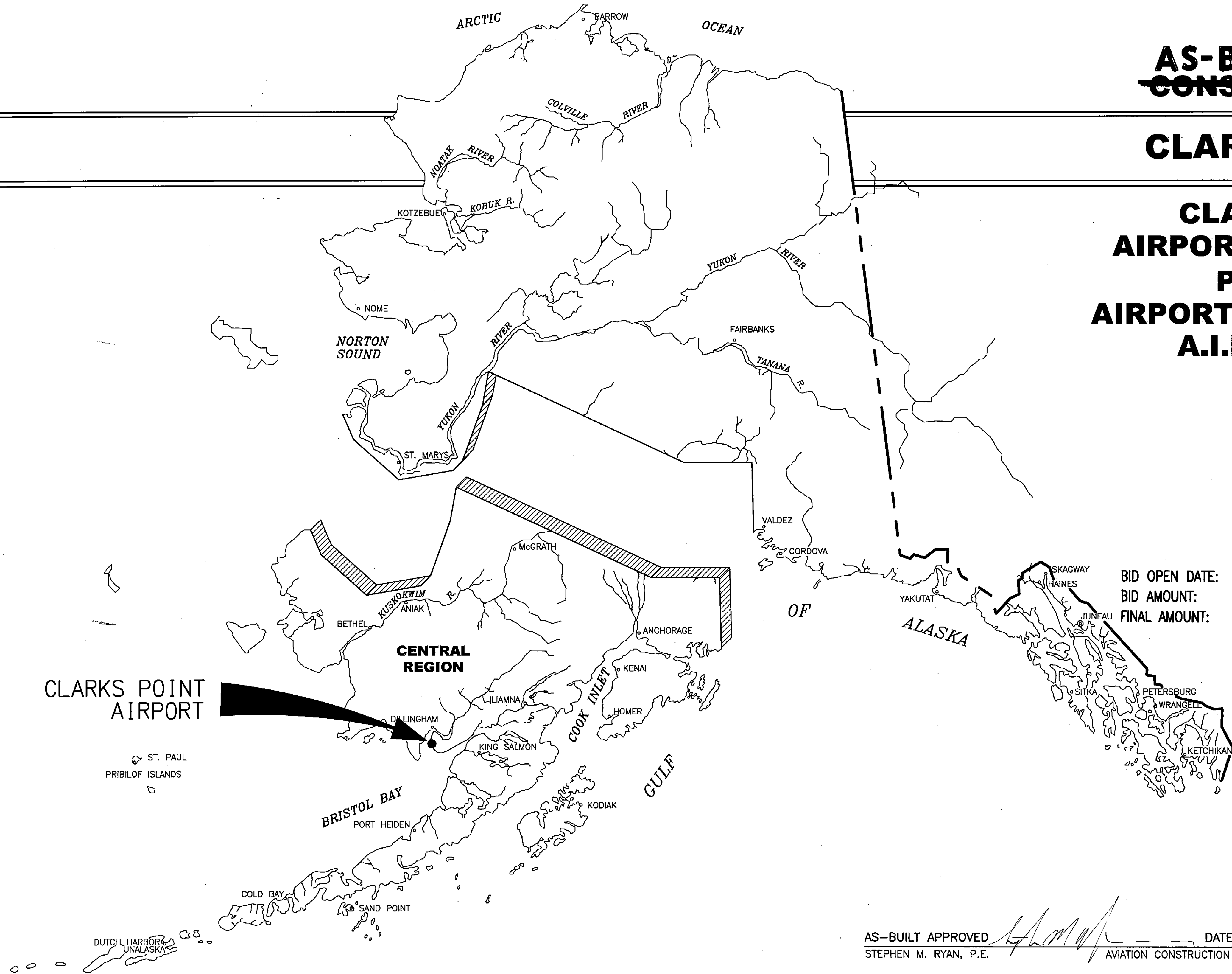


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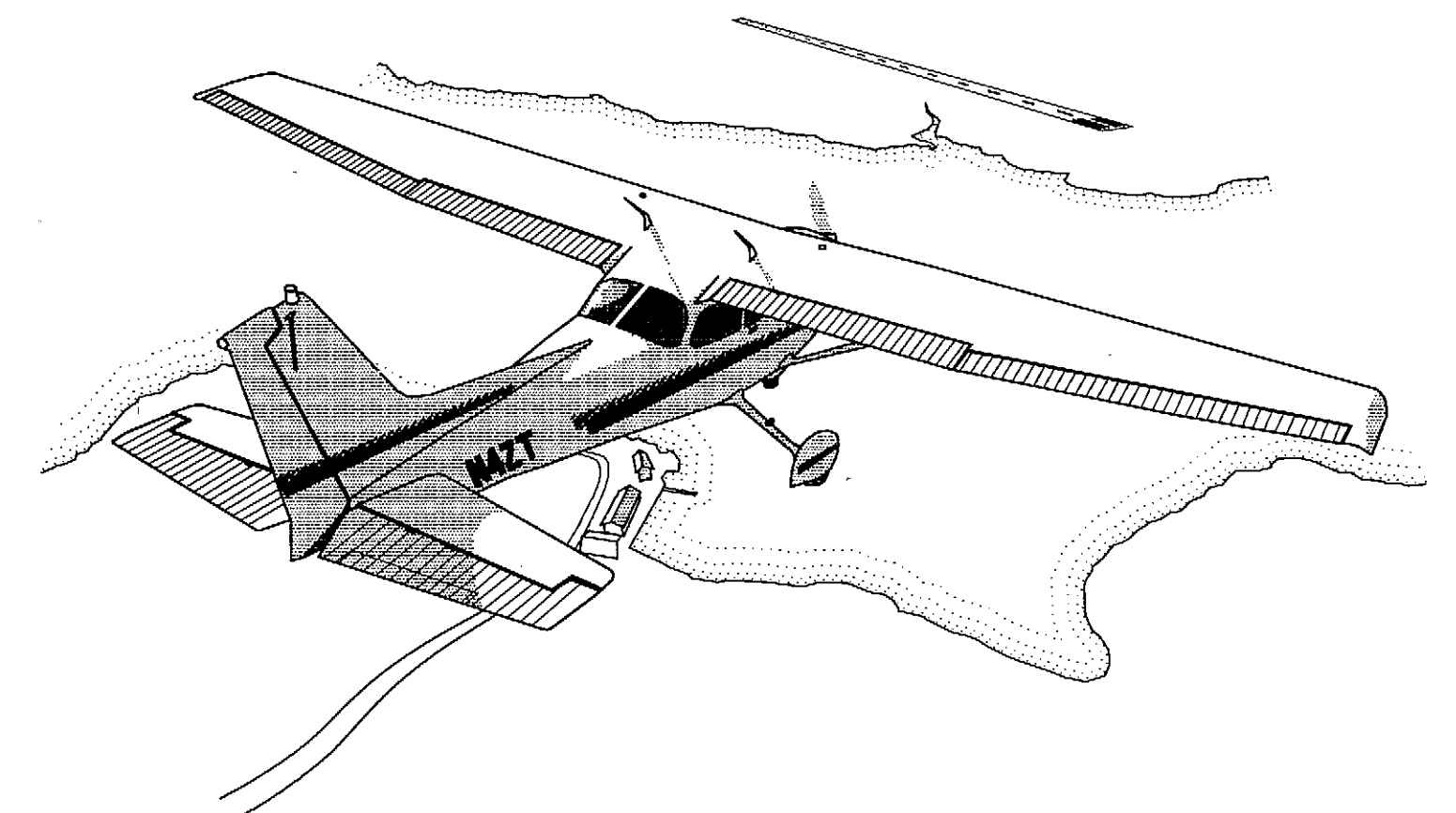
AS-BUILT ~~CONSTRUCTION~~ PLANS FOR CLARKS POINT AIRPORT

CLARKS POINT, ALASKA AIRPORT RELOCATION, STAGE II PROJECT No. 55598 AIRPORT IMPROVEMENT PROGRAM A.I.P. No. 3-02-0062-0304 2004

AS ADVERTISED
CENTRAL REGION
DATE JUNE 2004

BID OPEN DATE: July 21, 2004
BID AMOUNT: \$3,617,190.00
FINAL AMOUNT: \$3,598,116.49

PROJECT ENGINEER: SCOTT RHEE
AWARDED CONTRACTOR: BERING PACIFIC CONSTRUCTION
ADDRESS: 7801 SCHOON ST. SUITE B
ANCHORAGE, AK. 99518



AS-BUILT APPROVED *[Signature]* DATE 3/7/08
STEPHEN M. RYAN, P.E. AVIATION CONSTRUCTION GROUP CHIEF

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

CONCUR <i>[Signature]</i> STEVEN R. HORN, P.E.	DATE 6/23/04 DIRECTOR OF CONSTRUCTION AND OPERATIONS
APPROVED <i>[Signature]</i> ROBERT A. CAMPBELL, P.E.	DATE 6/23/04 REGIONAL PRECONSTRUCTION ENGINEER
APPROVED <i>[Signature]</i> STEPHEN M. RYAN, P.E.	DATE 6/22/04 DESIGN SECTION CHIEF
APPROVED <i>[Signature]</i> HARVEY M. DOUTHIT, P.E.	DATE 6/22/04 PROJECT MANAGER

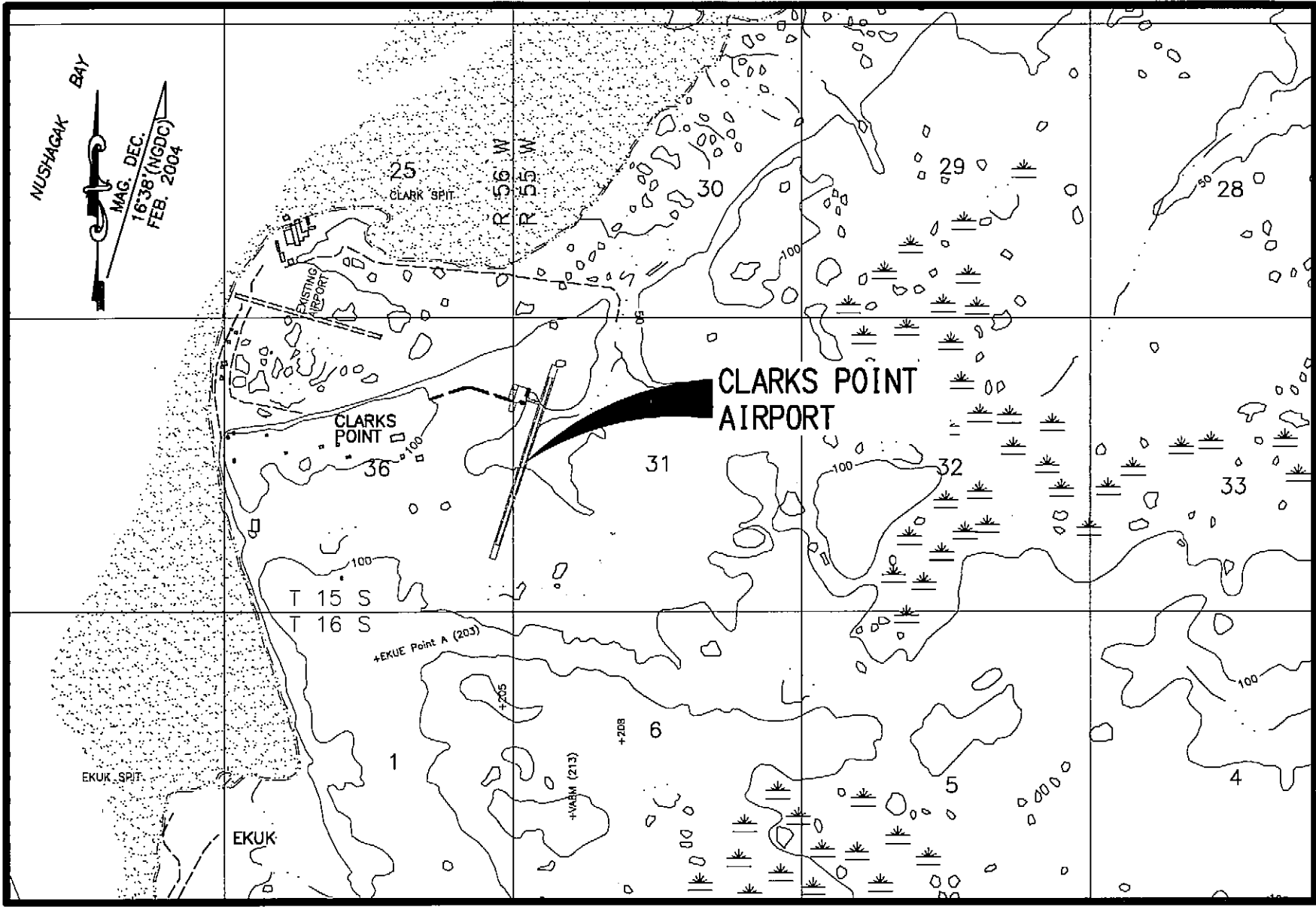
**CLARKS POINT AIRPORT
AIRPORT RELOCATION, STAGE II
PROJECT No. 55598**

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VICINITY MAP

SCALE 2"= 1 MILE
T 15 S, R55 W, SEC. 31
T 15 S, R56 W, SEC. 36
SEWARD MERIDIAN
U.S.G.S. NUSHAGAK BAY (D-2), ALASKA

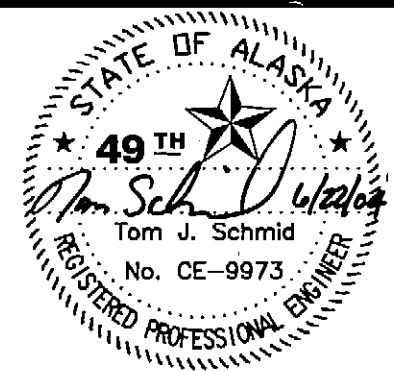
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BY	DATE	REVISIONS



STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
CENTRAL REGION

CLARKS POINT AIRPORT
CLARKS POINT, ALASKA
AIRPORT RELOCATION STAGE II
55598
AIP No. 3-02-0062-0304
VICINITY MAP & INDEX

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ESTIMATED QUANTITIES				ESTIMATED QUANTITIES				ADDITIVE ALTERNATES			
No.	ITEM	FINAL	QUANTITY UNIT	No.	ITEM	QUANTITY UNIT					
D-701a	Corrugated Steel Pipe, 24 inch		155 L.F	P-152f	Embankment	11174 14495 13185	C.Y.	Additive Alternate #1: PAPI and REILs for Runway End 36			
D-701f	Repair Existing Corrugated Steel Pipe, 48 inch		50 L.F	P-152h	Borrow Embankment	8881 9026 5375	C.Y.	Pay Item Number	Pay Item Description	Quantity Pay Unit	
G-100a	Mobilization and Demobilization		All Req'd L.S.	P-157a	Erosion and Pollution Control Administration		L.S. All Req'd	L-100p.1	Handhole, L-867, size B	3 Each	
G-130a	Field Office		All Req'd L.S.	P-157b	Temporary Erosion and Pollution Control		C.S. All Req'd	L-110g.1	2-inch PE Conduit	6289.2 6285 L.F.	
G-131a	Engineering Transportation (Truck)		1 EA	P-208a	Crushed Aggregate Surface Course	12234.3 11900	C.Y.	P-152h.1	Borrow Embankment	2359 2350 C.Y.	
G-135a	Construction Surveying by the Contractor		All Req'd L.S.	P-640b	Segmented Circle (Panel Type)		All Req'd L.S.	P-685a.1	Geogrid	745 S.Y.	
G-135b	Conditional Survey Party		50 0 HR	P-650a	Soil Anchor Tiedown		5 SET	Additive Alternate #2: PAPI and REILs for Runway End 18			
G-135c	Monuments by the Contractor		All Req'd L.S.	P-660b	Reflective Markers, Type II		62 EA	Pay Item Number	Pay Item Description	Quantity Pay Unit	
G-150a	Equipment Rental (Wide Pad Dozer, 65 HP Minimum)		50 15 HR	P-660c	Reflective Markers, Type III		20 EA	L-100p.2	Handhole, L-867, size B	2 Each	
G-705a	Water for Dust Control		100 18 M-GAL	P-661a	Standard Sign		47 S.F.	L-110g.2	2-inch PE Conduit	904.1 905 L.F.	
L-100b	Regulator, L-828		1 EA	P-671a	Runway Closure Marker		3 Each	P-152h.2	Borrow Embankment	3074 3400 C.Y.	
L-100d	Medium Intensity Runway Edge and Threshold Light, L-861 and L-861E		46 EA	P-680a	Silt Fence		3365 L.F.	P-685a.2	Geogrid	1040 S.Y.	
L-100e	Taxiway Edge Light, L-861T		16 EA	P-685a	Geogrid	8211 40300	S.Y.	MATERIALS SUMMARY			
L-100p	Handhole, L-867, size B		1 Each	S-142c	Equipment Storage Building (Steel Floor on Skids)	2	Each				
L-100q	Junction Box, Type II		6 Each	S-142d	Rotating Beacon Roof Access System	1	Each				
L-101b	Rotating Beacon, Medium Intensity, L-801A		1 Each	S-142f	Heating System	1	Each				
L-107b	12-foot Lighted Wind Cone, in place		1 EA	S-143a	Heating Fuel Tank (1000 gals)	1	Each				
L-107d	12-foot UnLighted Wind Cone, in place		1 EA	S-143b	Fuel		All Req'd L.S.				
L-108a	Underground Cable #8 AWG, copper, 5 kV FAA type "B" or type "C", L-824		8885 8340 L.F	S-143d	Electric Dispensing System	1	Each				
L-108c	#6 Bare Copper Ground Conductor		8885 7928 L.F.	S-143e	Motor Vehicle Fuel-dispensing Tank (1000 gals)	1	Each				
L-108g	Ground Rod		12 Each	S-143f	Spill Prevention Control and Countermeasure Plan		L.S. All Req'd				
L-109c	Electrical Enclosure and Foundation in Place		1 Each	T-901b	Seeding	110 100	LB.				
L-109e	Installation of Electrical Equipment in New or Existing Structure		All Req'd L.S.	T-901c	Water for Maintenance	0 100	M-GAL				
L-110g	2-inch PE Conduit		8885 7559.6 L.F.	T-908b	Rolled Matting	2771 895	S.Y.				
P-151a	Clearing		9.9 10.01 Acre	T-908d	Mulching	3500 5000	LB.				
P-152a	Unclassified Excavation		13745 13506 C.Y. 13185								

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LEGEND

- BLM Monument
- Primary Centerline Monument
- Secondary Centerline Monument
- GPS Control Point
- Deciduous Tree
- Contour Highlighted
- Contour Normal
- Culvert
- Edge of Vegetation
- Trees & Brush to be Removed
- Terrain to be Removed
- Archeological Site
- Existing Fill Limits
- Silt fence
- New Fill Limits
- New Cut Limits

SCOPE OF PROJECT

1. REGRADE EMBANKMENT. INCLUDING R/W, T/W, SAFETY AREAS, APRON, AND ACCESS ROAD. REGRADE SLOPES AS DIRECTED BY THE ENGINEER.
2. CONSTRUCT EMBANKMENT STA.60+00 TO STA.63+35.
3. SURFACE RUNWAY, STA.28+95 TO STA.60+95.
4. SURFACE TAXIWAY, AND APRON.
5. SURFACE ROAD, STA.10+00 TO 25+67.81.
6. CONSTRUCT SEGMENTED CIRCLE PAD AND INSTALL SEGMENTED CIRCLE WITH LIGHTED WIND CONE.
7. INSTALL UNLIGHTED WIND CONE.
8. REPAIR EXISTING 48" CMP, REGRADE SLOPE.
9. CONSTRUCT TWO SINGLE BAY SNOW REMOVAL EQUIPMENT BUILDINGS (SREB).
10. HAND CLEARING OF BRUSH.
11. INSTALL MEDIUM INTENSITY LIGHTING SYSTEM.
12. REMOVE TERRAIN OBSTRUCTIONS.
13. CONSTRUCT PAPI/REIL PADS ADDITIVE ALTERNATE #1 AND #2.
14. INSTALL MONUMENTS.
15. EXTEND ELECTRICAL SERVICE (BY OTHERS)
16. REPLACE EXISTING 18" CMP WITH NEW 24" CMP

NOTES:

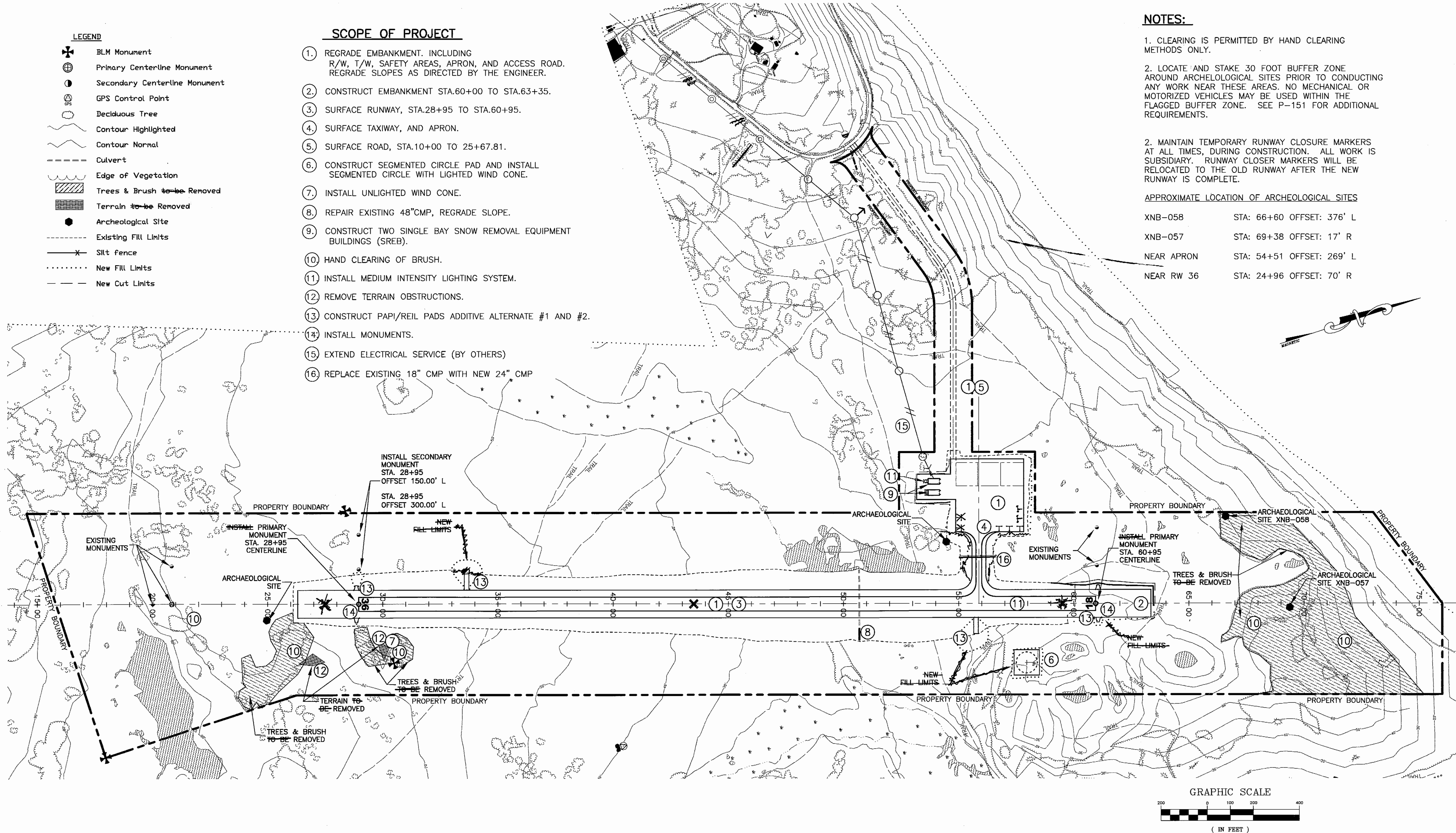
1. CLEARING IS PERMITTED BY HAND CLEARING METHODS ONLY.

2. LOCATE AND STAKE 30 FOOT BUFFER ZONE AROUND ARCHEOLOGICAL SITES PRIOR TO CONDUCTING ANY WORK NEAR THESE AREAS. NO MECHANICAL OR MOTORIZED VEHICLES MAY BE USED WITHIN THE FLAGGED BUFFER ZONE. SEE P-151 FOR ADDITIONAL REQUIREMENTS.

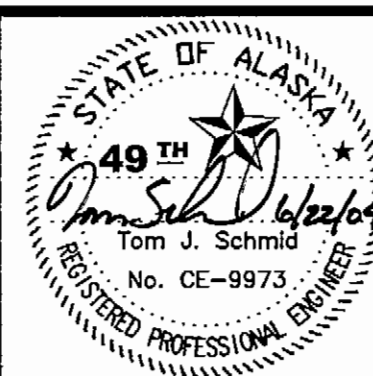
2. MAINTAIN TEMPORARY RUNWAY CLOSURE MARKERS AT ALL TIMES, DURING CONSTRUCTION. ALL WORK IS SUBSIDIARY. RUNWAY CLOSER MARKERS WILL BE RELOCATED TO THE OLD RUNWAY AFTER THE NEW RUNWAY IS COMPLETE.

APPROXIMATE LOCATION OF ARCHEOLOGICAL SITES

XNB-058	STA: 66+60 OFFSET: 376' L
XNB-057	STA: 69+38 OFFSET: 17' R
NEAR APRON	STA: 54+51 OFFSET: 269' L
NEAR RW 36	STA: 24+96 OFFSET: 70' R



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BY	DATE	REVISIONS

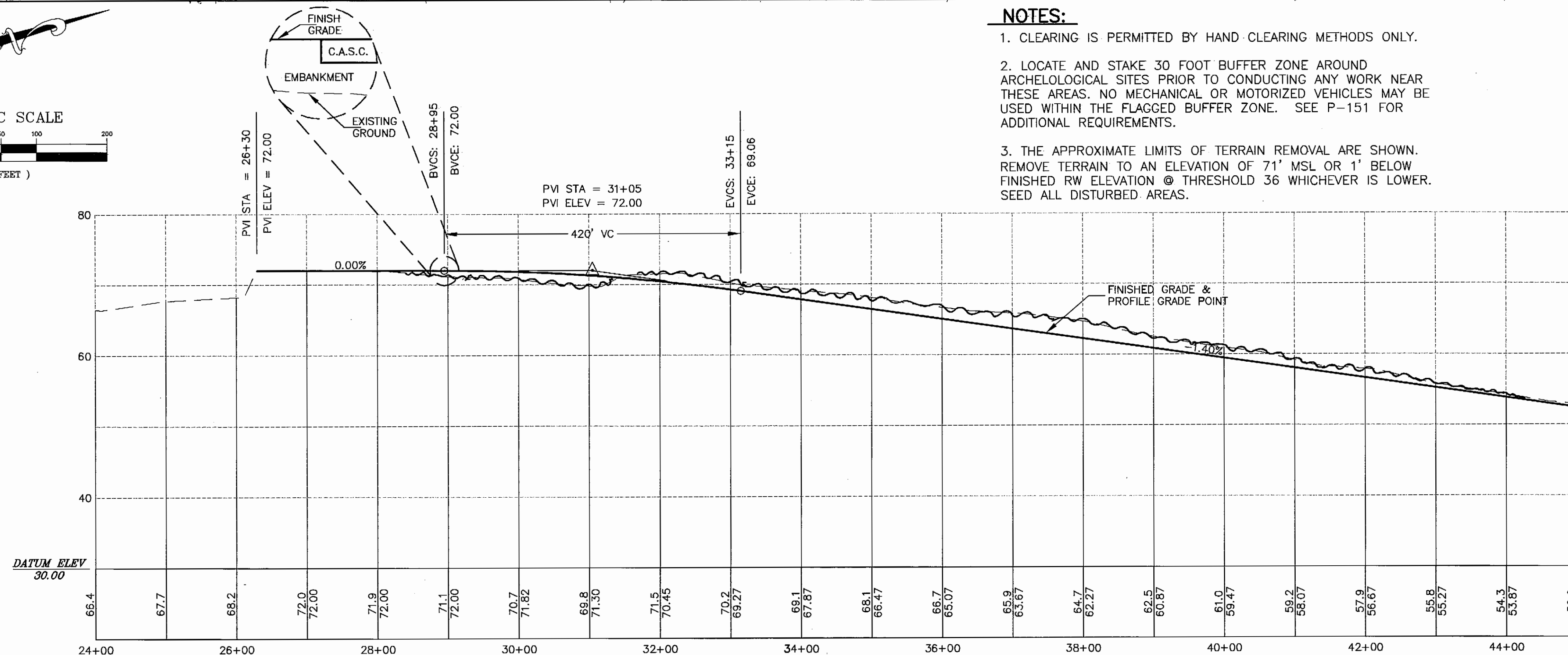
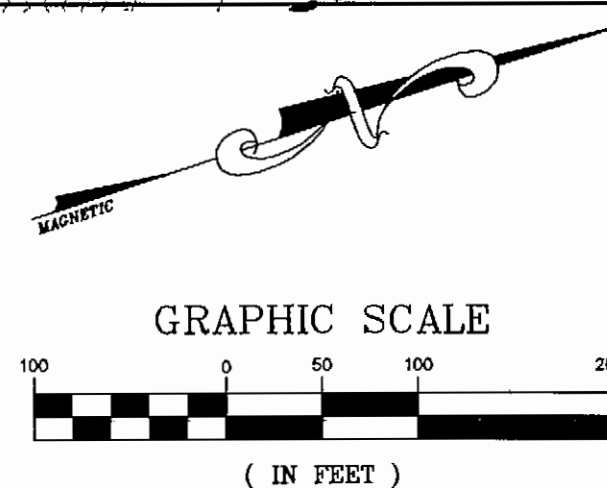
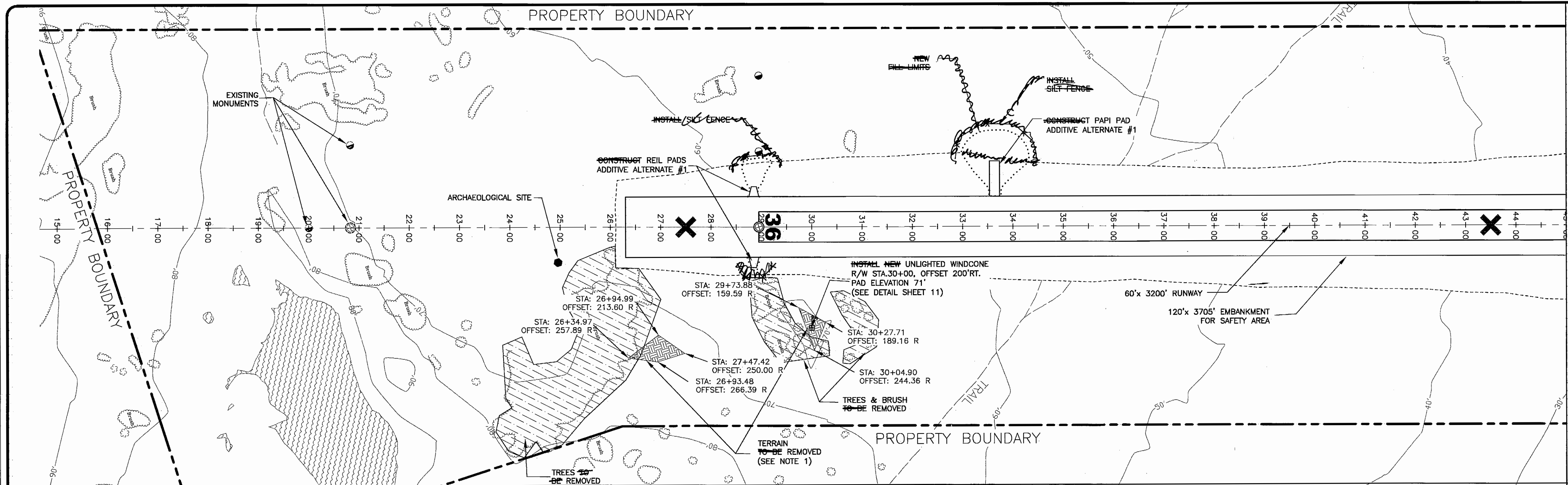


STATE OF ALASKA
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AND PUBLIC FACILITIES
CENTRAL REGION

CLARKS POINT AIRPORT
CLARKS POINT, ALASKA
AIRPORT RELOCATION STAGE II
55598
AIP No. 3-02-0062-0304
PROJECT LAYOUT PLAN

















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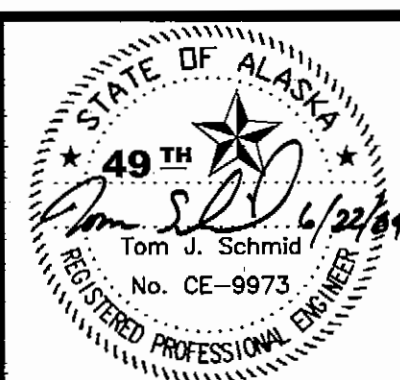


- ## NOTES:
1. CLEARING IS PERMITTED BY HAND CLEARING METHODS ONLY.
 2. LOCATE AND STAKE 30 FOOT BUFFER ZONE AROUND ARCHEOLOGICAL SITES PRIOR TO CONDUCTING ANY WORK NEAR THESE AREAS. NO MECHANICAL OR MOTORIZED VEHICLES MAY BE USED WITHIN THE FLAGGED BUFFER ZONE. SEE P-151 FOR ADDITIONAL REQUIREMENTS.
 3. THE APPROXIMATE LIMITS OF TERRAIN REMOVAL ARE SHOWN. REMOVE TERRAIN TO AN ELEVATION OF 71' MSL OR 1' BELOW FINISHED RW ELEVATION @ THRESHOLD 36 WHICHEVER IS LOWER. SEED ALL DISTURBED AREAS.

LEGEND

	BLM Monument
	Primary Centerline Monument
	Secondary Centerline Monument
	GPS Control Point
	Deciduous Tree
	Contour Highlighted
	Contour Normal
	Culvert
	Edge of Vegetation
	Trees & Brush to be Removed
	Terrain to be Removed
	Archaeological Site
	Existing FILL Limits
	Silt fence
	New FILL Limits
	New Cut Limits

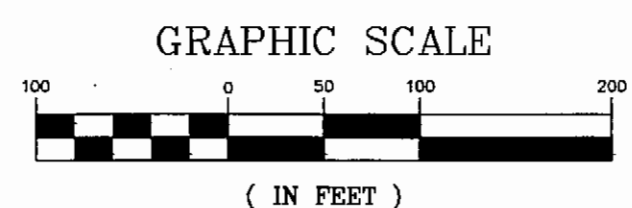
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












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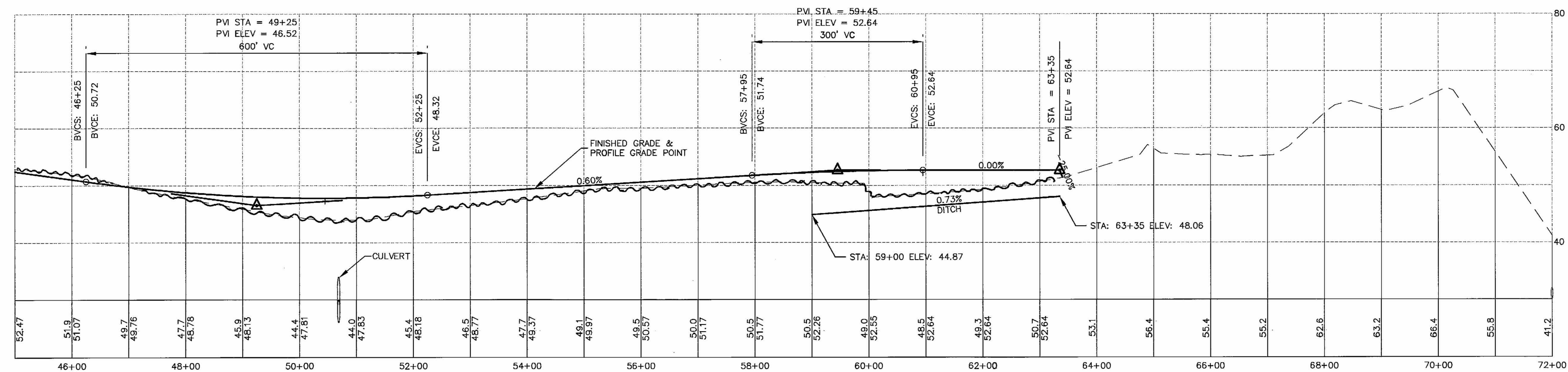
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CLARKS POINT, ALASKA
AIRPORT RELOCATION STAGE II
55598
AIP No. 3-02-0062-0304
RUNWAY PLAN & PROFILE
STA. 26+30 TO STA. 45+00

MATCH STA 45+00

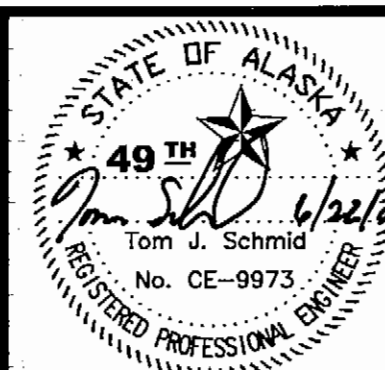


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|  | Contour Highlighted |
|  | Contour Normal |
|  | Culvert |
|  | Edge of Vegetation |
|  | Trees & Brush to be Removed |
|  | Terrain to be Removed |
|  | Archeological Site |
|  | Existing Fill Limits |
|  | Silt fence |
|  | New Fill Limits |
|  | New Cut Limits |



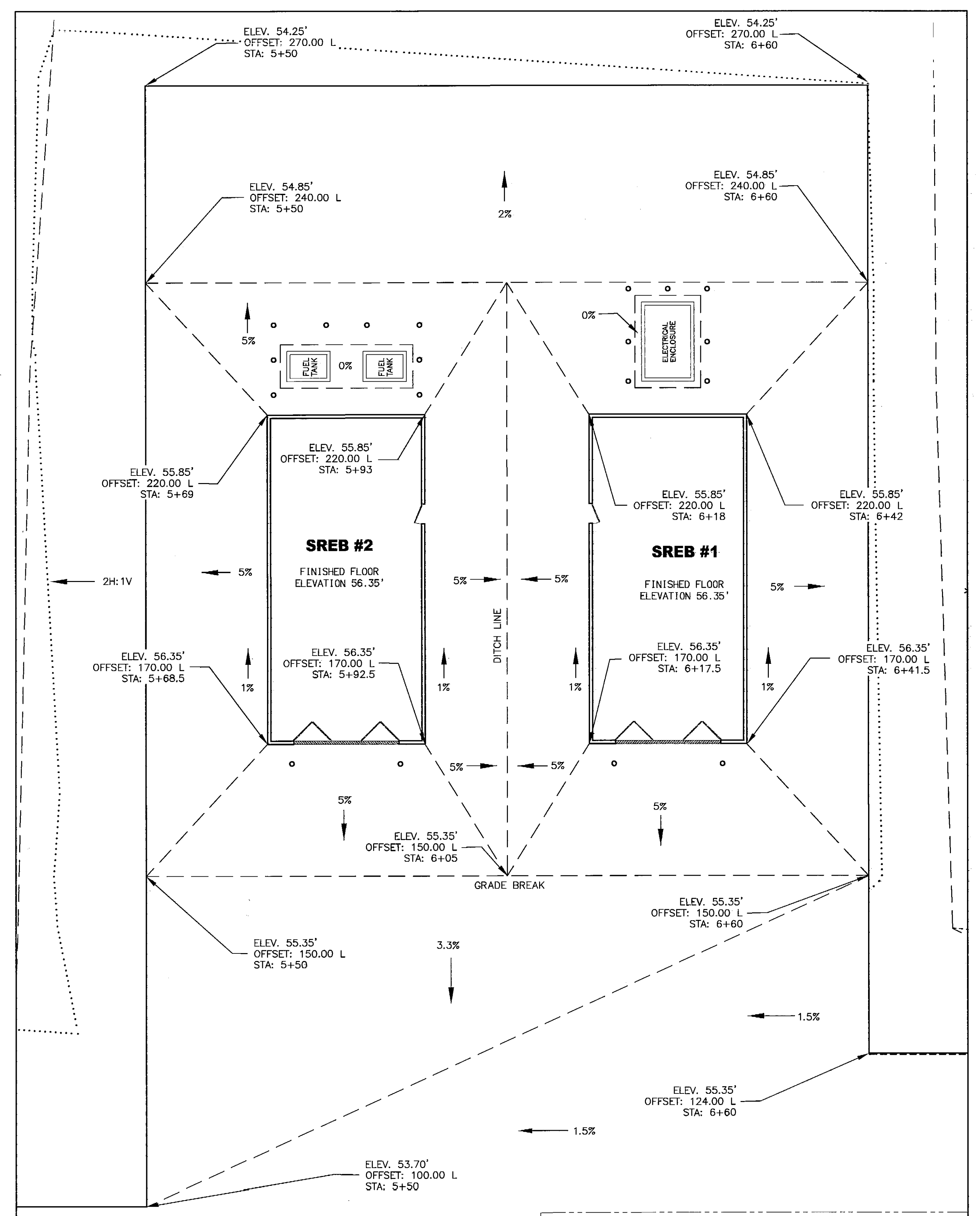
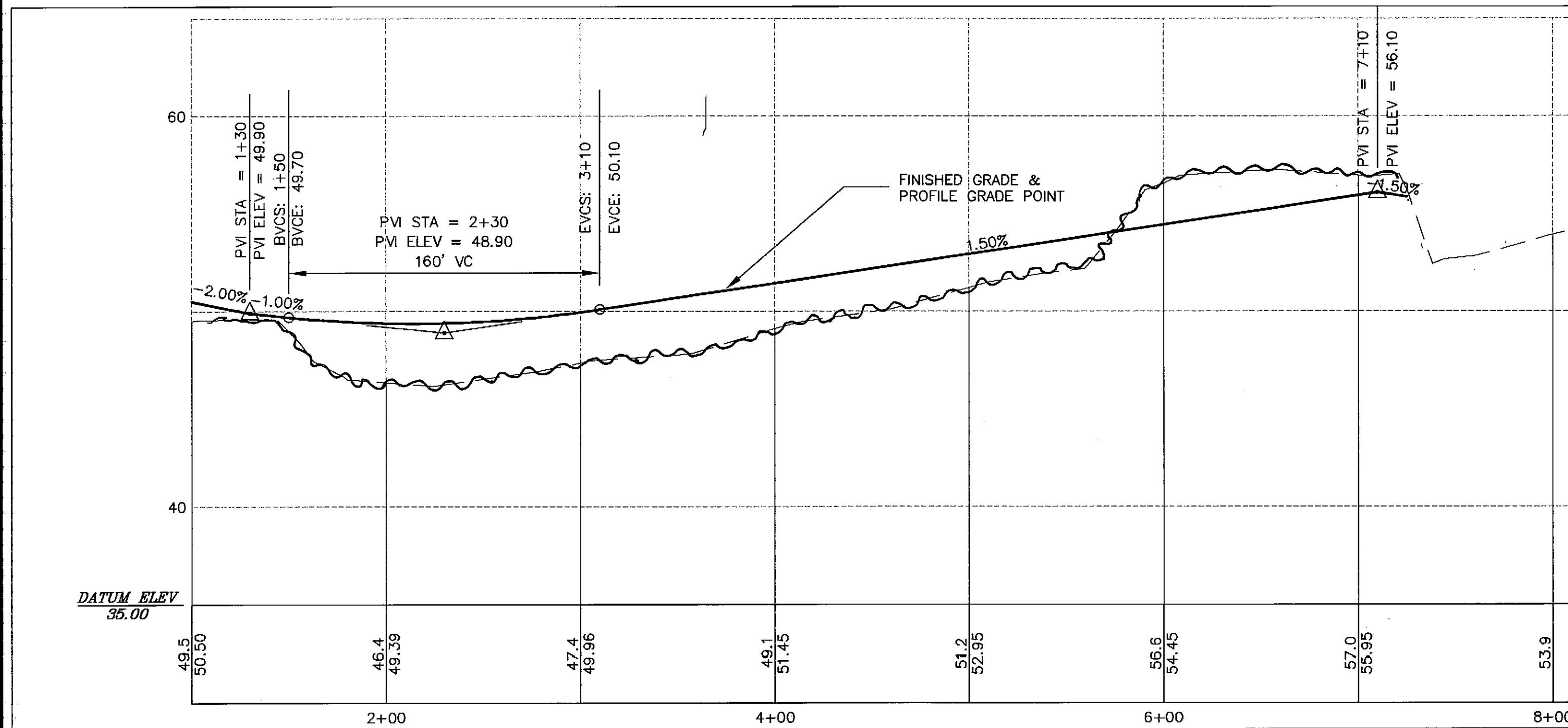
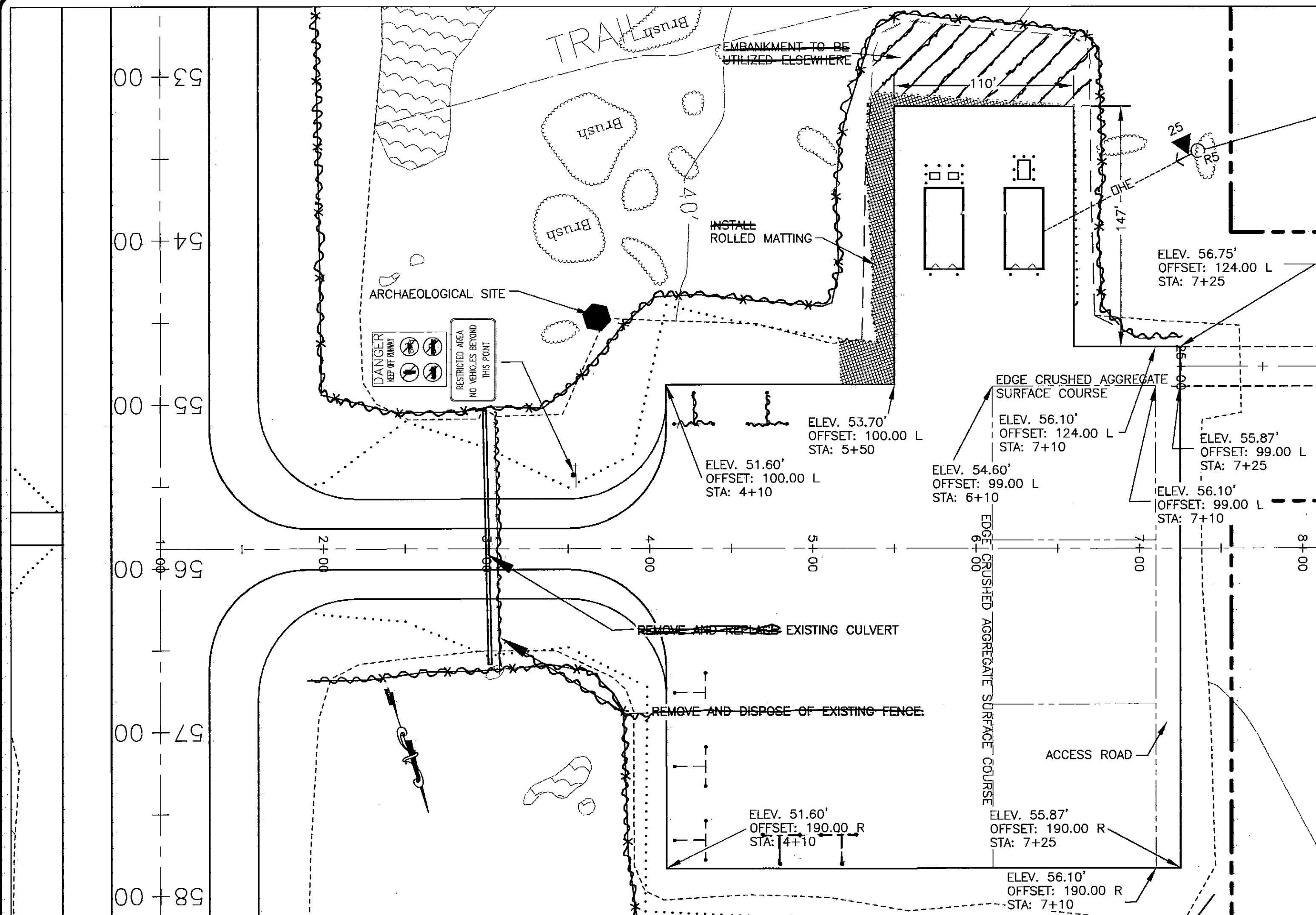
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BY	DATE	REVISIONS



CLARKS POINT AIRPORT
CLARKS POINT, ALASKA
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55598
AIP No. 3-02-0062-0304
RUNWAY PLAN & PROFILE
STA. 45+00 TO STA. 63+35

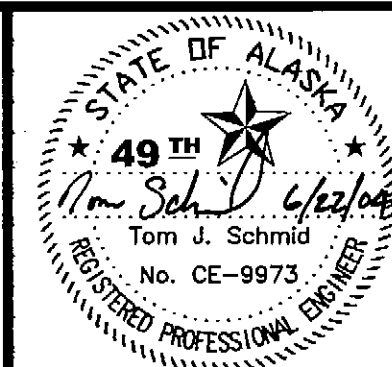
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MAINTENANCE & OPERATIONS LOT LAYOUT PLAN

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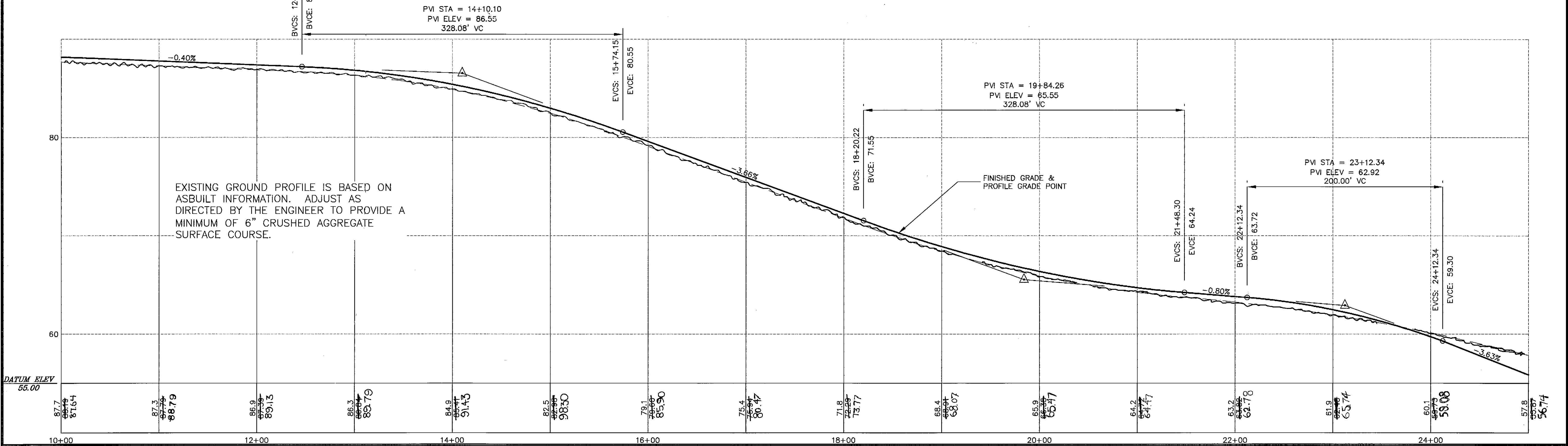
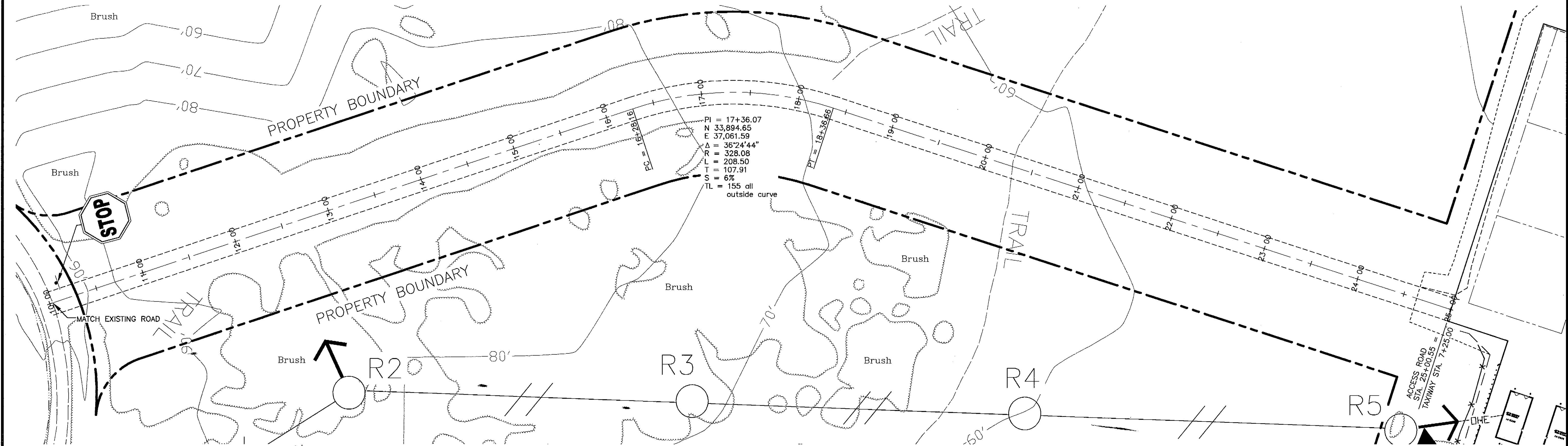


STATE OF ALASKA
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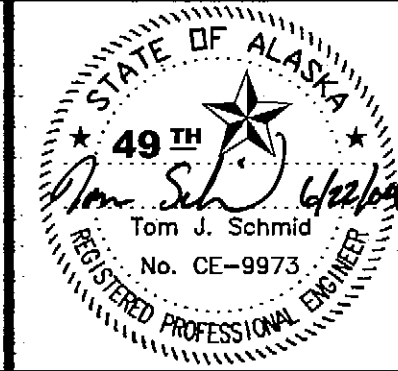
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CLARKS POINT, ALASKA
AIRPORT RELOCATION STAGE II
55598
AIP No. 3-02-0062-0304
TAXIWAY PLAN & PROFILE
APRON LAYOUT PLAN

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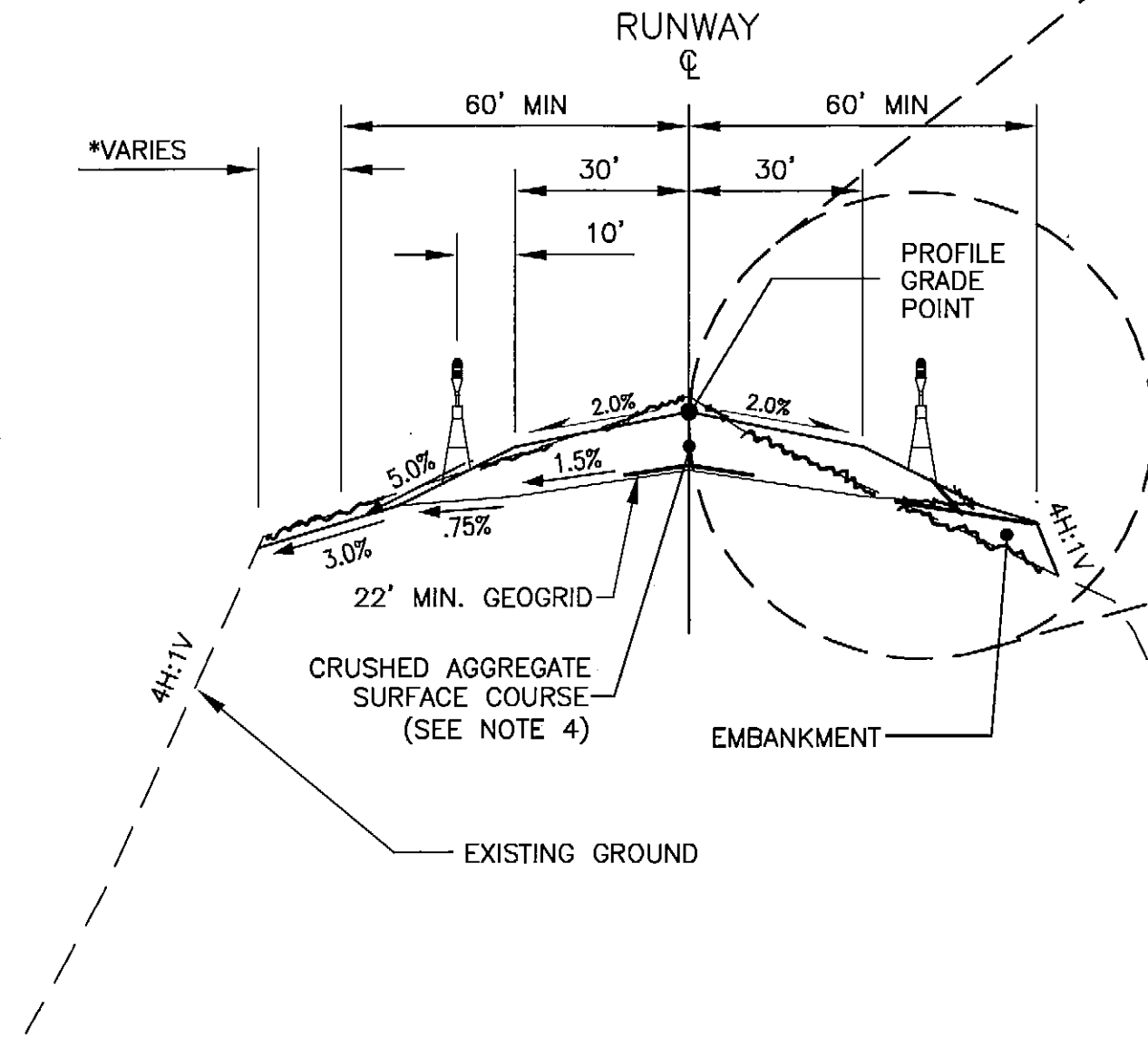
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AND PUBLIC FACILITIES
CENTRAL REGION

CLARKS POINT AIRPORT
CLARKS POINT, ALASKA
AIRPORT RELOCATION STAGE II
55598
AIP No. 3-02-0062-0304
ACCESS ROAD PLAN & PROFILE

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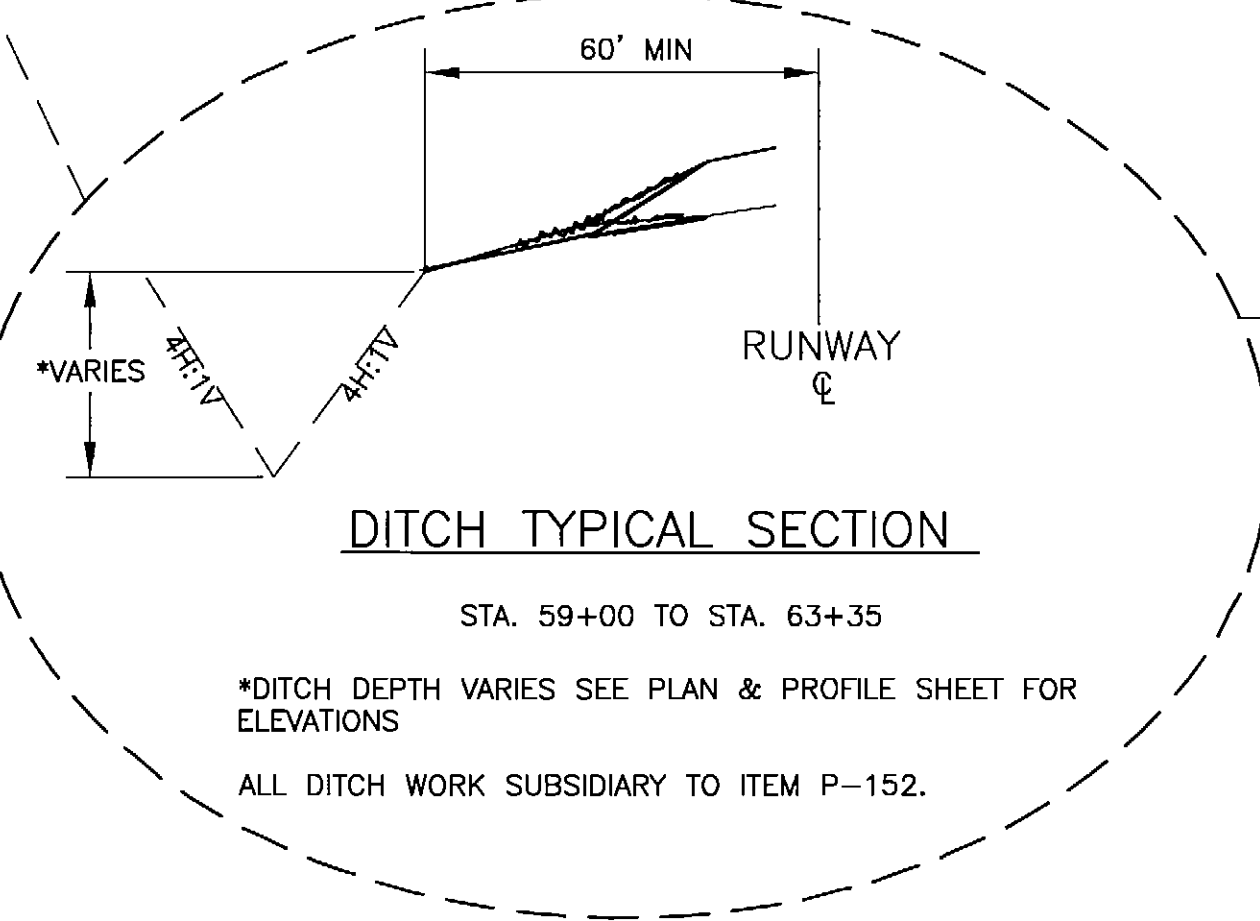
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RUNWAY TYPICAL SECTION

STA. 28+95 TO STA. 60+95

*CUT TYPICAL SHOWN LEFT — EXTEND 3% SLOPE AS NECESSARY TO PROVIDE DRAINAGE

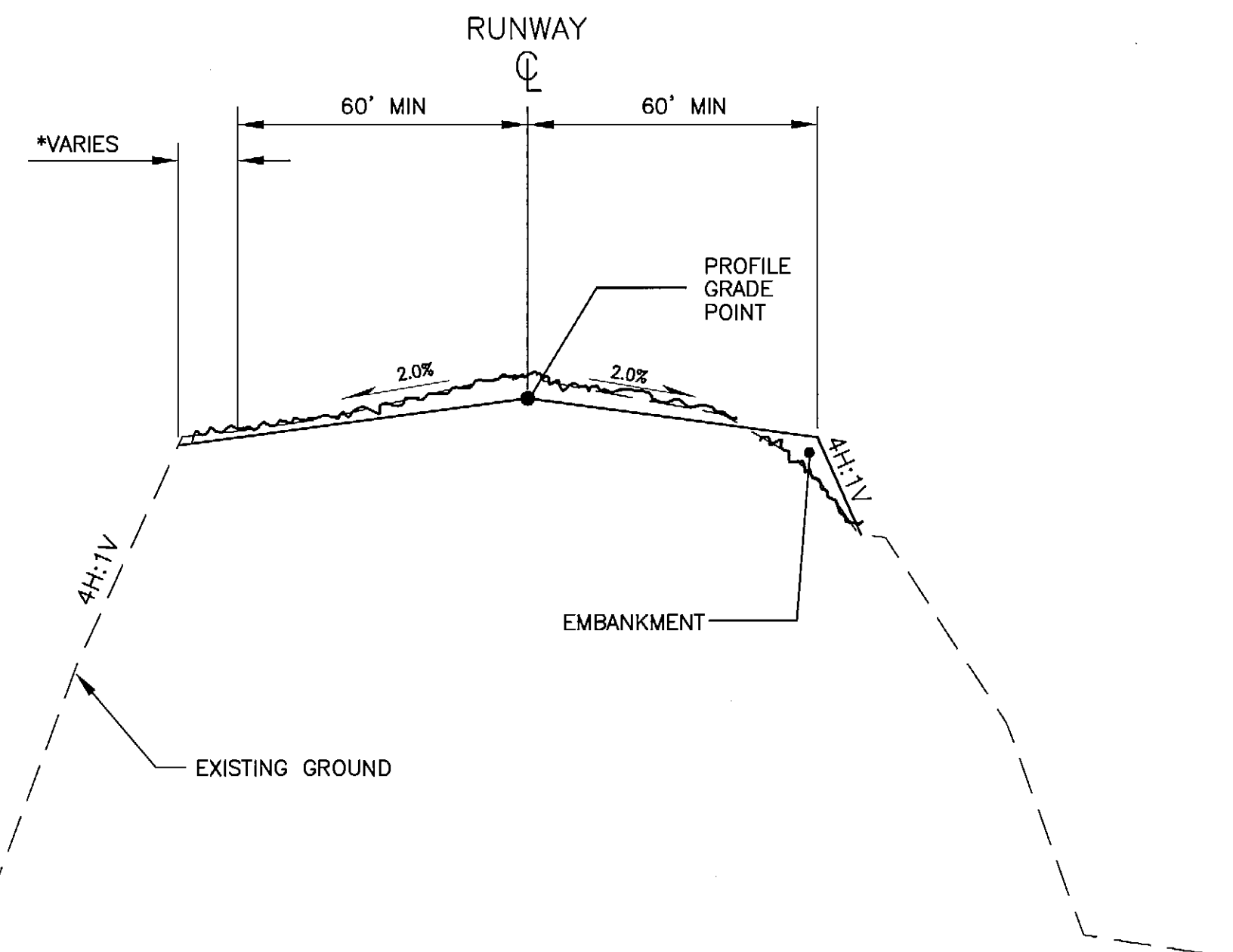


DITCH TYPICAL SECTION

STA. 59+00 TO STA. 63+35

*DITCH DEPTH VARIES SEE PLAN & PROFILE SHEET FOR ELEVATIONS

ALL DITCH WORK SUBSIDIARY TO ITEM P-152.

