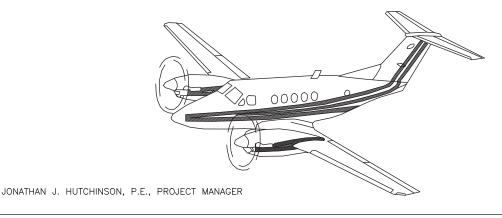
PROPOSED AIRPORT PROJECT

BREVIG MISSION AIRPORT

BREVIG MISSION AIRPORT LIGHTING AND RESURFACING

AIP NO. 3-02-0400-XX-XXXX

PROJECT NO. NFAPTO0500



SPONSORED BY THE STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES NORTHERN REGION

APPROVED BY:

for sarah e. schacher, p.e., preconstruction engineer, northern region

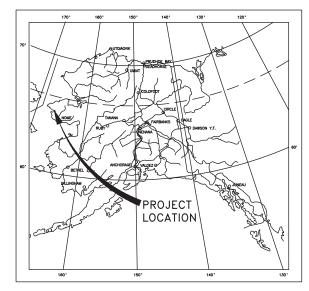
4/5/2022

ACCEPTED FOR CONSTRUCTION:

SHAP BE ACTING REGIONAL DIRECTO

4/5/2022

for JOSEPH P. KEMP, P.E., ACTING REGIONAL DIRECTOR, NORTHERN REGION



LOCATION MAP

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3	SURVEY CONTROL
4	ESTIMATE OF QUANTITIES
5	PROJECT LAYOUT PLAN
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V1-V4	STANDARD PLANS

THE FOLLOWING AKDOT&PF STANDARD PLANS APPLY TO THIS PROJECT: S-01.02, S-05.02, S-30.05, S-00.12



VICINITY MAP

SEC 9, T2S, R38W, KM USGS-TELLER B-3 1"=10000'

As Advertised April 12, 2022 Northern Region

SCOPE OF WORK

- 1. THE SCOPE OF WORK FOR THIS PROJECT IS TO RESURFACE AND FLATTEN EMBANKMENT SLOPES ON RUNWAYS 04-22 AND 11-29, TAXIWAY, APRON, AND ACCESS ROAD; REPAIR WIND CONE ACCESS ROAD; REPLACE RUNWAY 04-22, 11-29, AND TAXIWAY LIGHTING; REPLACE THE ROTATING BEACON AND LIGHTED WIND CONE; MULCH AND SEED THE RE-GRADED EMBANKMENT SLOPES; AND APPLY A DUST PALLIATIVE TO THE GRAVEL SURFACES.
- 2. THE SCOPE OF WORK TOGETHER WITH REFERENCED CODES, STANDARDS, SPECIFICATIONS, PROJECT DRAWINGS, STANDARD DRAWINGS, AND OTHER SUPPLEMENTAL INSTRUCTIONS COVERS THE PROJECT

GENERAL NOTES

1. KNOWN UTILITIES AND STRUCTURES ARE SHOWN IN THEIR APPROXIMATE LOCATIONS. PRIOR TO WORK THE CONTRACTOR SHALL VERIFY SIZE, DEPTH, AND LOCATIONS OF ALL UNDERGROUND AND OVERHEAD UTILITIES AND STRUCTURES. THE CONTRACTOR SHALL PROTECT UTILITIES AND STRUCTURES FROM DAMAGE AND SHALL NOT DISTURB UNDERGROUND UTILITIES/STRUCTURES THAT ARE TO REMAIN.

ABBREVIATIONS

AIRPORT IMPROVEMENT PROJECT

ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES BEST MANAGEMENT PRACTICES DOT&PF

BMPs

CENTERLINE

FASTING

ELECTRICAL EQUIPMENT BUILDING FOREIGN OBJECT DEBRIS

EEB FOD

MIN MINIMUM NORTHING NUMBER

NO. OFZ OBJECT FREE ZONE

RW RUNWAY

RUNWAY OBJECT FREE AREA RUNWAY PROTECTION ZONE ROFA RPZ

RSA RUNWAY SAFETY AREA

STORM WATER POLLUTION PREVENTION PLAN SWPPP

TAXIWAY OBJECT FREE AREA

TYPICAL

LEGEND

- CENTER LINE

AIRPORT PROPERTY BOUNDARY (EXISTING)

---P---P---P-----PERIMETER CONTROL

---- EDGE OF RUNWAY, TAXIWAY, APRON (EXISTING)

EDGE OF RUNWAY, TAXIWAY, APRON (PROPOSED)

CONSTRUCTOR STAGING AREA



APPROXIMATE MEAN WATER LEVEL

WIND CONE



SEGMENTED CIRCLE

DESIGN <u>REH</u>

DRAWN JCZ

CHECKED <u>REH</u>

STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES NORTHERN REGION-DESIGN AND CONSTRUCTION-AVIATION

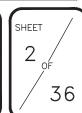


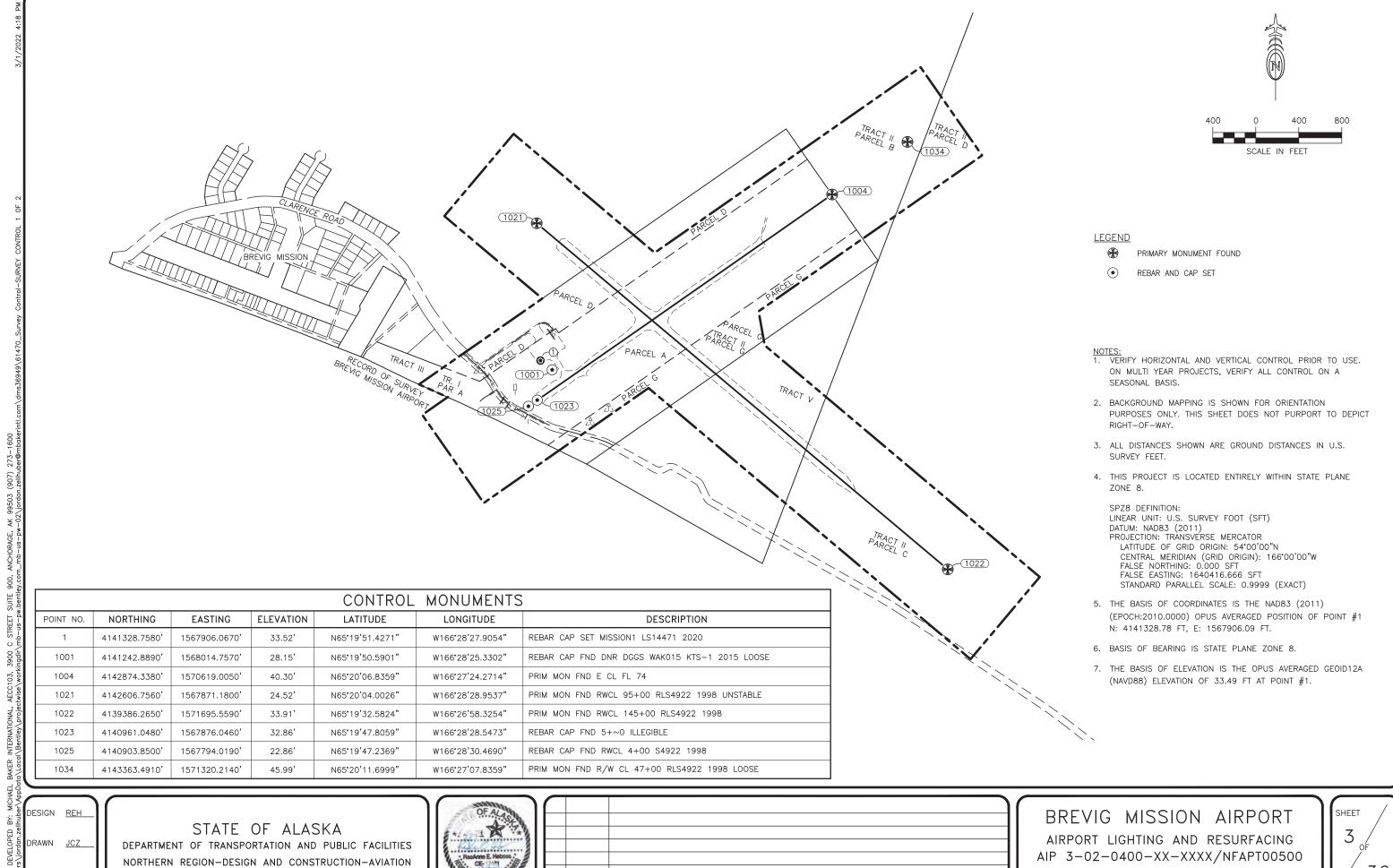
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BREVIG MISSION AIRPORT

AIRPORT LIGHTING AND RESURFACING AIP 3-02-0400-XX-XXXX/NFAPT00500

LEGEND

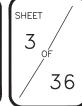




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SURVEY CONTROL



	ESTIMATE OF QUANTITII	ES	
ITEM NO.	PAY ITEM	UNIT	QUANTITIY
G100.010.0000	MOBILIZATION AND DEMOBILIZATION	LUMP SUM	ALL REQUIRED
G115.010.0000	WORKER MEALS & LODGING, OR PER DIEM	LUMP SUM	ALL REQUIRED
G130.010.0000	FIELD OFFICE	LUMP SUM	ALL REQUIRED
G130.020.0000	FIELD LABORATORY	LUMP SUM	ALL REQUIRED
G130.040.0000	MEAL	EACH	1,326
G130.050.0000	LODGING	EACH	438
G130.060.0000	NUCLEAR TESTING EQUIPMENT STORAGE SHED	EACH	1
G130.110.0000	FIELD COMMUNICATIONS	CONTINGENT SUM	ALL REQUIRED
G131.050.0000	ENGINEERING TRANSPORTATION	LUMP SUM	ALL REQUIRED
G135.010.0000	CONSTRUCTION SURVEYING BY THE CONTRACTOR	LUMP SUM	ALL REQUIRED
G135.020.0000	EXTRA THREE PERSON SURVEY PARTY	HOUR	120
G210.010.0000	CONTRACTOR SAFETY PLAN COMPLIANCE DOCUMENT	LUMP SUM	ALL REQUIRED
G700.010.0000	AIRPORT FLAGGER	CONTINGENT SUM	ALL REQUIRED
G700.030.0000	AIRPORT TRAFFIC MAINTENANCE	LUMP SUM	ALL REQUIRED
G710.010.0000	HIGHWAY TRAFFIC MAINTENANCE	LUMP SUM	ALL REQUIRED
G710.020.0000	HIGHWAY FLAGGER	CONTINGENT SUM	ALL REQUIRED
L101.020.0000	ROTATING BEACON, MEDIUM INTENSITY, L-801A	EACH	1
L107.010.0008	8-FEET LIGHTED WIND CONE, IN PLACE	EACH	1
L108.010.2008	UNDERGROUND CABLE #8 AWG, COPPER, 5kV FAA TYPE C, L-824	LF	12,000
L108.030.0006	#6 BARE COPPER GROUND CONDUCTOR	LF	12,000
L108.070.0000	GROUND ROD	EACH	16
L109.030.0000	ELECTRICAL ENCLOSURE AND FOUNDATION IN PLACE	EACH	1
L109.050.0000	INSTALLATION OF ELECTRICAL EQUIPMENT IN NEW OR EXISTING STRUCTURE	LUMP SUM	ALL REQUIRED
L110.030.1002	RIGID STEEL CONDUIT, 2-INCH	LF	850
L110.080.1002	HDPE CONDUIT, 2-INCH	LF	11,250
L125.020.0000	REGULATOR, L-828	EACH	1
L125.030.0000	MEDIUM INTENSITY RUNWAY EDGE AND THRESHOLD LIGHT, L-861 AND L-861SE	EACH	79
L125.040.0000	TAXIWAY EDGE LIGHT, L-861T	EACH	18
L125.050.0000	WINDCONE HANDHOLE, L-867	EACH	1
L125.070.0000	REMOVE RUNWAY AND TAXIWAY LIGHT	EACH	95
L125.170.0000	SPARE PARTS	CONTINGENT SUM	ALL REQUIRED
L125.180.0000	TEMPORARY RUNWAY LIGHTING SYSTEM	LUMP SUM	ALL REQUIRED
L161.010.0000	ELECTRICAL METER CENTERS	LUMP SUM	ALL REQUIRED
P152.200.0000	BORROW	TON	257,700
P165.010.0000	REMOVAL OF STRUCTURES	LUMP SUM	ALL REQUIRED
P167.010.0000	DUST PALLIATIVE	SQUARE YARD	104,000
P299.020.0000	CRUSHED AGGREGATE SURFACE COURSE	TON	34,300
P641.010.0000	EROSION, SEDIMENT, AND POLLUTION CONTROL ADMINISTRATION	LUMP SUM	ALL REQUIRED
P641.030.0000	TEMPORARY EROSION, SEDIMENT, AND POLLUTION CONTROL	LUMP SUM	ALL REQUIRED
P641.040.0000	TEMPORARY EROSION, SEDIMENT, AND POLLUTION CONTROL ADDITITIVES	CONTINGENT SUM	ALL REQUIRED
P641.060.0000	WITHHOLDINGS	CONTINGENT SUM	ALL REQUIRED
P641.070.0000	SWPPP MANAGER	LUMP SUM	ALL REQUIRED
P648.020.0000	ARCHAEOLOGICAL MONITORING	CONTINGENT SUM	ALL REQUIRED
P660.030.0000	REFLECTIVE MARKER, TYPE II	EACH	137
P661.030.0000	STANDARD SIGNS	LUMP SUM	ALL REQUIRED
P670.010.0000	HAZARD MARKER BARRIER, PLASTIC	EACH	120
P671.020.0000	RUNWAY CLOSURE MARKER, ILLUMINATED	EACH	4
P680.010.0000	SILT FENCE	LF	14,900
T901.020.0000	SEEDING SEEDING	POUND	1,380
T908.040.0000	MULCH - HYDRUALIC EROSION CONTROL PRODUCTS	SQUARE YARD	75,600

	ESTIMATE OF LUMP SUM QUAN	TITIES	
ITEM NO.	DESCRIPTION	PAY UNIT	QUANTITY
P165.010.0000	REMOVAL OF STRUCTURES	EACH	1
P661.030.0000	STANDARD SIGNS	SF	35

ESTIMATING FACTORS							
ITEM NO.	DESCRIPTION	VALUE					
P152.200.0000	BORROW	1.9 TON/CY					
P299.020.0000	CRUSHED AGGREGATE SURFACE COARSE	1.9 TON/CY					
T901.020.0000	SEEDING	2 LB/1,000 SF					

DESIGN <u>REH</u>

DRAWN <u>JCZ</u>

CHECKED <u>REH</u>

STATE OF ALASKA

DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

NORTHERN REGION-DESIGN AND CONSTRUCTION-AVIATION

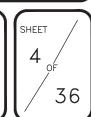


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BREVIG MISSION AIRPORT

AIRPORT LIGHTING AND RESURFACING AIP 3-02-0400-XX-XXXX/NFAPT00500

ESTIMATE OF QUANTITIES





DRAWN JCZ HECKED REH

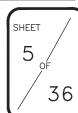
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES NORTHERN REGION-DESIGN AND CONSTRUCTION-AVIATION

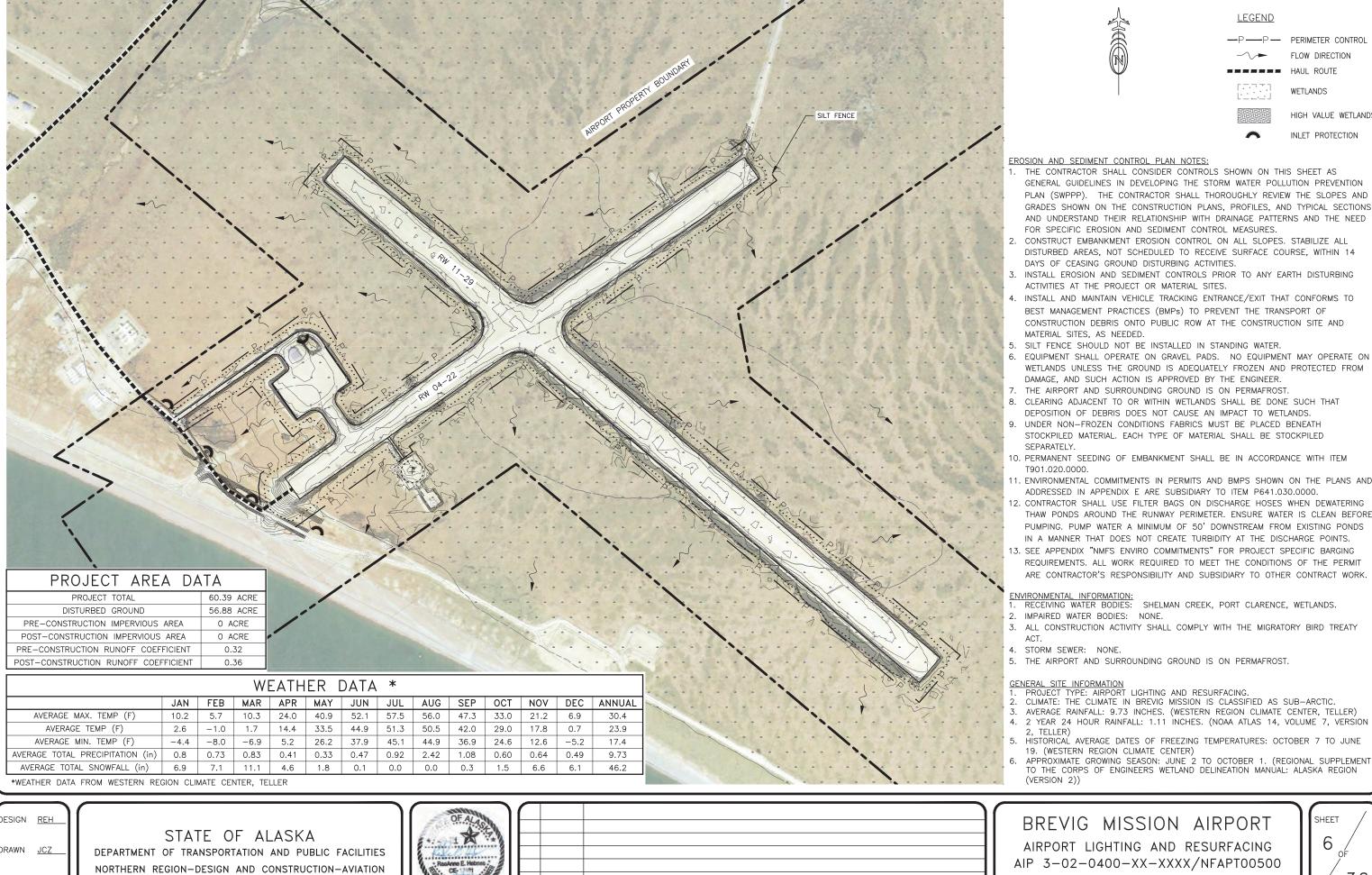


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AIRPORT LIGHTING AND RESURFACING AIP 3-02-0400-XX-XXXX/NFAPT00500

PROJECT LAYOUT PLAN





DATE

REVISIONS

HECKED <u>REH</u>

BREVIG MISSION AIRPORT

AIRPORT LIGHTING AND RESURFACING AIP 3-02-0400-XX-XXXX/NFAPT00500 **ESCP**

6

LEGEND

-P — PERIMETER CONTROL FLOW DIRECTION HAUL ROUTE WETLANDS

> HIGH VALUE WETLANDS INLET PROTECTION

GENERAL CONSTRUCTION SAFETY PHASING PLAN NOTES: EACH CONTRACTOR AND SUB-CONTRACTOR SHALL OBTAIN, HAVE KNOWLEDGE OF, AND INCORPORATE THE FOLLOWING SAFETY PROVISIONS INTO THE CONSTRUCTION PROJECT:

