE PAID UNDER P–660.
4. TEMPORARY RW EDGE LIGHTS BEFORE THRESHOLD SHALL EMIT RED LIGHT TOWARD THE APPROACH AND YELLOW LIGHT TOWARD THE RUNWAY.
5. OMIT/SHIFT RW EDGE LIGHTS THAT CONFLICT WITH TW ENTRANCES.

1 / AC6 — TEMPORARY RUNWAY MARKING DETAIL

NTS

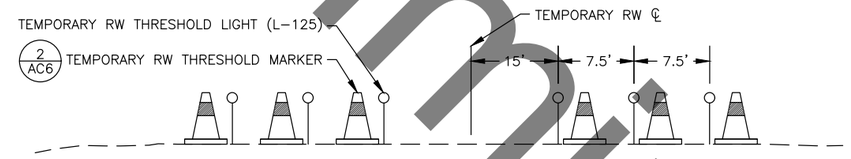


NOTES:

1. TEMPORARY RW EDGE MARKERS SHALL HAVE A WHITE RETRO REFLECTIVE SHEETING.
2. TEMPORARY THRESHOLD MARKERS SHALL HAVE A RED AND GREEN RETRO REFLECTIVE SHEETING. THE GREEN SIDE OF THE SHEETING SHALL FACE THE APPROACH OF THE RUNWAY, AND THE RED SIDE OF THE SHEETING SHALL FACE THE RUNWAY.
3. TEMPORARY TAXIWAY EDGE MARKERS SHALL HAVE A BLUE RETRO REFLECTIVE SHEETING.
4. TEMPORARY MARKERS PAID UNDER ITEM P–660.

3 / AC6 — TEMPORARY RUNWAY EDGE, TAXIWAY EDGE AND THRESHOLD MARKERS

NTS

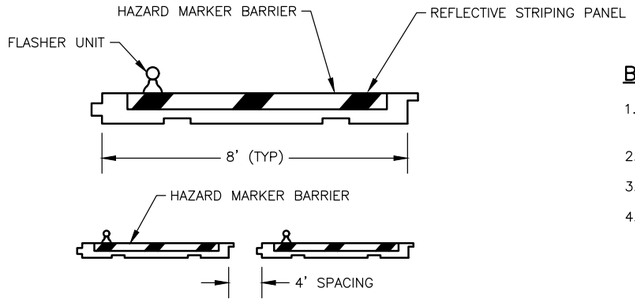


NOTES:

1. TEMPORARY RW THRESHOLD LIGHTS SHALL EMIT GREEN LIGHT ON THE APPROACH SIDE OF THE RW AND RED LIGHT TOWARD THE RW.
2. TEMPORARY RW THRESHOLD LIGHTS ARE PAID UNDER ITEM L–125.

4 / AC6 — TEMPORARY RUNWAY THRESHOLD DETAIL

NTS

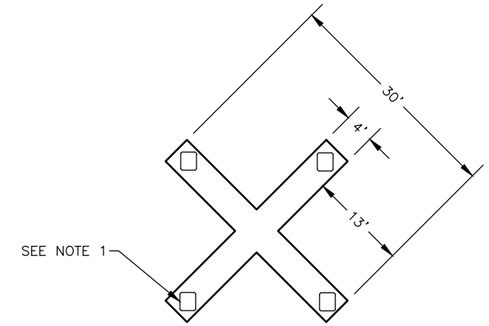


BARRICADE NOTES:

1. FLASHER SHALL BE BATTERY POWERED LIGHTS, TYPE "A", OF LOW INTENSITY, FLASHING, CONFORMING TO PART VI OF THE MANUAL ON TRAFFIC CONTROL DEVICES, 2009 EDITION.
2. ATTACH FLASHER PER MANUFACTURER'S RECOMMENDATIONS.
3. PLACE BARRIERS TO SEPARATE CONSTRUCTION AREAS FROM OPEN PORTIONS OF THE AIRPORT.
4. HAZARD MARKER BARRIERS ARE NOT TO BE PLACED WITHIN AN ACTIVE RSA OR TSA. DISTANCE BETWEEN BARRIERS CAN BE ADJUSTED FOR CONSTRUCTION TRAFFIC.

6 / AC6 — HAZARD MARKER BARRIER DETAIL

NTS

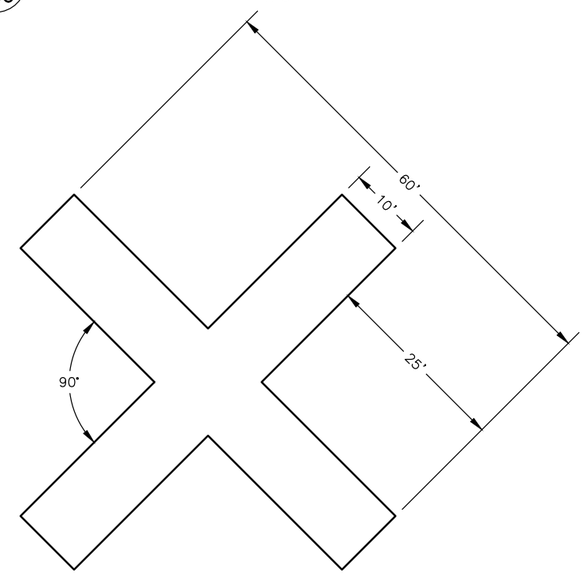


TAXIWAY CLOSURE MARKER NOTES:

1. INSTALL YELLOW SANDBAGS TO SECURE TAXIWAY CLOSURE MARKER TO SURFACE.

2 / AC6 — TAXIWAY CLOSURE MARKER DETAIL

NTS



RUNWAY CLOSURE MARKER NOTES:

1. RUNWAY CLOSURE MARKERS SHALL BE YELLOW.
2. INSTALL RUNWAY CLOSURE MARKERS AS SHOWN ON THE SAFETY PHASING PLANS.

5 / AC6 — RUNWAY CLOSURE MARKER DETAIL

NTS

Designed By: TN
Drawn By: SS
Checked By: WS

Date Revised: 4/18/2024 12:27 PM
Layout Name: AC6
File Path and Name: \\crweng.com\Projects\JobsData\30130.00 Talkeetna-chenega Bay Airport Lighting\00 CADD\01 Working Set\01 civil\01 Chenega Bay\01021-C05-CSPP Details.dwg

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CHENEGA BAY AIRPORT
CHENEGA BAY, ALASKA
CHENEGA BAY AIRPORT LIGHTING IMPROVEMENTS
PROJECT No. CFAPT01021
AIP No. 3–02–0419–XXX–202X
CSPP DETAILS

DATE: APRIL 2024
SHEET: AC6 OF AC6