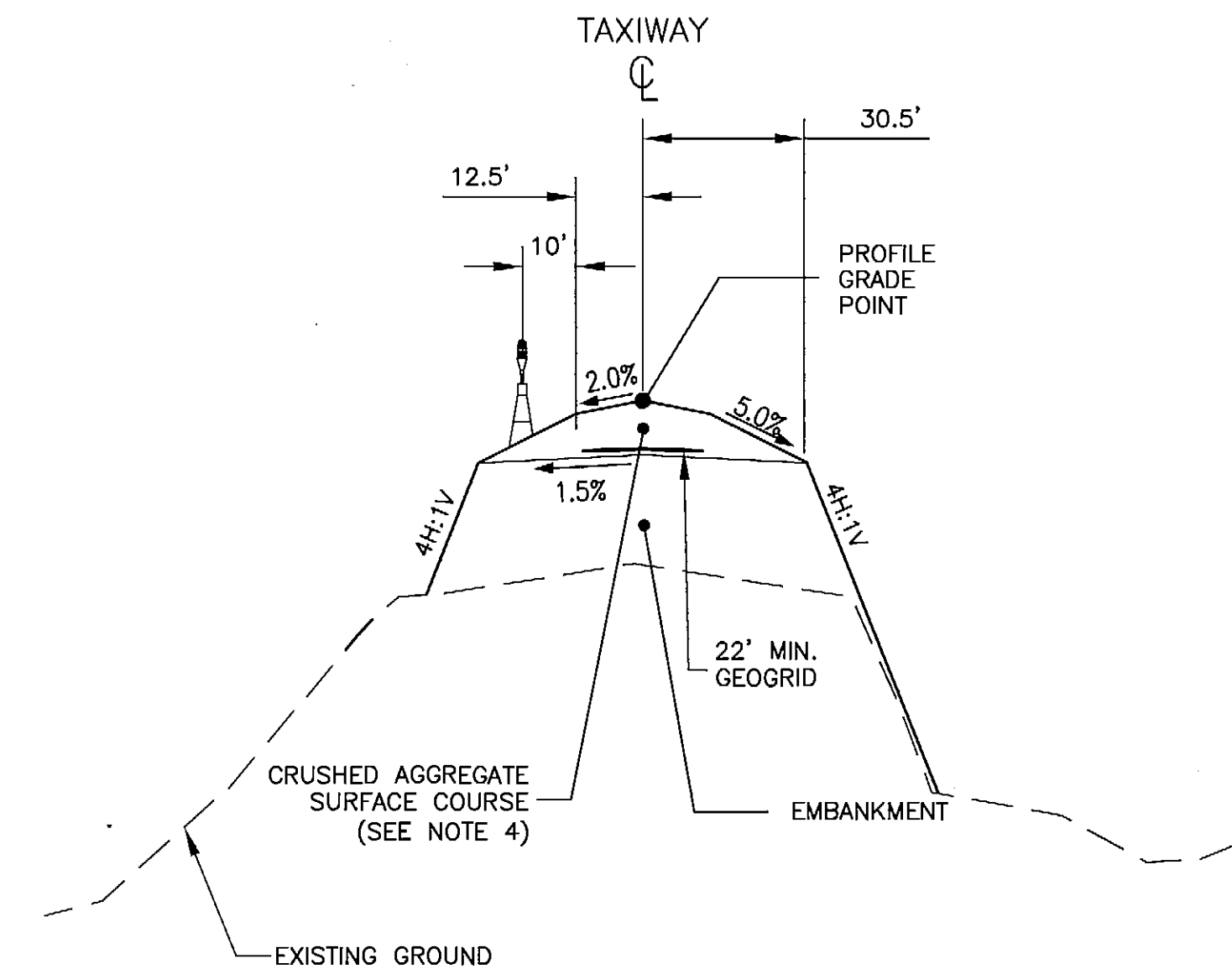


RUNWAY SAFETY AREA TYPICAL SECTION

STA. 26+30 TO STA. 28+95

STA. 60+95 TO STA. 63+35

*CUT TYPICAL SHOWN LEFT — EXTEND 2% SLOPE AS NECESSARY TO PROVIDE DRAINAGE. WARP SLOPE @ STA. 28+95 & STA. 60+95 TO MATCH RUNWAY TYPICAL SECTION.

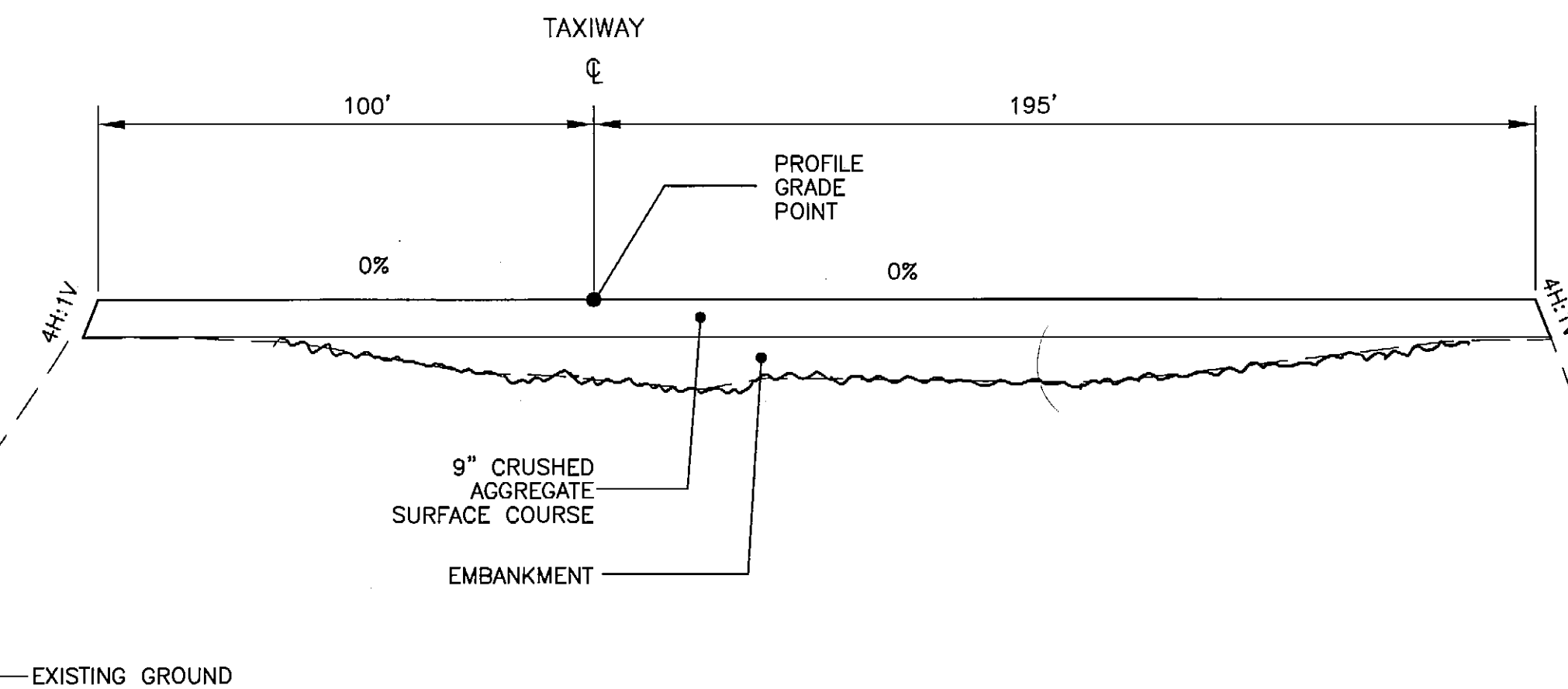


TAXIWAY TYPICAL SECTION

STA. 1+30 TO STA. 4+10

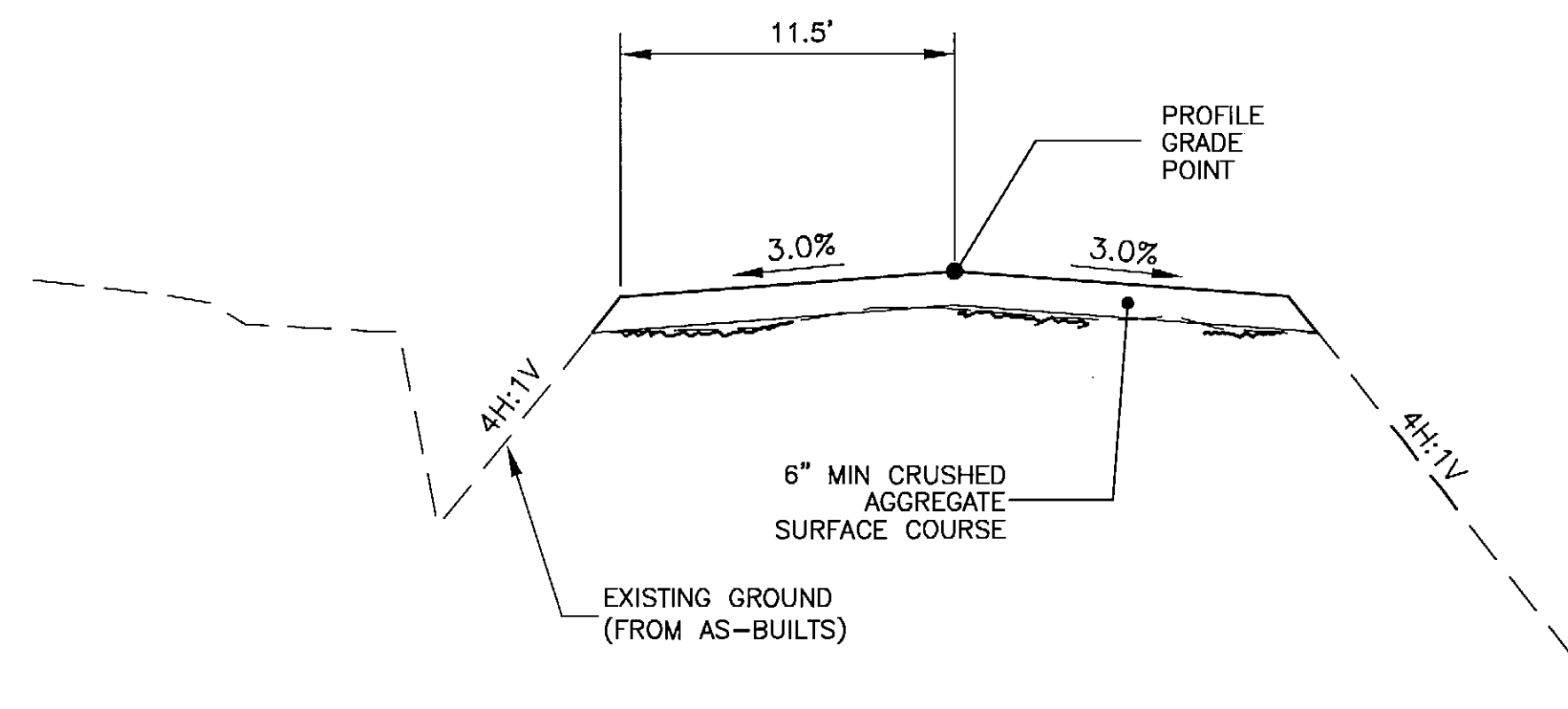
NOTES:

1. ALL DISTURBED SLOPES SHALL BE TRACKED SEEDDED AND MULCHED.
2. ALL AREAS DISTURBED DURING CONSTRUCTION SHALL BE SEEDDED.
3. ALL TYPICAL SECTION DRAWINGS ARE NOT TO SCALE.
4. CRUSHED AGGREGATE SURFACE COURSE DEPTH IS 12" AT RUNWAY AND TAXIWAY CENTERLINES.



APRON TYPICAL SECTION

T/W STA. 4+10 TO STA. 7+25

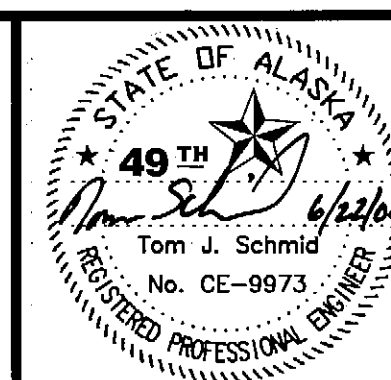


ACCESS ROAD TYPICAL SECTION

STA. 10+00 TO STA. 25+05.55

*EXISTING GROUND MAY VARY. FIELD ADJUST PROFILE AS DIRECTED BY THE ENGINEER TO PROVIDE 6" MINIMUM CRUSHED AGGREGATE SURFACE COURSE.

S.R.	3/4/08	AS-BUILT
BY	DATE	REVISIONS

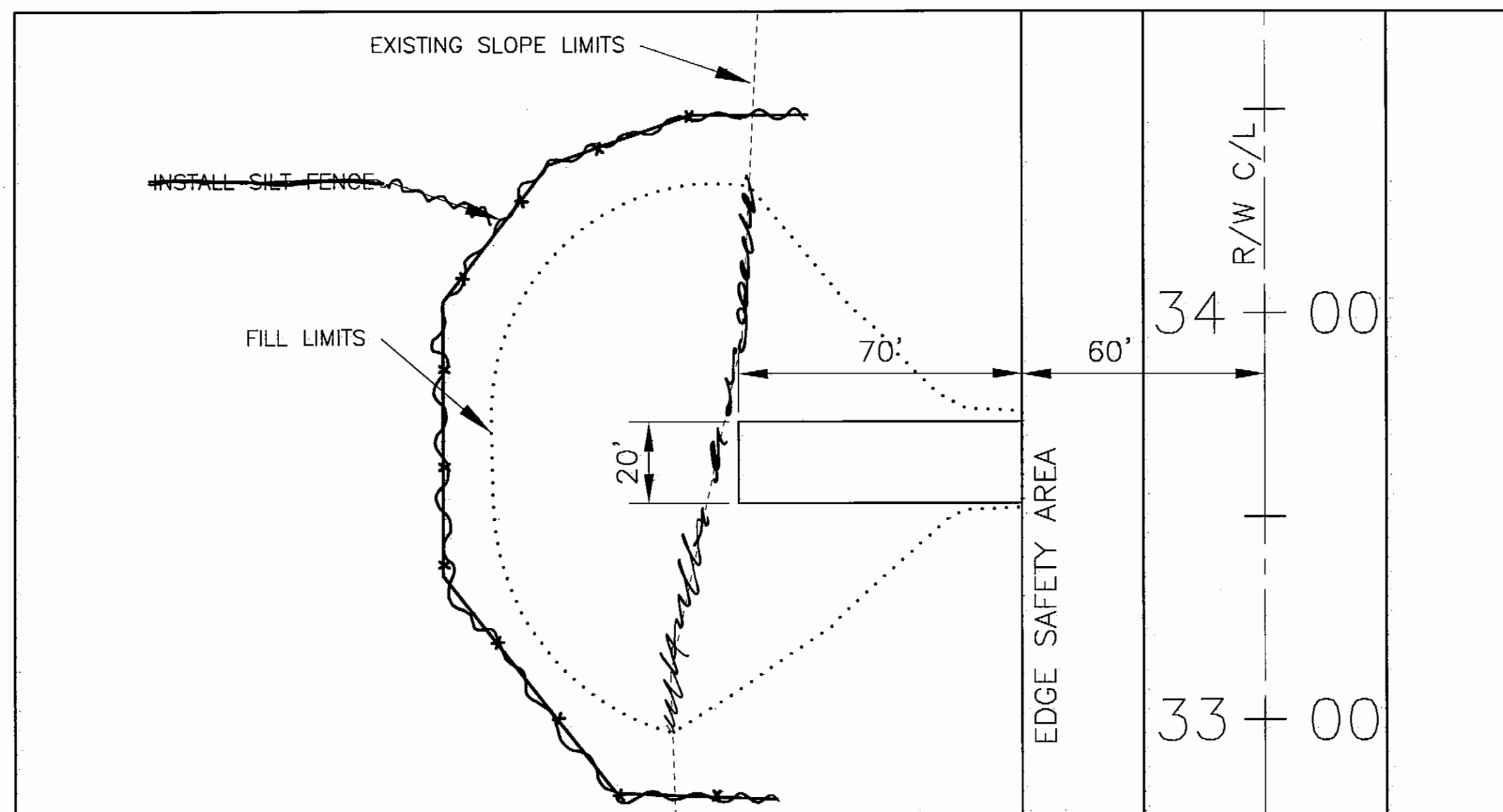


STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
CENTRAL REGION

CLARKS POINT AIRPORT
 CLARKS POINT, ALASKA
 AIRPORT RELOCATION STAGE II
 55598
 AIP No. 3-02-0062-0304
 TYPICAL SECTIONS

SHEET
 9
 OF
 34

2004 1:1 layout= w:\projects\Clark Point\Airport Relocation Phase II 55598 10 2003\Doc Design\Construction Drawings\papi pads details.dwg 6/18/2004 2:48:24 PM JOT
Date Plotted: 2004 1:1 layout= w:\projects\Clark Point\Airport Relocation Phase II 55598 10 2003\Doc Design\Construction Drawings\papi pads details.dwg 6/18/2004 2:48:24 PM JOT
Plot Ratio and Layout: 1:1
File: MST

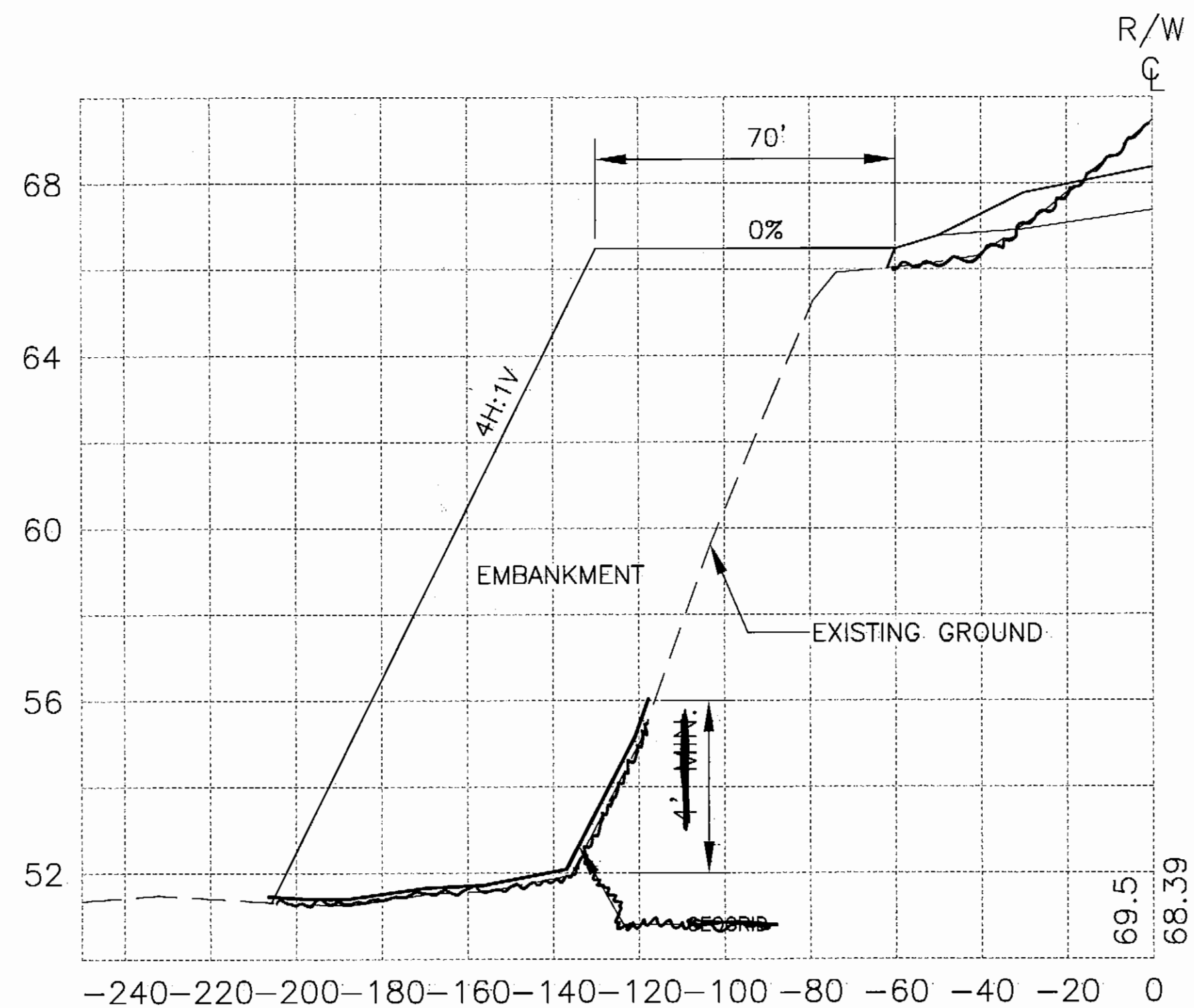


PAPI PAD PLAN

R/W 36 PAPI PAD SHOWN
R/W 18 OPPOSITE
ALL SLOPES ARE 4H:1V

PAPI PAD C/L, R/W 36
STA: 33+63.41 LEFT

PAPI PAD C/L, R/W 18
STA: 55+75 RIGHT



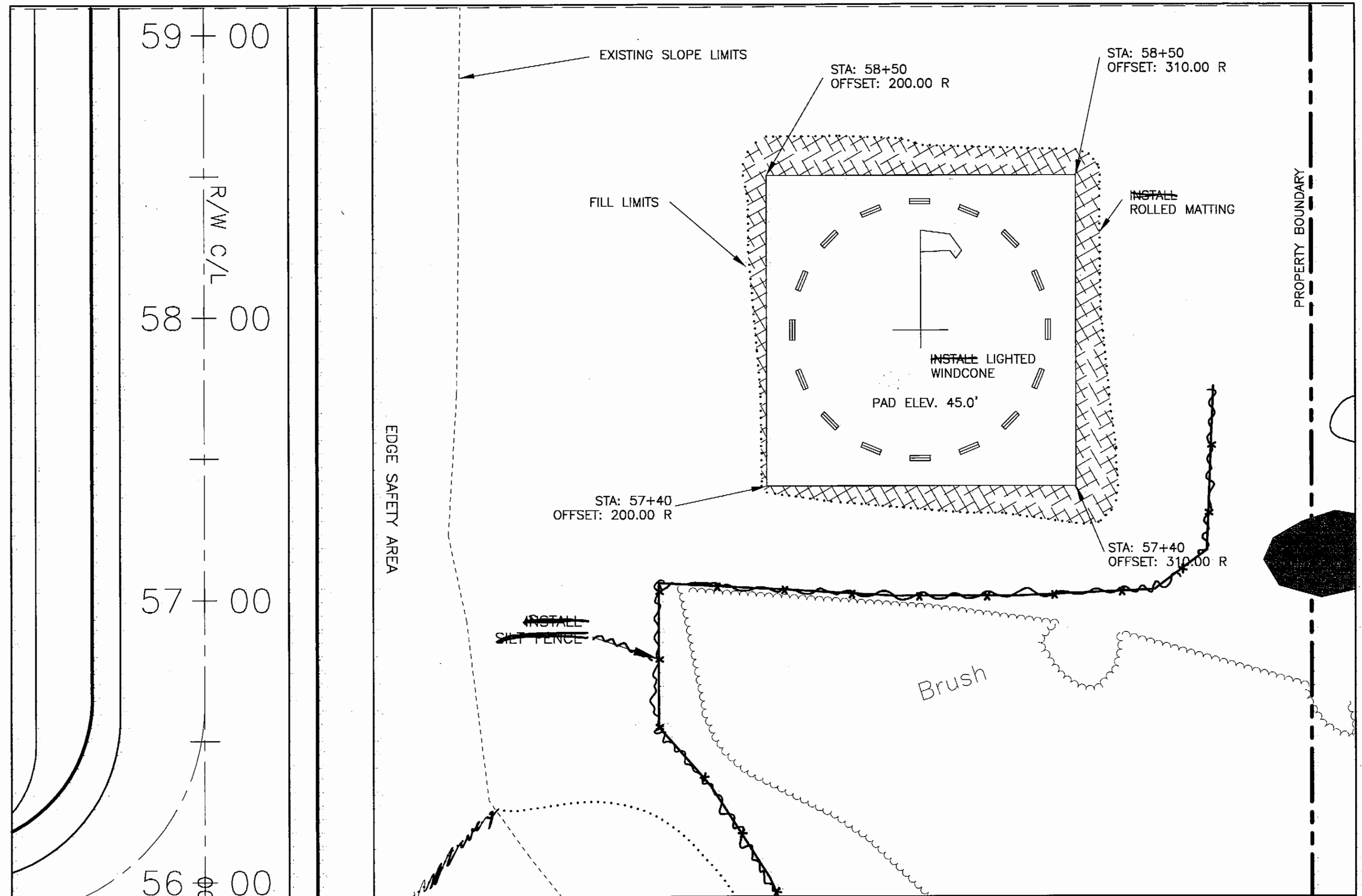
PAPI PAD TYPICAL SECTION

R/W 36 PAPI PAD SHOWN
R/W 18 OPPOSITE

R/W 36 PAPI PAD ELEV 66.5'
R/W 18 PAPI PAD ELEV 48.5'

NOTES:

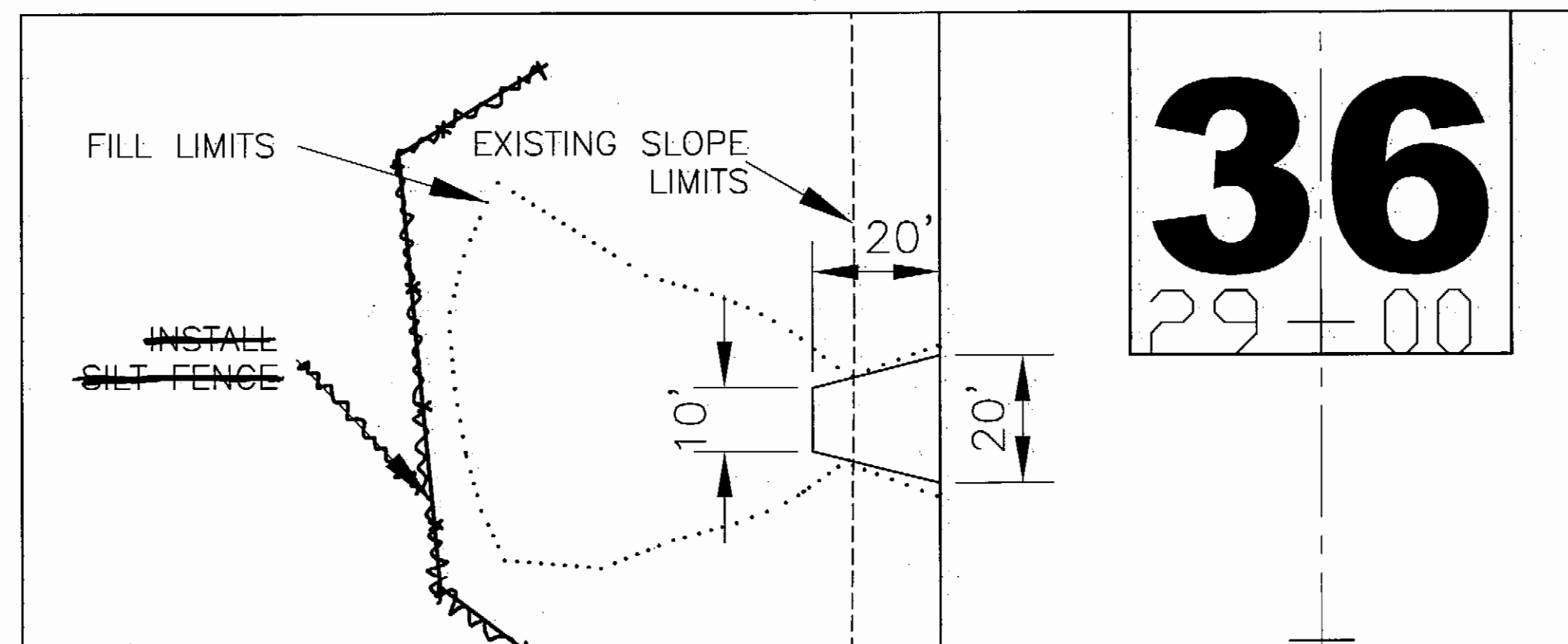
1. BENCHING REQUIRED PER SPEC P-152.



SEGMENTED CIRCLE PAD PLAN

NOTES:

1. SLOPES ARE 2H:1V, PLACE ROLLED MATTING ON SLOPES.
2. ALL WORK SHALL BE WITHIN PREVIOUSLY DISTURBED AREAS.
3. IF VIEW OF THE SEGMENTED CIRCLE IS BLOCKED BY BRUSH, HAND CLEAR BRUSH AS DIRECTED BY THE ENGINEER.



REIL PAD PLAN

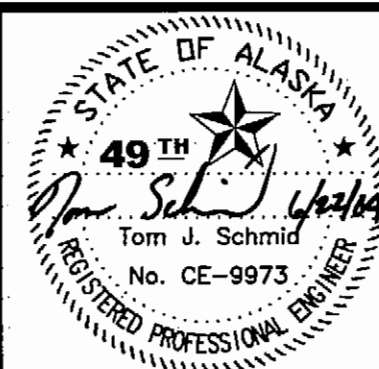
REIL PADS C/L, R/W 36
STA: 28+85 RIGHT & LEFT

R/W 36, LEFT REIL PAD SHOWN
ALL SLOPES ARE 4H:1V

REIL PADS C/L, R/W 18
STA: 61+95 RIGHT & LEFT

S.R. 3/4/08 AS-BUILT

BY DATE REVISIONS

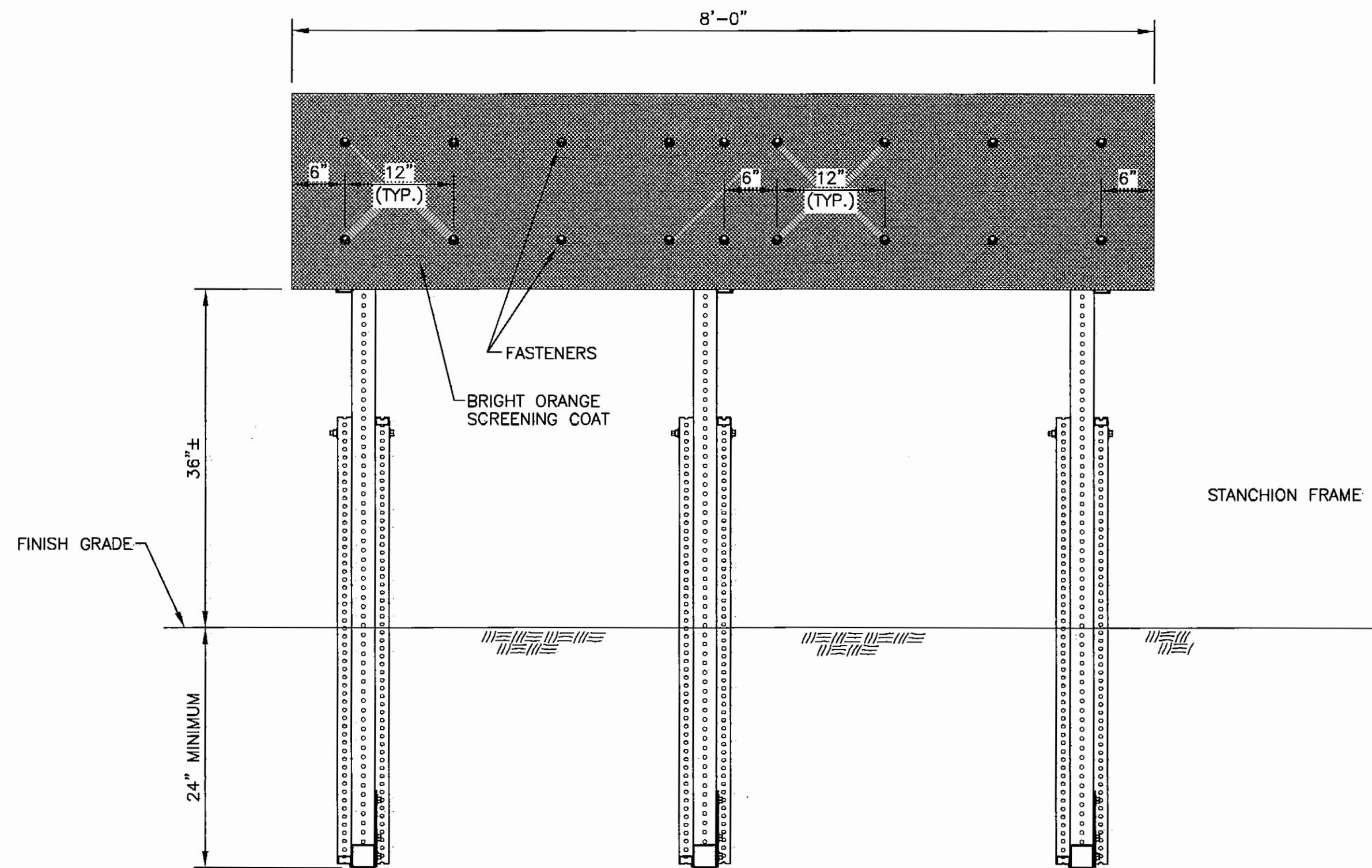


STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
CENTRAL REGION

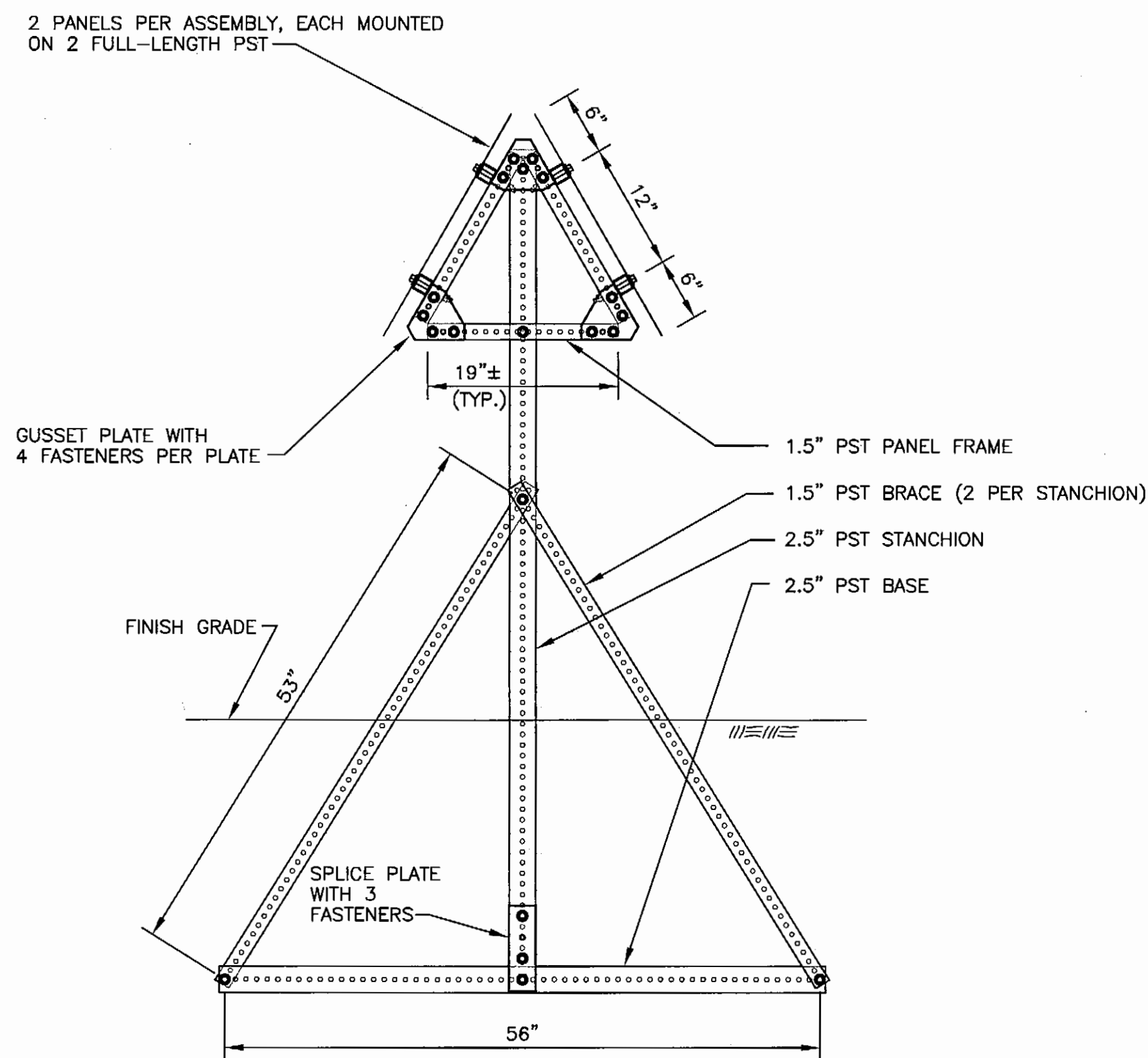
CLARKS POINT AIRPORT
CLARKS POINT, ALASKA
AIRPORT RELOCATION STAGE II
55598
AIP No. 3-02-0062-0304
PAPI PAD & SEGMENTED CIRCLE PAD DETAILS

SHEET
10
OF
34

2004
Date Plotted: 1=1, v=plan
Plot Ratio and Layout: 1=1, v=plan
File: W:\Projects\Clarks Point\Airport Relocation Phase II 55598 10 2003\Civil Design\Construction drawings\c segg.dwg 6/18/2004 2:52:20 PM AUT
Designed By: TJS
Checked By: BRH
Drawn By: MGT

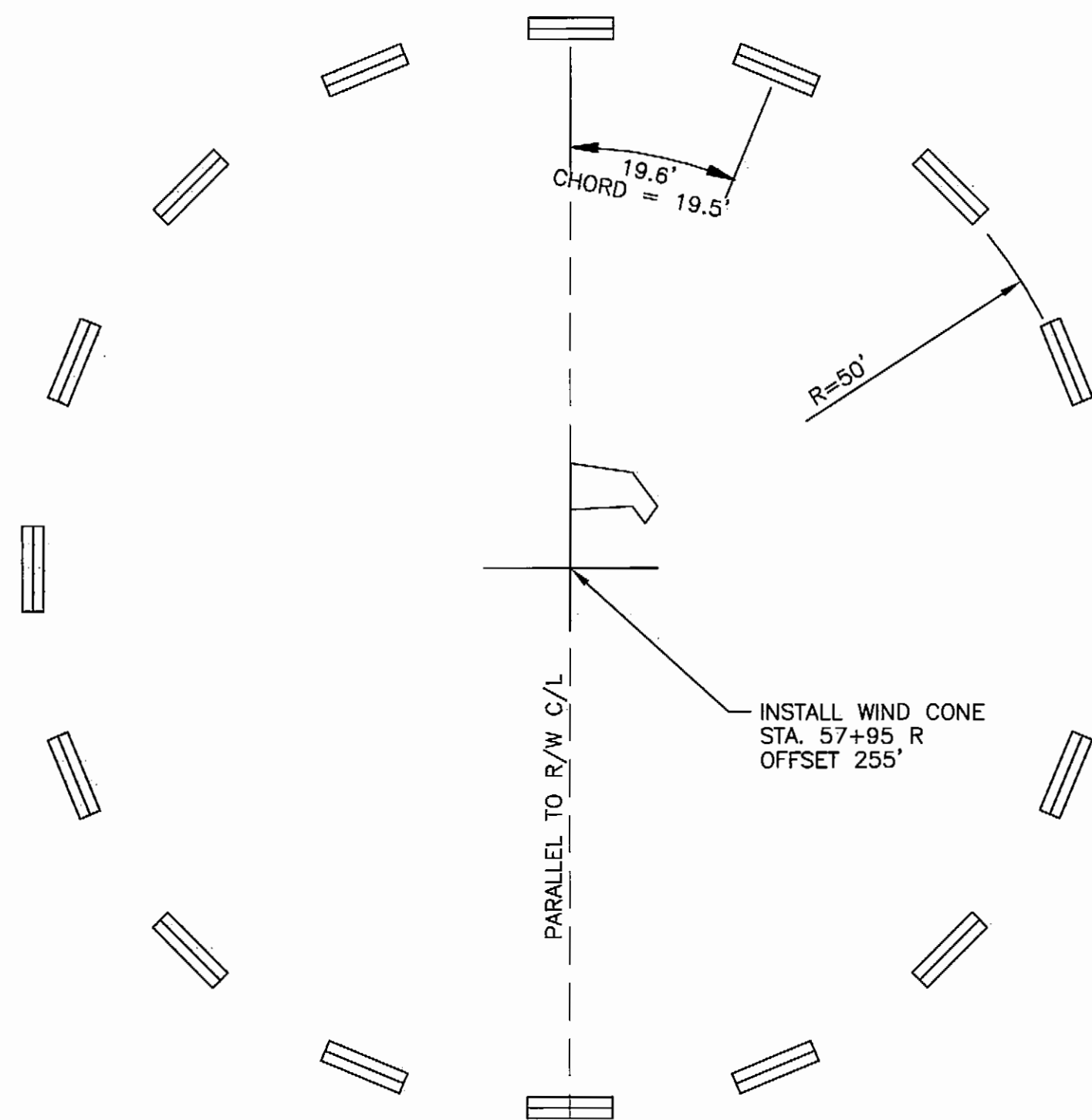


FRONT VIEW DETAIL
NOT TO SCALE

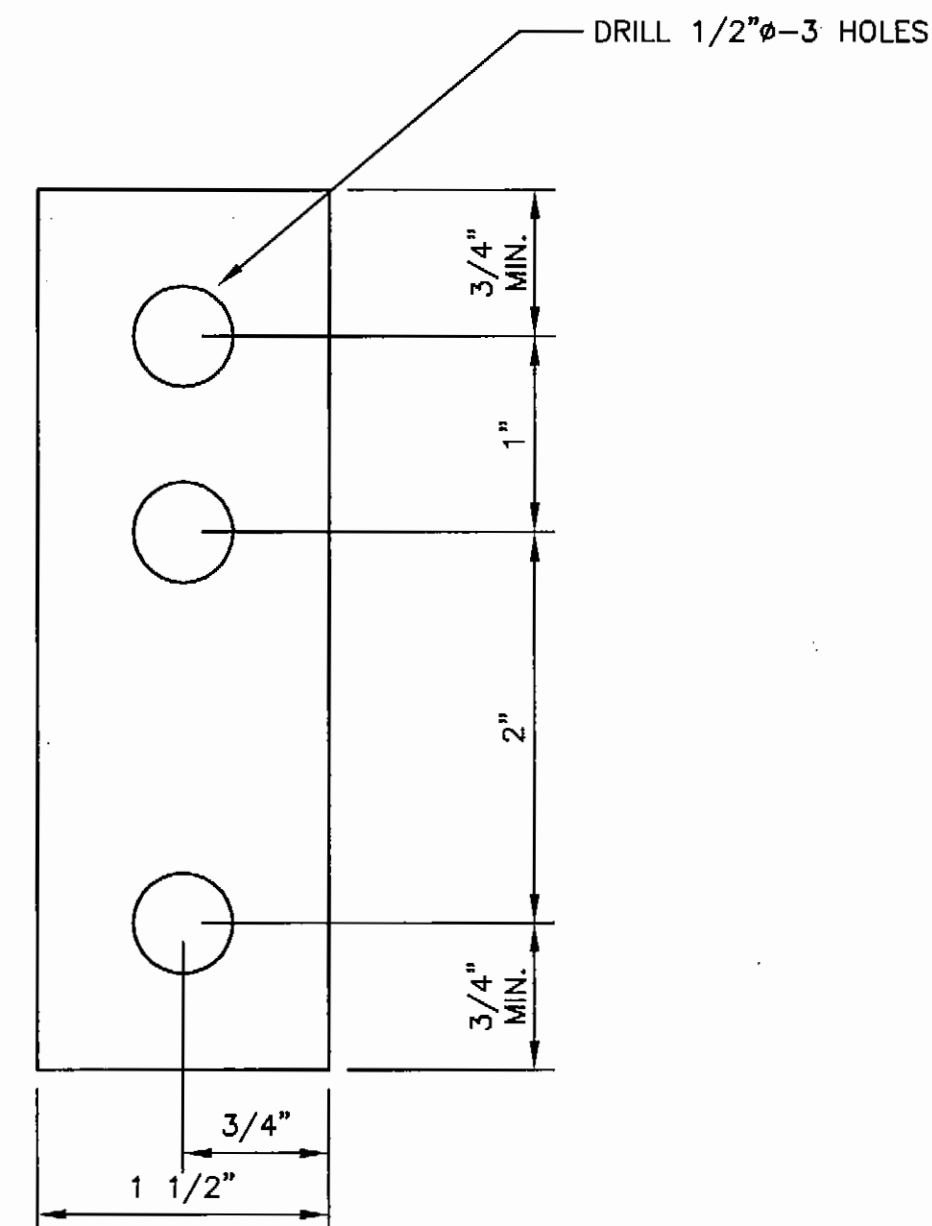


STANCHION FRAME
NOT TO SCALE

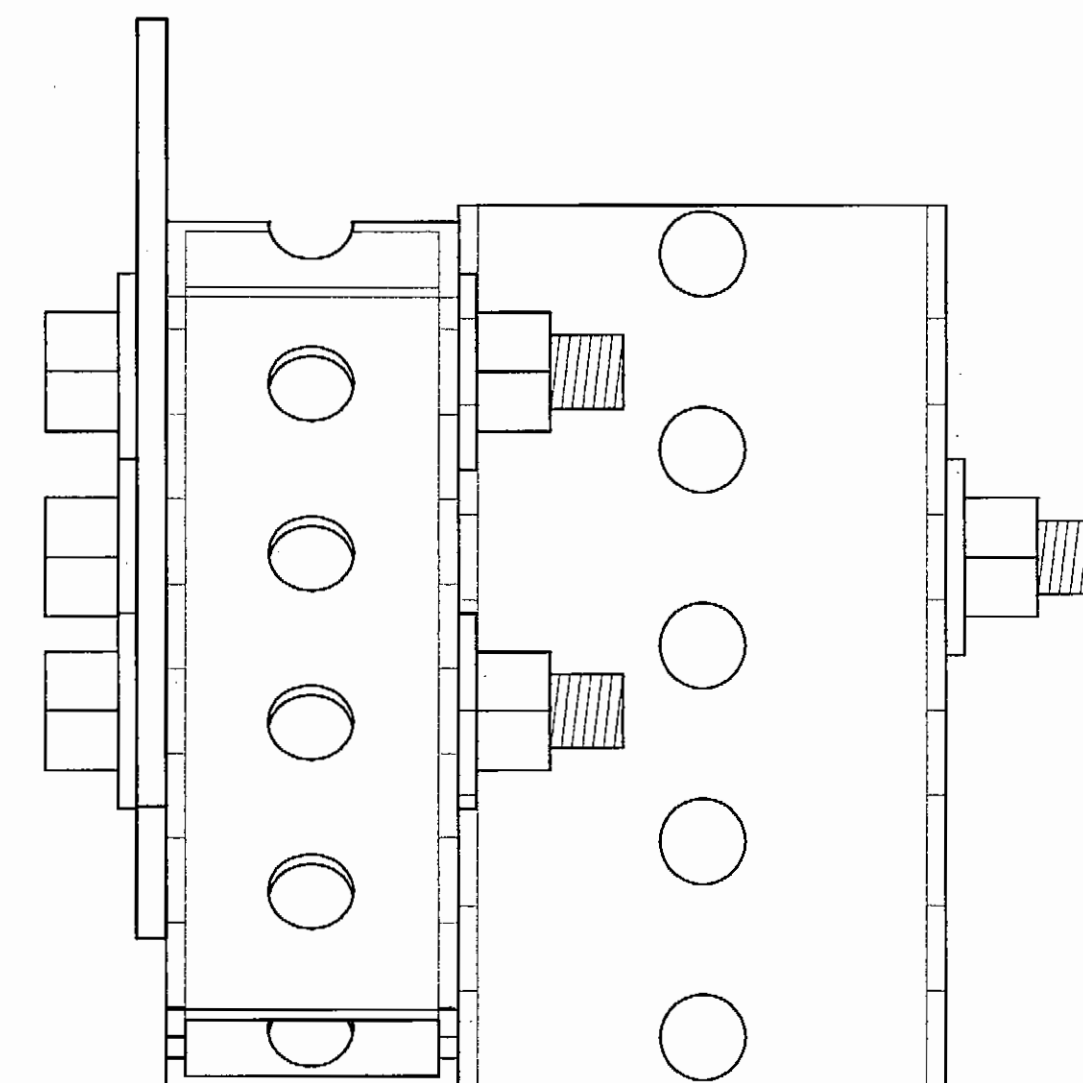
SEGMENTED CIRCLE PANELS



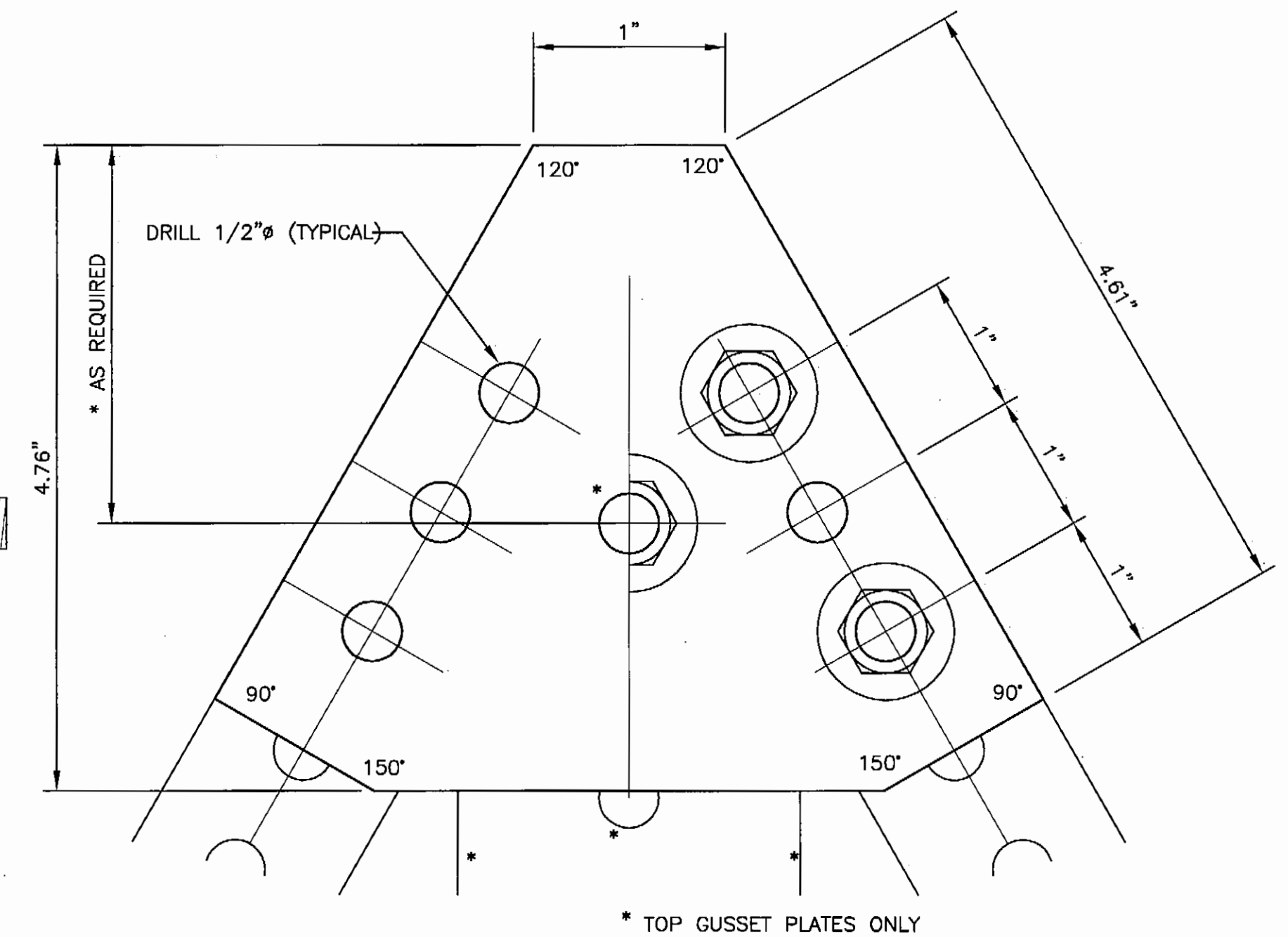
SEGMENTED CIRCLE LAYOUT
NOT TO SCALE



SPLICE PLATE DETAIL
NOT TO SCALE



GUSSET PLATE DETAILS
NOT TO SCALE

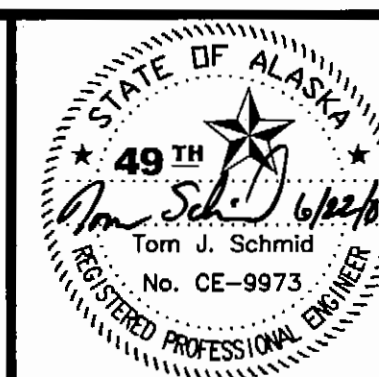


FRONT VIEW

NOTES:

1. PERFORATED STEEL TUBING (PST) SHALL BE 0.1" THICK SQUARE, COLD ROLLED CARBON STEEL PER ASTM A 426, CORNER WELDED, GALVANIZED.
2. PLATES SHALL BE 1/8" STEEL, ASTM A 36, GALVANIZED.
3. FASTENERS SHALL BE 3/8" DIA. GALVANIZED GRADE 2 BOLTS WITH NUT AND 2 1" DIA. WASHERS EACH. LENGTH SHALL BE AS REQUIRED TO FASTEN MEMBERS.
4. PANELS SHALL BE 0.08" ALUMINUM WITH A BRIGHT ORANGE SCREENING COAT ON ONE SIDE.
5. ALTERNATE FASTENER AND PLATE CONFIGURATIONS MAY BE APPROVED BY THE ENGINEER.