- A) OPERATIONAL SAFETY ON AIRPORTS DURING CONSTRUCTION AC 150/5370-2G. B) AIRPORT SAFETY SELF-INSPECTION - AC 150/5200-18C.
- C) PAINTING, MARKING, AND LIGHTING OF VEHICLES USED ON AIRPORTS AC
- THE CONTRACTOR SHALL DEVELOP A SAFETY PLAN COMPLIANCE DOCUMENT (SPCD) BASED ON THE REQUIREMENTS OF THE CONTRACT CSPP, SECTION G-210 SAFETY PLAN COMPLIANCE DOCUMENT, SUBSECTION 80-04, SUBSECTION 80-07, AND AC 150/5370-2G OPERATIONAL SAFETY ON AIRPORTS DURING CONSTRUCTIONS. CONSTRUCTION ACTIVITIES CANNOT START UNTIL AN SPCD HAS BEEN APPROVED
- ALL AIRCRAFT TRAFFIC ON RUNWAYS, RAMP AREAS, TAXIWAYS, AND APRONS SHALL HAVE PRIORITY OVER CONTRACTOR'S TRAFFIC. AT ANY TIME, THE OWNER RESERVES THE RIGHT TO ORDER THE CONTRACTOR TO VACATE ANY AREA NECESSARY TO MAINTAIN SAFE AIRCRAFT OPERATIONS. ALL CONTRACTOR VEHICLES MUST YIELD TO AIRCRAFT
- NOTICE TO AIRMEN (NOTAMS) THE CONTRACTOR WILL PROVIDE THE NECESSARY INFORMATION ON CONSTRUCTION CONDITIONS (AIRFIELD PAVEMENT CLOSURES, TIE-INS, ETC.) TO THE AIRPORT MANAGER A MINIMUM OF FOURTEEN (14) DAYS PRIOR SO THAT A NOTAM CAN BE SCHEDULED AND ISSUED BY OWNER.
- CONTRACTOR SHALL CONTINUOUSLY MONITOR THE BREVIG MISSION COMMON TRAFFIC ADVISORY FREQUENCY (CTAF), 123.00 MHZ, FOR INCOMING AIRCRAFT ACTIVITY CONTRACTOR WILL HAVE A WORKING RADIO ON SITE DURING CONSTRUCTION AND SHALL ASSIGN RESPONSIBLE PERSONNEL INCLUDING ALL FLAGMEN TO CONTINUOUSLY MONITOR THE APPROPRIATE FREQUENCY, FLAGMEN SHALL DIRECT CONSTRUCTION VEHICLES ONLY AND WILL YIELD TO AIRCRAFT AT ALL TIMES. FLAGMEN SHALL NOT DIRECT AIRCRAFT. THERE SHALL BE A SINGLE RUNWAY CROSSING SET UP. THE CONTRACTOR SHALL NOT BE ALLOWED FREE ACCESS TO OPEN RUNWAYS AND TAXIWAYS.
- ACTIVE AIRPORT OPERATIONAL AREAS WHICH ARE ADJACENT TO A CONSTRUCTION WORK AREA SHALL BE SEPARATED BY LOW PROFILE BARRIERS WITH RED FLASHING LIGHTS TO BLOCK AIRCRAFT ACCESS. BLUE LIGHTS SHALL BE USED ON ALL BARRICADES THAT DELINEATE A TAXIWAY. THE CONTRACTOR SHALL PROVIDE AND INSTALL THE BARRIERS.
- 7. ALL CONSTRUCTION VEHICLES THAT ARE AUTHORIZED TO OPERATE WITHIN THE ACTIVE AIRCRAFT OPERATIONS AREA (AOA) SHALL MEET THE FAA REQUIREMENTS FOR MARKING AND LIGHTING. DRIVERS SHALL BE EQUIPPED WITH A RADIO TO MONITOR THE CTAF AT ALL TIMES. ALL VEHICLES OPERATING WITHIN THE AIRPORT SHALL DISPLAY A COMPANY LOGO ON BOTH SIDES AND HAVE AN AMBER FLASHING LIGHT APPLIED TO THE TOP OF THE VEHICLE. THE INTENSITY OF THE AMBER LIGHT SHALL MEET MINIMUM STANDARDS FOR MAINTENANCE VEHICLES. ALL CONSTRUCTION EQUIPMENT OPERATING DURING DAYTIME HOURS WITHIN THE AIRPORT SHALL DISPLAY A 3'X3' ORANGE AND WHITE CHECKERED FLAG. ALL CONSTRUCTION EQUIPMENT OPERATING DURING NIGHTTIME HOURS WITHIN THE AIRPORT SHALL HAVE AN AMBER FLASHING LIGHT AFFIXED TO THE TOP OF THE
- 8. UNLESS OTHERWISE APPROVED BY THE AIRPORT AND/OR THE FAA ADO REPRESENTATIVE:
 - A) NO CONSTRUCTION ACTIVITY OR PARKED EQUIPMENT OR VEHICLES ARE PERMITTED WITHIN A RUNWAY SAFETY AREA WHILE THE RUNWAY IS IN USE. B) NO CONSTRUCTION ACTIVITY OR PARKED EQUIPMENT OR VEHICLES ARE PÉRMITTED WITHIN A TAXIWAY OBJECT FREE AREA WHILE THE TAXIWAY IS IN
- C) NO OPEN EXCAVATIONS ARE PERMITTED WITHIN A RUNWAY OR TAXIWAY SAFETY AREA WHILE THOSE FACILITIES ARE IN USE.
- 9. AIRPORT CLOSURES REQUIRE ADVANCED NOTIFICATION AND APPROVAL BY AIRPORT PERSONNEL. DEPENDING ON THE NATURE OF WORK, IT MAY NOT BE POSSIBLE TO PERFORM WORK WITHIN TAXIWAY OBJECT FREE AREAS AND RUNWAY SAFETY AREAS ON A PULL-BACK BASIS WITHOUT CLOSING THE ADJACENT FACILITY WITH APPROVAL FROM THE AIRPORT MANAGER.
- 10. OPEN FLAME WELDING OR TORCH CUTTING OPERATIONS ARE PROHIBITED. BURNING OF DEBRIS WILL NOT BE ALLOWED ON AIRPORT PROPERTY.
- 11. STOCKPILED MATERIAL SHALL BE CONSTRAINED IN A MANNER TO PREVENT MOVEMENT RESULTING FROM AIRCRAFT PROPELLER BLAST OR WIND CONDITIONS.
- 12. THE CONTRACTOR SHALL WORK WITH THE AIRPORT MANAGER & PROVIDE A 72 HOUR ADVANCE NOTICE BEFORE SCHEDULING ALL RUNWAY AND TAXIWAY OPENINGS/CLOSINGS. THE CONTRACTOR SHALL ALSO HAVE SUITABLE EQUIPMENT APPROVED BY THE ENGINEER AT EACH CROSSING TO KEEP THE CROSSING CLEAN OF ALL DIRT AND DEBRIS SAFE FOR AIRCRAFT TRAFFIC. TAXIWAYS AND EXISTING APRONS SHALL BE KEPT FREE OF ALL DEBRIS, DIRT, ETC., AT ALL TIMES. ANY SPILLAGE OF EXCAVATION OR OTHER MATERIAL SHALL BE CLEANED UP IMMEDIATELY BY THE CONTRACTOR.

- 13. THE CONTRACTOR WILL ARRANGE WITH THE ENGINEER AND AIRPORT MANAGER FOR INSPECTION PRIOR TO OPENING WORK AREAS FOR AIRCRAFT USE INCLUDING ANY RUNWAY OR TAXIWAY THAT HAS BEEN CLOSED FOR WORK, ON OR ADJACENT THERETO, OR THAT HAS BEEN USED FOR A CROSSING POINT OR HAUL ROUTE BY
- 14. CONSTRUCTION DURING THE PROJECT MAY BE HALTED AT ANY TIME BY THE AIRPORT MANAGER IF IT IS DETERMINED TO BE IN THE BEST INTEREST OF AIRPORT ACTIVITIES OR SAFETY. THE CONTRACTOR MAY BE DIRECTED TO REMOVE EQUIPMENT AND/OR EVACUATE THE SITE IN ORDER TO ENABLE AIRCRAFT OPERATIONS. NECESSARY EXTENSIONS IN CONTRACT TIME WILL BE GRANTED OR A STOP WORK ORDER WILL BE ISSUED DUE TO THESE DELAYS.
- 15. THE CONTRACTOR SHALL CEASE EXCAVATION AND CONTACT THE ENGINEER AND AIRPORT MANAGER UPON THE DISCOVERY OF ANY LINES, CONDUITS, OR PIPES THAT HAVE NOT BEEN PREVIOUSLY IDENTIFIED. EXCAVATION SHALL NOT CONTINUE UNTIL THE ITEM IS IDENTIFIED AND/OR APPROVAL IS GRANTED BY THE ENGINEER. ANY UNPLANNED, UNAPPROVED, OR ACCIDENTAL SHUTDOWN OR INTERRUPTION OF SERVICE TO ANY LIGHTING CIRCUIT OR NAVIGATIONAL AID REQUIRES IMMEDIATE NOTIFICATION BY THE CONTRACTOR
- 16. PHASED WORK DEPICTED IN THE PLAN SET AND APPENDIX D: CONSTRUCTION SAFETY AND PHASING PLAN (CSPP), SHOWS A CONSTRUCTION SEQUENCE OF WORK UNDER THIS CONTRACT. THE WORK SHOWN ALLOWS CONCURRENT PROGRESS WITH OTHER TASKS IF APPROVED BY THE ENGINEER. THE CSPP PROVIDES ADDITIONAL GUIDANCE ON OPERATION LIMITATIONS, PHASE CONSTRUCTION ACTIVITIES TO COMPLY WITH ALL CONDITION OF THE SAFETY PLAN, PROJECT PERMIT STIPULATIONS, SUBSECTION 08-04 LIMITATION OF OPERATIONS, AND SUBSECTION 80-07 FAILURE TO COMPLETE ON TIME.
- 17. PHASE I B, II B, AND PHASE IV WORK AND TEMPORARY MARKING AND LIGHTING WILL REQUIRE NIGHTTIME CLOSURES OF THE BREVIG MISSION AIRPORT. NIGHT IS CONSIDERED FROM 6 PM TO 9 AM THE FOLLOWING DAY.
- 18. WORK IN THE OFA THAT CANNOT BE FINISHED WITHIN 30 MINUTES FOR EMERGENCY LANDINGS MUST BE COMPLETED DURING NIGHT CLOSURES. NO HOLES, TRENCHING, STOCKPILES, OR EQUIPMENT ARE ALLOWED IN THE OFA WHILE
- 19. THE CONTRACTOR SHALL BE PREPARED AT ALL TIMES TO REMOVE TEMPORARY CLOSURE MARKINGS AND RUNWAY BARRICADES ON SHORT NOTICE FOR
- 20. PARKING AND MATERIAL STORAGE WILL ONLY BE ALLOWED IN THE STAGING AREAS PER THE APPROVED SAFETY PLAN COMPLIANCE DOCUMENT (SPCD). ANY FILL THE CONTRACTOR ELECTS TO USE FOR STAGING AREA IN EXCESS OF THAT SHOWN ON THE PLANS, REGARDLESS OF TYPE OR QUANTITY, IS SUBSIDIARY TO THE OTHER ITEMS OF WORK BUT NEED TO BE REMOVED UPON COMPLETION. IF THE CONTRACTOR CHOOSES TO USE A LOCATION OTHER THAN WHAT IS SHOWN IN THE CSPP; THE CONTRACTOR MUST PROVIDE WRITTEN APPROVAL FROM THE PROPERTY OWNER / LEASE HOLDER.
- 21. PARTICULAR RESTRICTIONS ARE NOTED IN THE PLAN VIEW OF THE PHASING AND SAFETY FOR EACH PHASE. ALL STATIONS AND OFFSET ARE REFERENCED TO THE
- 22. REPAIR OR REPLACE TEMPORARY LIGHTING, MARKINGS, AND BARRIERS DAMAGED DURING CONSTRUCTION UPON DISCOVERY OR NOTIFICATION.
- 23. PROVIDE HIGHWAY FLAGGERS FOR WORK OFF PROPERTY AS APPROVED AND INCLUDED IN THE APPROVED TRAFFIC CONTROL PLAN. FLAGGERS SHALL BE STATIONED AT ALL MAJOR INTERSECTIONS TO AVOID CONFLICTS WITH CIVILIAN
- 24. ENSURE EQUIPMENT AND PERSONNEL REMAIN A MINIMUM OF 300' FROM THE ACTIVE RUNWAY CENTERLINE AND CLEAR OF PRIMARY SURFACES WHEN AIRPORT IS OPEN FOR OPERATIONS ACCORDING TO DETAIL 3 ON SHEET 17.

GENERAL ELECTRICAL PHASING NOTES:

DURING PHASE I AND PHASE II OF WORK, ELECTRICAL WORK WILL BE REQUIRED TO PROVIDE TEMPORARY LIGHTING TO SUPPORT RUNWAY AND TAXIWAY CLOSURES
REQUIRED WITHIN THE PROJECT LIMITS FOR EACH PHASE OF WORK, AIRPORT BEACON AND WIND CONE SHALL REMAIN OPERATIONAL DURING PHASE I AND II OF CONSTRUCTION. TEMPORARY LIGHTING SHALL BE PROVIDED AS NECESSARY TO MAINTAIN RUNWAY AND TAXIWAY LIGHTING OPERATIONS SIMILAR TO EXISTING OPERATIONS UNTIL THE NEW LIGHTING SYSTEM IS INSTALLED AND FULLY OPERATIONAL. ONCE TEMPORARY LIGHTING SYSTEMS ARE NO LONGER NEEDED AND RUNWAY CLOSURES ARE COMPLETED, THE RUNWAY AND TAXIWAY LIGHTING SYSTEMS SHALL BE TRANSITIONED TO NEW SYSTEM OPERATIONS AND THE TEMPORARY SYSTEMS REMOVED. THE CONTRACTOR IS RESPONSIBLE FOR RELOCATION, REPAIR AND/OR REPLACEMENT OF EQUIPMENT AS NEEDED TO BRING AIRFIELD SYSTEMS INTO NORMAL OPERATIONAL PARAMETERS DURING THIS EFFORT. CONTRACTOR MAY UTILIZE BATTERY POWERED TEMPORARY LIGHT FIXTURES, NEW LIGHT FIXTURES, AND/OR EXISTING LIGHT FIXTURES FOR TEMPORARY LIGHTING SYSTEMS.

LEGEND



HAUL ROAD DEMOLITION AREA

CONSTRUCTION WORK AREA

************ LOW PROFILE BARRICADE (DETAIL 1, SHEET 17)

ILLUMINATED RUNWAY CLOSURE "X" (DETAIL 4, SHEET 17) RUNWAY CENTERLINE

- RUNWAY OBJECT FREE AREA RUNWAY SAFETY AREA

— — — TEMPORARY TAXIWAY

— TAXIWAY OBJECT FREE AREA - TOFA -----— TSA — TAXIWAY SAFETY AREA

"NIGHTTIME ONLY" CONSTRUCTION WORK AREA

PHASE SUMMARY NOTES:

(SEE ELECTRICAL NOTES, SHEETS 29-36, FOR ADDITIONAL DETAILS)

PHASE I A (SHEET 8):

- DEWATER CONSTRUCTION AREAS AROUND RUNWAY 04-22 PRIOR TO CONSTRUCTING LOWER EMBANKMENTS ACCORDING TO THE CORRESPONDING TYPICAL SECTION.
- DEMOLISH THE FIRST 175' OF THE OLD HAUL ROUTE, CREATE BERM AT EDGE OF RPZ, MULCH AND SEED.
- INSTALL JUMPER CONDUCTOR ACROSS RUNWAY 04-22 TO MAINTAIN LIGHTING FOR RUNWAY 11-29. DISABLE RUNWAY 04-22 LIGHTING AND PROVIDE TEMPORARY TAXIWAY
- INSTALL LOW PROFILE BARRICADES AND ILLUMINATED RUNWAY CLOSURE MARKERS ON RUNWAY 04-22.

- DEWATER CONSTRUCTION AREAS AROUND TAXIWAY, APRON. AND NORTHWEST SECTION OF RUNWAY 04-22 PRIOR TO CONSTRUCTING LOWER EMBANKMENTS ACCORDING TO THE
- CORRESPONDING TYPICAL SECTION.

 DISABLE RUNWAY 04-22 LIGHTING AND PROVIDE TEMPORARY TAXIWAY LIGHTING.
- MAINTAIN LOW PROFILE BARRICADES AND ILLUMINATED RUNWAY CLOSURE MARKERS ON RUNWAY 04-22. INSTALL RUNWAY CLOSURE MARKERS ON RUNWAY 11-29.

- PHASE I C (SHEET 10):

 DEWATER CONSTRUCTION AREAS AROUND RUNWAY 11-29
 PRIOR TO CONSTRUCTING LOWER EMBANKMENTS ACCORDING TO THE CORRESPONDING TYPICAL SECTION.
- INSTALL JUMPER CONDUCTOR ACROSS RUNWAY 11-29 TO MAINTAIN LIGHTING FOR RUNWAY 04-22. DISABLE RUNWAY 11-29 LIGHTING
- INSTALL LOW PROFILE BARRICADES AND MAINTAIN ILLUMINATED RUNWAY CLOSURE MARKERS ON RUNWAY

PHASE I D (SHEET 11)

 DEWATER CONSTRUCTION AREAS AROUND THE ACCESS ROAD, INCLUDING THE INFILL AREA, PRIOR TO CONSTRUCTING LOWER EMBANKMENTS ACCORDING TO THE CORRESPONDING TYPICAL SECTIONS.

- PHASE II A (SHEET 12):

 CONSTRUCT UPPER EMBANKMENTS AND APPLY CRUSHED AGGREGATE SURFACE COARSE TO THE EAST AND SOUTHWEST SIDES OF RUNWAY 04-22 ACCORDING TO THE CORRESPONDING TYPICAL SECTION INSTALL NEW LIGHTED WIND CONE ADJACENT TO THE
- EXISTING. REMOVE THE EXISTING LIGHTED WIND CONE ONCE THE NEW LIGHTED WIND CONE IS OPERATIONAL
- DISABLE RUNWAY 04-22 LIGHTING AND PROVIDE TEMPORARY TAXIWAY LIGHTING.
- INSTALL LOW PROFILE BARRICADES AND ILLUMINATED RUNWAY CLOSURE MARKERS ON RUNWAY 04-22.

- PHASE II B (SHEET 13):
 CONSTRUCT UPPER EMBANKMENTS AND APPLY CRUSHED AGGREGATE SURFACE COARSE TO THE NORTHWEST SIDE OF RUNWAY 04-22, THE TAXIWAY, THE RUNWAY INTERSECTION, AND THE APRON DURING NIGHTTIME CLOSURES. ACCORDING TO THE CORRESPONDING TYPICAL SECTION
- DISABLE RUNWAY 04-22 LIGHTING AND PROVIDE TEMPORARY TAXIWAY LIGHTING.
- MAINTAIN LOW PROFILE BARRICADES AND ILLUMINATED RUNWAY CLOSURE MARKERS ON RUNWAY 04-22. INSTALL ILLUMINATED RUNWAY CLOSURE MARKERS ON RUNWAY

- PHASE II C (SHEET 14):

 CONSTRUCT UPPER EMBANKMENTS AND APPLY CRUSHED AGGREGATE SURFACE COARSE TO RUNWAY 11-29 ACCORDING TO THE CORRESPONDING TYPICAL SECTION.
- DISABLE RUNWAY 11-29 LIGHTING.
- INSTALL LOW PROFILE BARRICADES ON RUNWAY 11-29 AND MAINTAIN ILLUMINATED RUNWAY CLOSURE MARKERS ON RUNWAY 11-29.

- CONSTRUCT UPPER EMBANKMENTS AND APPLY CRUSHED AGGREGATE SURFACE COARSE TO THE ACCESS ROAD. APPLY CRUSHED AGGREGATE SURFACE COARSE TO THE
- REMOVE AND REPLACE ROTATING BEACON AND EEB SCHEDULE REPLACEMENT OF ROTATING BEACON TO OCCUR WHEN NO AIRPORT ACTIVITY IS SCHEDULED AND LIMIT DOWNTIME TO THE MAXIMUM EXTEND POSSIBLE.
- INSTALL LOW PROFILE BARRICADES AT EDGE OF APRON

PHASE IV (SHEET 16):

- APPLY DUST PALLIATIVE TO RUNWAYS, TAXIWAY, APRON, AND ACCESS ROAD DURING NIGHTTIME CLOSURES
- INSTALL ILLUMINATED RUNWAY CLOSURE MARKERS ON RUNWAYS 04-22 AND 11-29.

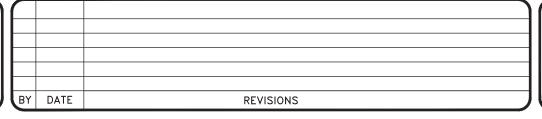
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STATE OF ALASKA

DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES NORTHERN REGION-DESIGN AND CONSTRUCTION-AVIATION

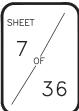




BREVIG MISSION AIRPORT

AIRPORT LIGHTING AND RESURFACING AIP 3-02-0400-XX-XXXX/NFAPT00500

CSPP GENERAL





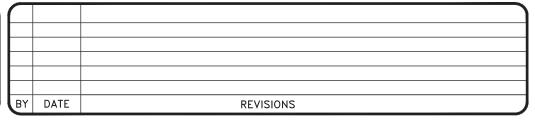
PHASE I A NOTES:

- 1. SCHEDULE TO BE COMPLETED FROM AUGUST 1ST TO SEPTEMBER 30TH OF FIRST CONSTRUCTION SEASON.
- 2. PRE-CONSTRUCTION WORK ITEMS:
 - A. COORDINATE NOTAM ISSUANCE WITH THE AIRPORT MANAGER. (14 DAYS PRIOR TO CONSTRUCTION ACTIVITIES).
 - B. NOTIFY ALL AIR CARRIERS AND OTHER AIRCRAFT PERSONNEL OF PROPOSED CONSTRUCTION ACTIVITIES AND RUNWAY CLOSURES. (45 DAYS PRIOR TO CONSTRUCTION ACTIVITIES).
 - C. CLOSE RUNWAY 04-22.
 - D. COORDINATE PLACEMENT OF LOW-PROFILE BARRICADES AND ILLUMINATED RUNWAY CLOSURE MARKERS WITH AIRPORT MANAGER AND ENGINEER. USE BLUE LIGHTS FOR BARRICADES THAT DELINEATE A TAXIWAY AND RED LIGHTS IN OTHER LOCATIONS.
- 3. CONSTRUCTION WORK ITEMS:
 - A. RUNWAY 11-29 TO REMAIN OPEN THROUGHOUT THIS PHASE OF CONSTRUCTION ACTIVITIES.
 - B. ALL EQUIPMENT AND PERSONNEL MUST EVACUATE ACTIVE RUNWAYS WHEN IN USE BY AIRCRAFT. EQUIPMENT AND PERSONNEL MUST REMAIN OUTSIDE OF THE RUNWAY OBJECT FREE AREAS (ROFA) AND TAXIWAY OBJECT FREE AREAS (TOFA) UNTIL AIRCRAFT OPERATIONS HAVE ENDED.
 - C. MAINTAIN A 35' (MIN.) TEMPORARY TAXIWAY FROM RUNWAY 11-29 TO THE APRON AS SHOWN. CONTRACTOR SHALL VACATE THE TOFA WHEN THE TEMPORARY TAXIWAY IS IN USE. CONTRACTOR TO COORDINATE TEMPORARY TAXIWAY OPERATIONS WITH THE AIRPORT MANAGER. RSA AND TSA MUST BE TO STANDARD IF OPEN.
 - D. AIRPORT FLAGGER IS REQUIRED FOR ENTRANCES TO AIRPORT AREAS OPEN FOR OPERATIONS. CONTRACTOR TO LIMIT CROSSINGS OF ACTIVE AREAS AS MUCH AS POSSIBLE.
 - E. DEWATER ALL CONSTRUCTION FILL AREAS.
 - F. FILL DEWATERED AREAS WITH SPECIFIED MATERIAL IN AREAS SHOWN UTILIZING THE PROPOSED TYPICAL SECTIONS.
 - G. DEMOLISH OLD HAUL ROAD AND CONSTRUCT BERM AS SHOWN.
- 4. POST-PHASE WORK ITEMS:
 - A. COORDINATE REMOVAL AND/OR RELOCATION OF LOW-PROFILE BARRICADES AND ILLUMINATED RUNWAY CLOSURE MARKERS WITH THE AIRPORT MANAGER AND ENGINEER. ENSURE BARRICADES ARE FREE OF SAFETY AREAS AFTER WORK IN PHASE IS COMPLETED.
 - B. ALL EQUIPMENT AND MATERIALS MUST BE REMOVED AT LEAST 30 MINUTES PRIOR TO SCHEDULED REOPENING TO ALLOW CONTRACTOR TO INSPECT WORK AREAS AND RUNWAYS TO ENSURE THAT AREAS ARE CLEAR OF FOREIGN OBJECT DEBRIS (FOD) AND THAT SAFETY AREAS MEET STANDARDS.
- 5. ELECTRICAL WORK/LIGHTING NOTES:
 - A. PROVIDE JUMPER CONDUCTOR ACROSS RUNWAY 04-22 TO MAINTAIN RUNWAY LIGHTING OPERATION FOR RUNWAY 11-29. JUMPER CONDUCTOR TO BE FAA COMPLIANT CONDUCTOR, SIZED TO MATCH EXISTING CONDUCTOR, AND PER SPECIFICATION L-108. CONDUCTOR MAY BE DIRECT BURIED OR ROUTED IN HDPE AT A MINIMUM DEPTH OF 18". LIGHTING FOR RUNWAY 04-22 (INCLUDING THRESHOLDS) WHICH CANNOT BE REMOVED FROM THE LIGHTING CIRCUIT MUST BE COVERED IN SUCH A WAY TO PREVENT LIGHT LEAKAGE DURING NORMAL OPERATION OF RUNWAY 11-29. PROVIDE TEMPORARY TAXIWAY LIGHTING FROM RUNWAY 11-29 TO THE EXISTING APRON AT A MAXIMUM OF 100' SPACING. AT THE END OF TEMPORARY LIGHTING PERIOD, JUMPER CABLES MAY BE REMOVED OR ABANDONED IN PLACE.

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DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES NORTHERN REGION-DESIGN AND CONSTRUCTION-AVIATION

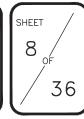




BREVIG MISSION AIRPORT

AIRPORT LIGHTING AND RESURFACING AIP 3-02-0400-XX-XXXX/NFAPT00500

CSPP - PHASE I A



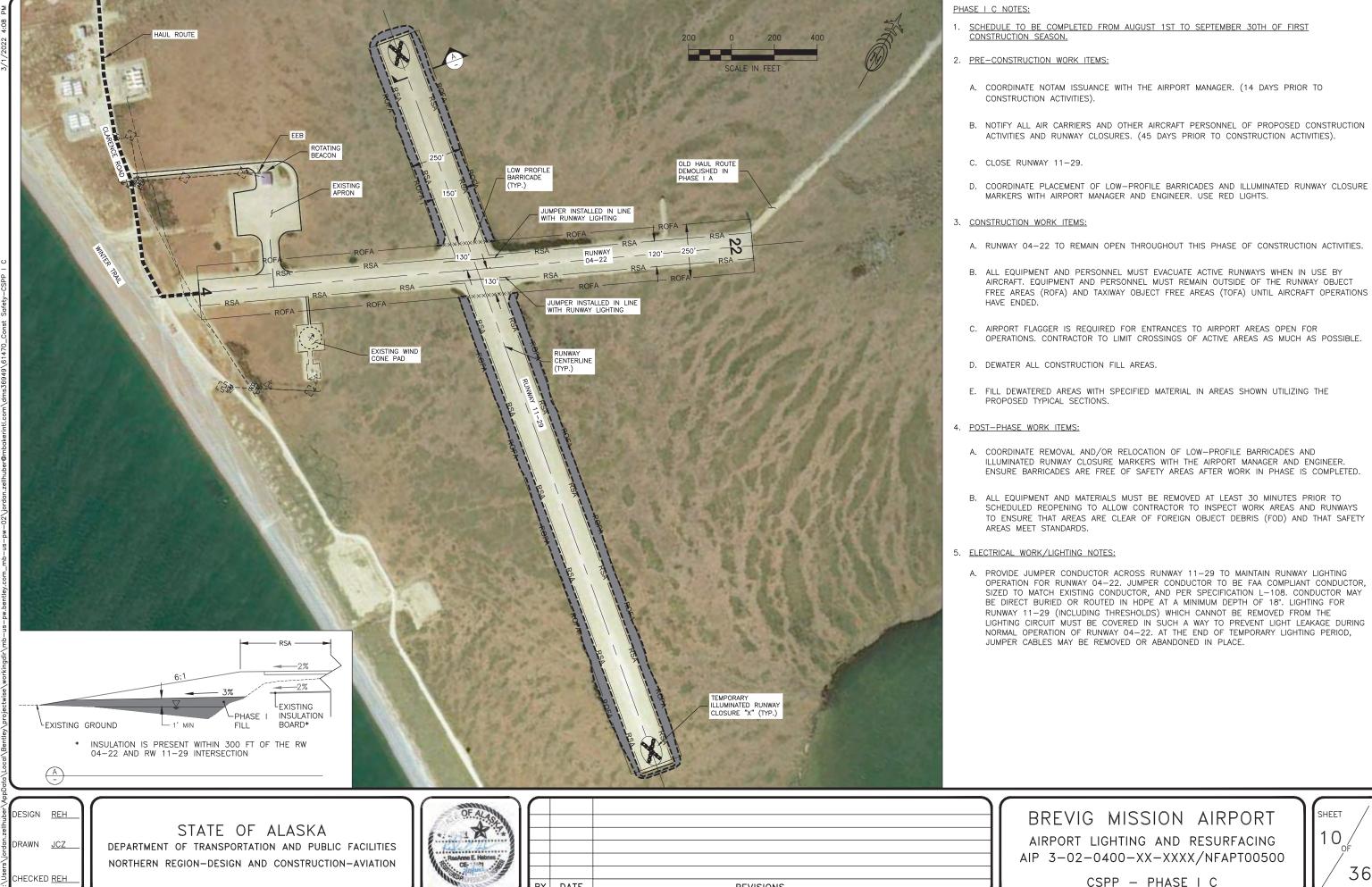


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CSPP - PHASE I B



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CSPP - PHASE I D



PHASE II A NOTES:

- 1. SCHEDULE DURING SPRING, SUMMER, AND FALL OF SECOND CONSTRUCTION SEASON.
- 2. PRE-CONSTRUCTION WORK ITEMS:
 - A. COORDINATE NOTAM ISSUANCE WITH THE AIRPORT MANAGER. (14 DAYS PRIOR TO CONSTRUCTION
 - B. NOTIFY ALL AIR CARRIERS AND OTHER AIRCRAFT PERSONNEL OF PROPOSED CONSTRUCTION ACTIVITIES AND RUNWAY CLOSURES. (45 DAYS PRIOR TO CONSTRUCTION ACTIVITIES).
 - C. CLOSE RUNWAY 04-22.
 - D. COORDINATE PLACEMENT OF LOW-PROFILE BARRICADES AND ILLUMINATED RUNWAY CLOSURE MARKERS WITH AIRPORT MANAGER AND ENGINEER. USE BLUE LIGHTS FOR BARRICADES THAT DELINEATE A TAXIWAY AND RED LIGHTS IN OTHER LOCATIONS.

3. CONSTRUCTION WORK ITEMS:

- A. RUNWAY 11-29 TO REMAIN OPEN THROUGHOUT THIS PHASE OF CONSTRUCTION ACTIVITIES.
- B. ALL EQUIPMENT AND PERSONNEL MUST EVACUATE ACTIVE RUNWAYS WHEN IN USE BY AIRCRAFT. EQUIPMENT AND PERSONNEL MUST REMAIN OUTSIDE OF THE RUNWAY OBJECT FREE AREAS (ROFA) AND TAXIWAY OBJECT FREE AREAS (TOFA) UNTIL AIRCRAFT OPERATIONS HAVE ENDED.
- C. MAINTAIN A 35' (MIN.) TEMPORARY TAXIWAY FROM RUNWAY 11-29 TO THE APRON AS SHOWN. CONTRACTOR SHALL VACATE THE TOFA WHEN THE TEMPORARY TAXIWAY IS IN USE. CONTRACTOR TO COORDINATE TEMPORARY TAXIWAY OPERATIONS WITH THE AIRPORT MANAGER. RSA AND TSA MUST BE TO STANDARD IF OPEN.
- D. AIRPORT FLAGGER IS REQUIRED FOR ALL ENTRANCES TO AIRPORT AREAS OPEN FOR OPERATIONS. CONTRACTOR TO LIMIT CROSSINGS OF ACTIVE AREAS AS MUCH AS POSSIBLE.
- E. PLACE SPECIFIED MATERIAL ON RUNWAY 04-22 AND THE WIND CONE ACCESS ROAD IN AREAS SHOWN UTILIZING THE PROPOSED TYPICAL SECTIONS.
- F. CONTRACTOR TRAFFIC SHALL REMAIN OUTSIDE OF RUNWAY LIGHT LINES AFTER PLACING CRUSHED AGGREGATE SURFACE COURSE.
- G. REPLACE LIGHTED WIND CONE ACCORDING TO SHEET 34 DETAIL.

4. POST-PHASE WORK ITEMS:

- A. COORDINATE REMOVAL AND/OR RELOCATION OF LOW-PROFILE BARRICADES AND ILLUMINATED RUNWAY CLOSURE MARKERS WITH THE AIRPORT MANAGER AND ENGINEER, ENSURE BARRICADES ARE FREE OF SAFETY AREAS AFTER WORK IN PHASE IS COMPLETED.
- B. ALL EQUIPMENT AND MATERIALS MUST BE REMOVED AT LEAST 30 MINUTES PRIOR TO SCHEDULED REOPENING TO ALLOW CONTRACTOR TO INSPECT WORK AREAS, TEMPORARY TAXIWAY, APRON AND RUNWAY TO ENSURE THAT AREAS ARE CLEAR OF FOREIGN OBJECT DEBRIS (FOD) AND THAT SAFETY ARES MEET STANDARDS.

5. ELECTRICAL WORK/LIGHTING NOTES:

- A. PROVIDE JUMPER CONDUCTOR ACROSS RUNWAY 04-22 TO MAINTAIN RUNWAY LIGHTING OPERATION FOR RUNWAY 11-29. JUMPER CONDUCTOR TO BE FAA COMPLIANT CONDUCTOR, SIZED TO MATCH EXISTING CONDUCTOR, AND PER SPECIFICATION L-108. CONDUCTOR MAY BE DIRECT BURIED OR ROUTED IN HDPE AT A MINIMUM DEPTH OF 18". LIGHTING FOR RUNWAY 04-22 (INCLUDING THRESHOLDS) WHICH CANNOT BE REMOVED FROM THE LIGHTING CIRCUIT MUST BE COVERED IN SUCH A WAY TO PREVENT LIGHT LEAKAGE DURING NORMAL OPERATION OF RUNWAY 11-29. PROVIDE TEMPORARY TAXIWAY LIGHTING FROM RUNWAY 11-29 TO THE EXISTING APRON AT A MAXIMUM OF 100' SPACING. AT THE END OF TEMPORARY LIGHTING PERIOD, JUMPER CABLES MAY BE REMOVED OR ABANDONED IN PLACE.
- B. EXISTING WIND CONE SHALL NOT BE DEMOLISHED UNTIL NEW WIND CONE IS INSTALLED AND OPERATIONAL. LOCATE NEW WIND CONE DIRECTLY ADJACENT TO EXISTING WIND CONE.

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NORTHERN REGION-DESIGN AND CONSTRUCTION-AVIATION



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BREVIG MISSION AIRPORT

AIRPORT LIGHTING AND RESURFACING AIP 3-02-0400-XX-XXXX/NFAPT00500

CSPP - PHASE II A

SHEET



PHASE II B NOTES:

- 1. SCHEDULE DURING SPRING, SUMMER, AND FALL OF SECOND CONSTRUCTION SEASON.
- 2. PRE-CONSTRUCTION WORK ITEMS:
 - A. COORDINATE NOTAM ISSUANCE WITH THE AIRPORT MANAGER. (14 DAYS PRIOR TO CONSTRUCTION ACTIVITIES).
 - B. NOTIFY ALL AIR CARRIERS AND OTHER AIRCRAFT PERSONNEL OF PROPOSED CONSTRUCTION ACTIVITIES AND RUNWAY CLOSURES. (45 DAYS PRIOR TO NIGHT CONSTRUCTION ACTIVITIES).
 - C. CLOSE RUNWAYS, TAXIWAYS, AND APRON.
 - D. COORDINATE PLACEMENT OF LOW-PROFILE BARRICADES AND ILLUMINATED RUNWAY CLOSURE MARKERS WITH AIRPORT MANAGER AND ENGINEER. USE RED LIGHTS.
- 3. CONSTRUCTION WORK ITEMS:
 - A. ALL WORK IN THIS PHASE TO TAKE PLACE DURING NIGHTTIME CLOSURES.
 - B. RUNWAY 11-29 MUST BE AVAILABLE WITHIN 30 MINUTES OF NOTICE FOR EMERGENCY MEDEVAC OPERATIONS.
 - C. CONTRACTOR WILL BE RESPONSIBLE FOR REMOVAL OF ALL EQUIPMENT AND CONSTRUCTION PERSONNEL FROM RUNWAY 11-29 WITHIN 30 MINUTES OF THE MEDEVAC NOTICE.
 - D. CONTRACTOR WILL BE RESPONSIBLE TO MAINTAIN A MAXIMUM 2% SLOPE WITHIN THE RUNWAY INTERSECTION, AND RUNWAY 04-22/APRON WORK AREAS AT ALL TIMES. THIS WILL ENSURE THAT ANY MEDEVAC PLANES REQUIRING THE USE OF RUNWAY 11-29 WILL BE ABLE TO SAFELY LAND AND TRAVEL THROUGH THESE AREAS.
 - E. ALL CONSTRUCTION ACTIVITIES AT THE INTERSECTION OF THE TWO RUNWAYS NEEDS TO BE COORDINATED WITH THE AIRPORT MANAGER.
 - F. PLACE SPECIFIED MATERIAL ON BOTH RUNWAYS AND APRON IN AREAS SHOWN UTILIZING THE PROPOSED TYPICAL SECTIONS.
 - G. AT THE END OF EACH NIGHTTIME CLOSURE IF RUNWAY IS NOT TO FINAL GRADE CONSTRUCT TEMPORARY TRANSITIONS ACCORDING TO DETAIL 2 ON SHEET 17. TRANSITIONS MUST EXTEND THE FULL WIDTH OF THE RW AND TW AND BE APPROVED BY THE ENGINEER PRIOR TO OPENING FOR AIRCRAFT OPERATIONS.
 - H. CONTRACTOR TRAFFIC SHALL REMAIN OUTSIDE OF RUNWAY LIGHT LINES AFTER PLACING CRUSHED AGGREGATE SURFACE COURSE.
- 4. POST-PHASE WORK ITEMS:
 - A. COORDINATE REMOVAL AND/OR RELOCATION OF LOW-PROFILE BARRICADES AND ILLUMINATED RUNWAY CLOSURE MARKERS WITH THE AIRPORT MANAGER AND ENGINEER. ENSURE BARRICADES ARE FREE OF SAFETY AREAS AFTER WORK IN PHASE IS COMPLETED.
 - B. ALL EQUIPMENT AND MATERIALS MUST BE REMOVED AT LEAST 30 MINUTES PRIOR TO SCHEDULED REOPENING TO ALLOW CONTRACTOR TO INSPECT WORK AREAS AND RUNWAYS TO ENSURE THAT AREAS ARE CLEAR OF FOREIGN OBJECT DEBRIS (FOD) AND THAT SAFETY AREAS MEET STANDARDS.
- 5. ELECTRICAL WORK/LIGHTING NOTES:
 - A. PROVIDE JUMPER CONDUCTOR ACROSS RUNWAY 04-22 TO MAINTAIN RUNWAY LIGHTING OPERATION FOR RUNWAY 11-29. JUMPER CONDUCTOR TO BE FAA COMPLIANT CONDUCTOR, SIZED TO MATCH EXISTING CONDUCTOR, AND PER SPECIFICATION L-108. CONDUCTOR MAY BE DIRECT BURIED OR ROUTED IN HDPE AT A MINIMUM DEPTH OF 18". LIGHTING FOR RUNWAY 04-22 (INCLUDING THRESHOLDS) WHICH CANNOT BE REMOVED FROM THE LIGHTING CIRCUIT MUST BE COVERED IN SUCH A WAY TO PREVENT LIGHT LEAKAGE DURING NORMAL OPERATION OF RUNWAY 11-29. PROVIDE TEMPORARY TAXIWAY LIGHTING FROM RUNWAY 11-29 TO THE EXISTING APRON AT A MAXIMUM OF 100' SPACING. AT THE END OF TEMPORARY LIGHTING PERIOD, JUMPER CABLES MAY BE REMOVED OR ABANDONED IN PLACE