S.R.	3/4/08	AS-BUILT
BY	DATE	REVISIONS

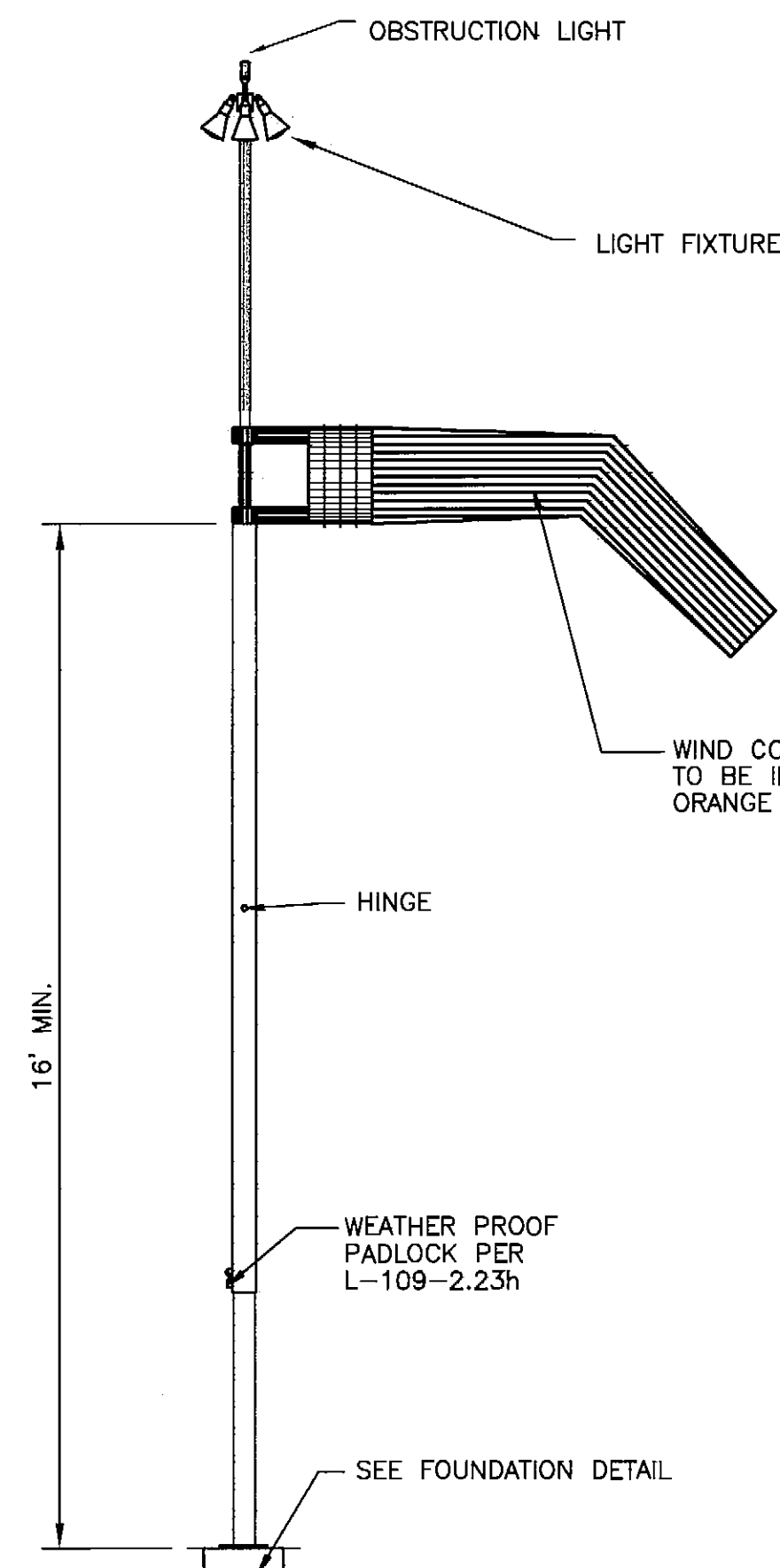


STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
CENTRAL REGION

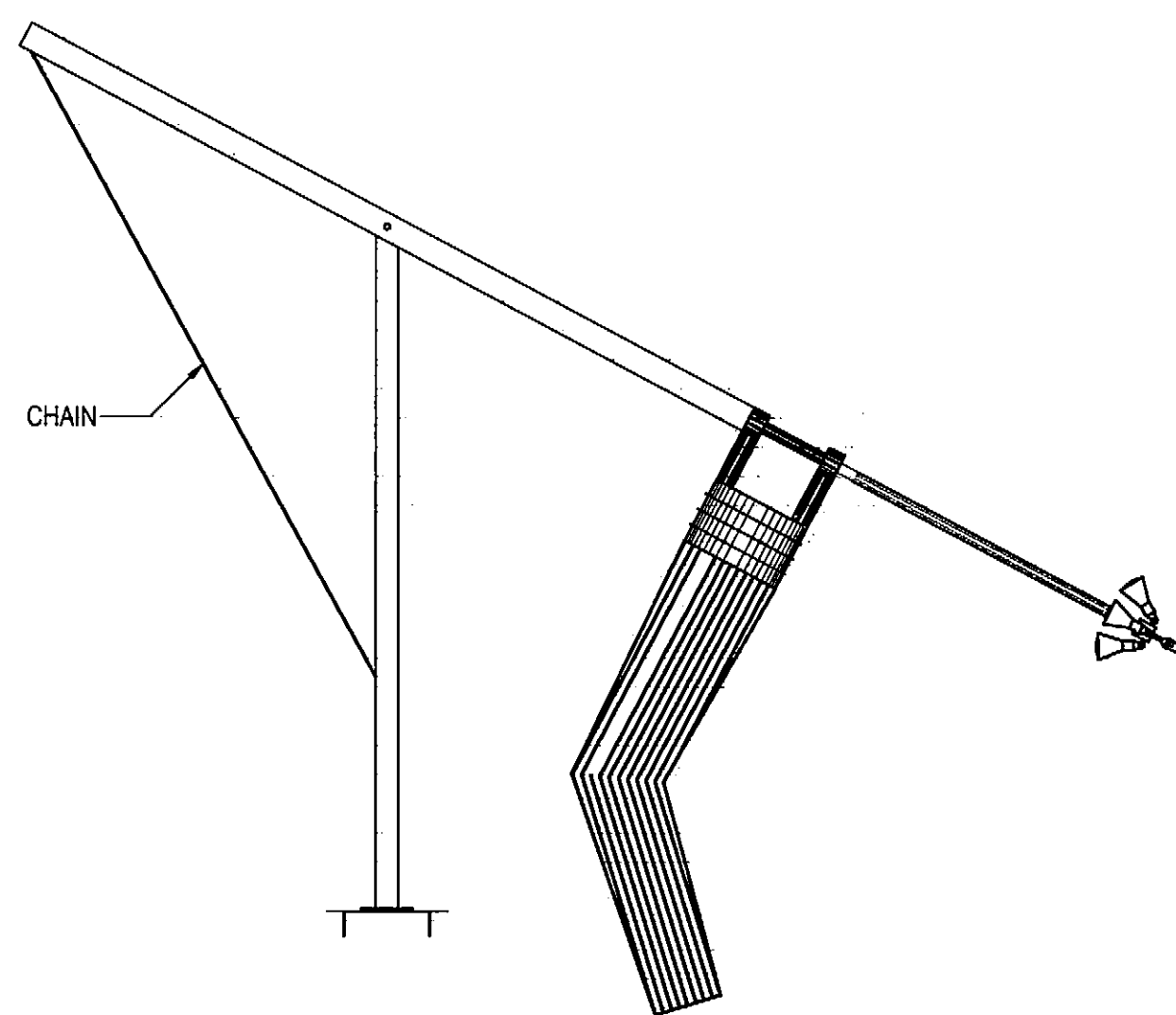
CLARKS POINT AIRPORT
CLARKS POINT, ALASKA
AIRPORT RELOCATION STAGE II
55598
AIP No. 3-02-0062-0304
SEGMENTED CIRCLE
PANEL DETAILS

SHEET
11
OF
34

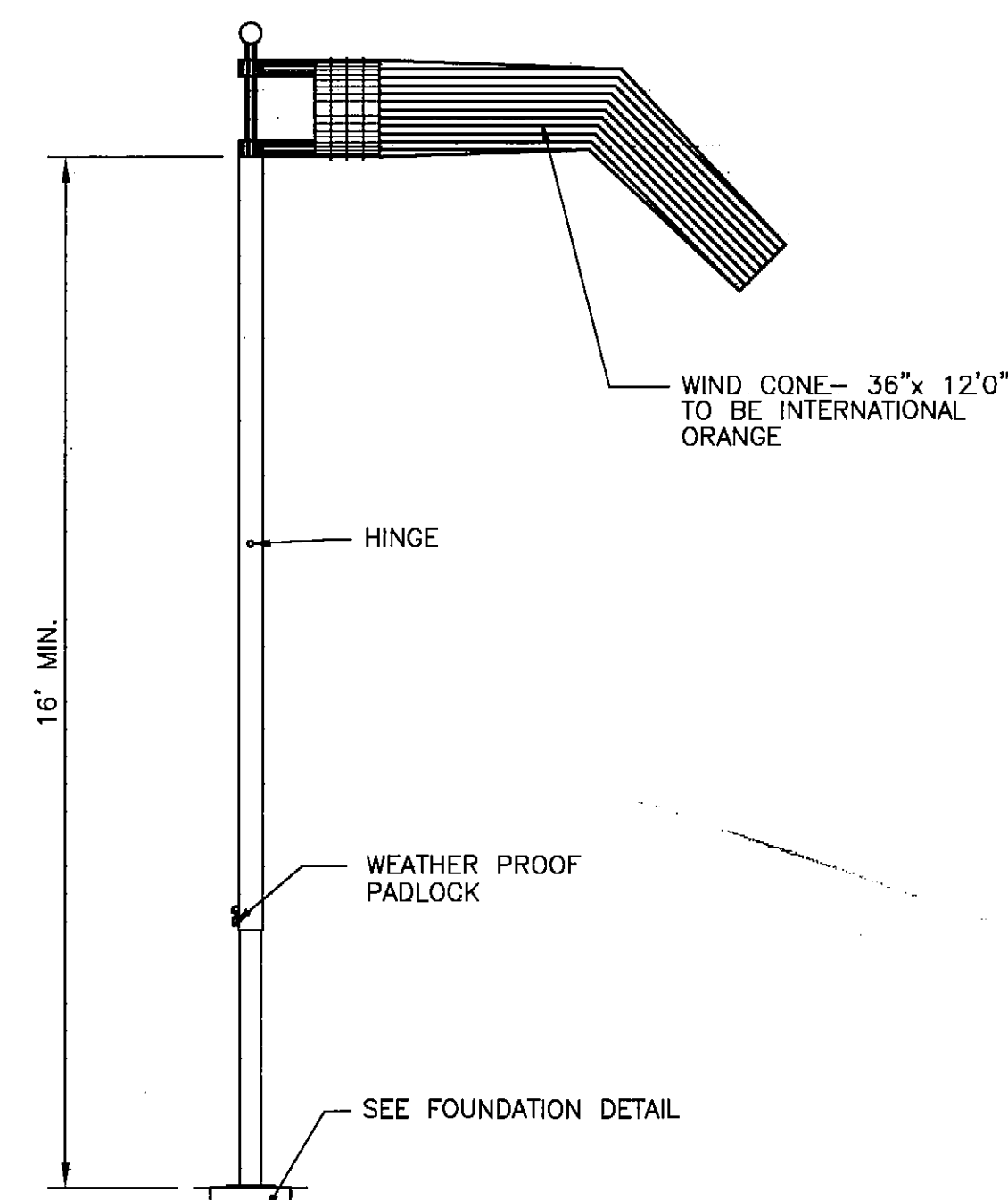
Date Plotted: 2004
 Plot Ratio and Layout: 1"=1'
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 Designed By: TJS
 Checked By: BRH
 Drawn By: MGT



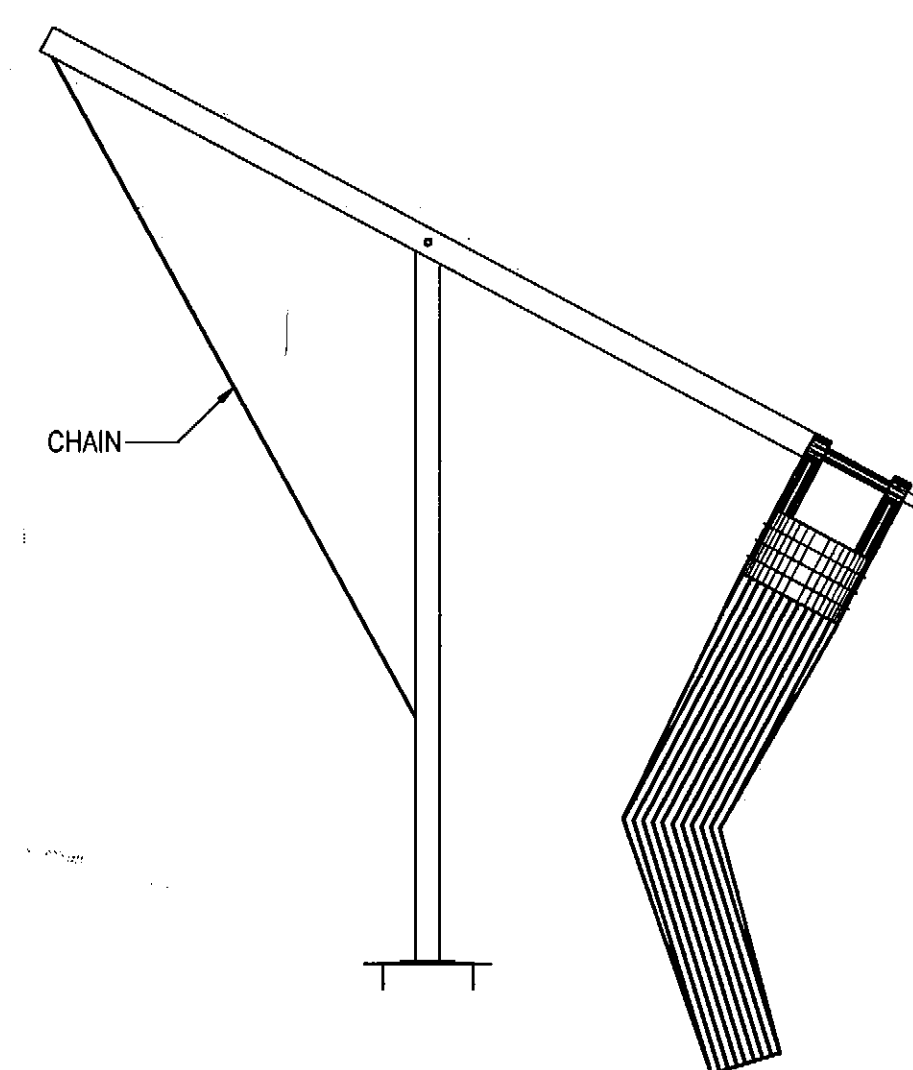
RAISED WIND CONE



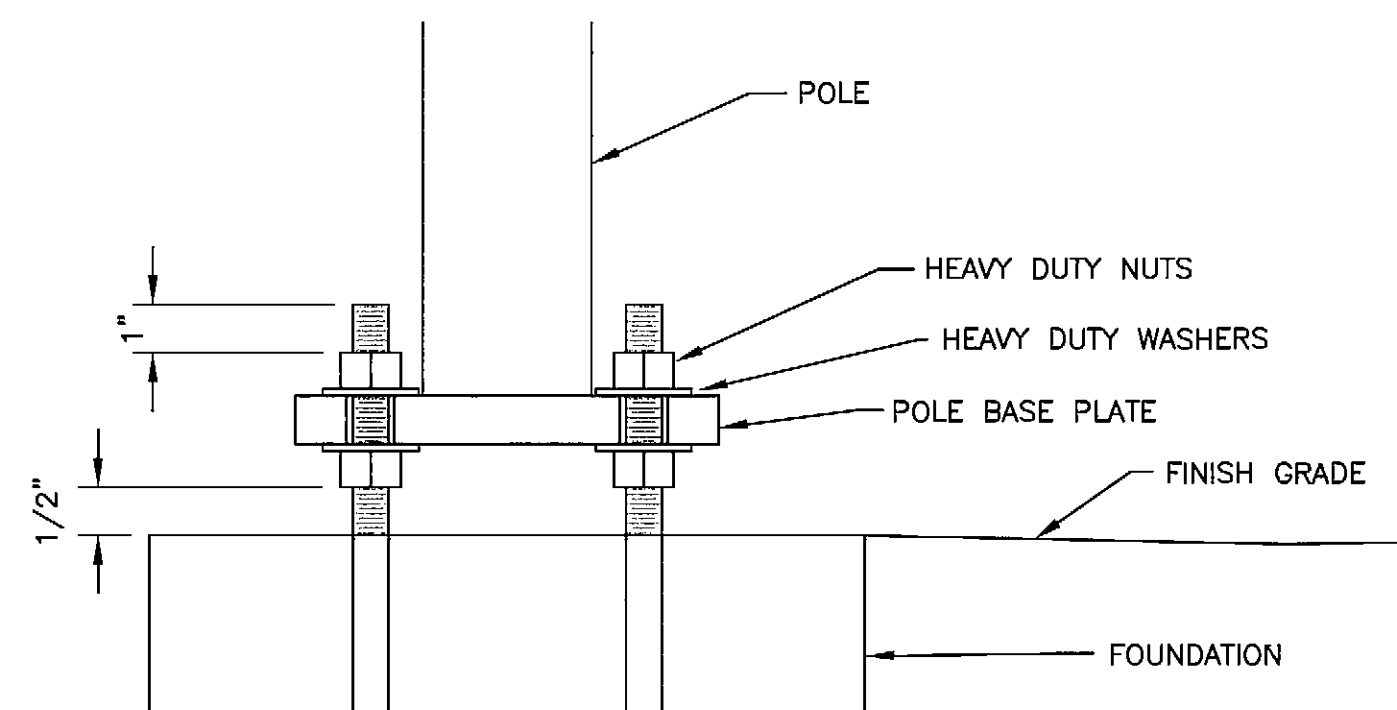
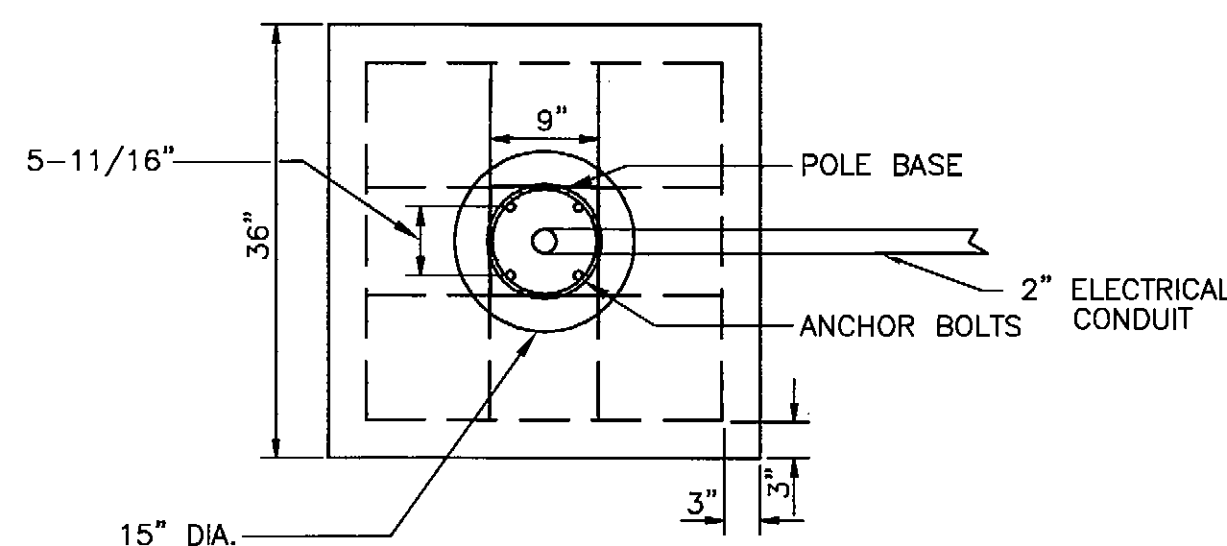
LOWERED WIND CONE



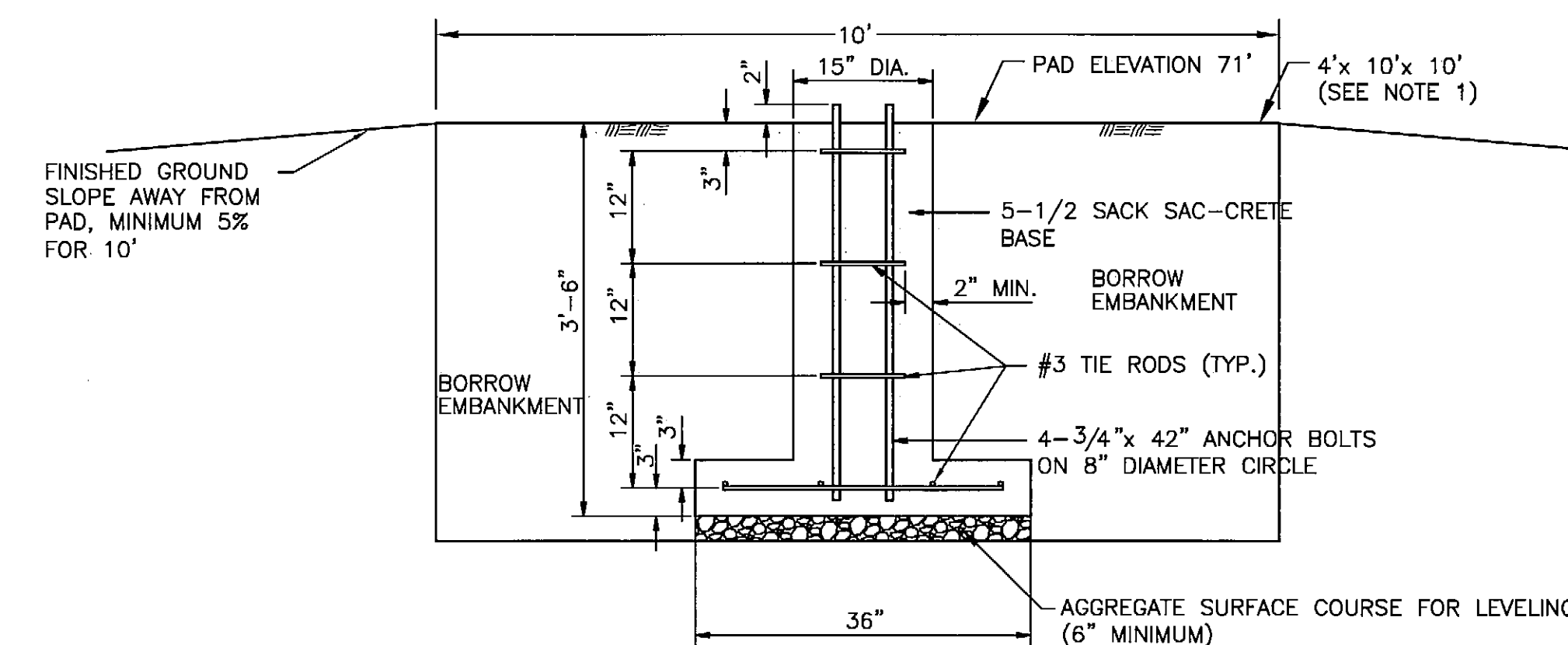
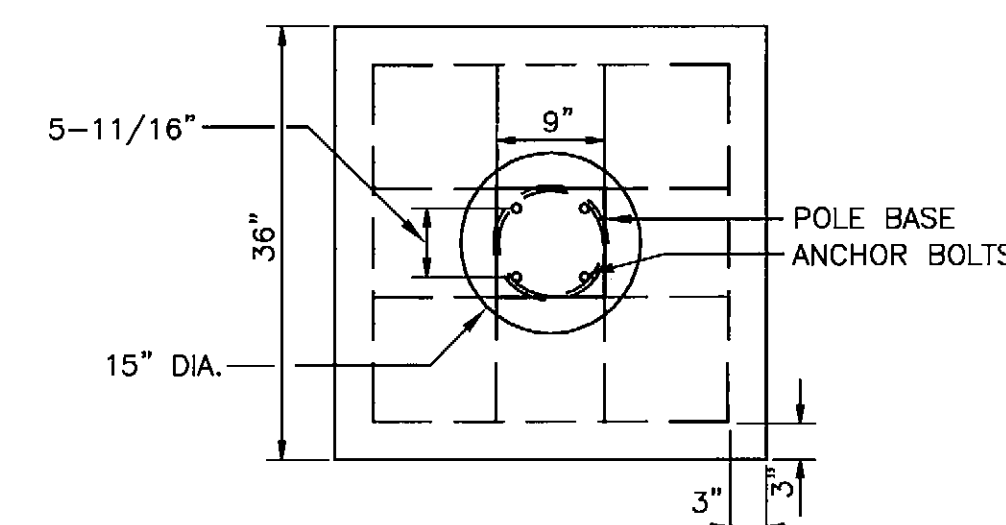
RAISED WIND CONE



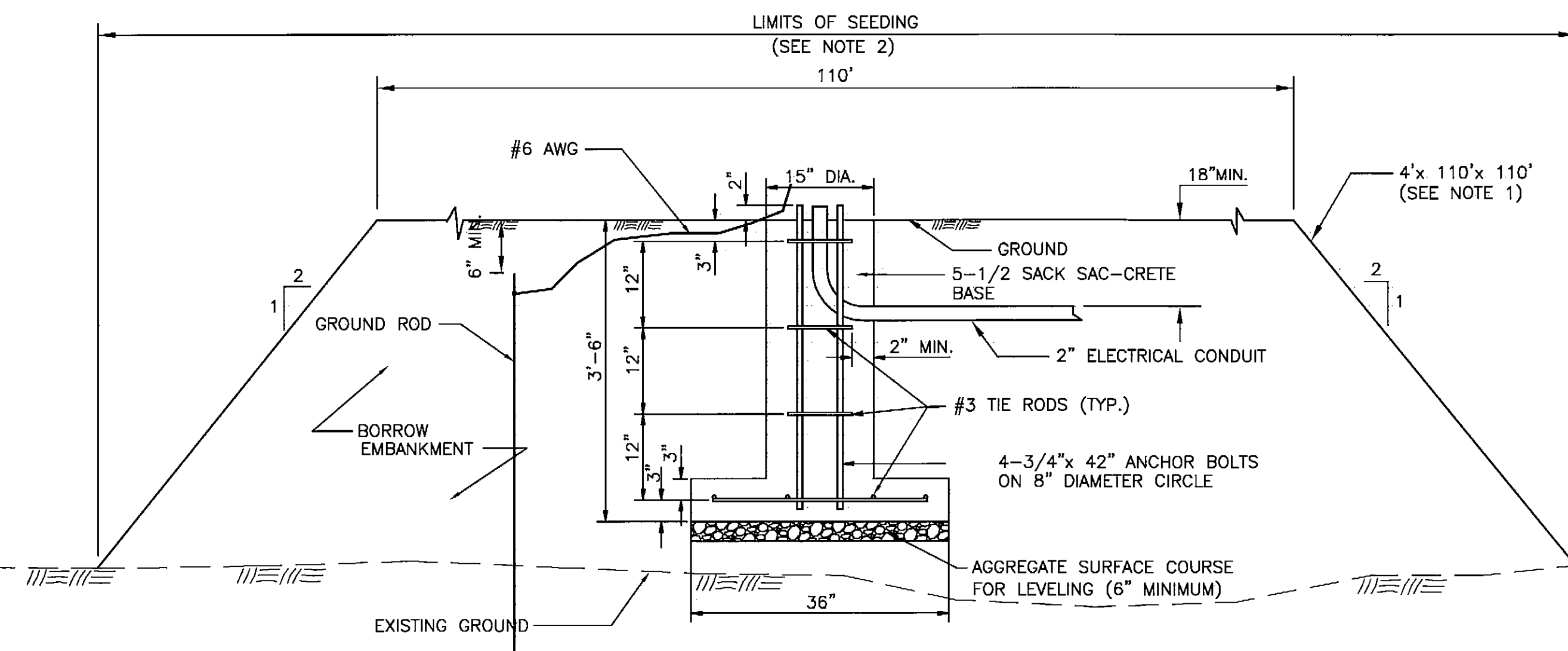
LOWERED WIND CONE



POLE MOUNTING DETAIL



FOUNDATION DETAILS



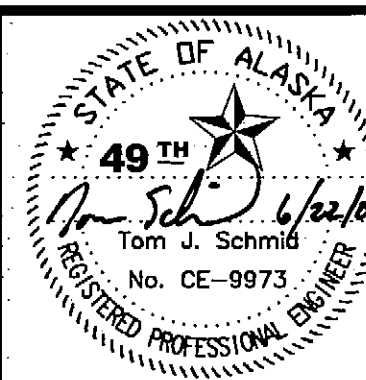
FOUNDATION DETAILS

LIGHTED WIND CONE DETAILS

NOTES:

- PADS WILL BE CONSTRUCTED WITH BORROW EMBANKMENT ITEM P-152. FOUNDATION CONSTRUCTION IS SUBSIDIARY AND SHALL BE INCIDENTAL TO THE CONTRACT, AND NO SEPARATE PAYMENT WILL BE MADE.
- PLACE ROLLED MATTING ON SEGMENTED CIRCLE PAD SLOPES.

UNLIGHTED WIND CONE DETAILS



STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 AND PUBLIC FACILITIES
 CENTRAL REGION

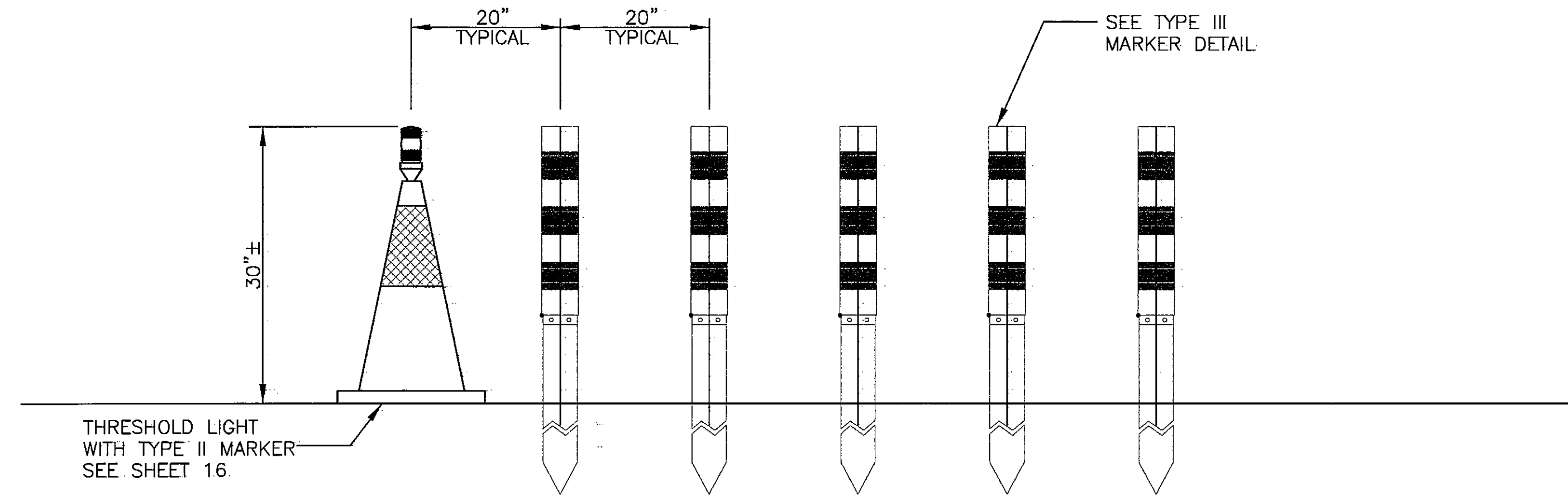
CLARKS POINT AIRPORT
 CLARKS POINT, ALASKA
 AIRPORT RELOCATION STAGE II
 55598
 AIP No. 3-02-0062-0304
 LIGHTED AND UNLIGHTED
 WIND CONE AND PAD DETAILS

SHEET
 12
 OF
 34

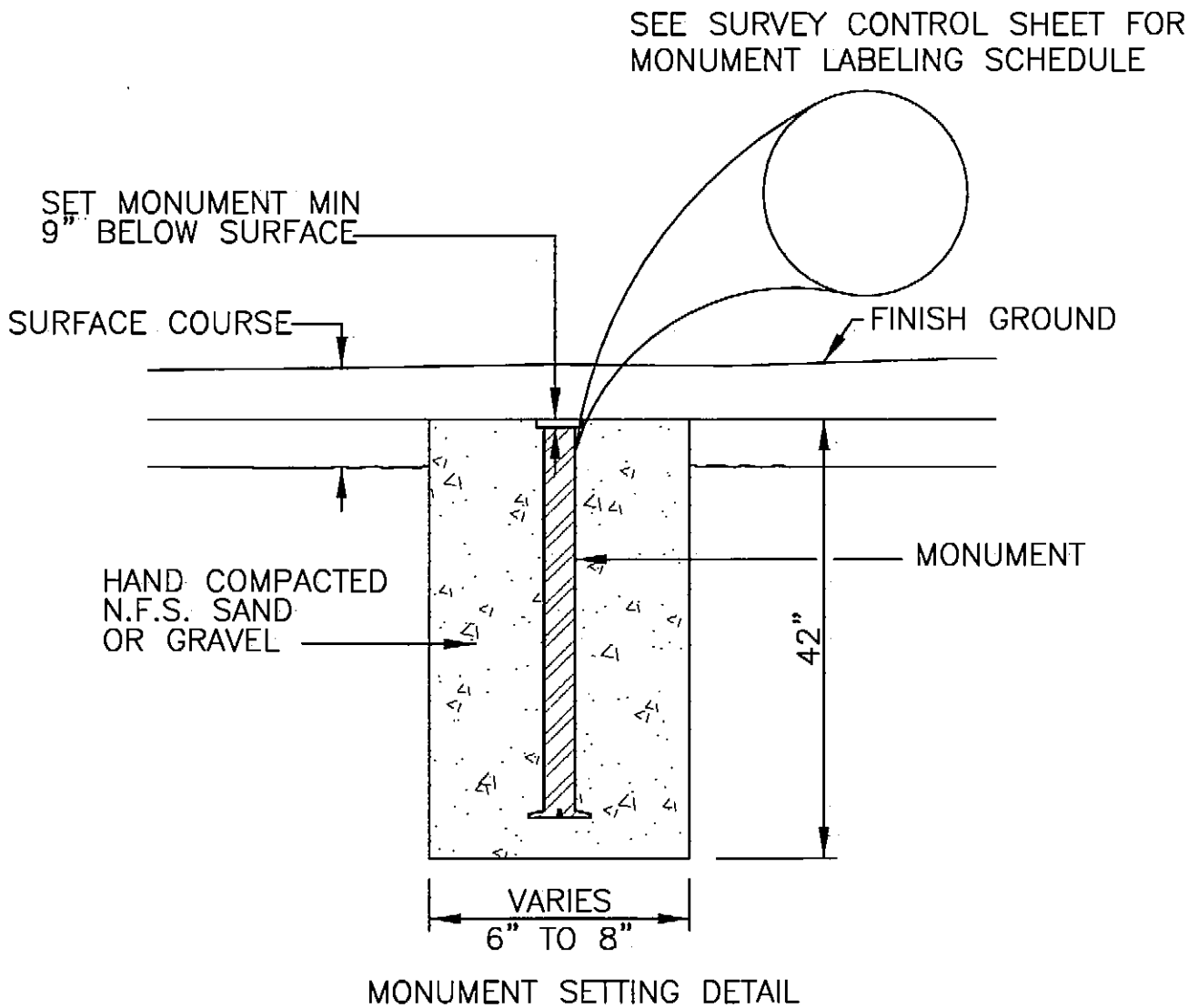
2004
Date Plotted: 1=1, layout= W:\Projects\Clarks Point\Airport Relocation Phase II 55598 10-2003\Civil Design\Construction drawings\CL_Pnt_Airport.dwg 06/14/2004
Plot Ratio and Layout: TJS
File: MGT

RUNWAY THRESHOLD MARKER NOTES:

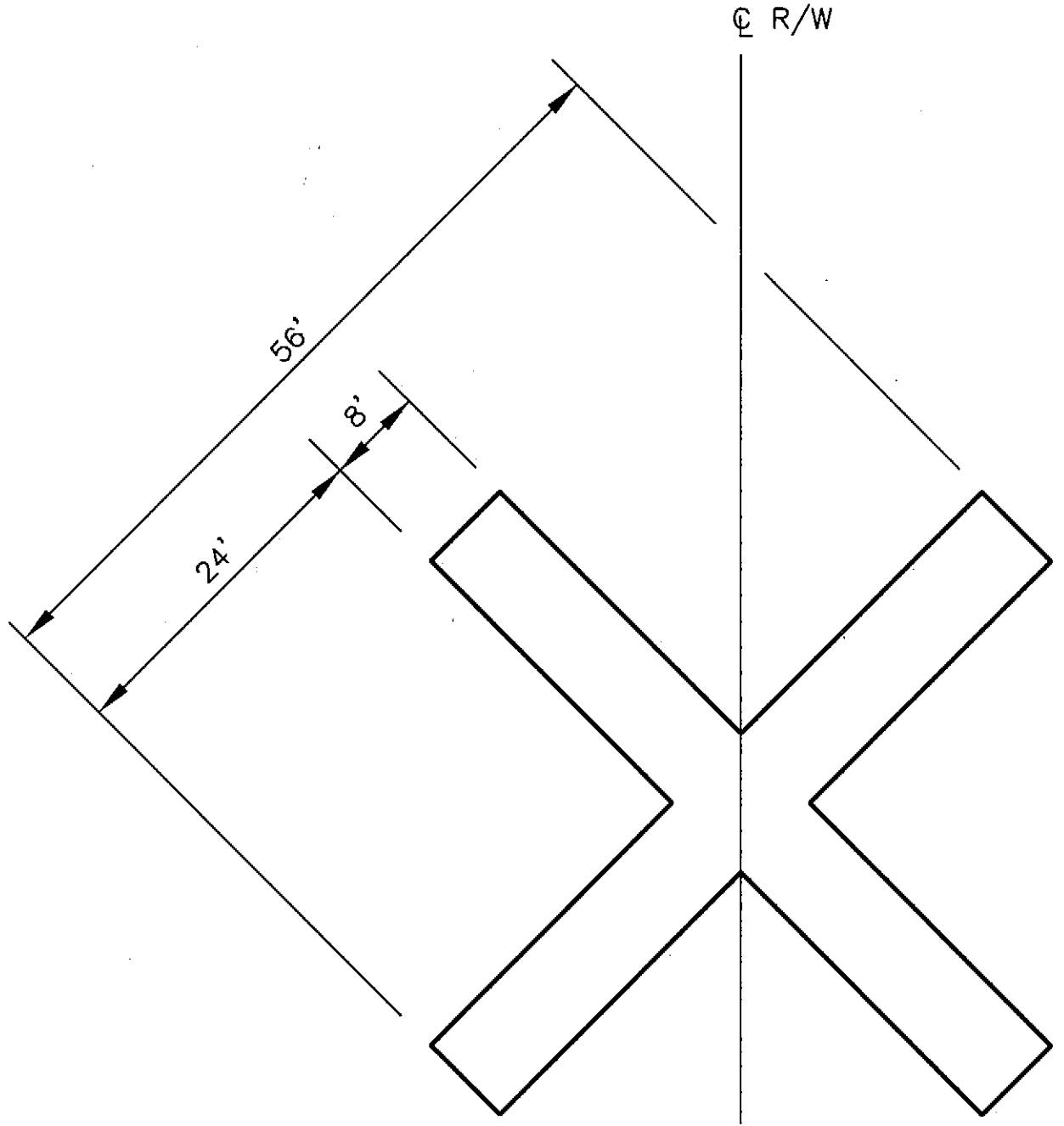
1. MISCELLANEOUS GRADING FOR INSTALLATION OF RUNWAY THRESHOLD MARKERS AS PER DETAIL IS INCIDENTAL TO THE CONTRACT AND NO SEPARATE PAYMENT WILL BE MADE FOR THIS WORK.
2. THRESHOLD MARKER SHALL BE INSTALLED IN LINE WITH THE THRESHOLD LIGHTS.
3. TYPE II MARKER SHALL BE INSTALLED OVER EACH LIGHT FIXTURE.



RUNWAY THRESHOLD MARKER LAYOUT
NOT TO SCALE



SURVEY PRIMARY MONUMENT
NOT TO SCALE



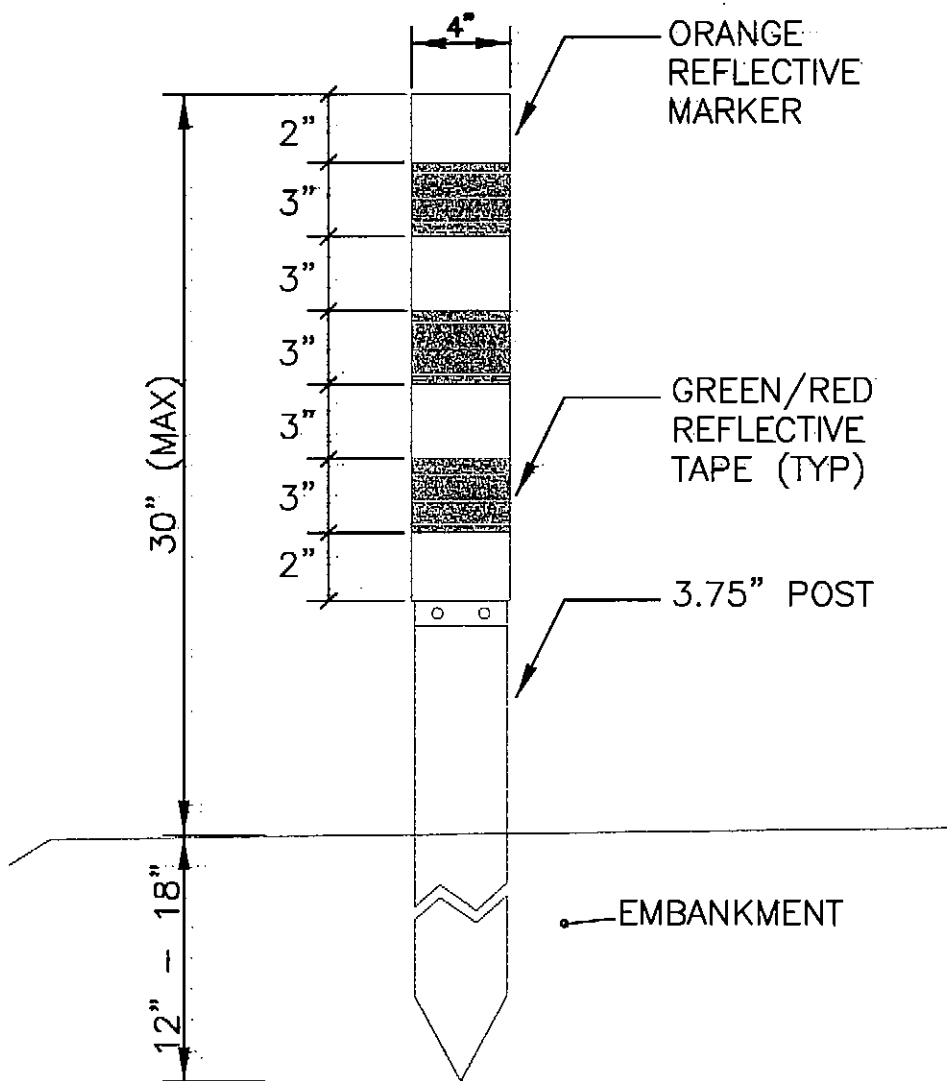
CLOSED RUNWAY MARKER DETAIL
NOT TO SCALE

NOTES:

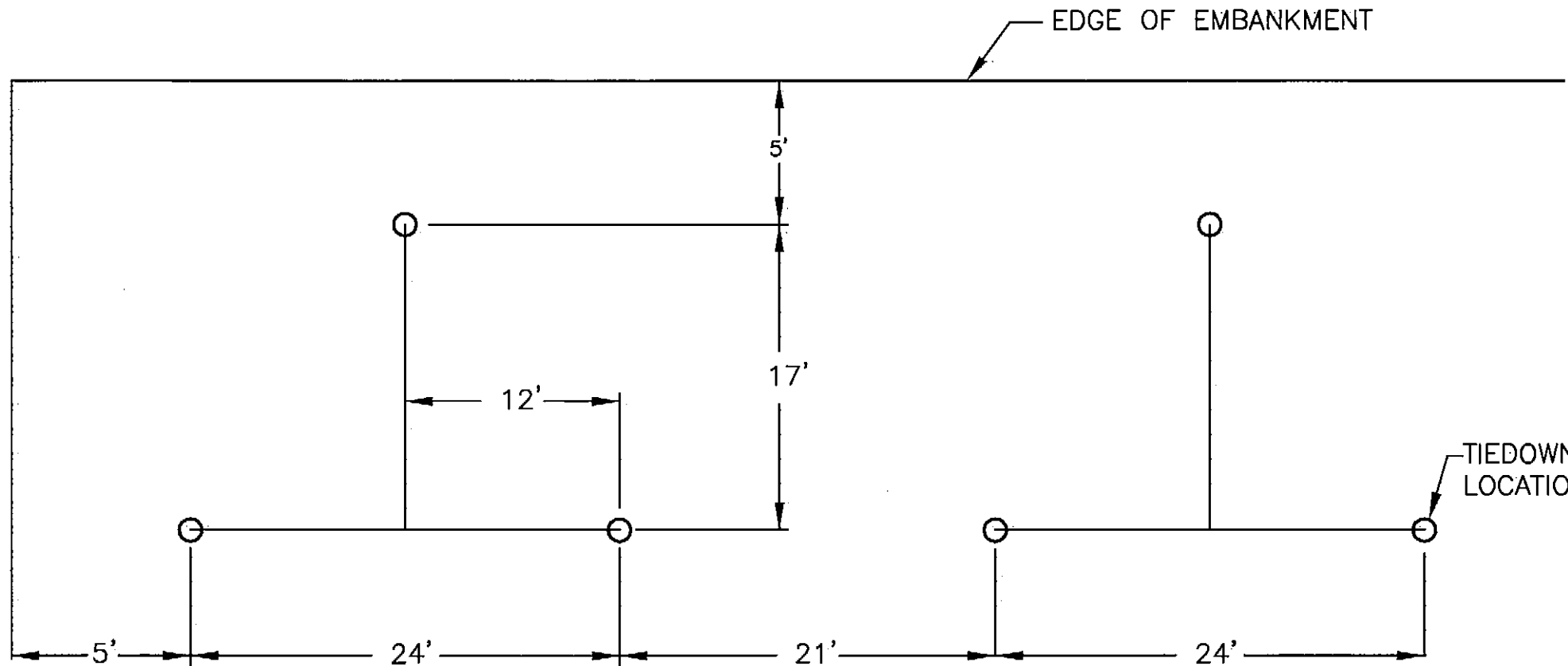
1. X'S SHALL BE DOUBLE LAYER SNOW FENCE PAINTED YELLOW PER SPEC P-671.
2. X'S SHALL BE ANCHORED SECURELY TO GROUND.

TIE DOWN NOTES:

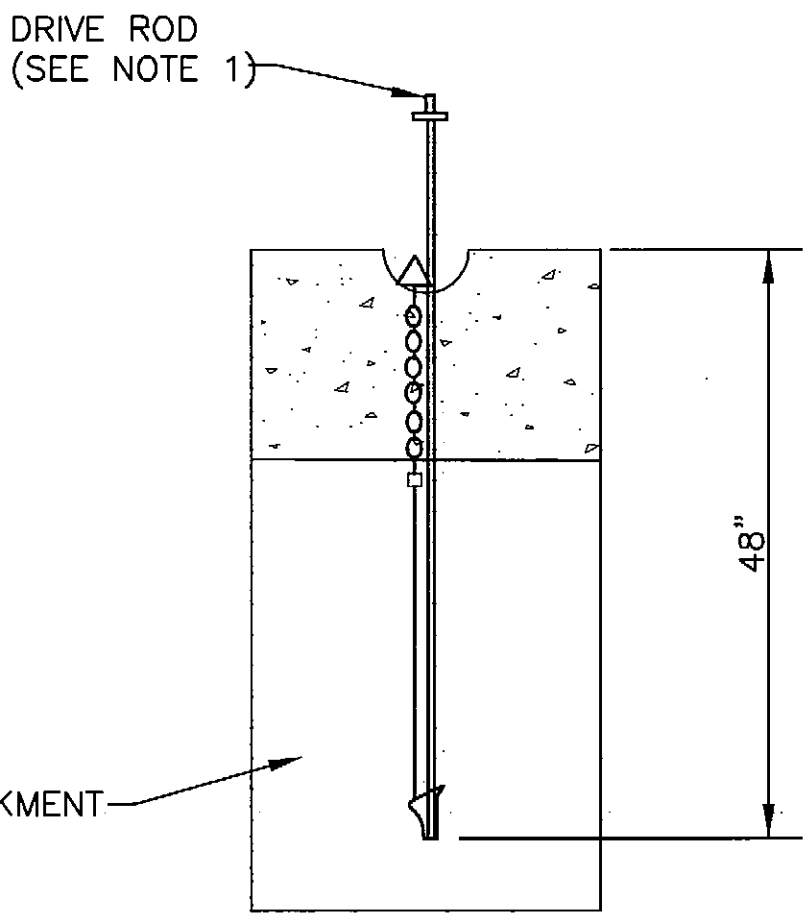
1. DRIVE ROD USED MUST BE PER MANUFACTURER'S RECOMMENDATIONS.
2. USE G-43 HIGH TEST GALVANIZED CHAIN WITH 3900 LBS. WORKING LOAD (MIN.) 5/16" PROOF COIL, 1/2" MINIMUM I.D.
3. ANCHOR-DUCKBILL MODEL 88-08 1/C OR APPROVED EQUAL.



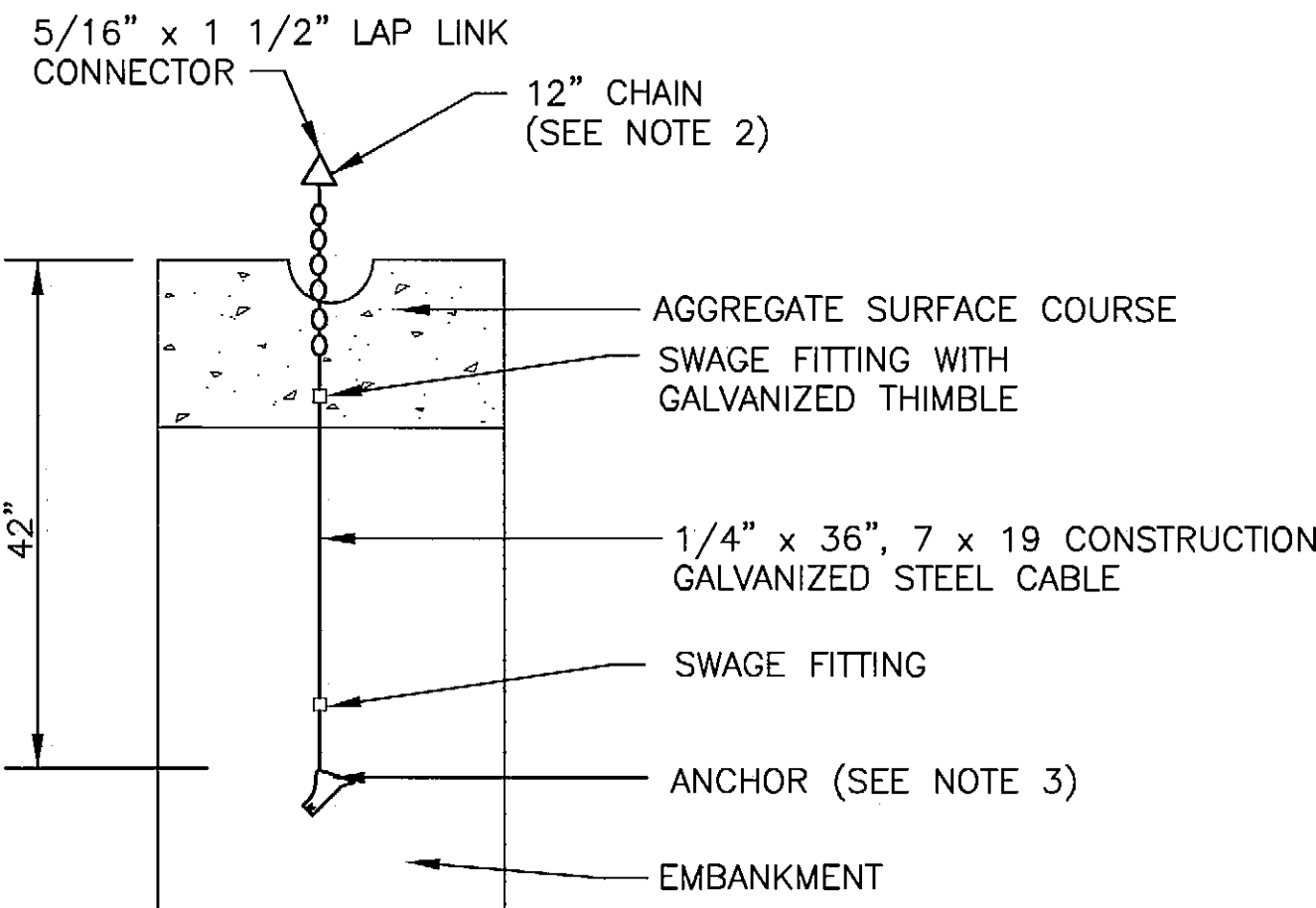
TYPE III MARKER DETAIL
NOT TO SCALE



TYPICAL TIE-DOWN ANCHOR DETAILS
NOT TO SCALE

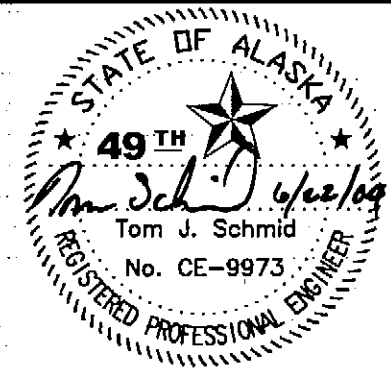


INSTALLATION



INSTALLED

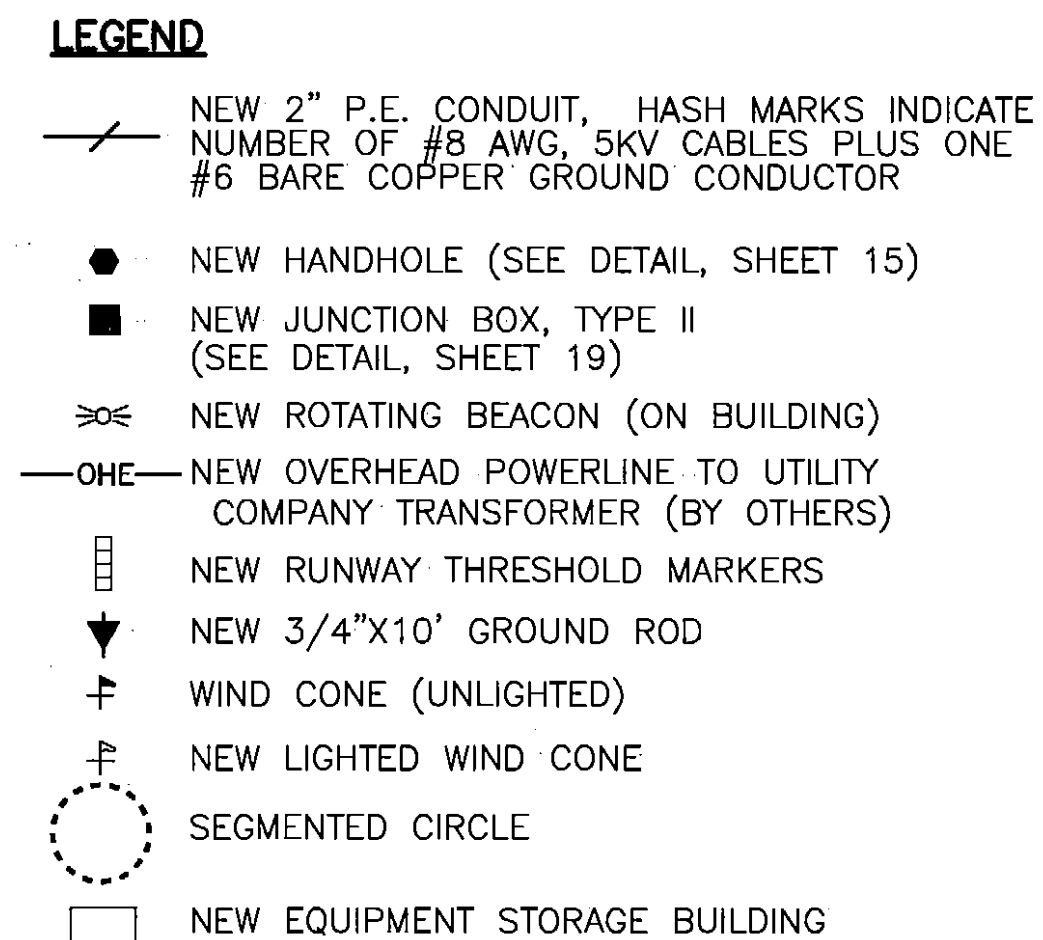
S.A.	3/4/08	AS-BUILT
BY	DATE	REVISIONS



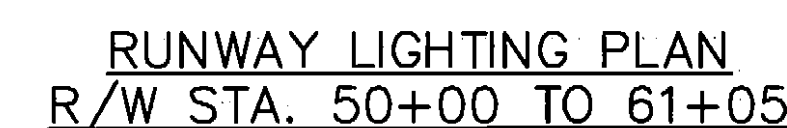
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
CENTRAL REGION

CLARKS POINT AIRPORT
CLARKS POINT, ALASKA
AIRPORT RELOCATION STAGE II
55598
AIP No. 3-02-0062-0304
THRESHOLD MARKER, TIE-DOWN ANCHOR,
& MONUMENT DETAILS

SHEET
13
OF
34



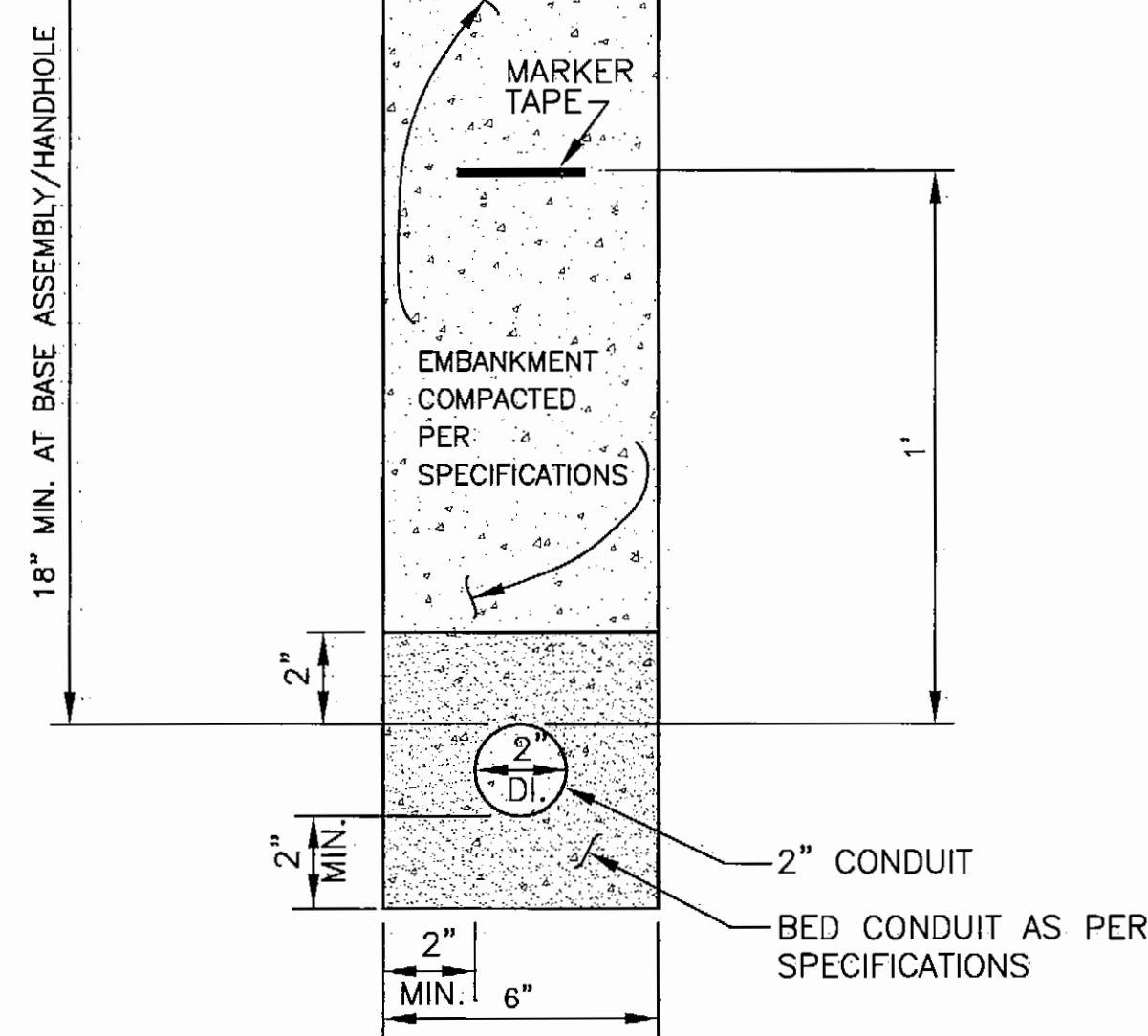
* CONES ARE PLACED OVER LIGHT FIXTURES. SEE SHEET 15.



STATE OF ALASKA
49TH
MICHAEL L. STOINOFF
No. EE-6391
6-22-00
REGISTERED PROFESSIONAL ENGINEER

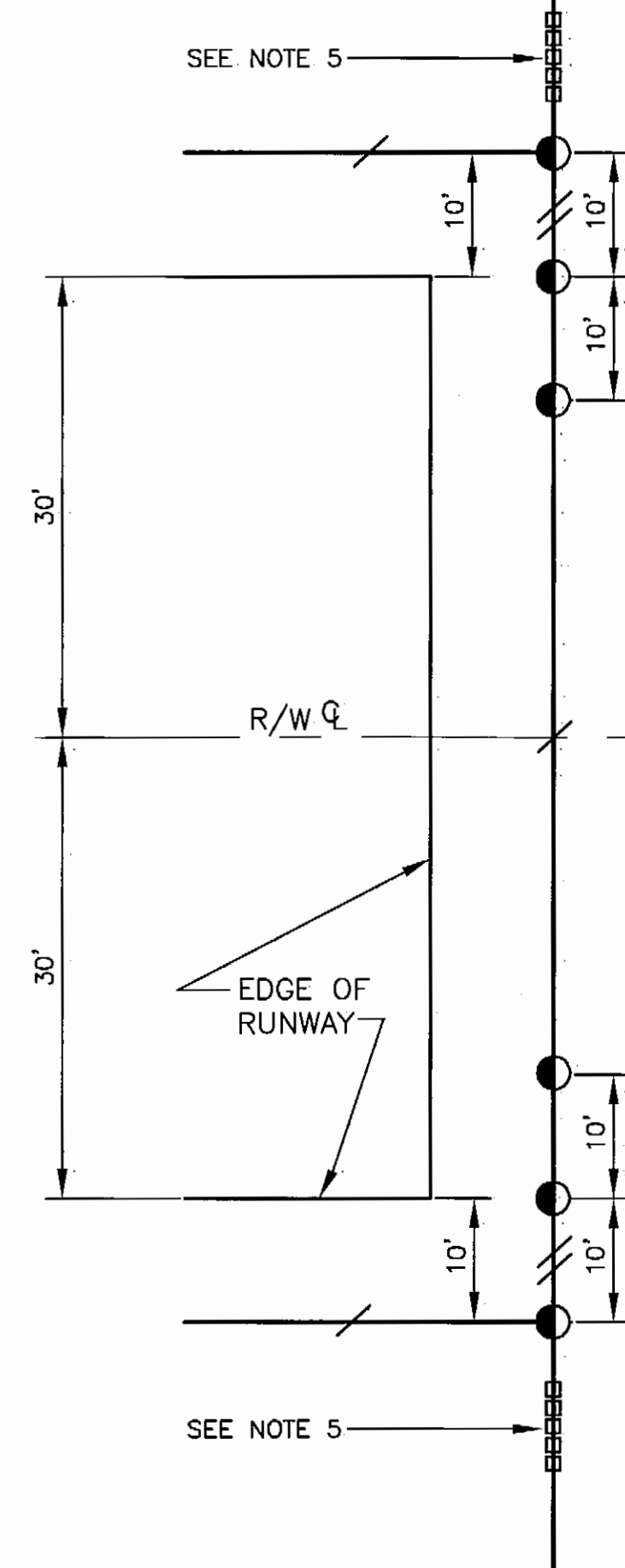
CLARKS POINT AIRPORT
CLARKS POINT, ALASKA
AIRPORT RELOCATION STAGE II
55598
AIP No. 3-02-0062-0304
RUNWAY & TAXIWAY LIGHTING PLANS

Date Plotted:	2004
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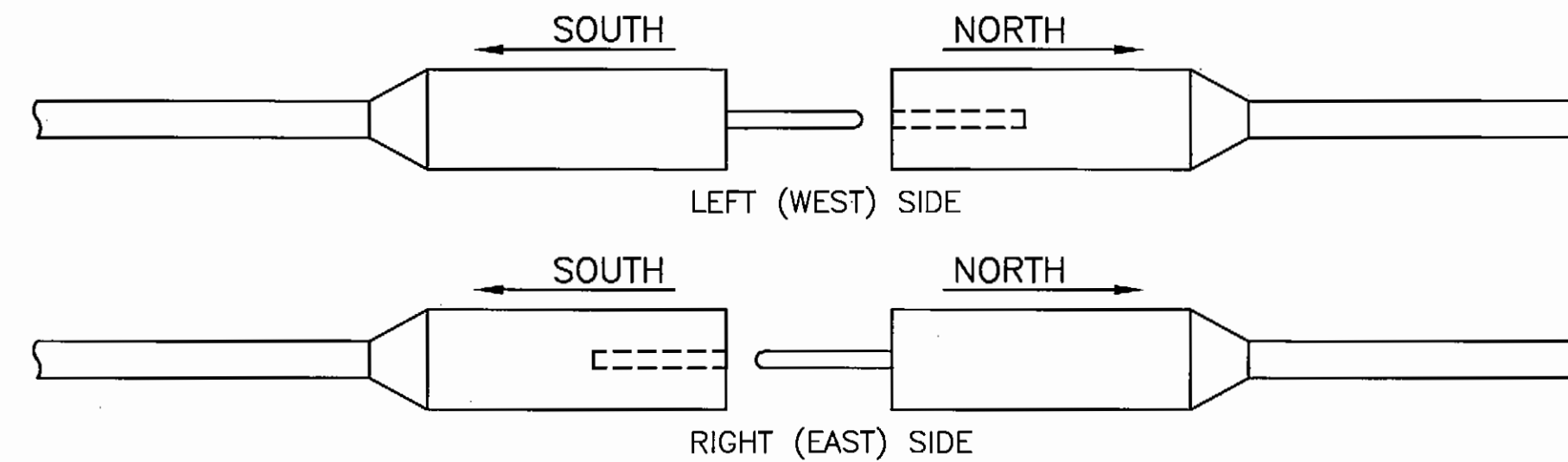
SINGLE CONDUIT TRENCH DETAIL

NOT TO SCALE

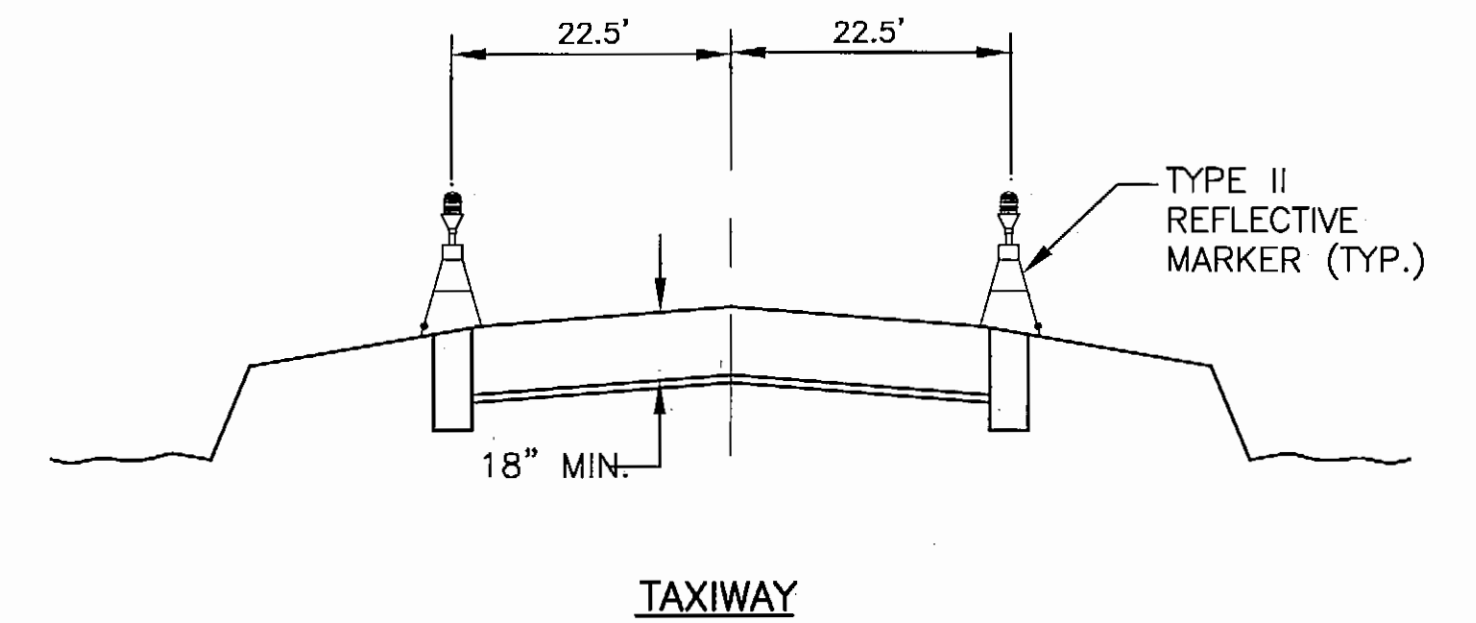
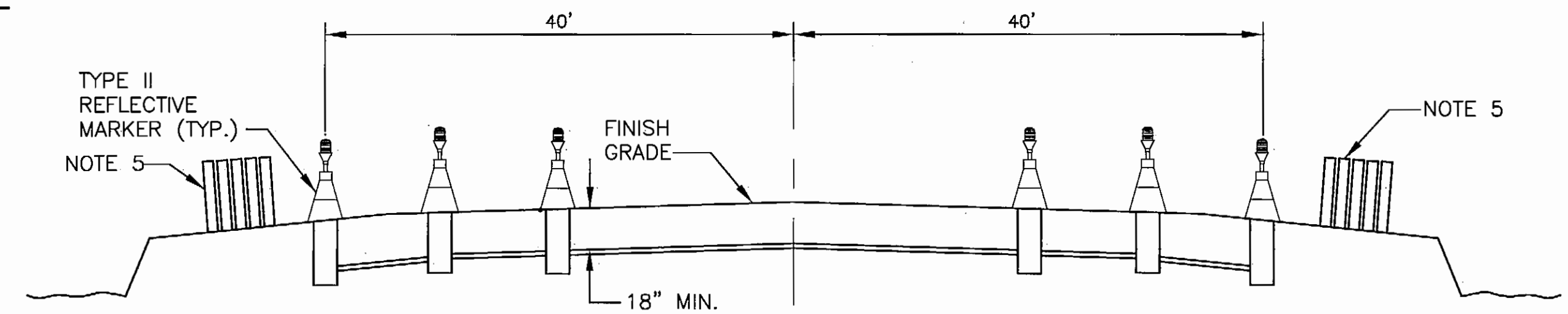


THRESHOLD LIGHTING DETAILS

NOT TO SCALE



**ORIENTATION OF L-823 CABLE
CONNECTION IN LIGHT BASE DETAIL**
NOT TO SCALE

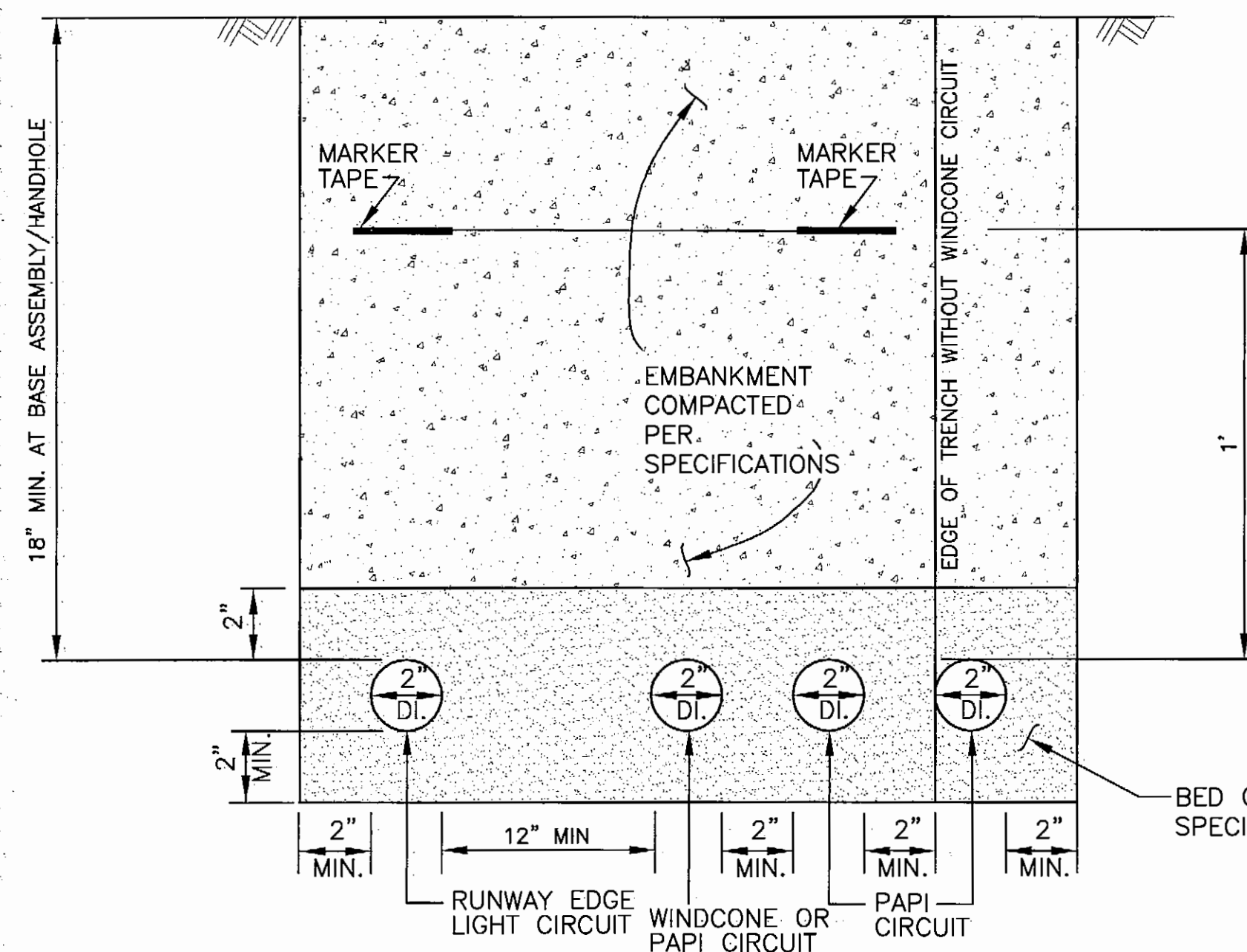
TAXIWAY

RUNWAY THRESHOLD

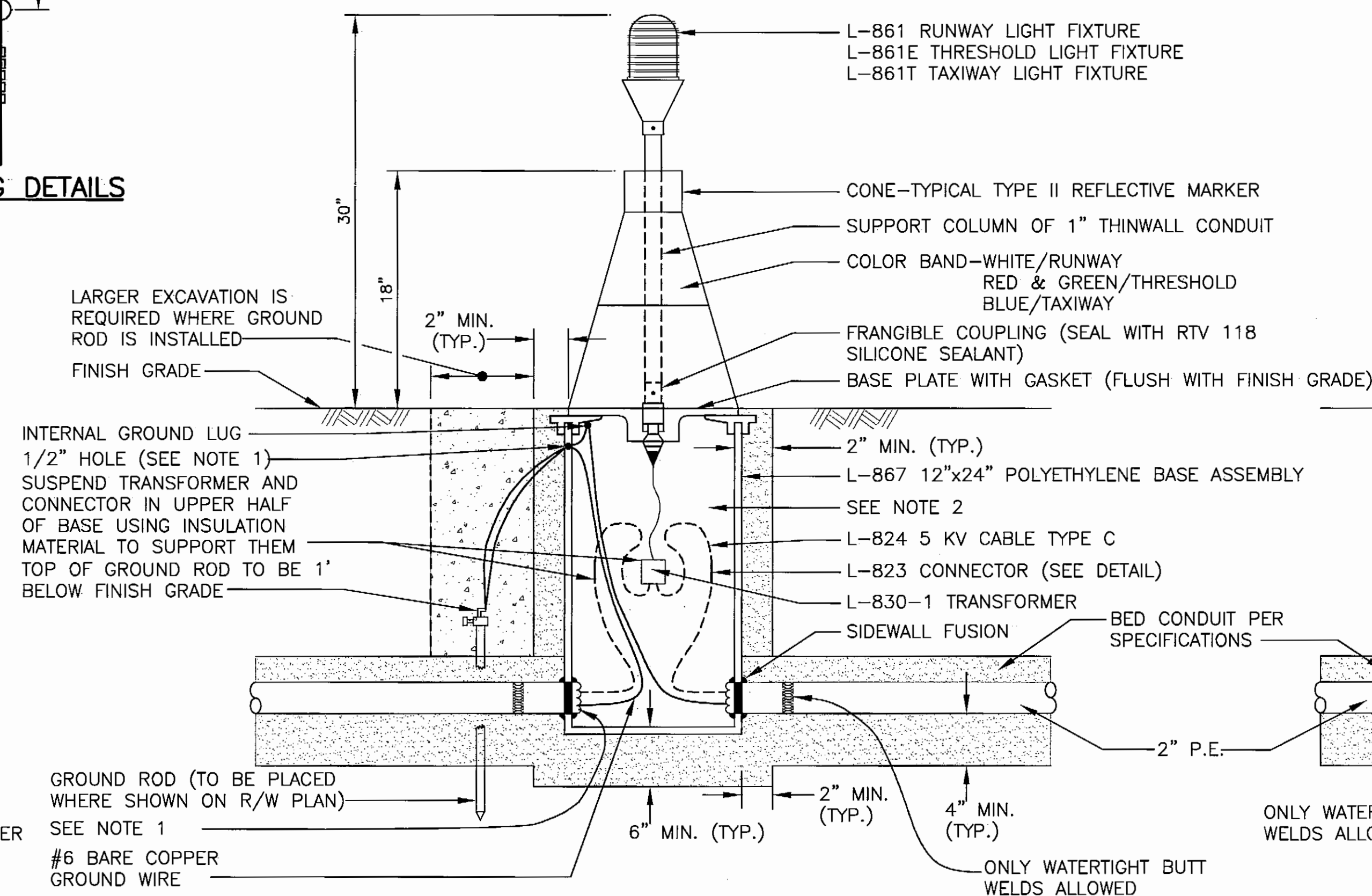
TYPICAL LIGHTING SECTION
NOT TO SCALE

NOTES:

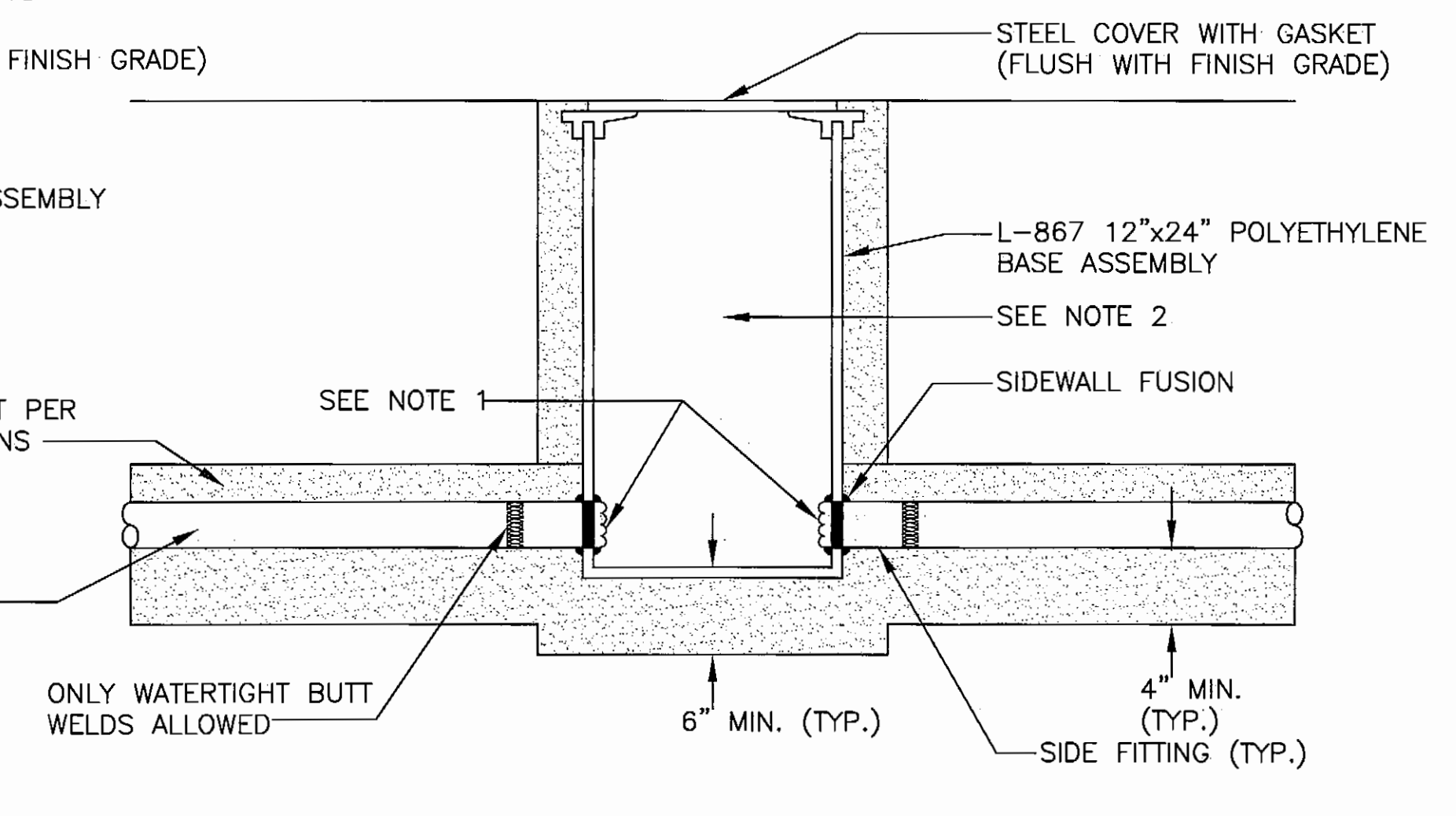
1. CONDUITS AND ANY OPENINGS SHALL BE CAULKED TO PREVENT WATER FROM ENTERING THE BASE ASSEMBLIES.
2. BASE ASSEMBLIES SHALL BE SEALED WATERTIGHT AND SHALL BE FILLED WITH GILSULATE 500 (AVAILABLE FROM ALASKA INSULATION SUPPLY, INC. ANCHORAGE, ALASKA) OR APPROVED EQUAL.
3. THE BASE ASSEMBLIES SHALL BE TYPE L-867, CLASS B, SIZE B, MADE FROM HIGH DENSITY POLYETHYLENE.
4. THE CONDUIT STUB SHALL BE SIDEWALL FUSED TO THE BASE ASSEMBLIES AT THE FACTORY OR IN THE FIELD USING SADDLE FITTING MADE FROM HIGH DENSITY POLYETHYLENE. (AVAILABLE FROM MASKED-ROBBINS, INC. ANCHORAGE, ALASKA) OR APPROVED EQUAL.
5. SEE SHEET 13 FOR TYPE III THRESHOLD MARKERS DETAILS.



MULTIPLE CONDUIT TRENCH DETAIL
NOT TO SCALE

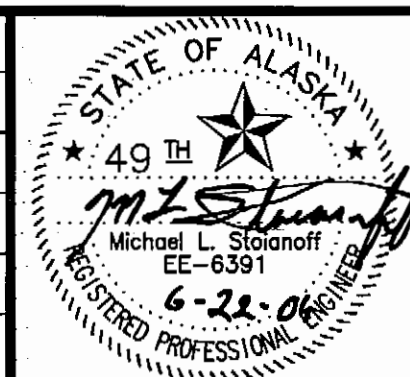


MEDIUM INTENSITY R/W-T/W LIGHT DETAIL
NOT TO SCALE



HANDHOLE DETAIL
NOT TO SCALE

S.R.	3/4/08	AS-BUILT
BY	DATE	REVISIONS



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

CLARKS POINT AIRPORT
CLARKS POINT, ALASKA
AIRPORT RELOCATION STAGE II
55598
AIP No. 3-02-0062-0304
RUNWAY, TAXIWAY & THRESHOLD
ELECTRICAL LIGHTING DETAILS

HEET 16 OF 34

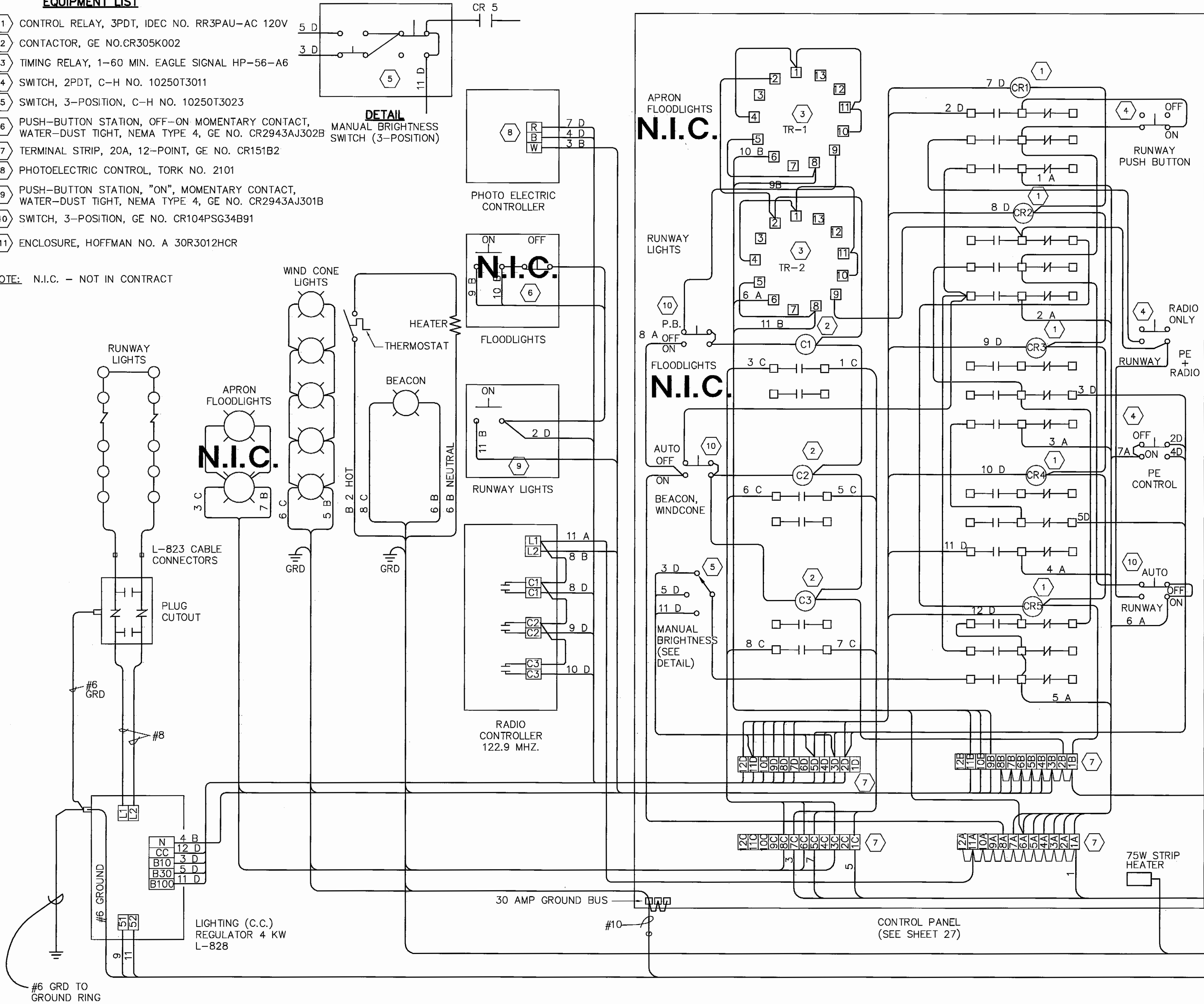
BRH
TJS
MGT
Designed By:
Checked By:
Drawn By:
Date Plotted: 2004
Plot Ratio and Layout: 1=1, layout=
File: W:\Projects\Clarks Point\Airport Relocation Phase II\55598\10_2003\Civil Design\Construction drawings\LEC wiring diagram.dwg 6/21/2004 2:57:36 PM AUT

EQUIPMENT LIST

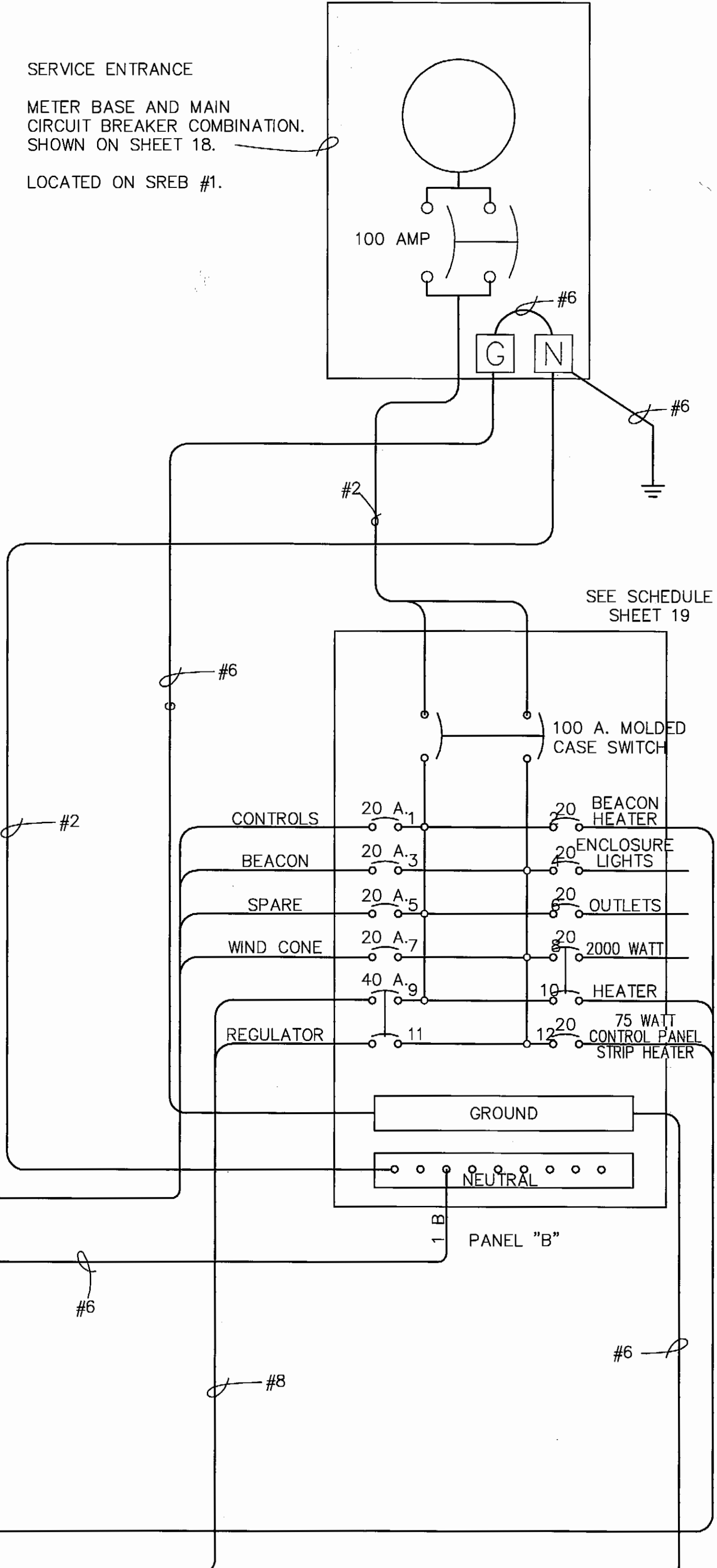
- 1 CONTROL RELAY, 3PDT, IDEC NO. RR3PAU-AC 120V
- 2 CONTACTOR, GE NO. CR305K002
- 3 TIMING RELAY, 1-60 MIN. EAGLE SIGNAL HP-56-A6
- 4 SWITCH, 2PDT, C-H NO. 10250T3011
- 5 SWITCH, 3-POSITION, C-H NO. 10250T3023
- 6 PUSH-BUTTON STATION, OFF-ON MOMENTARY CONTACT, WATER-DUST TIGHT, NEMA TYPE 4, GE NO. CR2943AJ302B
- 7 TERMINAL STRIP, 20A, 12-POINT, GE NO. CR151B2
- 8 PHOTOELECTRIC CONTROL, TORK NO. 2101
- 9 PUSH-BUTTON STATION, "ON", MOMENTARY CONTACT, WATER-DUST TIGHT, NEMA TYPE 4, GE NO. CR2943AJ301B
- 10 SWITCH, 3-POSITION, GE NO. CR104PSG34B91
- 11 ENCLOSURE, HOFFMAN NO. A 30R3012HCR

DETAIL
MANUAL BRIGHTNESS
SWITCH (3-POSITION)

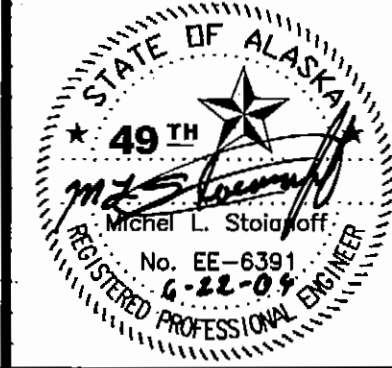
NOTE: N.I.C. - NOT IN CONTRACT



SERVICE ENTRANCE
METER BASE AND MAIN
CIRCUIT BREAKER COMBINATION.
SHOWN ON SHEET 18.
LOCATED ON SREB #1.



S.R.	3/4/08	AS-BUILT
BY	DATE	REVISIONS

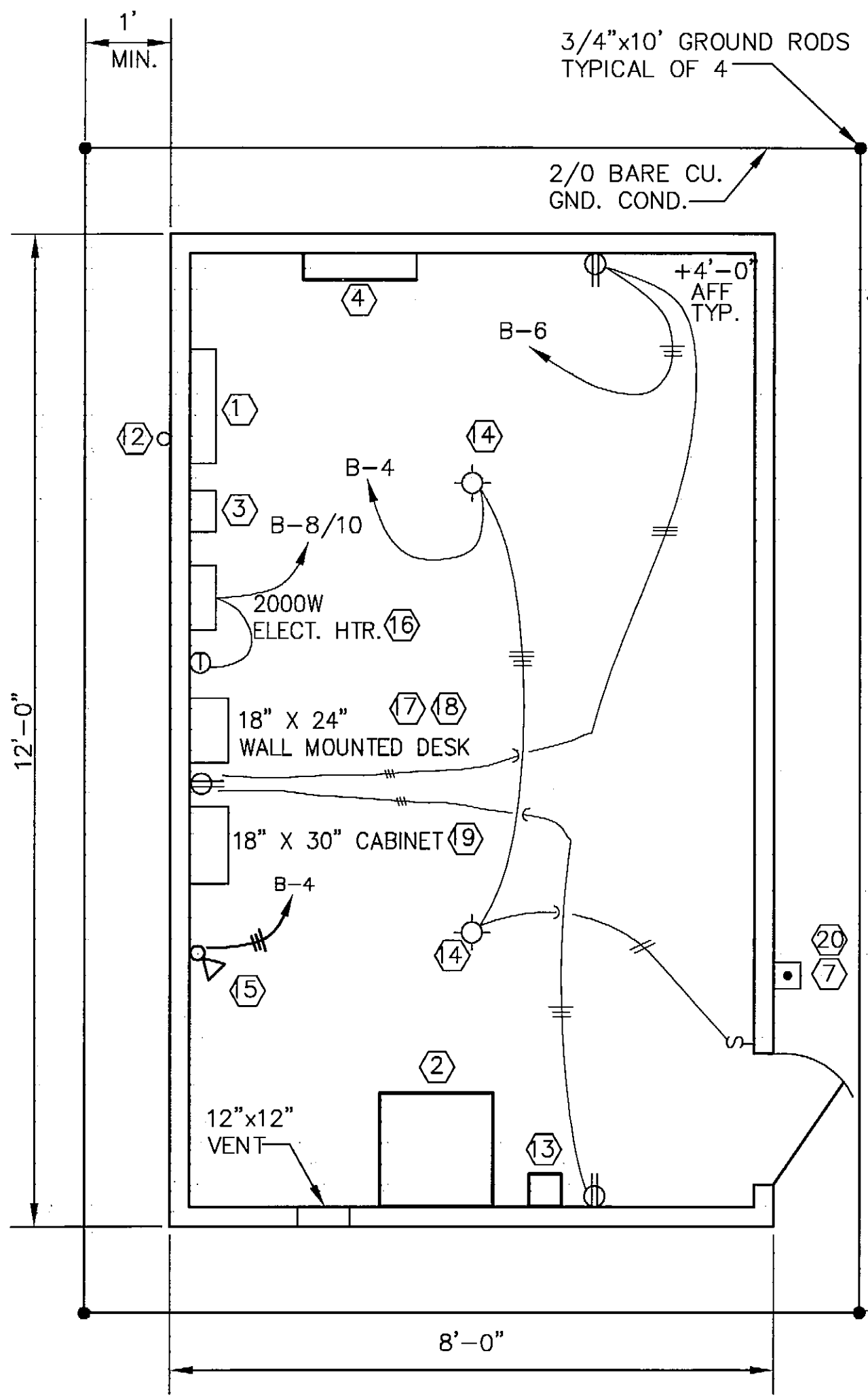


STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
CENTRAL REGION

CLARKS POINT AIRPORT
CLARKS POINT, ALASKA
AIRPORT RELOCATION STAGE II
55598
AIP No. 3-02-0062-0304
LIGHTING SYSTEM WIRING DIAGRAM

SHEET
17
OF
34

2004
Date Plotted: 1=1, layout=
Plot Ratio and Layout: W:\Projects\Clark Point\Airport Relocation Phase II\55598_02_003\Drawings\Electrical\enclosure.dwg 6/21/2004 3:19:38 PM AOT
File:
Designed By: BRH
Checked By: TJS
Drawn By: MGT



EQUIPMENT ENCLOSURE PLAN
NOT TO SCALE

EQUIPMENT LIST

- ① LIGHTING CONTROL PANEL, SEE SPECS.
- ② CONSTANT CURRENT REGULATOR, HEM-DUTY OR APPROVED EQUAL, 4 KW.
- ③ RADIO CONTROLLER-CONTROL INDUSTRIES MODEL NO. RC-ITA FREQUENCY-122.9 MHZ. OR APPROVED EQUAL
- ④ CIRCUIT BREAKER PANELBOARD, (PANEL B), SEE SPECS & SHEET 19.
- ⑤ MANUAL THROTTLE SW.-SCHEIDT NO. D7NCRB
- ⑥ EMERGENCY GENERATOR RECEPTACLE-CROWLEY CHINDS NO. APCA 10426 WITH MATCHING PLUG NO. APJ10487 OR APPROVED EQUAL.
- ⑦ PUSH BUTTON STATION-GENERAL ELECTRIC NO. CR2943AJ201B OR APPROVED EQUAL.
- ⑧ CIRCUIT BREAKER PANEL, (PANEL A), SEE SPECS.
- ⑨ KILOWATT HOUR METER-FORM-2S, CLASS 200 TO BE PROVIDED BY CONTRACTOR.
- ⑩ METER BASE-MAIN CIRCUIT BREAKER COMBINATION-TO BE COMPATIBLE WITH METER.
- ⑪ RADIO CONTROL ANTENNA- R.A. MILLER INDUSTRIES, INC., MODEL AV-1. MOUNT ON SREB #1.
- ⑫ PHOTOELECTRIC CONTROL-TORK NO. 2101 OR APPROVED EQUAL
- ⑬ PLUG CUTOUT-5 KV-ADB #S1 IN 14"x12"x8" NEMA 1 BOX WITH HINGED COVER, OR APPROVED EQUAL.
- ⑭ KENALL MODEL 3826-PFC WITH TWO 28 WATT COMPACT FLUORESCENT LAMPS. FURNISH TWO SPARE LAMPS.
- ⑮ EMERGENCY LIGHT WITH NI-CAD BATTERIES, 90 MIN. RATING

NOTE:
ALL WALL CONDUIT PENETRATIONS SHALL BE SEALED WITH SILICONE SEALANT.

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

WINDCONE LIGHTS:

WINDCONE LIGHTS ON WHEN RUNWAY LIGHTS
ARE ON.

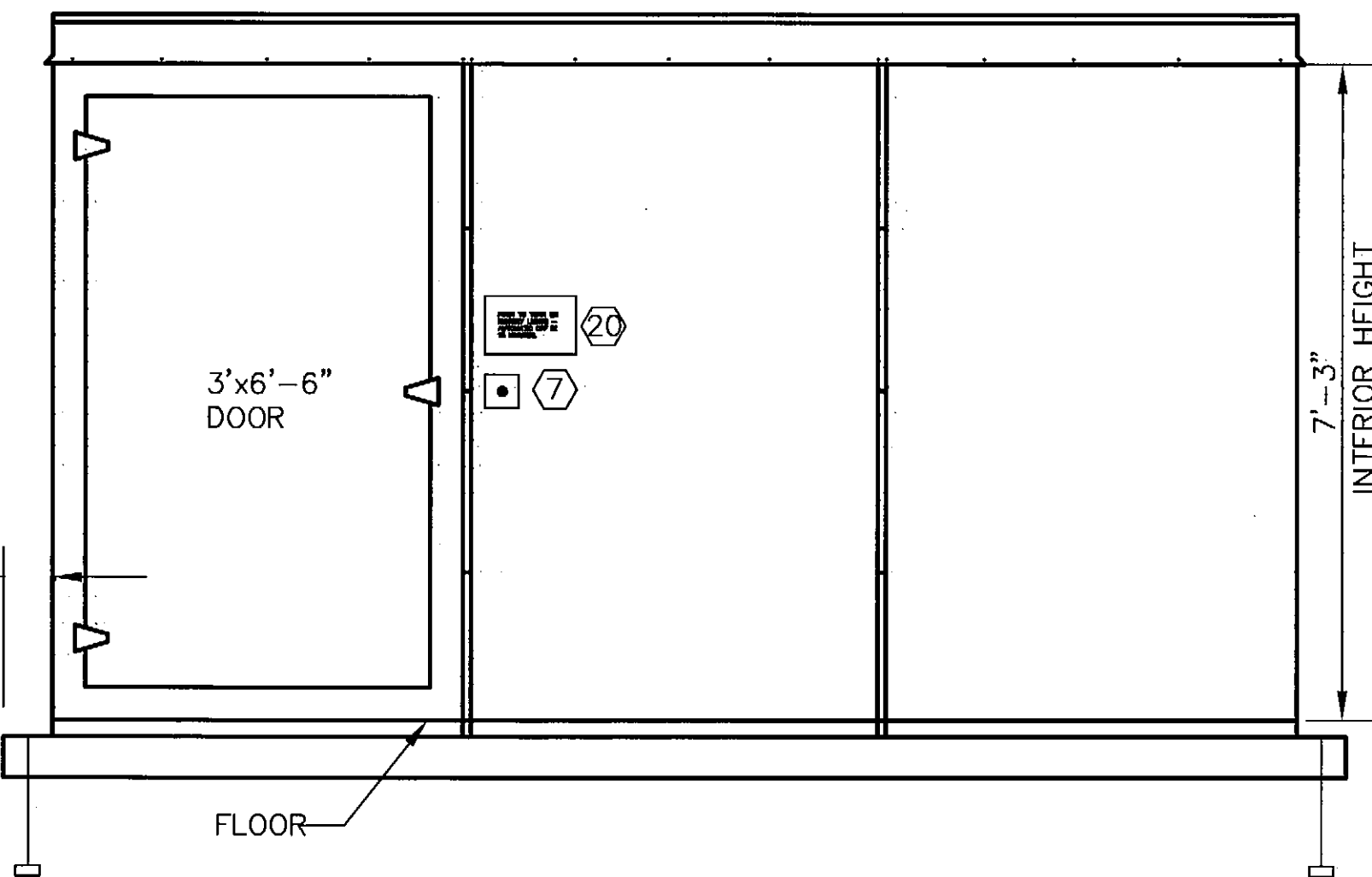
BEACON:

OFF-BEACON OFF
ON-BEACON ON
AUTO-BEACON ON WHEN PHOTOELECTRIC CONTROLLER
TURNS ON.

EXTERIOR SWITCH:

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

- ⑥ 2000-WATT 240-VOLT WALL MOUNTED FAN-FORCED
ELECTRIC HEATER WITH WALL THERMOSTAT.
- ⑦ METAL WALL DESK MCMaster-CARR CATALOG NO. 4796T14
20.5"x16.25"x2.75" SLOPE TOP WITH PIGEON HOLE SHELVES,
OR NO. 4808T18 34.25"x28"x13" DESK WITH LOCKING DRAWER
MOUNT DESK TOP AT 43" AFF, (ELBOW HEIGHT WHEN STANDING)
- ⑧ METAL CHAIR (ADJUSTABLE LEGS) WITH BACK SUPPORT FOR DESK:
MCMaster-CARR MODEL 4813T1.
- ⑨ METAL WALL CABINET (LOCKABLE) MCMaster-CARR MODEL 30"x12"x30"
WITH TWO SHELVES.
- ⑩ MOUNT WITH STAINLESS STEEL SCREWS A 1/8" THICK ALUMINUM SIGN
WITH WHITE REFLECTIVE BACKGROUND AND 1/2" MINIMUM BLACK OR
BLUE VINYL LETTERING TO READ: PUSH TO TURN ON RUNWAY LIGHTS
AUTOMATIC OFF IN 15 MINUTES. MOUNT WITH S/S SCREWS OR COLD
WEATHER (-40 DEGREES F) ADHESIVE.