NORTHERN REGION-DESIGN AND CONSTRUCTION-AVIATION

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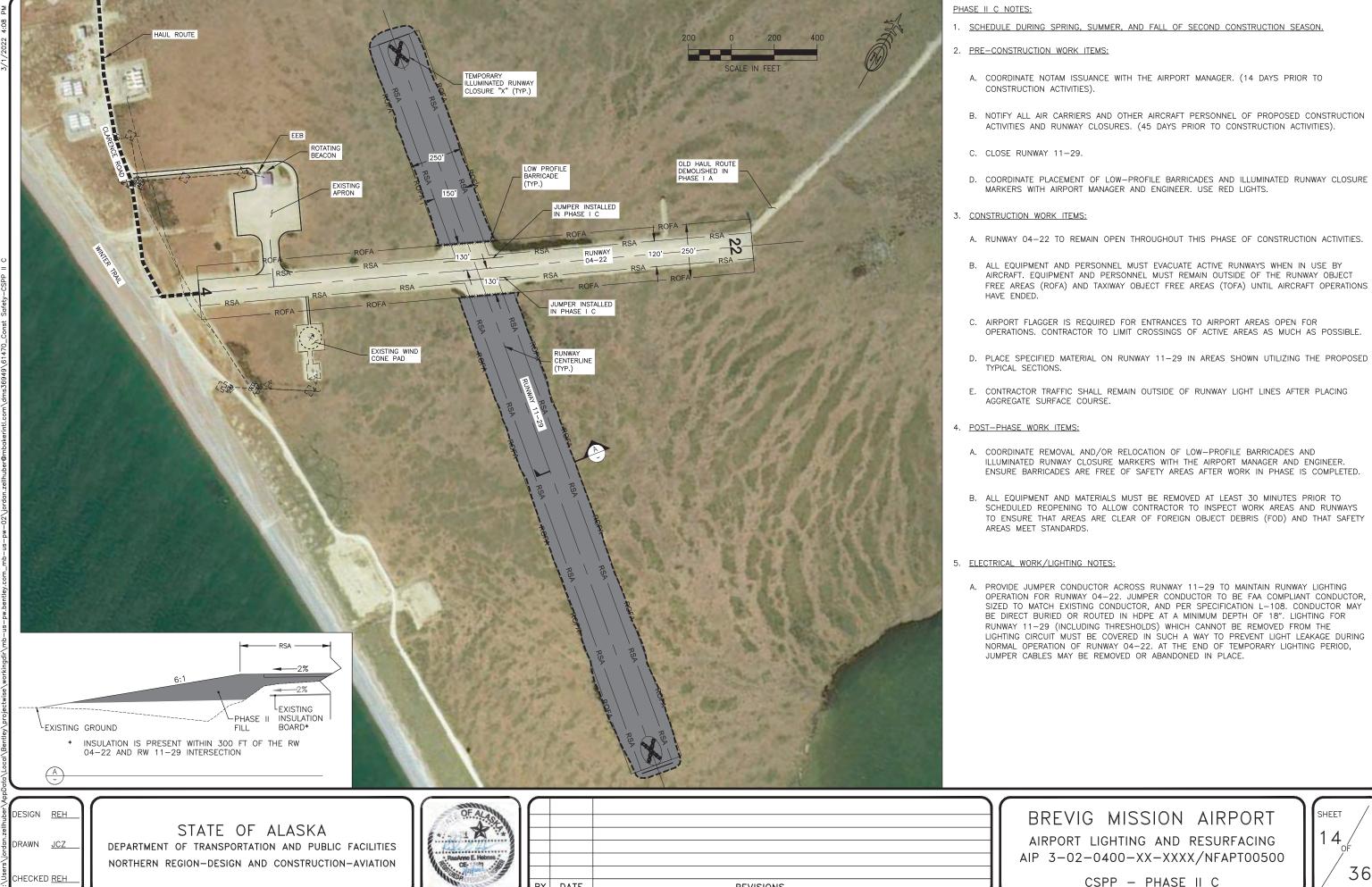
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BREVIG MISSION AIRPORT

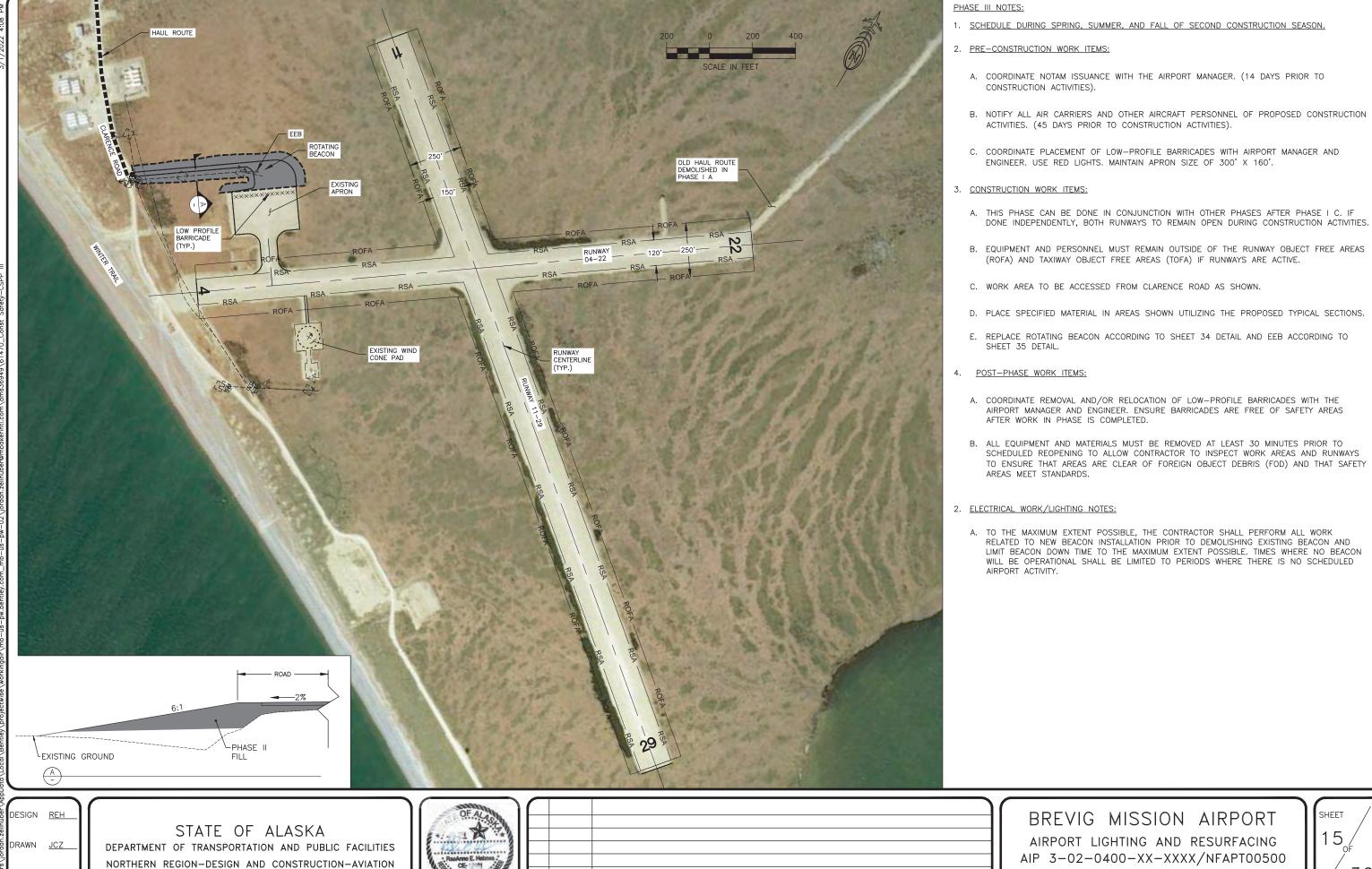
AIRPORT LIGHTING AND RESURFACING AIP 3-02-0400-XX-XXXX/NFAPT00500

CSPP - PHASE II B

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CSPP - PHASE III



PHASE IV NOTES:

- 1. SCHEDULE TO BE COMPLETED AFTER ALL OTHER PHASES HAVE BEEN COMPLETED AND PRIOR TO SEPTEMBER 1ST. IF WEATHER IMPEDES THE APPLICATION OF DUST PALLIATIVE IT MAY BE APPLIED BETWEEN MAY 1ST AND AUGUST 31ST OF THE FOLLOWING YEAR.
- 2. PRE-CONSTRUCTION WORK ITEMS:
 - A. COORDINATE NOTAM ISSUANCE WITH THE AIRPORT MANAGER. (14 DAYS PRIOR TO CONSTRUCTION ACTIVITIES).
 - B. NOTIFY ALL AIR CARRIERS AND OTHER AIRCRAFT PERSONNEL OF PROPOSED CONSTRUCTION ACTIVITIES AND RUNWAY CLOSURES. (45 DAYS PRIOR TO NIGHT CONSTRUCTION ACTIVITIES).
 - C. CLOSE RUNWAYS, TAXIWAY, AND APRON.
 - D. DUST PALLIATIVE MUST BE APPLIED PRIOR TO SEPTEMBER 1ST. THE GROUND MUST BE DRY (NO RAIN WITHIN 48 HOURS OF APPLICATION OR PREDICTED WITHIN 48 HOURS AFTER APPLICATION). DUST PALLIATIVE CAN NOT BE APPLIED DURING WINDY CONDITIONS.
 - E. COORDINATE PLACEMENT OF RUNWAY CLOSURE MARKERS WITH AIRPORT MANAGER.
- 3. CONSTRUCTION WORK ITEMS:
 - A. ALL WORK IN THIS PHASE TO TAKE PLACE DURING NIGHTTIME CLOSURES.
 - B. RUNWAYS WILL TEMPORARILY CLOSE WHILE WORK ON IS UNDERWAY. HOWEVER, ONE RUNWAY AND ACCESS TO THE APRON MUST BE AVAILABLE WITHIN 30 MINUTES OF NOTICE FOR EMERGENCY MEDEVAC OPERATIONS.
 - C. ALL EQUIPMENT AND PERSONNEL MUST EVACUATE ACTIVE RUNWAYS WHEN IN USE BY AIRCRAFT. EQUIPMENT AND PERSONNEL MUST REMAIN OUTSIDE OF THE RUNWAY OBJECT FREE AREAS (ROFA) AND TAXIWAY OBJECT FREE AREAS (TOFA) UNTIL AIRCRAFT OPERATIONS HAVE ENDED.
 - D. CONTRACTOR WILL BE RESPONSIBLE FOR REMOVAL OF ALL EQUIPMENT AND CONSTRUCTION PERSONNEL FROM OPERATIONAL RUNWAY WITHIN 30 MINUTES OF THE MEDEVAC NOTICE.
 - E. ALL CONSTRUCTION ACTIVITIES ON BOTH RUNWAYS SHALL BE COORDINATED WITH THE AIRPORT MANAGER.
 - F. PLACE DUST PALLIATIVE IN AREAS SHOWN.
- 4. POST-PHASE WORK ITEMS:
 - A. COORDINATE REMOVAL AND/OR RELOCATION OF RUNWAY CLOSURE MARKERS WITH THE AIRPORT MANAGER AND ENGINEER. ENSURE BARRICADES ARE FREE OF SAFETY AREAS AFTER WORK IN PHASE IS COMPLETED.
 - B. ALL EQUIPMENT AND MATERIALS MUST BE REMOVED AT LEAST 30 MINUTES PRIOR TO SCHEDULED REOPENING TO ALLOW CONTRACTOR TO INSPECT WORK AREAS, TEMPORARY TAXIWAY, APRON AND RUNWAY TO ENSURE THAT AREAS ARE CLEAR OF FOREIGN OBJECT DEBRIS (FOD) AND THAT SAFETY AREAS MEET STANDARDS.

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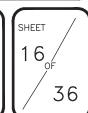


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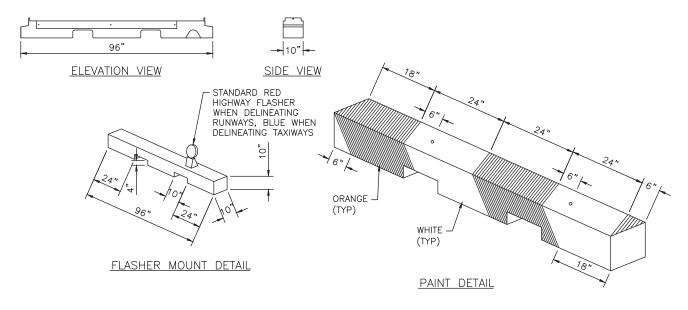
BREVIG MISSION AIRPORT

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CSPP - PHASE IV



- DISABLE AND PREVENT THE OPERATION OF RUNWAY FDGE LIGHTS AND RUNWAY THRESHOLD LIGHTS DURING CLOSURE OF THE RUNWAY.
- HAZARD MARKER BARRIERS ARE NOT TO BE PLACED WITHIN THE OFZ OF THE ACTIVE RUNWAY. CONSIDER PROPELLER BLAST WHEN PLACING
- 4. SEE CSPP SECTION 16 FOR SPACING REQUIREMENTS.
- THE REQUIRED LIGHTS TO DELINEATE RUNWAYS MUST BE RED AND THE LIGHTS TO DELINEATE TAXIWAYS MUST BE BLUE. LIGHT MAY EITHER BE LUMINANCE MUST BE AT LEAST FIVE CANDELAS EFFECTIVE INTENSITY AND FLASH AT A RATE OF FROM 55 TO 160 FLASHES PER MINUTE. THE RED BARRICADE LIGHTS SHALL BE SOLAR 360° OMNIDIRECTIONAL AND MAY NOT BE SPACED GREATER THAN 10' APART.
- LIGHTS MUST BE OPERATED BETWEEN SUNSET AND SUNRISE AND DURING PERIODS OF LOW VISIBILITY WHENEVER THE AIRPORT IS OPEN FOR
- CONTRACTOR SHALL MAINTAIN BARRICADE LIGHTS AND FLAGS AT ALL TIMES DURING CONSTRUCTION. EACH BARRICADE MUST HAVE BOTH LIGHTS OPERATING AT ALL TIMES.
- BARRICADES SHALL BE HELD IN PLACE WITH SAND BAGS OR WATER FILLED TO PREVENT MOVEMENT FROM PROPELLER BLAST. IF SANDBAGS ARE USED, SANDBAGS SHALL BE EITHER ORANGE



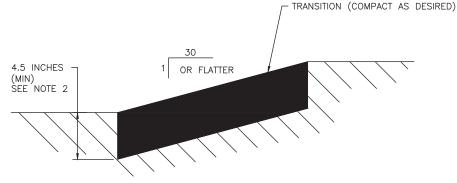
LOW PROFILE BARRICADE DETAILS 8,9,10,11,12,13,14,15

R/W € 300' EQUIPMENT AND PERSONS SHALL REMAIN A MINIMUM OF 300' FROM THE OFA ACTIVE RUNWAY EDGE OF CENTERLINE WHEN PRIMARY RUNWAY IS ACTIVE SURFACE 125' RSA TRANSITIONAL ELEVATION OF THE OFZ & SURFACE PRIMARY SURFACE EQUALS THE R/W & - EXISTING GROUND ELEVATION OF THE OFA EQUALS

VERTICAL RELATION OF THE RSA, OFZ, OFA, PRIMARY AND TRANSITIONAL SURFACES

SAFETY ZONE CLEARANCE DETAIL 8,9,10,11,12,13,14,15,16

THE EDGE OF THE RSA

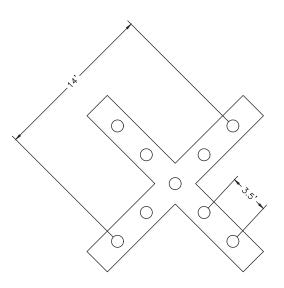


NOTES:

1. TEMPORARY TRANSITIONS WILL BE SMOOTH AND FREE OF RUTS AND APPROVED BY THE ENGINEER PRIOR TO OPENING FOR AIRCRAFT OPERATIONS.

THICKNESS TO MATCH LAYER THICKNESS, OR AS NEEDED TO OBTAIN COMPACTION AS DIRECTED. USE THE MATERIAL SPECIFIED IN THE TYPICAL SECTION TO BUILD THE TEMPORARY TRANSITIONS. ALL ADDITIONAL WORK REQUIRED TO CONSTRUCT TEMPORARY TRANSITIONS IS SUBSIDIARY TO THE MATERIAL BEING PLACED. SUCH WORK MAY INCLUDE PLACEMENT, SCARIFYING, GRADING, COMPACTING, REMOVAL, REPLACEMENT, RE-COMPACTING, RE-GRADING, OR OTHER WORK AS REQUIRED TO ACCEPTABLY INCORPORATE MATERIALS INTO THE SUBSEQUENT WORK. NO SEPARATE MEASUREMENT OR PAYMENT WILL BE MADE.

TEMPORARY TRANSITION DETAIL . 13



ILLUMINATED RUNWAY CLOSURE MARKER DETAIL 8,9,10,12,13,14,16

NOTES:

1. PLACE ILLUMINATED RW CLOSURE MARKERS AT EACH END OF THE CLOSED RW. ALIGN MARKERS ON THE CENTERLINE OF THE RSA OR AS DIRECTED BY THE ENGINEER.

PORTABLE AND CAPABLE OF BEING TOWED.

ENERGIZED BY A PORTABLE POWER SUPPLY CAPABLE OF A MINIMUM OF 24 HOURS CONTINUOUS OPERATION.
 SIMULTANEOUSLY FLASH ALL LIGHT SOURCES AT 2.5 SECONDS ON

2.5 SECONDS OFF.

5. CAPABLE OF SWITCHING BETWEEN DAY (70,000 CANDELA) AND NIGHT (2,000 CANDELA) INTENSITIES.

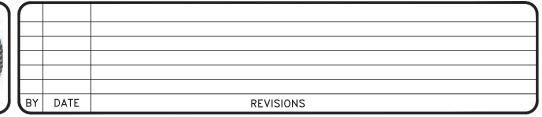
6. ALLOWING TILTING TO AN OPTIMUM ANGLE OF 5 DEGREES FROM

7. REFER TO AC 150/5345-55A FOR ADDITIONAL REQUIREMENTS.

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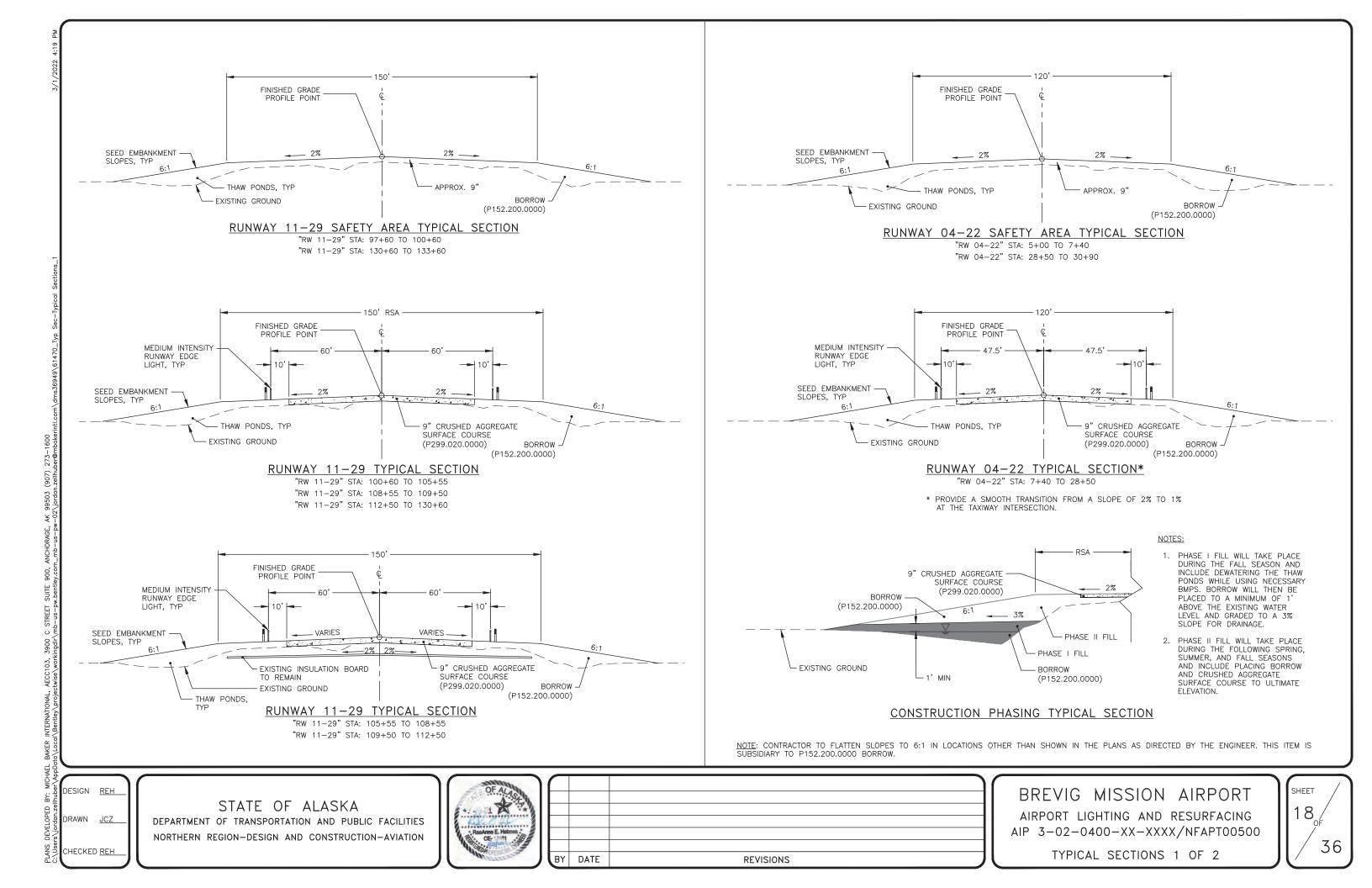
AIRPORT LIGHTING AND RESURFACING AIP 3-02-0400-XX-XXXX/NFAPT00500

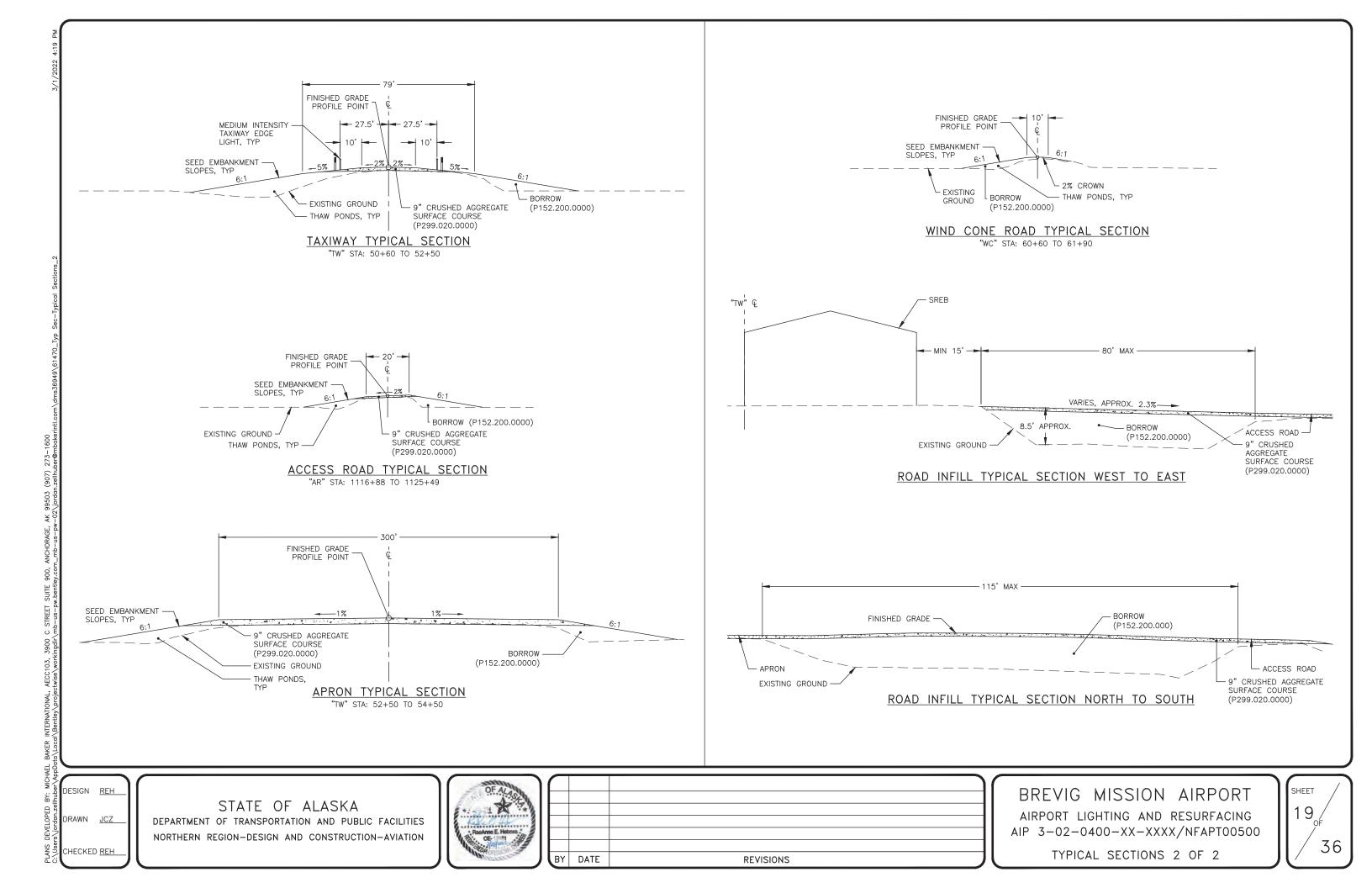
SAFETY PLAN DETAILS

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NO.	STATION	LT.	RT.	CODE	LEGEND		(INCHE	S)	BRACED	FRAMED	(SQ.FT.)	(FT.)	DIK.	TYPE	SIZE (INCHES)	NO.	REMARKS																														
1	"AR" STA 1125+49		×	SPECIAL 2	DANGER KEEP OFF RUNWAY	48	Х	30		×	10.00		N	PST	2.5	2	LOCATION IS APPROXIMATE AND MAY REQUIRE FIELD ADJUSTMENT																														
	AIX SIA 1125149		^	SPECIAL 1	AUTHORIZED PERSONNEL ONLY	30	Х	42			8.75		N	131	2.0	2	EGONION IS ALL NONIMATE AND MAN NEWSTRE TIELD ABOUGHMENT																														
2	"AR" STA 1117+25	X		R1-1	STOP	30	X	30	X		6.25		Е	PST	2.5	1	LOCATION IS APPROXIMATE AND MAY REQUIRE FIELD ADJUSTMENT																														
3	"AR" STA 1118+00		Х	R2-1	SPEED LIMIT 15MPH	24	X	30	X		5		W	PST	2.5	1	LOCATION IS APPROXIMATE AND MAY REQUIRE FIELD ADJUSTMENT																														
4	"AR STA 1125+06	Х		R2-1	SPEED LIMIT 15MPH	24	X	30	X		5		S	PST	2.5	1	LOCATION IS APPROXIMATE AND MAY REQUIRE FIELD ADJUSTMENT																														
	SUBTOTAL = 35																																														

SIGN SUMMARY ABBREVIATIONS

LOG. NO. LT. RT. SIGN LOCATION NUMBER MOUNTING HEIGHT LEFT DIR. DIRECTION PST PERFORATED STEEL TUBE RIGHT HORIZONTAL VERTICAL

FASTENE	R SPECIFICATIO	N TABLE		
FASTENERS	STEEL	STAINLESS STEEL		
BOLTS	ASTM A 307	ASTM F 593		
NUTS	ASTM A 563	ASTM F 594		
WASHERS	ASTM A 844	ASTM A 480		

NOTE:

THESE SPECIFICATIONS APPLY TO ALL SIGN FASTENER HARDWARE ON THE PROJECT.

- 1. SIGN LOCATIONS MAY BE ADJUSTED BY THE ENGINEER. STAKE SIGN LOCATIONS 7 DAYS
- 2. MOUNTING HEIGHTS ARE PER STANDARD PLAN S-05.02 UNLESS OTHERWISE NOTED. FABRICATE ALL SIGNS FROM 0.125" THICK ALUMINUM SHEETING.
- 3. DETERMINE POST LENGTHS IN THE FIELD. DO NOT EXTEND POSTS ABOVE TOP OF SIGN.
- 4. INSTALL PST SIGN POSTS WITH SOIL EMBEDMENT. EMBED PST IN SLEEVE 12"-24". PER STANDARD PLAN S-30.05 DETAIL ON SHEET 20. ATTACH THE SIGN POST TO THE SLEEVE USING GALVANIZED \S^n BOLT, NUT, SPLIT LOCK WASHER AND TWO FLAT WASHERS.
- 5. 1/4" X 1 1/2" ALUMINUM ALLOY 6061-T6 BAR MAY ALSO BE USED TO FABRICATE SIGN BRACES AS SHOWN STANDARD PLAN S-01.02.
- 6. ATTACH ALL SIGNS TO THEIR SUPPORTS WITH 3/8" BOLTS, EXCEPT ATTACH UNFRAMED SIGNS TO PST POSTS WITH ALUMINUM DRIVE RIVETS. WIND WASHERS ARE NOT REQUIRED WITH DRIVE RIVETS. INCLUDE SPLIT LOCK WASHERS WHEN BOLTS ARE USED.
- 7. ALL FASTENER HARDWARE SHALL MEET THE REQUIREMENTS OF THE "FASTENER SPECIFICATION TABLE" ON THIS SHEET.
- 8. MAINTAIN EXISTING SIGNS UNTIL NEW SIGNS ARE INSTALLED. DO NOT LEAVE DUPLICATE OR CONFLICTING SIGNING UP AT ANY TIME.
- 9. LOCATE AND PROTECT ALL NEW AND EXISTING UNDERGROUND UTILITIES, INCLUDING BUT NOT LIMITED TO: PIPELINES, INTERCONNECT CABLES, SIGNAL SYSTEMS, LIGHTING SYSTEMS, STORM AND SANITARY SEWERS, WATER SYSTEMS, AND TELEPHONE AND ELECTRICAL CABLES, PRIOR TO INSTALLING SIGN POSTS. NOT ALL EXISTING UTILITIES MAY BE SHOWN

6" LETTERS, RED

4" LETTERS, BLACK

BORDER, BLACK, 3/4" WIDE, BLACK

1' CIRCLE (OUTSIDE DIAMETER) W/SLASH. 1-3/8" THICK, RED

BACKGROUND, WHITE

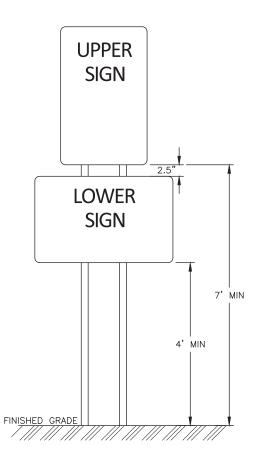
VEHICLES/PERSON SYMBOLS, BLACK



SPECIAL SIGN 2 DETAIL



SPECIAL SIGN 1 DETAIL



SIGN MOUNTING HEIGHT DETAIL

DESIGN <u>REH</u> DRAWN <u>JCZ</u>

CHECKED <u>REH</u>

STATE OF ALASKA

DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES NORTHERN REGION-DESIGN AND CONSTRUCTION-AVIATION

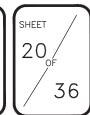


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BREVIG MISSION AIRPORT

AIRPORT LIGHTING AND RESURFACING AIP 3-02-0400-XX-XXXX/NFAPT00500

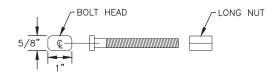
SIGNING DETAILS 1 OF 2



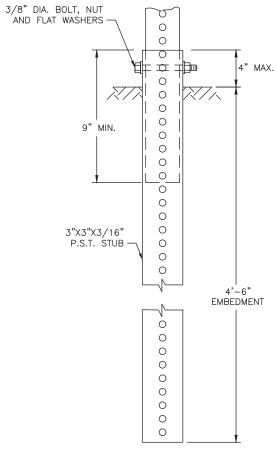
FRAMED SIGN ATTACHMENT BRACKETS

NOTES

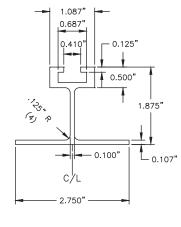
- ATTACH FRAMED SIGNS TO POSTS WHEREVER THE FRAMES CROSS THE POSTS. AT EACH CROSSING, ATTACH THE SIGN USING TWO POST CLIPS ON W-SHAPE POSTS, A U-SHAPED BRACKET ON PIPES OR A BRACKET WITH SQUARE CORNERS ON TUBES.
- 2. THE TUBE BRACKETS USED ON EVEN INCH SIZE TUBES MAY ALSO BE USED ON TUBES 1/2" SMALLER IN SIZE.
- 3. THE BRACKET DETAILS SHOWN INDICATE GENERAL DESIGNS ONLY. DESIGNS MAY VARY BY MANUFACTURER.
- 4. ALUMINUM ALLOY 6061—T6 SHALL BE USED FOR ZEE SHAPE FRAMING AND RIVETS.



3/8" WINDBEAM BOLT AND LONG NUT



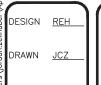
SLEEVE TYPE SOIL EMBEDMENT SIGN FOUNDATION



EXTRUDED ALUMINUM WINDBEAM

NOTES

- ALUMINUM ALLOY 6061-T6 SHALL BE USED FOR EXTRUDED WINDBEAM AND RIVETS.
- 2. ATTACH SIGNS TO WINDBEAM WITH 3/16" RIVETS AT 4" STAGGERED SPACING.



CHECKED <u>REH</u>

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DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

NORTHERN REGION—DESIGN AND CONSTRUCTION—AVIATION

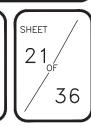


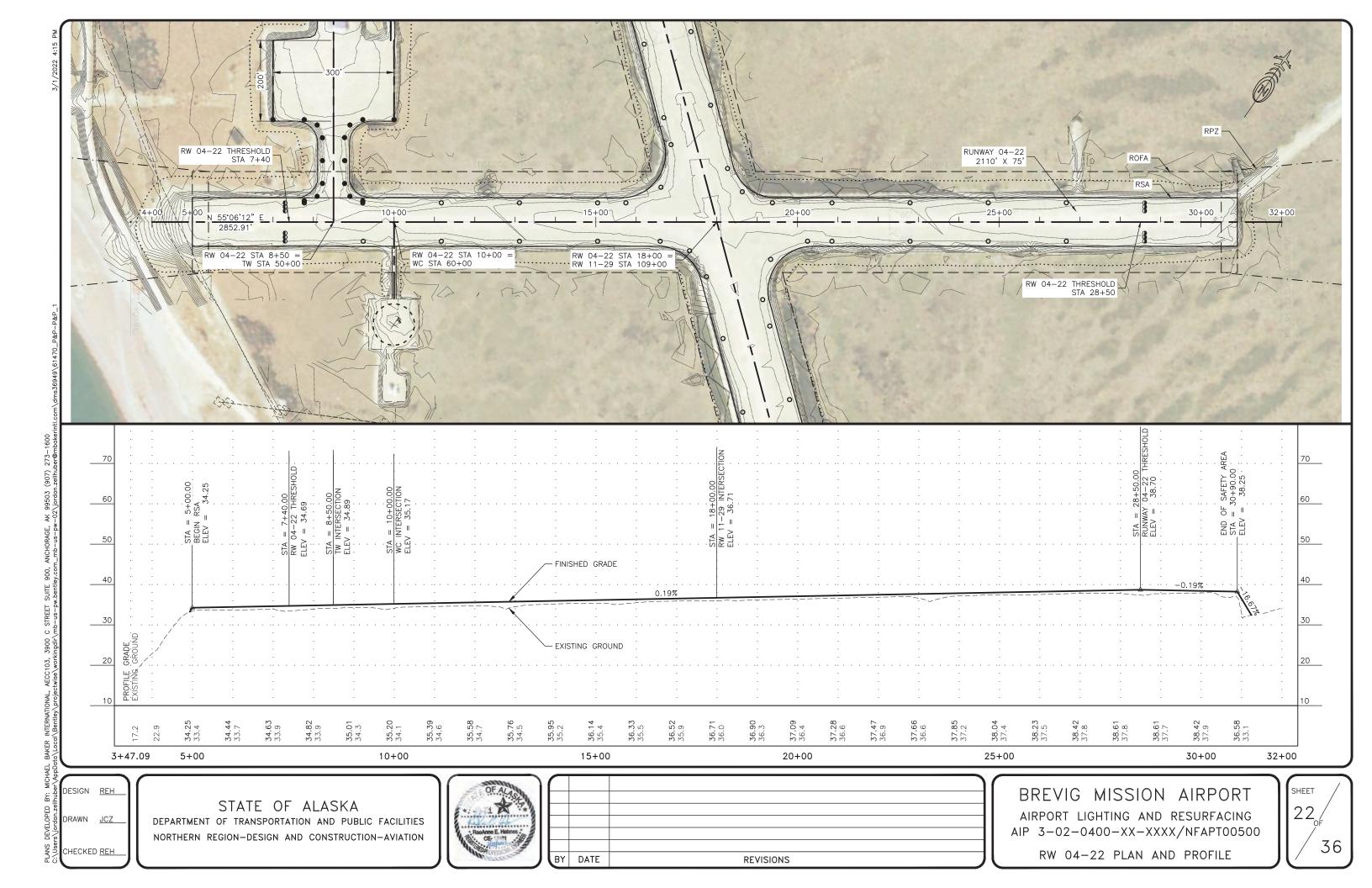
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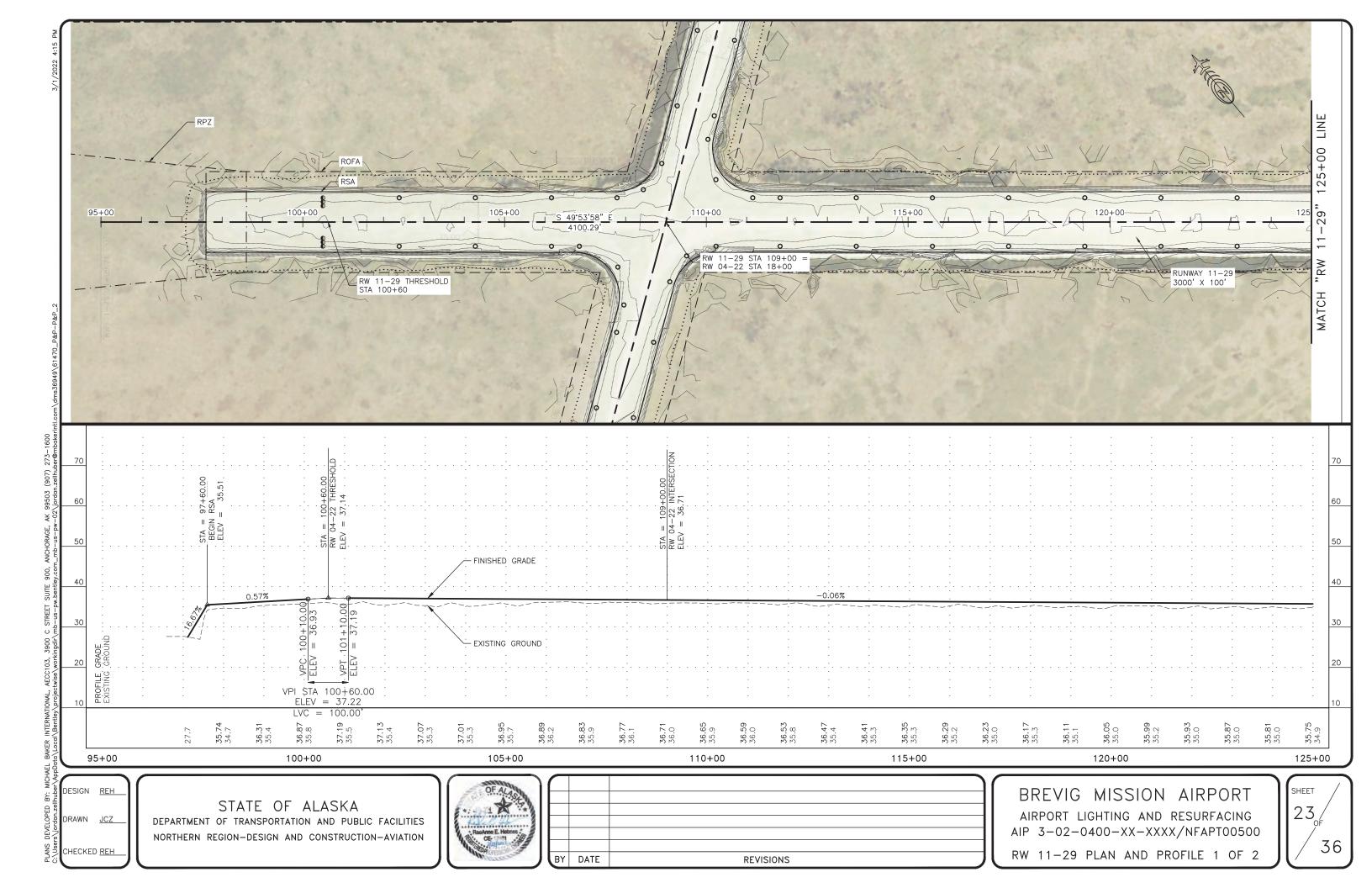
BREVIG MISSION AIRPORT