ENCLOSURE SIDE ELEVATION
NOT TO SCALE

TO UTILITY TRANSFORMER
(CONNECT TO SECONDARY TAP)

2" RSC WITH 3# 4/0 CU
XHHW-2 CONDUCTORS
AND WEATHERHEAD

2" RSC, 3 No. 2 CU.
1 #6 GROUND

3/4" RSC, 8 No. 12
XHHW

3/4" RSC, 8 No. 12
XHHW

3/4" RSC, 8 No. 12
XHHW

3/4" RSC, 8 No. 12
XHHW

3/4" RSC, 8 No. 12
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3/4" RSC, 8 No. 12
XHHW

3/4" RSC, 8 No. 12
XHHW

PE CONTROL TO BE MOUNTED +6"
ABOVE BEACON PLATFORM LOCATED
ON SREB ORIENTED NORTH SET AT 5
FC TURN ON

EXT. OF ENCL. BUILDING

1/2" RSC,
3 No. 12
XHHW

3/4" RSC,
5 No. 12
XHHW

3/4" RSC,
8 No. 12
XHHW

3/4" RSC,
8 No. 12
XHHW

3/4" RSC,
8 No. 12
XHHW

3/4" RSC,
8 No. 12
XHHW

3/4" RSC,
8 No. 12
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3/4" RSC,
8 No. 12
XHHW

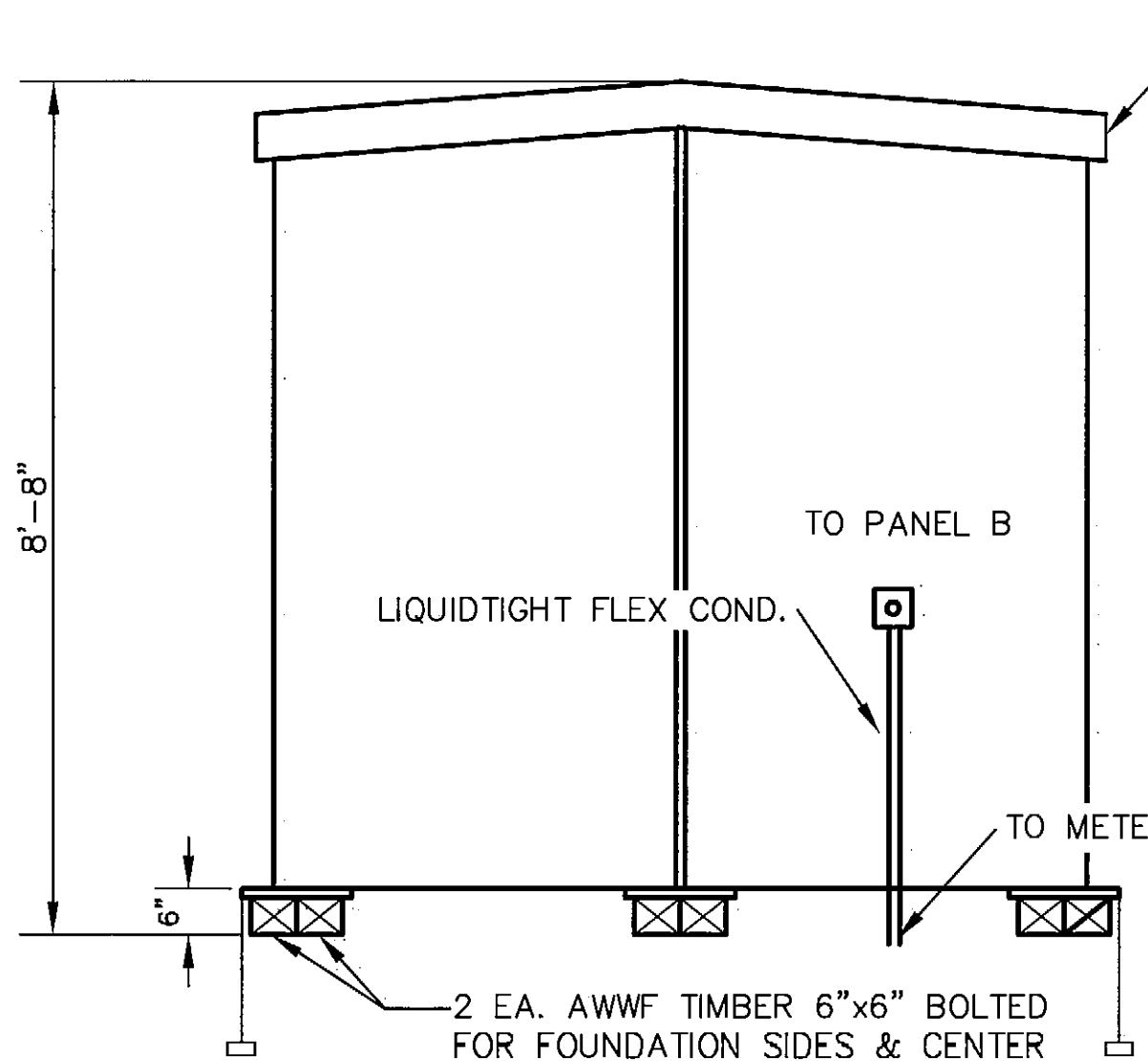
3/4" RSC,
8 No. 12
XHHW

3/4" RSC,
8 No. 12
XHHW

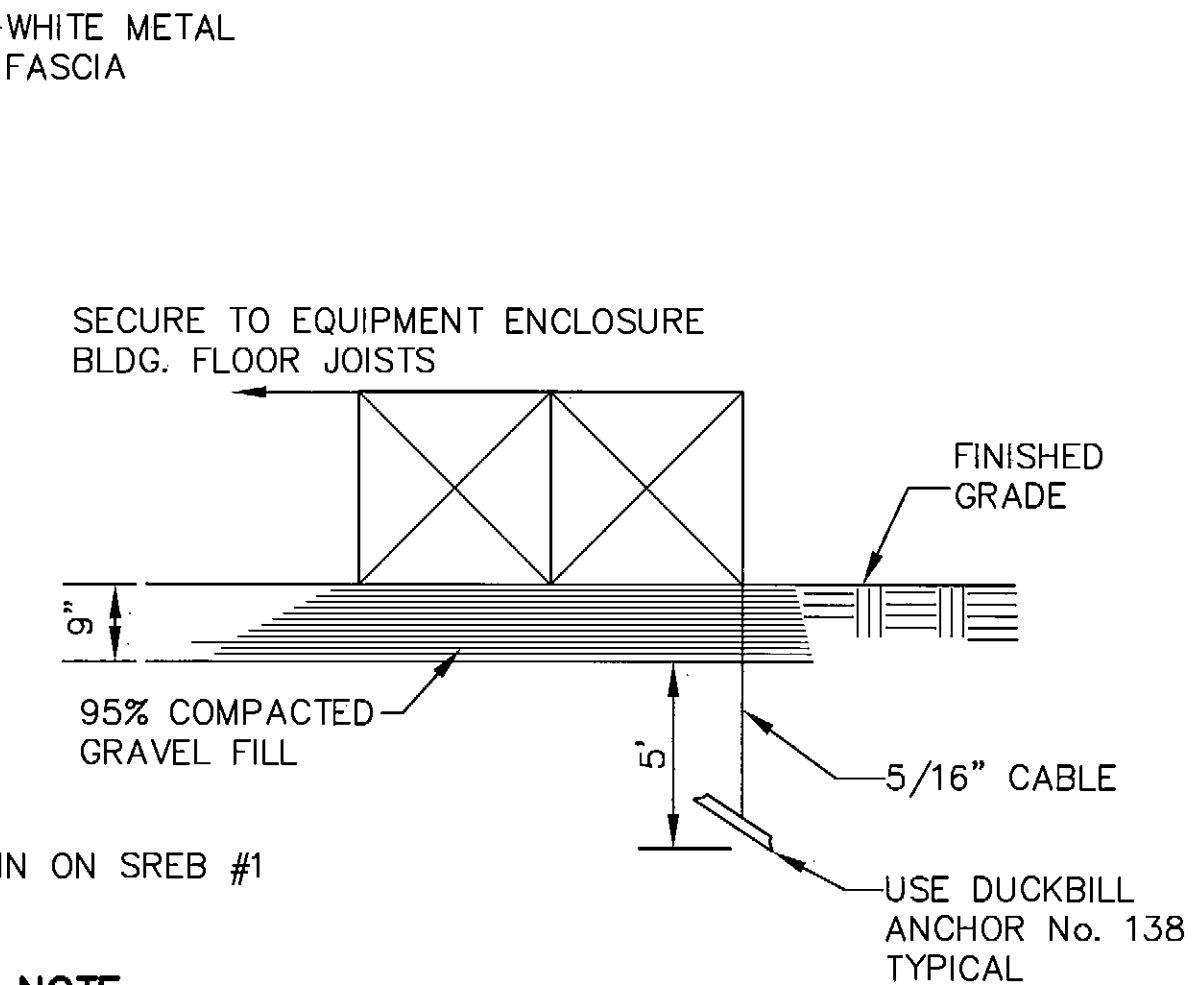
3/4" RSC,
8 No. 12
XHHW

ONE LINE DIAGRAM
NOT TO SCALE

TOTAL CONNECTED LOAD: 50 KVA, 208 AMPS @ 120/240 VOLTS
TOTAL DEMAND LOAD: 26 KVA, 108 AMPS @ 120/240 VOLTS
MINIMUM ELECTRICAL: 200 AMPS @ 120/240 VOLTS

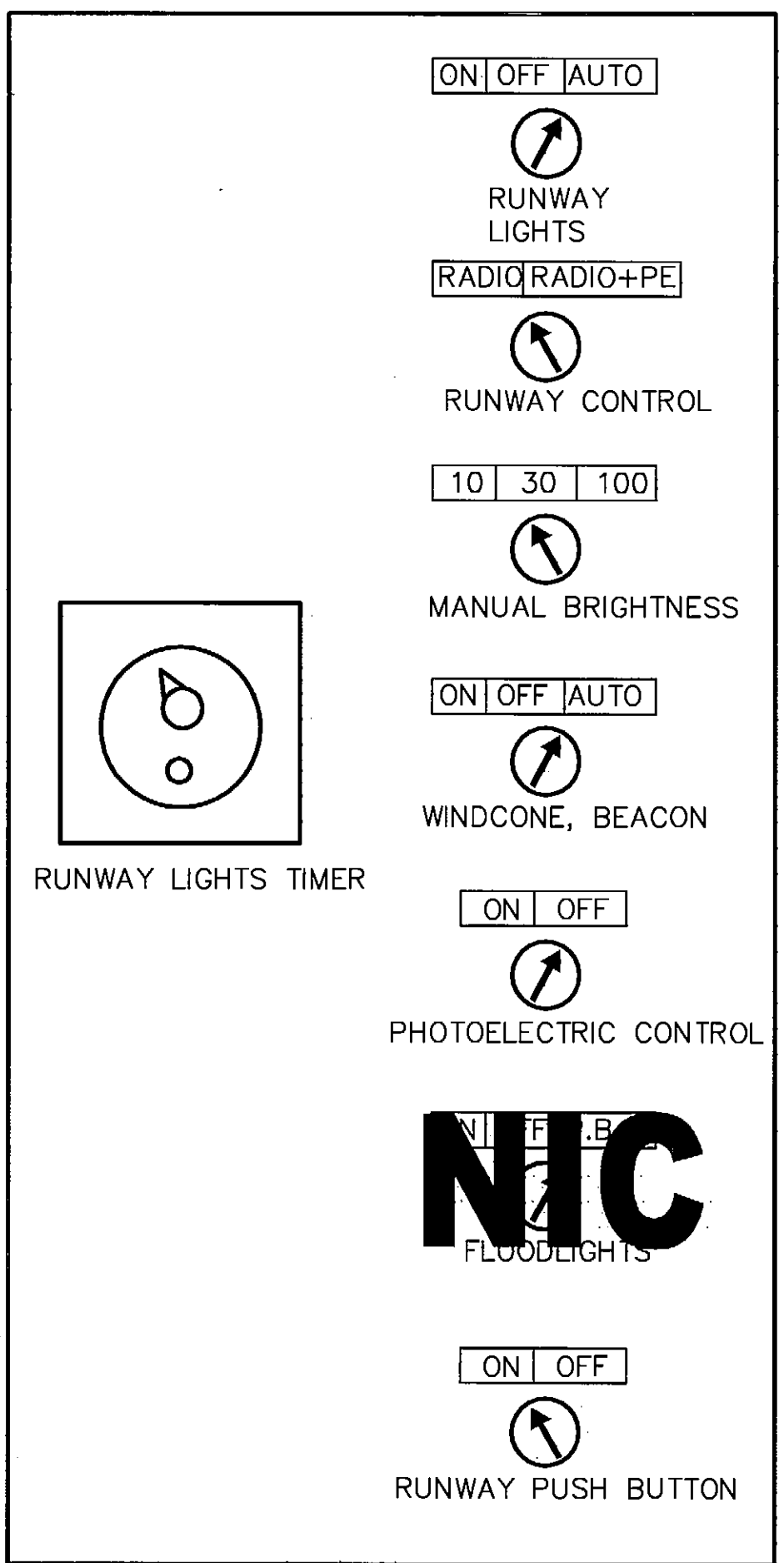


SECTION THRU EQUIP. ENCL. BLDG.
NOT TO SCALE



NOTE:
INSTALL A TOTAL OF FOUR ANCHOR,
ONE AT EACH CORNER

EQUIP. ENCL. BLDG. TIE DOWN DETAIL
NOT TO SCALE



CONTROL PANEL
NOT TO SCALE

BY	DATE	REVISIONS
S.R.	3/4/08	AS-BUILT



STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
CENTRAL REGION

CLARKS POINT AIRPORT
CLARKS POINT, ALASKA
AIRPORT RELOCATION STAGE II
55598
AIP No. 3-02-0062-0304
ELECTRICAL ENCLOSURE PLAN & DETAILS

SHEET
18
OF
34

2004
1=1 layout=

BRH
TJS
MST

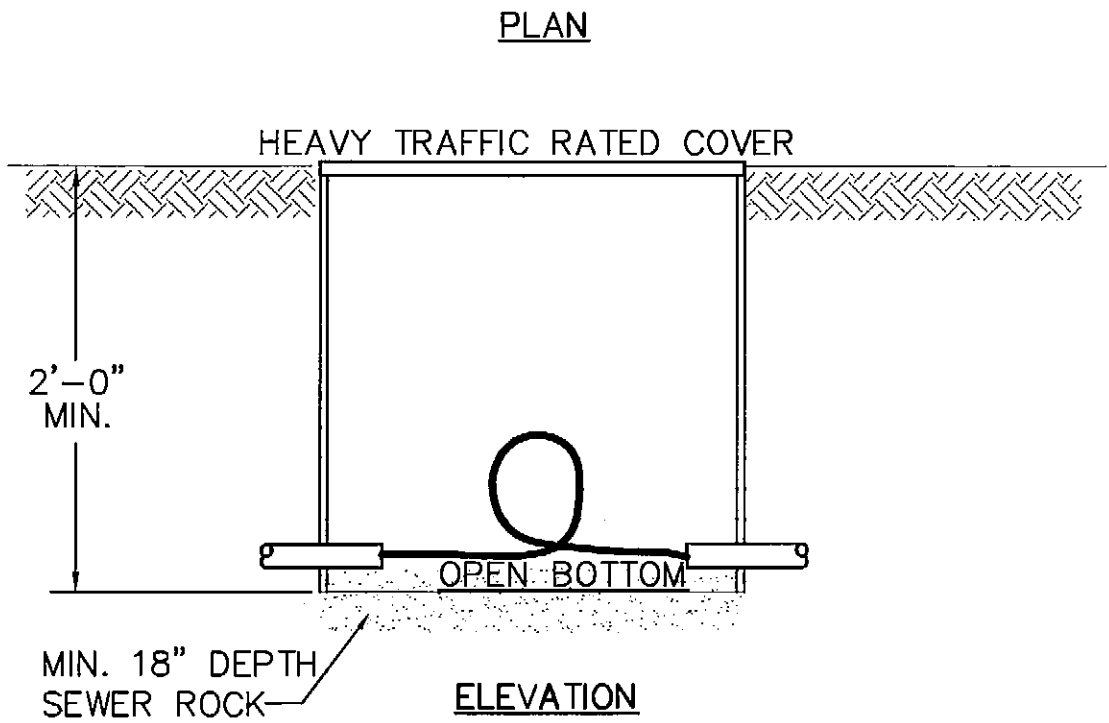
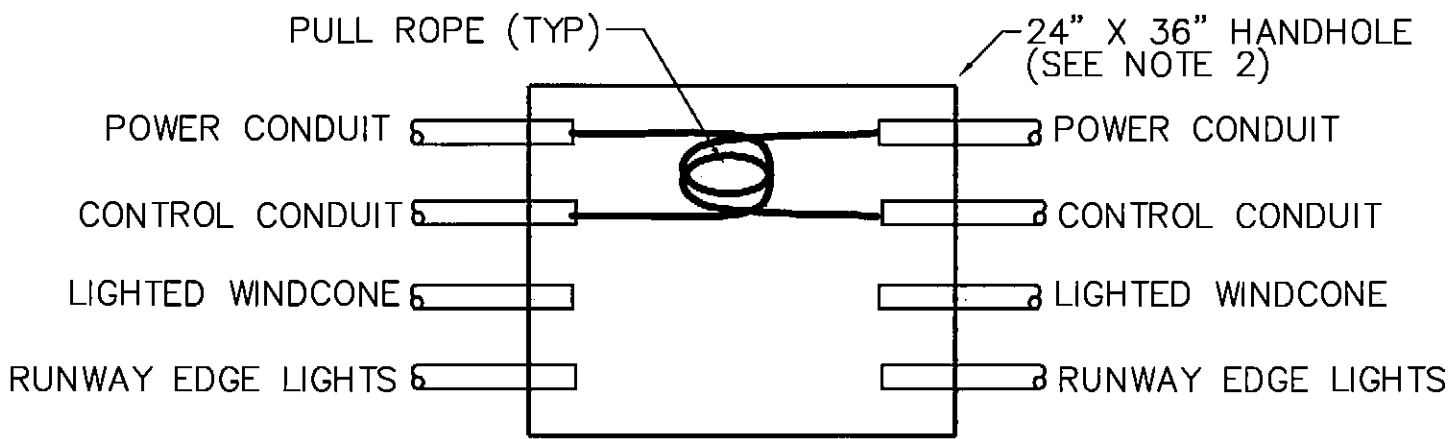
Designed By:
Checked By:
Drawn By:

2004
1=1 layout=

BRH
TJS
MST

Designed By:
Checked By:
Drawn By:

ELECTRIC PANEL SCHEDULE										
PROJECT NAME: CLARKS POINT AIRPORT RELOCATION STAGE II				PROJECT NO: 55598				PANEL DESIGNATION: B		
120/240 VOLTS, 1 PHASE, 3 WIRE		INTERRUPTING RATING: 10,000 AIC					CALCULATED PH/PH FAULT: < 10,000 AMPS SYM			
THIS PANEL SERVED FROM: SERVICE DISCONNECT							ISOLATED NEUTRAL (X) YES () NO			
MAIN LUGS ONLY 100 AMPS – SURFACE MOUNT PANEL							ISOLATED GROUND (X) YES () NO			
				LINE		LINE				
LOAD	KVA	AMP	CKT	A		B	CKT	AMP	KVA	LOAD
LIGHTING CONTROL PANEL	0.60	20/1	1	1.00			2	20/1	0.40	ROTATING BEACON HEATER
ROTATING BEACON LIGHTS & MOTOR	0.35	20/1	3			0.44	4	20/1	0.09	ENCLOSURE LIGHTS
SPARE	0.00	20/1	5	0.36			6	20/1	0.54	CONVENIENCE OUTLETS
LIGHTED WIND CONE	0.60	20/1	7			1.60	8	20/	1.00	ELECTRIC HEATER
RUNWAY & TAXIWAY LIGHTING REGULATOR	2.00	40/	9	3.00			10	2	1.00	ELECTRIC HEATER
RUNWAY & TAXIWAY LIGHTING REGULATOR	2.00	2	11			2.08	12	20/1	0.08	LIGHTING CONTROL PANEL 75–WATT HEATER
SPARE		20/1	13				14	20/1		SPARE
SPARE			15				16			SPARE
SPARE			17				18			SPARE
SPARE			19			0.00	20			SPARE
TOTALS – KVA	5.55			4.54		4.12			3.11	
AMPS – LINE TOTALS				37.83		34.33				
TOTAL CONNECTED LOAD – KVA	8.66									
TOTAL CONNECTED LOAD – AMPS	36.08									
TOTAL DEMAND – KVA	8.66									
TOTAL DEMAND – AMPS	36.08									
CONTINUOUS LOAD – KVA	8.11									
DEMAND + 25% CONTINUOUS – KVA	10.69									
DEMAND + 25% CONTINUOUS – AMPS	44.54									



1
19

TYPE II JUNCTION BOX DETAIL

NOT TO SCALE

- NOTES:
1. ALL P.E. DUCTS FOR FAA PAPI AND REIL SHALL HAVE A PULL ROPE PROVIDED AS SUPPLIED BY MANUFACTURER.
 2. EACH TYPE II JUNCTION BOX SHALL BE CONSTRUCTED OF POLYMER CONCRETE, REINFORCED WITH HEAVY-WEAVE FIBERGLASS, AND A MINIMUM SIZE OF 24 X 36 X 24 INCHES DEEP. THE ENCLOSURE AND COVER SHALL BE GREEN IN COLOR. COVERS SHALL BE HEAVY DUTY TRAFFIC RATED WITH A MINIMUM RATING OF 15,000 POUNDS OVER A 10" X 10" AREA. THE ENCLOSURE SHALL BE DESIGNED AND TESTED TO TEMPERATURES OF MINUS 50°F. THE COVER SHALL BE NON-SLIP AND MARKED WITH THE WORDS "FAA-LIGHTING".

S.R.	3/4/08	AS-BUILT
BY	DATE	REVISIONS

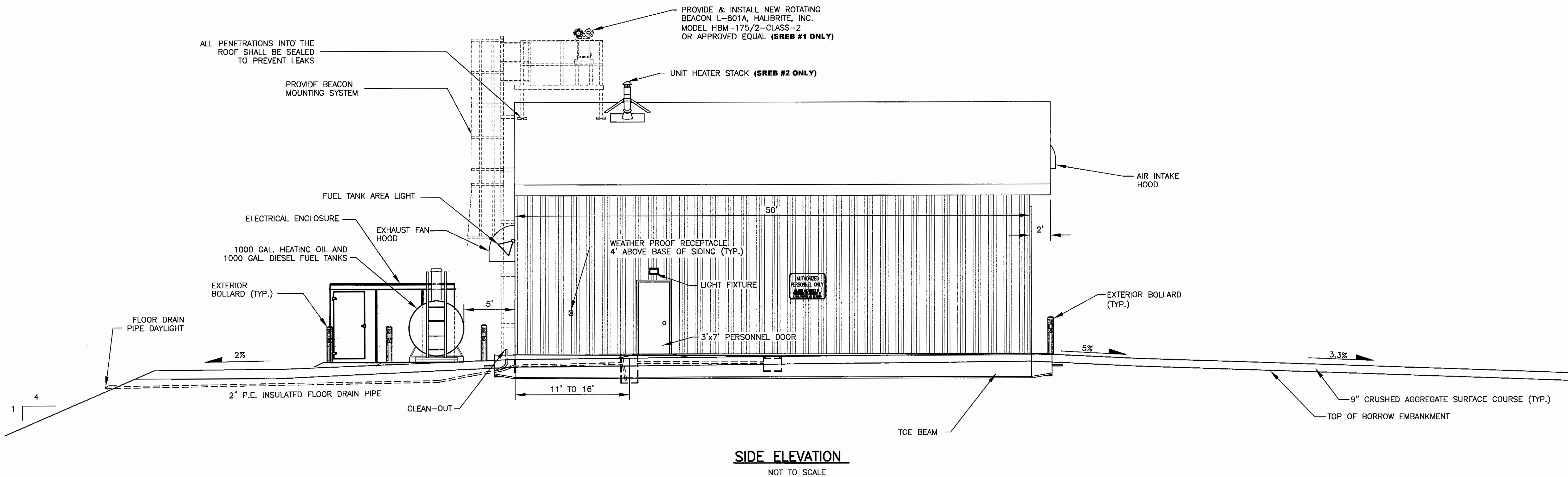
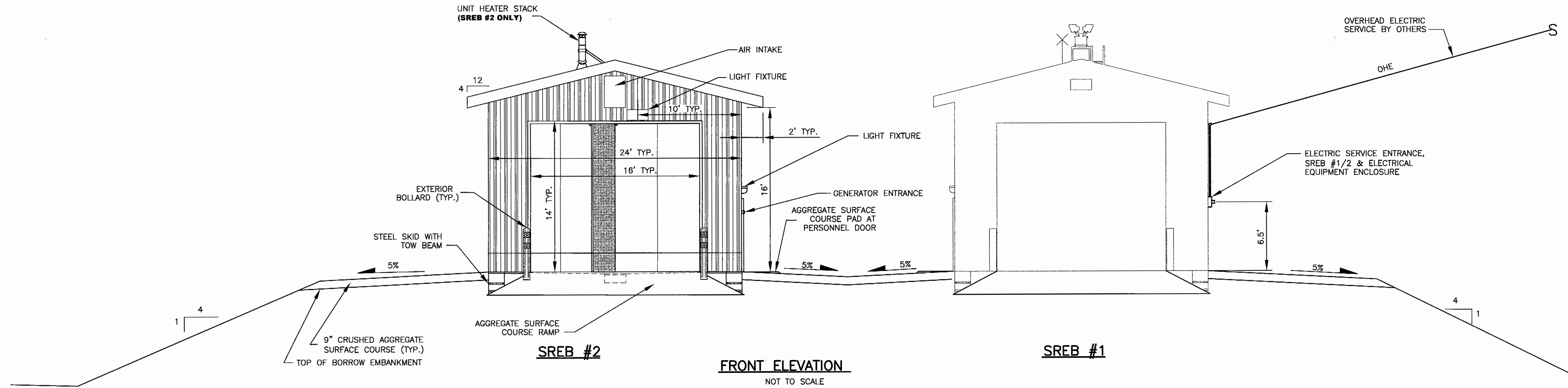


STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
CENTRAL REGION

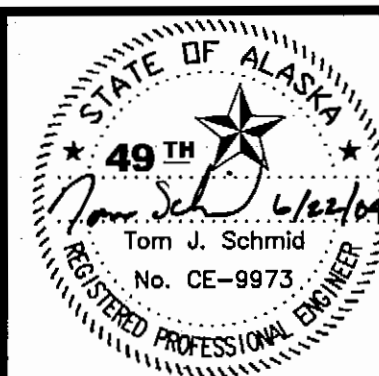
CLARKS POINT AIRPORT
CLARKS POINT, ALASKA
AIRPORT RELOCATION STAGE II
55598
AIP No. 3-02-0062-0304
ELECTRICAL ENCLOSURE PANEL SCHEDULES
& LIGHTING DETAILS

SHEET
19
OF
34

BRH
 TJS
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 Designed By:
 Checked By:
 Drawn By:
 Date Plotted:
 Plot Ratio and Layout:
 File:
 1=1
 WA Project/Clark Point Airport Relocation Phase II 55598 10_2003 Civil Design/Construction drawings/SREB/2X50_Rev.dwg 6/19/2004 4:24:38 PM AUT



BY	DATE	REVISIONS
S.R.	3/4/08	AS-BUILT.

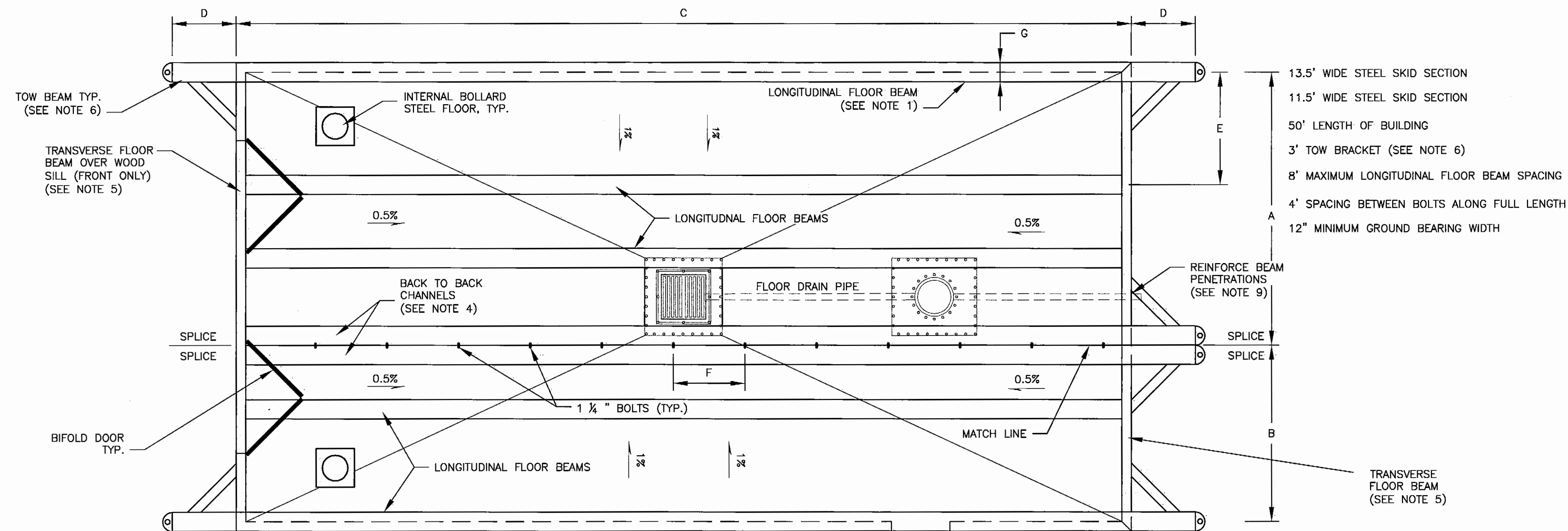


STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 AND PUBLIC FACILITIES
 CENTRAL REGION

CLARKS POINT AIRPORT
 CLARKS POINT, ALASKA
 AIRPORT RELOCATION STAGE II
 55598
 AIP No. 3-02-0062-0304
 SINGLE BAY SNOW REMOVAL EQUIPMENT BUILDING
 ELEVATIONS

SHEET
 20
 OF
 34

Date Plotted:	2004
Plot Ratio and Layout:	1=1, layout=
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Drawn By:	MGT

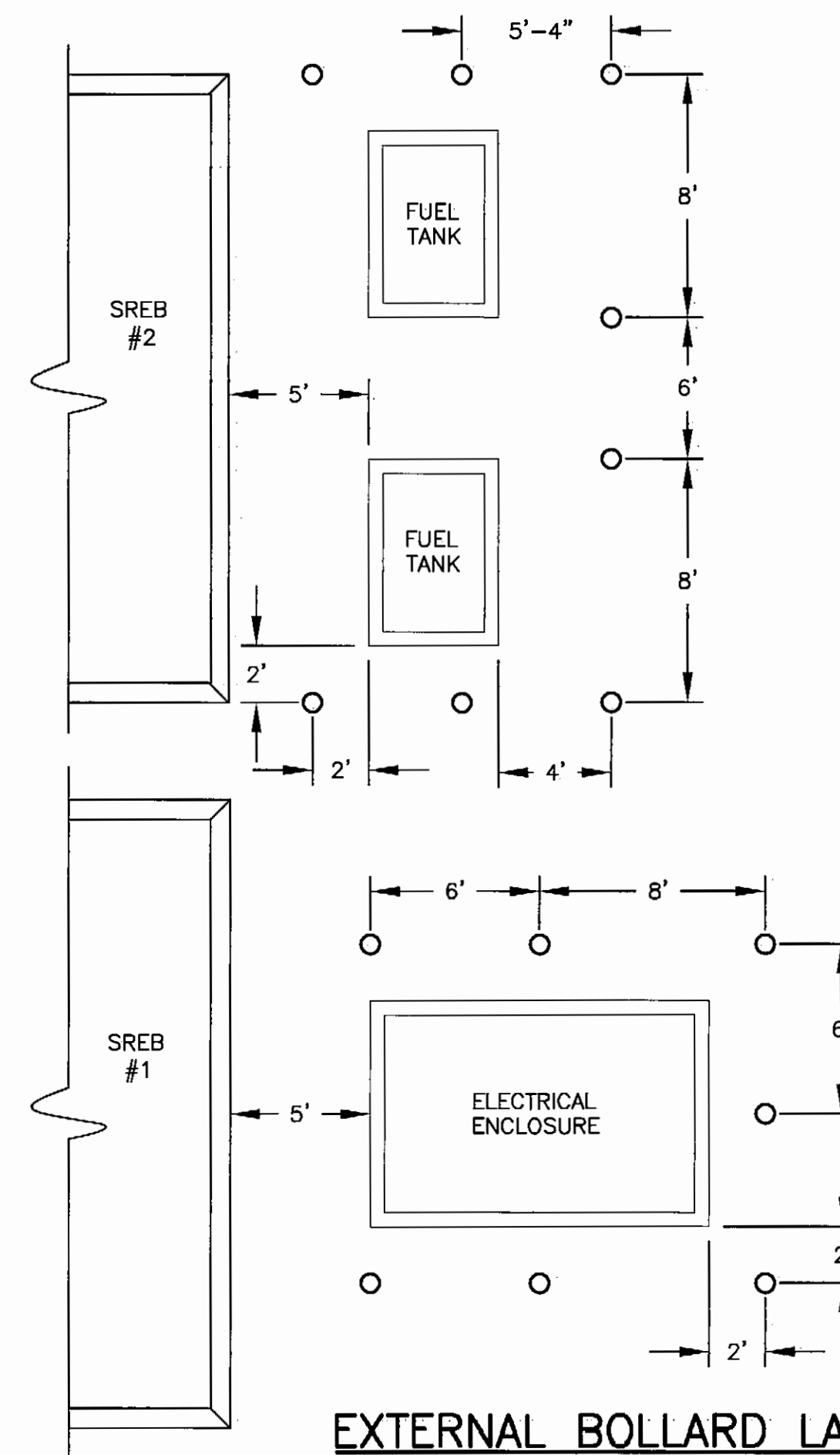


STEEL SKID FOUNDATION DETAIL

NO SCALE

DESIGN NOTES:

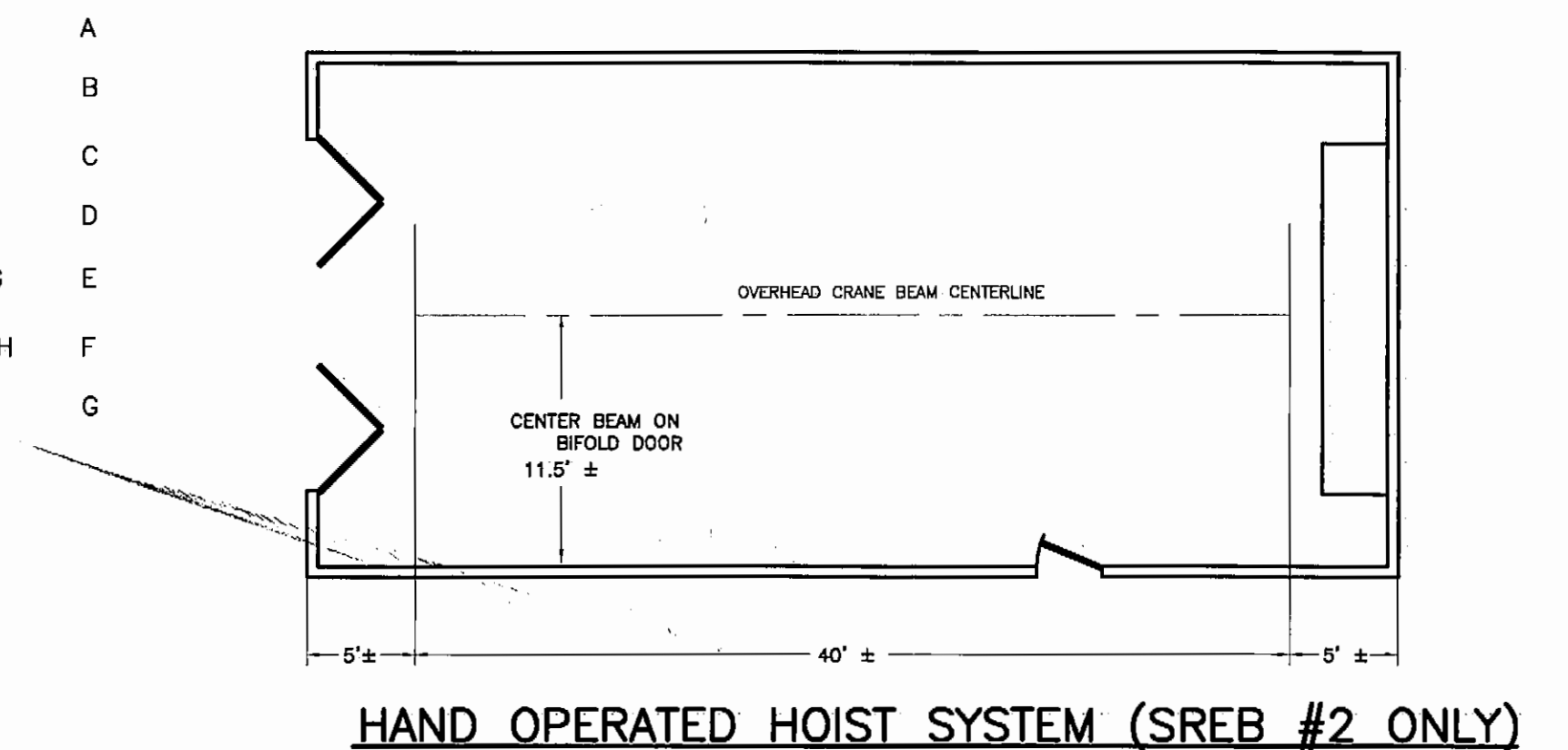
1. A STEEL PLATE AT THE BOTTOM OF THE LONGITUDINAL FLOOR BEAM MAY BE USED TO PROVIDE MINIMUM GROUND BEARING WIDTH (G).
2. USE $\frac{1}{4}$ " MINIMUM THICKNESS PATTERN FLOOR PLATE WITH UNDERSIDE REINFORCING RIBS OF ANGLE, TEE, OR CHANNEL SECTIONS, DESIGNED TO SUPPORT THE SPECIFIED LOADS.
3. Laterally brace longitudinal skid beams with angle (or tee) knee braces from floor plate stiffeners to 3" above bottom flange, spaced at 10' maximum.
4. FABRICATE SKID IN TWO SECTIONS. PROVIDE CHANNEL BEAM SECTION AT MATCH LINE, TO BE FIELD JOINED (BACK TO BACK) WITH (2) $\frac{1}{4}$ " BOLTS ALONG FULL LENGTH. FIELD WELD LONGITUDINAL SEAM IN FLOOR PLATE TO SEAL. SIZE EACH LONGITUDINAL FLOOR BEAM AS REQUIRED TO SUPPORT ALL TRIBUTARY DEAD LOADS + 25% ALLOWANCE (FOR OTHER LOADS). PROVIDE TRANSVERSE BEAMS AT FRONT AND REAR; PROVIDE FULL MOMENT SPLICE AT MATCH LINE AND SIZE TO SUPPORT DEAD LOADS FROM WALL AND INTERIOR FLOOR BEAMS + 25% ALLOWANCE (FOR OTHER LOADS) AND ALLOW JACKING COMPLETE BUILDING FROM 4 CORNERS.
5. TRANSVERSE BEAMS TO BE LOCATED 6" HIGHER THAN BOTTOM OF LONGITUDINAL FLOOR BEAMS. (IF USING W18 FOR EXTERIOR SKID, USE W12 FOR TRANSVERSE FRAME BEAM.) AT FRONT AND REAR TRANSVERSE BEAM, PROVIDE PRESSURE TREATED WOOD SILL BELOW BOTTOM OF BEAM TO EQUAL DEPTH OF LONGITUDINAL BEAMS, ANCHOR WITH LAG SCREWS THROUGH BOTTOM FLANGE. (THIS IS TO PROVIDE SOLID BEARING AND HEADWALL. WOOD SILL WOULD BE REMOVED PRIOR TO REPOSITIONING STRUCTURE.)
6. PROVIDE TURNBUCKLE ATTACHMENT TO EXTERIOR SKIDS AT BUILDING FRAMES FOR DEADMAN TYPE ANCHORS FOR WIND LOADS. EXTEND EXTERIOR LONGITUDINAL BEAMS WITH SLOPED (UP) BOTTOM AND PROVIDE PAD-EYE ATTACHMENT POINTS FOR FUTURE BUILDING REPOSITIONING. USE PAD-EYES MADE OF 1" PLATE MINIMUM WITH HOLE SIZED FOR 1 $\frac{1}{2}$ " MINIMUM SHACKLE PIN. BRACE TOW BRACKET TO TRANSVERSE BEAMS WITH TS4X4 MINIMUM WITH WELDED CONNECTIONS. PROVIDE SIMILAR ARRANGEMENT FOR TOW BEAM NEAR MATCH LINE. ALSO PROVIDE 4"x12" HORIZONTAL ANCHOR PADS ALONG SLOPED UP BOTTOM OF TOW BEAMS FOR RELEVELING BUILDING WITH BOTTLE JACKS.
7. DO NOT EXPOSE STRUCTURAL TIMBER OR WOOD WITHIN 6 INCHES OF THE EXPECTED GROUND SURFACE, UNLESS OTHERWISE SPECIFIED.
8. INSULATE STEEL FLOOR FOUNDATION SYSTEM TO A MINIMUM R-14 VALUE.
9. PROVIDE REINFORCEMENT AT ALL PENETRATIONS THROUGH BEAMS.



EXTERNAL BOLLARD LAYOUT

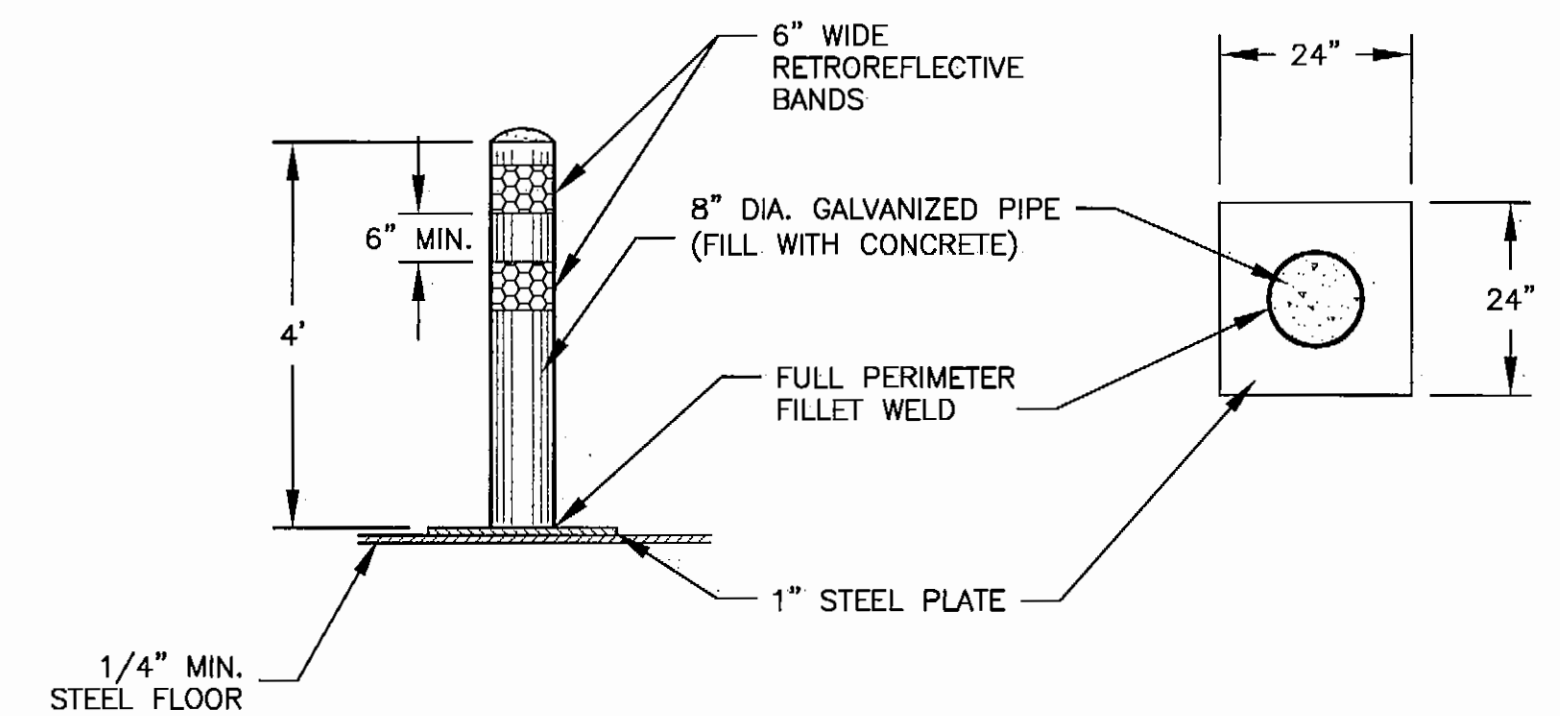
NO SCALE

NOTE: ACTUAL NUMBER OF BOLLARDS TO BE FIELD VERIFIED
TO MAINTAIN A SPACING NO GREATER THAN 8'



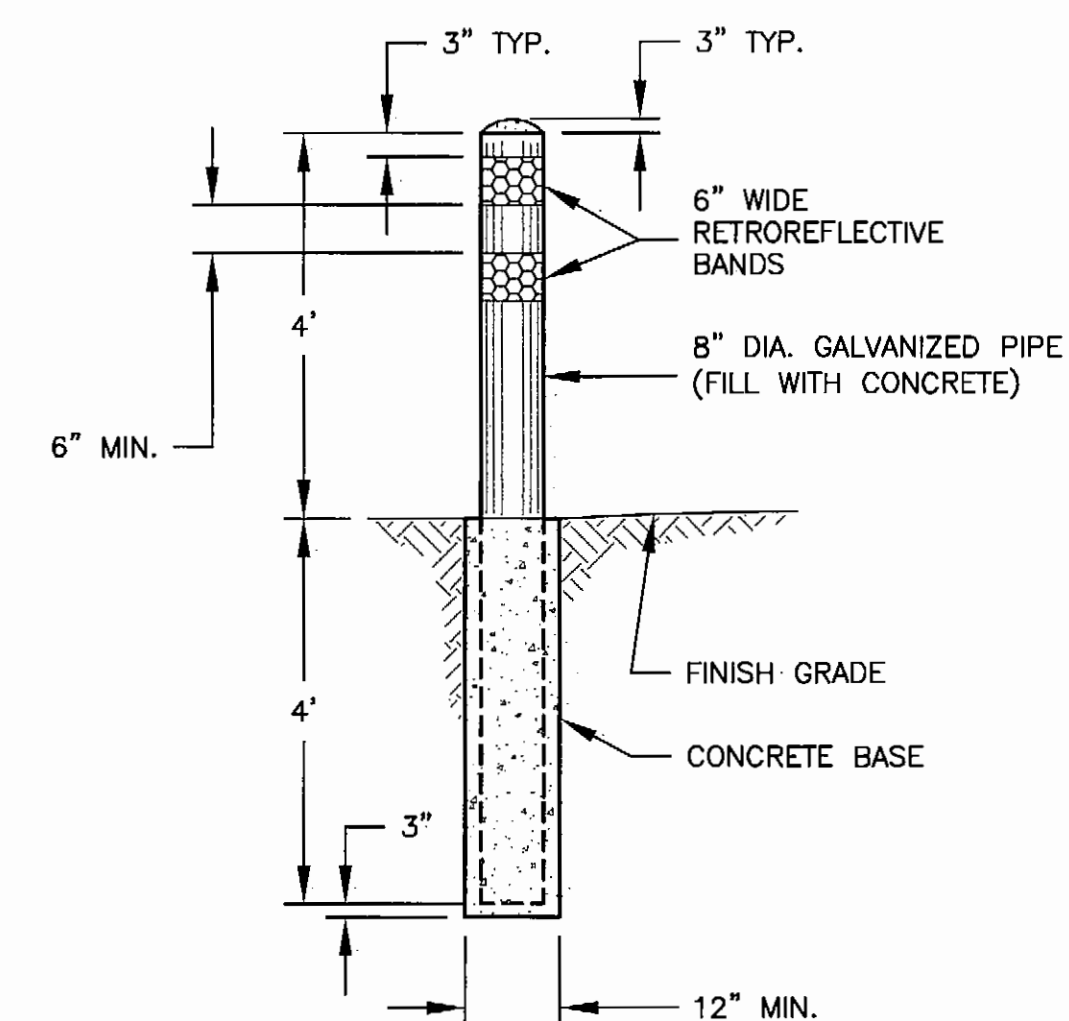
NOTES:

1. VERIFY THAT HOIST SYSTEM DOES NOT CONFLICT WITH STRUCTURAL MEMBERS, BIFOLD DOORS, LIGHTS, UNIT HEATER STACK, CEILING FAN, OR OTHER BUILDING ELEMENTS.



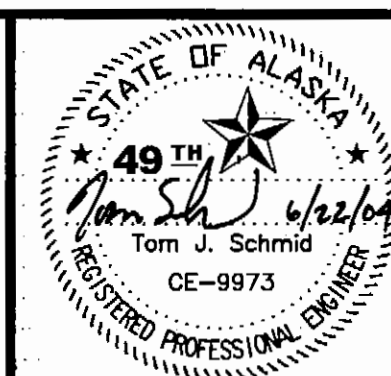
INTERNAL BOLLARD ON STEEL FLOOR DETAIL

NO SCALE



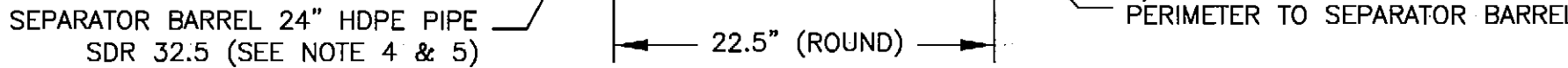
EXTERNAL BOLLARD DETAIL

NO SCALE



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

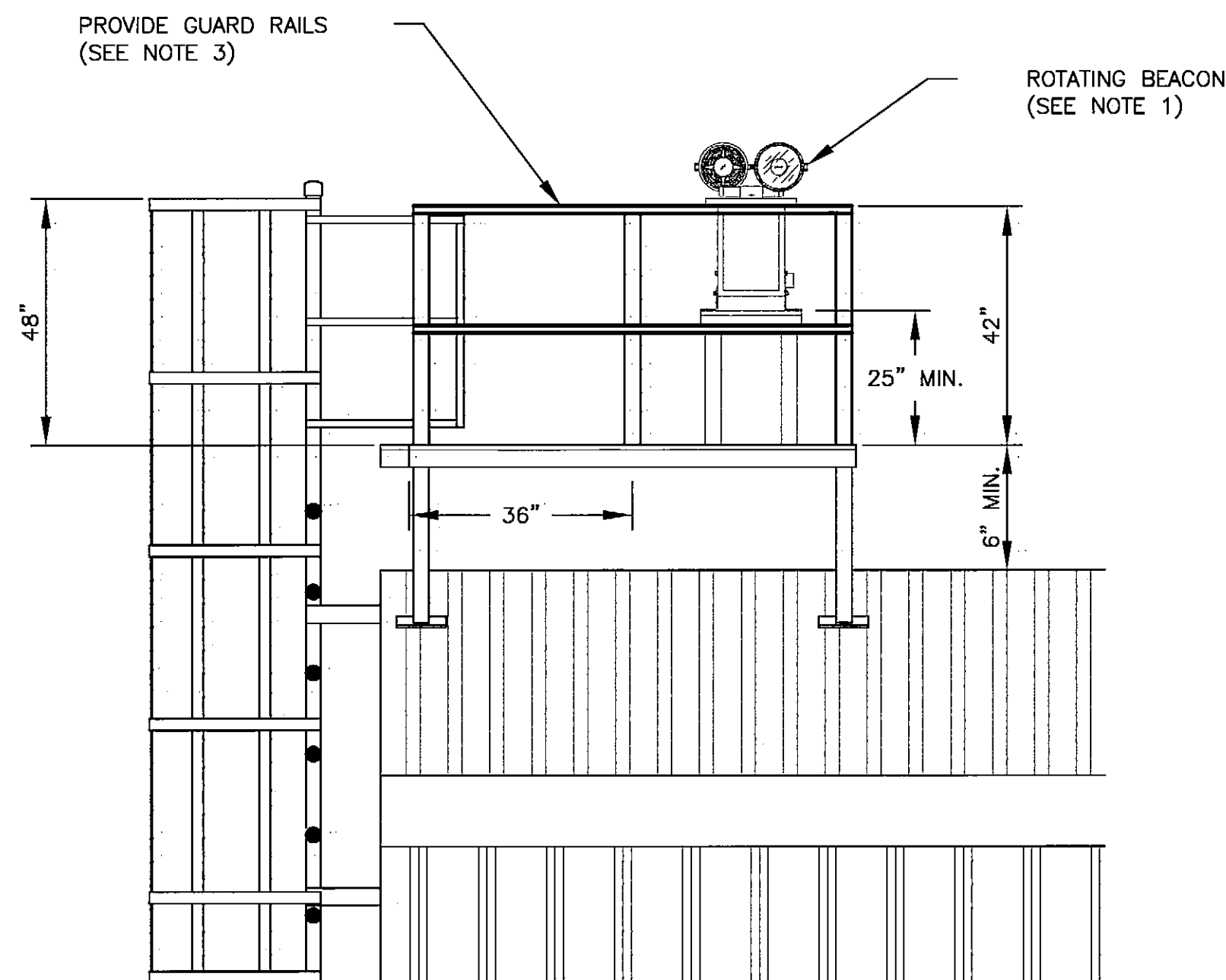
CLARKS POINT AIRPORT
CLARKS POINT, ALASKA
AIRPORT RELOCATION STAGE II
55598
AIP No. 3-02-0062-0304
FLOOR PLAN, HOIST & BOLLARD DETAILS

Date Plotted:

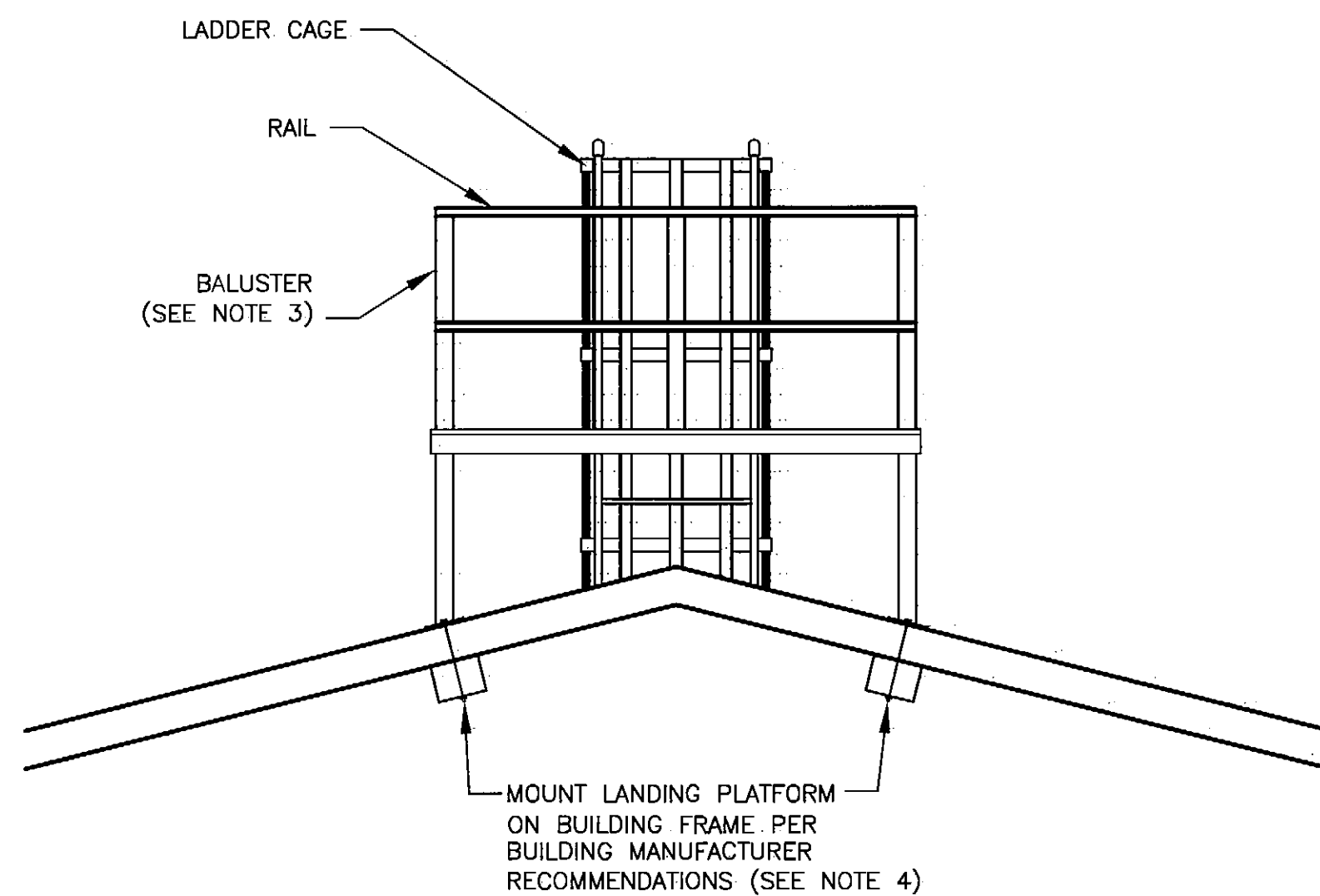
1. WELDS SHALL BE FULL THICKNESS OF PARTS.
2. JOIN HEAT TRACE CONDUITS WITH MECHANICAL CONNECTORS. SPRAY URETHANE FOAM OVER COMPLETED JOINTS AND COVER THAT INSULATION WITH HEAT SHRINK SLEEVE.
3. HEAT TRACE AT SEPARATOR SHALL CONSIST OF 27 LAPS AND 12 LAPS AROUND THE SAND TRAP SUMP.
4. HEAT TRACE CABLE FOR SUMP SHALL BE SELF-REGULATING TYPE RATED 10-WATTS/FOOT NOMINAL AT 240-VOLTS @32°F. MAXIMUM MAINTAINED OPERATING TEMPERATURE OF HEAT TRACE SHALL NOT EXCEED 150°F AND SHALL BE LISTED FOR CLASS-1, DIVISION-1, GROUPS A, B, C & D: RAYCHEM 10BTV2-CT AND 5BTV2 RESPECTIVELY OR APPROVED EQUAL. HEAT TRACE SHALL BE INSTALLED IN CONTACT WITH SUMP AND SEPARATOR WITHOUT OVERLAP, COVERED WITH ALUMINUM TAPE AND COVERED IN POLYURETHANE INSULATION. HEAT TRACE INSTALLED IN INSULATED PIPE SHALL BE TERMINATED AT THE OUTFALL AS SHOWN.