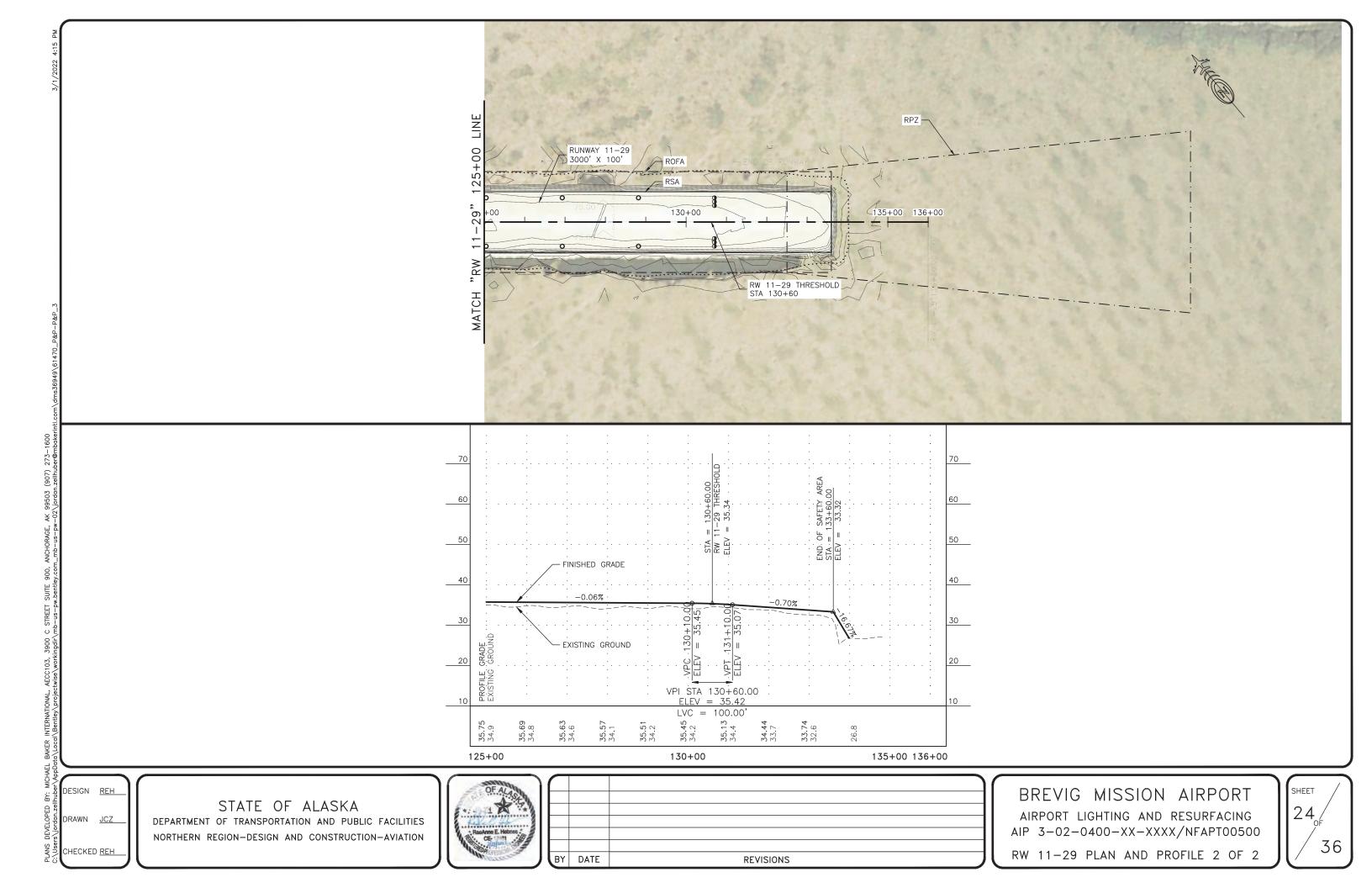
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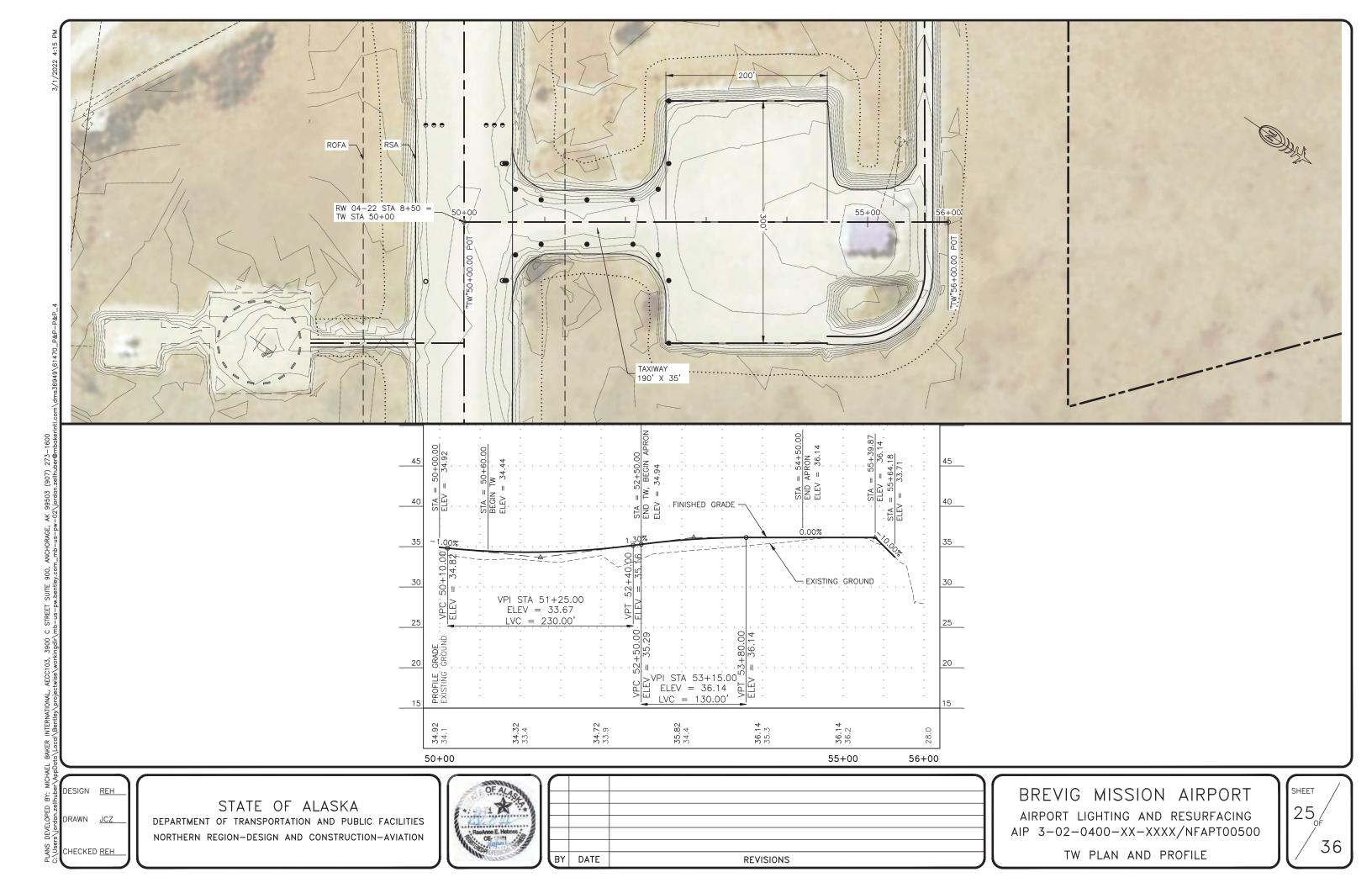
SIGNING DETAILS 2 OF 2

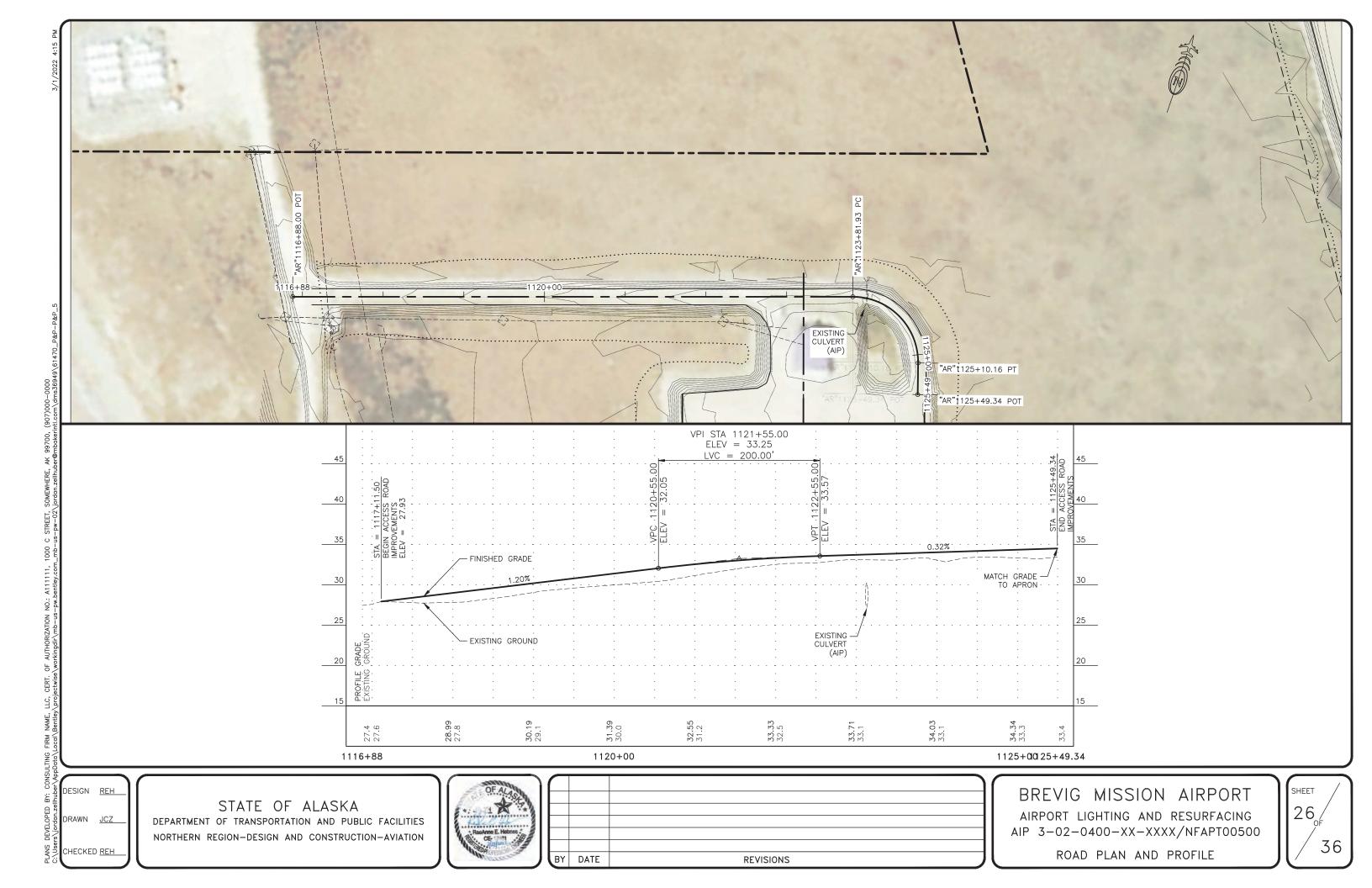


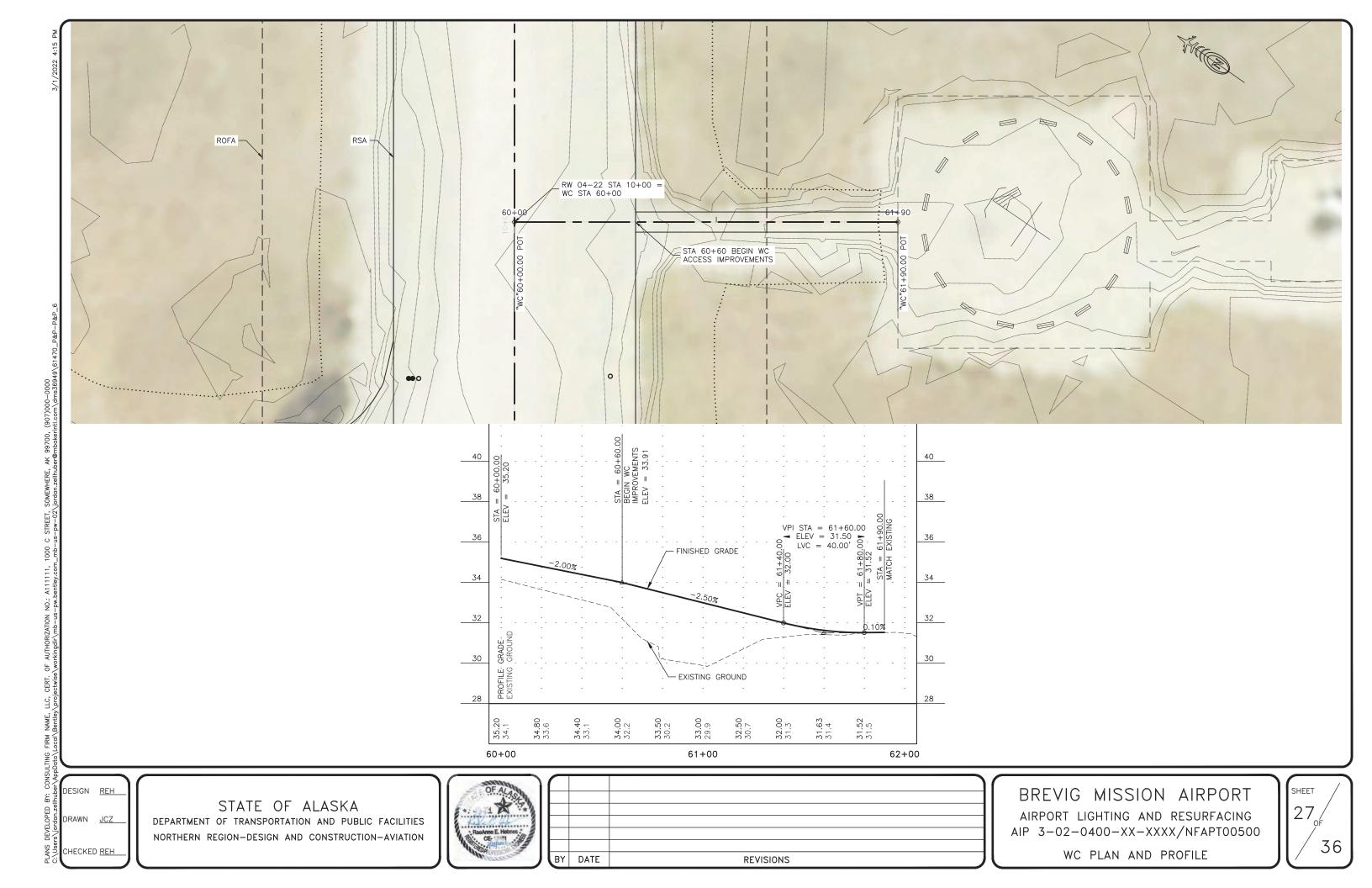


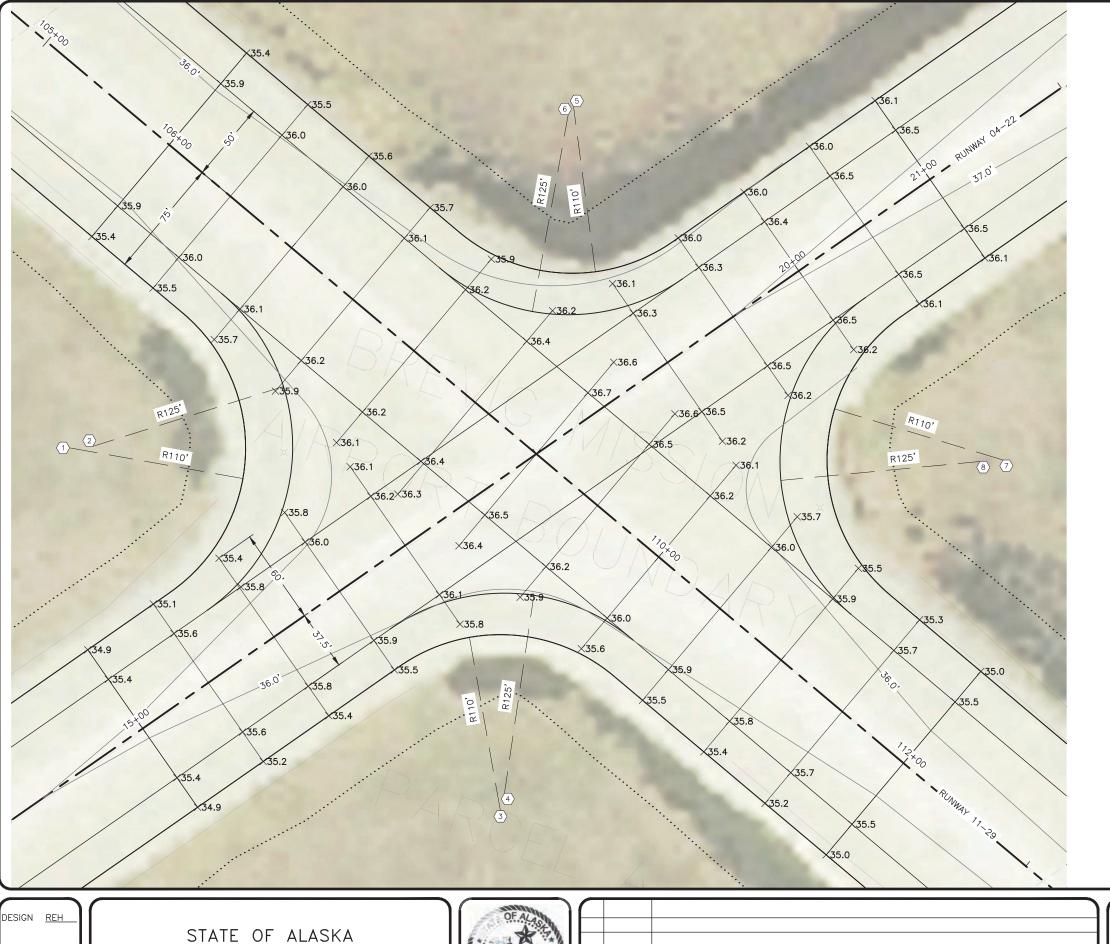














	CURVE LAYOUT					
#	RW 04-22 STA	RW 04-22 OFFSET	DESCRIPTION			
1	15+62.91	170.00' LT	RP			
(2)	15+75.27	162.50'LT	RP			
(3)	16+54.03	170.00' RT	RP			
4	16+62.37	162.50'RT	RP			
(5)	19+45.97	170.00'LT	RP			
6	19+37.63	162.50'LT	RP			
7	20+37.09	170.00'RT	RP			
(8)	20+24.73	162.50'RT	RP			

NOTES:

- 1. ALL ELEVATIONS SHOWN ARE TOP OF FINISHED GRADE IN FEET.
- 2. THE BASIS OF THE SPOT ELEVATION GRID IS STATIONING AT 50 FOOT INCREMENTS AND OFFSET ON THE EDGE OF RUNWAY AND RSA LINES.
- 3. CONTOUR LINES ARE TO SHOW INTENT OF GRADING. PROVIDE SMOOTH TRANSITIONS BETWEEN ALL FINISHED GRADE SPOT ELEVATION LOCATIONS.
- 4. SEE RUNWAY PROFILES FOR ELEVATIONS ALONG RUNWAY CENTERLINES

DESIGN <u>REH</u>

DRAWN <u>JCZ</u>

CHECKED <u>REH</u>

DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

NORTHERN REGION—DESIGN AND CONSTRUCTION—AVIATION



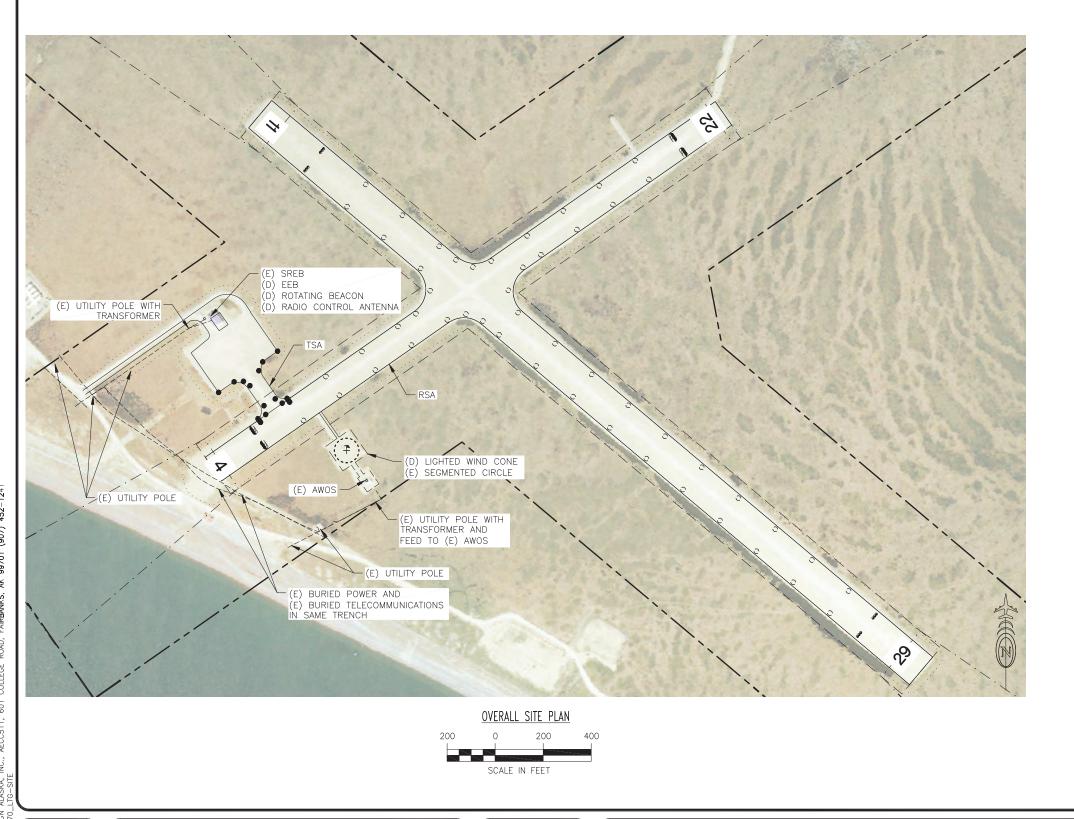
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AIRPORT LIGHTING AND RESURFACING AIP 3-02-0400-XX-XXXX/NFAPT00500

RUNWAY INTERSECTION GRADING PLAN





LEGEND AND ABBREVIATIONS

1 L-807 WIND CONE, LIGHTED

MEDIUM INTENSITY L-861 R/W EDGE LIGHT, WHITE

MEDIUM INTENSITY L-861SE THRESHOLD LIGHT, 180° GREEN, 180° RED

● MEDIUM INTENSITY L-861T T/W LIGHT, BLUE

HANDHOLE

GROUND ROD, 3/4"X10'

1-CONDUCTOR
2-CONDUCTORS

0

CONDUIT OR DUCT BELOW GRADE. HDPE, MIN 2" UON (NUMBER OF CONDUCTORS SHOWN BY HASH MARKS)

2" CONDUIT, TYPE AS NOTED ON DRAWINGS

DIA. DIAMETER

(E) EXISTING TO REMAIN

EEB ELECTRICAL EQUIPMENT BUILDING

(D) DEMOLISH

R/W RUNWAY

RSA RUNWAY SAFETY AREA

SREB SNOW REMOVAL EQUIPMENT BUILDING

TSA TAXIWAY SAFETY AREA

TYP. TYPICAL

T/W TAXIWAY

UON UNLESS OTHERWISE NOTED

GENERAL NOTES

- 1. CONTRACTOR SHALL OFFER ALL DEMOLISHED EQUIPMENT TO DOT FOR SALVAGE. ITEMS NOT SALVAGED BY DOT ARE THE RESPONSIBILITY OF THE CONTRACTOR TO DISPOSE OF. EQUIPMENT INCLUDES BUT IS NOT LIMITED TO: LIGHTS AND SUPPORT COLUMNS, CONTROLLERS, LIGHTING REGULATOR, ISOLATING TRANSFORMERS, ROTATING BEACON, AND WIND CONE.
- 2. THRESHOLD LIGHTS SHALL BE FAA TYPE L-861SE IN ACCORDANCE WITH AC 150/5340-30J TABLE 2-3.

DESIGN RSG

CHECKED RSG

DRAWN

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DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES NORTHERN REGION—DESIGN AND CONSTRUCTION—AVIATION



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ELECTRICAL SITE PLAN AND LEGEND

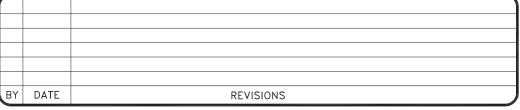


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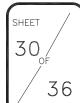
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AIP 3-02-0400-XX-202X/NFAPT00500

ELECTRICAL DEMOLITION PLANS



DATE

LIGHTING PLANS

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NORTHERN REGION-DESIGN AND CONSTRUCTION-AVIATION

LIGHT EDGE LIGHT	STATION 50+50.5	OFFSET
EDGE LIGHT	50+50.5	
		72.5LT; 72.5RT
EDGE LIGHT	50+52.5	72.5LT; 72.5RT
EDGE LIGHT	50+63.7	40.7LT; 40.7RT
EDGE LIGHT	50+95.5	27.5LT; 27.5RT
EDGE LIGHT	51+52.2	27.5LT; 27.5RT
EDGE LIGHT	52+9.3	27.5LT; 27.5RT
EDGE LIGHT	52+40.5	40.7LT; 40.7RT
EDGE LIGHT	52+53.7	150LT, 72.5LT; 72.5RT, 150RT

RUNWAY	7 04-22	LIGHT STATIONING
LIGHT	STATION	OFFSET
04 THRESHOLD	07+30.0	47.5LT, 37.5LT, 27.5LT; 47.5RT, 37.5RT, 27.5RT
EDGE LIGHT	07+77.5	47.5LT
EDGE LIGHT	09+22.5	47.5LT
EDGE LIGHT	09+23.6	47.5RT
EDGE LIGHT	11+17.2	47.5LT; 47.5RT
EDGE LIGHT	13+10.8	47.5LT; 47.5RT
EDGE LIGHT	15+4.4	47.5LT; 47.5RT
EDGE LIGHT	15+74.6	47.5LT
EDGE LIGHT	16+59.6	47.5RT
INTERSECTION EDGE LIGHT	16+61.4	86.2LT
INTERSECTION EDGE LIGHT	17+32.3	71.2RT
INTERSECTION EDGE LIGHT	18+63.0	75.0LT
INTERSECTION EDGE LIGHT	19+33.5	92.5RT
EDGE LIGHT	19+37.6	47.5LT
EDGE LIGHT	20+24.7	47.5RT
EDGE LIGHT	20+85.2	47.5LT; 47.5RT
EDGE LIGHT	22+78.8	47.5LT; 47.5RT
EDGE LIGHT	24+72.4	47.5LT; 47.5RT
EDGE LIGHT	26+66.0	47.5LT; 47.5RT
22 THRESHOLD	28+60.0	47.5LT, 37.5LT, 27.5LT; 47.5RT, 37.5RT, 27.5RT

RUNWA	Y 11-29 LI	GHT STATIONING
LIGHT	STATION	OFFSET
11 THRESHOLD	100+50	60LT, 50LT, 40LT; 60RT, 50RT, 40RT
EDGE LIGHT	102+38.8	60LT; 60RT
EDGE LIGHT	104+27.6	60LT; 60RT
EDGE LIGHT	106+16.4	60LT; 60RT
EDGE LIGHT	106+85.4	60RT
EDGE LIGHT	107+78.7	60LT
EDGE LIGHT	110+24.0	60RT
EDGE LIGHT	111+15.1	60LT
EDGE LIGHT	111+82.8	60LT; 60RT
EDGE LIGHT	113+71.6	60LT; 60RT
EDGE LIGHT	115+60.4	60LT; 60RT
EDGE LIGHT	117+49.2	60LT; 60RT
EDGE LIGHT	119+38.0	60LT; 60RT
EDGE LIGHT	121+26.8	60LT; 60RT
EDGE LIGHT	123+15.6	60LT; 60RT
EDGE LIGHT	125+4.4	60LT; 60RT
EDGE LIGHT	126+93.2	60LT; 60RT
EDGE LIGHT	128+82.0	60LT; 60RT
29 THRESHOLD	130+70.0	60LT, 50LT, 40LT; 60RT, 50RT, 40RT

DESIGN RSG

DRAWN JCC

HECKED <u>RSG</u>

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
NORTHERN REGION—DESIGN AND CONSTRUCTION—AVIATION

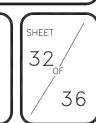


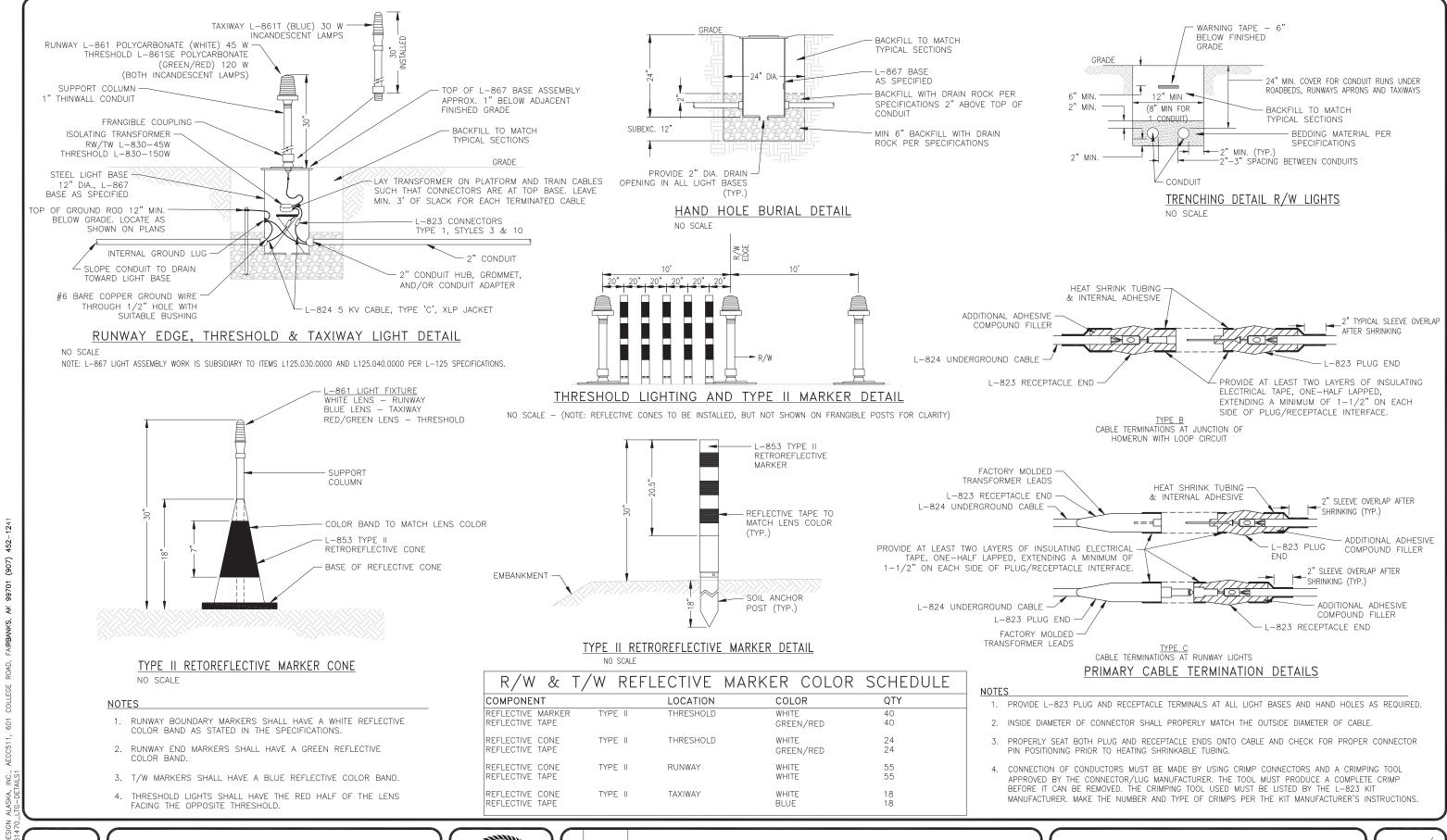
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BREVIG MISSION AIRPORT

AIRPORT LIGHTING AND RESURFACING AIP 3-02-0400-XX-202X/NFAPT00500

STATIONING





PLANS DEVELOPED BY: DESIGN P:\502101\E\Drawings\61470 DESIGN AMPAN AMPAN

STATE OF ALASKA

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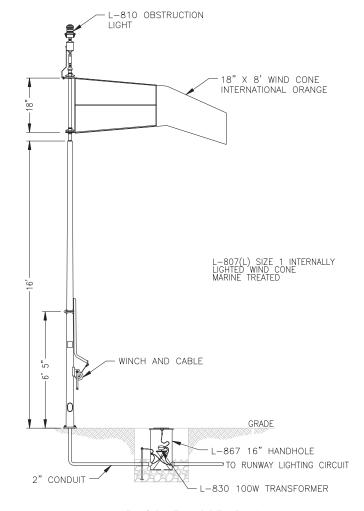
LIGHTING DETAILS 1 OF 2

SHEET 33_{OF} 36

BEACON DETAIL

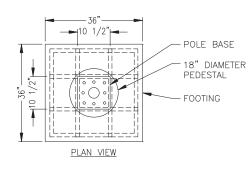
NO SCALE

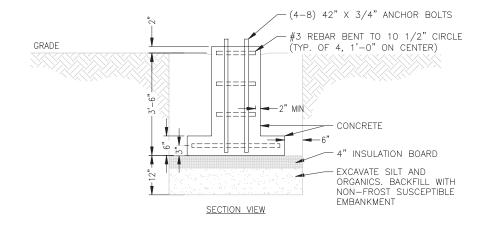
NOTE: PROVIDE SEPARATE CIRCUITS FOR BEACON AND STRIP HEATER IN BEACON



WIND CONE ASSEMBLY NO SCALE

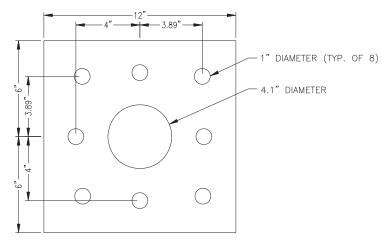
NOTE: INSTALL WINDCONE WITHIN CENTER OF (E) SEGMENTED CIRCLE, DIRECTLY ADJACENT TO WINDCONE TO BE DEMOLISHED.





WIND CONE FOUNDATION DETAIL

NO SCALE



PROVIDE MINIMUM 4 ANCHOR BOLTS

WIND CONE BASE PLATE DETAIL

NO SCALE

DESIGN RSG

DRAWN JCC

HECKED <u>RSG</u>

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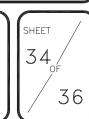


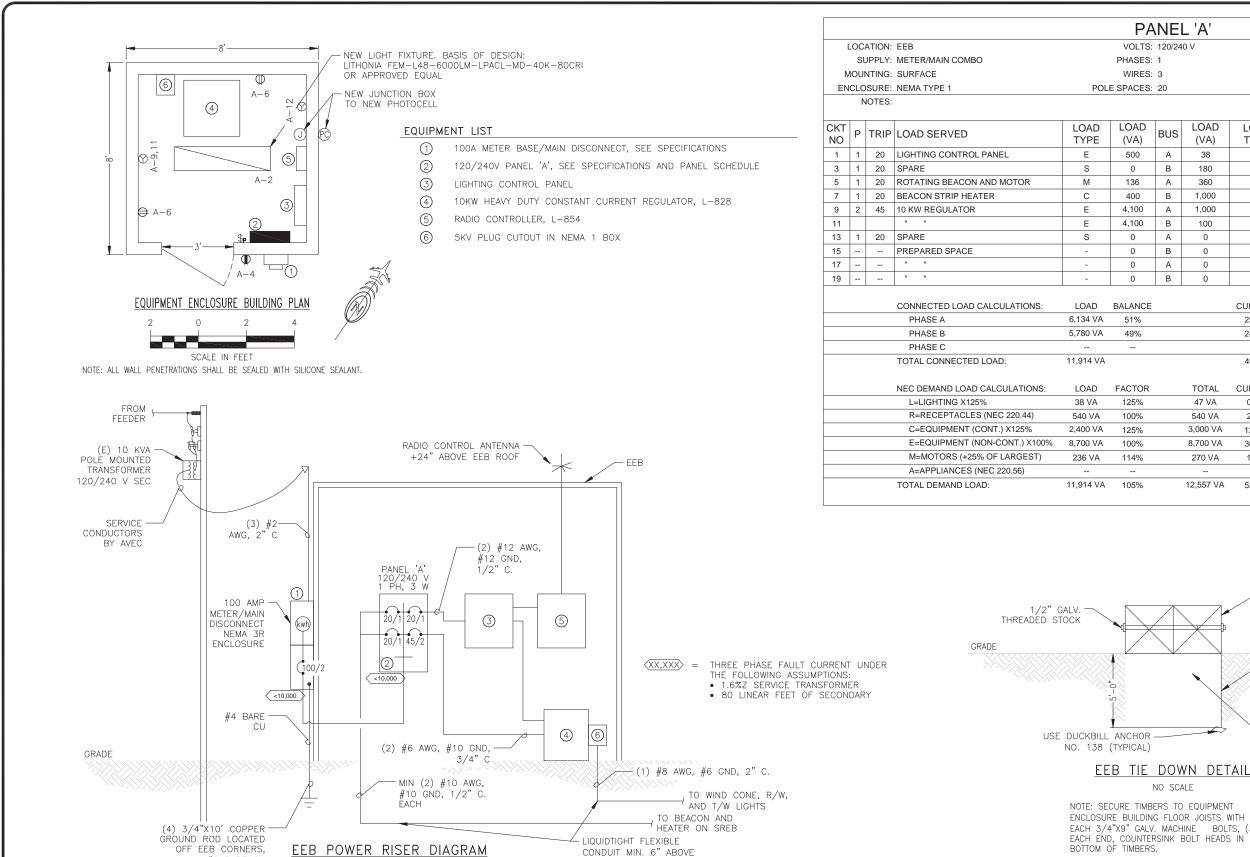
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AIRPORT LIGHTING AND RESURFACING AIP 3-02-0400-XX-202X/NFAPT00500

LIGHTING DETAILS 2 OF 2





GRADE TO BEYOND BEND

BELOW GRADE. 36" MIN.

LENGTH

NOTE: SECURE TIMBERS TO EQUIPMENT ENCLOSURE BUILDING FLOOR JOISTS WITH (6) EACH 3/4"X9" GALV. MACHINE BOLTS, (3) AT EACH END, COUNTERSINK BOLT HEADS IN BOTTOM OF TIMBERS.

STATE OF ALASKA

ESIGN RSG

HECKED <u>RSG</u>

RAWN

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NO SCALE

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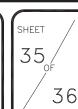


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BREVIG MISSION AIRPORT

AIRPORT LIGHTING AND RESURFACING AIP 3-02-0400-XX-202X/NFAPT00500

ELECTRICAL EQUIPMENT BUILDING



A.I.C. RATING: 10,000 A

TRIP P CKT

20 1 4

20 1 6

20 1 8

20 | 1 | 10

15 1 12

-- |-- 14

-- -- 16

-- -- 18

20 1

NO

MAINS TYPE: MLO

MAINS RATING: 100 A

PANELBOARD FEEDER C/B RATING: 100 A

LOAD

TYPE

LOAD SERVED

REC - EXTERIOR

REC - INTERIOR

EEB HEATER (2 KW)

EXHAUST FAN (100 W)

PREPARED SPACE

CURRENT LOAD PERCENTAGE

CURRENT LOAD PERCENTAGE

0%

13%

2 EA. AWWF TIMBER 6"X6"

5/16" CABLE HELD IN

12" BORROW EMBANKMENT

COMPACTED TO THE

FNGINFFR

SATISFACTION OF THE

PLACE BY TENSION

25.6 A 26%

24.1 A 24%

49.6 A 50%

0.2 A

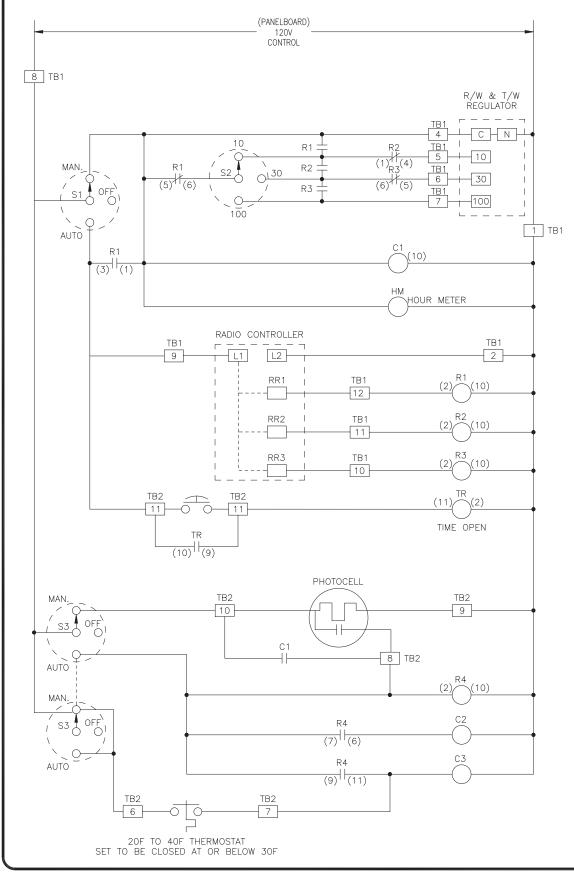
2.3 A

12.5 A

36.3 A

52.3 A 52%

ENCLOSURE LIGHTING



CONTROL EQUIPMENT

RELAYS RR1, RR2, & RR3 ARE INTERNAL IN THE RADIO CONTROLLER.