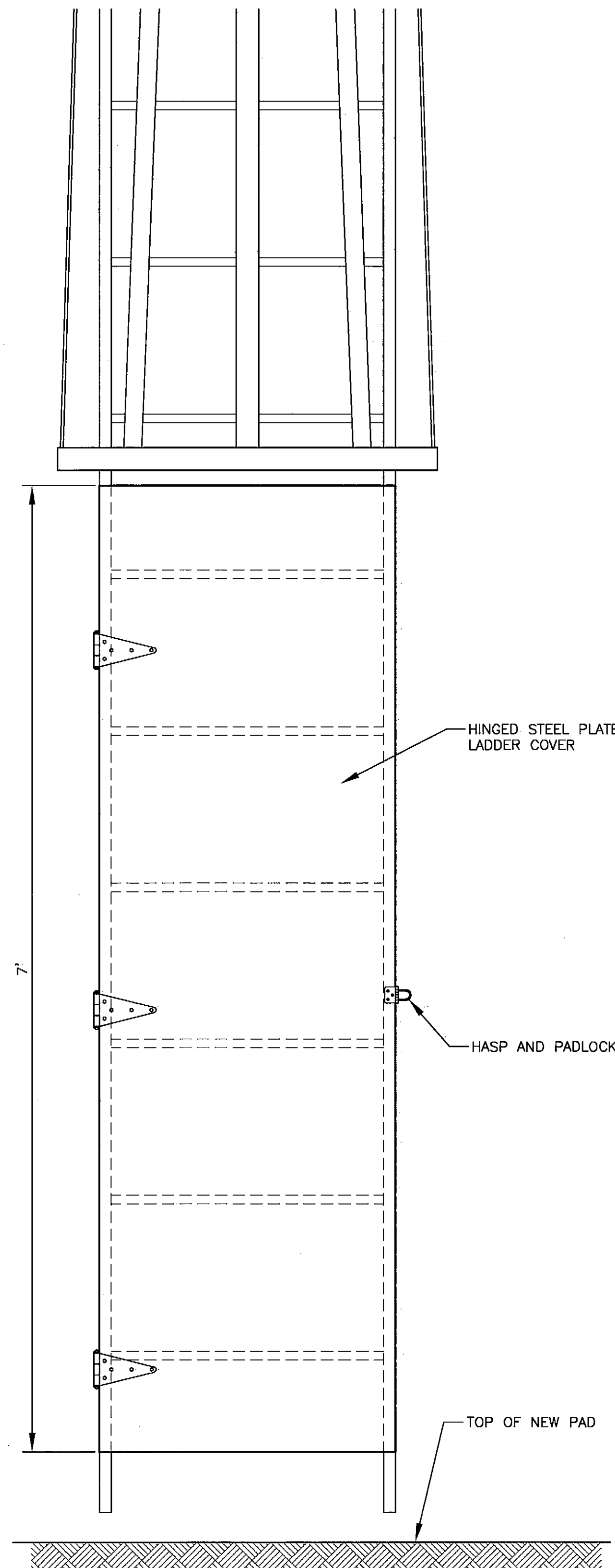
Date Plotted: 2004
Plot Ratio and Layout: 1=1, Layout=
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Designed By: BBH
Checked By: TJS
Drawn By: MT



LANDING PLATFORM SIDE VIEW
NOT TO SCALE



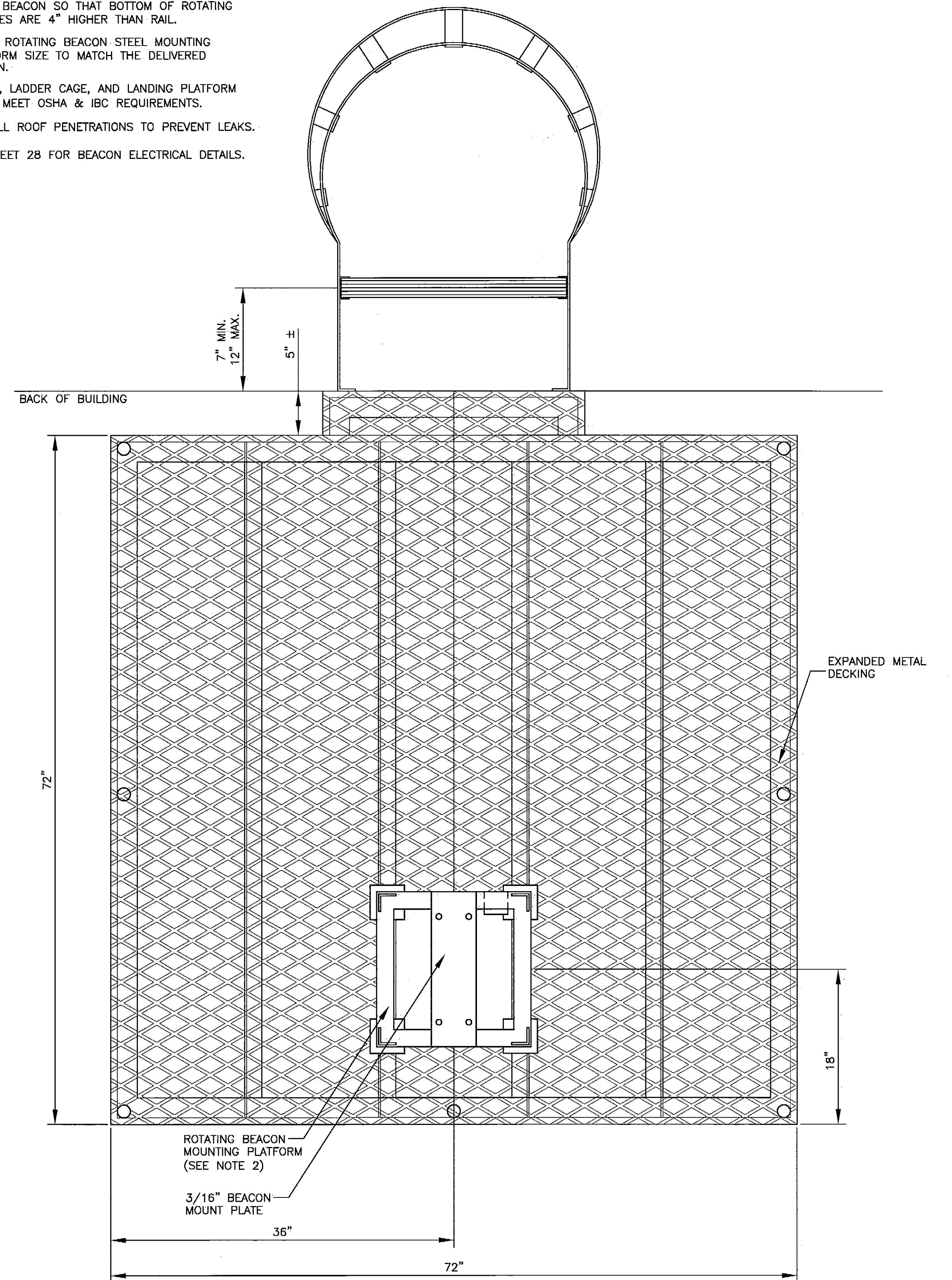
LANDING PLATFORM FRONT VIEW
NOT TO SCALE



LADDER BASE DETAIL
NOT TO SCALE

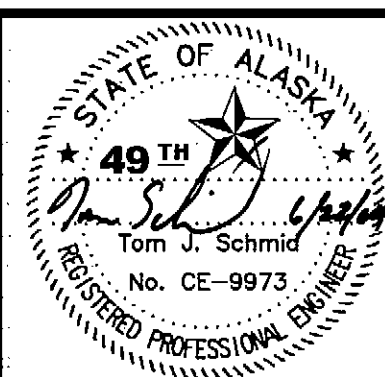
NOTES:

1. MOUNT BEACON SO THAT BOTTOM OF ROTATING FIXTURES ARE 4" HIGHER THAN RAIL.
2. ADJUST ROTATING BEACON STEEL MOUNTING PLATFORM SIZE TO MATCH THE DELIVERED BEACON.
3. LADDER, LADDER CAGE, AND LANDING PLATFORM SHALL MEET OSHA & IBC REQUIREMENTS.
4. SEAL ALL ROOF PENETRATIONS TO PREVENT LEAKS.
5. SEE SHEET 28 FOR BEACON ELECTRICAL DETAILS.



LANDING PLATFORM PLAN
NOT TO SCALE

S.R.	3/4/08	AS-BUILT
BY	DATE	REVISIONS

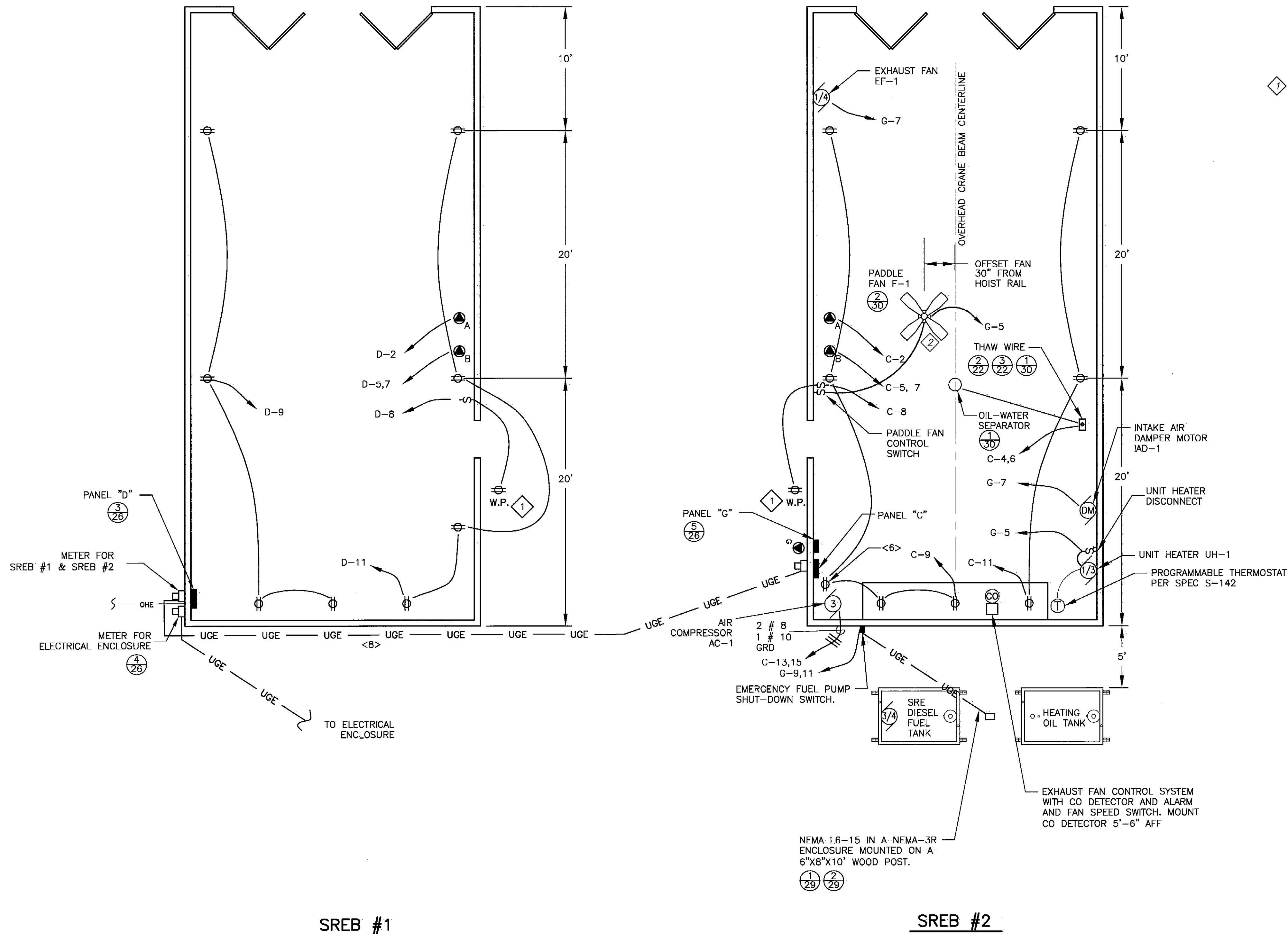


STATE OF ALASKA
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CLARKS POINT AIRPORT
CLARKS POINT, ALASKA
AIRPORT RELOCATION STAGE II
55598
AIP No. 3-02-0062-0304
ROOF ACCESS LADDER AND
PLATFORM DETAILS

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23
OF
34

2004
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Designed By: JSD
Checked By: TJS
Drawn By: MGT



POWER PLAN
ELECTRICAL EQUIPMENT LIST

◇ GFCI NEMA 5-20 RECEPTACLE IN SURFACE MOUNT SHEET METAL NEMA-3R ENCLOSURE, MIDWEST ELECTRICAL PRODUCTS CAT NO. U010, OR APPROVED EQUAL. MOUNT 4' ABOVE FINISH GRADE. PROVIDE INTERIOR DISCONNECT SWITCH WITH PILOT LIGHT.

ELECTRICAL NOTES - SHEETS 25 & 27

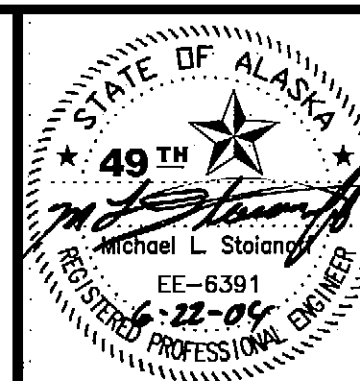
- <1> MOUNT SWITCHES AND RECEPTACLES 4' MINIMUM ABOVE THE TOP OF THE FLOOR.
- <2> ALL CONDUITS IN THE BUILDING, PASSING THROUGH THE ZONE FROM THE FLOOR TO 1.5' ABOVE THE FLOOR, SHALL BE EITHER RMC OR IMC AND SHALL HAVE A SEAL FITTING LOCATED 2' ABOVE THE FLOOR.
- <3> RACEWAYS TO BE CONNECTED BEHIND WAINSCOT EXCEPT AT PANEL-C, HEAT TRACE CONTROLS AND ELECTRIC CONNECTIONS TO MECHANICAL EQUIPMENT.
- <4> IF STEEL FLOOR IS SPECIFIED, IT IS TO BE BONDED TO THE PANEL-C GROUNDING ELECTRODE SYSTEM WITH A #6 AWG CONDUCTOR AT THE SERVICE ENTRANCE. SERVICE - NEMA-3R.
- <5> SWITCHES FOR LIGHT FIXTURES-A & E TO HAVE LOCATOR LIGHTS IN TOGGLE.
- <6> 120-VOLT POWER FOR COMPRESSOR CRANKCASE HEATER AND AUTOMATIC CONDENSATE DRAIN CONTROL TO BE CONNECTED TO NEMA-5-20 RECEPTACLE NEXT TO COMPRESSOR.
- <7> PROVIDE CONDUITS TO ANTENNA & BEACON IF ROOF ACCESS LADDER AND PLATFORM ARE TO BE MOUNTED ON BUILDING.
- <8> INSTALL COAXIAL CABLE TO THE NEW ANTENNA ON SREB #1.
- <9> CONNECT BEACON TO LIGHTING CONTROL SYSTEM IN ELECTRICAL ENCLOSURE.
- <10> NOT ALL SYMBOLS & NOTES USED.

SREB #1

SREB #2

1 POWER DISTRIBUTION PLAN
25 NO SCALE

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BY	DATE	REVISIONS

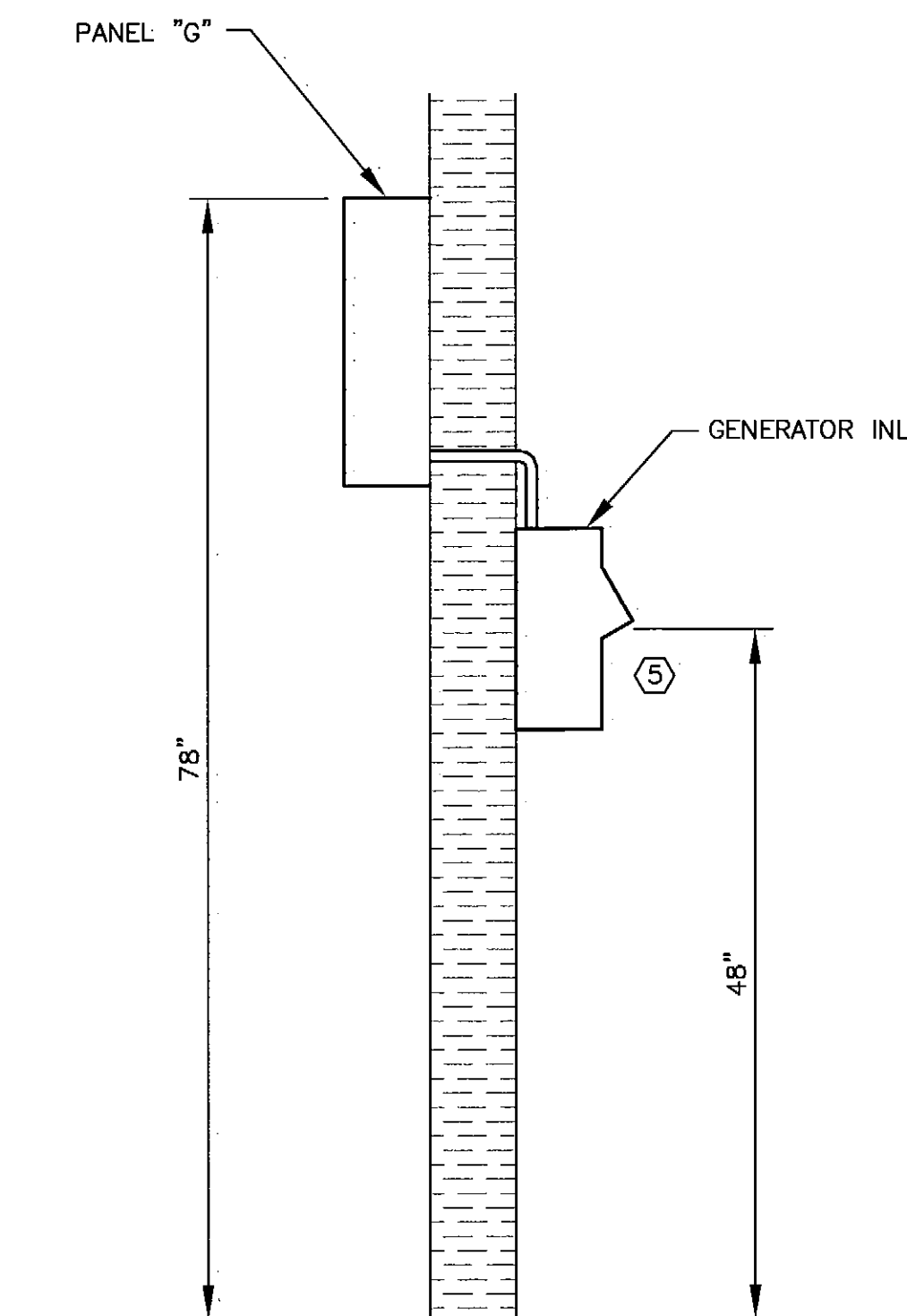


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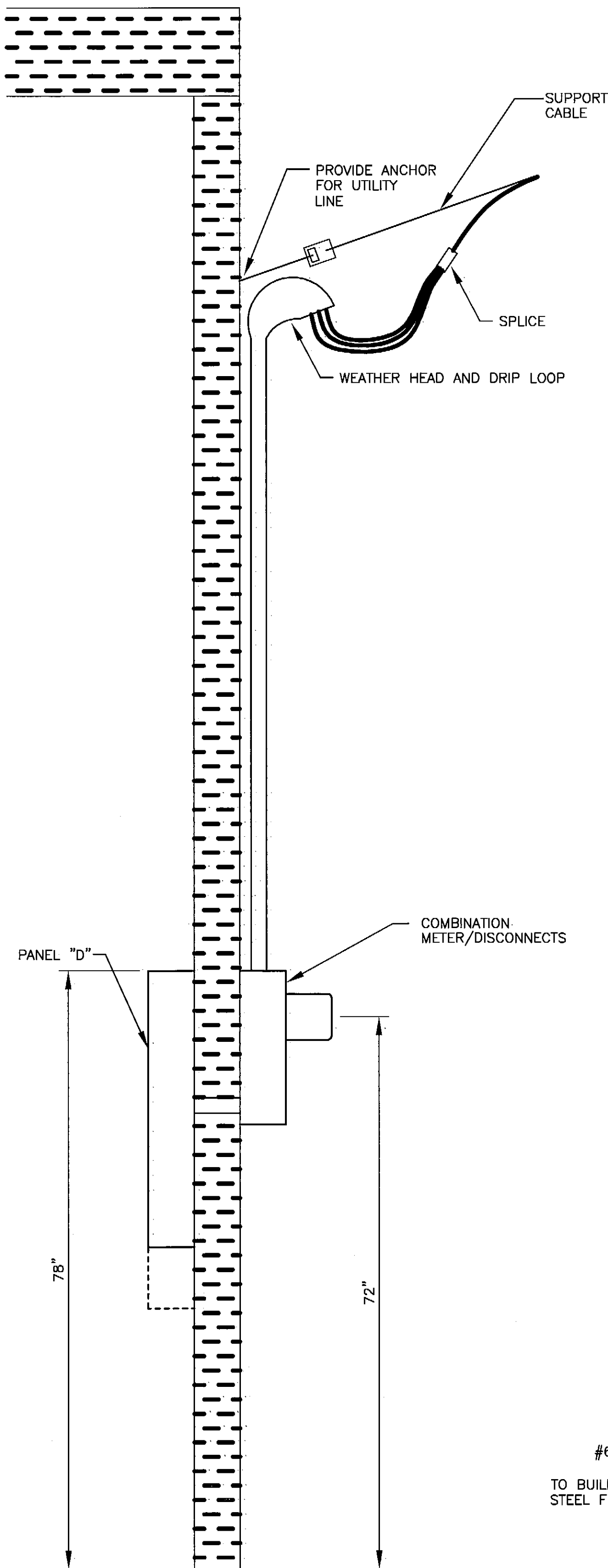
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AIP No. 3-02-0062-0304
POWER DISTRIBUTION PLAN

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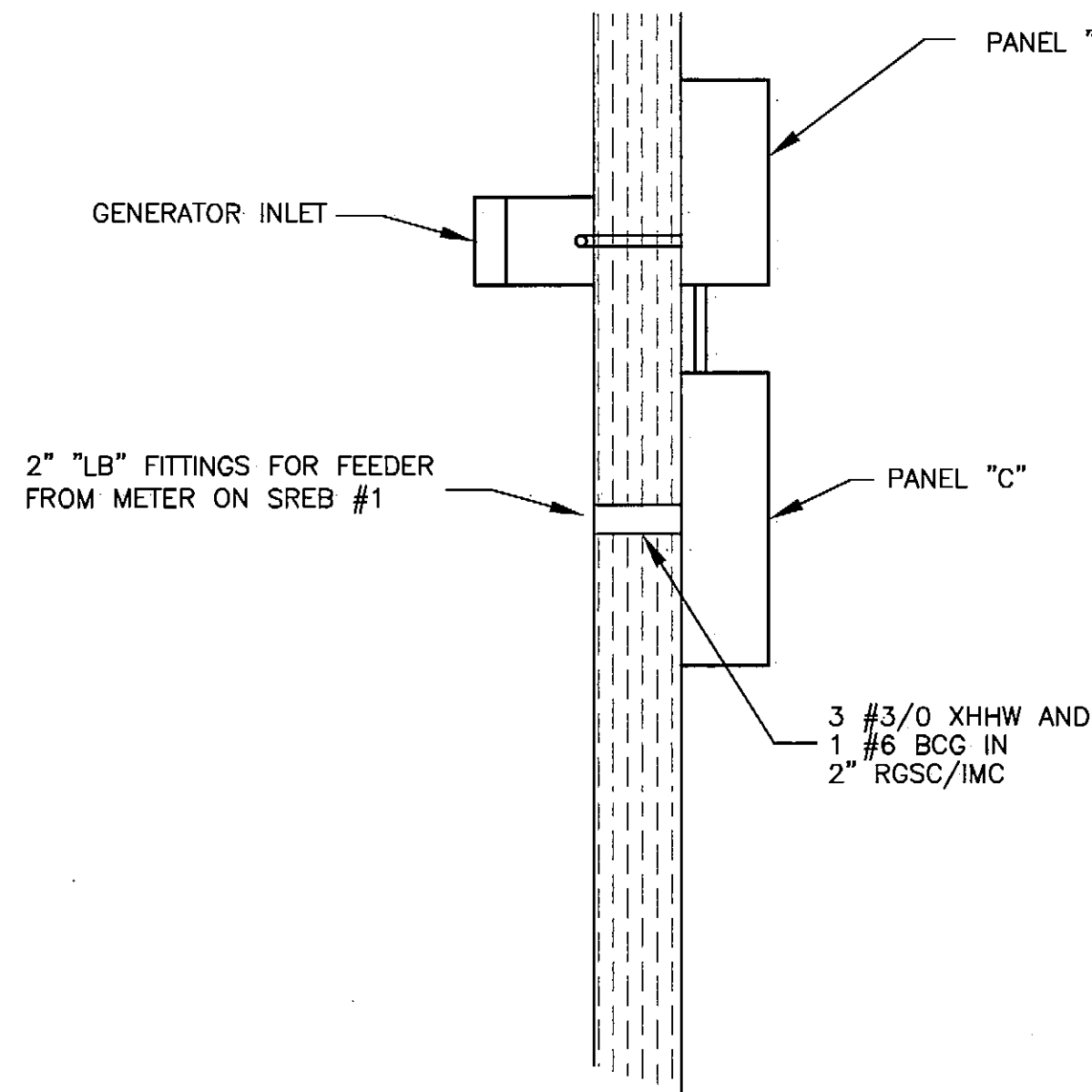
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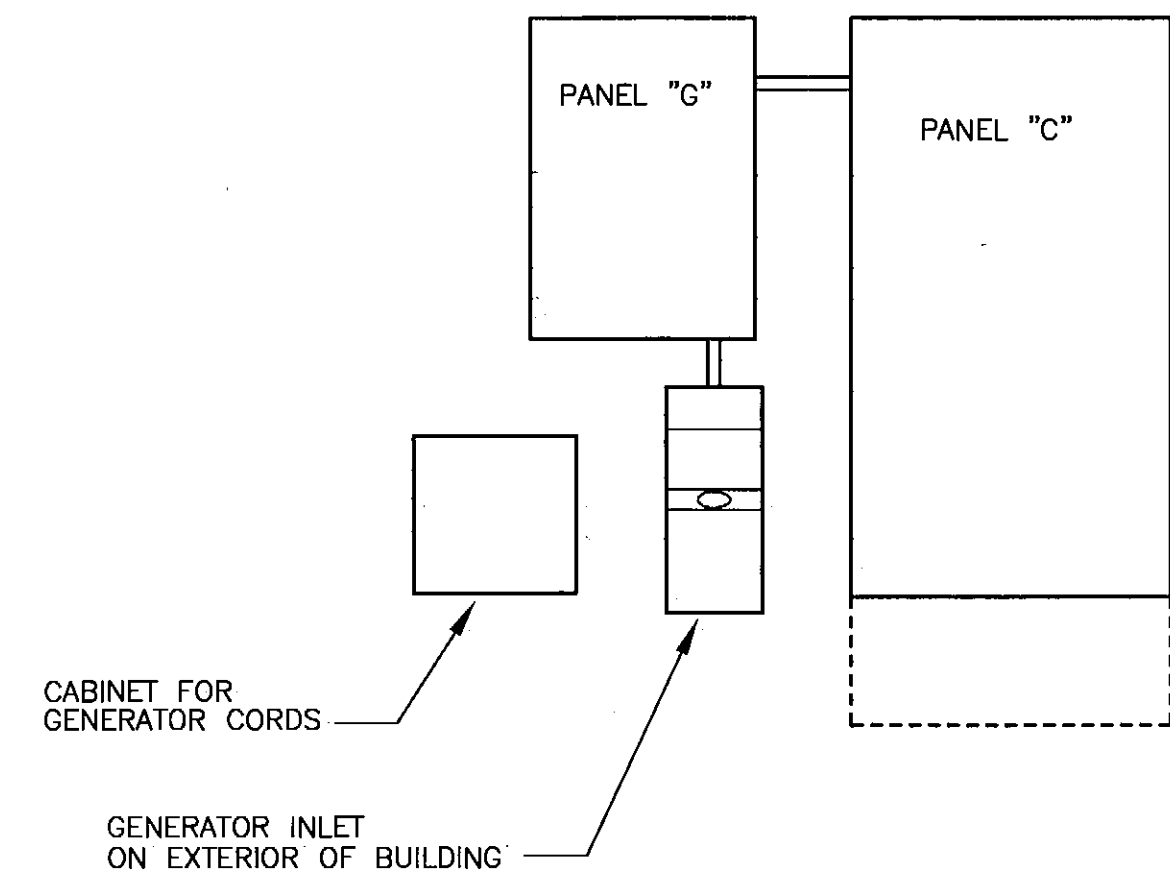
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26
PANEL "G" - GENERATOR INLET
ELEVATION (SREB #1)



3
26
PANEL "D" - METER ELEVATION

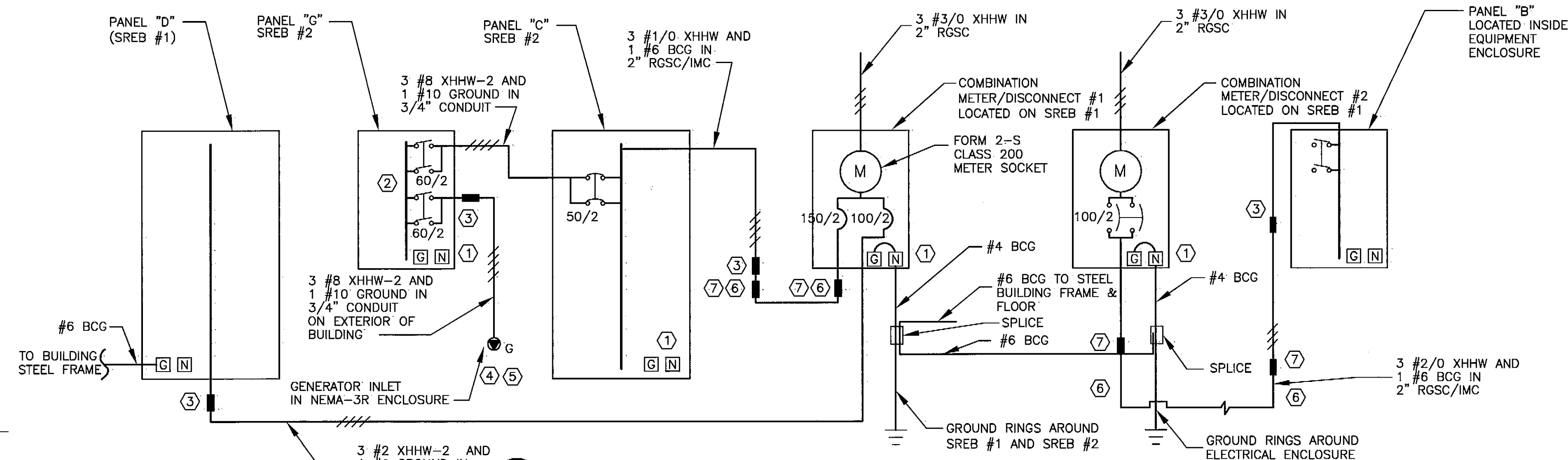


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PLAN VIEW (SREB #2)



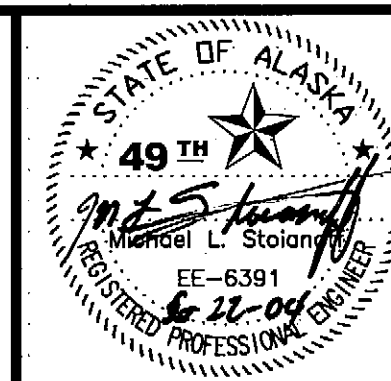
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26
INSIDE ELEVATION (SREB #2)

- NOTES:
- CONNECTIONS TO NEUTRAL AND GROUND BUSES NOT SHOWN
 - INTERLOCKED MOLDED-CASE SWITCH & CIRCUIT BREAKER WITH HOLD DOWN BRACKETS.
 - CONDUIT SEAL BETWEEN THE INTERIOR AND EXTERIOR OF THE BUILDING.
 - PROVIDE A 20-FOOT "ARCTIC" POWER CORD CONTAINING THREE #8 AWG POWER CONDUCTORS AND ONE #10 AWG GROUND CONDUCTOR WITH A CS63-64* CONNECTOR ON ONE END AND A CS63-65C* PLUG ON THE OTHER. PROVIDE THE FOLLOWING 36-INCH LONG ADAPTER CORDS:
(A) 1-4C #10 POWER CORD WITH A CS63-64* CONNECTOR ON ONE END AND A NEMA-L14-30 PLUG ON THE OTHER.
(B) 1-4C #12 POWER CORD WITH A CS63-64* CONNECTOR ON ONE END AND A NEMA-L14-20 PLUG ON THE OTHER. PROVIDE WALL CABINET NEXT TO PANEL-G TO STORE THE CORDS.
 - MOUNT A CS63-75C* (MALE) GENERATOR INLET IN A NEMA-3R GALVANIZED/PAINTED ENCLOSURE WITH THE INLET 48 INCHES ABOVE THE FLOOR LEVEL - MIDWEST ELECTRIC PRODUCTS CAT. NO. U050N.
 - PROTECT HDPE CONDUIT UP 24" ABOVE AND BELOW FINISH GRADE WITH GRC OR IMC.
 - PROVIDE 24-INCHES OF LIQUID TIGHT FLEXIBLE METAL CONDUIT IN AN "S" SHAPE TO ALLOW DIFFERENTIAL MOVEMENT.
- * CALIFORNIA STANDARD 125/250-VOLT, 3-POLE, 4-WIRE, NON-NEMA, 50-AMP WIRING DEVICE, LEVITON CATALOG # AS SHOWN, OR APPROVED EQUAL.



4
26
ONE LINE POWER DIAGRAM

BY	DATE	REVISIONS
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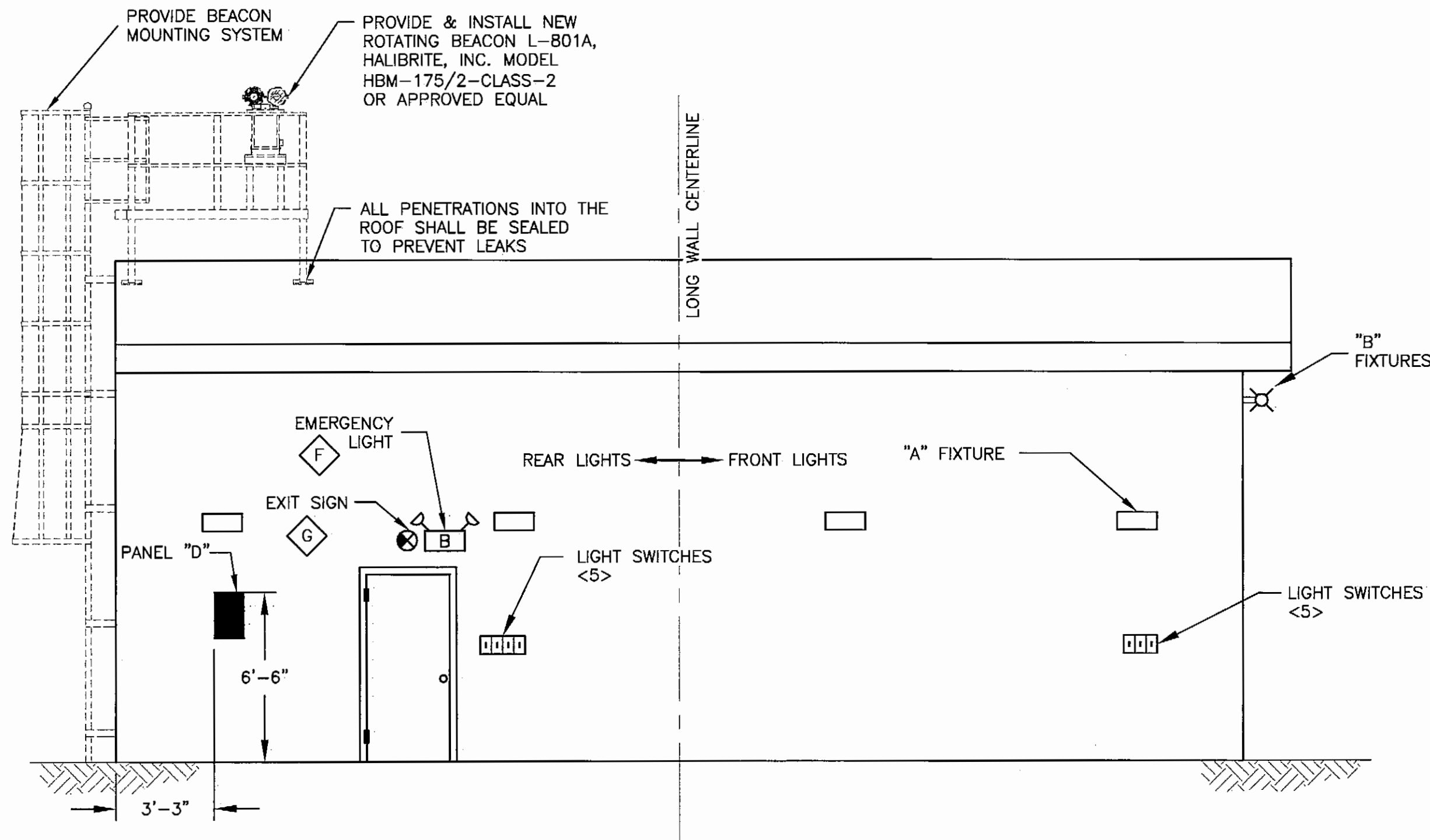


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55598
AIP No. 3-02-0062-0304
POWER DISTRIBUTION DETAILS

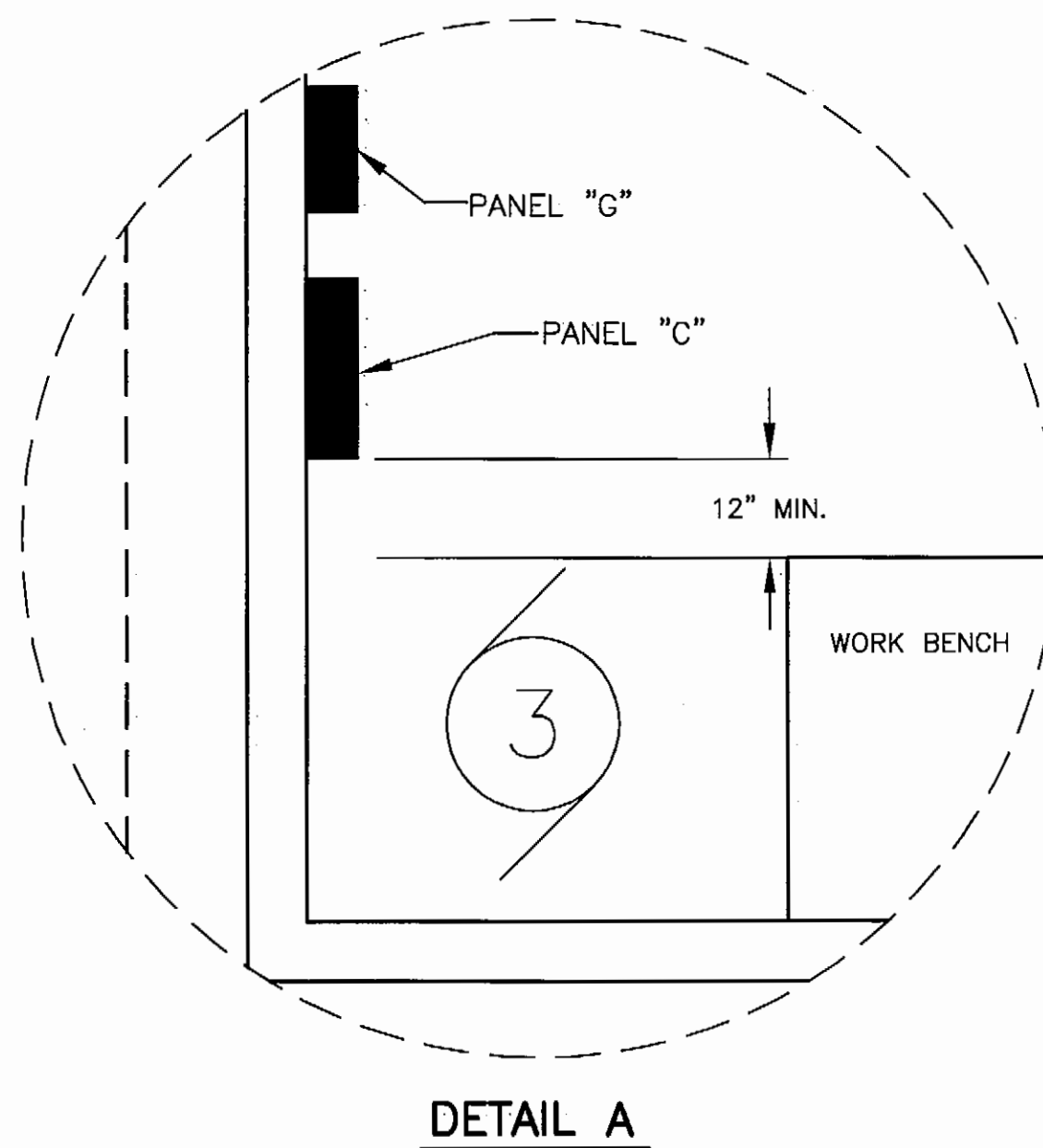
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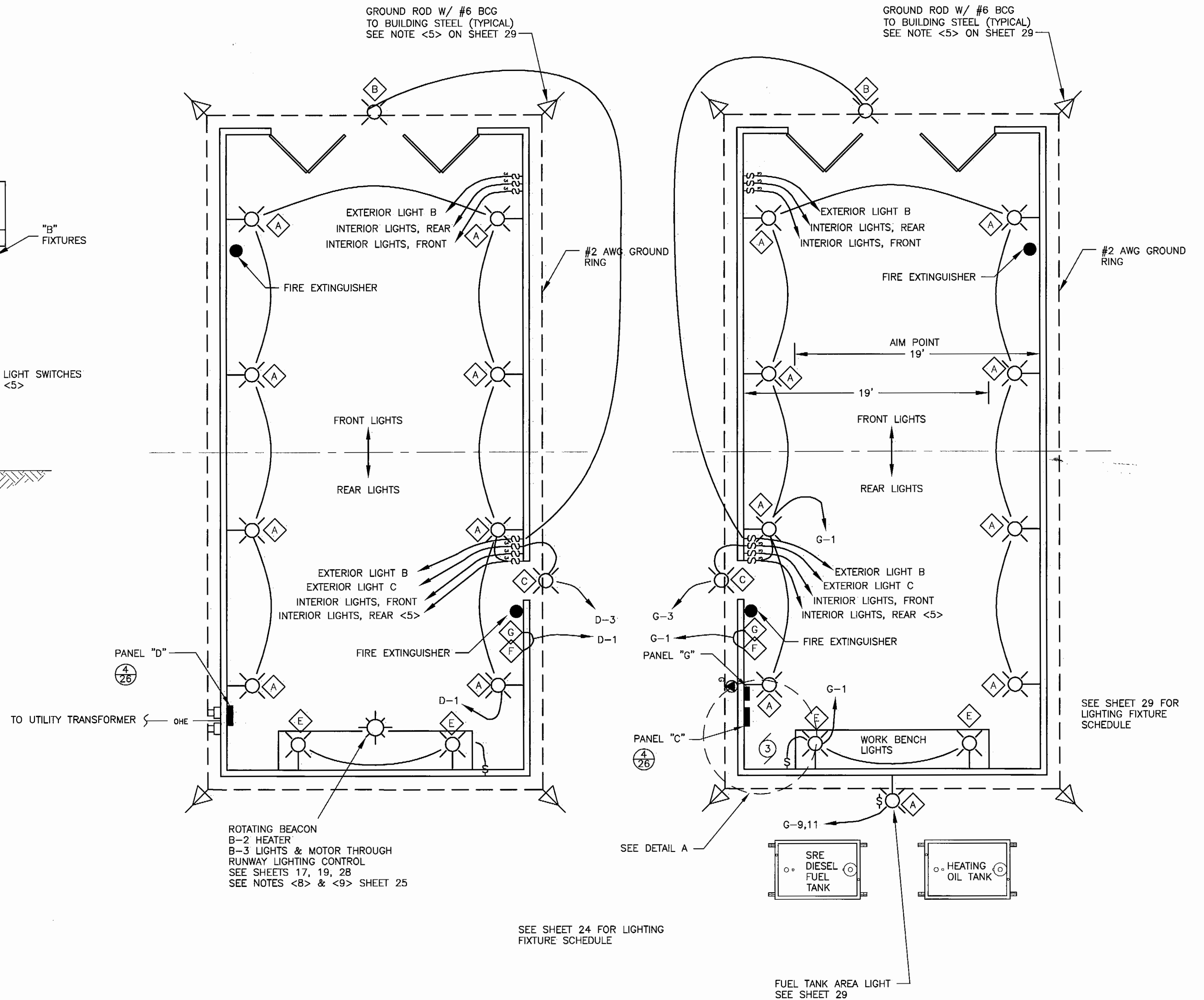


INTERIOR ELEVATION VIEW

1
27 SREB ELECTRICAL LAYOUT (SREB #1 SHOWN)
NOT TO SCALE



DETAIL A

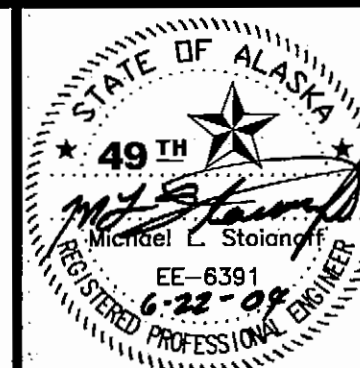


SREB #1

SREB #2

2
27 LIGHTING PLAN
NOT TO SCALE

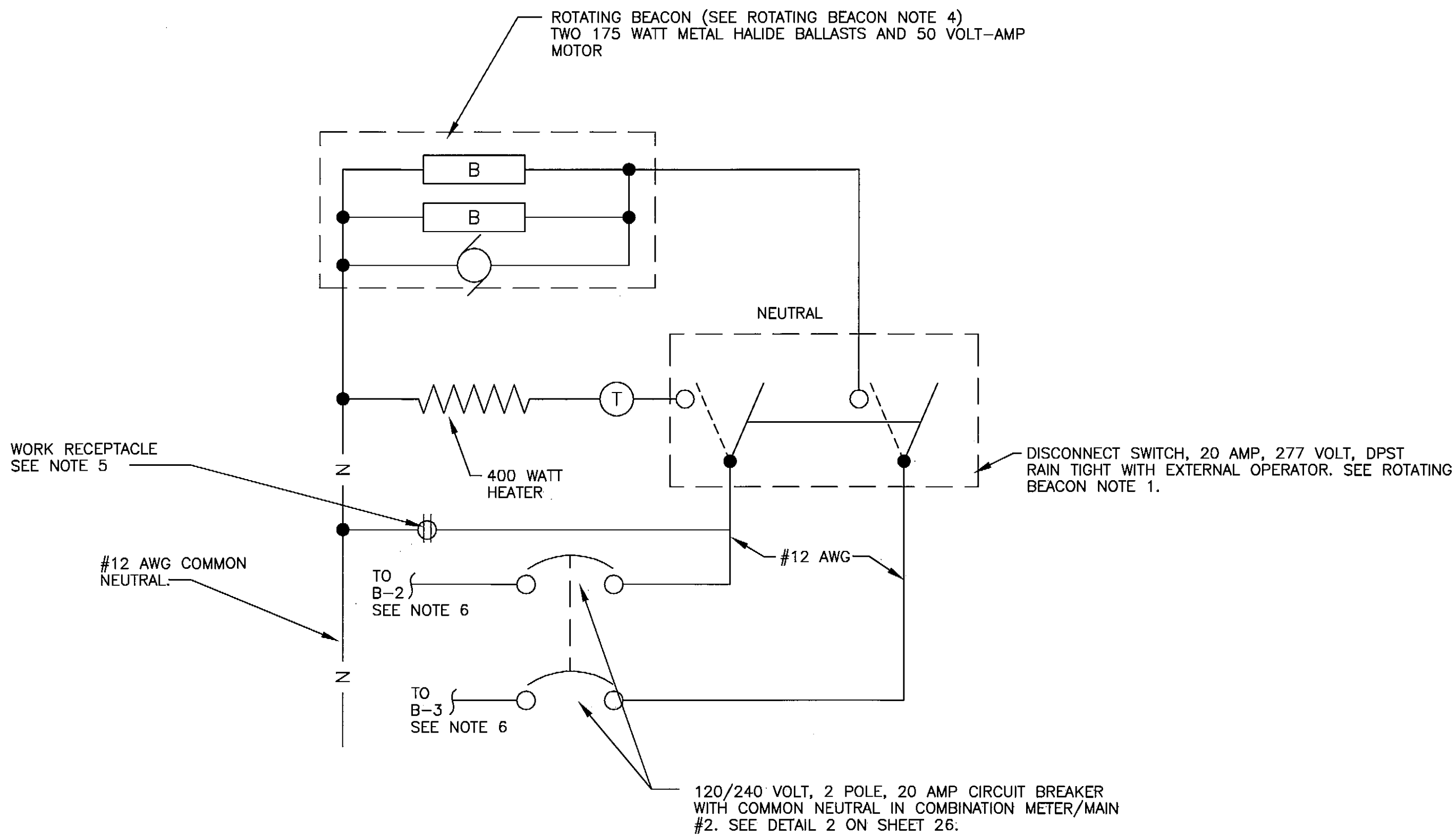
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BY	DATE	REVISIONS



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CLARKS POINT AIRPORT
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 55598
 AIP No. 3-02-0062-0304
 LIGHTING PLAN &
 SREB ELECTRICAL LAYOUT

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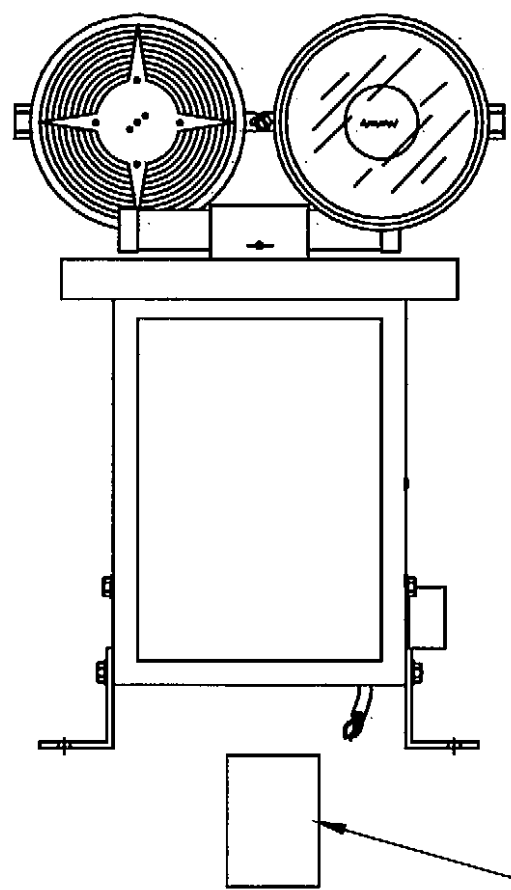


ROTATING BEACON NOTES:

1. MOUNT HOA SWITCH BELOW BEACON. LABEL SWITCH POSITIONS ON-OFF-AUTO.
2. MOUNT PHOTO ELECTRIC CELL WITH WINDOW FACING NORTH.
3. #12 GROUND WIRE - NOT SHOWN.
4. PROVIDE & INSTALL NEW ROTATING BEACON L-801A, HALIBRITE, INC. MODEL HBM-175/2-CLASS-2 OR APPROVED EQUAL.
5. NEMA 5-20 GFCF RECEPTACLE WITH W.P. COVER AT BEACON.
6. WIRES TO CIRCUITS B-2 & B-3 THROUGH AIRPORT R/W LIGHTING CONTROL. SEE

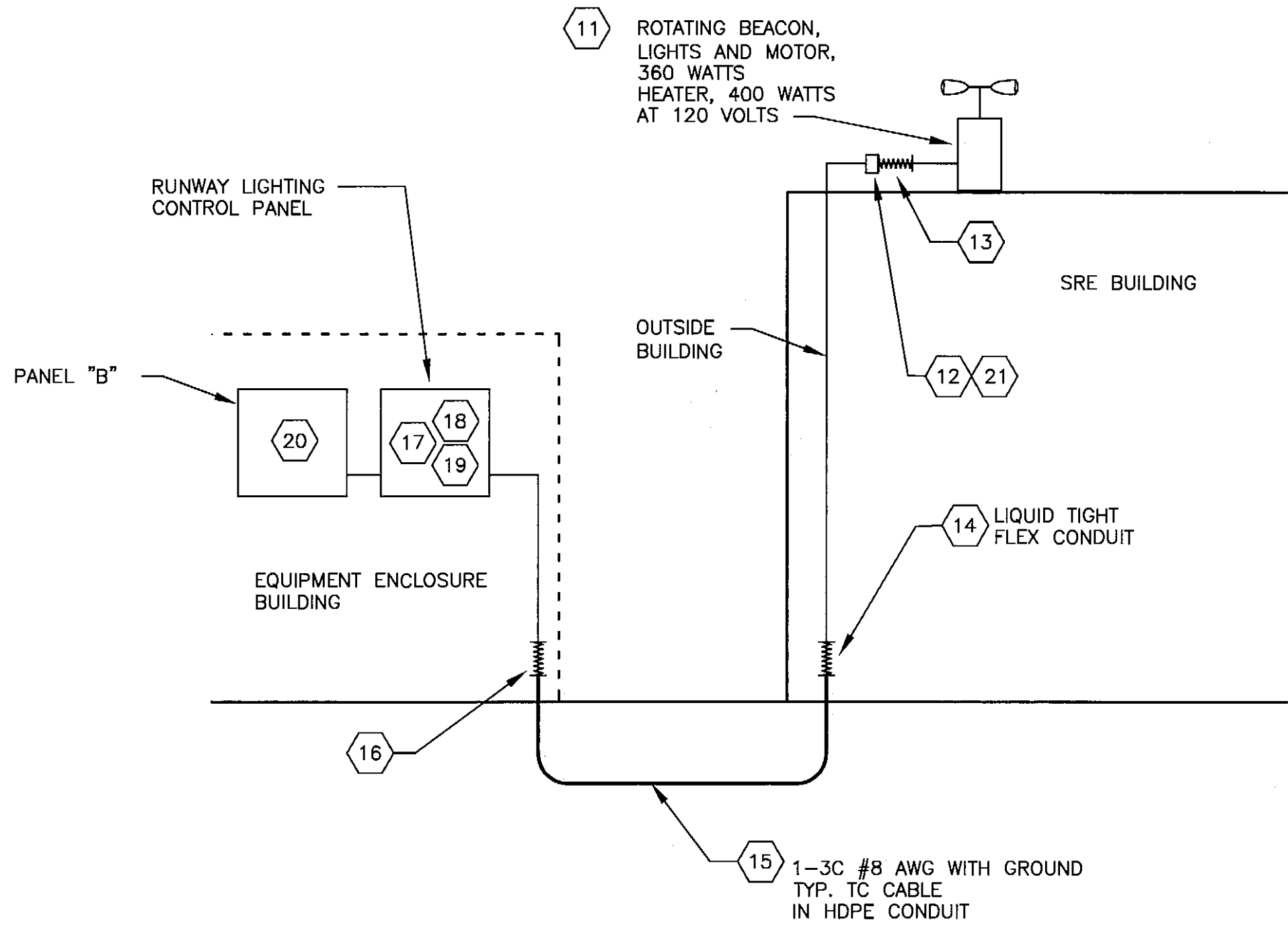
PROVIDE & INSTALL NEW ROTATING BEACON L-801A, HALIBRITE, INC. MODEL HBM-175/2-CLASS-2 OR APPROVED EQUAL

1
28
ROTATING BEACON WIRING DIAGRAM



DISCONNECT & WORK OUTLET BELOW BEACON SEE ROTATING BEACON NOTES 1 AND 5

2
28
BEACON DETAIL



DESCRIPTION

Note:

- 11 MOUNT BEACON ON PLATFORM SRE BUILDING WITH ELECTRICAL CONNECTIONS TO THE LIGHTING CONTROL PANEL AND PANEL-B IN THE EQUIPMENT ENCLOSURE BUILDING.
- 12 PROVIDE WEATHERPROOF 2-POLE 20-AMP DISCONNECT SWITCH FOR BOTH BEACON CIRCUITS, BELOW THE BEACON ON THE PLATFORM, LABEL ON & OFF POSITIONS.
- 13 PROVIDE METALLIC LIQUID TIGHT FLEXIBLE CONDUIT CONNECTION TO BEACON.
- 14 PROVIDE METALLIC LIQUID TIGHT FLEXIBLE CONDUIT BETWEEN CONDUITS ABOVE AND BELOW GROUND AT SRE BUILDING.
- 15 1.5 INCH SCHEDULE -40 OR SRD-11 HDPE CONDUIT UNDERGROUND BETWEEN THE SRE BUILDING AND EQUIPMENT ENCLOSURE BUILDING. BURY A MINIMUM OF 30 INCHES DEEP.
- 16 PROVIDE METALLIC LIQUID TIGHT FLEXIBLE CONDUIT BETWEEN CONDUITS ABOVE AND BELOW GROUND AT THE EQUIPMENT ENCLOSURE BUILDING.
- 17 PROVIDE #10 AWG GROUND CONDUCTOR FOR BEACON FROM GROUND CONNECTION IN THE LIGHTING CONTROL PANEL.
- 18 PROVIDE #10 AWG CONDUCTOR, FOR BEACON LIGHTING, FROM LIGHTING CONTROL PANEL TERMINAL 8C.
- 19 PROVIDE #10 AWG COMMON NEUTRAL CONDUCTOR FOR BEACON LIGHTING AND HEATER CIRCUITS, FROM LIGHTING CONTROL PANEL TERMINAL 6B. ASSUMES THAT CIRCUITS FOR BEACON LIGHTING (B-3) AND THE HEATER (B-2) ARE ON SEPARATE PANEL LEGS (A&B)
- 20 CONNECT BEACON HEATER (400-WATT) TO 20-AMP 1-POLE CIRCUIT BREAKER (B-2) OR OTHER POSITION ON PANEL LEG (A OR B) NOT THE SAME AS THE BEACON LIGHTING CIRCUIT. SEE NOTE #19.
- 21 MOUNT WORK OUTLET IN SAME LOCATION AS DISCONNECT SWITCH

3
28
ROTATING BEACON ONE-LINE DIAGRAM

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ROTATING BEACON DETAIL, WIRING, AND
ONE LINE DIAGRAMS

SHEET
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- 1 WALL MOUNT AREA LIGHT FIXTURE SAME AS LIGHT FIXTURE "A", MOUNT ON WET LOCATION OUTLET BOX.
- 2 SIGN: COLORS — WHITE 3/4" LETTERS ON RED BACKGROUND.
TEXT — "EMERGENCY FUEL PUMP SHUT DOWN SWITCH". MOUNT SIGN 6-INCHES ABOVE EMERGENCY FUEL TANK PUMP SHUT DOWN SWITCH.
- 3 EMERGENCY VEHICLE FUEL PUMP SHUTDOWN SWITCH. 15-AMP 2-POLE 250-VOLT SWITCH IN A WET LOCATION BOX WITH A RAIN TIGHT ACTUATOR. LABEL SWITCH POSITIONS (UP = ON, DOWN = OFF). DO NOT WIRE LIGHT FIXTURE THROUGH SWITCH.
- 4 CONTROL SWITCH FOR AREA LIGHT FIXTURE: PROVIDE A 0-60 MINUTE SPRING-MOTOR INTERVAL TIMER WITHOUT HOLD IN A NEMA 3R ENCLOSURE (INTERMATIC MODEL FD60M IN A MIDWEST ELECTRIC POWER OUTLET U010010 ENCLOSURE).
- 5 MOTOR VEHICLE FUEL TANK PUMP POWER RECEPTACLE: NEMA L6-15 (15-AMP, 250-VOLT TWIST LOCK) RECEPTACLE IN A NEMA 3R ENCLOSURE (MIDWEST ELECTRIC POWER OUTLET U023) ENCLOSURE. PROVIDE AN ANGLE NEMA L6-15 PLUG AND 8 FEET OF 14-GAUGE 300-VOLT ARCTIC POWER CORD FOR CONNECTION TO TANK MOUNTED PUMP CONTROL.
- 6 PRESSURE TREATED 6x8x10' PRESSURE-TREATED WOOD POST.
- 7 HDPE ABOVE GROUND TO BE INSTALLED IN A CURVED SHAPE TO ALLOW UP TO 6-INCHES OF DIFFERENTIAL MOVEMENT BETWEEN THE HDPE CONDUIT IN THE GROUND AND THE IMC CONDUIT ATTACHED TO THE BUILDING AND RECEPTACLE MOUNTING POST.
- 8 BOLT TWO 12" PRESSURE TREATED 2x4s TO THE BASE OF THE RECEPTACLE SUPPORT POST AND WRAP THE POST, BELOW GROUND LEVEL, IN THREE LAYERS OF 6-MIL POLYETHYLENE PLASTIC SHEETING TO PREVENT POST FROM BEING FROST JACKED OUT OF THE GROUND.
- 9 MOUNT ITEMS NOTED IN NOTES #1, #2, #3, & #4 ON THE SRE BUILDING
- 10 POWER FOR THE PUMP AND THE LIGHT FIXTURE, FROM A SWITCH-RATED 20-AMP 2-POLE 120/240-VOLT CIRCUIT BREAKER IN PANEL-G. SEAL CONDUIT THROUGH WALL TO PREVENT MOISTURE FROM ENTERING BUILDING.
- 11 PROVIDE TERMINAL BLOCKS IN ITEMS NOTED IN NOTES #4 & #5 FOR SPLICING #12 AWG WIRES TO THE #8 AWG CONDUCTORS IN THE 1-3C#8 W/GROUND CABLE.
- 12 CONNECT HDPE TO IMC WITH GALVANIZED "HOSE BARB" FITTING OR INSERT HDPE 12" WIRES TO INSIDE IMC AND SEAL WITH HEAT SHRINK TUBING.
- 13 SET POST AT FUEL TANK.
- 14 FEEDER FROM PANEL-G 3 #12 AWG, 1 #12 AWG GROUND 1/2" C.

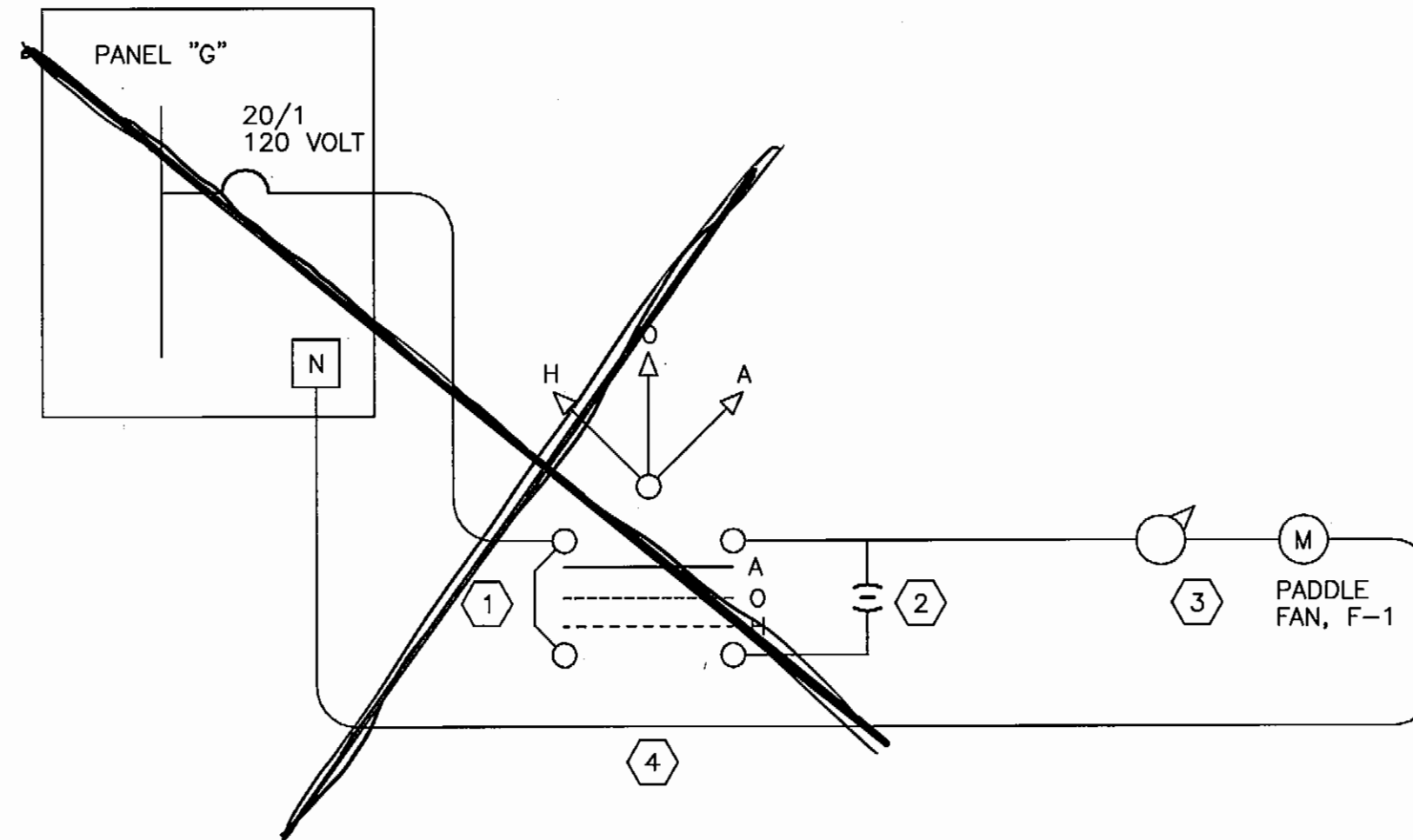
STATE OF ALASKA
49TH
MICHAEL L. STOJANOFF
EE-6391
6-22-04
REGISTERED PROFESSIONAL ENGINEER

CLARKS POINT AIRPORT
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AIRPORT RELOCATION STAGE II
55598
AIP No. 3-02-0062-0304
MOTOR VEHICLE FUEL PUMP, RECEPTACLE, LIGHTING,
& ELECTRICAL DETAILS

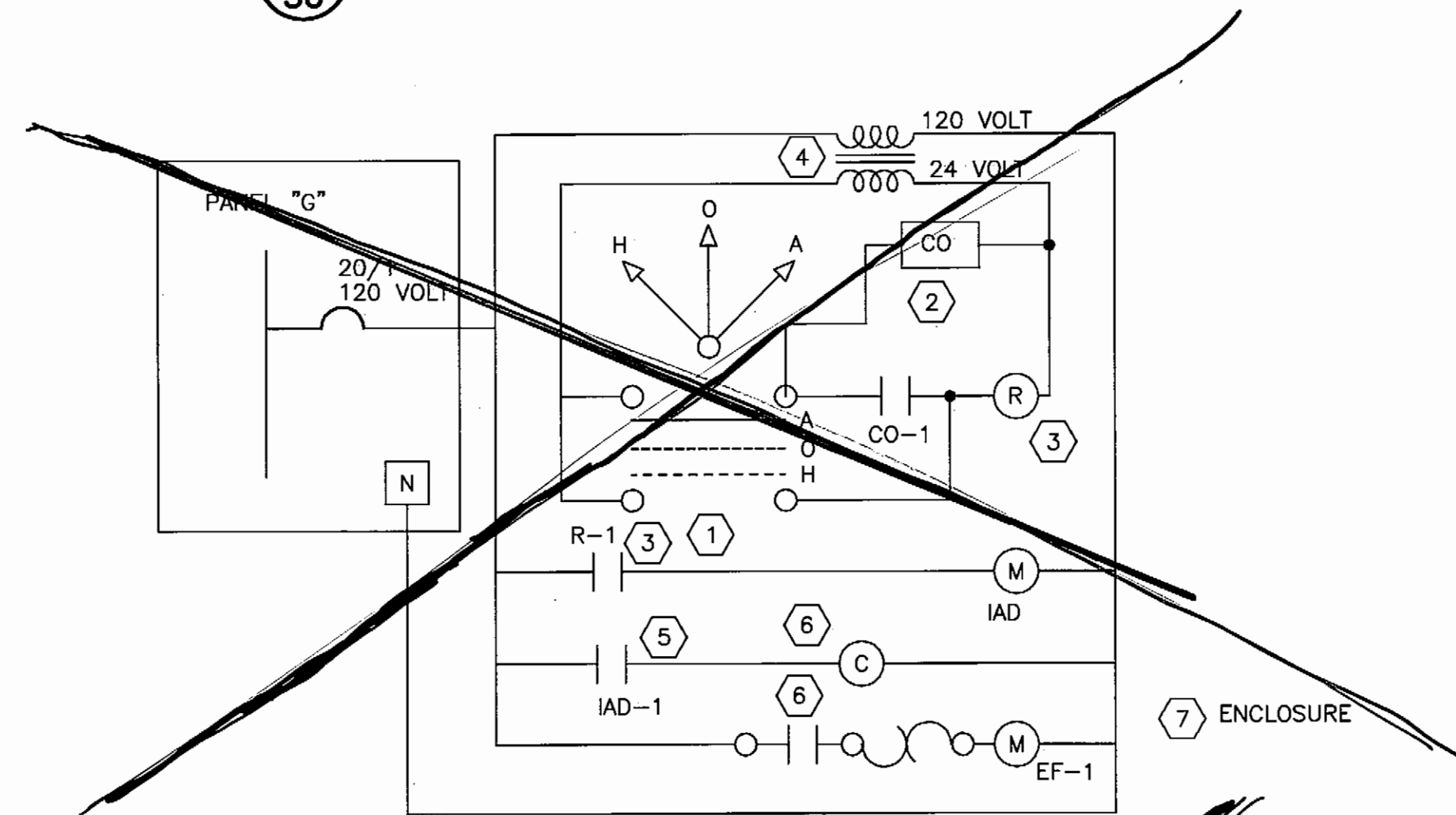
NOTES:

- 1 SPRING-MOTOR TIME SWITCH WITH 15-AMP @ 240-VOLTS SPST NO CONTACTS, RANGE 0 TO 12 HOURS WITH HOLD, INTERMATIC CAT #FF124 OR APPROVED EQUAL. LABEL "FLOOR DRAIN HEAT TRACE SYSTEM".
- 2 CONTACTOR 30-AMP @ 600 VOLT, 2 POLE, ELECTRICALLY HELD TYPE, 240-VOLT COIL, NEMA-1 ENCLOSURE, SQUARE-D CLASS 8903 CATALOG #LG20V03, OR APPROVED EQUAL.
- 3 PUSH-TO-TEST RED PILOT LIGHT, 240-VOLT, SQUARE-D CATALOG #KT73RI, OR APPROVED EQUAL. MOUNT NEXT TO TIMER (NOTE 1) AND LABEL "HEAT TRACE ON".
- 4 JUNCTION BOX WITH SPLICE BLOCK FOR CONNECTIONS BETWEEN THE HEAT TRACE CABLE AND THE NON-HEATING POWER LEADS. RAYCHEM #HAK-JB2-100, OR APPROVED EQUAL.
- 5 HEAT TRACE CABLE CONDUIT SEAL & CONNECTION KIT, CLASS-1, DIVISION-1, RAYCHEM #HAK-C-100, OR APPROVED EQUAL.
- 6 CONDUIT SEAL, CLASS-1, DIVISION-1.
- 7A HEAT TRACE CABLE #1 FOR OIL SEPARATOR, 10-WATTS PER FOOT @ 240-VOLTS, RAYCHEM #10BTV2, OR APPROVED EQUAL. SEE FLOOR DRAIN SYSTEM DETAILS SHEET.
- 7B HEAT TRACE CABLE #2 FOR OIL SEPARATOR DRAIN LINE TO OUTSIDE, 5-WATTS PER FOOT @ 240-VOLTS, RAYCHEM #5BTV2, OR APPROVED EQUAL. SEE FLOOR DRAIN SYSTEM DETAILS SHEET.
- 7C HEAT TRACE CABLE #4 FOR HDPE SAND TRAP SUMP, 10 WATTS PER FOOT @ 240-VOLTS, RAYCHEM #5BTV2, OR APPROVED EQUAL. SEE FLOOR DRAIN SYSTEM DETAILS SHEET.
- 8 NEMA-4 FLOOR MOUNT JUNCTION BOX WITH SPLICE BLOCK FOR CONNECTIONS BETWEEN THE HEAT TRACE CABLE AND THE NON-HEATING POWER LEADS. MOUNT IN FLOOR DRAIN CONCRETE WITH 3/4"-INCH RSGC CONNECTION TO INSIDE SAND TRAP SUMP.
- 9 HEAT TRACE CABLES FOR DRAIN LINES BETWEEN THE SAND TRAP SUMPS (HT#4) AND THE OIL SEPARATOR SUMP (HT#3), 8-WATTS PER FOOT @ 240-VOLTS, RAYCHEM #8BTV2-CT, WITH END SEAL (RAYCHEM #PMK-HSE2 HEAT SHRINK TYPE OR RAYCHEM #E-150 LOW PROFILE END SEAL). CONNECT TO 3/4"-INCH RSGC FROM JUNCTION BOX (NOTE 8) WITH RAYCHEM #FTC-P POWER CONNECTION AND SEAL. MAY SUBSTITUTE APPROVED EQUAL FOR ALL ITEMS IN THIS NOTE.
- 10 MAKE CONNECTIONS USING TERMINAL STRIP WITH JUMPERS RATED 30-AMPS AT 240-VOLTS.

1 HEAT TRACE SYSTEM ONE-LINE DIAGRAM
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2 PADDLE FAN CONTROL DIAGRAM
30

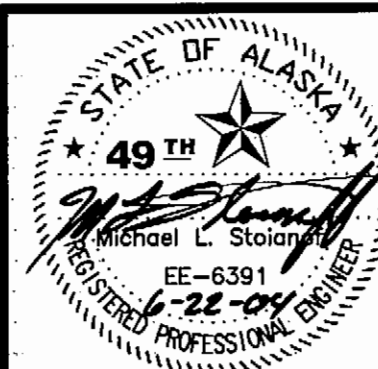


NOTES:

- 1 HAND-OFF-AUTO SWITCH. RATED 10-AMPS @ 120 VAC. SQUARE-D CLASS 9100 CATALOG #KS43B WITH #KA1 TERMINAL BLOCK & #KN260sp H-O-A LEGEND PLATE, OR APPROVED EQUAL. MOUNT IN COVER OF NEMA ENCLOSURE (NOTE 7). LABEL "VENTILATION SYSTEM" AND PROVIDE "OPERATING SEQUENCE" SIGN NEXT TO OR ON ENCLOSURE.
- 2 CARBON MONOXIDE DETECTOR. NO CONTACT IN CARBON MONOXIDE DETECTOR, CLOSURES WHEN CO IS ABOVE SET POINT. SEE SPECIFICATIONS SECTION S-1.4.1-3.3 (5). MOUNT NEXT TO ENCLOSURE (NOTE 7).
- 3 PLUG-IN RELAY WITH 24-VAC CONTROL COIL. NO/NC CONTACT RATED 10-AMPS @ 240 VOLTS. NTE #RLY1023 WITH #RLY9101 B PIN BASE, OR APPROVED EQUAL. MOUNT IN ENCLOSURE (NOTE 7).
- 4 CONTROL TRANSFORMER: 24-VA, 120 VAC PRIMARY & 24-VAC SECONDARY. PHILMORE #TR241. OR APPROVED EQUAL. MOUNT IN NEMA-1 ENCLOSURE (NOTE 7).
- 5 NO END SWITCH IN INTAKE AIR DAMPER MOTOR "IAD-1". CONTACT CLOSURES WHEN DAMPER OPENS.
- 6 MAGNETIC MOTOR STARTER NEMA SIZE-00, 120-VOLT CONTROL. MOUNT NEXT TO CARBON MONOXIDE DETECTOR. MOUNT IN NEMA-1 ENCLOSURE (NOTE 7).
- 7 NEMA-1 WITH DOOR, SIZED TO CONTAIN THE ITEMS NOTED ABOVE.
- 8 SEQUENCE OF CONTROLS - WHEN THE HOA SWITCH IS IN THE "AUTO" POSITION, THE VENTILATION SYSTEM SHALL BE CONTROLLED BY THE CARBON MONOXIDE DETECTOR AS FOLLOWS. WHEN THE CO LEVEL EXCEEDS THE DETECTOR SET POINT, THE INTAKE AIR DAMPER (IAD-1) SHALL OPEN. WHEN THE DAMPER IS OPEN, ITS END SWITCH SHALL CONTROL A MAGNETIC STARTER THAT WILL CAUSE EF-1 TO RUN. WHEN THE CO LEVEL DROPS TO BELOW THE DETECTOR SET POINT, THE IAD-1 SHALL CLOSE AND EF-1 WILL STOP. WITH THE HOA SWITCH IS IN THE "HAND" POSITION, IAD-1 SHALL OPEN AND ITS END SWITCH SHALL CAUSE EF-1 TO RUN.

3 VENTILATION SYSTEM CONTROL DIAGRAM
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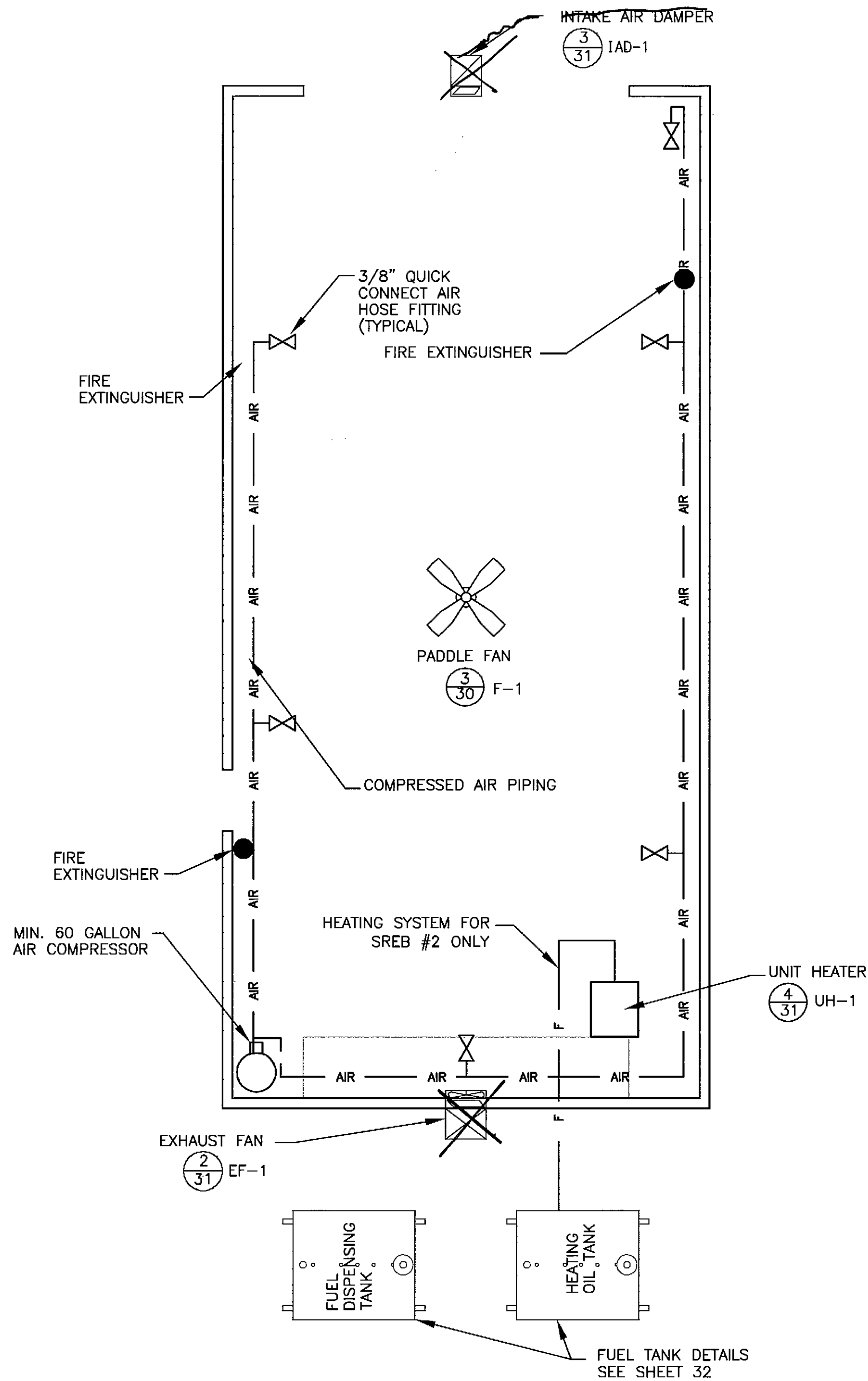


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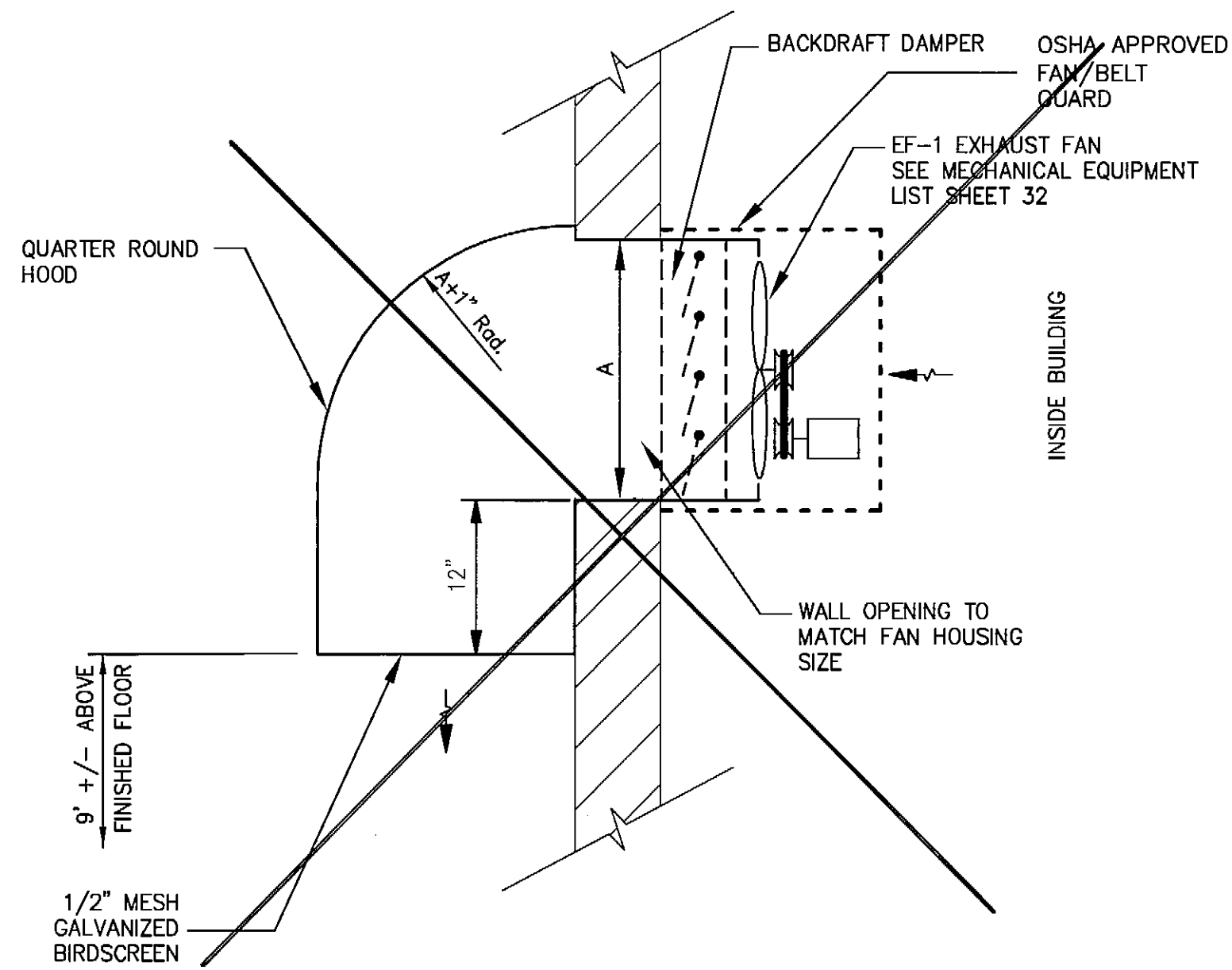
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AIRPORT RELOCATION STAGE II
55598
AIP No. 3-02-0062-0304
HEAT CONTROLS & POWER DETAILS

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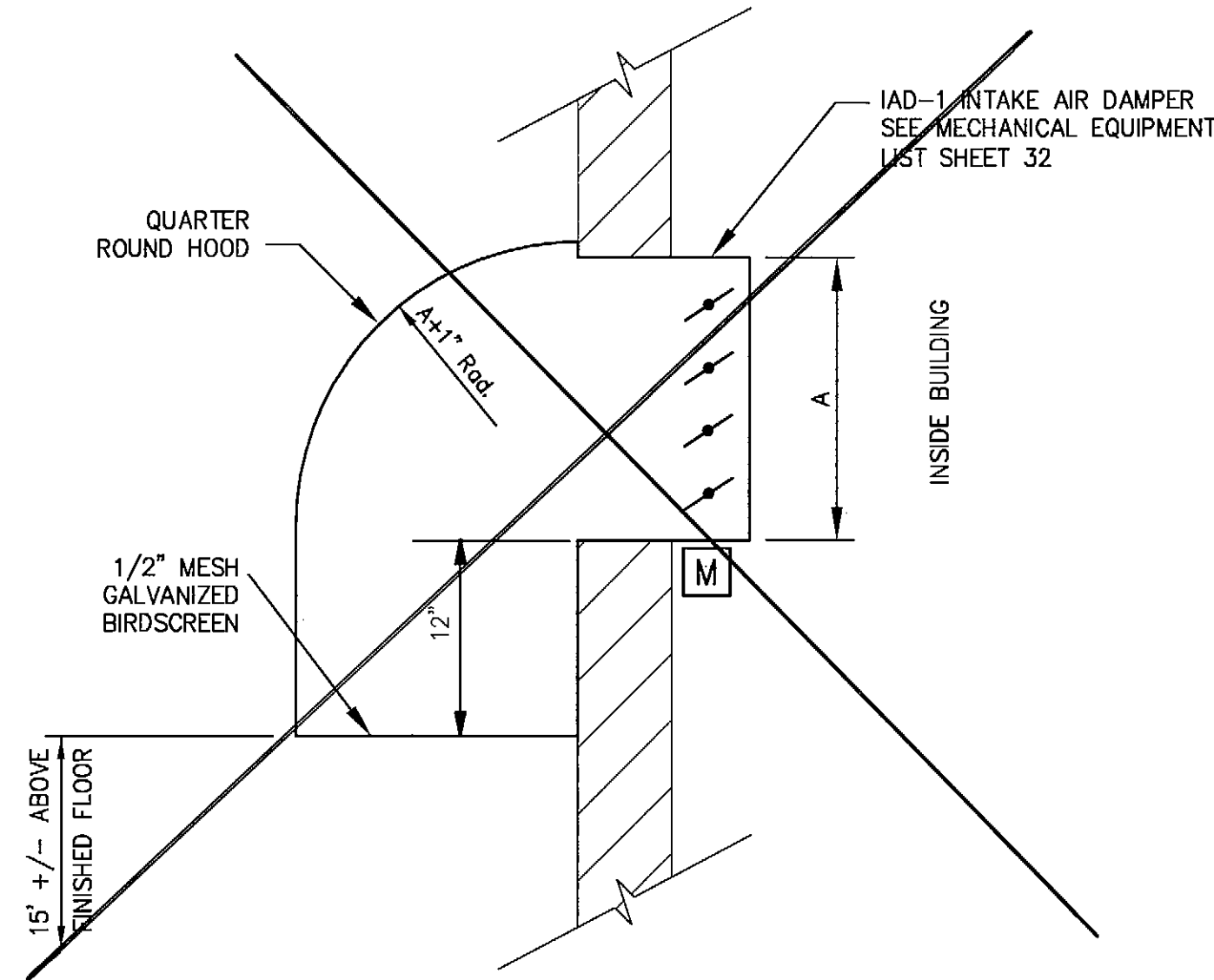
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1 FUEL PIPING AND MECHANICAL LAYOUT PLAN

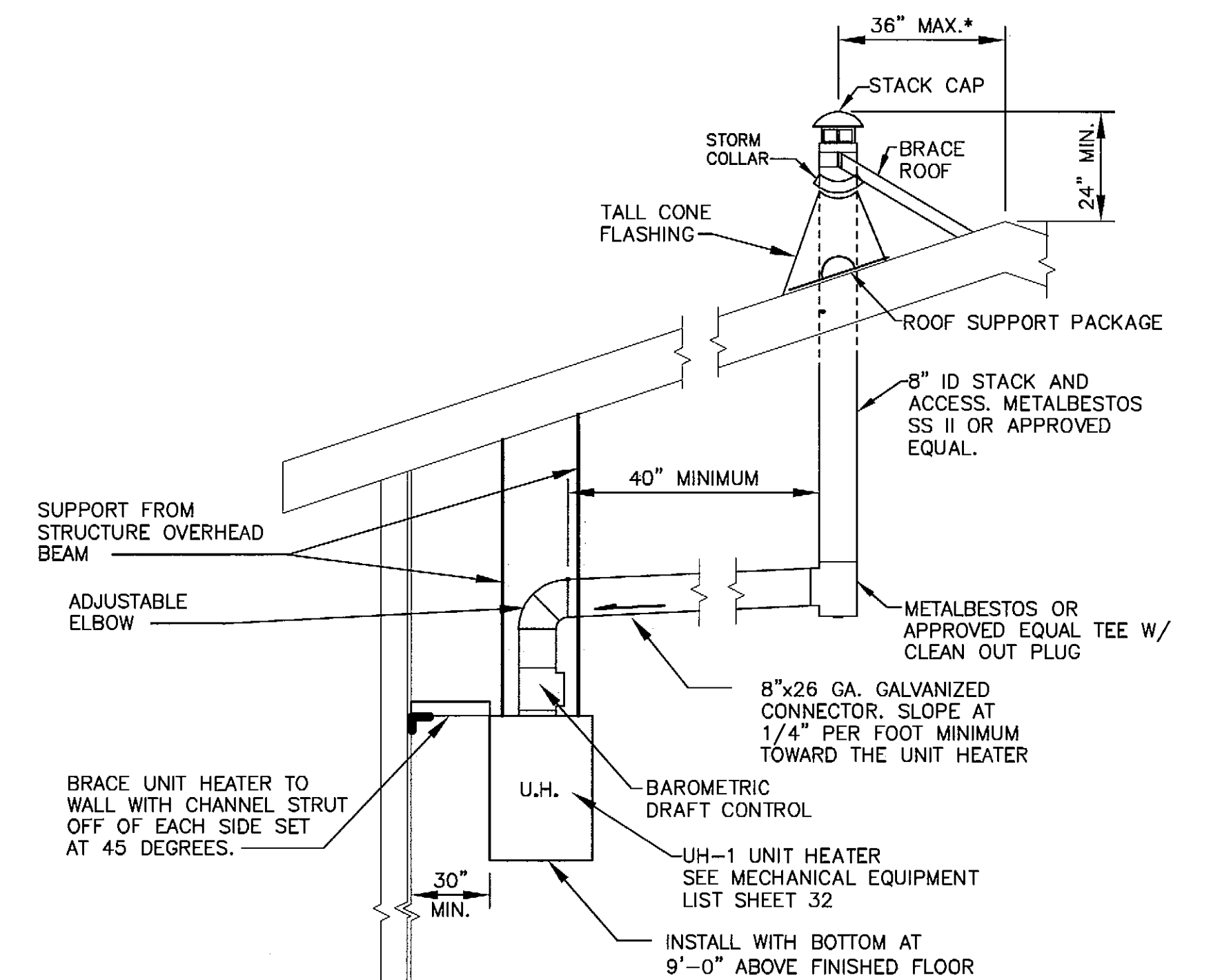


2 EF-1 EXHAUST FAN DETAIL



3 IAD-1 INTAKE AIR DAMPER HOOD DETAIL

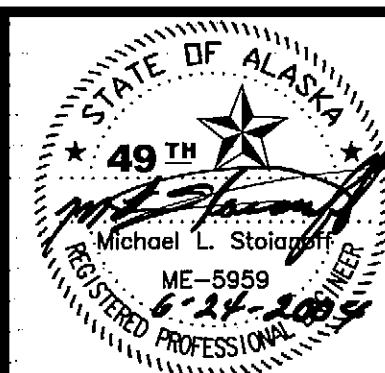
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	BALL VALVE
	FUSIBLE VALVE
	CHECK VALVE
	TEE
	ELBOW
	1/2" FLEXIBLE LINE
	1" FLEXIBLE LINE
F	FUEL CIRCUIT (SHEET 12)
FOS	BLACK IRON FUEL SUPPLY LINE
FOR	BLACK IRON FUEL RETURN LINE
V	BLACK IRON VENT LINE
AIR	BLACK IRON AIR LINE



NOTE
UNIT HEATERS MAY, WITH APPROVAL OF THE ENGINEER,
BE EXHAUSTED THROUGH THE BACK WALL.

4 UNIT HEATER INSTALLATION

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BY	DATE	REVISIONS



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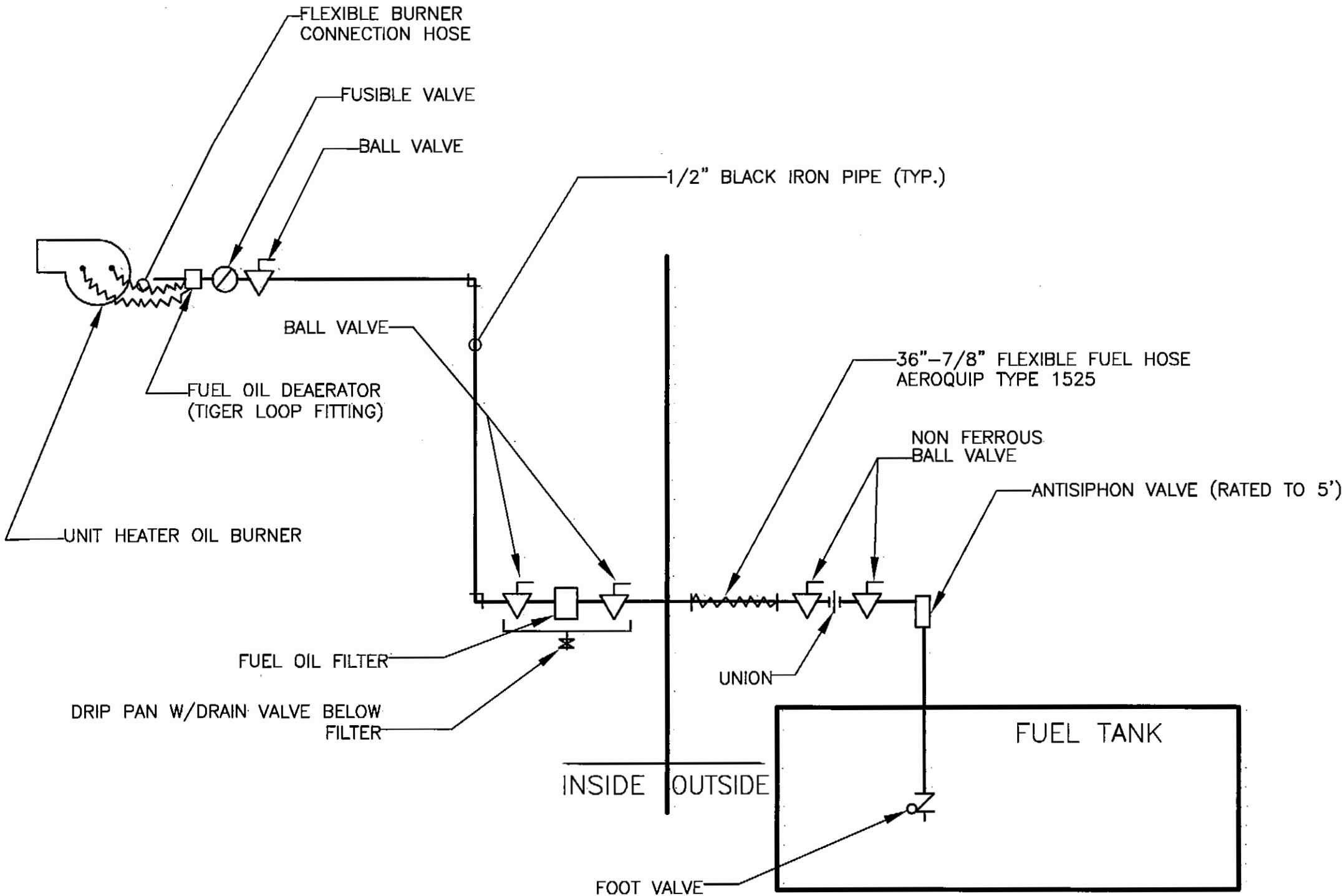
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55598
AIP No. 3-02-0062-0304
MECHANICAL SYSTEM LAYOUT & DETAILS

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OF
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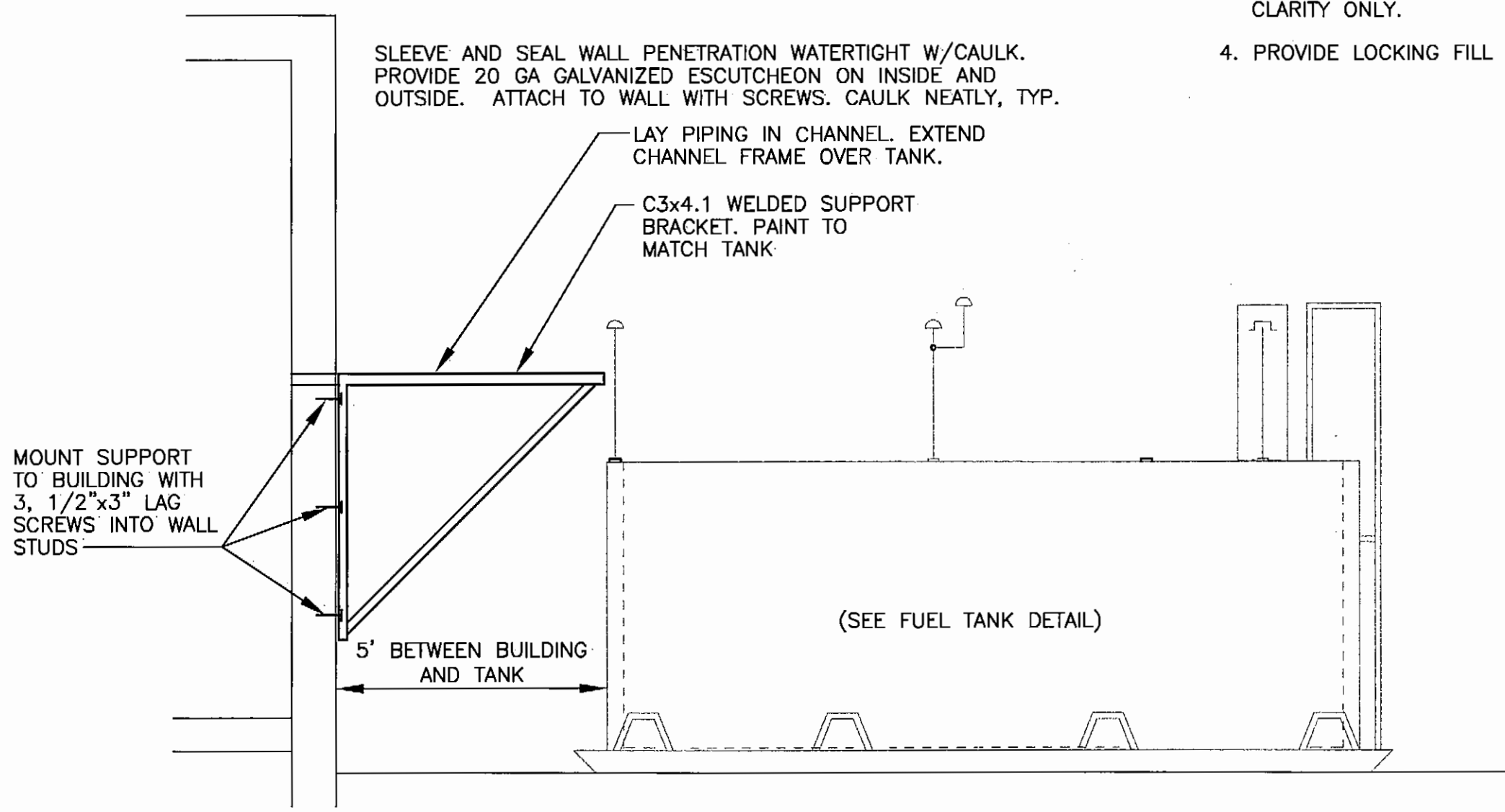
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Designed By: BRH
Checked By: TJS
Drawn By: MGT

MECHANICAL EQUIPMENT LIST	
AC-1 AIR COMPRESSOR	RECEIVER: 60 GALLON MINIMUM CAPACITY: 9.0 ACFM @ 175 PSI MOTOR: 3.0 HP, 1.15 S.F., 230V/60HZ/1PH AUTOMATIC CONDENSATE DRAIN CRANKCASE HEATER LOW OIL LEVEL CUTOUT AIR FILTER & PRESSURE REGULATOR
F-1 PADDLE FAN	DIAMETER: 36-INCH CAPACITY: 12,500 CFM @ 395 RPM MOTOR: 78-VOLT-AMPS @ 120V/60HZ/1PH CONTROLS: LINE VOLTAGE THERMOSTAT BASIS OF DESIGN*: FAN: MAKE: GRAINGER-DAYTON MODEL: STOCK No. 4C852 THERMOSTAT: MAKE: GRAINGER MODEL: STOCK No. 2E728
EF-1 EXHAUST FAN	SIZE: 20-INCH, BELT DRIVE CAPACITY: 2011 CFM @ 1/4-INCH H2O S.P. / 0.27 HP 13.5 SONES @ 982 RPM 1800 CFM @ 800 RPM MOTOR: 1/4 HP @ 115V/60HZ/1PH CONTROLS: END SWITCH ON IAD-1 ADDITIONAL REQUIREMENTS: GRAVITY BACK DRAFT DAMPER OSHA MOTOR GUARD BASIS OF DESIGN*: MAKE: GREENHECK MODEL: SBE-1H20-4
UH-1 UNIT HEATER	FUEL: #1 DIESEL/FUEL OIL CONSUMPTION RATE: 1.65 GPH INPUT: 231 MBTUH OUTPUT: 184 MBTUH FAN: 3200 CFM, THROW 56-FEET MOTOR: 1/4 HP, 1140 RPM, 115V/60HZ/1PH CONTROLS: PROGRAMMABLE THERMOSTAT BASIS OF DESIGN*: MAKE: MODINE MODEL: POH185
IAD-1 INTAKE AIR DAMPER	20"Wx16"H CONTROL DAMPER W/ 18 GAUGE GALVANIZED STEEL BLADES. PRESSURE DROP AT 1800 CFM, -0.123 INCH H2O. CLOSED DAMPER LEAKAGE -2.0 CFM PER SQ. FT. @ 0.1 INCH H2O S.P. ACTUATOR: 120-VOLT ELECTRIC OPEN SPRING CLOSE. CONTROLS: CARBON MONOXIDE DETECTOR & HOA SWITCH. END SWITCH TURNS ON EF-1 WHEN DAMPER IS OPEN. BASIS OF DESIGN*: MAKE: GREENHECK MODEL: VCD-18

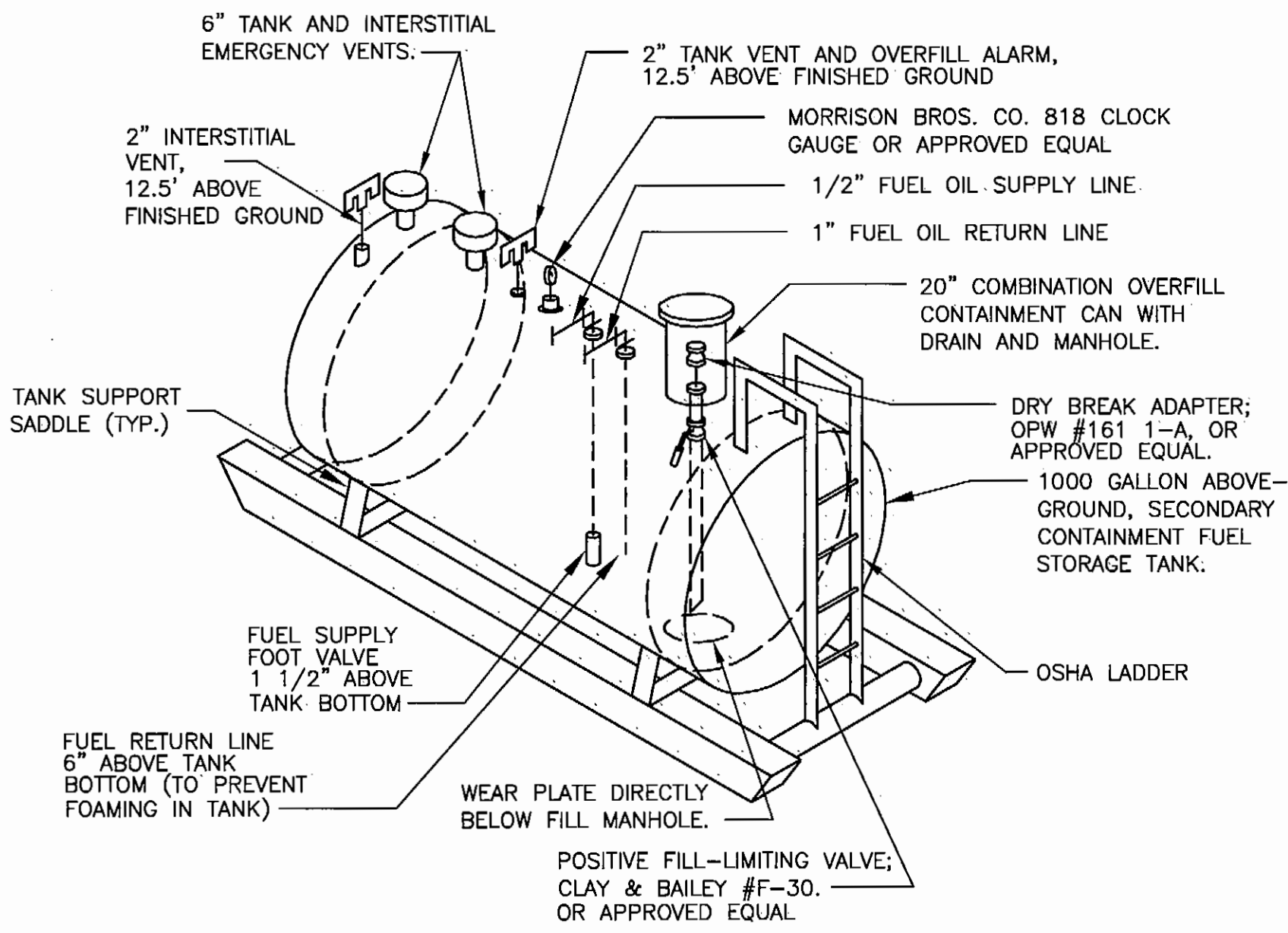
*NOTE: FURNISH AND INSTALL MAKES AND MODELS CITED HERE OR IN THE SPECIFICATIONS OR APPROVED EQUALS.



1 UNIT HEATER FUEL OIL PIPE ONE-LINE DIAGRAM
INSTALL PIPE SUPPORTS SPACED MAX. 12' HORIZONTAL
AND 15' VERTICAL PER IMC TABLE 305.4.



2 FUEL TANK PIPING AND SUPPORT BRACKET



3 FUEL TANK DETAIL

- TANK NOTES:**
1. INSTALL TANK PER NFPA 30, 30A, & 31.
 2. LABEL FUEL OIL FILL PIPE "FUEL OIL FILL".
 3. TANK ROTATED 90° IN THIS VIEW FOR CLARITY ONLY.
 4. PROVIDE LOCKING FILL CAP.

S.R.	3/4/08	AS-BUILT
BY	DATE	REVISIONS



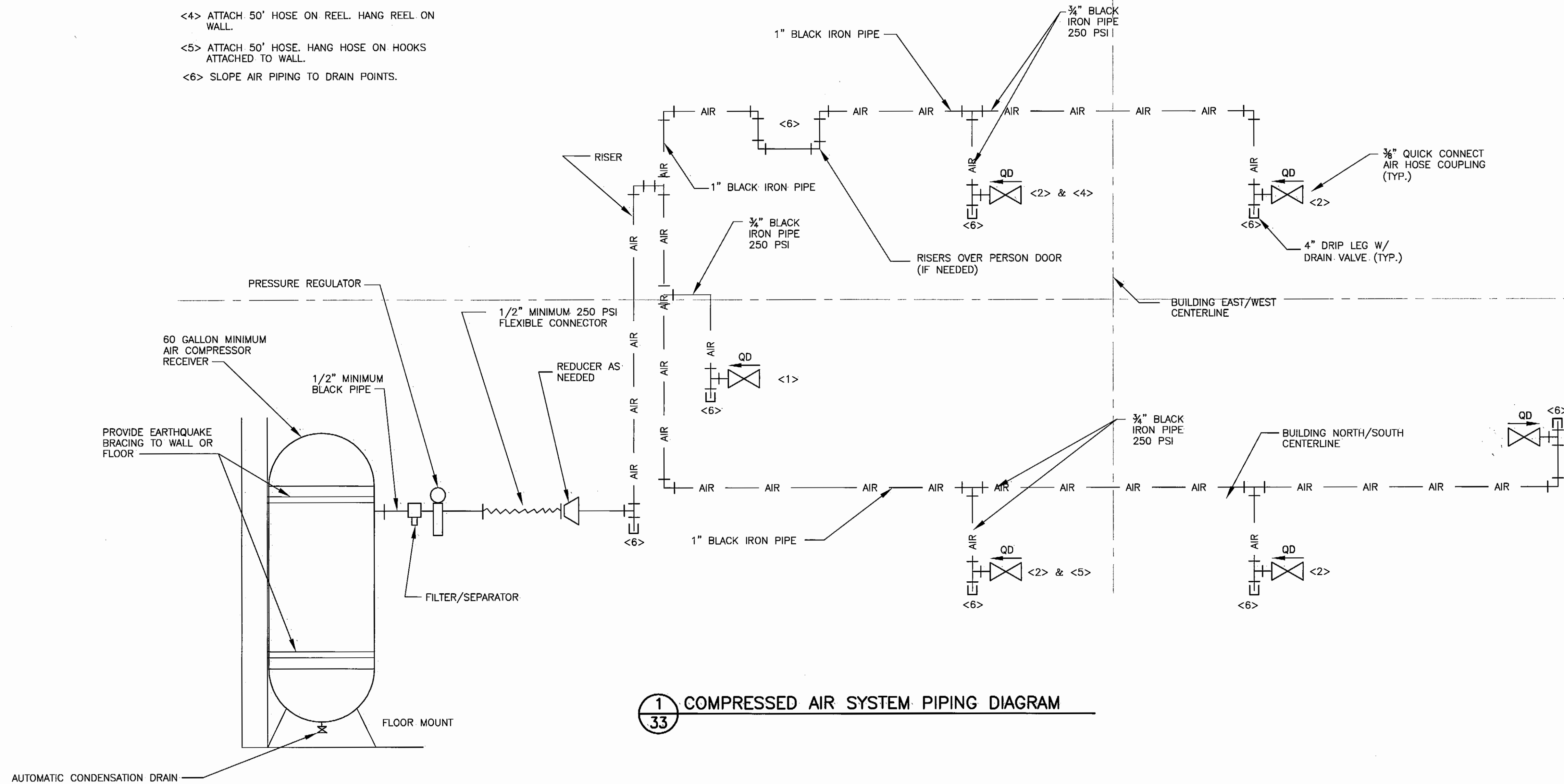
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
CENTRAL REGION

CLARKS POINT AIRPORT
CLARKS POINT, ALASKA
AIRPORT RELOCATION STAGE II
55598
AIP No. 3-02-0062-0304
FUEL OIL PIPING AND
TANK DETAILS

2004
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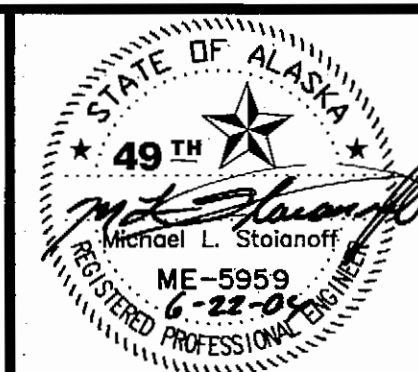
NOTES:

- <1> MOUNT 8" ABOVE WORK BENCH.
<2> CENTER OUTLETS ON LONG WALL CENTERLINE, 48" ABOVE FINISHED FLOOR.
<3> SEE MECHANICAL PLAN FOR AIR OUTLET LOCATIONS.
<4> ATTACH 50' HOSE ON REEL. HANG REEL ON WALL.
<5> ATTACH 50' HOSE. HANG HOSE ON HOOKS ATTACHED TO WALL.
<6> SLOPE AIR PIPING TO DRAIN POINTS.