RELAYS R1, R2, R3, & R4 SHALL BE ENCLOSED, PLUG-IN TYPE WITH 10A, 120V, 60HZ CONTACTS, 120V 60HZ OPERATING COIL, SUITABLE FOR OPERATION AT -60 DEG F.

TERMINAL BLOCKS TB1, TB2, & TB3 SHALL HAVE TERMINALS RATED 30A, 120V, 60HZ.

CONTACTORS C1, C2, & C3 SHALL BE ENCLOSED, WITH 30A, 120V, 60HZ CONTACTS, 120V 60 HZ OPERATING COILS, AND BE SUITABLE FOR OPERATION AT -60 DEG F.

NOTES

THIS CONTROL DIAGRAM ASSUMES THAT THE RADIO CONTROLLER RELAYS ARE PROGRAMMED TO BE OPERATED "SEQUENTIALLY", SUCH THAT WITHIN A 5 SECOND

- RR1 IS ACTIVATED IF 3 PULSES ARE RECEIVED - RR2 IS ACTIVATED IF 5 PULSES ARE RECEIVED
- RR3 IS ACTIVATED IF 7 PULSES ARE RECEIVED

RELAYS SHALL BE GENERAL PURPOSE CONTROL RELAYS, UNLESS OTHERWISE NOTED.

TERMINAL NUMBERS AND RELAY CONNECTION NUMBERS ARE FOR REFERENCE ONLY -AS-BUILT DRAWINGS ARE TO SHOW NUMBERS USED.

LIGHTING CONTROL SEQUENCE

1. MANUAL - AT CONTROL PANEL

1.A. SWITCH S1 - SET TO MANUAL 1.A.1. RUNWAY LIGHTS - ON TAXIWAY LIGHTS - ON WIND CONE LIGHTS - ON

- 1.B. SWITCH S2 SELECT RUNWAY LIGHT INTENSITY, 10-30-100% IN MANUAL & TIME RELAY POSITION
- 2. AUTOMATIC SWITCH S1 SET TO AUTO

2.A. RADIO CONTROLLER 2.A.1. RELAY RR1 ACTIVATED

2.A.2.

2.A.1.1. RUNWAY LIGHTS - ON 10% INTENSITY

TAXIWAY LIGHTS - ON 10% INTENSITY WIND CONE LIGHTS - ON 100% INTENSITY

RELAY RR1 & RR2 ACTIVATED RUNWAY LIGHTS — ON 30% INTENSITY TAXIWAY LIGHTS — ON 30% INTENSITY 2.A.2.1.

2.A.2.2.

WIND CONE LIGHTS - ON 100% INTENSITY

2.A.3. RELAY RR1, RR2, & RR3 ACTIVATED

2.A.3.1. RUNWAY LIGHTS - ON 100% INTENSITY TAXIWAY LIGHTS - ON 100% INTENSITY 2.A.3.2.

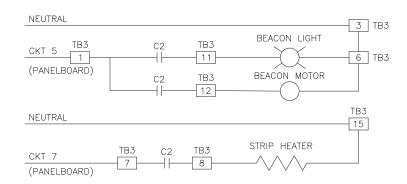
WIND CONE LIGHTS - ON 100% INTENSITY 2.A.3.3

2.A.4. RELAY RR1, RR2, & RR3 DEACTIVATED BY INTERNAL TIMER

2.A.4.1. RUNWAY LIGHTS - OFF 2.A.4.2. TAXIWAY LIGHTS - OFF

WIND CONE LIGHTS - OFF 2.A.4.3.

- 3. CLOSING SWITCH S4 WILL NOT OVERRIDE AUTOMATIC OPERATION BY THE RADIO CONTROLLER NOR MANUAL OPERATION AT THE CONTROL PANEL.
- 4. SWITCH S3 ALLOWS MANUAL OR AUTOMATIC OPERATION OFF THE ROTATING BEACON. AUTOMATIC OPERATION CONTROLLED BY PHOTOCELL OR R/W AND T/W LIGHTING SYSTEMS. THE THERMOSTAT OPERATES THE STRIP HEATER IN MANUAL & AUTOMATIC POSITIONS



STATE OF ALASKA

(907)

ESIGN RSG

HECKED <u>RSG</u>

RAWN

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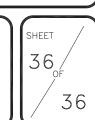


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BREVIG MISSION AIRPORT

AIRPORT LIGHTING AND RESURFACING AIP 3-02-0400-XX-202X/NFAPT00500

LIGHTING CONTROLS DIAGRAM



S-00.12

SHEET | of |

GENERAL NOTES

- I. See the standard specifications for the aluminum alloys that you may use for sign sheeting and wind framing members.
- 2. Fabricate all signs from 0.125" thick aluminum
- 3. Sign fabricators may use alternates to the zee shaped framing member with approval of the engineer, if the frame manufacturer certifies their design equals or exceeds the strength of the zee shaped design.
- 4. Install one piece wind framing members on all signs up to 23.5' wide. Use one splice in each wind frame on all signs wider than 23.5'. Locate splices at least 18" from all posts and panel edges. Stagger splices in adjacent framing members at
- engineer approved, double sided, high strength, adhesive tape. Clean and handle sheeting and framing members and apply tape in accordance with the tape manufacturer's written instructions. Install two rivets in both ends of each framing member.
- 6. Use 3/16" diameter rivets conforming to aluminum alloy 6061-T6 for cold driven rivets, or aluminum alloy 6061-T43 for hot driven rivets.
- 7. Sign fabricators may use sign panels extruded with integral framing with approval of the engineer, if the manufacturer certifies their design equals or exceeds the strength of the 0.125" thick panel with framing attached to it.
 - framing members located (H-0.15)/4 spaces. If needed, make a horizontal splice at the middle wind frame.

∕Ç of rivets

Zee Shaped Wind

Framing Member

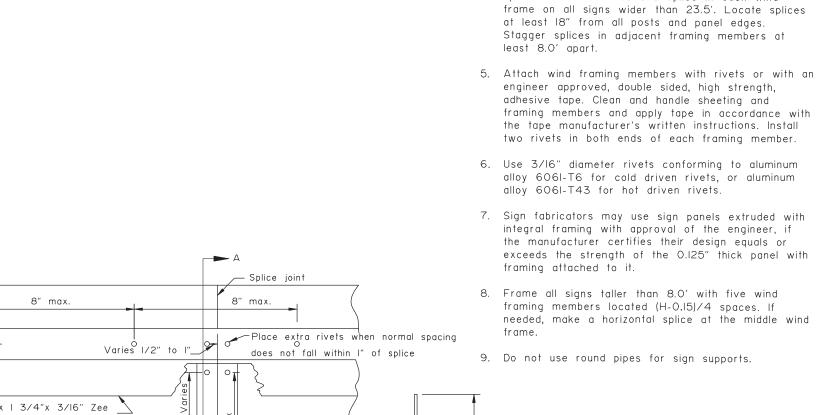
3/4" x | 3/4" x

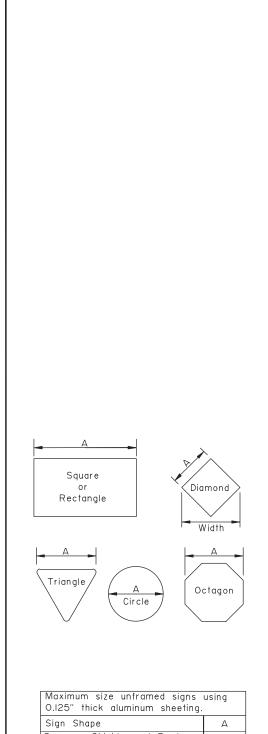
3/16"

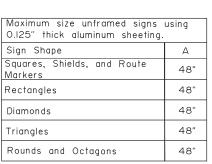
Splice plate

2"x3/l6"

SECTION A-A

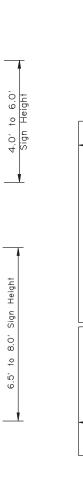






Install wind framing on all signs that exceed the dimensions listed.

LIGHT SIGNS



Note: Drawing not to scale

Ç of rivets -

-φ of rivets

Ç of rivets —

No splices

¢ of rivets →

4.5' to 39.5' Sign Width(W)

Ç of rivets⊿

-Ç of rivets

—⊊ of rivets

Vertical splices only

4.5' to 39.5' Sign Width(W)

C of rivets →

—Ç of rivets

¢ of rivets —

4.5' to 39.5' Sign Width(W)

-C of rivets

WIND FRAMING

LOCATIONS

Vertical splices as required, and

Zif needed, a horizontal splice at H/2

Vertical splices only

−Ç of rivets

height

sign

height

sign

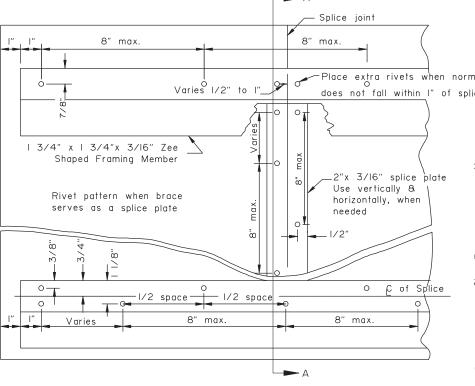
工

[5]

(H-0.

3″_

2



RIVET DETAIL FOR ZEE SHAPED WIND FRAMING & SPLICE PLATE

State of Alaska DOT&PF ALASKA STANDARD PLAN SIGN FRAMING

Adopted as an Alaska Carolyn Morshouse Standard Plan by: Carolyn Morehouse, P.E. Chief Engineer

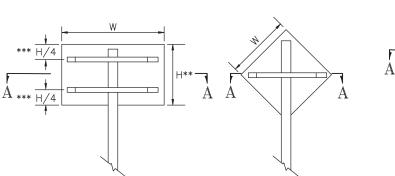
Adoption Date: 7/17/2020

Last Code and Stds. Review By: WTH Date: 7/8/2020

Next Code and Standards Review date: 7/8/2030

S-01.02

SHEET | of |



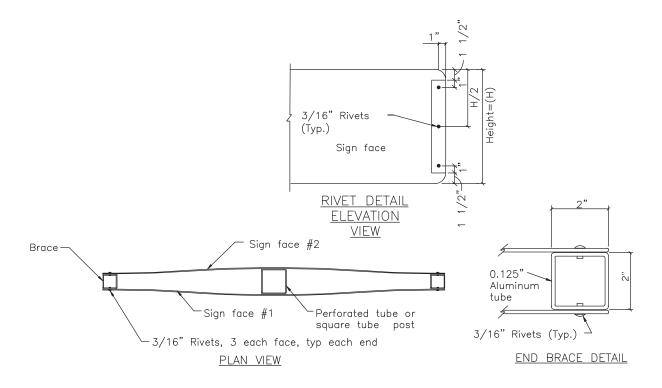
A YIELD

*** Use one brace when H \leq 18" Use two braces when 18"< H < 48" Use three braces when H \geq 48"

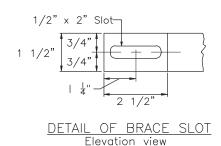
WARNING

** Position of brace may be varied to match Predrilled mounting holes in panel

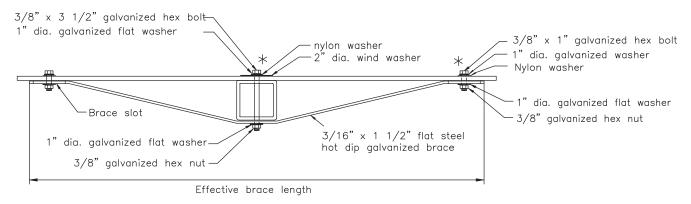
SIGN BRACING PLACEMENT



SMALL STREET NAME SIGN (D3-1, D3-1A, D3-1D) BRACING DETAILS



OTHER



TUBE POST SIGN BRACING SECTION A-A

	Sign	Effective	Length		
W	/idth(W)	Warning	Yield	Other	
	30"	36"	24"	24"	
	36" 42" 42" 48"		30"	30"	
			-	36"	
	48"	Two posts	36"	42"	

< 30" No bracing required and use square tube

* Adjust location of bracing so that bolts and washers will miss the sign legend

State of Alaska DOT&PF ALASKA STANDARD PLAN

BRACING FOR SIGNS MOUNTED ON SINGLE POST

Adopted as an Alaska Standard Plan by:

Carolyn Morehouse

Carolyn Morehouse, P.E.

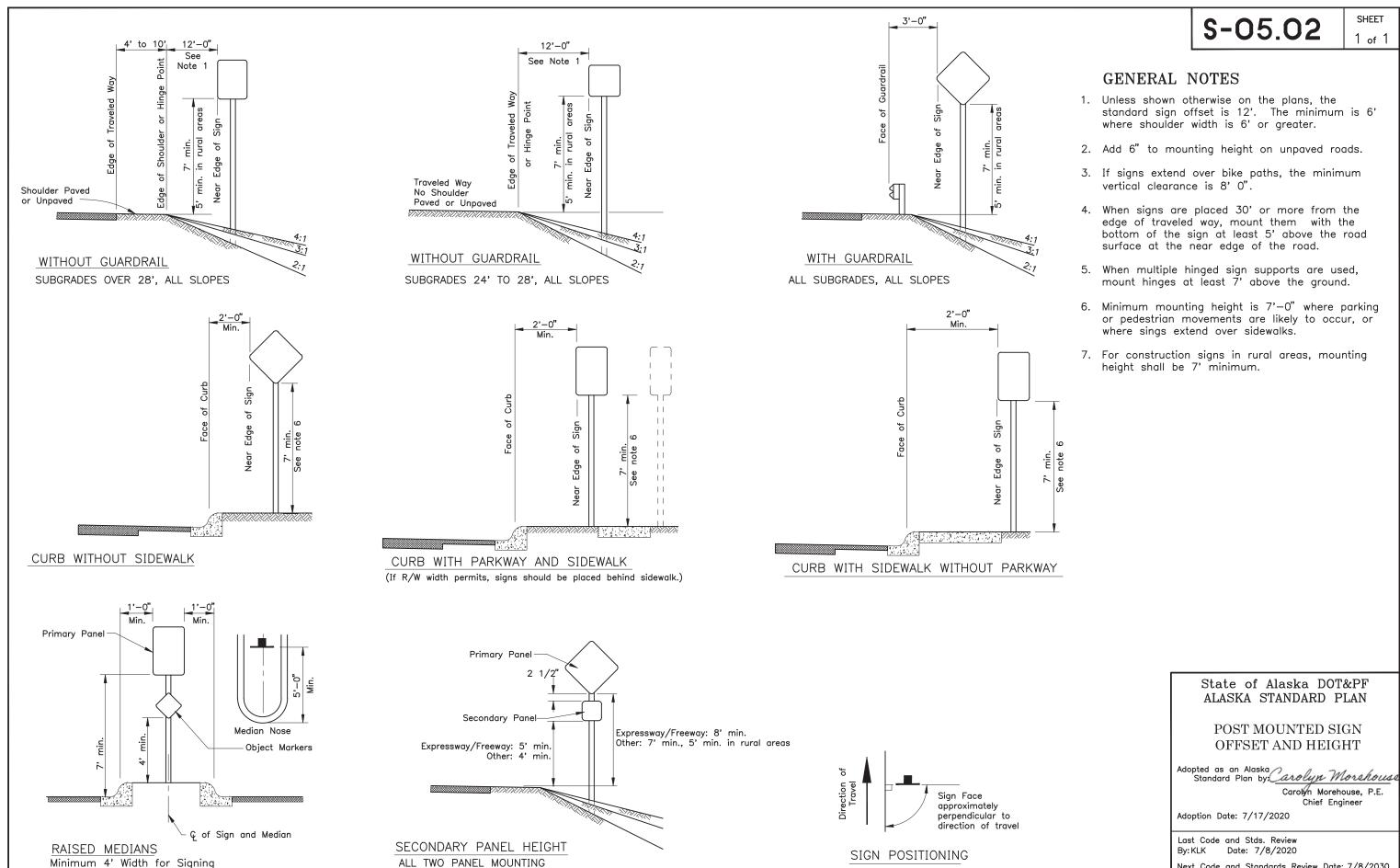
Chief Engineer

Adoption Date: 7/17/2020

Last Code and Stds. Review By: WTH Date: 7/8/2020

Next Code and Standards Review date: 7/8/2030

Note: Drawing not to scale



02 05.

Next Code and Standards Review Date: 7/8/2030

S-30.05

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GENERAL NOTES:

- Sign shall be placed symmetrically around posts and refer to Standard Plan S-00 for sign framing details.
- 2. See plans for type of post, size and embedment type.
- To maintain crashworthiness, install no more than the number of P.S.T.s or wood posts specified in the tables within 7' of each other.
- 4. Concrete shall be class B.
- Do not use the supports on this drawing for multiple support signs if supports are separated by more than 7 feet.
- 6. Treat all field cuts and field drilled holes in wood posts in accordance with Section 730-2.04 of the Standard Specifications.

SIGN POST SPACING NOTES:

- Install sign support in accordance with the table below, unless otherwise required by plans or specifications.
- Exceptions:
 - a. Use one post for all E5-I gore signs, regardless of width.b. Use one 2.5" P.S.T. for all STOP signs, with or without street name signs.
- 3. Supports placed within 7' of each other must be acceptable for that use. See tables below for the sizes of wood posts and P.S.T.s that may be used within 7'. See Manufacturer's documentation for breakaway couplings and tubes that may be used within 7'.
- 4. See Standard Plan S-31 for frangible couplings, hinges, and foundations for tube and W-shape sign supports.

I/2 confor	crown or m to slope \ \ \ \ \ \ and	Dia. Bolt, Nut Flat Washers
4	max.	
	4" max.	4" max.
C		
	48" Steel tube	P.S.T. Stub O O Stub Embedment
— Drilled hole in widest face, t Top of foundation	Cover end to prevent	6", typ.
or ground line.	12"	

WOOD SIGN POSTS						
SIZE	HOLE DIA.	EMBEDMENT*	NO. OF POSTS WITHIN 7 Ft. PATH			
4"x4"	NONE	4'-1"	2			
4"x6"	1 1/2"	5'-3"	2			
6"x6"	1 1/2"	4'-9"	I			
6"x8"	3"	4'-9"	ı			

 $oldsymbol{st}$ Embedment depth applies in both strong and weak soil.

WOOD POSTS

Embedment

Direction of Traffic

PERFORATED STEEL TUBES (P.S.T.)							
POST SIZE	Embedment Depth	No. of P.S.T.s per- mitted within 7 ft path					
/2" x /2"	4'-8"	2					
I 3/4" x I 3/4"	4'-6"	2					
2" x 2"	4'-3"	2					
2 1/4" x 2 1/4"	5'-0"	I					
2 1/2" x 2 1/2"	4'-6"	I					

SLEEVE TYPE

CONCRETE FOUNDATION

Use 3"x3"x3/16" Stub for 2 1/2"x2 1/2" PST Applications.

TUBE SIGN POST SPACING								
Sign Width (feet)	No. of	Distance	Sign	Post Type			Notes	
	Posts	Between Posts	Overhang	P.S.T.	Wood	Steel Tube	W-Shape	
0.5 to 4.0	I	-	0.5W	X	X	×		See Note 2.
4.5 to 10.0	2	0.6W	0.2W	X	X	X		See Note 3.
10.5 to 11.0	2	6	Varies	X	X	X		See Note 3.
II.5 to I3.0	2	8	Varies				X	
13.5 to 20.0	2	0.6W	0.2W				Х	
20.5 to 22.5	3	8	Varies				Х	
23.0 to 29.5	3	0.35W	0.15W				X	
30.0 to 31.5	4	8	Varies				X	
32.0 to 40.0	4	0.25W	0.125W				X	

TUBE SIGN POST SPACING

PERFORATED STEEL TUBE (PST) POSTS

Note: Drawing not to scale

SLEEVE TYPE*

SOIL EMBEDMENT

State of Alaska DOT&PF ALASKA STANDARD PLAN

LIGHT SIGN STRUCTURE POST EMBEDMENT

Adopted as an Alaska Standard Plan by:

Carolyn Morshouse

Carolyn Morshouse P.E.

Carolyn Morehouse, P.E.
Chief Engineer

Adoption Date: 7/17/2020

Last Code and Stds. Review By: WTH Date: 7/8/2020

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