1 COMPRESSED AIR SYSTEM PIPING DIAGRAM
33

BY	DATE	REVISIONS
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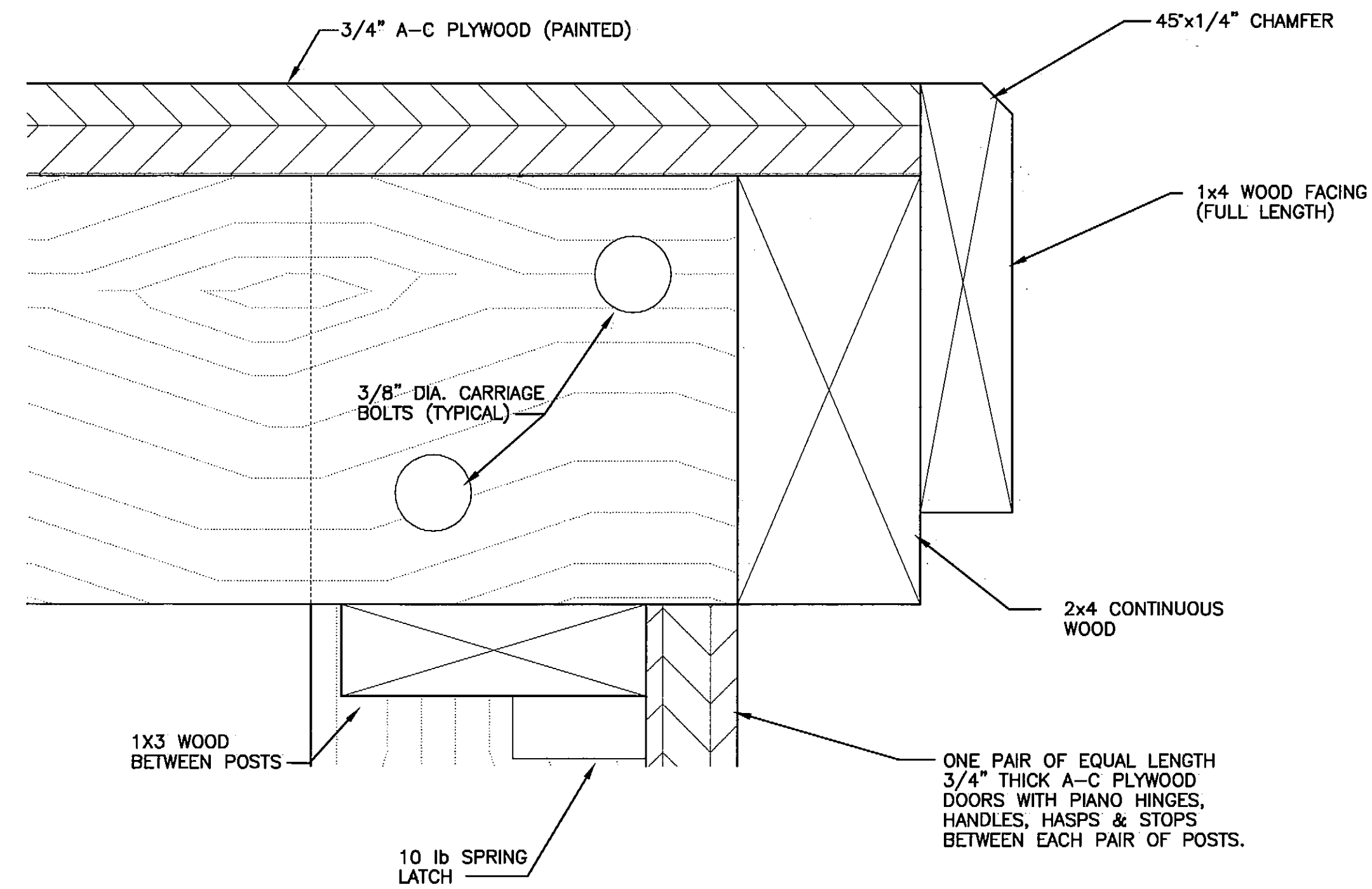
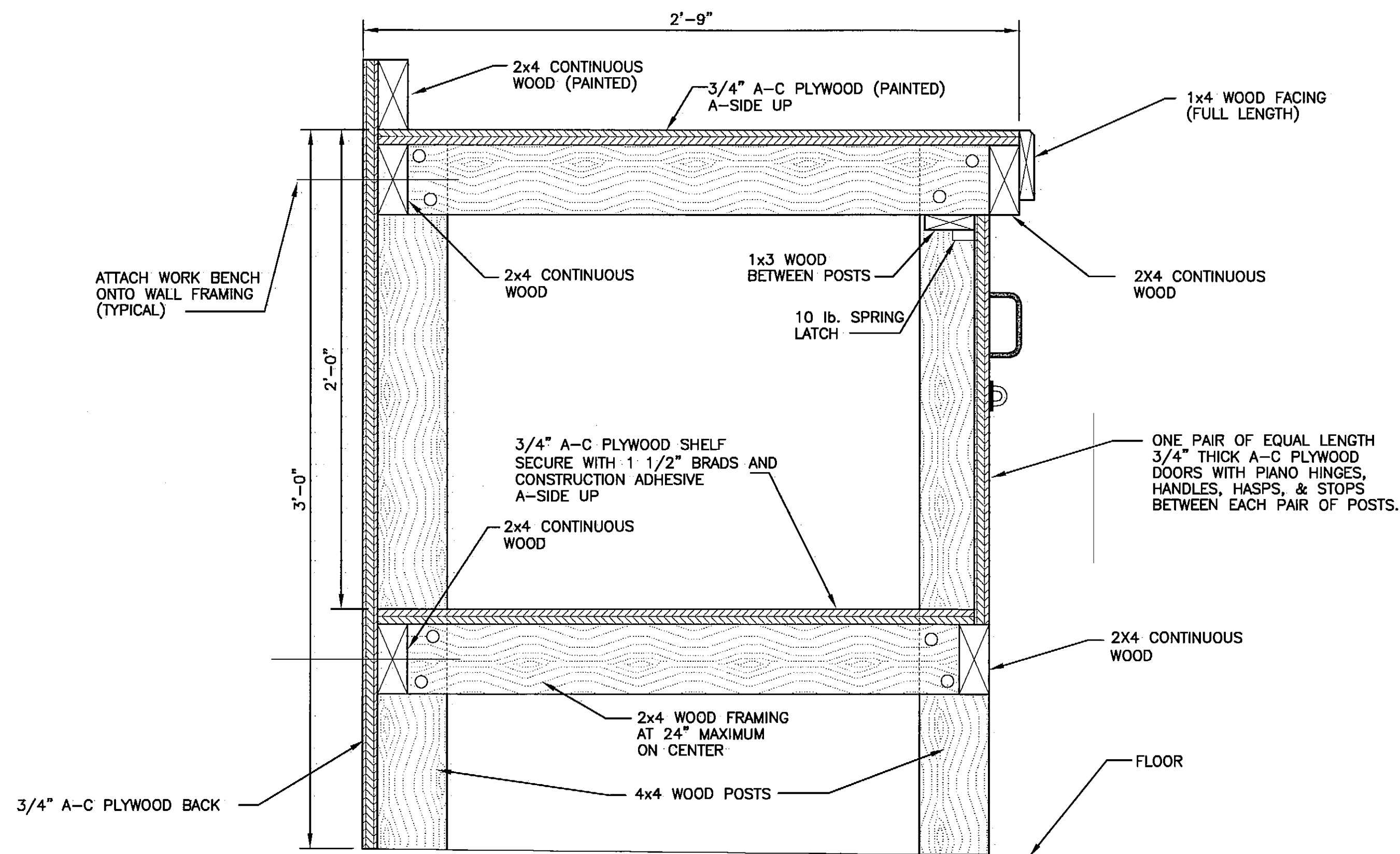


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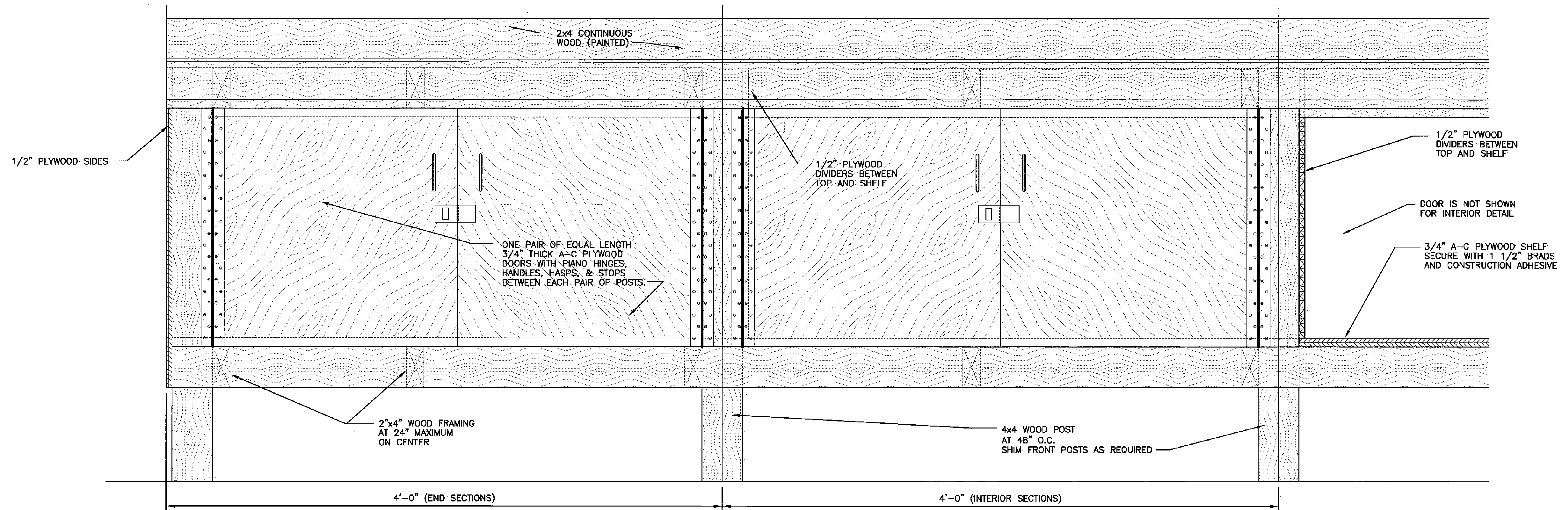
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CLARKS POINT, ALASKA
AIRPORT RELOCATION STAGE II
55598
AIP No. 3-02-0062-0304
COMPRESSED AIR SYSTEM SCHEMATIC

SHEET
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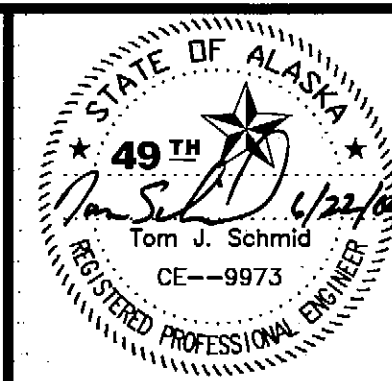
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File:
BRH
Designed By: TJS
Checked By: MGT
Drawn By:



NOTE:
WORKBENCH IS 16' LONG
CENTERED ON BACK WALL



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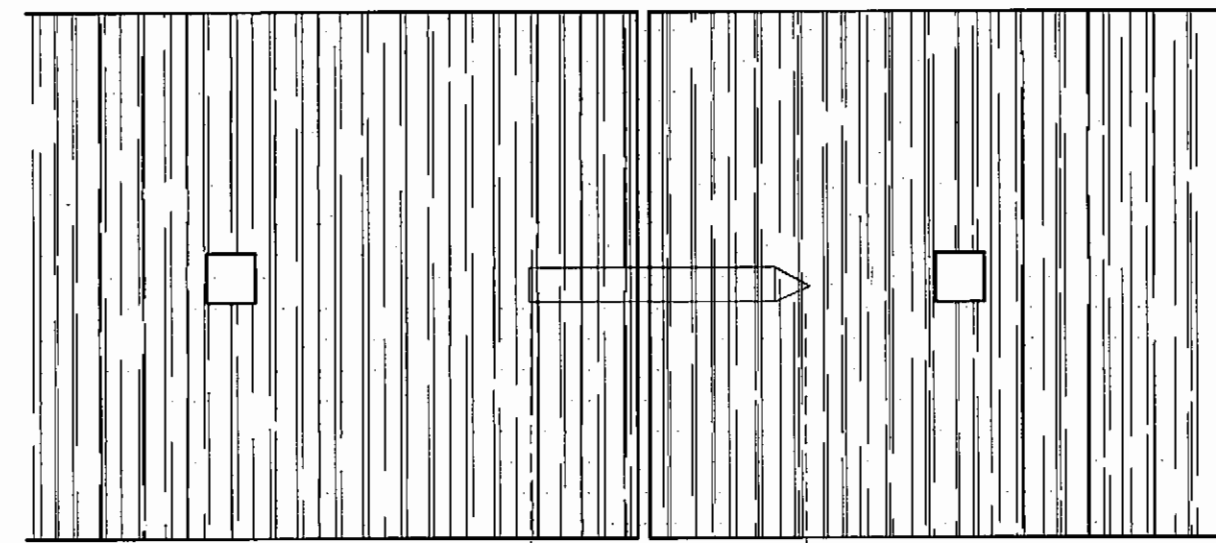


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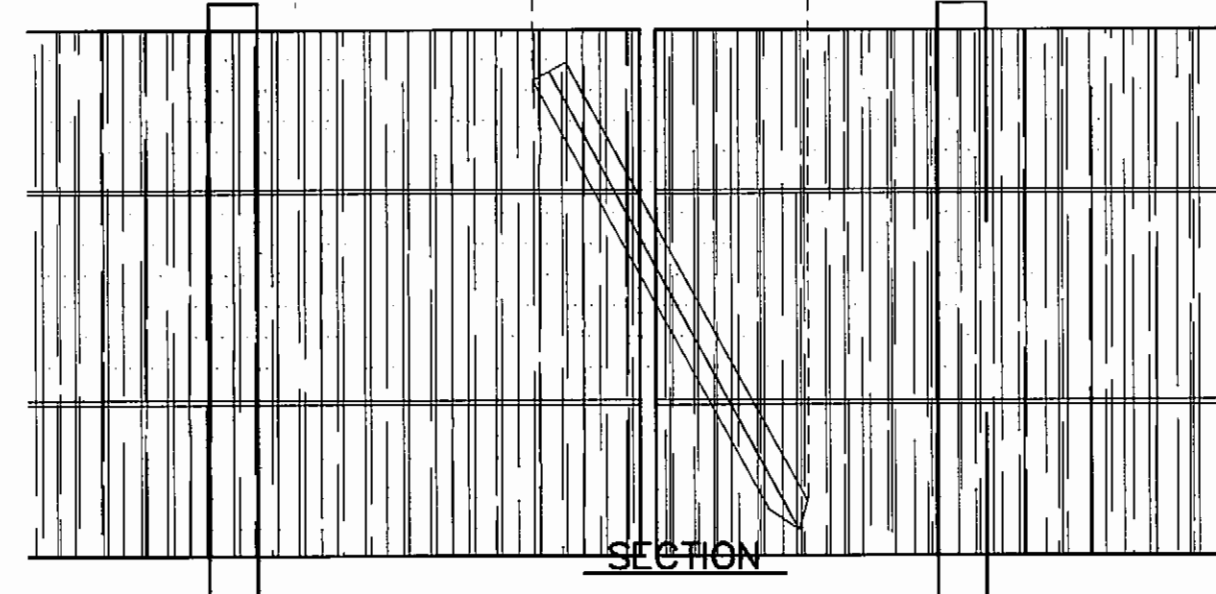
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CLARKS POINT, ALASKA
AIRPORT RELOCATION STAGE II
55598
AIP No. 3-02-0062-0304
SRE BUILDING
WORKBENCH DETAILS

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OF
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PLAN VIEW



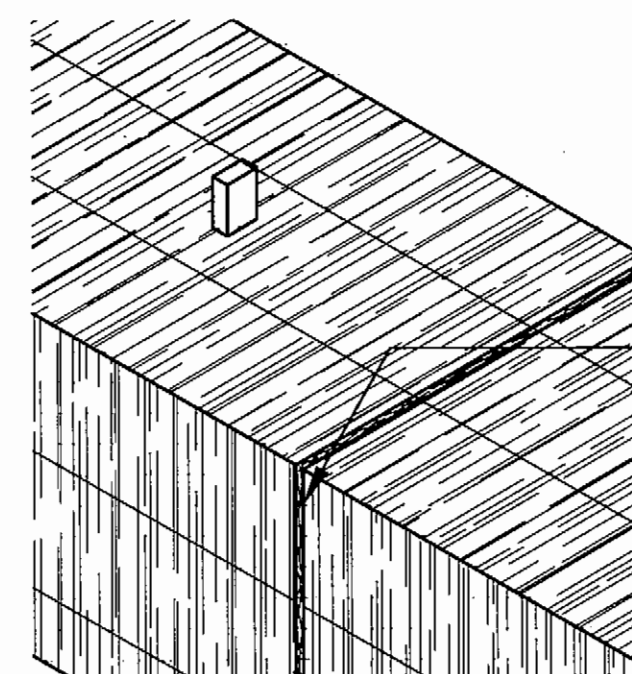
SECTION

JOINT STAKES DETAIL

NOTE

NOT TO SCALE

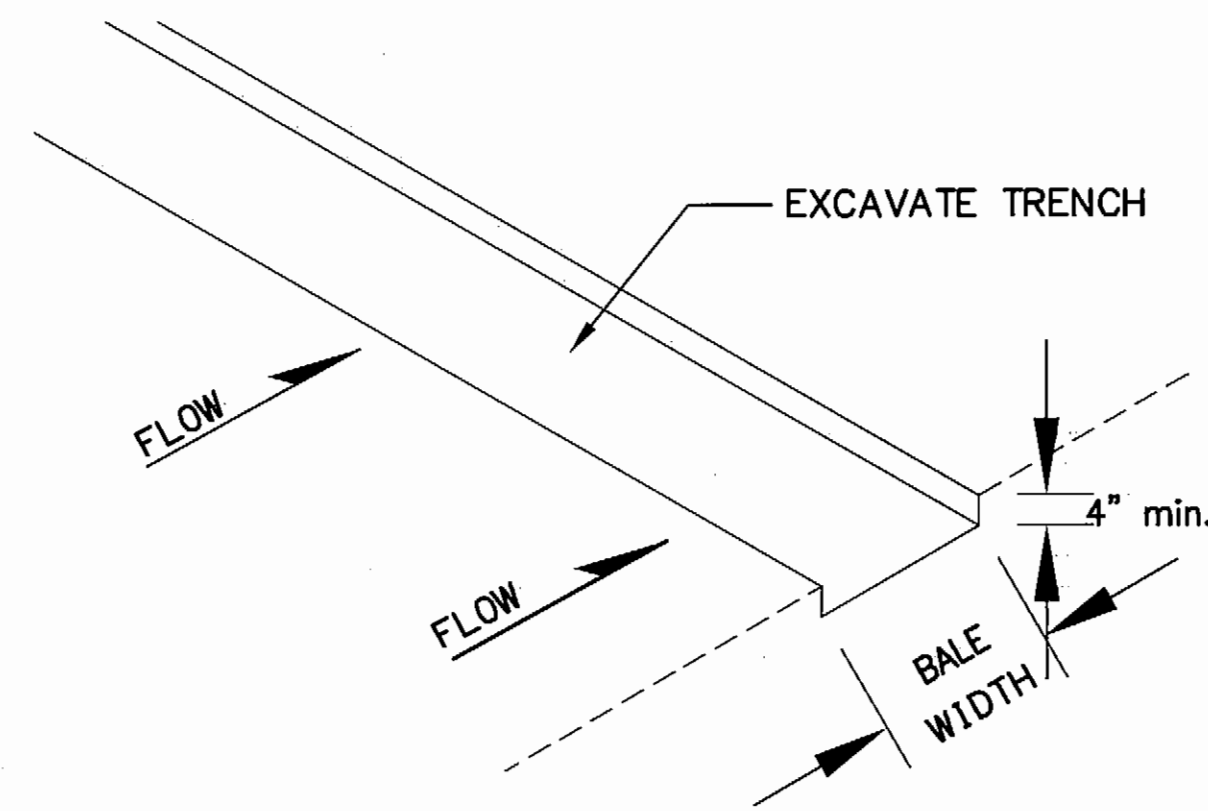
JOINT STAKES ARE DRIVEN DIAGONALLY TO PIN ADJACENT BALES AND PROVIDE TIGHT FIT.



WEDGE LOOSE STRAW BETWEEN BALES

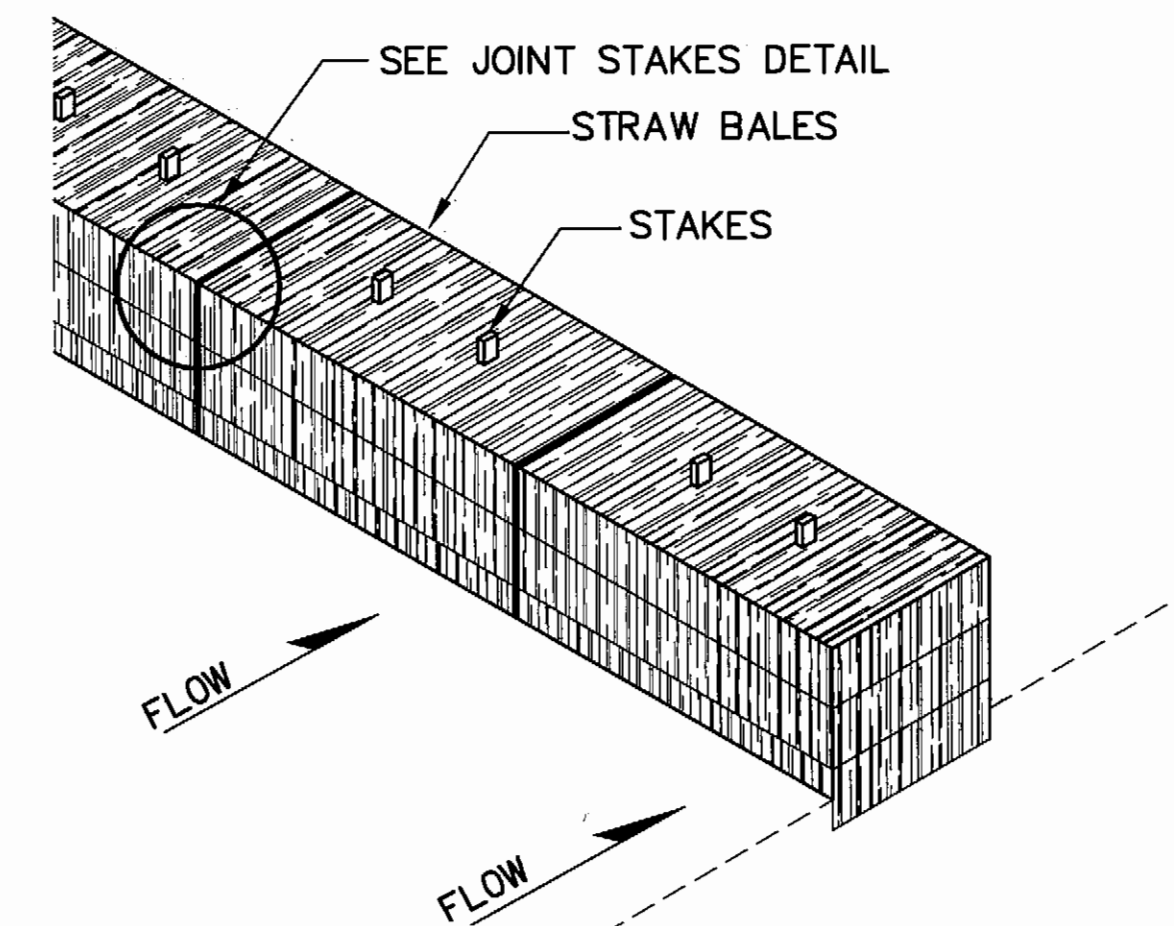
JOINT DETAIL

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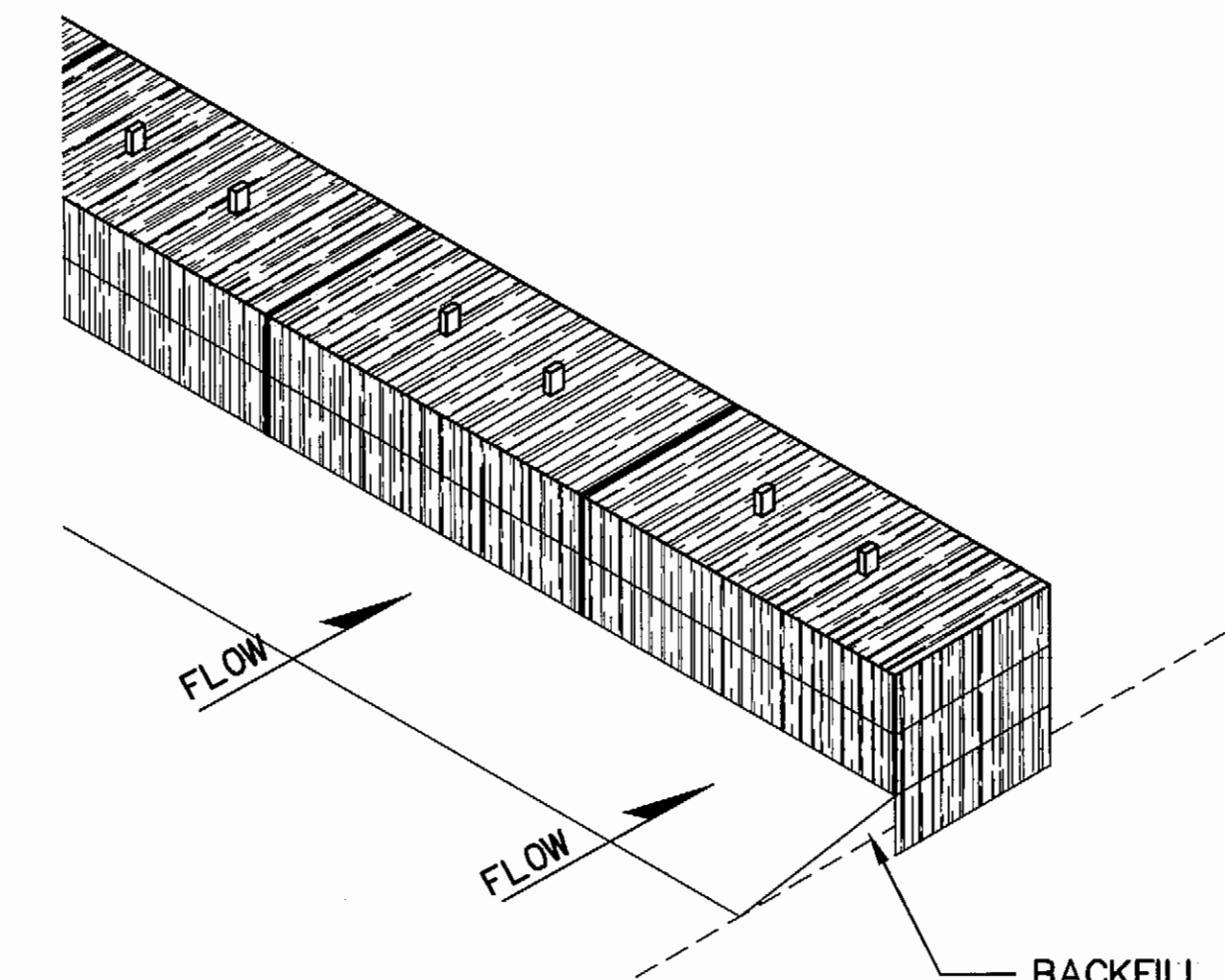
TRENCH DETAIL

NOT TO SCALE



STRAW BALE PLACEMENT DETAIL

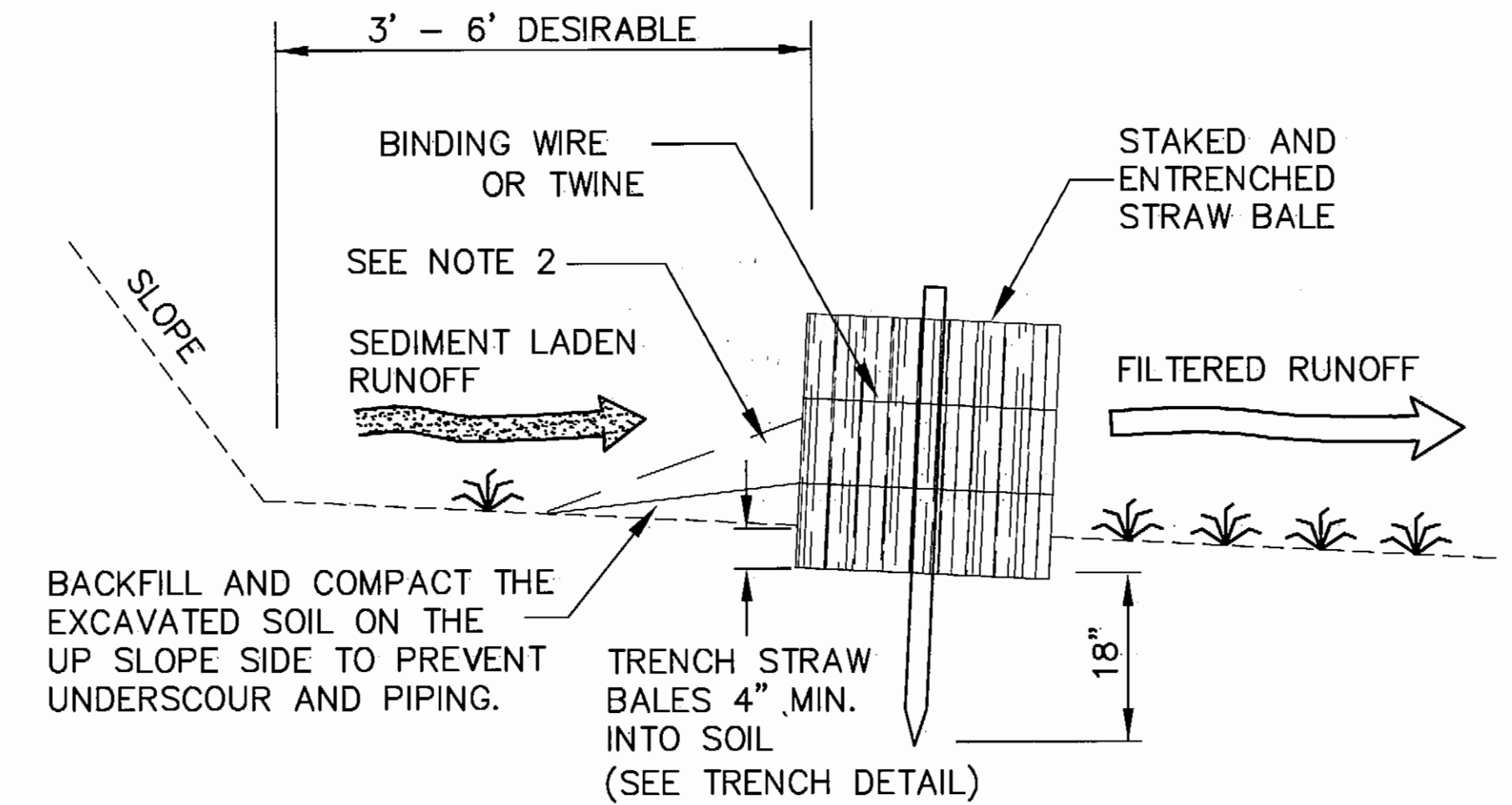
NOT TO SCALE



BACKFILL DETAIL

NOT TO SCALE

BACKFILL AND COMPACT THE EXCAVATED SOIL ON THE UP SLOPE SIDE TO PREVENT UNDERSCOUR AND PIPING.



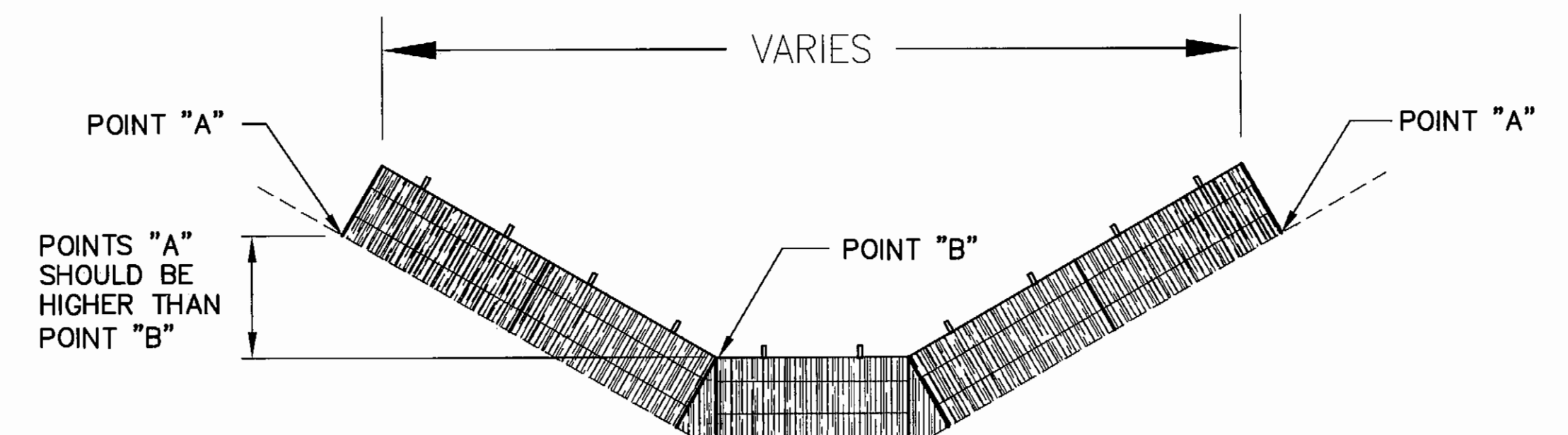
STRAW BALE BARRIER

TYPICAL SECTION

NOT TO SCALE

NOTES:

1. STRAW BALES SHALL BE INSTALLED PRIOR TO ANY CONSTRUCTION OTHER THAN SURVEYING. INSTALL BALES SUCH THAT TWINE/WIRE IS PARALLEL TO GROUND SURFACE (SEE TYPICAL SECTION).
2. REMOVAL OF TRAPPED SEDIMENT TO AN AREA NOT SUBJECT TO EROSION IS REQUIRED WHEN THE SEDIMENT HAS REACHED A HEIGHT OF 6". WHEN APPROVED BY THE ENGINEER, BALES MAY BE LEFT IN PLACE TO DECOMPOSE, OR MAY BE SPREAD AND SEEDED WITH THE ACCUMULATED SEDIMENT.



ELEVATION DETAIL

NOT TO SCALE

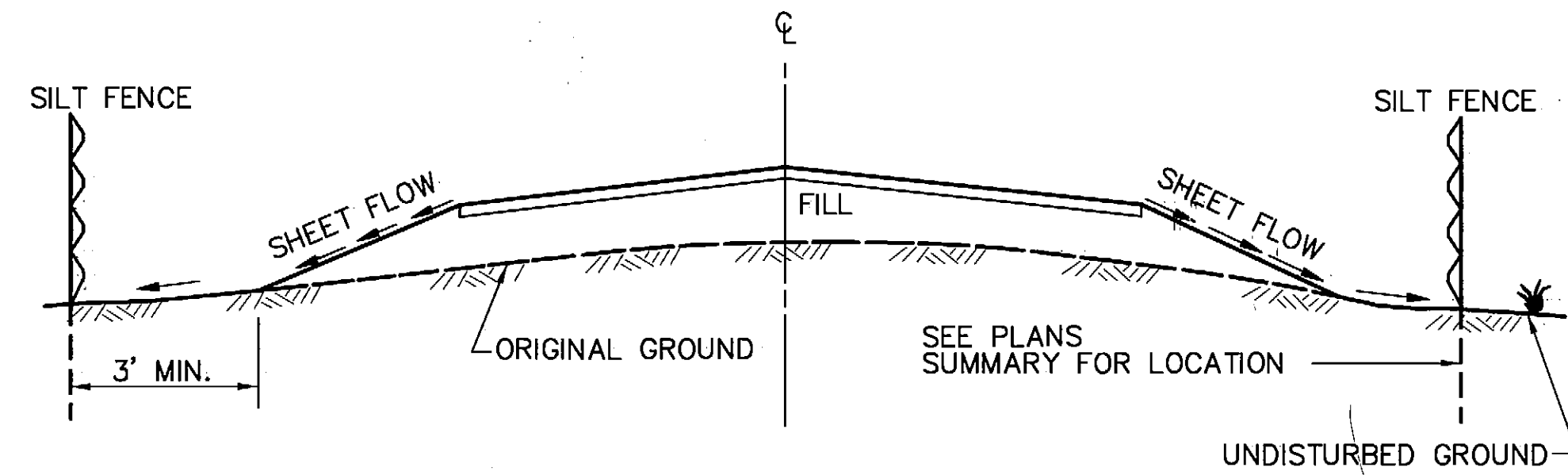
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DATE			
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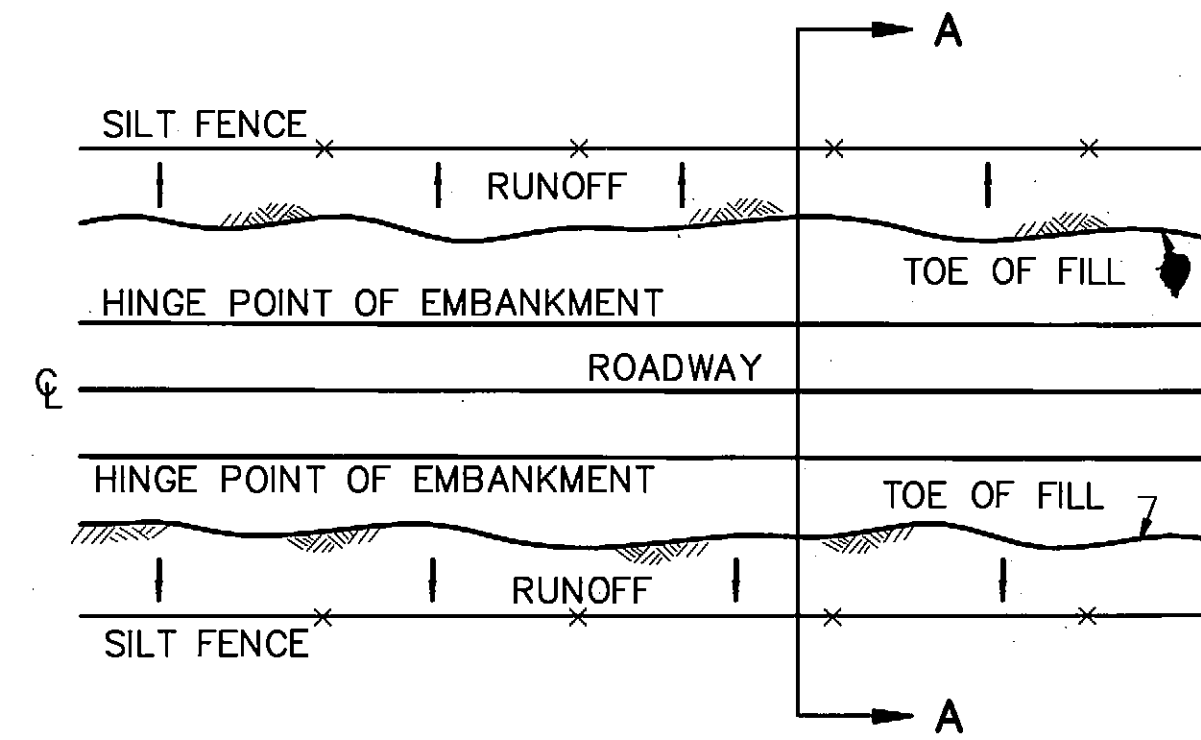
CLARKS POINT AIRPORT
 CLARKS POINT, ALASKA
 AIRPORT RELOCATION STAGE II
 55598
 AIP No. 3-02-0062-0304
 EROSION CONTROL SYSTEM
 STRAW BALE DETAILS

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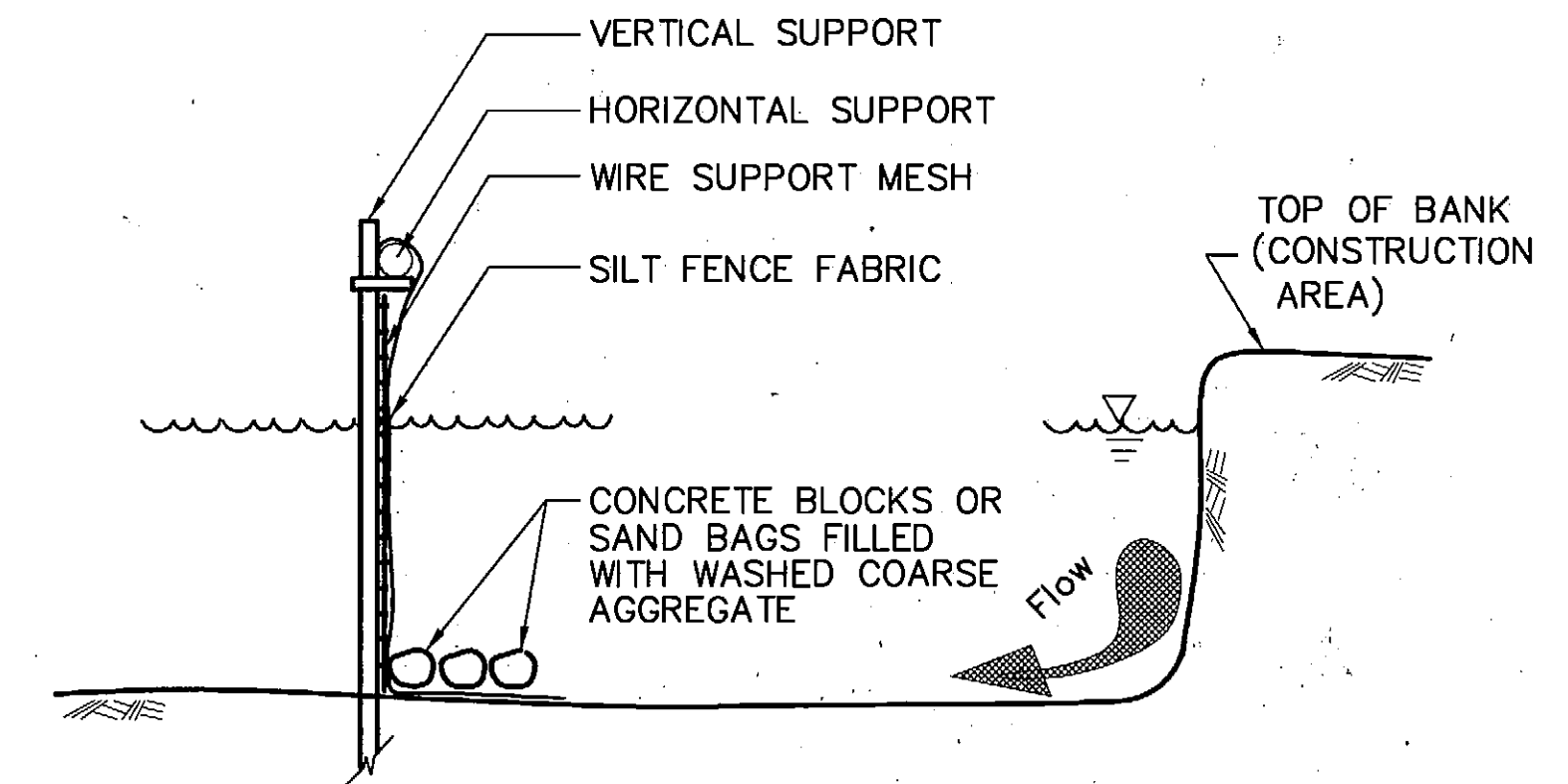
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Designed By: Checked By: Drawn By:



SECTION A-A



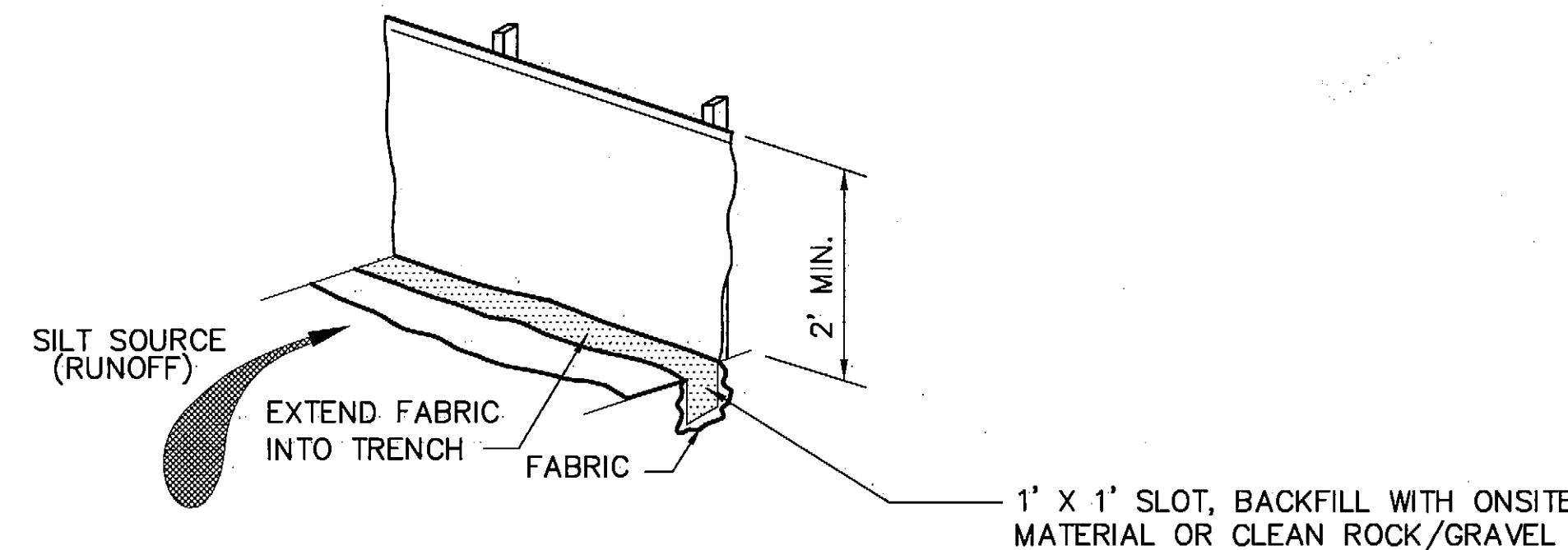
PLAN VIEW



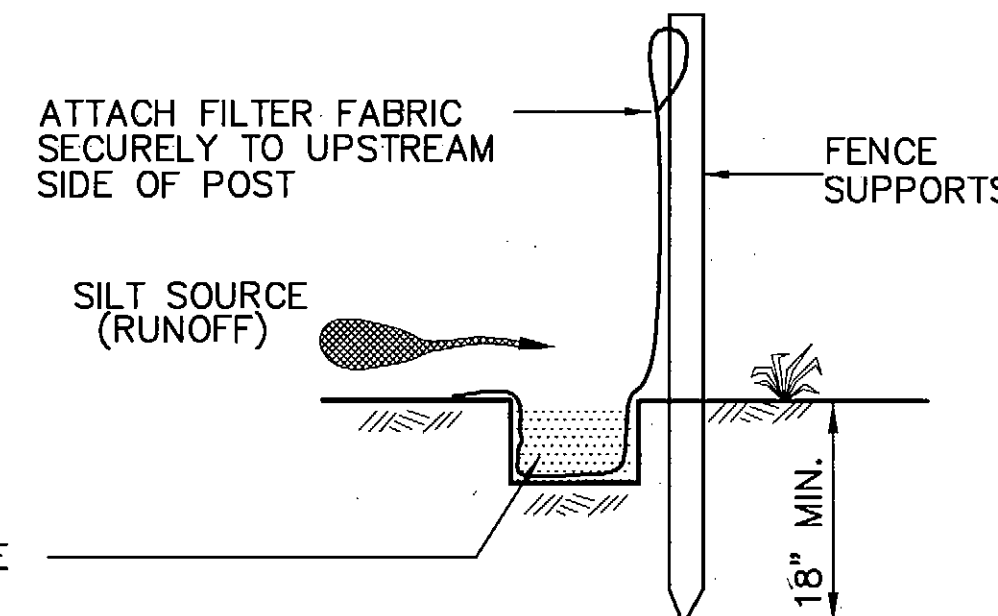
CROSS SECTION VIEW

GENERAL NOTES:

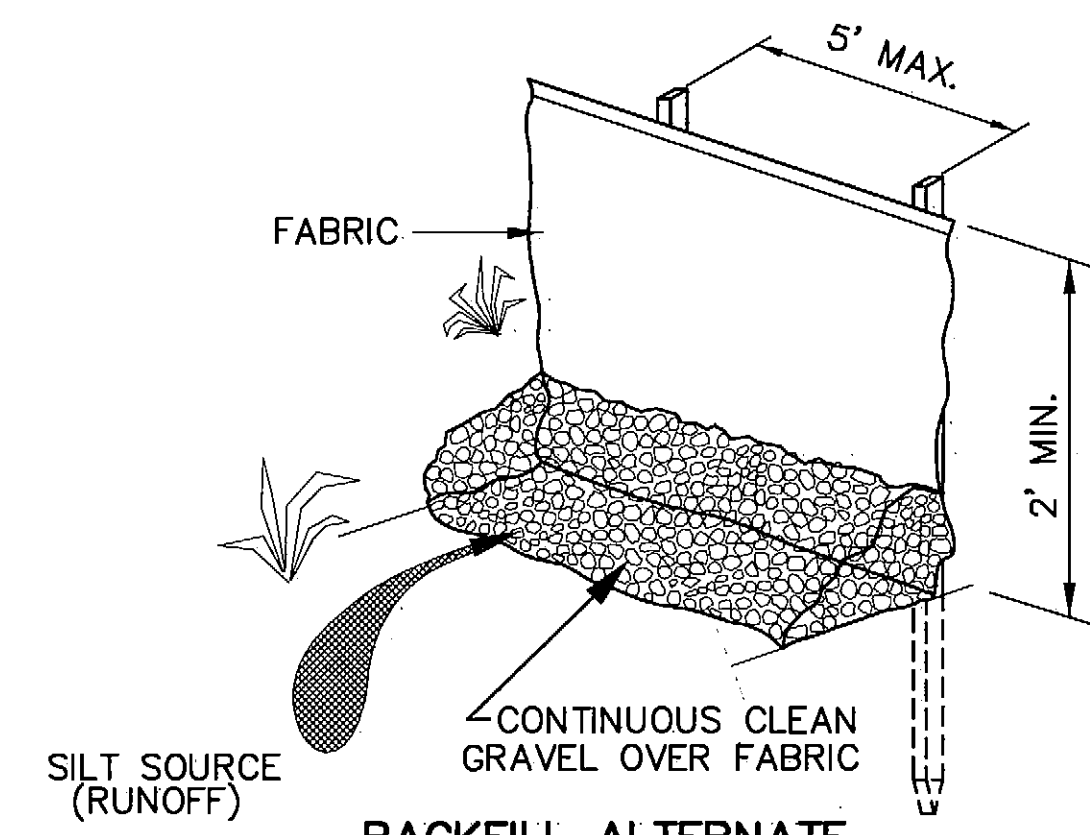
1. INSTALLATION AND APPLICATION SHALL BE IN ACCORDANCE WITH THE PRACTICES AS OUTLINED IN THE EROSION AND SEDIMENT CONTROL PLAN.
2. FILTER FABRIC SHALL BE OVERLAPPED 6" AT FENCE SUPPORTS.
3. FILTER FABRIC SHALL BE TAUT, NOT LOOSE OR FOLDED.
4. THE CONTRACTOR SHALL INSPECT AND REPAIR FENCE AFTER EACH STORM EVENT.
5. SILT FENCE SHALL BE PLACED ON SLOPE CONTOURS TO MAXIMIZE PONDING EFFICIENCY.



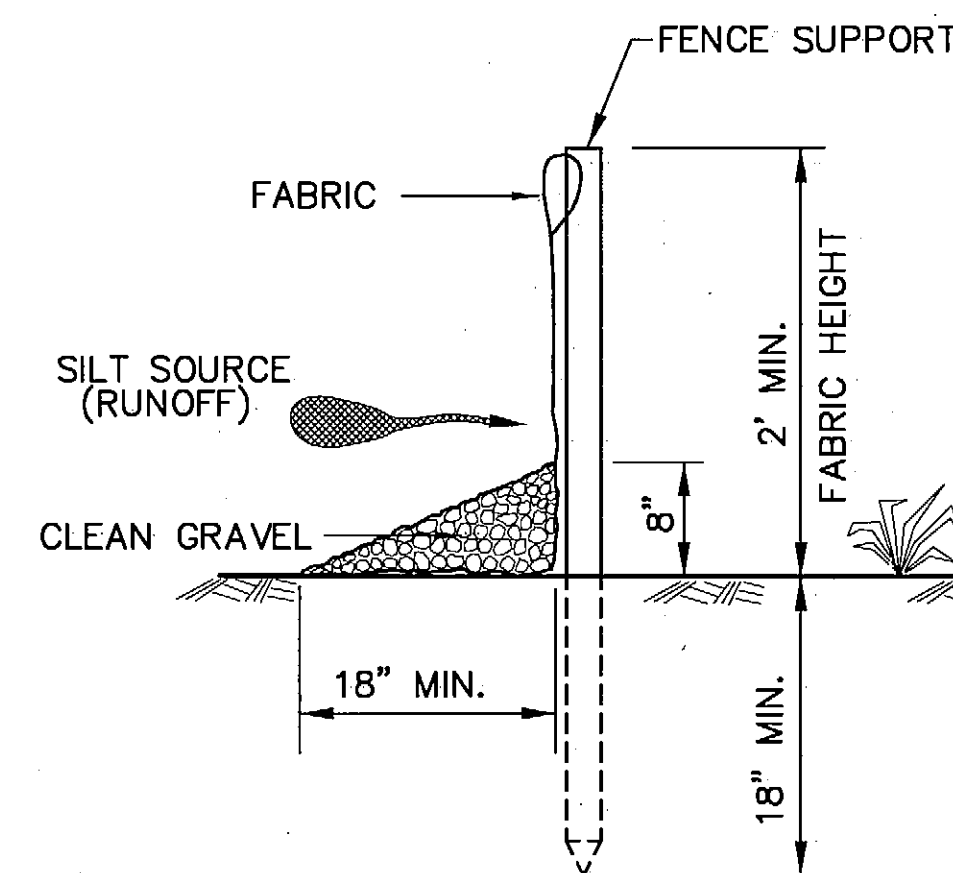
TRENCH ALTERNATE



CROSS SECTION VIEW



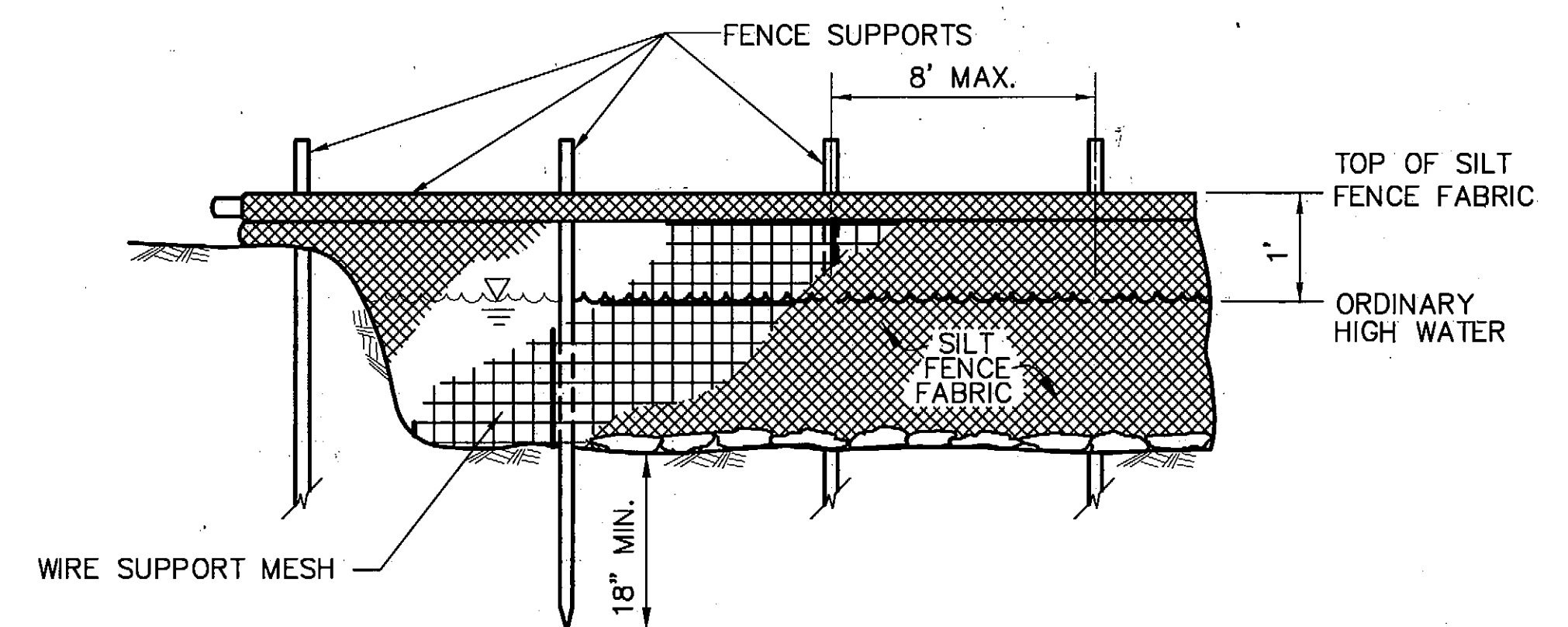
BACKFILL ALTERNATE



CROSS SECTION VIEW

FOR USE ON LAND

1. FENCE SHALL BE PLACED AT LEAST 3' FROM THE TOE OF EMBANKMENT OR EXCAVATION AREAS, OR AS DIRECTED BY THE ENGINEER.
2. ACCUMULATION OF SEDIMENT BEHIND SILT FENCE SHALL BE REMOVED WHEN DEPTH REACHES 6". REMOVED SEDIMENT SHALL BE DEPOSITED TO AN AREA THAT WILL NOT CONTRIBUTE SEDIMENT OFF-SITE AND CAN BE PERMANENTLY STABILIZED.



TYPICAL

FOR USE IN WATER

1. SECURE THE ENDS OF SILT FENCE TO THE BANK.
2. SILT FENCE FRAMEWORK SHALL BE FINISHED 2" X 2" WOOD, 3" DIAMETER WOOD, #6 REBAR WITH 2" PVC SLEEVES, 3/4" IRON PIPE, OR OTHER POSTS CAPABLE OF SUPPORTING THE INSTALLATION, AS APPROVED BY THE ENGINEER.
3. THE WIRE MESH SUPPORT SHALL BE WWF 6" X 6", W1 X W1 OR AS APPROVED BY THE ENGINEER.
4. FENCE ANCHORED IN STANDING WATER SHALL HAVE THE BOTTOM ANCHORED WITH SANDBAG OR CONCRETE BLOCKS AS DETAILED ABOVE.

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CLARKS POINT AIRPORT
CLARKS POINT, ALASKA
AIRPORT RELOCATION STAGE II
55598
AIP No. 3-02-0082-0304
EROSION CONTROL SYSTEM
SILT FENCE DETAILS

SHEET
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